CITY OF DE PERE

PROJECT 20-06

CONCRETE STREET REPAIRS

BID DATE: JANUARY 30, 2020 @ 1:00 PM

Bid documents, including plans and specifications, are available for download at www.QuestCDN.com. The QuestCDN website can also be accessed through the City website at www.de-pere.org. On the homepage, click on the Projects Icon in the middle of the page. Download cost is \$15 for each contract. Bidding documents may be viewed on the QuestCDN website or at the Municipal Service Center, 925 S. Sixth Street, De Pere, WI 54115.

Bid Tabs must be verified by staff prior to posting and will be available for viewing on the website within 7 days following the bid opening. Award information will be pending until approved by the Common Council.

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JANUARY 9, 2020 – JANUARY 16, 2020

CITY OF DE PERE

ADVERTISEMENT TO BID

PROJECT 20-06

CONCRETE STREET REPAIRS

Sealed proposals will be received by the Board of Public Works of the City of De Pere at the Municipal Service Center, 925 South Sixth Street, De Pere, Wisconsin 54115, until 1:00 PM, Thursday, January 30, 2020, at which time they will be publicly opened and read aloud.

Project 20-06 for which proposals are being sought includes the following approximate quantities:

- 1,520 SY New (8-Inch) Concrete Pavement with Integral Curb
- 1,570 SY Pulverize Asphaltic Concrete Pavement and Aggregate Base Course
- 1,000 SY Remove and Replace (8-Inch) Concrete Pavement
- 700 LF Remove and Replace (24-Inch) Integral Curb and Gutter
- 820 LF Concrete Pavement Partial Depth Repair
- 46,700 SF Colored Concrete Sealing

Complete digital project bidding documents are available for viewing and/or downloading at www.QuestCDN.com or may be examined at the office of the Director of Public Works. Digital plan documents may be downloaded for \$15 by inputting Quest project #6645959 on Quest's Project Search page. The QuestCDN website can also be accessed through the City website at www.de-pere.org. On the homepage, click on the Projects icon in the center of the page.

Each proposal shall be accompanied by a certified check or bid bond in an amount equal to five percent (5%) of the bid, payable to the City of De Pere, as a guarantee that if the bid is accepted, the bidder will execute a contract and furnish a contract bond as set forth in the General Conditions of the City of De Pere. In case the bidder fails to file such contract and bond, the amount of the check or bid bond shall be forfeited to the City of De Pere as liquidated damages.

The letting of the contract is subject to the provisions of the following Wisconsin Statutes:

Section 62.15 regarding Public Works.

Section 66.0901(3) regarding Prequalification of Contractor.

Each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works no later than 4:00 PM, Monday, January 27, 2020. Prospective bidders who have previously submitted such forms subsequent to January 1, 2020 will not be required to separately submit such form for this project.

1/9/2020 00 11 13-1 Advertisement to Bid

Project 20-06 Concrete Street Repairs

The City of De Pere reserves the right to reject any or all bids, to waive any informalities in bidding and to accept any proposal which the Common Council deems most favorable to the interest of the City of De Pere.

City of De Pere

Dated this 9th day of January 2020.

Board of Public Works City of De Pere Eric Rakers, P.E. City Engineer

Project 20-06

1/9/2020 00 11 13-2 Advertisement to Bid

SECTION 00 21 13

INSTRUCTIONS TO BIDDERS

ARTICLE 1 – DEFINED TERMS

1.1 Terms used in these Instructions to Bidders have the meanings indicated in the General Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below: None

ARTICLE 2 – COPIES OF BIDDING DOCUMENTS

- 2.1 Complete sets of the Bidding documents in the number and for the deposit sum, if any, stated in the Advertisement to Bid may be obtained as stated in the Advertisement for bids.
- 2.2 Complete sets of Bidding Documents shall be used in preparing Bids; Owner does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.
- 2.3 Owner, in providing the Bidding Documents on the terms stated in the Advertisement for Bids, does so only for the purpose of obtaining Bids for the Work and does not confer a license or grant for any other use.

ARTICLE 3 – QUALIFICATIONS OF BIDDERS

3.1 In accordance with Section 66.0901(3), each bidder shall pre-qualify by submitting proof of responsibility on forms furnished by the Director of Public Works. Such forms shall be filed with the Director of Public Works as stated in the Advertisement for Bids. Prospective bidders who have previously submitted such forms after January 1st of this year will not be required to separately submit such form for this project.

ARTICLE 4 – EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA AND SITE

- 4.1 Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated conditions appear in the General Conditions.
- 4.2 Underground Facilities
 - A. Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.
- 4.3 Subsurface and Physical Conditions
 - A. The technical data includes:
 - 1. Those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site.

1/9/2020 00 21 13-1 Instructions to Bidders

- 2. Those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except underground Facilities).
- 3. No reports of explorations or tests of subsurface conditions at or contiguous to the Site, or drawings of physical conditions relating to existing surface or subsurface structures at the Site, are known to Owner.
- B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Contractor may not rely upon or make any claim against Owner, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:
 - 1. the completeness of such reports and drawings for Contractor's purposes, including but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 - 2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - 3. Any Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.
- 4.4 On request, Owner will provide Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable Laws and Regulations relative to excavation and utility locates.
- 4.5 Reference is made to Section 01 10 00: Summary of Work, for work that will be completed and for the identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these Bidding Documents. On request, Owner will provide to each Bidder for examination access to or copies of Contract Documents (other portions thereof related to price) for such other work.
- 4.6 It is the responsibility of each Bidder before submitting a Bid to:
 - A. Examine and carefully study the Bidding Documents, the other related data identified in the Bidding Documents, and any Addenda;
 - B. Visit the Site and become familiar with and satisfy Bidder as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
 - C. Become familiar with and satisfy Bidder as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work;
 - D. Obtain and carefully study (or accept consequences of not doing so) all examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying any

1/9/2020 00 21 13-2 Instructions to Bidders

- specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents, and safety precautions and programs incident thereto;
- E. Agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents;
- F. Become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- G. Correlate the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents;
- H. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies, that bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder; and
- I. Determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work.
- 4.7 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article 4, that without exception the Bid is premised upon performing and furnishing the Work required by the Bidding Documents and applying any specific means, methods, techniques, sequences, and, procedures of construction that may be shown or indicated or expressly required by the Bidding Documents, that Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in the Bidding Documents and the written resolutions thereof by Engineer are acceptable to Bidder, and that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work.

ARTICLE 5 – SITE AND OTHER AREAS

5.1 The Site is identified in the Bidding Documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor.

ARTICLE 6 – INTERPRETATIONS AND ADDENDA

6.1 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the Bidding Documents. Questions received less than ten days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

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Concrete Street Repairs

6.2 Addenda may be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner and Engineer.

ARTICLE 7 – BID SECURITY

- 7.1 A Bid shall be accompanied by Bid security made payable to Owner in an amount of five percent (5%) of Bidder's maximum Bid price and in the form of a certified check or bank money order or Bid bond (on the form attached) issued by a surety meeting the requirements of the General Conditions. Submittal of a Bid Bond on a form other than the Bid Bond form included in the Bidding Documents may be cause for rejection of Bid.
- 7.2 The Bid security of the Successful Bidder will be retained until such Bidder has executed the Contract documents, furnished the required contract security and met the other conditions of the Notice of Award, whereupon the Bid security will be returned. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within fifteen (15) days after the Notice of Award, Owner may annul the Notice of Award and the Bid security of that Bidder will be forfeited. The Bid security of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner per the General Conditions.
- 7.3 Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within seven days after the Bid opening.

ARTICLE 8 - CONTRACT TIMES

8.1 The number of days within which, or the dates by which, Milestones are to be achieved and the Work is to be substantially completed and ready for final payment are set forth in the Bid Form and Summary of Work.

ARTICLE 9 – LIQUIDATED DAMAGES

9.1 Provisions for liquidated damages are set forth in the General Conditions.

ARTICLE 10 - SUBSTITUTE AND "OR-EQUAL" ITEMS

10.1 The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Bid Form and Summary of Work.

ARTICLE 11 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS

11.1 The Bidder shall submit with the Bid to Owner a list of all such Subcontractors, Suppliers, individuals, or entities proposed for those portions of the Work for which such identification is required. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful

1/9/2020 00 21 13-4 Instructions to Bidders

Bidder to submit a substitute, in which case apparent Successful Bidder shall submit an acceptable substitute, Bidder's Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.

- 11.2 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposed to use acceptable Subcontractors, Suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner subject to revocation of such acceptance after the Effective Date of the Agreement.
- 11.3 Contractor shall not be required to employ any Subcontractor, Supplier, individual, or entity against whom Contractor has reasonable objection.

ARTICLE 12 – PREPARATION OF BID

- 12.1 The Bid form is included with the Bidding documents.
- 12.2 All blanks on the Bid Form shall be completed by printing in ink or by typewrite and the Bid signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each alternative, and unit price item listed therein, or the words "No Bid," "No Change," or "Not Applicable" entered.
- 12.3 A Bid by a corporation shall be executed in the corporate name by the president or a vice-president or other corporate officer accompanied by evidence of authority to sign. The corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporations shall be shown below the seal.
- 12.4 A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown below the signature.
- 12.5 A Bid by a limited liability company shall be executed in the name of the firm by a member and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown below the signature.
- 12.6 A Bid by an individual shall show the Bidder's name and official address.
- 12.7 A Bid by a joint venture shall be executed by each joint venture in the manner indicated on the Bid Form. The official address of the joint venture shall be shown below the signature.
- 12.8 All names shall be typed or printed in ink below the signatures.
- 12.9 The Bid shall contain an acknowledgement of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.

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- **Concrete Street Repairs**
- 12.10 The address and telephone number for communications regarding the Bid shall be shown.
- 12.11 The Bid shall contain evidence of Bidder's authority and qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the Contract. Bidder's state contractor license number, if any, shall also be shown on the Bid Form.

ARTICLE 13 – BASIS OF BID; COMPARISON OF BIDS

13.1 Unit Price

- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Bid Schedule.
- B. The total of all estimated prices will be the sum of the products of the estimated quantity of each item and the corresponding unit price. The final quantities and Contract Price will be determined in accord with the General Conditions.
- C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

ARTICLE 14 – SUBMITTAL OF BID

- 14.1 A Bid shall be submitted no later than date and time prescribed and at place indicated in Advertisement for Bids and shall be enclosed in a plainly marked package with the Project title (and, if applicable, designated portion of the Project for which the Bid is submitted), name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on outside with the notation "BID ENCLOSED." A mailed Bid shall be addressed to City of De Pere, Municipal Service Center, 925 South Sixth Street, De Pere, WI 54115. Electronically transmitted Bids will not be accepted.
- 14.2 See Bid Form for a list of documents typically required to be submitted with the Bid.

ARTICLE 15 - MODIFICATION AND WITHDRAWAL OF BID

- 15.1 A Bid may be modified or withdrawn by an appropriate document duly executed in the manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids.
- 15.2 If within 24 hours after Bids are opened, any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

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City of De Pere

ARTICLE 16 - OPENING BIDS

16.1 Bids will be opened at the time and place indicated in the Advertisement to Bid and, unless obviously non-responsive, read aloud publicly. An abstract of the amounts of the base bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

ARTICLE 17 – BIDS REMAIN SUBJECT TO ACCEPTANCE

17.1 All bids will remain subject to acceptance for the period of time stated in the General Conditions, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 18 – EVALUATION OF BIDS AND AWARD OF CONTRACT

- 18.1 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.
- 18.2 More than one Bid for the same Work from an individual or entity under the same or different names will not be considered. Reasonable grounds for believing that any Bidder has an interest in more than one Bid for the Work may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.
- 18.3 In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- In evaluating Bidders, Owner will consider the qualifications of Bidders and may consider the qualifications and experience of Subcontractors, Supplier, and other individuals or entities proposed for those portions of the Work for which the identify of Subcontractors, Suppliers, and other individuals or entities must be submitted as provided in the Supplementary Conditions.
- 18.5 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders, proposed Subcontractors, Suppliers, individuals, or entities to perform the Work in accordance with the Contract Documents.
- 18.6 Bidder agrees to waive any claim it has or may have against the Owner and the respective employees arising out of or in connection with the administration, evaluation or recommendation of any Bid.
- 18.7 If the Contract is to be awarded, Owner will award the Contract to the lowest responsible responsive Bidder whose Bid is in the best interests of the Project.

1/9/2020 00 21 13-7 Instructions to Bidders

ARTICLE 19 – CONTRACT SECURITY AND INSURANCE

19.1 The General Conditions set forth Owner's requirements as to performance and payment bonds and insurance. When the Successful Bidder delivers the executed Agreement to Owner, it shall be accompanied by such bonds and a certificate of insurance.

ARTICLE 20 – SIGNING OF AGREEMENT

20.1 When Owner gives a Notice of Award to the Successful Bidder, it shall be accompanied by the required number of unsigned counterparts of the Agreement with the other Contract Documents which are identified in the Agreement as attached thereto. Within ten (10) days thereafter, Successful Bidder shall sign and deliver the required number of counterparts of the Agreement and attached documents to Owner. Within ten (10) days thereafter, Owner shall deliver one fully signed counterpart to Successful Bidder with a complete set of Drawings with appropriate identification.

END OF SECTION

1/9/2020 00 21 13-8 Instructions to Bidders

Addendum No.

SECTION 00 41 13

CITY OF DE PERE

BID FORM

PROJECT 20-06

This bid, submitted by the undersigned Bidder to the City of De Pere, in accordance with the Advertisement to Bid, which will be received until 1:00 PM, Thursday January 30, 2020 is to furnish and deliver all materials, and to perform and do all work on the project designated, by October 15, 2020.

Bidder has examined and carefully prepared the bid from the plans and specifications and has checked the same in detail before submitting said proposal or bid; and that said bidder or bidder's agents, officer or employees have not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal or bid.

Bidder has examined and carefully studied the Bidding Documents, other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged:

Addendum Date

BASIS	OF BID:
	Bidder will complete the Work in accordance with the Contract documents for the following price(s):
	As stated in the attached Unit Price Bid Schedule.
	Unit Prices have been computed in accordance with the General Conditions.
	Bidder acknowledges that estimated quantities are not guaranteed, and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Bid items will be based on actual quantities determined as provided in the Contract Documents.
	TOTAL BID PRICE: \$

1/9/2020 00 41 13-1 Bid Form

Project 20-06 **Concrete Street Repairs**

ATTACHMENTS TO THIS BID

The following documents are submitted with and made a condition of this Bid:						
A.	Required Bid Security					
B.	Unit Price Bid Schedule	(Section 00 41 43)				
C.	Proposed Products Form	(Section 00 43 33)				
B.	Tabulation of Subcontractors	(Section 00 43 36)				
BID SUBM	ITTAL					
This Bid is	submitted by	of,				
The Bidder, being duly sworn, does dispose that they are an authorized representative of						
Bidder, if B	idder is:					
An Individual						
Name (typed or printed):						
By:						
(Individual's signature)						
Doing business as:						

A Partnership

Partnersnip N	ame:	
_		
By:		
, <u> </u>	(Signature of general partner – attach evidence of authority to sign)	

Name (typed or printed):

A Corporation

Corporation Name:

State of Incorporation:

Type (General Business, Professional, Service, Limited Liability):

By: _____

(Signature – attach evidence of authority to sign)

1/9/2020 00 41 13-2 Bid Form

City of De Pere

Title:(CORPORATE SEAL)	
Attest	
Date of Qualification to do business in Wisconsin is/	
Joint Venture	
Name of Joint Venture:	
First Joint Venturer Name:	(SEAL)
By:(Signature of first joint venture partner – attach evidence of	of authority to sign)
Name (typed or printed):	
Title:	
Second Joint Venturer Name:	(SEAL)
By:(Signature of second joint venture partner – attach evidence	
(Signature of second joint venture partner – attach evidence	ce of authority to sign)
Name (typed or printed):	
Title:	
(Each joint venturer must sign. Manner of signing for each indithat is a party to joint venture should be in manner indicated above	
er's Business Address	
e No Fax No	
il	
MITTED on, 20	
Contractor License No.	(if applicable)

1/9/2020 00 41 13-3 Bid Form

SECTION 00 41 43

CITY OF DE PERE

PROJECT 20-06

BID SCHEDULE – UNIT PRICE

I SEWER (S. Ninth Street Bu	ımn Out			•			
	STORM SEWER (S. Ninth Street Bump-Outs)						
Provide 12" PVC or RCP (Class III) Storm Sewer	LF	60	\$	\$			
Provide Type B Inlet	EA	2	\$	\$			
Core Drill Existing Main with NPC Kor-N-Tee	EA	1	\$	\$			
MAIN (S. Ninth Street Bum	p-Outs)						
Provide 6" PVC Hydrant Lead	LF	6	\$	\$			
Provide Hydrant 6.5' Bury	EA	1	\$	\$			
Provide Connection to Existing Water Main 12"x6" Tapping Tee and Valve	EA	1	\$	\$			
Remove Fire Hydrant	EA	1	\$	\$			
Γ AND DRAINAGE n Street Bump-Outs, Innovati	ion Cour	t, Third Street	& Enterprise Driv	ve)			
Provide 8-Inch Doweled Concrete Pavement with Integral Curb and Gutter (Innovation Court)	SY	1,450	\$	\$			
Remove and Replace Doweled 8-Inch Concrete Pavement	SY	850	\$	\$			
Remove and Replace 24- Inch Concrete Curb and Gutter Integral	LF	650	\$	\$			
	Provide Type B Inlet Core Drill Existing Main with NPC Kor-N-Tee MAIN (S. Ninth Street Bum Provide 6" PVC Hydrant Lead Provide Hydrant 6.5' Bury Provide Connection to Existing Water Main 12"x6" Tapping Tee and Valve Remove Fire Hydrant AND DRAINAGE Street Bump-Outs, Innovati Provide 8-Inch Doweled Concrete Pavement with Integral Curb and Gutter (Innovation Court) Remove and Replace Doweled 8-Inch Concrete Pavement Remove and Replace 24-Inch Concrete Curb and	Provide Type B Inlet Core Drill Existing Main with NPC Kor-N-Tee MAIN (S. Ninth Street Bump-Outs) Provide 6" PVC Hydrant Lead LF Provide Hydrant 6.5' Bury EA Provide Connection to Existing Water Main 12"x6" Tapping Tee and Valve Remove Fire Hydrant EA CAND DRAINAGE Street Bump-Outs, Innovation Coure Provide 8-Inch Doweled Concrete Pavement with Integral Curb and Gutter (Innovation Court) Remove and Replace Doweled 8-Inch Concrete Pavement Remove and Replace 24-Inch Concrete Curb and LF	Provide Type B Inlet Core Drill Existing Main with NPC Kor-N-Tee MAIN (S. Ninth Street Bump-Outs) Provide 6" PVC Hydrant Lead Provide Hydrant 6.5' Bury EA 1 Provide Connection to Existing Water Main 12"x6" Remove Fire Hydrant EA 1 CAND DRAINAGE Street Bump-Outs, Innovation Court, Third Street Provide 8-Inch Doweled Concrete Pavement with Integral Curb and Gutter (Innovation Court) Remove and Replace Doweled 8-Inch Concrete Pavement Remove and Replace 24- Inch Concrete Curb and LF 650	Provide Type B Inlet EA 2 S Core Drill Existing Main with NPC Kor-N-Tee EA I MAIN (S. Ninth Street Bump-Outs) Provide 6" PVC Hydrant Lead LF 6 Provide Hydrant 6.5' Bury EA I Provide Connection to Existing Water Main 12"x6" Tapping Tee and Valve Remove Fire Hydrant EA I AND DRAINAGE Street Bump-Outs, Innovation Court, Third Street & Enterprise Drive Provide 8-Inch Doweled Concrete Pavement with Integral Curb and Gutter (Innovation Court) Remove and Replace Doweled 8-Inch Concrete Pavement Remove and Replace Poweled 8-Inch Concrete Pavement Remove and Replace Poweled Remove and Replace Poweled Remove and Replace Pavement Remove and Replace 24-Inch Concrete Curb and LF 650			

1/9/2020 00 41 43-1 Bid Schedule

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID		
STREE	T AND DRAINAGE CONST	RUCTIO)N	1	1		
(S. Nint	(S. Ninth Street Bump-Outs, Innovation Court, Third Street & Enterprise Drive)						
SD-04	Provide 24-Inch Concrete Curb and Gutter Integral (Innovation Court)	LF	450	\$	\$		
SD-05	Provide 8-Inch Concrete Driveway (Innovation Court)	SY	40	\$	\$		
SD-06	Provide 4-Inch Concrete Sidewalk (S. Ninth Street Bump-outs)	SY	30	\$	\$		
SD-07	Concrete Pavement Partial Depth Repair - Joint Repair	LF	820	\$	\$		
SD-08	Drilled Tie Bars	EA	300	\$	\$		
SD-09	Drilled Dowel Bars	EA	750	\$	\$		
SD-10	Cross-Stitching Longitudinal Joints and Cracks - #6 Bars	EA	120	\$	\$		
SD-11	Landscaping - Topsoil, Seed, Fertilizer and Mulch (Innovation Court)	SY	1,450	\$	\$		
SD-12	Landscaping – Borrow, (S. Ninth Street Bump-outs)	CY	10	\$	\$		
SD-13	Provide Detectable Warning Field (Natural)	EA	5	\$	\$		
STREE	T AND DRAINAGE CONST	RUCTIO	N (Various Lo	cations)			
SD-14	Provide 1-1/4-Inch Crushed Aggregate Base Course	TON	20	\$	\$		
SD-15	Remove and Replace Doweled 8-Inch Concrete Pavement	SY	200	\$	\$		
SD-16	Remove and Replace Doweled 8-Inch Concrete Pavement (HES-3DAY)	SY	10	\$	\$		
SD-17	Remove and Replace 24- Inch Concrete Curb and Gutter	LF	50	\$	\$		

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT BID				
STREE	STREET AND DRAINAGE CONSTRUCTION (Various Locations)								
SD-18	Remove and Replace 24- Inch Concrete Curb and Gutter Integral	LF	20	\$	\$				
SD-19	Drilled Tie Bars	EA	20	\$	\$				
SD-20	Drilled Dowel Bars	EA	60	\$	\$				
SPECIA	AL CONSTRUCTION			, .	1 .				
SC-01	Colored Concrete Sealing	SF	46,700	\$	\$				
SC-02	Inlet Protection Type D	EA	25	\$	\$				
SC-03	Adjust Manhole	EA	10	\$	\$				
SC-04	Adjust Inlet	EA	10	\$	\$				
SC-05	Traffic Control (Third Street)	LS	1	\$	\$				
SC-06	Traffic Control (Enterprise Drive)	LS	1	\$	\$				
SC-07	Traffic Control (Lawrence Drive)	LS	1	\$	\$				
SC-08	Rectangular Rapid Flash Beacon (S. Ninth Street Bump-outs)	EA	2	\$	\$				
SC-09	Pavement Marking Epoxy 12-Inch Crosswalk (S. Ninth Street Bump-outs)	LF	110	\$	\$				
				TOTAL	\$				

SECTION 00 43 13

CITY OF DE PERE

BID BOND

KNOW ALL MEN BY THESE PRESENT	TS: That	,	,
as Principal, hereinafter called Principal, an	nd		,
as Surety, hereinafter called Surety, are corporation of the State of Wisconsin, as C	Obligee, hereinafter called C		-
whereof Principal and Surety bind themsel jointly and severally, firmly by these prese	lves, their heirs, executors,		
WHEREAS, Principal has made a propos and incidentals necessary to complete specifications prepared by the Director of part hereof, and is hereinafter referred to as	the work of Project 20-0 Public Works of said City,	of in accordance with	drawings and
NOW, THEREFORE, THE CONDITION awarded the contract for said project and then this obligation shall be null and void;	Principal shall enter into	contract in accordance	with the BID,
1. The liability of Surety shall	in no event exceed the pen	alty of this bond.	
2. Any suits at law or proceed any claim hereunder shall be			•
Signed and sealed this day of	, 20		
In the presence of:			
WITNESS	PRINCIPAL	(SEAL)	
WITNESS	SURETY	(SEAL)	

1/9/2020 00 43 13-1 Bid Bond

SECTION 00 43 33

PROPOSED PRODUCTS FORM

The following is a list of material, type or model numbers and manufacturers used in the preparation of this proposal and to be used on this project:

ITEM	MATERIAL	SUPPLIER
Concrete		
Concrete Sealant		
Dowel Bars	Not Applicable	
Tie Bars	Not Applicable	
Rectangular Rapid Flash Beacons	Not Applicable	
Hydrant	Not Applicable	
Storm Sewer (PVC/RCP)		
Inlets	Not Applicable	

1/9/2020 00 43 33-1 Proposed Products Form

SECTION 00 43 36

TABULATION OF SUBCONTRACTORS

The following information is submitted which gives the name, business address, and portion of work for each subcontractor that will be used in the work if the bidder is awarded the contract, and no subcontractor doing work in excess of one-half of one percent of the total amount of the bid and who is not listed will be used without the written approval of the Engineer. Additional numbered pages outlining this portion of the proposal may be attached to this page.

PORTION OF WORK	BUSINESS NAME	BUSINESS ADDRESS

1/9/2020 00 43 36-1 Tabulation of Subcontractors

SECTION 00 51 00

NOTICE OF AWARD

(Contractor) (Contractor Name) (Address) (Address)
Project Description: 20-06 Concrete Street Repairs
The City has considered the proposal submitted by you dated (BID DATE) for the above-described project in response to its Advertisement for Bids dated January 9, 2020 and January 16, 2020.
You are hereby notified that the Common Council of the City of De Pere has accepted your bid of (Contract Amount \$00).
You are required to execute the Contract and furnish the required Performance Bond, Payment Bond and Certificates of Insurance within ten (10) calendar days from the date of this notice to you.
If you fail to execute said Agreement and to furnish said bonds within ten (10) days from the date of this notice, said City will be entitled to consider all your rights arising out of the City's acceptance of your bid as abandoned and as a forfeiture of your Bid Bond. The City will be entitled to such other rights as may be granted by law.
You are required to return an acknowledged copy of this NOTICE OF AWARD to the City.
Dated thisth day of2020.
DEPARTMENT OF PUBLIC WORKS
BY: Eric P. Rakers, P.E. City Engineer
ACCEPTANCE OF NOTICE
Receipt of the above NOTICE OF AWARD is hereby acknowledged by:
, this the day of, 20
By:
Title

1/9/2020 00 51 00-1 Notice of Award

SECTION 00 52 13

CONTRACT

This Cor	ntract, made and ent	ered into this day _			(date to be	affixed by	City), ł	by and
between	(Contractor Name),	hereinafter called C	Contractor,	and the City	of De Pere,	a municipa	al corpo	oration
of the Sta	ate of Wisconsin, he	reinafter called City.	•					

WITNESSETH: That, in consideration of the covenants and agreements herein contained, to be performed by the parties hereto, and of the payments hereinafter agreed to be made, it is mutually agreed as follows:

ARTICLE I - SCOPE OF WORK

The Contractor shall furnish all materials and all equipment and labor necessary, and perform all work shown on the drawings and described in the specifications for the project entitled Project 20-06 Concrete Street Repairs, all in accordance with the requirements and provisions of the following documents, which are hereby made a part of this Contract:

- (a) Advertisement for Bids, dated January 9, 2020 and January 16, 2020.
- (b) Drawings designated for Project 20-06 Concrete Street Repairs dated January 9, 2020
- (c) City of De Pere 2020 Construction Specifications.
- (d) Special Provisions dated January 9, 2020
- (e) Proposal submitted by (Contractor Name) dated Bid Date.
- (f) Addenda No. dated

ARTICLE II - TIME OF COMPLETION

- (a) The work to be performed under the Contract shall be commenced within (number spelled out) (__) calendar days after receipt of written notice to proceed. The work shall be completed within (Number spelled out) (__) calendar days) or (specific calendar dates) after receipt of Notice to Proceed.
- (b) Time is of the essence with respect to the date of completion herein above stated. Failure to complete the work within the number of calendar days stated in this Article, or interim dates included in the work sequence in Section 01 10 00, Summary of Work, including any extensions granted thereto, shall entitle the City to deduct from the monies due the Contractor an amount equal to Update based on 00 70 00 General Conditions (Page 22)(\$) per day for each calendar day of delay in the completion of the work. Such amount shall be considered and treated not as a penalty but as liquidated damages, which the City will sustain, by failure of the Contractor to complete the work within the time stated.

<u>ARTICLE III - PAYMENT</u>

(a) The Contract Sum. The City shall pay to the Contractor for the performance of the Contract the amounts determined for the total number of each of the following units of work completed at the unit price stated

1/9/2020 00 52 13-1 Contract

Concrete Street Repairs

thereafter. The number of units contained in this schedule is approximate only, and the final payment shall be made for the actual number of units that are incorporated in or made necessary by the work covered by the Contract.

- (b) Progress Payments. The City shall make payments on account of the Contract as follows:
 - 1. On not later than the fourth Friday of every month the Contractor shall present to the City an invoice covering an estimate of the amount and proportionate value of the work done as verified by the City under each item of work that has been completed from the start of the job up to and including the fourth Friday of the preceding month, and the value of the work so completed determined in accordance with the schedule of unit prices for such items, together with such supporting evidence as may be required. This invoice shall also include an allowance for the cost of such materials and equipment required in the permanent work as have been delivered to the site but not as yet incorporated in the work.
 - 2. On not later than the third week of the following month, the City shall, after deducting previous payments made, pay to the Contractor 95% of the amount of the approved invoice, retaining 5% of the estimate of work done until 50% of the work has been completed. At 50% completion of the work, the previous retainage shall not yet be paid, but further partial payments shall be made in full to the contractor without additional retainage being taken unless the engineer certifies that the work is not proceeding satisfactorily. If the work is not proceeding satisfactorily, additional amounts may be retained. After substantial completion, an amount retained may be paid to the contractor, keeping retained only such amount as is needed for the remaining work.
 - 3. The Contractor shall notify the City in writing when all work under this Contract has been completed. Upon receipt of such notice the City shall, within a reasonable time, make the final inspection and issue a final certificate stating that the work provided for in this Contract has been completed and is accepted under the terms and conditions thereof, and that the entire balance due the Contractor as noted in said final certificate is due and payable. Before issuance of the final certificate the Contractor shall submit evidence satisfactory to the City that payrolls, material bills, and other indebtedness connected with the work under this Contract have been paid. The City shall make final payment as soon after issuance of the final certificate as practicable.

ARTICLE IV - CONTRACT DOCUMENTS

(a) Contents

- 1. The Contract documents consist of the following:
 - a. This Contract (pages 00 52 13-1 to 0052-13-3, inclusive).
 - b. Payment bond (pages 00 61 13-1 to 00 61 13-2, inclusive).
 - c. Performance bond (page 00 61 16-1).
 - d. General Conditions (pages 00 70 00-1 to 00 70 00-27, inclusive).
 - e. Specifications as listed in the table of contents of the Project Manual.
 - f. Drawings consisting of ___ sheets with each sheet bearing the following general title: ___[or] the Drawings listed on attached sheet index.
 - g. Addenda (numbers to inclusive), dated .
 - h. Exhibits to this Agreement (enumerated as follows):
 - 1) Contractor's Bid (pages 00 41 13-1 to 00 41 13-3, inclusive).
 - 2) Bid Schedule Unit Prices (Pages 00 41 43-1).
 - 3) Proposed Products Form (Page 00 43 33-1).

1/9/2020 00 52 13-2 Contract

Concrete Street Repairs

- 4) Tabulation of Subcontractors (page 00 43 36-1).
- 5) Documentation submitted by Contractor prior to Notice of Award (00 51 00-1).
- i. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
 - 1) Notice to Proceed (Page 00 55 00-1).
 - 2) Change Orders.
- 2. The documents listed in Paragraph (a) Contents, are attached to this Agreement (except as expressly noted otherwise above).
- 3. There are no Contract Documents other than those listed above in this Article IV.

IN WITNESS WHEREOF, the parties hereto have executed this Contract, the day and year first written above.

(WITNESS)		(CONTRACTOR) (SEAL)
	BY:	
(WITNESS)	_	
		(TITLE)
	ВУ	7. ·
		(TITLE)
	CITY	OF DE PERE (SEAL)
Approved as to Form By:		(City Attorney)
Sufficient funds are available to provide fo	r the pay	ment of this obligation.
		(COMPTROLLER)
BY:	BY:	
(MAYOR)		(CITY CLERK)

1/9/2020 00 52 13-3 Contract

SECTION 00 55 00

NOTICE TO PROCEED

Date:		
(CONTRACTOR NAME) (ADDRESS) (ADDRESS)		
PROJECT: 20-06 Concrete	Street Repairs	
, within within (NUMBER	nmence work in accordance with the CONT ten (10) days of this Notice. All work und IN WORDS (#) consecutive days from hichever comes first.	der this contract shall be completed
	Department of Public Works	
	By: Eric P. Rakers, P.E. Title: City Engineer	
	ACCEPTANCE OF NOTICE	
Receipt of the above NOTICE	TO PROCEED is hereby acknowledged by	Y
Company Name	, this day of	, 20
Signature		
BY:Printed Name		
TITI E.		

1/9/2020 00 55 00-1 Notice to Proceed

SECTION 00 61 13

CITY OF DE PERE

PAYMENT BOND

KNOW ALL M	EN BY	THESE	PRESENTS:	That	(CONTR	ACTOR	NAME),	as P	rincipal,	hereinafter	called
Contractor, and								, as	s Surety,	hereinafter	called
Surety, are held	and firm	ly bound	unto the City	of De	Pere, a n	nunicipal	corporati	on of	the State	of Wiscor	isin, as
Obligee, hereina	fter calle	d the Cit	y, for the use	and b	enefit of	claimant	s as here	in bel	low defin	ed in the	<mark>ımount</mark>
			(CONTRA	ACT A	MT. SPE	LLED C	OUT) (\$_)	for the pa	ayment
whereof Contract	tor and S	urety bind	d themselves,	their he	eirs, execu	itors, adn	ninistratoi	rs, suc	cessors a	nd assigns,	jointly
and severally, fir	mly by th	ese presei	nts.								
WHEREAS, Cor	ntractor h	as by wri	itten agreemer	t dated	ı		(da	ite to	he affixed	d by City) (entered
into a contract w											
Public Works of	•		•			_				•	
CONTRACT.	said Cit	y, willell	contract is by	TCTCTC	nce made	a part ii	cicoi, and	1 15 110	or chilarter	iciciicu to	as the
COMMITTEE.											

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if Contractor shall promptly make payments to all claimants as hereinafter defined, for all labor and material used or reasonably required for use in the performance of the CONTRACT, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions.

- 1. A claimant is defined as one having a direct contract with Contractor or with a subcontractor of Contractor for labor, material, or both, used or reasonably required for use in the performance of the contract, labor and material being construed to include that part of water, gas, power, lights, heat, oil, gasoline, telephone service, or rental of equipment directly applicable to the contract.
- 2. The above named Contractor and Surety hereby jointly and severally agree with the City that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work or labor was done or performed, or materials were furnished by such claimant may sue on this bond for the use of such claimant in the name of the City, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon, provided, however, that the City shall not be liable for the payment of any costs or expenses of any such suit.
- 3. No suit or action shall be commenced hereunder by any claimant:
 - a. Unless claimant shall have given written notice to any two of the following: The Contractor, the City, or the Surety above named, within ninety (90) days after such claimant did or performed the last of the work or labor, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work or labor was done or performed. Such notice shall be served by mailing the same by registered mail, postage prepaid, in an envelope addressed to the Contractor, City, or Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the State of Wisconsin, save that such service need not be made by a public officer
 - b. After the expiration of one (1) year following the date on which Contractor ceased work on said CONTRACT.
 - c. Other than in a state court of competent jurisdiction in and for the County or other political subdivision of the state in which the project, or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

1/9/2020 00 61 13-1 Payment Bond

Project 20-06 City of De Pere

Concrete Street Repairs

4. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics' liens, which may be filed or recorded against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.

SIGNED AND SEALED THIS	, DAY OF, 20
In Presence of:	
(WITNESS)	(CONTRACTOR)
(WITNESS)	(SURETY)

1/9/2020 00 61 13-2 Payment Bond

SECTION 00 61 16

CITY OF DE PERE

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESE		
Contractor, and	he City of De Pere a municipal co	, as Surety, hereinafter called
· · · · · · · · · · · · · · · · · · ·	*	(AMOUNT WRITTEN OUT)
(\$) for the payment whereof C		
successors and assign, jointly and severally		es, men nens, executors, administrators,
WHEREAS, Contractor has by written agr	reement dated	date to be affixed by City), entered into
a contract with the City for Project 20-06,		
Public Works of said City, which contract	ct is by reference made a part here	of, and is hereinafter referred to as the
CONTRACT.		
NOW THEREFORE, THE CONDITION		
faithfully perform said CONTRACT, then and effect.	this obligation shall be null and voi	d; otherwise it shall remain in full force
Whenever Contractor shall be, and decla	rad by the City to be in default up	odor the CONTRACT the City having
performed City's obligations there under, the		
1. Complete the CONTRACT in acco	ordance with its terms and conditions	s or
conditions, and upon determination contract between such bidder and default or succession of defaults usufficient funds to pay the cost including other costs and damages first paragraph hereof. The term	on by the City and Surety of the lost of City make available as work prograder the contract or contracts of conformal of completion less the balance of some for which the Surety may be liable balance of the contract price as used actor under the CONTRACT and an	RACT in accordance with its terms and owest responsible bidder, arrange for a gresses (even though there should be a appletion arranged under this paragraph) the contract price; but not exceeding, the hereunder, the amount set forth in the ed in this paragraph shall mean the total by amendments thereto, less the amount
Any suit under this bond must be instituted under the CONTRACT falls due. No rig corporation other than the owner named he	ht of action shall accrue on this bo	ond to or for the use of any person or
SIGNED AND SEALED THIS	DAY OF	, 20
In the Presence of:		
(WITNESS)	(CONTRACTOR)	(SEAL)
(MARTINES CO.)	(GLYDETTY)	(GDAY)
(WITNESS)	(SURETY)	(SEAL)

1/9/2020 00 61 16-1 Performance Bond

City of De Pere

SECTION 00 62 76

APPLICATION FOR PAYMENT Contractor's Application for Payment No.

	Application Period	1:		Application Date:	
	Owner: City of De	e Pere		Contractor:	
				Contractor's Project No.:	
APPLICATION I	FOR PAYMENT Change Order Sumn	nary			
Approved Chang	ge Orders		1. ORIGINAL CONTRA	CT PRICE:	
Number	Additions	Deductions		ge Orders and Written Amendments (+ or -):	\$0.00
			CURRENT CONTRA	CT PRICE (Line 1 plus Line 2):	\$0.00
				stored to date Column H on Progress Estimate:	\$0.00
			Retainage (per Agree		****
				Column H (95% up to 50% of Contract or 2.5% of	\$0.00
Total		0.00 \$0.00	100% of Contract	TO DATE (Line 4 minus 5)	\$0.00
Total		5.00		AYMENTS (Line 6 from prior Application)	\$0.00
NET CHANGE E	BY CHANGE ORDERS:	\$0.00		APPLICATION (Line 6 minus Line 7)	\$0.00
The undersigned payments receiv have been applied obligations incur for Payment; (2)	S CERTIFICATION If Contractor certifies that:(1) a med from Owner on account of N med on account to discharge Contract on account to discharge Contract in connection with Work of title of all Work, materials and merwise listed in or covered by the	Nork done under Contract intractor's legitimate evered by prior Applications equipment incorporated in	Payment of: is recommended by:	\$ (Line 8 or other - attach explanation of other amount) (Contractor)	(Date)
interests and end acceptable to Ov interest or encur	er at time of payment free and cumbrances (except such as a wner indemnifying Owner agair mbrances); and (3) all Work co- cordance with the Contract Do	re covere d by a Bond est any such Liens, security wered by the Application for	and the second s	\$ (Line 8 or other - attach explanation of other amount)	
			is recommended by:		
By:		Date:	4	(Owner)	(Date)
			4		

SECTION 00 65 16

CERTIFICATE OF SUBSTANTIAL COMPLETION

Project:					
Owner:	Owner's Contract No.:				
Contractor:					
This [tentative] [definitive] Certificate of Substa ☐ All Work under the Contract Documents: ☐ ☐					
Date of S	ubstantial Completion				
and Engineer, and found to be substantially con	s been inspected by authorized representatives of Contractor inplete. The Date of Substantial completion of the Project or clared and is also the date of commencement of applicable except as stated below.				
	appleted or corrected is attached hereto. This list may not be items on such list does not alter the responsibility of the with the Contract Documents.				
_	tractor for security, operation, safety, maintenance, heat, s provided in the Contract Documents except as amended				
☐ Amended Responsibilities	□ Not Amended				
Owner's Amended Responsibilities:					
Contractor's Amended Responsibilities:					

The following documents are attached to and made part of this Certificate:					
	eptance of Work not in accordance with the Connection to complete the Work in accordance with the				
Executed by Engineer	Date	_			
Accepted by Contractor	 Date	_			

SECTION 01 10 00

SUMMARY OF WORK

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes

- 1. References
- 2. Work Covered by the Contract Documents
- 3. Work Sequence
- 4. Use of Premises
- 5. Warranty
- 6. Work by Others
- 7. Project Utility Sources
- 8. Miscellaneous Provisions

1.2 REFERENCES

- A. General Specifications. The work under this contract shall be in accordance with the City of De Pere, 2020 Construction Specifications and these Special Provisions and plans, and the latest edition of the Wisconsin Department of Transportation Standards Specifications for Highway and Structure Construction, where referenced in the City Specifications.
- B. Definitions. Any reference to the "state" or the "department" in said Standard Specifications shall mean the "City of De Pere" for the purposes of this contract.

C. Industry Standards

- 1. Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
- 2. Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
- 3. If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement.
- 4. The quantity or quality level shown or specified shall be the minimum provided or performed. The actual installation may comply exactly with the minimum quantity or quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements.
- 5. Each section of the specifications generally includes a list of reference standards normally referred to in that respective section. The purpose of this list is to furnish the Contractor with a list of standards normally used for outlining the quality control desired on the project. The lists are not intended to be complete or all inclusive, but only a general reference of standards that are regularly referred to.

1/9/2020 01 10 00-1 Summary of Work

Concrete Street Repairs

6. Each entity engaged in construction on the Project shall be familiar with industry standards applicable to its construction activity. Copies of applicable standards are not bound with the Contract Documents. Where copies of standards are needed to perform a required construction activity, obtain copies directly from the publication source and make them available on request.

1.3 WORK COVERED BY THE CONTRACT DOCUMENTS

A. Project Identification

- 1. Project Location
 - a. Third Street from Riverview Avenue to Fourth Street.
 - b. Enterprise Drive from Rockland Road to 775 feet south of Prosper Street.
 - c. 1031 Lawrence Drive.
 - d. Innovation Court 1,200 feet north of Southbridge Road.
 - e. 1177 South Ninth Street.
 - f. Concrete pavement repairs and colored concrete sealing at various locations.
- 2. Work will be performed under the following prime contract:
 - a. 20-06 Concrete Street Repairs

B. The Work includes:

- 1. Fine grading and base preparation.
- 2. Crushed aggregate base course.
- 3. Doweled concrete curb and gutter and concrete pavement.
- 4. Remove and replace concrete pavement.
- 5. New concrete sidewalk, curb and gutter.
- 6. Cross-stitching.
- 7. Concrete pavement partial depth pavement repair joint repair.
- 8. Terrace Restoration.
- 9. Traffic control.
- 10. Erosion control.
- 11. Installation of Rectangular Rapid Flash Beacons, associated footings and appurtenances.
- 12. Hydrant Replacement
- 13. New storm sewer and associated appurtenances and inlet installation.
- 14. Colored concrete sealing.

1.4 WORK SEQUENCE

- A. This project is tentatively scheduled to go to the Board of Public Works on Monday, February 10, 2020 and Common Council on Tuesday, February 18, 2020 for consideration of award.
- B. Conduct construction activities to maintain access to businesses and residences throughout construction.
- C. Complete all work by Thursday, October 15, 2020. The City reserves the right to request one additional mobilization to complete unexpected repairs if work is substantially completed prior to this date.

1/9/2020 01 10 00-2 Summary of Work

- D. All work for pedestrian crossing bump outs and rectangular rapid flashing beacon installation on South Ninth Street can commence on June 8, 2020 and be completed by August 21, 2020 to accommodate the West De Pere School District. The concrete bases for the RRFB units shall be installed prior to any other concrete paving occurring at this location.
- E. All work on Third Street will begin after May 17, 2020 and shall be completed by August 21, 2020 to accommodate St. Norbert College.
- F. The calendar days listed below are the allowed time for each location from the beginning of construction of the street or site to the substantial completion of the area. Substantial completion is defined as having the street or site paved and painted. The start and end dates for each location are also listed to better illustrate the window to complete work.

	Location	Start Date	End Date	Calendar Days
1.	Third Street Rehab	5-17-2020	8-21-2020	35
2.	Enterprise Drive Rehab	N/A	10-15-2020	35
3.	South Ninth Street Bump Outs	6-8-2020	8-21-2020	30
4.	Innovation Court	N/A	10-15-2020	30
5.	1031 Lawrence Drive	N/A	10-15-2020	7

1.5 USE OF PREMISES

- A. Contractor shall have full use of the premises for construction operations, including use of the Project Site, as allowed by law, ordinances, permits, easement agreements and the Contract documents.
- B. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of the Project.
- C. The Project Site is limited to property boundaries, rights-of-way, easements, and other areas designated in the Contract Documents.
- D. Provide protection and safekeeping of material and products stored on or off the premises.
- E. Move any stored material or products which interfere with operations of Owner or other Contractors.

1/9/2020 01 10 00-3 Summary of Work

City of De Pere

1.6 WARRANTY

- A. The Contractor warrants and guarantees to the City that all work shall be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects will be given to the Contractor. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this proposal.
- B. If within one (1) year after the date of contract work completion or such longer period of time as may be prescribed by law or by the terms of any applicable special guarantee required by the Contract Documents or by a special provision of the Contract Documents, any work is found to be defective, the Contractor shall comply in accordance with the City's written instructions. These written instructions will include either correcting such defective work or, if it has been rejected by the City, removing it from the site and replacing it with non-defective work. If the Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk or loss or damage, the City may have the defective work corrected or the rejected work removed and replaced. All direct and indirect costs of correction or removal and replacement of defective work, including compensation for additional professional services, shall be paid by the Contractor.

1.7 WORK BY OTHERS

- A. The City of De Pere Park Department will trim trees in conflict with construction if the City receives advanced notification. Questions regarding trees or landscaping that is bid as part of this contract can be directed to the Engineer.
- B. Owner has awarded a separate contract for performance of certain construction operations which will be conducted at the Project Site simultaneously with work under this Contract. These Contracts include the following:
 - 1. Project 19-05 Sidewalk and Curb Repair
 - a. Concrete Rehabilitation on Third Street Riverview Avenue to Marsh Street.
 - 2. Project 19-06 Lawrence Drive Sidewalk
 - a. New sidewalk is being installed along the east side of Lawrence Drive. This work is tentatively scheduled to be completed by July 1, 2020.
 - 3. Project 20-01A West Sewer and Water Relay and Street Resurfacing
 - a. At Innovation Court the Utilities are being extended to service the new development. The existing asphalt cul-de-sac will be pulverized as part of Project 20-01 and the pulverized material will be used for the adjacent parking lot reconstruction. The existing crushed aggregate base course at the cul-de-sac will remain.
 - b. On Southbridge Road, a new sanitary sewer line is being installed to service a new development. This will result in a one day closure and detour of traffic to the south on Creamery Road.
 - 4. 2020 Innovation Court is being developed into an office building adjacent to the cul-de-sac work on Innovation court.
- C. Cooperate fully with separate contractors and/or Owner so work by others may be carried out smoothly, without interfering with or delaying work under this Contract.

1/9/2020 01 10 00-4 Summary of Work

City of De Pere

1.8 PROJECT UTILITY SOURCES

- A. Green Bay Metropolitan Sewer District (NEW Water), Lisa Sarau, (<u>lsarau@newwater.us</u>) (920-438-1039)
- B. AT&T, Shea Gorzelanczyk, (sg2528@att.com) (920-433-4250)
- C. Wisconsin Public Service, Bob Laskowski, (<u>rtlaskowski@wisconsinpublicservice.com</u>) (920-617-2775)
- D. Charter, Vince Albin, (vince.albin@charter.com) (920-378-0444)
- E. Nsight, Rick Vincent, (<u>rick.vincent@nsight.com</u>) (920-617-7316)
- F. TDS Metrocom, Steve Jakubiec, (<u>steve.jakubiec@tdstelecom.com</u>) (920-882-4166)
- G. Net-Lec (Mi-Tech Services), Dennis Lafave, (dlafave@mi-tech.us) (920-619-9774)
- H. Level3 (Mi-Tech Services), Chris Kraus, (ckraus@mi-tech.us) (414-550-6201)
- I. Central Brown County Water Authority, Rob Michaelson, (<u>rmichaelson@mpu.org</u>) (920-686-4354)

1.9 MISCELLANEOUS PROVISIONS

- A. Notification to Residents –notify individually all residents and businesses 2-weeks prior to the start of operations, giving an estimated time that vehicle movement will be limited or prohibited. Property owners shall be notified 24-hours prior to closing a drive.
- B. The existing asphalt pavement at the cul-de-sac on Innovation Court is to be pulverized and excavated to the top of the base course as part of Project 20-01A West Sewer and Water Relay and Street Resurfacing. The existing crushed aggregate base course is to remain on site and be utilized for the new 8-inch, doweled concrete pavement. Coordinate construction with the contractor of Project 20-01A. Base preparation and fine grading is to be completed in the cul-de-sac prior to concrete paving and is incidental to the concrete paving unit price.
- C. Ingress and egress to the site of work for delivery of materials, hauling and excavation, daily construction activities and all vehicular traffic shall be as follows:

Location	Route	
Third Street	Reid Street or Lost Dauphin Road via	
	Scheuring Road	
Enterprise Drive	Heritage Road or Prosper Street	
1031 Lawrence Drive	Grant Street or Scheuring Road	
Innovation Court	Southbridge Road	
1177 South Ninth Street	Grant Street or Scheuring Road	

1/9/2020 01 10 00-5 Summary of Work

- **Concrete Street Repairs**
 - D. Provide a traffic control plan for the following locations:
 - 1. The restriction of Third Street to maintain northbound only traffic between Riverview Avenue and Marsh Street. Work on Third Street shall be conducted in two stages to minimize the impact to traffic. Work will need to be coordinated with Project 19-05 and its contractor to prevent staging issues or traffic confusion.
 - 2. Any lane closure on Scheuring Road to accommodate colored concrete sealing. The City will apply for the permit with Brown County once the traffic control plan and dates are reviewed approved.
 - 3. Any lane closure on Grant Street to accommodate colored concrete sealing. The City will apply for the permit with Brown County once the traffic control plan and dates are reviewed approved.
 - 4. Any lane closure on Third Street to accommodate colored concrete sealing. The closure dates cannot conflict with the traffic control set up for the concrete rehabilitation on Third Street under this project or Project 19-05.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

1/9/2020 01 10 00-6 Summary of Work

SECTION 01 22 02

MEASUREMENT AND PAYMENT STORM SEWER

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:	Bid Item No.
1. Storm Sewer Mains (Granular Backfill)	ST-01
2. Catch Basin/Inlets	ST-02
3. Core Drill Existing Pipe	ST-03

B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
 when combined with all unit price items. If there are specific work items which the Contractor
 believes are not identified in any Unit Price Item, but is required to provide a functionally
 complete Project, then the identified specific work items shall be included in the appropriate
 Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for storm sewer systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
 - 1. Traffic Control.
 - 2. Sawcutting asphalt and/or concrete.
 - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
 - 4. Dewatering.
 - 5. Excavation.
 - 6. Open trench installation method (unless bid item specifies other method).
 - 7. Pipe bedding.
 - 8. Backfilling and compacting native obtained from the excavation.
 - 9. Supplying, hauling, backfilling and compacting granular material.
 - 10. Loading, hauling and disposing of surplus excavated material.
 - 11. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
 - 12. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
 - 13. Site access requirements including temporary aggregate material as required for local traffic access.
 - 14. Bulkhead and abandon existing storm sewer with flowable fill as shown on drawings.

- - 15. If crossing or undermining of existing public or private utility, then include:
 - a. Maintaining the utility in service.
 - b. Replacing of existing utilities, if damaged.
 - c. Providing support and bedding material.
 - 16. Dust control.
 - 17. Remove and replace existing mailboxes and traffic signs.
 - 18. Restroom facilities.
 - 19. Easement and right-of-way requirements.
 - 20. Construction staking and other survey work not provided by the Engineer.
 - 21. Regulatory requirements.
 - 22. Preconstruction videotaping and video equipment.
 - 23. Quality assurance and quality control testing and inspections.
 - 24. Shop drawings and other submittals.

1.3 STORM SEWER MAINS (GRANULAR BACKFILL)

- A. The unit price for Storm Sewer Main (Granular Backfill) work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Storm sewer pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
 - 3. Excavation, breakdown and removal of abandoned piping inside the trench area, including plugging of existing connections.
 - 4. Excavation, breakdown and removal of abandoned pipeline structures inside the trench area, including plugging of existing connections.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed sewer from centerline of the manhole to centerline of manhole with no deductions for manholes. sewer services branches and other fittings.
- C. The unit of measurement for payment is linear feet.

CATCH BASIN/INLETS 1.4

- A. The unit price for Catch Basin/Inlets work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Precast reinforced concrete components.
 - 3. Joint flexible gasket material.
 - 4. Grout seal between the catch basin/inlet structure and the sewer pipe.
 - 5. Adjusting rings grouted in place.
 - 6. Casting frame and grate.
 - 7. Bedding material.
 - 8. Supply and install 6 to 10 feet of 4 inch flexible perforated plastic pipe with geotextile wrap subgrade drain.
 - 9. Sand fill and Class "B" concrete floor and flow line.
 - 10. Temporary cover over catch basin/inlet to prevent eroded materials from entering.
 - 11. Final casting adjustment.
- B. Measurement for payment will be the actual number installed.

C. The unit of measurement for payment is each.

1.5 CORE DRILL EXISTING PIPE

- A. The unit price for Core Drill Existing Pipe work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Core drilling into existing storm sewer pipe.
 - 3. Install A-lok boot.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

END OF SECTION

SECTION 01 22 03

MEASUREMENT AND PAYMENT WATER SYSTEM

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:		Bid Item No.
	1. 6-Inch Hydrant Lead	W-01
	2. Fire Hydrants	W-02
	3. Connection to Existing Water Mains	W-03
	4. Remove Fire Hydrant	W-04

B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
 when combined with all unit price items. If there are specific work items which the Contractor
 believes are not identified in any Unit Price Item, but is required to provide a functionally
 complete Project, then the identified specific work items shall be included in the appropriate
 Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for water systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
 - 1. Traffic Control.
 - 2. Sawcutting asphalt and/or concrete.
 - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
 - 4. Dewatering.
 - 5. Excavation.
 - 6. Open Trench installation method (unless bid item specifies other method).
 - 7. Pipe Bedding.
 - 8. Backfilling and compacting native obtained from the excavation.
 - 9. Supplying, hauling, backfilling and compacting granular material.
 - 10. Loading, hauling and disposing of surplus excavated material.
 - 11. Landscaping turf establishment surface restoration and trees and bushes damaged during construction.
 - 12. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
 - 13. Site access requirements including temporary aggregate material as required for local traffic access.

- 14. Bulkhead and abandoned existing water main with flowable fill as shown on Drawings.
- 15. If crossing or undermining of existing public or private utility, then include:
 - a. Maintaining the utility in service.
 - b. Replacing of existing utilities, if damaged.
 - c. Providing support and bedding material.
- 16. Dust control.
- 17. Remove and replace existing mailboxes and traffic signs.
- 18. Restroom facilities.
- 19. Easement and right-of-way requirements.
- 20. Construction staking and other survey work not provided by the Engineer.
- 21. Regulatory requirements.
- 22. Preconstruction videotaping and video equipment.
- 23. Quality assurance and quality control testing and inspections.
- 24. Shop drawings and other submittals.

1.3 6-INCH HYDRANT LEAD

- A. The unit price for 6-Inch Hydrant Lead work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Water pipe and fittings of material stated in the Unit Price Bid Schedule and installed using the open trench method.
 - 3. Ductile or cast iron fittings.
 - 4. Tracer wire.
 - 5. Polyethylene encasement of ductile iron or cast iron pipe and fittings.
 - 6. Blocking and joint restraints.
 - 7. Disinfection of pipelines.
- B. Measurement of payment will be the actual horizontal length along the centerline of the installed water main with no deductions for fittings and valves.
- C. The unit of measurement for payment is linear feet.

1.4 FIRE HYDRANTS

- A. The unit price for Fire Hydrants work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Fire hydrant complete of the specified bury depth.
 - 3. Blocking and joint restraints.
 - 4. Hydrant wrenches.
 - 5. Hydrant markers.
 - 6. Polyethylene encasement.
 - 7. Drainage pit.
 - 8. Disinfection of hydrant.
 - 9. Tracer wire.
 - 10. Tracer wire access box.
- B. Measurement for payment will be the actual number installed.

C. The unit of measurement for payment is each.

1.5 CONNECTIONS TO EXISTING WATER MAINS

- A. The unit price for Connection to Existing Water Mains work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Locating existing water main.
 - 3. Connection to the end of existing pipe.
 - a. Remove existing plug.
 - b. Direct connection to end of existing pipe.
 - c. Transition fittings, if required.
- B. Measurement for payment will be the actual number installed.
- C. The unit of measurement for payment is each.

1.6 REMOVE FIRE HYDRANT

- A. The unit price for Abandon/Remove Water Main and Appurtenances work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Excavating
 - 3. Install cap on existing water main appurtenance.
 - 4. Backfilling and compacting.
 - 5. Removal and disposal of appurtenances as shown on the Drawings.
- B. Measurement for payment will be the actual number removed.
- C. The unit of measurement for payment is each.

END OF SECTION

SECTION 01 22 04

MEASUREMENT AND PAYMENT STREET AND DRAINAGE CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:	Bid Item No.
Portland Cement Concrete Pavement	SD-01, SD-02, SD-15 & SD-16
2. Portland Cement Concrete Curb and Gutter	SD-03, SD-04, SD-17 & SD-18
3. Portland Cement Concrete Sidewalk and Driveway	SD-05 & SD-06
4. Concrete Pavement Partial Depth Repair	SD-07
5. Drilling Tie Bars and Dowel Bars	SD-08, SD-09, SD-19 & SD-20
6. Cross-Stitching Concrete Pavement	SD-10
7. Landscaping – Topsoil, Seed, Fertilize, and Mulch	SD-11
8. Landscaping – Borrow	SD-12
9. Detectable Warning Field Natural	SD-13
10. Crushed Aggregate Base Course	SD-14

B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
 when combined with all unit price items. If there are specific work items which the Contractor
 believes are not identified in any Unit Price Item, but is required to provide a functionally
 complete Project, then the identified specific work items shall be included in the appropriate
 Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for street and drainage systems.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
 - 1. Traffic Control.
 - 2. Sawcutting asphalt and/or concrete.
 - 3. Removal, hauling and disposal of surface materials including road pavement, curb and gutter, sidewalk, driveways and other pavement surfaces in the trench area and as shown on the drawings.
 - 4. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site.
 - 5. Site access requirements including temporary aggregate material as required for local traffic access.
 - 6. Dust control.
 - 7. Remove and replace existing mailboxes and traffic signs.
 - 8. Restroom facilities.

- **Concrete Street Repairs**
 - 9. Construction staking and other survey work not provided by the Engineer.
 - 10. Regulatory requirements.
 - 11. Quality assurance and quality control testing and inspections.
 - 12. Final casting and valve box adjustment.
 - 13. Shop drawings and other submittals.

PORTLAND CEMENT CONCRETE PAVEMENT 1.3

- A. The unit price for Portland Cement Concrete Pavement work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Furnish all labor, tools, equipment and services.
 - 3. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
 - 4. Surface preparation.
 - 5. Providing reinforcement including tie bars and dowel bars.
 - 6. Drilling tie bars and dowel bars into existing pavement.
 - 7. Joint sealing.
 - 8. Providing curing.
 - 9. Concrete sealing with linseed oil.
 - 10. Fine grading of subgrade.
 - 11. Providing expansion joints and contraction joints.
 - 12. Adjustment of manholes, water valves, inlets/catch basin and other structures to finish grade.
 - 13. Finishing.
 - 14. Protection.
- B. Measurement for payment will be length and width of areas paved. Concrete curb and gutter will be measured separately, regardless if the curb is installed with integral curb. Curb and gutter will be paid per linear foot for twenty-four (24) inch width. The width and length will be subtracted from the concrete pavement area if integral curb is constructed.
- C. The unit of measurement for payment is square yard.

PORTLAND CEMENT CONCRETE CURB AND GUTTER 1.4

- A. The unit price for Portland Cement Concrete Curb and Gutter work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Providing Portland cement concrete mixture of size shown in the drawings or specified elsewhere.
 - 3. Providing expansion joints.
 - 4. Providing curing.
 - 5. Existing curb and gutter removal.
 - 6. Subgrade preparation.
 - 7. Provide crushed aggregate base.
 - 8. Fine grading of subgrade.
 - 9. Providing contraction joints.
 - 10. Driveway entrances and handicap ramp entrances.
 - 11. Adjustment of catch basin/inlets.
 - 12. Finishing.

- 13. Protection.
- 14. Restoration behind the curb.
- B. Measurement for payment will be along the flow line of the gutter and through inlets/catch basins.
- C. The unit of measurement for payment is linear feet.

1.5 PORTLAND CEMENT CONCRETE SIDEWALK AND DRIVEWAY

- A. The unit price for Portland Cement Concrete Sidewalk and Driveway work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Providing Portland cement concrete mixture of thickness shown in the drawings or specified elsewhere.
 - 3. Providing reinforcement.
 - 4. Providing expansion joint.
 - 5. Providing curing.
 - 6. Existing pavement removal.
 - 7. Subgrade preparation.
 - 8. Providing contraction joints.
 - 9. Handicap ramps.
 - 10. Sidewalk steps.
 - 11. Saw cutting adjacent surfaces.
 - 12. Finishing.
 - 13. Protection.
 - 14. Restoration.
- B. Measurement for payment will be the average horizontal length and width of the concrete placed.
- C. The unit of measurement for payment is square yards.

1.6 CONCRETE PAVEMENT PARTIAL DEPTH REPAIR- JOINT REPAIR

- A. The unit price for Concrete Pavement Partial Depth Repair Joint Repair work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Furnish all labor, tools, equipment and services.
 - 3. Furnish and place sand where required.
 - 4. Furnish and place compression relief material where required.
 - 5. Furnish and place preformed joint filler where required.
 - 6. Providing and placement of the Portland cement concrete mixture.
 - 7. Providing curing with linseed oil.
 - 8. Reestablish cracks or joints.
- B. Measurement for payment will be along centerline of joint or crack repaired.
- C. The unit of measurement for payment is linear feet.

1.7 DRILLING TIE BARS AND DOWEL BARS

- A. The unit price for Drilling Tie Bars work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Providing and installing tie bars and dowel bars, including coating.
 - 3. For drilling holes in concrete not placed under the contract.
 - 4. For epoxying or driving.
- B. Measurement for payment will be the actual number of bars installed.
- C. The unit of measurement for payment is each.

1.8 CROSS-STITCHING CONCRETE PAVEMENT

- A. The unit price for Cross Stitching Concrete Pavement work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Furnish all labor, tools, equipment and services.
 - 3. Supply and install ³/₄" epoxy coated tie bars.
 - 4. Drilling holes in concrete per specifications.
 - 5. Supply and install epoxy grout.
- B. Measurement of payment will be the actual number of 3/4" bars installed.
- C. The unit of measurement for payment is each.

1.9 LANDSCAPING – TOPSOIL, SEED, FERTILIZE AND MULCH

- A. The unit price for Landscaping-Topsoil, Seed, Fertilize, and Mulch work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide 4" topsoil or salvaged topsoil.
 - 3. Provide seed.
 - 4. Provide fertilizer.
 - 5. Provide mulch.
 - 6. Provide maintenance.
- B. Measurement for payment will be the width and length not greater than the road right-of-way, not greater than the easement and not greater than fifteen (15) feet beyond the top of either side of ditches outside the right-of-way.
- C. The unit of measurement for payment is square yard.

1.10 LANDSCAPING – BORROW

- A. The unit price for Landscaping Borrow work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide clean, borrow material to an elevation 4-inches below the finish grade.
 - 3. Provide maintenance.

- B. Measurement of payment will be the actual volume of borrow material placed.
- C. The unit of measurement for payment is cubic yards.

1.11 DETECTABLE WARNING FIELD NATURAL

- A. The unit price for Detectable Warning Field Natural work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Providing and installing Detectable Warning Field per ADA requirements.
 - 3. Each detectable warning field shall be two (2) feet by four (4) feet.
- B. Measurement for payment will be the actual number of detectable warning field installed.
- C. The unit of measurement for payment is each.

1.12 CRUSHED AGGREGATE BASE COURSE

- A. The unit price for Crushed Aggregate Base and Surface Course work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Aggregate material.
 - 3. Preparation of foundation.
 - 4. Placing and compacting to thickness and width shown on the Drawings or specified elsewhere.
 - 5. Maintenance until surface pavement is constructed.
 - 6. Preparation of crushed aggregate base for paving.
 - 7. Adjustment of manholes and valve boxes to proposed finish road grade.
- B. Measurement of payment will be the actual amount of material required and incorporated in the work verified by submitting to the Engineer delivery tickets provide with each load showing the weight measured on a certified scale, type of material, the date delivered and the project name. Aggregates in excess of seven (7) percent total moisture determined based on the dry mass of the aggregates will have moisture content in excess of seven (7) percent deducted from the measured weight.
- C. The unit of measurement for payment is tons.

END OF SECTION

SECTION 01 22 05

MEASUREMENT AND PAYMENT SPECIAL CONSTRUCTION

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:	Bid Item No.
Colored Concrete Sealing	SC-01
2. Inlet Protection Erosion Control	SC-02
	~ ° ° -
3. Adjusting Existing Structure Frame and Casting	SC-03 & SC-04
4. Traffic Control	SC-05, SC-06 & SC-07
5. Rectangular Rapid Flash Beacon Installation	SC-08
6. Pavement Marking	SC-09

B. Unit Prices include:

- Defined work for each Unit Price Item which will provide a functionally complete Project
 when combined with all unit price items. If there are specific work items which the Contractor
 believes are not identified in any Unit Price Item, but is required to provide a functionally
 complete Project, then the identified specific work items shall be included in the appropriate
 Unit Price Item.
- 2. The method of measurement for payment.
- 3. The price per unit for payment.

1.2 GENERAL WORK ITEMS

- A. Include with the appropriate Unit Price Item the following work items which are common to the Unit Price Items for special construction.
- B. If there is a specific Unit Price Item for any of the following items, then the work item shall be included with that specific unit price item.
 - 1. Traffic Control.
 - 2. Loading, hauling and disposing of surplus material.
 - 3. Maintenance, protection, replacement and/or repair of facilities not designated for alteration on the Site beyond the limits identified.
 - 4. Dust control.
 - 5. Restroom facilities.
 - 6. Construction staking and other survey work not provided by the Engineer.
 - 7. Regulatory requirements.
 - 8. Quality assurance and quality control testing and inspections.
 - 9. Shop drawings and other submittals.

1.3 COLORED CONCRETE SEALING

- A. The unit price for Colored Concrete Sealing work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Furnish all labor, tools, equipment and services.

- 3. Sealant material.
- 4. Preparation of concrete.
- 5. Placing sealant (first and second coats).
- 6. Protection.
- B. Measurement of payment will be the average horizontal length and width of the sealant placed.
- C. The unit of measurement for payment is square feet.

1.4 INLET PROTECTION EROSION CONTROL

- A. The unit price for Inlet Protection Erosion Control work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide geotextile and wood materials for type shown on the Drawings.
 - 3. Placing inlet protection system.
 - 4. Inspection and maintenance of the installed inlet protection.
 - 5. Removal of the inlet protection.
 - 6. Cleaning debris buildup around inlet.
- B. Measurement for payment will be the actual number of inlet protection erosion control installed.
- C. The unit of measurement for payment is each.

1.5 ADJUSTING EXISTING STRUCTURE FRAME AND CASTING

- A. The unit price for Adjusting Existing Structure Frame Casting work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide structure castings.
 - 3. Removal of the casting and existing adjusting rings from the structure as required.
 - 4. Providing concrete adjusting rings and a 2 inch rubber riser ring from the WisDOT approved product list.
 - 5. Bituminous plastic cement sealing the exterior of the adjusting rings and casting.
 - 6. The ring will be secured to the precast section with a 3 ½ inch wide Kent Seal or equal.
 - 7. Above the concrete ring attach $\frac{1}{4}$ inch thru 3 inch thick ring using two $\frac{5}{16}$ inch bead above and below the ring of sealant type as recommended by the rubber manufacturer.
 - 8. Initial and final adjustment.
 - 9. Backfilling and compacting.
- B. Measurement for payment will be the actual number of structure frame casting adjusted.
- C. The unit of measurement for payment is each.

1.6 TRAFFIC CONTROL

- A. The unit price for Inlet Protection Erosion Control work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Furnish all labor, tools, equipment and services.

- 3. Construct and use traffic control facilities in accordance with the U.S. D. O. T. Federal Highway Administration's Manual on Uniform Traffic Control Devices for Streets and Highways Maintenance of traffic control. Submit the proposed plan to the Engineer for review and approval at least one week prior to installation.
- 4. Maintaining traffic control for the duration of work.
- 5. Removal of signage, barricades, etc. after the project has been completed.
- B. Measurement for payment will not be made.
- C. The unit of measurement for payment is lump sum.

1.7 RECTANGULAR RAPID FLASH BEACON INSTALLATION

- A. The unit price for Rectangular Rapid-Flash Beacon Installation work includes:
 - 1. General Work Items of Article 1.2.
 - 2. Provide footings and appurtenances.
 - 3. Providing and installing all sign posts, sign bases and associated appurtenances.
 - 4. Providing and installing the rectangular rapid-flash sign assembly including reflective signs, flashing beacons, pedestrian push buttons, solar panels, communications, wiring, and associated appurtenances as recommended by the manufacturer.
 - 5. Restoration
- B. Measurement for payment will be each rectangular rapid-flash beacon installed.
- C. The unit of measurement for payment is each.

1.8 PAVEMENT MARKING

- A. The unit price for Pavement Marking includes:
 - 1. General Work Items of Article 1.2.
 - 2. Providing and installing the pavement marking epoxy lines includes preparing the surface, including brush-off blasting of concrete, for providing all marking, including reflectorization with glass beads, for protecting marking until dry or cured, and for replacing marking improperly constructed or that fails during the warranty period.
 - 3. For remarking if initially applies at less than 90% of the specified rate.
- B. Measurement for payment will be by the linear foot, calculated as follows:
 - 1. For solid lines; by adding the linear feet of solid line measured end to end.
 - 2. For intermittent lines; by multiplying the specified length of the individual marking of the line by the number of markings in the intermittent line end to end.
- C. The unit of measurement for payment is linear feet.

END OF SECTION

SECTION 01 29 00

PAYMENT PROCEDURES

PART 1 – GENERAL

1.1 SUMMARY

- A. This section includes:
 - 1. Administrative and procedural requirements necessary to prepare and process Applications for Payment.

1.2 SCHEDULE OF VALUES

A. Unit Price work will be the Schedule of Values used as the basis for reviewing Applications for Payment.

1.3 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as recommended by the Engineer and approved by Owner.
- B. The date for each progress payment should be the 3rd Wednesday of each month. The period covered by each Application for Payment starts on the day following the end of the preceding period and ends the 4th Friday of the Month.
- C. Use forms provided by Engineer for Applications for Payment. Sample copy of the Application for Payment and Continuation Sheet is included in Section 00 62 76.

D. Application Preparation Procedures

- 1. When requested by the Contractor, the Engineer will determine the actual quantities and classifications of Unit Price Work performed.
 - a. Preliminary determinations will be reviewed with the Contractor before completing Application for Payment.
 - b. Engineer will complete the Application for Payment based on Engineer's decision on actual quantities and classifications.
 - c. Engineer will submit three original copies of Application for Payment to Contractor for certification of all three original copies.
 - d. Contractor shall submit signed Application for payment to Owner for approval within time frame agreed to at the Preconstruction Conference.
- 2. If payment is requested for materials and equipment not incorporated in the Work, then the following shall be submitted with the Application for Payment:
 - a. Evidence that materials and equipment are suitably stored at the site or at another location agreed to in writing.
 - b. A bill of sale, invoice, or other documentation warranting that the materials and equipment are free and clear of all liens.
 - c. Evidence that the materials and equipment are covered by property insurance.

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- 3. Complete every entry on form. Execute by a person authorized to sign legal documents on behalf of Contractor.
- E. With each Application for Payment, submit waivers of liens from subcontractors and suppliers for the construction period covered by the previous application.
 - 1. Submit partial waivers on each item for amount requested before deduction for retainage on each item.
 - 2. When an application shows completion for an item, submit final or full waivers.
 - 3. Owner reserves the right to designate which entities involved in the Work shall submit waivers.
 - 4. Submit final Application for Payment with or preceded by final waivers from every entity involved with performance of the Work covered by the application.
 - 5. Submit waivers of lien on forms executed in a manner acceptable to Owner.
- F. The following administrative actions and submittals shall precede or coincide with submittal of first Application for Payment:
 - 1. List of subcontractors.
 - 2. Schedule of Values (For Lump Sum Work).
 - 3. Contractor's construction schedule.
- G. Submit final Application for Payment with releases and supporting documentation not previously submitted and accepted including, but not limited, to the following:
 - 1. Evidence of completion of Project closeout requirements.
 - 2. Insurance certificates for products and completed operations where required and proof that taxes, fees, and similar obligations were paid.
 - 3. Updated final statement, accounting for final changes to the Contract Sum.
 - 4. Consent of Surety to Final Payment.
 - 5. Final lien waivers as evidence that claims have been settled.
 - 6. Final liquidated damages settlement statement.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

1/9/2020 01 29 00-2 Payment Procedures

SECTION 01 32 33

CONSTRUCTION PHOTOGRAPHS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Photographs for utility construction sites.

1.2 SUBMITTALS

A. Submit electronic files of each photographic view within seven (7) days of taking photographs.

1.3 QUALITY ASSURANCE

A. Photographs are to be submitted to the Engineer for approval prior to the start of construction.

PART 2 – PRODUCTS

PART 3 – EXECUTION

3.1 UTILITY AND STREET CONSTRUCTION SITES

- A. Prior to start of construction provide sufficient photographs to adequately show the existing facilities and conditions within and adjacent to the construction Site to serve as a guide for final restoration including:
 - 1. Roads including shoulders and/or curb and gutter.
 - 2. Sidewalks, parking areas, and driveways.
 - 3. Utility structures.
 - 4. Landscaping including signs, plantings, walls, fences, trees, shrubbery, etc.
 - 5. Mailboxes.
 - 6. Drainage facilities including culverts, inlets, ditches.
 - 7. Building structures.
- B. During construction provide sufficient photographs (a minimum of one per 100 feet of installed utility) to adequately show construction means, methods, and Site conditions including:
 - 1. Crossings of other utilities.
 - 2. Exposure of existing structures.
 - 3. Soil conditions.

END OF SECTION

1/9/2020 01 32 33-1 Construction Photographs

SECTION 01 33 00

SUBMITTALS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for submittals:
 - 1. Progress Schedule.
 - 2. Schedule of Shop Drawings and Sample Submittals.
 - 3. Shop Drawings.
- B. Failure to meet Submittal requirements to the satisfaction of the Engineer will constitute unsatisfactory performance of the work in accordance with the Contract Documents, therefore, the Engineer may recommend to the Owner that all or a portion of payments requested during the corresponding pay period be withheld until these requirements are met.

1.2 SUBMITTAL PROCEDURES

- A. Coordination: Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
 - 1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
 - 2. Coordinate transmittal of different types of submittals for related elements of the work so processing will not be delayed by the need to review submittals concurrently for coordination.
 - a. The Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
 - 3. To avoid the need to delay installation as a result of the time required to process submittals, allow sufficient time for submittal review, including time for re-submittals.
 - a. Allow two weeks for initial submittal.
 - b. Allow two weeks for reprocessing each submittal.
 - c. No extension of Contract Time will be authorized because of failure to transmit submittals to the Engineer sufficiently in advance of the work to permit processing.
- B. Submittal Preparation: Place a permanent label or title block on each submittal for identification. Indicate the name of the entity that prepared each submittal on the label or title block.
 - 1. Assign a reference number to each submittal and re-submittal.
 - 2. Provide a space approximately four (4) by five (5) inches (100 by 125 mm) on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.
 - 3. Include the following information on the label for processing and recording action taken.
 - a. Project name.
 - b. Date.
 - c. Name and address of the Engineer.
 - d. Name and address of the Contractor.
 - e. Name and address of the subcontractor.
 - f. Name and address of the supplier.

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- g. Name of the manufacturer.
- h. Number and title of appropriate Specification Section.
- i. Drawing number and detail references, as appropriate.
- 4. Each submittal shall be stamped by the Contractor indicating that submittal was reviewed for conformance with the Contract Documents. The Engineer will not accept unstamped submittals.
- C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal to the Engineer. The Engineer will not accept submittals received from sources other than the Contractor.
 - 1. On the transmittal, record relevant information and requests for Engineer action. On a form, or separate sheet, record deviations from Contract Document requirements, including variations, limitations, and justifications. Include Contractor's certification that information complies with Contract Document requirements.

1.3 CONTRACTOR'S PROGRESS SCHEDULE

- A. Prepare and submit to the Engineer within 10 (ten) days after the Effective Date of the Agreement, four copies of a preliminary progress schedule of the work activities from Notice to Proceed until Substantial Completion.
 - Provide sufficient detail of the work activities comprising the schedule to assure adequate
 planning and execution of the work, such that in the judgment of the Engineer, it provides an
 appropriate basis for monitoring and evaluation of the progress of the work. A work activity
 is defined as an activity which requires substantial time and resources (manpower, equipment,
 and/or material) to complete and must be performed before the contract is considered
 complete.
 - 2. The schedule shall indicate the sequence of work activities. Identify each activity with a description, start date, completion date and duration. Include, but do not limit to the following items, as appropriate to this contract:
 - a. Shop drawing review by the Engineer.
 - b. Excavation and grading.
 - c. Asphalt and concrete placement sequence.
 - d. Restoration.
 - e. Construction of various segments of utilities.
 - f. Subcontractor's items of work.
 - g. Allowance for inclement weather.
 - h. Contract interfaces, date of Substantial Completion.
 - i. Interfacing and sequencing with existing facilities and utilities.
 - j. Sequencing of major construction activities.
 - k. Milestones and completion dates.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.

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- C. Schedule Updating: Revise the schedule after each meeting, event, or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.
- D. Punch List: Prepare and submit to the Engineer within ten (10) days after substantial completion a detailed progress schedule for outstanding work and punch list items.

1.4 SCHEDULE OF SHOP DRAWINGS AND SAMPLE SUBMITTALS

- A. Submit four (4) hard copies or electronic copies of preliminary submittal schedule in accordance with the General Conditions of the Contract and as follows:
 - 1. Coordinate submittal schedule with the subcontractors, Schedule of Values, and of products as well as the Contractor's Progress Schedule.
 - 2. Prepare the schedule in chronological order. Provide the following information:
 - a. Scheduled date for the first submittal.
 - b. Related Section number.
 - c. Submittal category (Shop Drawings, Product Data, or Samples).
 - d. Name of the subcontractor.
 - e. Description of the part of the work covered.
 - f. Scheduled date for the Engineer's final release or approval.
- B. Distribution: Following response to the initial submittal, print and distribute copies of the revised construction schedule to the Engineer, Subcontractors, and other parties required to comply with scheduled dates. Post copies in the field office. When revisions are made, distribute to the same parties. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.
- C. Schedule Updating: Revise the schedule after each meeting or activity where revisions have been recognized or made. Issue the updated schedule concurrently with the report of each meeting.

1.5 SHOP DRAWINGS

- A. Submit newly prepared information drawn accurately to scale. Highlight, encircle, or otherwise indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not a Shop Drawing.
- B. Collect product data into a single submittal for each element of construction of system. Product data includes printed information, such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams, and performance curves.
 - 1. Mark each copy to show actual product to be provided. Where printed Product Data includes information on several products that are not required, mark copies to indicate the applicable information. Include the following information:
 - a. Manufacturer's printed recommendations.
 - b. Compliance with trade association standards.
 - c. Compliance with recognized testing agency standards.
 - d. Application of testing agency labels and seals.

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- e. Notation of dimensions verified by field measurement.
- f. Notation of coordination requirements.
- C. Do not use shop drawings without an appropriate final stamp indicating action taken.
- D. Submittals: Submit four (4) copies of each required submittal. The Engineer will retain two (2) copies, and return the others to the Contractor marked with action taken and corrections or modifications required.
- E. Distribution: Furnish copies of reviewed submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms. Maintain one copy at the project site for reference.
 - 1. Do not proceed with installation until a copy of the Shop drawing is in the Installer's possession.
 - 2. Do not permit use of unmarked copies of the Shop Drawing in connection with construction.

1.6 ENGINEER'S ACTION

- A. Except for submittals for the record or information, where action and return is required, the Engineer will review each submittal, mark to indicate action taken, and return promptly. The Engineer will stamp each submittal with a uniform action stamp. The Engineer will mark the stamp appropriately to indicate the action taken, as follows:
 - 1. "No Exceptions Taken": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.
 - 2. "Make Corrections Noted": The work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents.
 - 3. "Amend and Resubmit": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Amend and Resubmit" at the Project Site or elsewhere where work is in progress.
 - 4. "Rejected See Remarks": Do not proceed with work covered by the submittal. Resubmit without delay. Do not use, or allow others to use, submittals marked "Rejected and Resubmit" at the Project Site or elsewhere where work is in progress.
- B. Unsolicited Submittals: The Engineer will return unsolicited submittals to the sender without action.

PART 2 – PRODUCTS

PART 3 – EXECUTION

END OF SECTION

1/9/2020 01 33 00-4 Submittals

SECTION 01 41 00

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Underground Utilities.
 - 2. Property Monuments.
 - 3. Traffic Control.
 - 4. Permits for Project.

1.2 UNDERGROUND UTILITIES

A. Under the provisions of Wisconsin Statutes, Section 182.0175, all contractors, subcontractors, and any firm or individual intending to do work on this Contract shall contact all utility firms in the affected area of construction a minimum of three (3) working days prior to beginning construction so that affected utilities will be located and marked.

1.3 PROPERTY MONUMENTS

- A. Protect iron pipe monuments from movement.
- B. The cost of replacement of any monuments moved or destroyed during construction shall be the Contractor's responsibility.
- C. Perpetuation of destroyed or moved monuments shall be performed in accordance with state statutes by a registered land surveyor.

1.4 TRAFFIC CONTROL

- A. Provide traffic control facilities including barricades, signs, lights, warning devices, pavement markings, flaggers, etc.
- B. Construct and use traffic control facilities in accordance with the U.S. D. O. T. Federal Highway Administration's Manual on Uniform Traffic Control Devices for Streets and Highways.
- C. Maintain traffic control devices as required to properly safeguard the public travel through final completion, including during periods of suspension of work.

1.5 PERMITS FOR PROJECT

- A. Any Brown County lane closure permits required for the following: (the City will obtain permits once the schedule is established):
 - a. Any lane closures on Scheuring Road and Grant Street to accommodate colored concrete sealing

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Project 20-06 Concrete Street Repairs **City of De Pere**

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SECTION

1/9/2020 01 41 00-2 Regulatory Requirements

SECTION 01 71 23

FIELD ENGINEERING

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Engineering Surveys Provided by the Engineer.
 - 2. Engineering Surveys Provided by the Contractor.

1.2 SUBMITTALS

A. None

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.1 PREPARATION

- A. Investigate and verify the existence and location of site improvements, utilities, and other existing facilities.
- B. Before construction, verity the location of invert elevations at points of connection of sanitary sewer, storm sewer, water piping and underground electrical services.
- C. Furnish information to the Engineer and the appropriate utility regarding conflicts that are necessary to adjust, move, or relocate existing utility structures, utility poles, lines, services, or other utility appurtenances located in or affected by construction.
- D. Provide the Engineer two (2) working days advance notification when ready for engineering surveys for construction to be provided by the Engineer.

3.2 ENGINEERING SURVEYS TO BE PROVIDE BY THE ENGINEER

A. General

- 1. Establish benchmarks for construction as shown on the drawings.
- 2. Establish control points as shown on the drawings.
- B. Gravity Sewer Systems and Water Distribution Systems
 - 1. Provide construction reference stakes set for pipe construction location at critical changes in horizontal and vertical alignment.
 - 2. Provide construction stakes for location of pipe at connections.

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C. New Road Construction

- 1. Provide construction slope intercept stakes for horizontal and vertical alignment on each side of the road base on each cross section in the cross section sheets for requests received at least seventy-two (72) hours before the related work begins.
- 2. Provide construction reference stakes for subgrade at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for subgrade at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference line stake at each location.
- 3. Provide construction reference stakes for top of crushed aggregate at a minimum of fifty (50) foot intervals and maximum of one-hundred (100) foot intervals on tangents. Provide construction reference stakes for top of crushed aggregate at twenty-five (25) foot intervals within vertical and horizontal curves. Provide a reference or centerline stake.

3.3 ENGINEERING SURVEYS TO BE PROVIDED BY THE CONTRACTOR

A. General

- 1. Locate, preserve and protect established construction reference stakes, benchmarks and control points.
- 2. Locate, preserve and protect property corners and section corner monuments. If moved or destroyed due to Contractor negligence, then replace in accordance with state requirements; some of which are referenced in the "Regulatory Requirements".
- 3. Provide additional construction staking as necessary to complete construction based on the construction reference stakes provided by the Engineer and the Drawings.
- 4. Before beginning with necessary construction staking, verify the information shown on the Drawings, in relation to the established construction reference stakes, bench marks, control points and property corners. Notify the Engineer of any discrepancies.
- 5. Remove construction reference stakes when directed by the Engineer.

B. Gravity Sewer Systems and Water Distribution Systems

- 1. Provide any intermediate construction reference points as required to verify installation at the line and grade established and locate appurtenant structures.
- 2. Check the line and grade with construction reference stakes at each pipe length.

C. New Road Construction

1. Provide additional construction reference stakes necessary to establish location and grade in accordance with the plans.

END OF SECTION

1/9/2020 01 71 23-2 Field Engineering

SECTION 03 35 33

STAMPED COLORED CONCRETE FINISHING

1.1 SUMMARY

- A. Section Includes:
 - 1. Constructing stamped colored concrete.

1.2 REFERENCES

A. WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

1.3 SUBMITTALS

- A. Design Mixes
 - 1. Submit copies of the composition and strength testing results for design mix for each type of concrete.
- B. Certificates
 - 1. Manufacturer's certification of the curing compound.
 - 2. Manufacturer's certification of evaporation retarders.
 - 3. Manufacturer's certification of sealer with sure grip.

C. Samples

1. Provide all material samples needed for the required testing.

1.4 QUALITY ASSURANCE

A. Independent testing will be completed by the Owner.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Concrete shall be in accordance with the Standard Specifications.
- B. The stamping pattern shall be Belgian Basket Weave used brick.
- C. The coloring admixture shall be WisDOT Red, conforming to Section 405 of the WisDOT Standard Specification for Highway and Structure Construction.
- D. The maximum amount of chert allowed shall be less than one percent (1.0%) by weight.
- E. The City of De Pere will provide three sets of six basic concrete stamping and patterning tools. The contractor shall provide other tools necessary to complete the work.

- F. Evaporation retarders: Waterborne monomolecular film forming manufactured for application to fresh concrete, Dayton Superior Day-Chem Sure Film J-74 or equal.
- G. Form Release Agent.
- H. AK-2 ACHRO KURE 1315 sealer with sharp grip added.
- I. Curing and sealing materials shall be compatible with colored concrete as recommended by the manufacturer.

PART 3 – EXECUTION

3.1 PLACING AND FINISHING CONCRETE

- A. Construct stamped colored concrete pavement in accordance with the standard specifications and as hereinafter provided. The coloring of the concrete shall be full depth color, not surface application
- B. The City of De Pere will provide the decorative stamping and patterning tools for stamping the concrete. The City has 21 rigid stamps and 3 flexible stamps. The stamps owned by the City are Belgian Basket Weave used brick. If the Contractor needs to purchase more stamps to perform the work, the additional stamps purchased shall be considered incidental to the stamped colored concrete. Return the concrete stamping and patterning tools to the City once work is complete. Return concrete stamping and patterning tools in good condition. If the concrete stamping and patterning tools are not returned to the City in good condition the contractor shall replace the stamping and patterning tools.
- C. Provide all other standard finishing tools for stamping the colored concrete.
- D. Colored concrete shall be produced in one (1) cubic yard increments. No ½ cubic yard loads will be accepted.
- E. Water/cement in mix design shall be consistent to maintain consistent color.
- F. Colored concrete mixes for the entire project shall be consistent. If the mix is started with High Early Strength then all colored concrete shall be provided as High Early Strength. Switching from regular colored concrete to High Early Strength colored concrete or High Early Strength colored concrete to regular colored concrete will not be allowed.
- G. Once pouring of the colored concrete on the project has begun, cement switching in the colored concrete will not be allowed because it will affect the color consistency of the colored concrete.
- H. Any additional water added to colored concrete once the truck is on site will be rejected.
- I. Blessing of the colored concrete pavement with water once concrete is in place will not be allowed. If water is added to the surface of the colored concrete surface once concrete is in place, the colored concrete will be rejected and will need to be removed.

- J. Evaporation reducers will be used throughout the construction of the colored concrete.
- K. Cover and protect adjacent construction and concrete from discoloration and spillage during placement of colored concrete, application of release agents, and sealers.
- L. Liquid release agent shall be uniformly applied onto the colored still plastic state concrete to provide clean release of imprinting tools from the concrete surface without lifting imprint or tearing concrete.
- M. While initially finished concrete is in plastic state, accurately align and place imprinting stamps. Monitor the setting up of the concrete. Once the concrete has set to the point it can be stamped the contractor shall begin stamping. Uniformly pound or press imprint tool into concrete to produce required pattern and depth of imprint on concrete surface. Remove platform tools immediately. Hand texture and stamp edges and surfaces unable to be imprinted by stamp mats. Touch up imperfections such as broken corners, double imprints and surface cracks.
- N. Stamp concrete consistently so that stamped concrete does not have a vertical elevation difference of ½ inch or depressions in concrete capable of causing ponding water or ice.
- O. For concrete hand stamp edges and surfaces that are unable to be imprinted by platform tools, use texture mats and single blade hand stamps to match platform tool stamping pattern. Finished imprinting shall match pre-construction mock-up.
- P. After concrete has been stamped and the sheen has left the surface of the colored concrete, the colored concrete shall be sealed with AK-2 ACHRO KURE 1315 with sharp grip added. Apply per manufacturer's recommendations. Two coats of seal shall be applied. Apply second coat after first coat has dried. Do not seal over blemishes or imperfections caused by rainfall or protection materials.
- Q. In general colored concrete must be protected from premature drying and excessive cold or hot temperatures. Apply evaporation retarders to concrete surfaces only if hot, dry, or windy conditions causing a moisture loss approaching 0.20lb./sq.ft. x h before and during initial finishing operations. Apply according to manufacturer's written instructions after placing and screeding and during initial floating operations.
- R. Protect the colored concrete from damage.
- S. Adjacent concrete that is discolored shall be removed and replaced to the approval of the engineer.

END OF SECTION

SECTION 10 14 53

RECTANGULAR RAPID-FLASH BEACONS

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Vendors
 - 2. Installation

1.2 REFERENCES

- A. State of Wisconsin, Department of Transportation, Standard Specifications for Highway and Structure Construction, current edition, and all supplemental and interim supplemental specifications, as they may pertain, except the items: method of measurement and basis of payment shall not apply.
- B. Wisconsin Manual on Uniform Traffic Control Devices Chapter 4L

1.3 SUBMITTALS

- A. Submit manufacturer's certification for each product stated that products delivered comply with the requirements of this section and the referenced standard.
- B. Product warranty information.

PART 2 – PRODUCTS

2.1 VENDORS

- A. Rectangular Rapid-Flash Beacons (RRFBs)
 - 1. RRFB Pedestrian Crosswalk Systems shall be purchased from Traffic & Parking Control Co., Inc. or Engineer approved equal.
 - 2. Systems shall include the following:
 - a. Side of pole control cabinet.
 - b. 55 watt solar panel.
 - c. 48Ah battery
 - d. Stainless steel pole mounting hardware.
 - e. Bulldog push button
 - f. Blinkerbeam wireless communication
 - g. LED units with wig-wag and simultaneous flash pattern.
 - h. 15-foot 4-1/2 OD round aluminum pole
 - i. 24"x24", fluorescent yellow, W11-2 pedestrian crossing sign(s).
 - j. 24"x12", fluorescent yellow, W-16-7pL/R plaques.
 - k. Pole base shall be breakaway.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Furnish and install RRFBs and all necessary miscellaneous accessories and hardware to complete the installation of the beacons.
- B. Signs facing one-way traffic will only require single sided RRFB lights and pedestrian crossing signs/plaques. Signs abutting two-way traffic will require back-to-back RRFB lights and pedestrian crossing signs/plaques.
- C. Signs shall be mounted on Type 1 concrete base per WisDOT SDD 9c2.
- D. Follow the manufacturer's instructions regarding the RRFB system installation.

END OF SECTION

SECTION 32 01 29.61

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR – JOINT REPAIR, CRACK REPAIR, SURFACE REPAIR, FULL DEPTH ADJUSTMENT

PART 1 – GENERAL

1.1 SUMMARY

A. Section Includes

- 1. Sampling and Testing
- 2. Surface Preparation
- 3. Placing and Finishing Portland Cement Concrete Pavement

1.2 REFERENCES

- A. American Society for Testing Materials (ASTM)
- B. WisDOT Standard Specification for Highway and Structure Construction, Latest Edition

1.3 SUBMITTALS

A. Design Mixes

- 1. Submit copies of the composition and strength testing results for design mix for each type of concrete.
- 2. Manufacturer's certification of the curing compound.

B. Certificates

- 1. Provide producer's certification that the supplied materials meet the applicable specification requirements.
- 2. Provide the material content per cubic yard for each class of concrete furnished.
 - a. Dry weight of concrete.
 - b. Saturated surface-dried weights of fine and coarse aggregates.
 - c. Quantity, type, and name of any admixtures used.
 - d. Weight of water.
- 3. Provide delivery tickets for each batch in accordance with ASTM C94.
 - a. Delivery tickets are not required for job-mixed concrete.

C. Samples

1. Provide all material samples needed for the required testing.

1.4 QUALITY ASSURANCE

A. Independent testing will be completed by the Owner.

PART 2 – PRODUCTS

2.1 MATERIALS

A. Concrete

- 1. The replacement concrete shall comply with the standards specifications except as modified below. It shall be furnished, placed, and cured in accordance with the provisions in the plans, specifications, and contract.
 - a. Use the following proportions for 1 cubic yard (cubic meter) of concrete:
 - 1) 850 lb. (505kg) Portland Concrete (Type I or Type III)
 - 2) 1338 lb. (794 kg) Fine Aggregate (Per standard specifications except maximum P200-2.5%)
 - 3) 1338 lb.(794kg) Coarse Aggregate (See table below for gradation)
 - 4) These quantities assume a specific gravity of 2.65
 - b. Coarse Aggregate Gradation:

Sieve	% Passing
3/8	100
#4	55-95
#50	0-5
#200	0-1.0

- c. Maximum slump shall be 1 inch (25mm).
- d. Air Content shall be $6\% \pm 1.5$.
- e. ASTM C494 Type A admixture shall be used, unless Type E is used.
- f. ASTM C494 Type E admixture may be used, in accordance to the manufacturer's recommendations, to achieve the required opening strength in the desired time period. Dosage will vary with ambient temperature and desired opening time.
- g. The use of more than 50% of the maximum manufacturer's recommended dosage of Type E admixture will require the concrete to be sprayed with curing compound and covered with wet burlene.

B. Compression Relief Material

1. Provide compression relief material that is made of a rigid, compressible, non-absorbent material.

C. Bonding Agent

1. Use bonding grout that consists of equal portions of Portland cement and sand, mixed with sufficient water to form slurry having the consistency of thick cream.

D. Concrete Curing Agent

1. Provide a concrete curing agent that is a resin of 100 percent poly-alpha-methylstyrene type curing compound meeting ASTM C309, Type 2, Class B specifications and conforming to all requirements according to the following table:

Properties	Minimum	Maximum
Total Solids, % by weight of compound	42	
Reflectance, % in 72 hours (ASTM E1347)	65	
Loss of Water, kg/m2 in 24 hours(ASTM C156)		0.15
Loss of Water, kg/m2 in 72 hours (ASTM C156)		0.40
Settling Test, ml/100ml in 72 hours		2
VOC Content, g/L		350
Infrared Spectrum, Vehicle	100% alpha-methylstyrene	

¹ Test Method on file at the Department's Materials Testing Lab.

2. Shelf life of the product shall be six months from date of manufacture. The product may be re-tested by the department's Materials Testing Lab and re-approved, if the physical and chemical properties have not changed, for an additional six months. However, the maximum shelf life shall not exceed one year form manufacture date.

2.2 EQUIPMENT

A. Concrete Milling

1. Removal of concrete for the items of concrete pavement partial depth repair, joint repair, and crack repair shall be performed using milling machines designed for milling concrete pavement. The milling head shall be a tapered V-head or rounded head. Milling machines that leave a vertical edge such as a traditional rock saw will not be allowed. Milling machines shall be equipped with a device for stopping at preset depths to prevent damage to dowel bars. Additionally, shroud the equipment to prevent discharge of any loosened material into adjacent work areas or live traffic lanes.

B. Air Chippers

1. Use air chippers or breakers for chipping the old concrete surface that have a total weight not exceeding 30 lbs (13.6 kg) and are equipped with flat, chisel-type points that have cutting edges not less than .75inch (19mm) or greater than 3 inches (76.2mm) wide.

C. Concrete Mixing

1. Use concrete mixing equipment that provides material of uniform consistency. Do not prepare site-mixed concrete more than ½ hour prior to placement. Do not prepare ready-mixed concrete more than 1 hour prior to placement.

D. Vibrators

1. Use mechanical vibrators that are capable of operating at frequencies sufficient to achieve thorough and uniform consolidation, but not less than 7000 impulses per minute. Have available at least one spare vibrator, in working order and of sufficient frequency, on the work site before concrete placement is started.

² The infrared scan for the dried vehicle from the curing compound shall match the infrared scan on file at the Department's Materials Testing Lab.

PART 3 – EXECUTION

3.1 JOINT PREPARATION

A. Before Placing Concrete

- 1. Remove the concrete by milling to the depths and dimensions as shown on the plan or as determined by the engineer, or both.
- 2. Milling may be accomplished either longitudinally or transversely to the joint, crack, or edge. The removal process must not damage dowel bars. In the event a dowel bar exhibits excessive corrosion, cut, or burn-off the bar.
- 3. The removal of the concrete surface in the designated repair areas shall have a minimum depth of 2 inches (50.8mm) with all deteriorated concrete removed to a maximum depth of one-half the pavement thickness, or the top of the dowel bars. Using air chippers, remove all cracked or deteriorated concrete exposed after milling to sound concrete. Chipping at the milled surface of the crack or joint shall be minimum 2 inches wide and shall be at a 1:1 slope.
- 4. When dowel bars are present, take precaution not to disturb unsound concrete below the tops of the dowels. If some of this unsound material is accidentally blown out during the cleaning process, fill in the voids with clean, dry sand.
- 5. Use air chippers only for final preparation of the repair area.
- 6. Storage of the removed material on the roadway will only be permitted in conjunction with a continuous removal and pick-up operation. During non-working hours, clear all the roadway of all materials and equipment.
- 7. The removed pavement shall become the property of the contractor and disposed of in accordance to subsection 204.3.1.3 of the WisDOT Standards Specifications.
- 8. Install pavement ties in accordance to subsection 416.3.6 of the WisDOT Standard Specifications.
- 9. Sandblast all exposed surfaces within 24 hours prior to concrete placement. If it rains prior to concrete placement, resandblast the repair areas. Additionally, clean the repair areas of loose material by air blasting before placing the bonding grout.

3.2 PLACING AND FINISHING CONCRETE

- A. Place and finish in accordance with the WisDOT Specification for Highway and Structure Construction.
- B. Coat surfaces of dowel bars to prevent bonding with the bar and the repair concrete. Take precaution to prevent contamination of existing concrete in the repair area.
- C. Place compression relief material to maintain the continuity of the existing crack or to reestablish the joint in a full-depth adjustment. Install compression relief material such that it remains in position and is tight to all edges during placement of the repair concrete. During concrete placement and vibrating, keep the compression relief material in contact with the bottom of the repair area. To ensure that cracks are reestablished in their original locations, scribe their locations on the adjoining pavement outside the removal area, prior to removal operations.
- D. Reestablish cracks and joints to a ¼-inch width, or to the existing crack or joint width, whichever is greater.

- E. Immediately prior to placing the concrete, coat the repair surface with bonding grout. The surface shall be completely dry for at least one-half hour before coating with bonding grout. If the surface isn't completely dry, dry the surface using heat to remove all moisture from the repair surface. Mix the grout by mechanical means and thoroughly brush it over the prepared concrete surface to ensure that all parts receive an even coating. No excess grout shall be permitted to collect in pockets. Place grout within 1 ½ hours of mixing. If the grout whitens, sandblast, and re-grout.
- F. Vibrate concrete as necessary to uniformly and thoroughly consolidate the entire mass of fresh concrete without causing segregation of the aggregates or the formation of localized areas of grout.
- G. Concrete repairs shall not protrude beyond the original cross-section of the pavement by more the 3/8 inch. The edges shall be formed or sawn full-depth.
- H. Strike-off the surface of the repaired area flush with the adjacent concrete and finish the surface to a uniform texture, true to grade and cross section and free from porous areas. As a final finishing operation, float the concrete toward the edges of the repair.
- I. While the concrete is still plastic, repairs shall be tested for trueness with a straightedge.
- J. Reestablish cracks using compression relief material to or beyond the surface of the repair. Initially reestablish joints in plastic concrete by using a jointing tool. Establish tooled joints to a minimum depth of 2 inches. Tooled edges shall be provided, adjacent to all compression relief material, in fresh concrete. Complete the removal of excess compression relief material above the pavement surface without damage to the repair area. The method of removal will be reviewed and approved by the engineer prior to any removal.
- K. Surface texturing, if required by the engineer, shall consist of a broomed finish in the long dimension direction of the repair.
- L. Apply curing compound to the fresh concrete as soon as possible. Apply the compound uniformly, at a minimum rate of one gallon per 100 square feet.
- M. Restore joints by sawing. Saw the joints in a single cut, to the width and depth shown on the plans, and in accordance to 415.3.7 of the WisDOT Standards Specifications.
- N. Thoroughly clean the joint or crack after sawing to remove loose compressible material.

END OF SECTION

SECTION 32 01 29.64

CROSS-STITCHING CONCRETE PAVEMENT

PART 1 – GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Epoxy Coated Bars
 - 2. Epoxy Grout

1.2 REFERENCES

- A. The International Grooving and Grinding Association (IGGA)
- B. WisDOT Standard Specifications for Highway and Structure Construction, Latest Edition

1.3 SUBMITTALS

- A. Epoxy Coated Tie Bars
- B. Epoxy Grout

PART 2 – PRODUCTS

2.1 MATERIALS

A. Epoxy Coated Tie Bars

1. Use epoxy coated tie bars that conform to the requirements prescribed in subsections 505.2.6.1 and 505.2.6.3 of the WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

B. Epoxy Grout

1. Use an epoxy grout conforming to the requirements prescribed in subsection 416.2.3.2 of the WisDOT Standard Specification for Highway and Structure Construction, Latest Edition.

2.2 EQUIPMENT

A. Concrete Drill

1. Use a drill with tungsten carbide bits. Control the forward and reverse travel of the drills by mechanically applied pressure. Mount the drill on a suitable piece of equipment such that is quickly transported and positioned. Rest and reference the drill rig frame on and to the pavement surface such that the drilled holes are cylindrical and repeatable in terms of position and alignment on the surface being drilled. Hand-held drills are not permitted.

3.1 CROSS-STITCHING

- A. Cross-Stitching consists of tying existing concrete pavement slabs together by drilling holes, installing and anchoring epoxy coated tie bars diagonally across longitudinal joint or cracks. Install tie bars as part of the cross-stitching operation in the existing concrete pavement as shown in the details and according to the specifications below.
- B. Drill the end holes in a slab at the offset, depth, and angle specified on detail drawing. Drill such that the hole centerlines are perpendicular to the joint or crack (in plan view) at each location being drilled. Adjacent holes are drilled in opposite directions across the crack. Hole diameters are no more than 3/8" larger than the tie bar diameter. Repair cracks and spalls that result from drilling with a partial or full-depth repair as directed by the Engineer.
- C. Clean drilling dust, debris, and excess moisture from drill holes before inserting the epoxy grout and tie bar. Clean holes with oil-free and moisture-free compressed air. The compressor must deliver air at a minimum pressure of 120 cubic feet per minute and develop a minimum nozzle pressure of 90 psi. Insert the nozzle into the back of the hole to force out all dust and debris.
- D. Inject the epoxy grout into the drill hole. Use grout with a workable viscosity, pump-able, and thick enough to remain in the hole. Insert enough volume of grout into the hole to provide a small quantity of material at the face of the concrete after fully inserting the bar.
- E. Use a positive fixed displacement dispensing system, equipped with a nozzle of sufficient length to deposit the epoxy at the back of the drilled hole. Use a system equipped with a means of checking the mix ratio of the epoxy components. Use the manufacturer's recommended mix ratio and check the ratio at least once a day.
- F. The contractor may use hand-powered mixing and injecting equipment capable of thoroughly mixing and depositing the epoxy grout at the back of the drill hole.
- G. Insert the tie bar such that the anchoring material is evenly distributed around the bar. Use an amount that slightly extrudes out the hole as the tie bar is inserted. Remove the excess and trowel the anchoring material smooth to the pavement surface, filling any chipped areas.
- H. Cross-Stitching Bar Dimensions and Angles/Locations of Holes shall be per the cross-stitching detail.

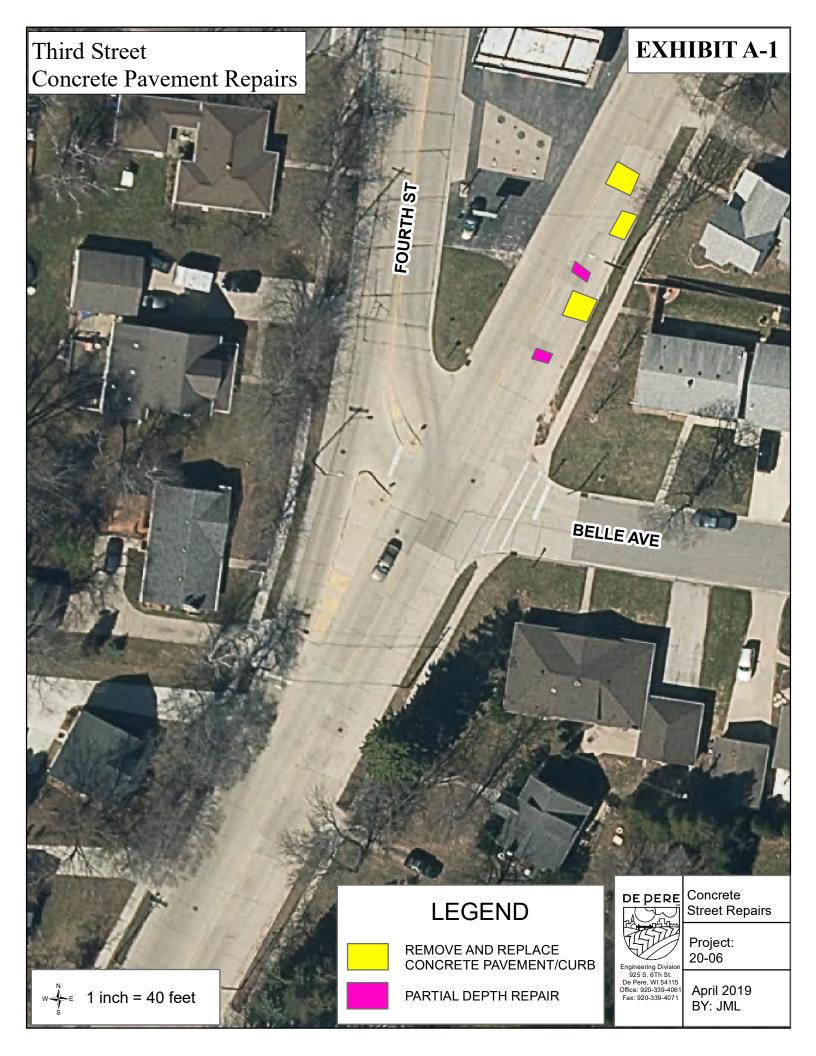
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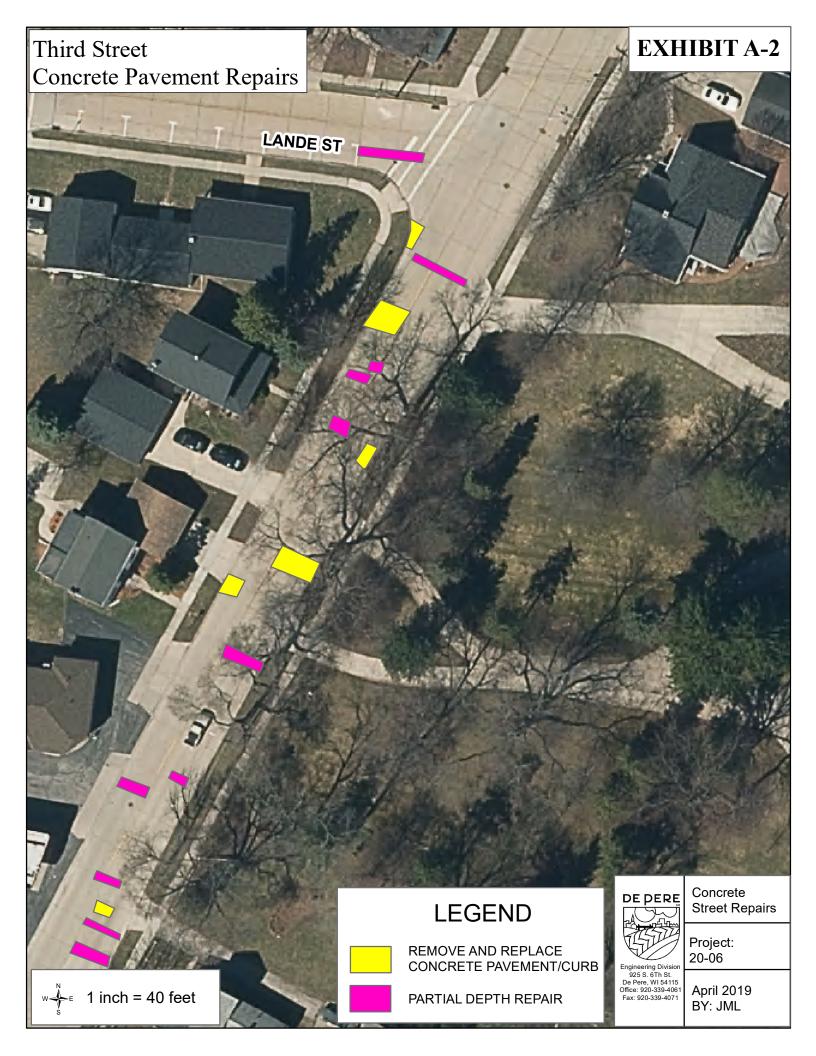
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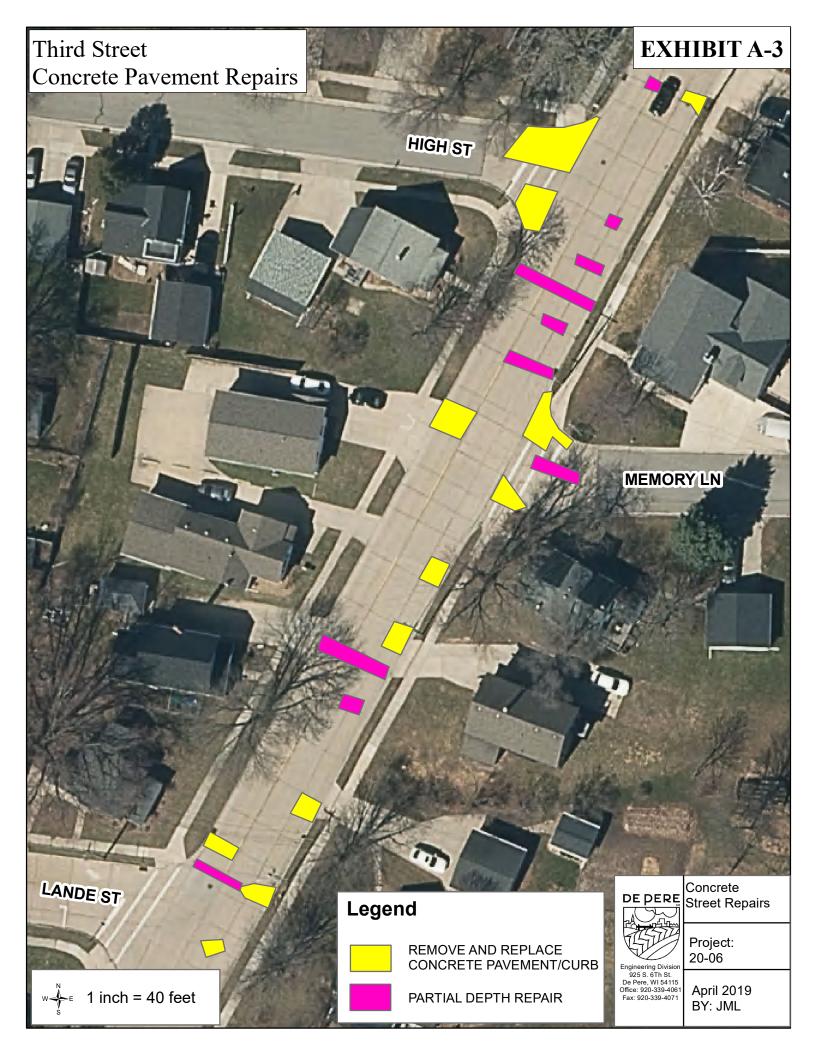
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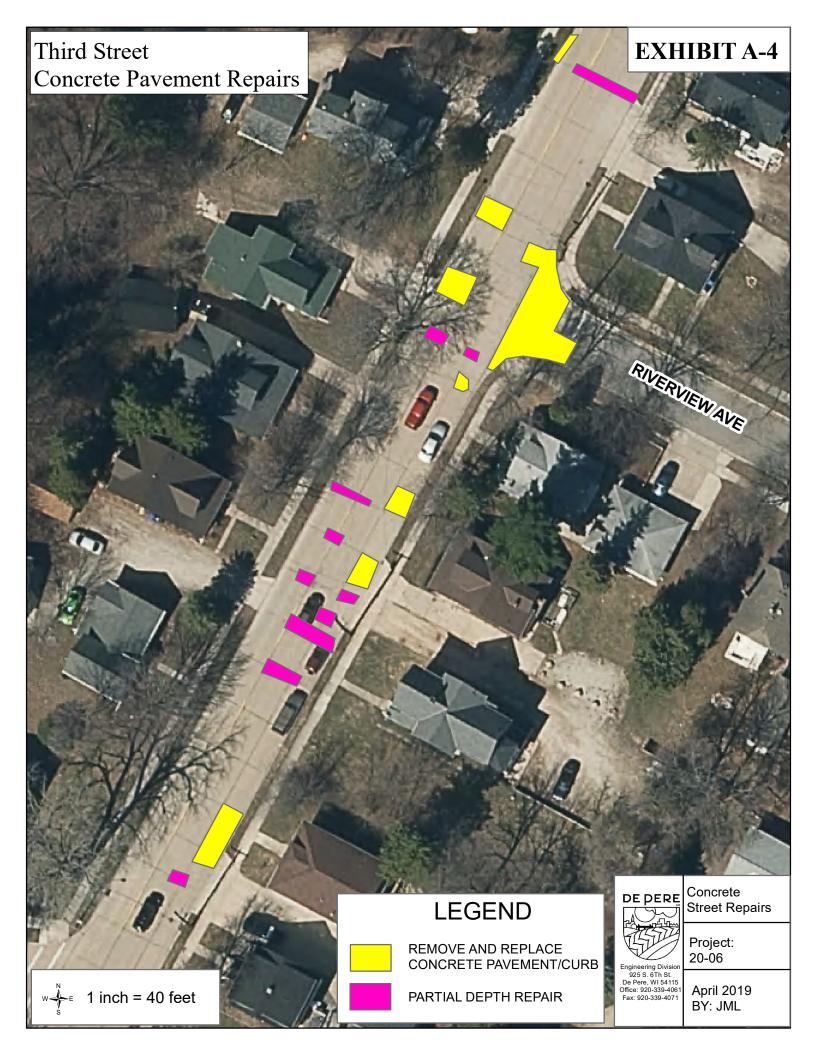
EXHIBIT A

THIRD STREET REHABILITATION PLAN SHEETS







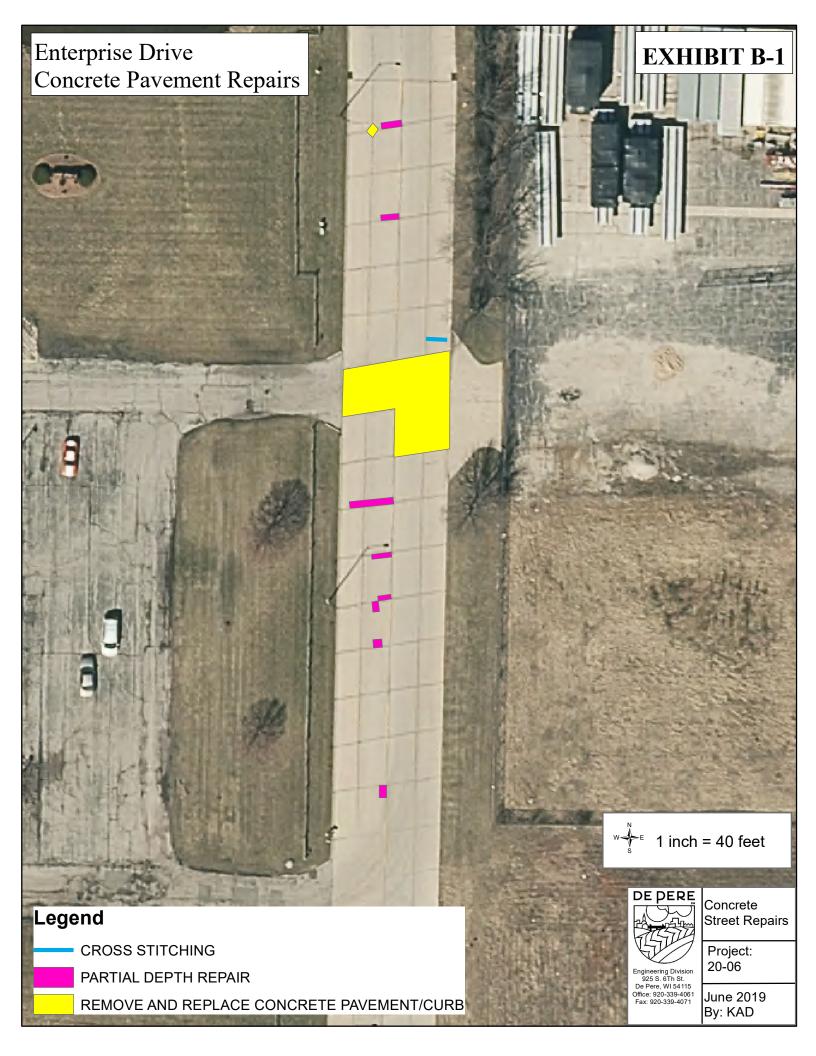


PROJECT 20-06

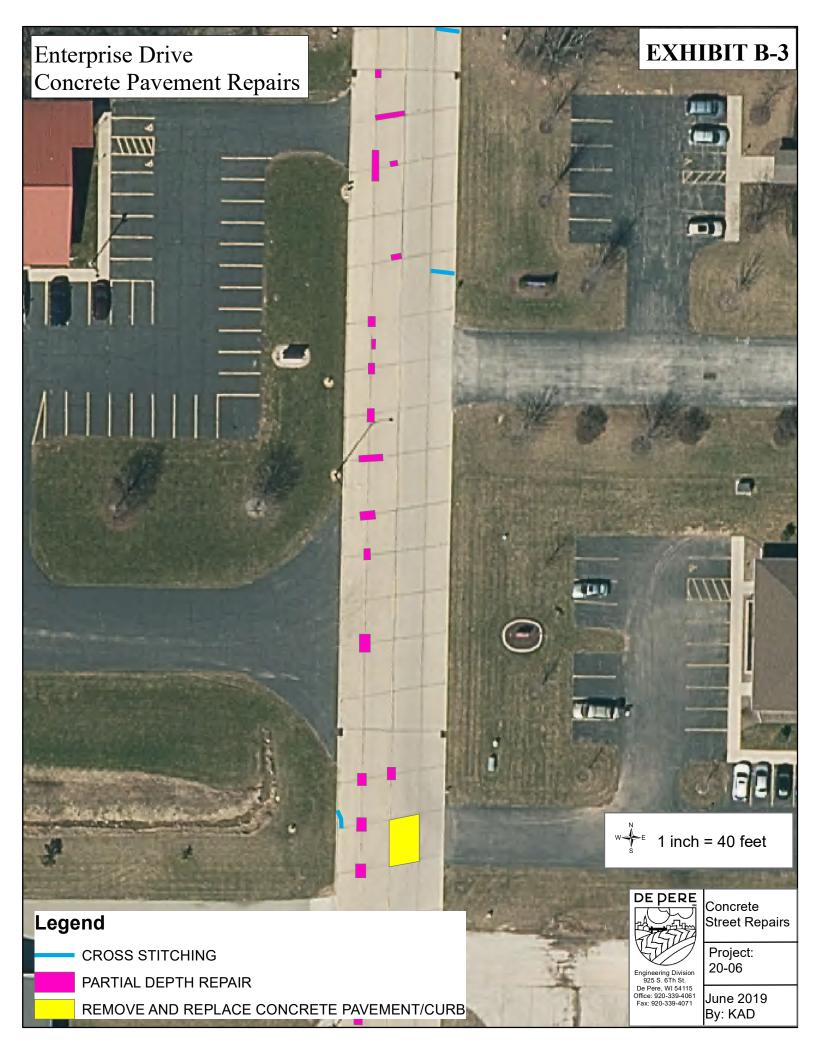
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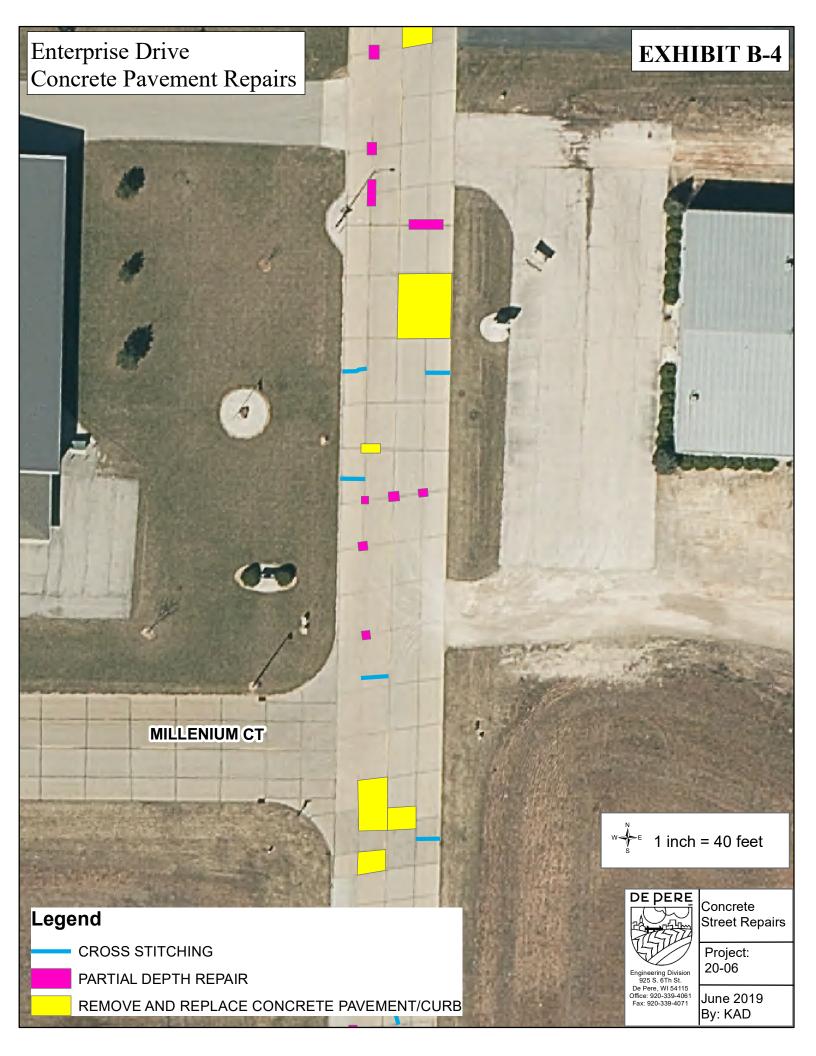
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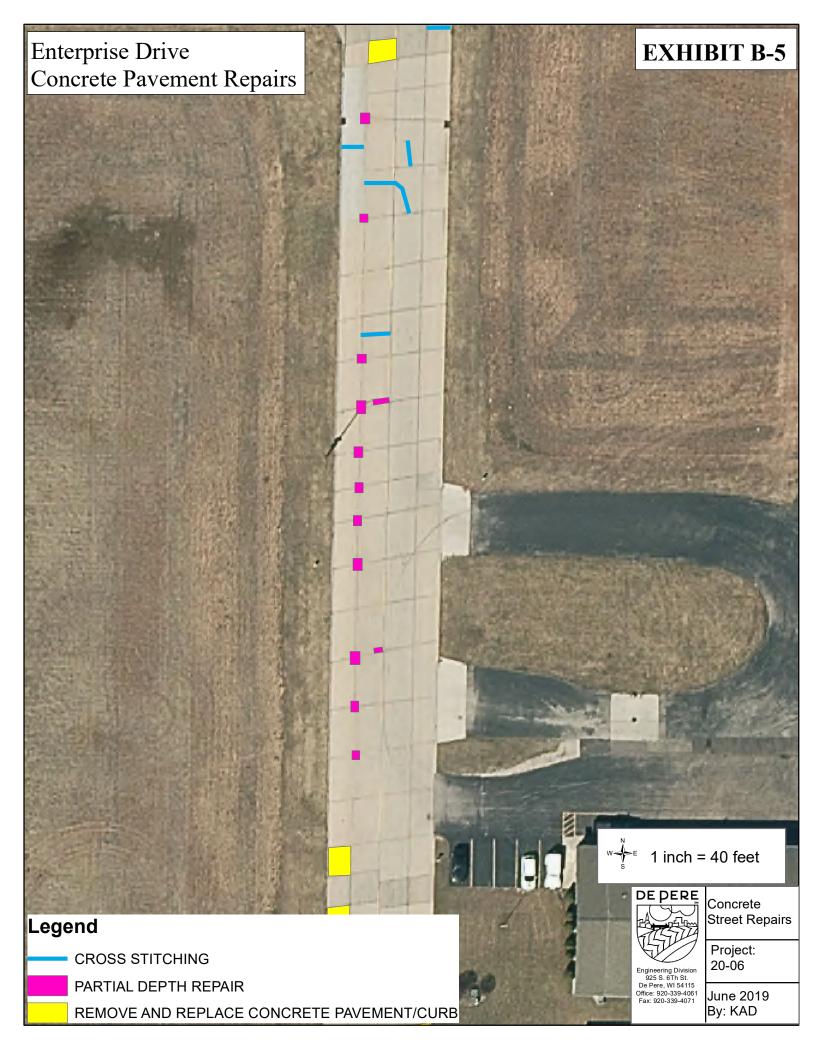
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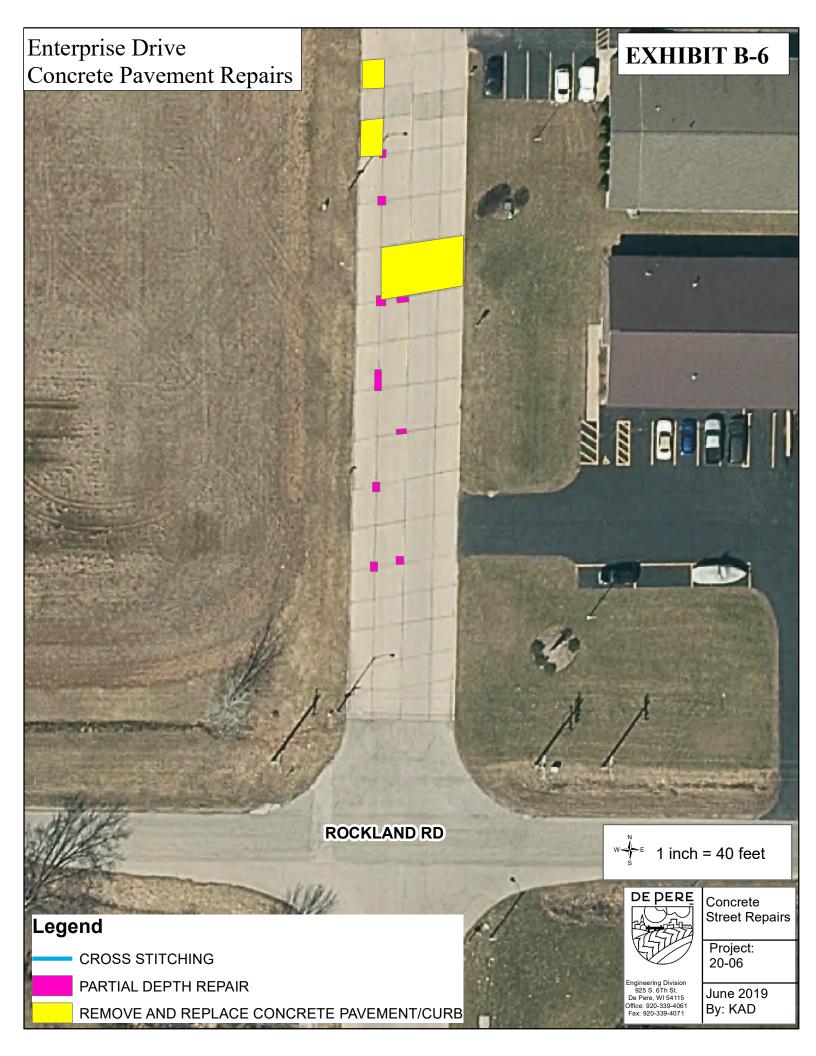












PROJECT 20-06

CONCRETE STREET REPAIRS

EXHIBIT C

WEST DE PERE REPAIR AREA PLAN SHEETS

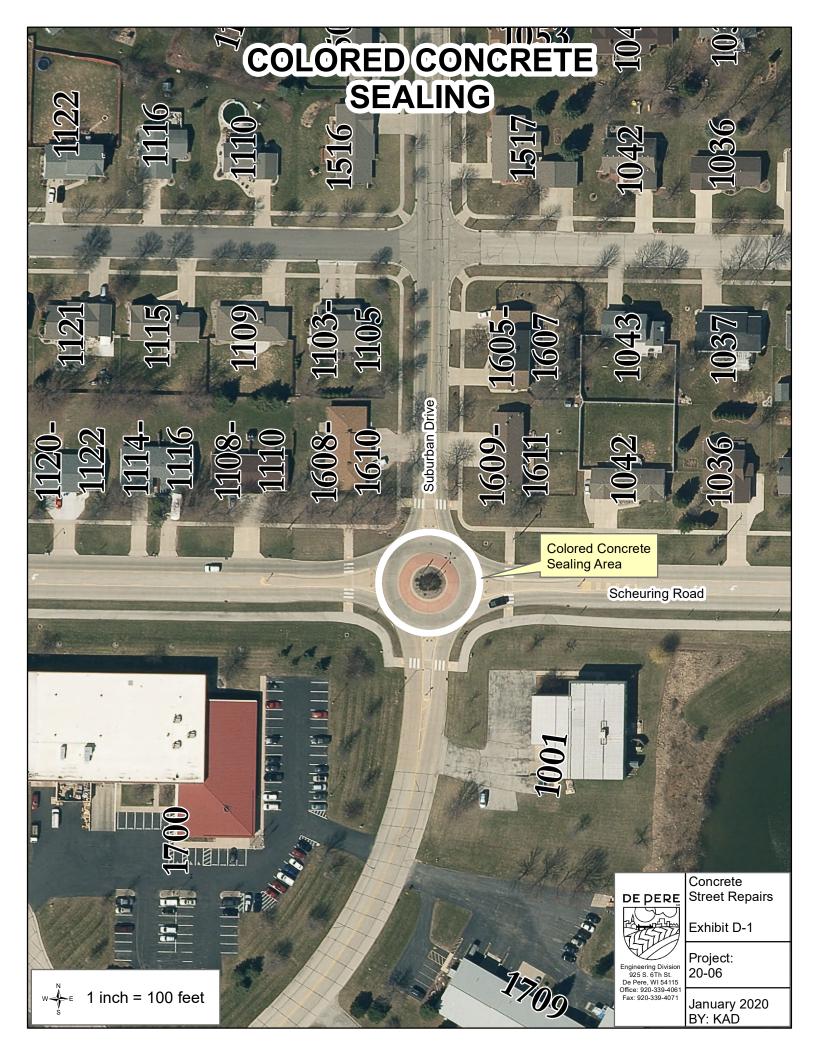


PROJECT 20-06

CONCRETE STREET REPAIRS

EXHIBIT D

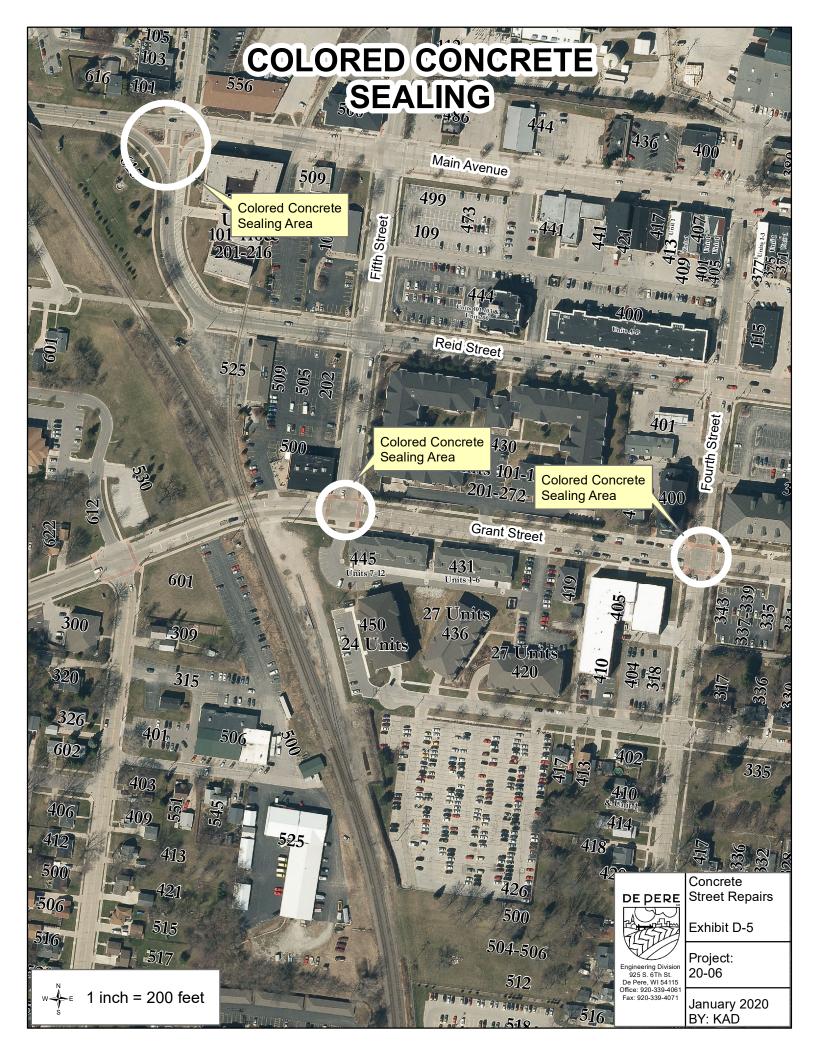
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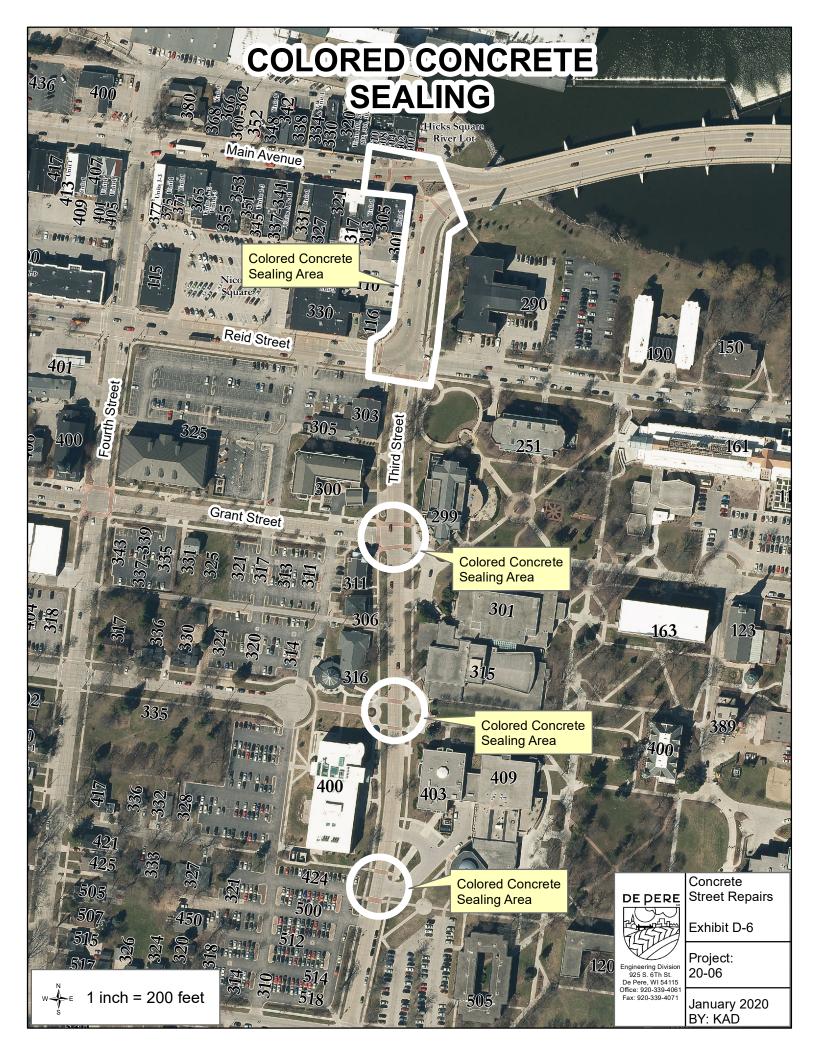










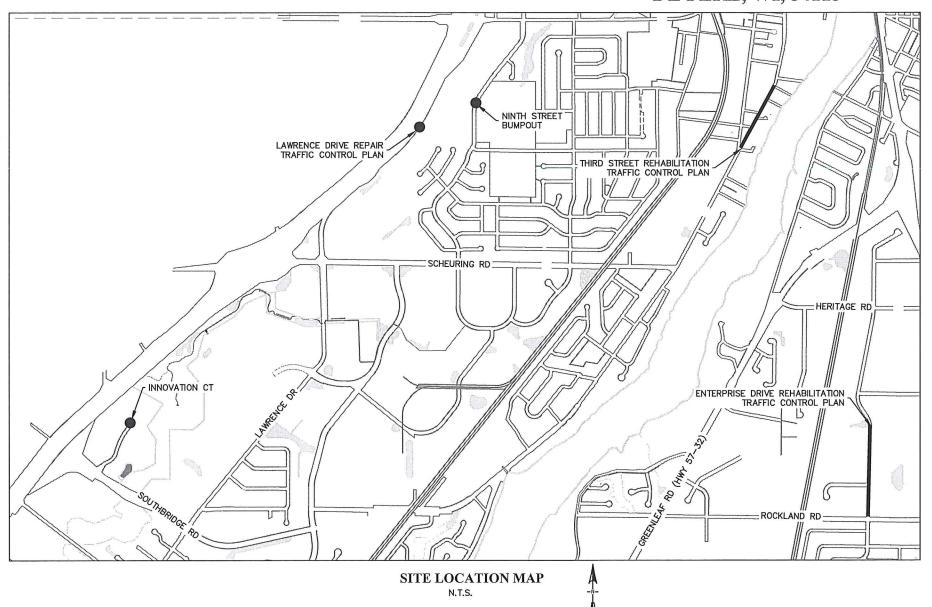


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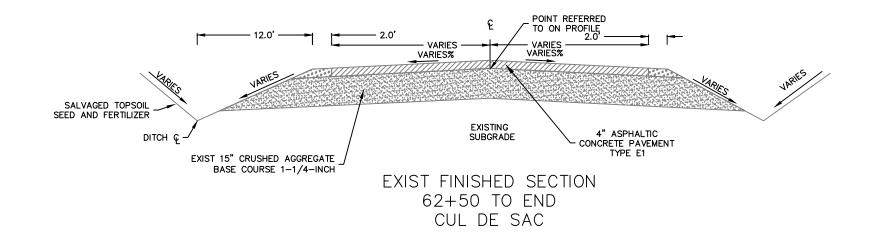


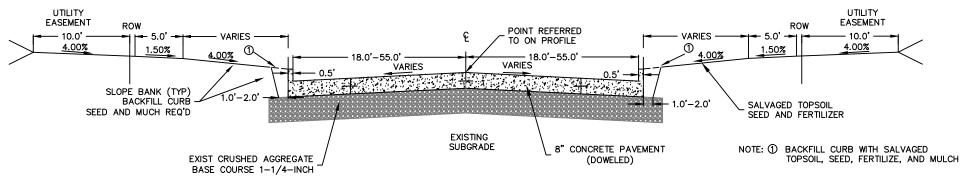
ENGINEER DIVISION 925 S. SIXTH ST DE PERE, WI, 54115



SHEET NO.	DESCRIPTION					
G001	TITLE SHEET					
G002	STANDARD ABBREVIATION & SYMBOLS					
G003	TYPICAL SECTIONS					
C100 - C101	PLAN AND PROFILE SHEETS					
C300 - C303	CROSS SECTIONS					
C500 - C502	PROJECT DETAILS					
C503 - C510	CONSTRUCTION DETAILS					
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LIST OF STANDARD ABBREVIATIONS MAPPING & TOPOGRAPHY SYMBOLOGY MAPPING & TOPOGRAPHY SYMBOLOGY DESCRIPTION **SYMBOL** DESCRIPTION SYMBOL AVERAGE DAILY TRAFFIC **EXISTING** PROPOSED PLAN BENCHMARK NORTHBOUND ASPH **ASPHALT** NC NE NORMAL CROWN (SIZE AND MATERIAL) BACK TO BACK BUSH EXISTING SANITARY SEWER LINE \blacksquare NOT TO SCALE BACK OF CURB NTS CATCH BASIN 100'-8" PVC SAN PROPOSED SANITARY SEWER LINE NW NORTHWEST сту CABLE TV BOX **BASFLINE** (SIZE AND MATERIAL) OIL AND CHIP BLDG BUILDING \triangle EXISTING STORM SEWER LINE CONTROL POINT BENCHMARK OBLIT OBLITERATE OUTSIDE DIAMETER OD PC BOW BACK OF SIDEWALK 100'-8" PVC STM E POINT OF CURVATURE ELECTRICAL BOX BASEMENT **BSMT** PROPOSED STORM SEWER LINE - ST POINT OF COMPOUND CURVE FROSION CONTROL - INFLT CURB AND GUTTER PCC PORTLAND CEMENT CONCRETE (SIZE AND MATERIAL) PED EXISTING WATER MAIN LINE PEDESTAL CENTER TO CENTER PERMANENT LIMITED EASEMENT FIELD INLET CRUSHED AGGREGATE BASE COURSE 100'-8" PVC WM (TEE-BEND) **PVMT** PAVEMENT CATCH BASIN CB CE PROPOSED WATER MAIN LINE PRIVATE ENTRANCE POINT OF INTERSECTION GAS VALVE PΕ G∨ CONSTRUCTION ENTRANCE PRE-FORMED JOINT FILLER HEDGE CENTERLINE EXISTING ELECTRICAL LINE PROPERTY LINE CORRUGATED METAL PIPE 黑 HYDRANT CNTY POC POINT OF CURVE POINT ON TANGENT COUNTY EXISTING GAS MAIN LINE POT IRON PIPE CONCRETE CONSTRUCTION 0 PRC POINT OF REVERSE CURVATURE CONSTR EXISTING TELEPHONE LINE LIGHTPOLE PRO. PROJECT \dot{x} CONSTRUCTION JOINT CONSTR JT PROF PROPOSED CONTROL POINT MAILBOX PSI PT POUND PER SQUARE INCH CTH COUNTY TRUNK HIGHWAY MB EXISTING CABLE TV LINE POINT OF TANGENCY CTRI JT CONTROL JOINT MANHOLE ELECTRIC POLYVINYL CHLORIDE RANGE OR RADIUS PVC CTV CABLE TV **(E)** EXISTING SANITARY LATERAL CUBIC YARD REINFORCED CONCRETE PIPE MANHOLE SANITARY (SS) DEPTH SS REBAR REINFORCEMENT BAR DIA DIAMETER EXISTING WATER SERVICE MANHOLE STORM DUCTILE IRON PIPE REL RELOCATE ST RFM REMAINING DISCHARGE REQUIRED MONTORING WELL RIGHT OF WAY REQD ROW ΜW DRIVEWAY REFERENCE LINE EAST (SEE ELEC BELOW) POWER POLE ROW RIGHT OF WAY PROPERTY LINE 0 — PL REFERENCE POINT ĒΒ **EASTBOUND** LIGHT POLE EXCAVATION BELOW SUBGRADE * EBS RT ECS EXTERNAL CHIMNEY SEAL EASEMENT — Esm —— — Esm — RETAINING WALL SIGN FI EVATION SOUTH ELECTRIC (E WHEN USED IN LINE STYLE) ELEC SIGNAL HEAD, TRAFFIC SIGNAL SILT FENCE EROSION CONTROL —⊓ — SALVAGE EMBANKMENT EMB SANITARY STANDARD, PEDESTAL BASE ENTR SB SDWK SOUTHBOUND EDGE OF PAVEMENT ___ FO EXISTING FIBER OPTIC SIDEWALK SIGNAL HEAD, TRAFFIC SIGNAL FW FNDWALL SOUTHEAS1 POLE, TRANSFORMER BASE **EXCAVATION** EXC ___ __ 615 . ___ __ SQUARE FEET EXISTING MAJOR CONTOUR **EXISTING** Σ STUMP SHI DE SHOULDER SQUARE YARD _____ 612 -____ FACE TO FACE EXISTING MINOR CONTOUR SS SSD **(e)** TELEPHONE MANHOLE FOUNDATION STOPPING SIGHT DISTANCE FIELD ENTRANCE – 615 — TEL PROPOSED MAJOR CONTOUR TELEPHONE PEDESTAL STA STD STATION STANDARD ~~~ ~~ ~~ **W** FINISHED GRADE TREE —— 612 —— STATE HIGHWAY TRUNK PROPOSED MINOR CONTOUR FL FO FLOWLINE STM STORM FIBER OPTIC SEWAGE TREATMENT PLANT WELL STP FRONT OF SIDEWALK STRUCT STRUCTURE OR STRUCTURAL **PROFILE** WATER SERVICE VALVE FTG FOOTING TAN TANGENT BUTTERFLY WATER VALVE 08 \bigcirc TOWN (T WHEN USED FOR TELEPHONE LINE) (SIZE AND MATERIAL) GAS VALVE **EXISTING SANITARY SEWER LINE** TEL TEMP TELEPHONE \otimes 8 TEMPORARY WATER VALVE HIGH DENSITY POLYETHYLENE HANDICAP RAMP HDPF TLE TEMPORARY LIMITED EASEMENT HSE HOUSE 100'-8" PVC SAN @ 0.40% PROPOSED SANITARY SEWER LINE TOP OF WATER **GENERAL CONSTRUCTION NOTES:** HEIGHT TRANS TRANSITION HYD HYDRANT INTERSECTION ANGLE ALL ELEVATIONS ARE REFERENCED TO NAVD 88. UNDERGROUND ICS (SIZE AND MATERIAL) EXISTING STORM SEWER LINE USH US HIGHWAY INSIDE DIAMETER VC VERT 2. THE WORK UNDER THIS CONTRACT SHALL BE IN ACCORDANCE WITH VERTICAL CURVE THE CITY OF DE PERE, CURRENT CONSTRUCTION SPECIFICATIONS AND INLET THESE SPECIAL PROVISIONS AND PLANS, AND THE LATEST ADDITION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARDS VOL VPC VOLUME 100'-8" PVC STM @ 1.0% INTERSECTION PROPOSED STORM SEWER LINE VERTICAL POINT OF CURVATURE SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION VPI VERTICAL POINT OF INTERSECTION IRON PIPE OR PIN SPECIFICATIONS, LATEST EDITION, WHERE REFERENCED IN THE CITY VERTICAL POINT OF REVERSE CURVE JCT JUNCTION **SPECIFICATIONS** VERTICAL POINT OF TANGENCY (SIZE AND MATERIAL) EXISTING WATER MAIN LINE LENGTH (OF CURVE) WEST LONG CHORD OF CURVE ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO WESTBOUND CONSTRUCTION AND SHALL CONFIRM TO THE WISCONSIN DEPARTMENT LIFT STATION OR LUMP SUM WATER SHUTOFF VALVE WATER TREATMENT PLANT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND PROPOSE 8" PVC WM WS0 PROPOSED WATER MAIN LINE TECHNICAL STANDARDS. MAINTENANCE EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT MATERIAL WASTE WATER TREATMENT PLANT MB MAII BOX PATCH SYMBOLS LOCATIONS AND ELEVATIONS OF ALL UTILITIES. WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES МН MANHOLE ASPHALTIC CONCRETE PAVEMENT CRUSHED AGGREGATE BASE COURSE OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION 44 3 PORTLAND CEMENT CONCRETE REVISIONS / ISSUES CITY OF DE PERE PAGE CONCRETE STREET NO. STANDARD ABBREVIATIONS REPAIRS ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 PROJECT # G-002AND SYMBOLS DESIGNED OFFICE 920-339-4060 FAX 920-339-4071 CHECKED





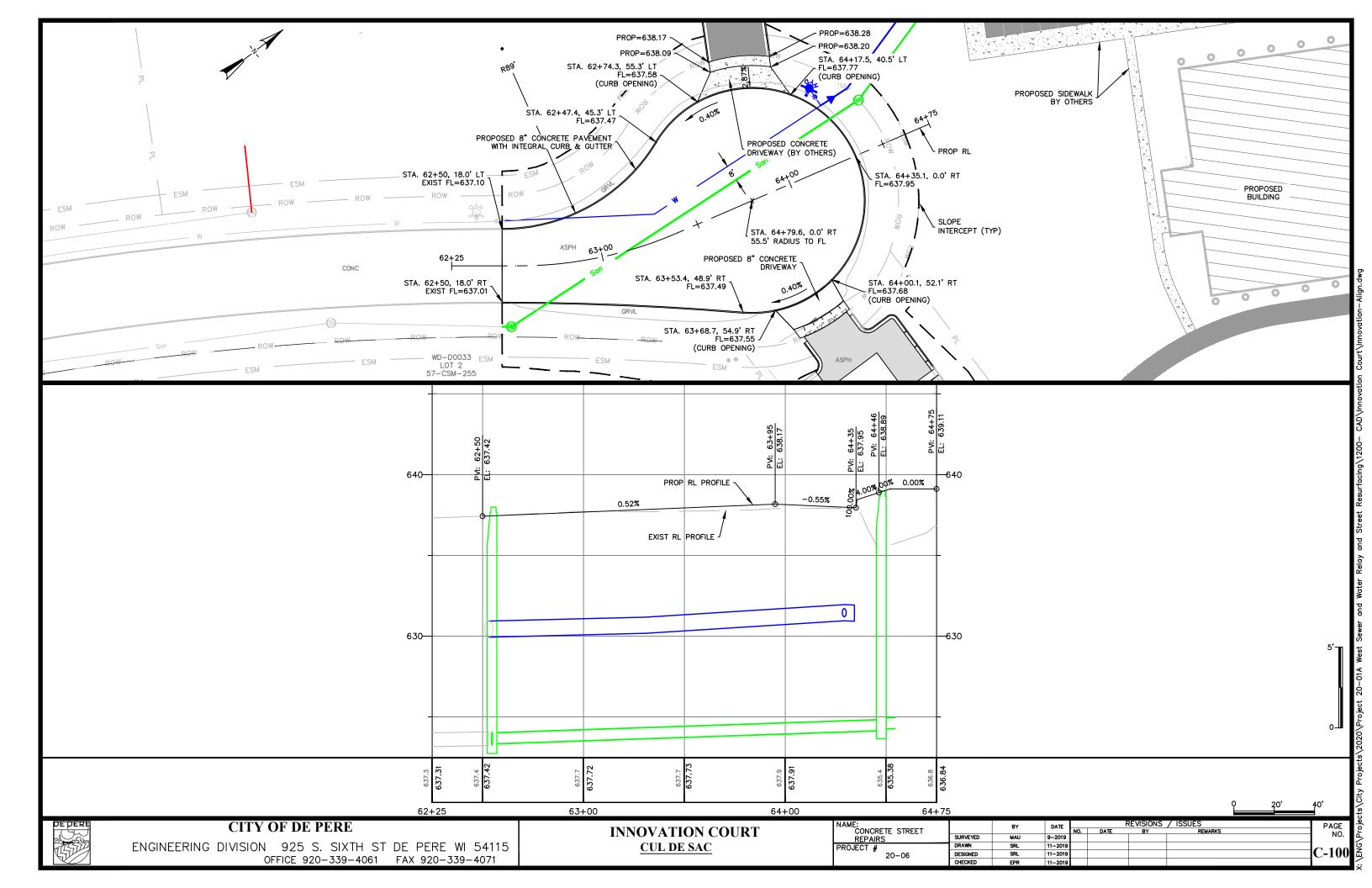
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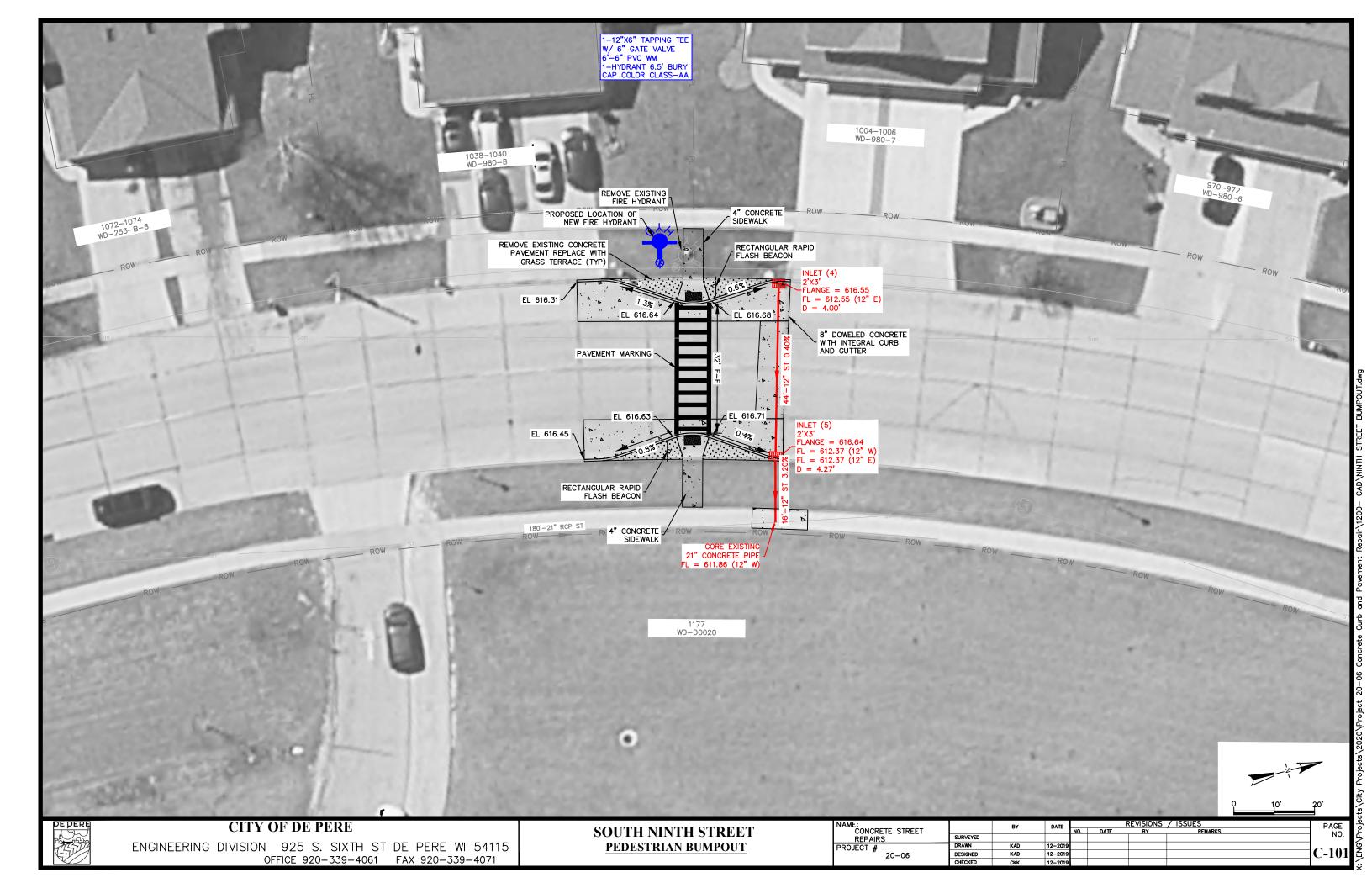
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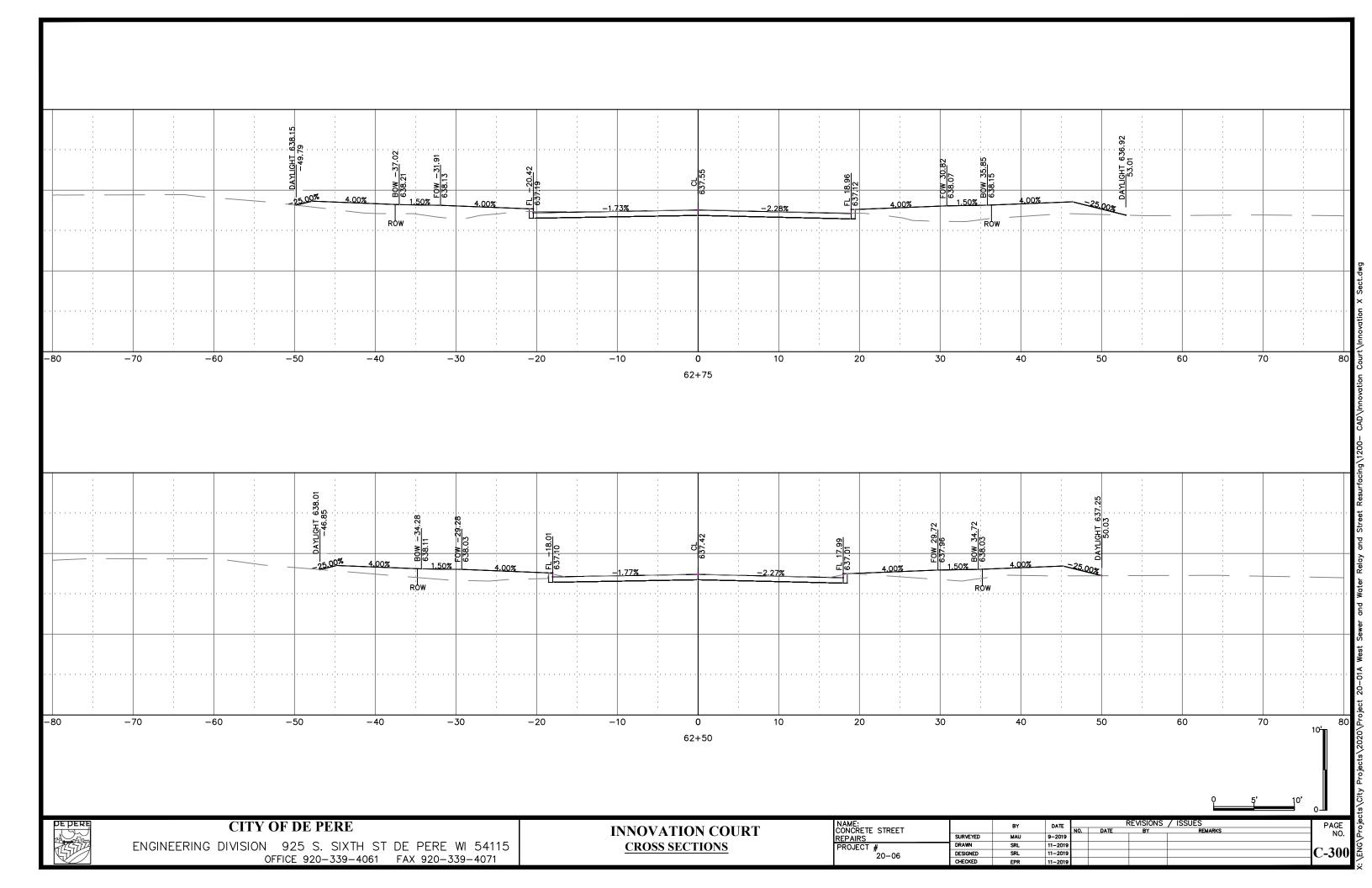
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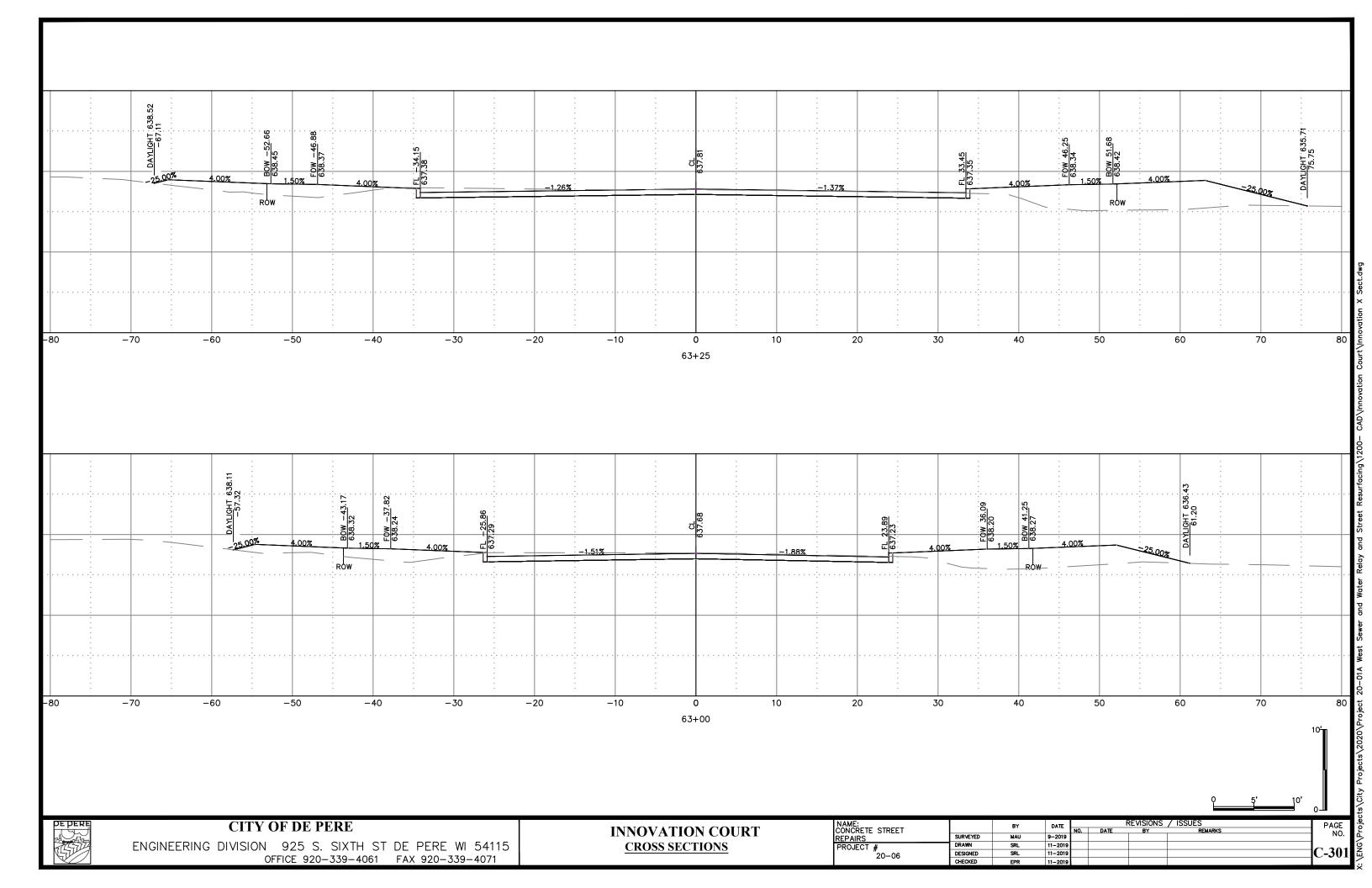
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TYPICAL SECTIONS

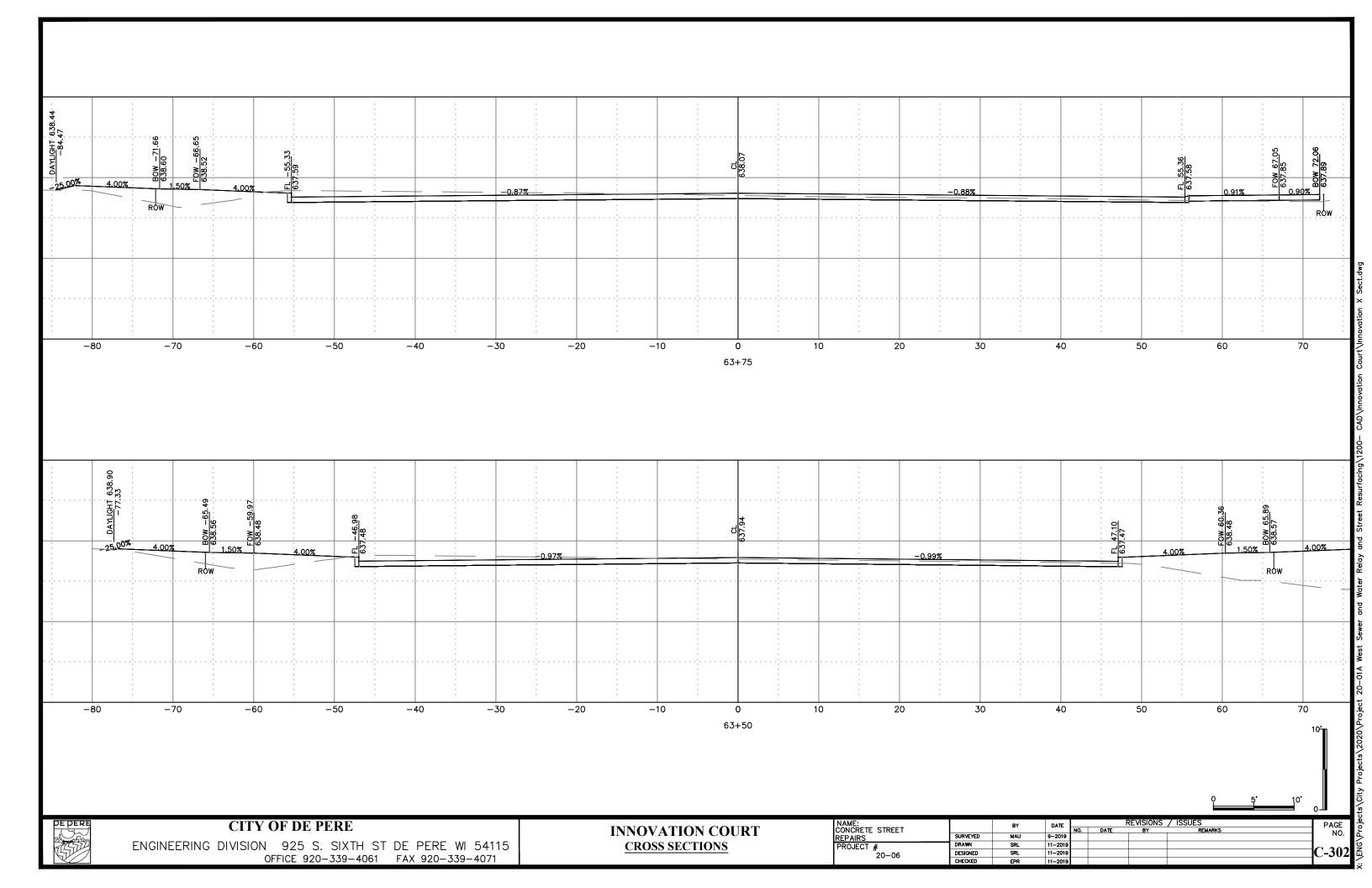
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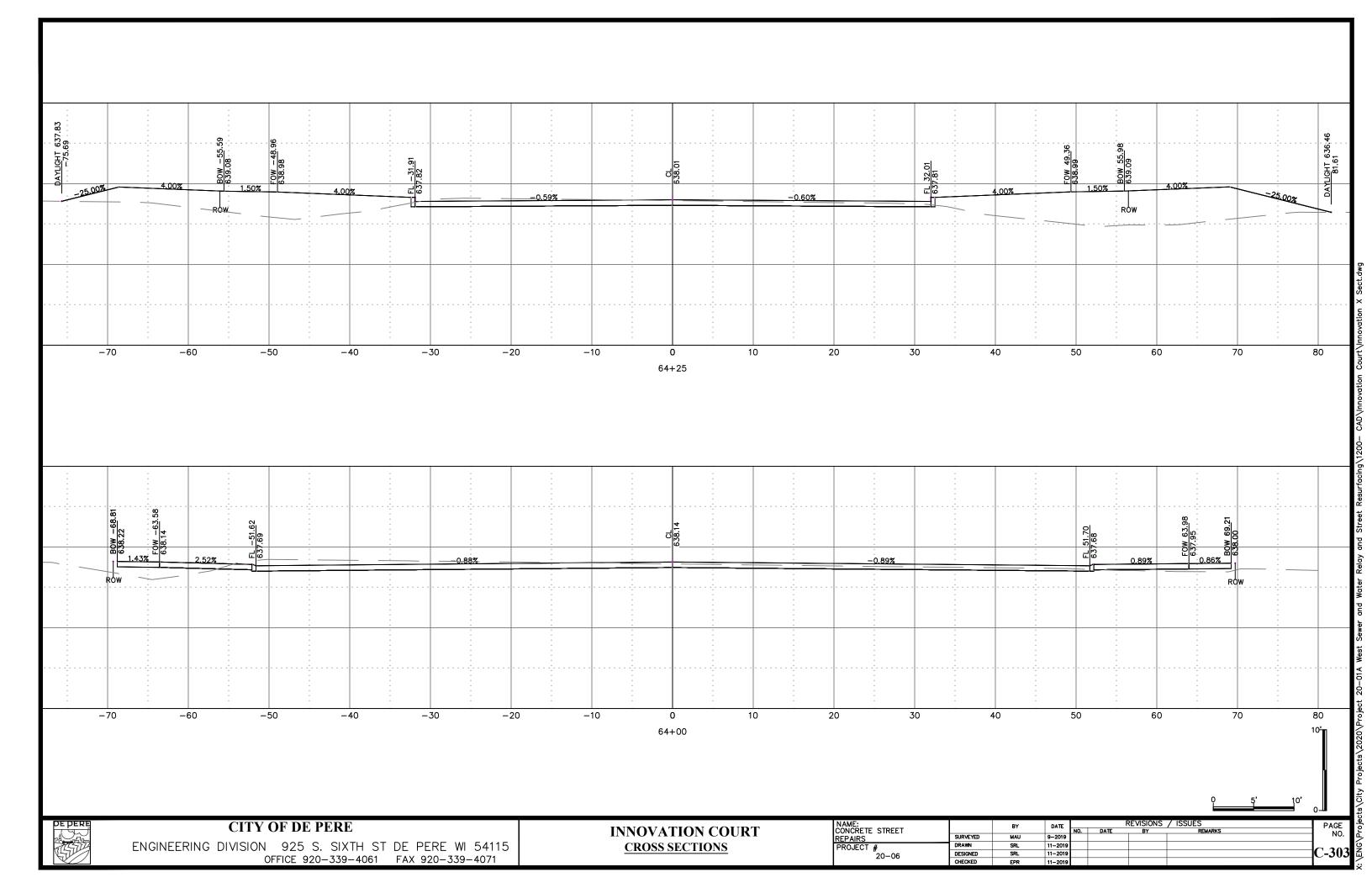


















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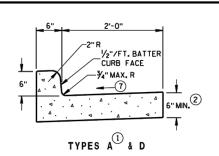
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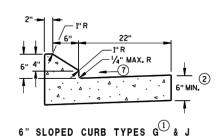
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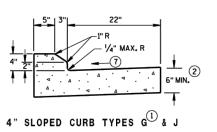
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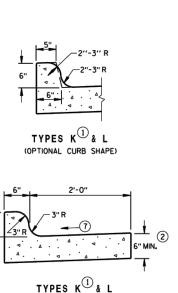
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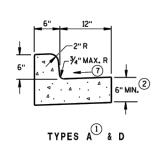
SDD 8d1-a Concrete Curb, Concrete Curb & Gutter



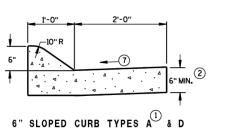


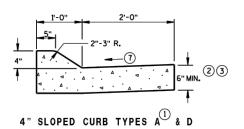


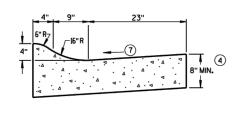




CONCRETE CURB & GUTTER 18"







4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED. THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- 6 WHEN REVERSE SLOPE GUTTER IS REQUIRED. THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

TRAFFIC_

PAVEMENT

THICKNESS

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

6

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

* BIKE LANE IS NOT SHOWN.

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

CONCRETE PANEL WIDTH

TYPES TBT & TBTT

CONCRETE CURB & GUTTER

TBT & TBTT "X"

SAME PAY LIMITS

6" MIN

AS CURB & GUTTER

22" 28"

30"

SAME SLOPE AS ADJACENT PAVEMENT REVERSE SLOPE GUTTER 6 (TYPICAL FOR ALL CURB & GUTTER TYPES)

— PAVEMENT SLOPE

CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

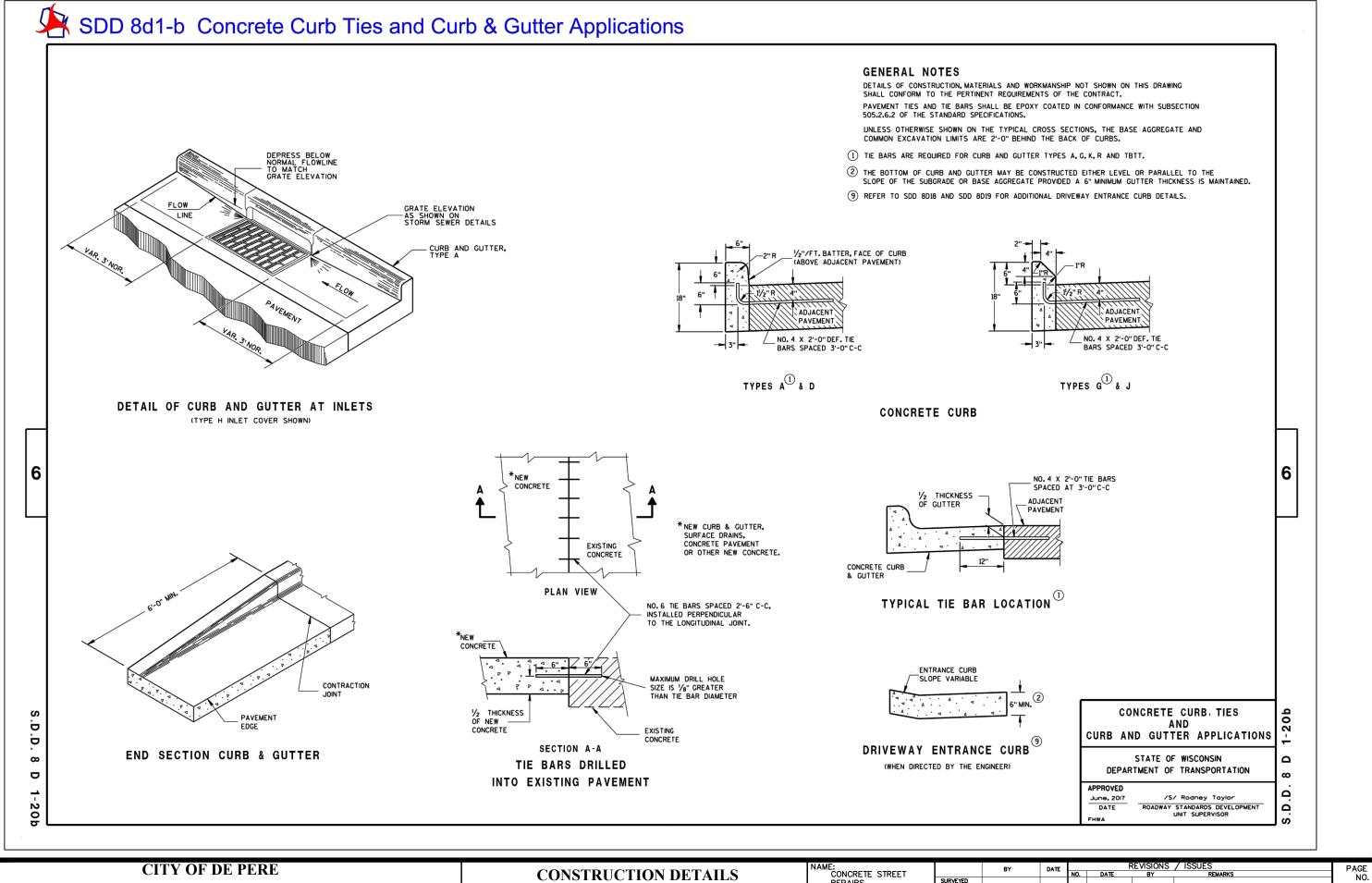
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CITY OF DE PERE

CONCRETE CURB & GUTTER 30"

CONSTRUCTION DETAILS CONCRETE PAVEMENT REPAIRS

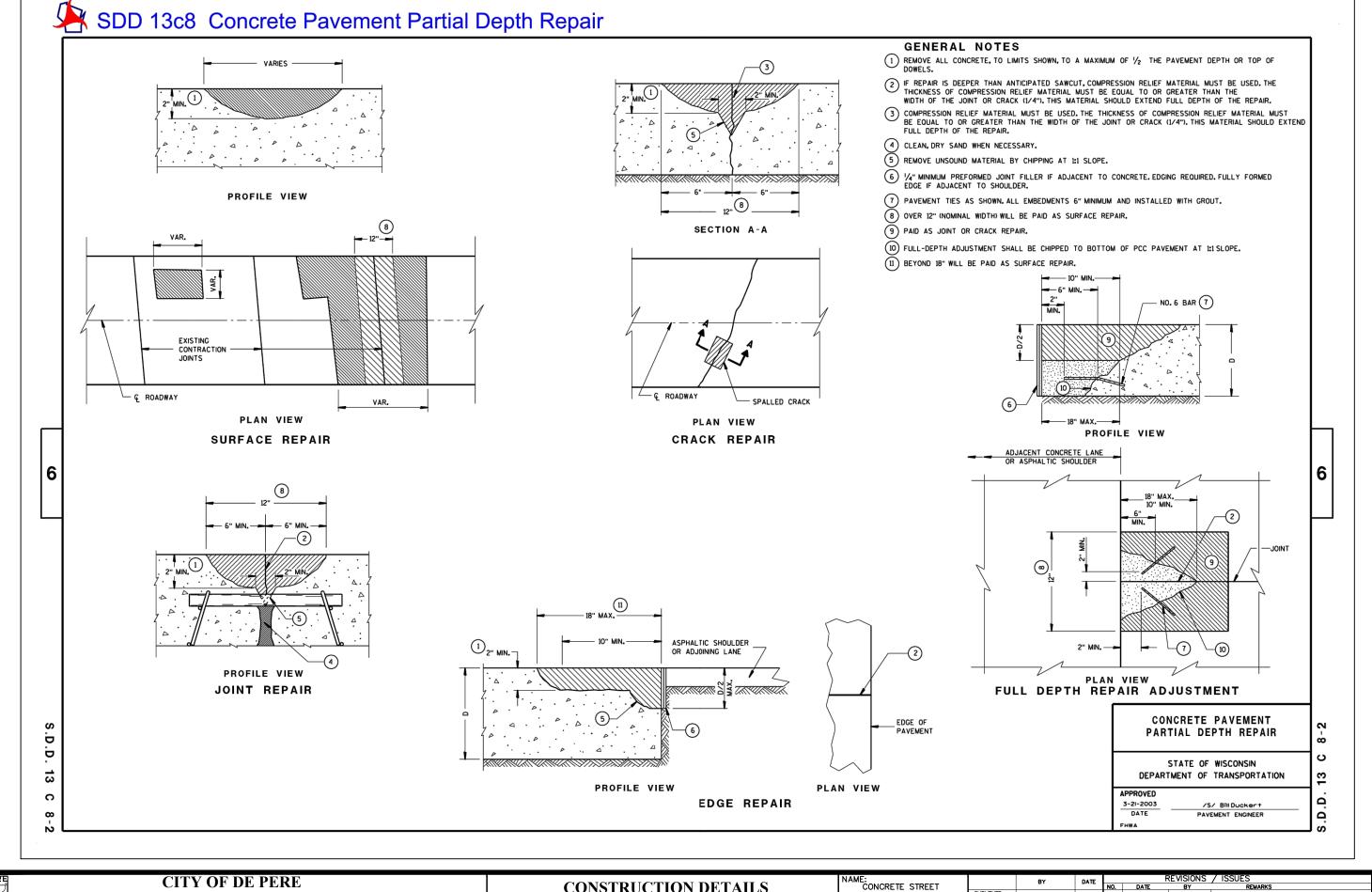
CONCRETE STREET NO. DESIGNED



DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071 CONSTRUCTION DETAILS CONCRETE PAVEMENT REPAIRS

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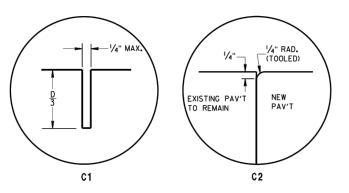


SDD 13c9-b Concrete Pavement Repair and Replacement

(TOOLED)

PAV'T

LONGITUDINAL JOINTS



TRANSVERSE JOINTS

EXISTING PAV'T

TIE BAR TABLE

TIE DAN TABLE									
PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR Length (L)	MAX. TIE BAR Spacing						
< 10 ½"	NO. 4	30"	36"						
≥ 10 1/2"	NO. 5	36"	36"						
2 10 72	NO. 4 *	30"	24"**						

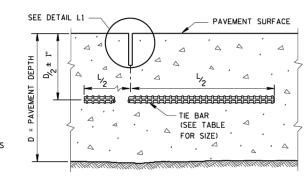
- * SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)
- ** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

_ 1/4" RAD. (TOOLED)

PAV'T

PAV'T

L3



SECTION C-C
SAWED LONGITUDINAL JOINT

SEE DETAIL C1

GENERAL NOTES

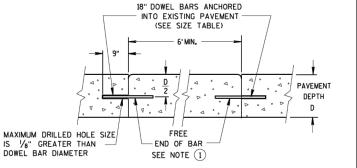
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

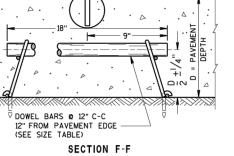
FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR FIGS.

1 APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

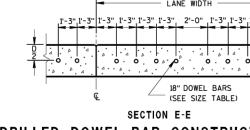


SECTION D-D

(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O")



CONTRACTION JOINT



DRILLED DOWEL BAR CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	NONE	12'
7",7 1/2"	1"	1"	14'
8",8 1/2"	1 1/4"	1 1/4"	15'
9",9 1/2"	1 1/4"	1 1/4"	15'
10" & ABOVE	1 1/2"	1 1/4"	15'

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

DEPTH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

EXISTING 6' MIN. CONCRETE 15' MAX. CONCRETE ANCHORED FXISTING DOWEL PAVEMENT, ANCHORED DOUBLE INTO LANE LANE EXISTING WIDTH -REPAIR-PAVEMENT. 15" C-C _ L1 0R -L3<u>-</u> CONCRETE -C2 PLAN VIEW

EXISTING REPLACEMENT LENGTH GREATER THAN 15' TO LESS THAN 300' | EXISTING CONCRETE CONCRETE ш**∢** ANCHORED TIE BARS (SEE ___ C2 DOWEL BARS PAVEMENT. FOR 15" C-C L1 OR L3 L1 OR L3-C2 → 15" MIN. PLAN VIEW DOWEL BARS MULTI-LANE CONCRETE PAVEMENT REPLACEMENT

MULTI-LANE CONCRETE PAVEMENT REPAIR

CITY OF DE PERE

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115 OFFICE 920-339-4061 FAX 920-339-4071 CONSTRUCTION DETAILS CONCRETE PAVEMENT REPAIRS

AME:		BY	DATE		F	REVISIONS	/ ISSUES	PAGE
CONCRETE STREET	'			NO.	DATE	BY	REMARKS	NO.
REPAIRS	SURVEYED							NO.
ROJECT #	DRAWN	KAD	12-2019					C 505
20-06	DESIGNED			1				IC-507
	CHECKED							

DE PERE

____ P/

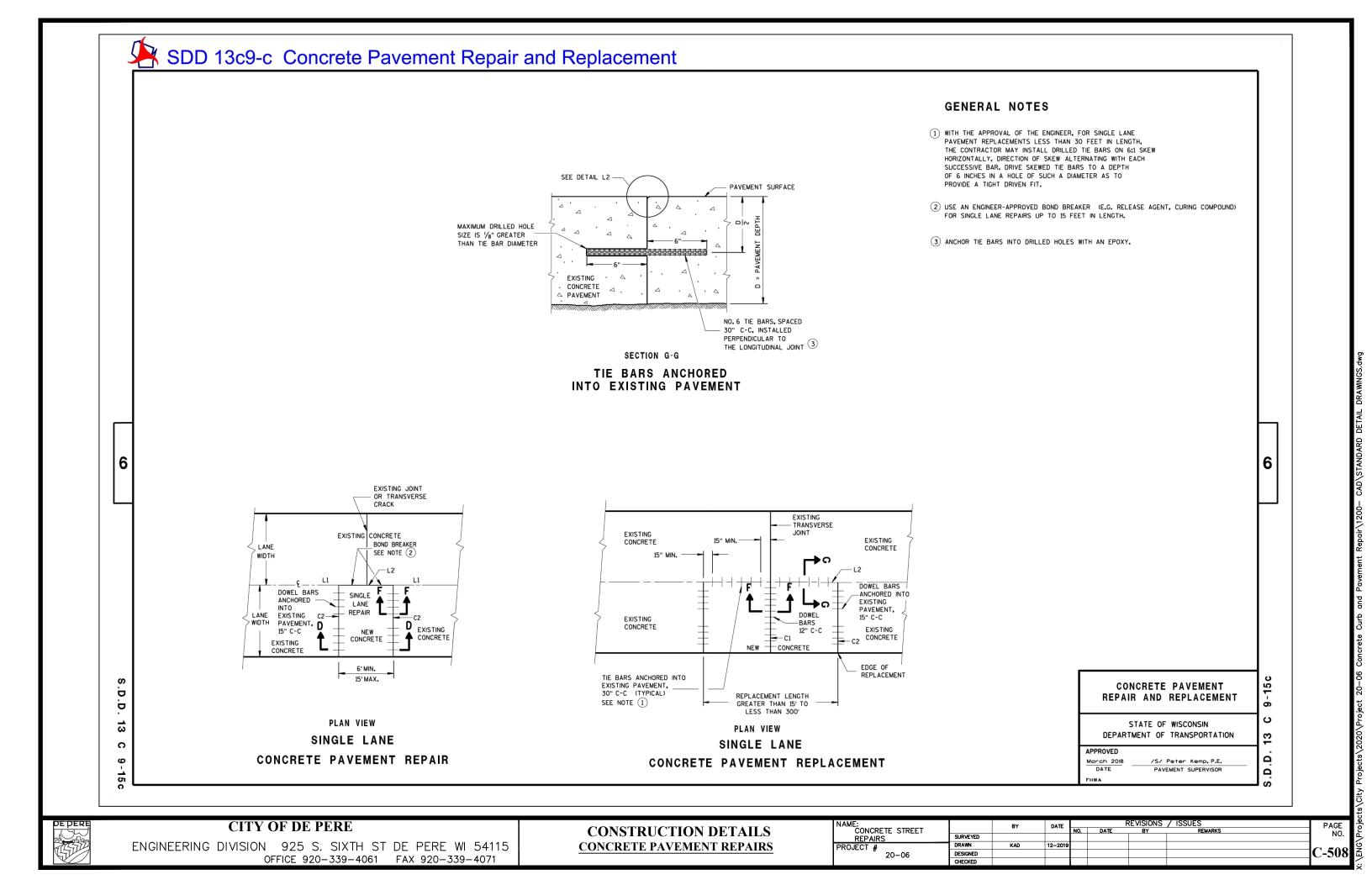
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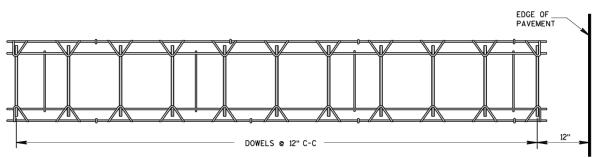
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SDD 13c13 Urban Doweled Concrete Pavement



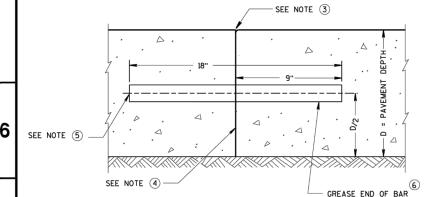
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7".7 1/2"	1"	14'
8"•8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

PLAN VIEW

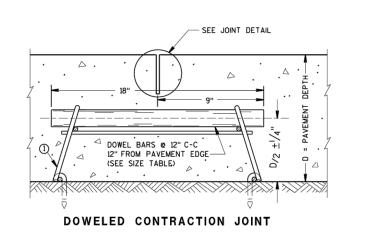


SIDE VIEW CONTRACTION JOINT DOWEL ASSEMBLY

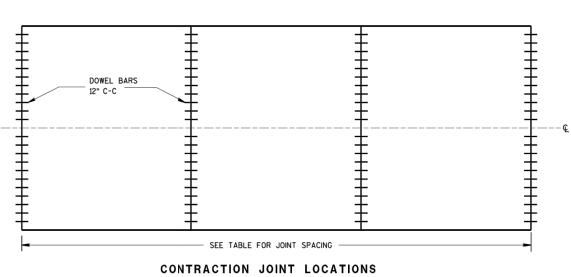


(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-0") PAVEMENT 18" DOWEL BARS (SEE SIZE TABLE)

DRILLED DOWEL BAR CONSTRUCTION JOINT $^{\scriptsize \textcircled{1}}$



TRANSVERSE CONSTRUCTION JOINT



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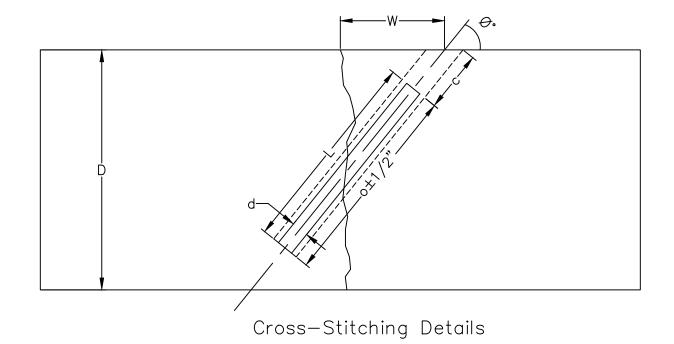
CITY OF DE PERE

OFFICE 920-339-4061 FAX 920-339-4071

ENGINEERING DIVISION 925 S. SIXTH ST DE PERE WI 54115

CONSTRUCTION DETAILS CONCRETE PAVEMENT REPAIRS NO.

Slab			Bar	Length	Depth	Minimum
Thickness	Angle	Offset	Diameter	of Bar	of Slot	Depth to Bar
D	Ø	W	d	L	О	С
(in)	(deg)	(in)	(in)	(in)	(in)	(in)
8.00	35	5.75	0.75	9.00	12.50	3.00
8.50	35	6.00	0.75	9.50	13.00	3.00
9.00	35	6.50	0.75	10.50	14.00	3.00
9.50	35	6.75	0.75	11.50	15.00	3.00
10.00	35	7.25	0.75	12.50	16.00	3.00
10.50	45	5.25	0.75	10.50	13.25	2.25
11.00	45	5.50	0.75	11.50	14.25	2.25
11.50	45	5.75	0.75	12.00	14.75	2.25
12.00	45	6.00	0.75	13.00	15.75	2.25
12.50	45	6.25	0.75	13.50	16.25	2.25
13.00	45	6.50	1.00	14.00	17.00	2.50
13.50	45	6.75	1.00	14.50	17.50	2.50
14.00	45	7.00	1.00	15.50	18.50	2.50
14.50	45	7.25	1.00	16.00	19.00	2.50
15.00	45	7.50	1.00	17.00	20.00	2.50



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