

RFB NO. 319005



CONSTRUCTION DOCUMENTS PROJECT MANUAL

DANE COUNTY DEPARTMENT OF PUBLIC WORKS,
HIGHWAY AND TRANSPORTATION

PUBLIC WORKS ENGINEERING DIVISION
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713

REQUEST FOR BIDS NO. 319005 OVERLOOK STONE SEATING WALLS, PHASE 2 FESTGE COUNTY PARK 4894 SCHERBEL ROAD CROSS PLAINS, WISCONSIN

Due Date / Time: **TUESDAY, JUNE 25, 2019 / 2:00 P.M.**

Location: **PUBLIC WORKS OFFICE**

Performance / Payment Bond: **100% OF CONTRACT AMOUNT**

Bid Deposit: **5% OF BID AMOUNT**

FOR INFORMATION ON THIS REQUEST FOR BIDS, PLEASE CONTACT:

RYAN SHORE, PROJECT MANAGER
TELEPHONE NO.: 608/266-4475
FAX NO.: 608/267-1533
E-MAIL: SHORE@COUNTYOFDANE.COM

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LEGAL NOTICE

INVITATION TO BID

Dane County Dept. of Public Works, Hwy & Transp., 1919 Alliant Energy Center Way, Madison, WI 53713, will receive sealed Bids until:

2:00 P.M., TUESDAY, JUNE 25, 2019

RFB NO. 319005

OVERLOOK STONE SEATING WALLS, PHASE 2

FESTGE COUNTY PARK

4894 SCHERBEL ROAD, CROSS PLAINS, WI

Dane County is inviting Bids for construction services. The project involves adding limestone features as well as modifying existing structures to the overlook wall. Only firms with capabilities, experience & expertise with similar projects should obtain this Request for Bids document & submit Bids.

Request for Bids document may be obtained after **2:00 p.m. on May 29, 2019** by downloading it from bids-pwht.countyofdane.com. Please call Ryan Shore, Project Mgr, at 608/266-4475, or our office at 608/266-4018, for any questions or additional information.

A pre-bid site tour will be held June 7, 2019 at 10:00 a.m. at Festge County Park. Bidders are strongly encouraged to attend this tour.

PUBLISH: MAY 29 & JUNE 4, 2019 - WISCONSIN STATE JOURNAL

MAY 29 & JUNE 4, 2019 - THE DAILY REPORTER

INSTRUCTIONS TO BIDDERS

Overlook Stone Seating Walls, Phase 2
Festge County Park
4894 Scherbel Rd
Cross Plains, Wisconsin

1. SECURING DOCUMENTS

- A. Construction Documents may be obtained at bids-pwht.countyofdane.com.
- B. Bidder is responsible to check Public Works website regularly for Addenda.

2. BID REQUIREMENTS

- A. Bidder shall submit lump sum bid for providing all labor, equipment, tools and materials necessary to perform all Work described in Construction Documents. Only firms with capabilities, experience and expertise with similar projects should submit Bids.
- B. Envelope containing Bid shall be clearly marked as for this project (note title at top of page). Bids shall be delivered to:

Dane County Department of Public Works, Highway & Transportation
1919 Alliant Energy Center Way
Madison, Wisconsin 53713

- C. One (1) Bid Form shall be submitted with your Bid. Bid Form is provided with Construction Documents; no other form or letter shall be accepted.
- D. Wisconsin Statute 77.54 (9m) allows building materials that become part of local unit government facilities to be exempt from sales & use tax. Vendors & materials suppliers may not charge Bidders sales & use tax on these purchases. This does not include highways, streets or roads.
- E. Bidders shall not add any conditions, escalator clauses or qualifying statements to Bid Form.
- F. Erasures or other changes to Bid must be explained or noted, and shall be accompanied by initials of bidder.
- G. Legally authorized official of bidder's organization shall sign Bids.
- H. Bidder's organization shall submit completed Fair Labor Practices Certification Form, included in these Construction Documents.
- I. Bid Bond shall be made payable to Dane County in amount of five percent (5%) of bid amount. Bid Bond shall be either certified check or bid bond issued by surety licensed to conduct business in the State of Wisconsin. Successful bidder's Bid Bond shall be retained until Contract is signed and required Performance / Payment Bond is submitted. Bids shall be binding on bidder for sixty (60) calendar days after Bid Due Date. Bid Bond must be submitted with Bid.
- J. Successful bidder shall furnish and pay for Performance / Payment Bond as called for in Conditions of Contract.

3. INQUIRIES

- A. Written inquiries regarding intent of Construction Documents should be directed to:

Ryan Shore, Public Works Project Manager
Dane County Department of Public Works, Highway & Transportation
1919 Alliant Energy Center Way, Madison, Wisconsin 53713
Fax: 608/267-1533
Email: shore@countyofdane.com

- B. Bidders shall bring questions, discrepancies, omissions, conflicts or doubt as to meaning of any part of Construction Documents to attention of Department of Public Works, Highway & Transportation at least ten (10) business days before due date for Bids. Prompt clarification of intent of Construction Documents shall be made available to bidders in form of Addendum. Bidder shall acknowledge all Addenda on Bid Form.
- C. Failure to request clarification of interpretation of Construction Documents shall not relieve bidders of their responsibilities to perform Work.

4. EXAMINATION OF SITE

- A. Coordinate site access activities with Chris James, Dane County Parks, 608/224-3763.
- B. A bidders facility tour will be held on June 7, 2019 at 10:00 a.m. at Festge County Park, 4894 Scherbel Rd., Cross Plains,. This tour will go until approximately 10:30 a.m., Bidders are strongly encouraged to attend this tour, however attendance is optional.

5. ALTERNATES

- A. Not used.

6. WITHDRAWAL OF BIDS

- A. Any bidder may withdraw their Bid any time prior to Bid Due Date. Withdrawn Bids shall be returned unopened.

7. BID DUE DATE

- A. See Legal Notice (advertisement).

8. COMMENCEMENT AND COMPLETION OF WORK

- A. Work may commence by August 1, 2019
- B. Work shall be completed by December 1, 2019.

9. RESERVATION

- A. Dane County reserves the right to reject any or all Bids, to waive any informalities in the Bid, and to accept any Bid which shall be in the best interest of Dane County.

Name of Bidding Firm: _____

BID FORM

BID NO. 319005

**PROJECT: OVERLOOK STONE SEATING WALLS, PHASE 2
FESTGE COUNTY PARK**

**TO: DANE COUNTY DEPARTMENT OF PUBLIC WORKS, HIGHWAY &
TRANSPORTATION PROJECT MANAGER
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713**

**NOTE: WISCONSIN STATUTE 77.54 (9M) ALLOWS FOR NO SALES & USE TAX ON
THE PURCHASE OF MATERIALS FOR COUNTY PUBLIC WORKS PROJECTS.**

BASE BID - LUMP SUM:

The project involves adding limestone features as well as modifying existing structures to the overlook wall. The undersigned, having examined the site where the Work is to be executed and having become familiar with local conditions affecting the cost of the Work and having carefully examined the Drawings and Specifications, all other Construction Documents and Addenda thereto prepared by Dane County Department of Public Works, Highway & Transportation hereby agrees to provide all [design expertise,]labor, materials, equipment and services necessary for the complete and satisfactory execution of the entire Work, as specified in the Construction Documents, for the Base Bid stipulated sum of:

_____ and _____ /100 Dollars
Written Price

\$ _____
Numeric Price

- 1. Install limestone step/border at patio: \$ _____ /lump sum
- 2. Construct 16 ln.ft. seating wall and concrete footing.: \$ _____ /lump sum
- 3. Demo existing sign pillars, clean stone for re-use.: \$ _____ /lump sum
- 4. Rebuild 30 ln.ft. of sign seating wall with 2' cap. \$ _____ /lump sum
- 5. Rebuild existing 8 ln.ft. wall with capstones. \$ _____ /lump sum

Total: \$ _____
Numeric Price

_____ and _____ /100 Dollars
Written Price

Receipt of the following addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

Assuming this Work can be started by [Commencement Date1], 200[X], what dates can you commence and complete this job?

Commencement Date: _____ Completion Date: _____
(final, not substantial)

I hereby certify that all statements herein are made on behalf of:

(Name of Corporation, Partnership or Person submitting Bid)

Select one of the following:

1. A corporation organized and existing under the laws of the State of _____, or

2. A partnership consisting of _____, or

3. A person conducting business as _____;

Of the City, Village, or Town of _____ of the State of _____.

I have examined and carefully prepared this Bid from the associated Construction Documents and have checked the same in detail before submitting this Bid; that I have full authority to make such statements and submit this Bid in (its) (their) (my) behalf; and that the said statements are true and correct. In signing this Bid, we also certify that we have not, either directly or indirectly, entered into any agreement or participated in any collusion or otherwise taken any action in restraint of free competition; that no attempt has been made to induce any other person or firm to submit or not to submit a Bid; that this Bid has been independently arrived at without collusion with any other bidder, competitor, or potential competitor; that this Bid has not been knowingly disclosed prior to the Bids Due Date to another bidder or competitor; that the above statement is accurate under penalty of perjury.

The undersigned agrees to be qualified as a Best Value Contractor or will have proven their exemption before the award of this contract.

The undersigned further agrees to honor the Base Bid and the Alternate Bid(s) for sixty (60) calendar days from date of Award of Contract.

SIGNATURE: _____
(Bid is invalid without signature)

Print Name: _____ Date: _____

Title: _____

Address: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

Contact Person: _____

THIS PAGE IS FOR BIDDERS' REFERENCE AND NEED NOT BE SUBMITTED WITH BID FORM.

BID CHECK LIST:

These items **must** be included with Bid:

Bid Form

Bid Bond

Fair Labor Practices Certification

DANE COUNTY BEST VALUE CONTRACTING PRE-QUALIFICATION

General Contractors & all Subcontractors must be pre-qualified as a Best Value Contractor with the Dane County Public Works Engineering Division before the award of contract. Qualification & listing is not permanent & must be renewed every 24 months. Obtain a *Best Value Contracting Application* by calling 608/266-4018 or complete one online at:

countyofdane.com/pwht/BVC_Application.aspx

DANE COUNTY VENDOR REGISTRATION PROGRAM

All bidders are strongly encouraged to be a registered vendor with Dane County. Registering allows vendors an opportunity to receive notifications for RFBs & RFPs issued by the County and provides the County with up-to-date company contact information. Complete a new form or renewal online at:

danepurchasing.com/Account/Login?

FAIR LABOR PRACTICES CERTIFICATION

The undersigned, for and on behalf of the BIDDER, APPLICANT or PROPOSER named herein, certifies as follows:

- A. That he or she is an officer or duly authorized agent of the above-referenced BIDDER, APPLICANT or PROPOSER, which has submitted a bid, application or proposal for a contract or agreement with the county of Dane.

- B. That BIDDER, APPLICANT or PROPOSER has (check one):

_____ not been found by the National Labor Relations Board (“NLRB”) or the Wisconsin Employment Relations Commission (“WERC”) to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

_____ been found by the National Labor Relations Board (“NLRB”) or the Wisconsin Employment Relations Commission (“WERC”) to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

Officer or Authorized Agent Signature Date

Printed or Typed Name and Title

Printed or Typed Business Name

NOTE: You can find information regarding the violations described above at: www.nlr.gov and werc.wi.gov.

For reference, Dane County Ordinance 25.09 is as follows:

- (1) BIDDER RESPONSIBILITY. (a) Any bid, application or proposal for any contract with the county, including public works contracts regulated under chapter 40, shall include a certification indicating whether the bidder has been found by the National Labor Relations Board (NLRB) or the Wisconsin Employment Relations Committee (WERC) to have violated any statute or regulation regarding labor standards or relations within the last seven years. The Controller shall investigate any such finding and make a recommendation to the committee, which shall determine whether the conduct resulting in the finding affects the bidder’s responsibility to perform the contract.

If you indicated that the NLRB or WERC have found you to have such a violation, you must include copies of any relevant information regarding such violation with your proposal, bid or application.

Include this completed Certification with your bid, application or proposal.

COUNTY OF DANE

PUBLIC WORKS CONSTRUCTION CONTRACT

Contract No. _____ Bid No. 319005

Authority: 2019 RES - _____

THIS CONTRACT, made and entered into as of the date by which authorized representatives of both parties have affixed their signatures, by and between the County of Dane (hereafter referred to as "COUNTY") and _____ (hereafter, "CONTRACTOR"), and

WITNESSETH:

WHEREAS, COUNTY, whose address is c/o Public Works Director, 1919 Alliant Energy Center Way, Madison, WI 53713, desires to have CONTRACTOR provide renovation services to the Festge County Park overlook stone wall ("the Project"); and

WHEREAS, CONTRACTOR, whose address is _____ is able and willing to construct the Project, in accordance with the Construction Documents;

NOW, THEREFORE, in consideration of the above premises and the mutual covenants of the parties hereinafter set forth, the receipt and sufficiency of which is acknowledged by each party for itself, COUNTY and CONTRACTOR do agree as follows:

1. CONTRACTOR agrees to construct, for the price of \$_____ the Project and at the CONTRACTOR'S own proper cost and expense to furnish all materials, supplies, machinery, equipment, tools, superintendence labor, insurance, and other accessories and services necessary to complete the Project in accordance with the conditions and prices stated in the Bid Form, Conditions of Contract, the drawings which include all maps, plats, plans, and other drawings and printed or written explanatory matter thereof, and the specifications therefore as prepared by Dane County Parks (herein after referred to as "the Architect / Engineer"), and as enumerated in the Project Manual Table of Contents, all of which are made a part hereof and collectively evidence and constitute the Contract.
2. COUNTY agrees to pay the CONTRACTOR in current funds for the performance of the Contract subject to additions and deductions, as provided in the Conditions of Contract, and to make payments on account thereof as provided in Article entitled, "Payments to Contractor" of the Conditions of Contract.
3. During the term of this Contract, CONTRACTOR agrees to take affirmative action to ensure equal employment opportunities. The CONTRACTOR agrees in accordance with Wisconsin Statute 111.321 and Chapter 19 of the Dane County Code of Ordinances not to discriminate on the basis of age, race, ethnicity, religion, color, gender, disability, marital status, sexual orientation, national origin, cultural differences, ancestry, physical appearance, arrest record or conviction record, military participation or membership in the national guard, state defense force or any other reserve component of the military forces of the United States, or political beliefs.

Such equal opportunity shall include, but not be limited to, the following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, rates of pay, and any other form of compensation. CONTRACTOR agrees to post in conspicuous places, available to all employees and applicants for employment, notices setting forth the provisions of this paragraph.

4. CONTRACTOR shall file an Affirmative Action Plan with the Dane County Contract Compliance Officer in accord with Chapter 19 of the Dane County Code of Ordinances. CONTRACTOR must file such plan within fifteen (15) business days of the effective date of this Contract. During the term of this Contract CONTRACTOR shall also provide copies of all announcements of employment opportunities to COUNTY'S Contract Compliance Office, and shall report annually the number of persons, by race, ethnicity, gender, and disability status, which apply for employment and, similarly classified, the number hired and number rejected.

5. During the term of this Contract, all solicitations for employment placed on CONTRACTOR'S behalf shall include a statement to the effect that CONTRACTOR is an "Equal Opportunity Employer".

6. CONTRACTOR agrees to furnish all information and reports required by COUNTY'S Contract Compliance Officer as the same relate to affirmative action and nondiscrimination, which may include any books, records, or accounts deemed appropriate to determine compliance with Chapter 19, Dane County Code of Ordinances, and the provisions of this Contract.

7. This Contract is intended to be a Contract solely between the parties hereto and for their benefit only. No part of this Contract shall be construed to add to, supplement, amend, abridge or repeal existing rights, benefits or privileges of any third party or parties including, but not limited to, employees of either of the parties.

8. The entire agreement of the parties is contained herein and this Contract supersedes any and all oral agreements and negotiations between the parties relating to the subject matter hereof. The parties expressly agree that the express terms of this Contract shall not be amended in any fashion except in writing, executed by both parties.

9. NOT USED

IN WITNESS WHEREOF, COUNTY and CONTRACTOR, by their respective authorized agents, have caused this Contract and its Schedules to be executed, effective as of the date by which all parties hereto have affixed their respective signatures, as indicated below.

* * * * *

FOR CONTRACTOR:

Signature Date

Printed or Typed Name and Title

Signature Date

Printed or Typed Name and Title

NOTE: If CONTRACTOR is a corporation, Secretary should attest. In accordance with IRS Regulations, unincorporated entities are required to provide either their Social Security or Employer Number in order to receive payment for services rendered.

* * * * *

This Contract is not valid or effectual for any purpose until approved by the appropriate authority designated below, and no work is authorized until the CONTRACTOR has been given notice to proceed by COUNTY'S Assistant Public Works Director.

FOR COUNTY:

Joseph T. Parisi, County Executive Date

AIA[®] Document A310[™] – 2010

Bid Bond

CONTRACTOR:

(Name, legal status and address)

SURETY:

(Name, legal status and principal place of business)

OWNER:

(Name, legal status and address)

BOND AMOUNT:**PROJECT:**

(Name, location or address, and Project number, if any)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this _____ day of _____

_____	(Contractor as Principal)	_____	(Seal)
(Witness)		_____	(Title)
		_____	(Surety)
_____		_____	(Seal)
(Witness)		_____	(Title)

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

AIA[®] Document A312[™] – 2010

Performance Bond

CONTRACTOR:

(Name, legal status and address)

SURETY:

(Name, legal status and principal place of business)

OWNER:

(Name, legal status and address)

CONSTRUCTION CONTRACT

Date:

Amount:

Description:

(Name and location)

BOND

Date:

(Not earlier than Construction Contract Date)

Amount:

Modifications to this Bond: None See Section 16

CONTRACTOR AS PRINCIPAL

Company: _____
(Corporate Seal)

SURETY

Company: _____
(Corporate Seal)

Signature: _____

Name _____
and Title: _____

Signature: _____

Name _____
and Title: _____

(Any additional signatures appear on the last page of this Performance Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:

OWNER'S REPRESENTATIVE:

(Architect, Engineer or other party:)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

AIA Document A312–2010 combines two separate bonds, a Performance Bond and a Payment Bond, into one form. This is not a single combined Performance and Payment Bond.

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

§ 2 If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Section 3.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after

- .1 the Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Section 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;
- .2 the Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and
- .3 the Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

§ 4 Failure on the part of the Owner to comply with the notice requirement in Section 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

§ 5 When the Owner has satisfied the conditions of Section 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

§ 5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

§ 5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

§ 5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owner's concurrence, to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Section 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

§ 5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor and with reasonable promptness under the circumstances:

- .1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or
- .2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

§ 6 If the Surety does not proceed as provided in Section 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Section 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

§ 7 If the Surety elects to act under Section 5.1, 5.2 or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication, for

- .1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;
- .2 additional legal, design professional and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Section 5; and
- .3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

§ 8 If the Surety elects to act under Section 5.1, 5.3 or 5.4, the Surety's liability is limited to the amount of this Bond.

§ 9 The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors and assigns.

§ 10 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 11 Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 12 Notice to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

§ 13 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 14 Definitions

§ 14.1 **Balance of the Contract Price.** The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made, including allowance to the Contractor of any amounts received or to be received by the Owner in settlement of insurance or other claims for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

§ 14.2 **Construction Contract.** The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

§ 14.3 **Contractor Default.** Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

§ 14.4 **Owner Default.** Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 14.5 **Contract Documents.** All the documents that comprise the agreement between the Owner and Contractor.

§ 15 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 16 Modifications to this bond are as follows:

Sample

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL

SURETY

Company: _____

(Corporate Seal)

Company: _____

(Corporate Seal)

Signature: _____

Name and Title: _____

Address _____

Signature: _____

Name and Title: _____

Address _____

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.



AIA® Document A312™ – 2010

Payment Bond

CONTRACTOR:

(Name, legal status and address)

SURETY:

(Name, legal status and principal place of business)

OWNER:

(Name, legal status and address)

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

AIA Document A312–2010 combines two separate bonds, a Performance Bond and a Payment Bond, into one form. This is not a single combined Performance and Payment Bond.

CONSTRUCTION CONTRACT

Date:

Amount:

Description:

(Name and location)

BOND

Date:

(Not earlier than Construction Contract Date)

Amount:

Modifications to this Bond: None See Section 18

CONTRACTOR AS PRINCIPAL

Company: *(Corporate Seal)*

SURETY

Company: *(Corporate Seal)*

Signature: _____

Name _____
and Title: _____

Signature: _____

Name _____
and Title: _____

(Any additional signatures appear on the last page of this Payment Bond.)

(FOR INFORMATION ONLY — Name, address and telephone)

AGENT or BROKER:**OWNER'S REPRESENTATIVE:**

(Architect, Engineer or other party:)

§ 1 The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to the Owner to pay for labor, materials and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.

§ 2 If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies and holds harmless the Owner from claims, demands, liens or suits by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.

§ 3 If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Section 13) of claims, demands, liens or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials or equipment furnished for use in the performance of the Construction Contract and tendered defense of such claims, demands, liens or suits to the Contractor and the Surety.

§ 4 When the Owner has satisfied the conditions in Section 3, the Surety shall promptly and at the Surety's expense defend, indemnify and hold harmless the Owner against a duly tendered claim, demand, lien or suit.

§ 5 The Surety's obligations to a Claimant under this Bond shall arise after the following:

§ 5.1 Claimants, who do not have a direct contract with the Contractor,

- .1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
- .2 have sent a Claim to the Surety (at the address described in Section 13).

§ 5.2 Claimants, who are employed by or have a direct contract with the Contractor, have sent a Claim to the Surety (at the address described in Section 13).

§ 6 If a notice of non-payment required by Section 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Section 5.1.1.

§ 7 When a Claimant has satisfied the conditions of Sections 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:

§ 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and

§ 7.2 Pay or arrange for payment of any undisputed amounts.

§ 7.3 The Surety's failure to discharge its obligations under Section 7.1 or Section 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Section 7.1 or Section 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.

§ 8 The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Section 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.

§ 9 Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.

§ 10 The Surety shall not be liable to the Owner, Claimants or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to, or give notice on behalf of, Claimants or otherwise have any obligations to Claimants under this Bond.

§ 11 The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders and other obligations.

§ 12 No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Section 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this Paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.

§ 13 Notice and Claims to the Surety, the Owner or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.

§ 14 When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

§ 15 Upon request by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.

§ 16 Definitions

§ 16.1 Claim. A written statement by the Claimant including at a minimum:

- .1 the name of the Claimant;
- .2 the name of the person for whom the labor was done, or materials or equipment furnished;
- .3 a copy of the agreement or purchase order pursuant to which labor, materials or equipment was furnished for use in the performance of the Construction Contract;
- .4 a brief description of the labor, materials or equipment furnished;
- .5 the date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
- .6 the total amount earned by the Claimant for labor, materials or equipment furnished as of the date of the Claim;
- .7 the total amount of previous payments received by the Claimant; and
- .8 the total amount due and unpaid to the Claimant for labor, materials or equipment furnished as of the date of the Claim.

§ 16.2 Claimant. An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials or equipment were furnished.

§ 16.3 Construction Contract. The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.

§ 16.4 **Owner Default.** Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

§ 16.5 **Contract Documents.** All the documents that comprise the agreement between the Owner and Contractor.

§ 17 If this Bond is issued for an agreement between a Contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

§ 18 Modifications to this bond are as follows:

(Space is provided below for additional signatures of added parties, other than those appearing on the cover page.)

CONTRACTOR AS PRINCIPAL

SURETY

Company: _____

(Corporate Seal)

Company: _____

(Corporate Seal)

Signature: _____

Name and Title: _____

Address _____

Signature: _____

Name and Title: _____

Address _____

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

CONDITIONS OF CONTRACT

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1. BIDS AND QUOTATIONS

- A. **Addressing of Bids.** Bids shall be addressed to attention of Public Works Engineering Division and received at Dane County Department of Public Works, Highway & Transportation, 1919 Alliant Energy Center Way, Madison, WI 53713, on or before local time and date specified herein for Bid Due Date. Seal all bids in envelopes and clearly mark front with bid number and reference to specified contents of bid. All uses of term “County” in Construction Documents shall mean Dane County.
- B. **Only One Copy Required.** Unless otherwise specified, only one copy of bid or quotation on prescribed Bid Form will be required.
- C. **Additional Data with Bid.** Bidder may submit, on firm’s letterhead only, additional data and information deemed advantageous to County. County shall hold optional consideration of such data and information.
- D. **More than One Bid.** Bidders desiring to submit more than one bid may do so provided such additional bid or bids are properly submitted on Dane County Department of Public Works, Highway & Transportation’s Bid Form. Obtain extra sets of Construction Documents from Dane County Department of Public Works, Highway & Transportation. All uses of term “Department” in Construction Documents shall mean Department of Public Works, Highway & Transportation, which is Dane County government unit.
- E. **Withdrawal or Late Bids.** County will not accept formal bids, amendments thereto, or requests for withdrawal of bid or any part thereof, after time of Bid Due Date.
- F. **Preparation and Submission.** All written bids, unless otherwise provided for, must be submitted on and in accordance with forms provided by County properly signed in ink. Bids not signed by hand are not accepted. Bidders must register in advance with Purchasing Division.
- G. **Products by Name.** Intention of Specifications of products by name is to be descriptive of quality, workmanship, finish, function and approximate characteristics desired; intention is not necessarily restriction. Consideration of products substitution for those named is possible, provided substitute offered is, in opinion of Dane County Public Works Project

Manager, equal or superior in quality, workmanship, finish, function and approximate characteristics to that specified in Project Manual Specifications listed herein.

- H. **Visitation of Sites.** Bidder shall visit site(s) that will receive intended work or installation, and in so doing, be held responsible for job deemed satisfactory by County after completion of the Work or installation. No additional compensation shall be allowed for any condition of which bidder could have been informed.
- I. **Completeness.** Supply all information required by Construction Documents to constitute regular bid. This shall include:
 - 1. Completed Bid Form.
 - 2. Completed Fair Labor Practices Certification.
 - 3. Completed Bid Bond.
- J. **Bids Binding Sixty (60) Calendar Days.** Unless otherwise specified all formal bids submitted shall be binding for sixty (60) calendar days following Bid Due Date.
- K. **Conditional Bids.** Qualified bids are subject to complete rejection, or partial rejection.
- L. **All or Part.** Bids or quotations may be considered and award made for all or any part of total quantities as specified in Construction Documents.
- M. **Errors.** Unit bid price shall govern when extending total prices has errors. Carelessness in quoting prices or in preparation of bid otherwise, will not relieve bidder. Explain all erasures in bids and include signature of bidder.
- N. **Regulation by State Statutes.** Bidding and letting of contracts are subject to provisions of Wisconsin Statutes 59.52(29) and 66.0901 and all subsequent sections and amendments thereof.
- O. **Bidders Present.** Bid Due Date is time fixed for opening of formal bids. Bids' contents will be made public for information of bidders and others properly interested, who may be present either in person or by representative. Bidders are encouraged to attend all openings, and to offer constructive suggestions for improvements to bid format or ways in which County can realize greater savings.
- P. **Taxes.** Contractor shall pay applicable State and local sales taxes.

2. GUARANTEE AND BOND

- A. **Bid Bond / Guarantee.** Bid Bond shall accompany Bids, which shall be either flat sum or percentage figure as shown on Project Manual Cover. This Bid Bond shall serve as warrant that successful bidder will fulfill terms of bid within time limit as indicated in bid after notice of award by Dane County. Bid Bond may be certified bank check (note: uncertified checks will not be acceptable), cashier's check or United State money order payable to Treasurer of Dane County; or on Bid Bond with corporate surety authorized to do business in State of Wisconsin and warranty of attorney to confess judgment thereon attached thereto. County will return negotiable Bid Bonds to unsuccessful bidders after awarding of bid. County shall return check held from Contractor after satisfactory completion of Contract or after receipt by County of Performance Bond from Contractor, if one is required. Surety Bid Bonds will not be returned unless specifically requested by individual bidders.

- B. **Guarantor Liability.** When guarantee is required, failure of bidder to furnish acceptable Performance Bond (Article 2.C.) within twenty (20) business days after receipt of notice of award shall render guarantor liable to County. Bids covered by certified check or bond such security shall become absolute property of County and shall be deposited with County Treasurer for benefit of County as liquidated damages. County shall forthwith proceed to collect on Bid Bond.
- C. **Performance / Payment Bond.** When required, file guarantee that successful bidder will faithfully perform obligations of bid as accepted. Such guarantee must be bond complying with Wisconsin Statute 779.14 with corporate surety authorized to do business in this State, and that Contractor or subcontractors will be responsible for all claims for injuries to persons or damages to property or premises arising out of or in connection with their operations prior to acceptance of finished work or supplies, and that they will promptly make payments to all persons supplying them with labor or materials in execution of the Work provided for in Contract; guarantee to indemnify, hold harmless and defend Dane County, its boards, commissions, agencies, officers, employees and representatives from all costs, damages and expenses growing out of or by reason of successful bidder's failure to comply and perform the Work and complete Contract in accordance with Construction Documents; attach thereto a warrant of attorney authorizing confession of judgment thereon for benefit of County.

3. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES

- A. Shop Drawings are drawings, diagrams, schedules and other data specially prepared for the Work by Contractor or subcontractor, sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.
- B. Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by Contractor to illustrate materials or equipment for some portion of the Work.
- C. Samples are physical examples that illustrate materials, equipment or workmanship and establish standards to compare the Work.
- D. Shop Drawings, Product Data, Samples and similar submittals are not Construction Documents. Purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required how Contractor proposes to conform to information given and design concept expressed in Construction Documents.
- E. Contractor shall review, approve and submit to Public Works Project Manager Shop Drawings, Product Data, Samples and similar submittals required by Construction Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in activities of County or of separate contractors. Submittals made by Contractor not required by Construction Documents, may be returned without action.
- F. Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples or similar submittals until Public Works Project Manager has approved respective submittal. Such Work shall be in accordance with approved submittals.
- G. By approving and submitting, Shop Drawings, Product Data, Samples and similar submittals, Contractor represents that Contractor has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked

and coordinated information contained within such submittals with requirements of the Work and of Construction Documents.

- H. Contractor shall not be relieved of responsibility for deviations from requirements of Construction Documents by Public Works Project Manager's approval of Shop Drawings, Product Data, Samples and similar submittals unless Contractor has specifically informed Public Works Project Manager in writing of such deviation at time of submittal and Public Works Project Manager has given written approval to specific deviation. Contractor shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Sample or similar submittals by Public Works Project Manager's approval thereof.
- I. Contractor shall in writing direct specific attention to revised and / or resubmitted Shop Drawings, Product Data, Samples or similar submittals that were not requested by Public Works Project Manager on previous submittals.
- J. Unless specified otherwise, Contractor shall submit three (3) copies of all Shop Drawings, Product Data, Samples or similar submittals for each submission, until receiving final approval. After final approval, provide five (5) additional copies for distribution and such other copies as may be required.

4. AWARDS

- A. **Lowest Responsible Bidder.** Award will be to lowest responsible bidder conforming to Construction Documents or on most advantageous bid to County.
- B. **Other Considerations.** Quantities involved, time of delivery, purpose for which required, competency of bidder, ability to render satisfactory service and past performance will be considered in determining responsibility.
- C. **Rejection of Bids.** County reserves right to reject any or all bids or quotations in whole or in part and to award by items, parts of items, or by any aggregate group of items specified. County also reserves right to waive technical defects when in its judgment best interests of County thereby will be served.
- D. **Notice of Acceptance.** Sufficient notification of acceptance of bid will be written notice of award to bidder in form of Purchase Order or similar, mailed or delivered to address shown on Bid Form.
- E. **Tie Bids.** If two or more bidders submit identical bids, decision of County to make award to one or more of such bidders shall be final. Cash discount will be taken into consideration in determining award. Also, see Article 7.A. IDENTICAL BIDDING, Antitrust Laws.
- F. **Qualifying Bidders.** Prior to solicitation and / or awarding of bid, County may require submission by bidder of complete financial statement and questionnaire describing bidder's financial ability and experience in performance of similar work. Refer to Instructions to Bidders.
- G. **Disqualification.** Awards will not be made to any person, firm or company in default of Contract with County, or to any bidder having as its sales agent or representative or as member of firm, any individual previously in default or guilty of misrepresentation.
- H. **Bid Results.** Bidders may secure information pertaining to results of bids by visiting Public Works' website, bids-pwht.countyofdane.com/.

5. CONTRACT PROVISIONS

- A. **Acceptance Constitutes Contract.** Written acceptance by Public Works Project Manager of proposal for services shall constitute Contract, which shall bind bidder to perform the Work as detailed in Construction Documents, for bid amount and in accordance with all conditions of said accepted bid. Formal Contract containing all provisions of Contract signed by both parties shall be used when required by Public Works Project Manager.
- B. **Local Restrictions and Permits.** All work shall be done according to applicable laws, ordinances and codes. Contractor shall procure and pay for all required permits for permanent or temporary work.
- C. **Payment of Invoices.** Payment may be made only after inspection and acceptance by using agency and approval by Dane County Public Works Project Manager, and, where required by ordinances, approval by Dane County Board of Supervisors. If materials or equipment were delivered, constructed, erected, installed or tested on site, payment shall be made based on ninety-five percent (95%) of value of all the Work performed up to fifty percent (50%) of scheduled values less total of previous payments. Authorized extra work will be included in progress payments. Payment of balances will be made only after approval and final acceptance by County in consideration and elimination of possibilities of imperfect work, faulty materials or equipment, liens that have been filed, or if evidence indicates possible filing of claims.
- D. **Contract Alterations.** No alterations or variables in terms of contract shall be valid or binding upon County unless made in writing and signed by Purchasing Agent or authorized agent.
- E. **Assignments.** No contract may be assigned, sublet or transferred without written consent of Public Works Project Manager.
- F. **Cancellations.** Contract may be canceled or voided by Public Works Project Manager upon non-performance or violation of contract provisions, and award made to next low bidder or articles specified may be purchased on open market. In either event, defaulting contractor (or their surety) shall be liable to Dane County for costs to County in excess of defaulting contractor's contract prices.
- G. **Right of Department to Terminate Contract.**
1. In event that Contractor or any subcontractors violate any provisions of this Contract, County may serve written notice upon Contractor and Surety of its intention to terminate Contract. Such notice to contain reasons for such intention to terminate Contract, and unless within ten (10) business days after serving of such notice upon Contractor, such violation or delay shall cease and satisfactory arrangement or correction be made, Contract shall, upon expiration of said ten (10) business days, cease and terminate.
 2. In event of any such termination, County shall immediately serve notice thereof upon Surety and Contractor, and Surety shall have right to take over and perform Contract subject to County's approval. However, if Surety does not commence performance thereof within ten (10) business days from date of mailing to such Surety of notice of termination, County may take over the Work and prosecute same to completion by Contract or by force account for account and at expense of Contractor. Contractor and Surety shall be liable to County for any excess cost occasioned County thereby, and in such event County may take possession of and utilize in completing the Work, such

equipment, materials and / or supplies as may be on site of the Work and therefore necessary.

- H. **Non-Liability.** Contractor shall not be liable in damages for delay in shipment or failure to deliver when such delay or failure is result of fire, flood, strike, transporting carrier, act of God, act of government, act of alien enemy or by any other circumstances which, in Public Works Project Manager's opinion, is beyond control of Contractor. Under such circumstances, however, Public Works Project Manager may in discretion, cancel Contract.
- I. **Quality Assurance.** Inspection of equipment, materials and / or supplies shall be made by or at direction of County or Agency to which goods are delivered, and any articles supplied that are defective, or fails in any way to meet Specifications or other requirements of Contract, will be rejected. Public Works Project Manager shall direct all required laboratory tests. Decision of Public Works Project Manager on acceptance shall be final.
- J. **Time for Completion.** Contractor agrees that the Work shall be prosecuted regularly and diligently and complete entire project as stated in Construction Documents.
- K. **Changes in the Work.**
1. Except in cases of emergency, no changes in the Work covered by approved Construction Documents shall be made without having prior written approval of Department. Charges or credits for work covered by approved change shall be determined by one of these methods:
 - a) Unit bid prices previously approved.
 - b) Agreed lump sum based on actual cost of:
 - 1) Labor, including foremen, and all fringe benefits that are associated with their wages;
 - 2) Materials entering permanently into the Work;
 - 3) Ownership or rental cost of construction plant and equipment during time of use on extra work;
 - 4) Power and consumable supplies for operation of construction or power equipment;
 - 5) Workmen's Compensation Insurance, Contractor's Public Liability and Property Damage Insurance, and Comprehensive Automobile Liability Insurance;
 - 6) Social Security, pension and unemployment contributions;
 - 7) To cost under K.1.b), there shall be added fixed fee to be agreed upon, but not to exceed fifteen percent (15%) of actual cost of the Work performed with their own labor force; fee shall be compensation to cover cost of supervision, overhead, bond, profit and any other general expense;
 - 8) On that portion of work under K.1.b) done under subcontract, Contractor may include not over seven and one-half percent (7½%) for supervision, overhead, bond, profit and any other general expense; and
 - 9) Contractor shall keep and present in such form as directed, correct amount of cost together with such supporting vouchers as may be required by Department.
 - c) Cost-Plus Work, with not-to-exceed dollar limit, based on actual cost of:
 - 1) Labor, including foremen, and all fringe benefits that are associated with their wages;
 - 2) Materials entering permanently into the Work;
 - 3) Ownership or rental cost of construction plant and equipment during time of use on extra work. (Rental cost cannot exceed fifty percent (50%) replacement value of rented equipment);
 - 4) Power and consumable supplies for operation of construction or power equipment;

- 5) Workmen's Compensation, Contractor's Public Liability and Property Damage Insurance, and Comprehensive Automobile Liability Insurance;
 - 6) Social Security, pension and unemployment contributions;
 - 7) To cost under K.1.c) there shall be added fixed fee to be agreed upon, but not to exceed fifteen percent (15%) of actual cost of the Work performed with their own labor force; fee shall be compensation to cover cost of supervision, overhead, bond, profit, and any other general expense;
 - 8) On that portion of work under K.1.c) done under subcontract, Contractor may include not over seven and one-half percent (7½%) for supervision, overhead, bond, profit, and any other general expense; and
 - 9) Contractor shall keep and present in such form as directed, correct amount of cost together with such supporting vouchers as may be required by Department.
2. If Contractor claims that by any instructions given by Public Works Project Manager, Department, by drawings or otherwise, regarding performance of the Work or furnishing of material under Contract, involves extra cost, Contractor shall give Department written notice thereof within two weeks after receipt of such instructions and in any event before proceeding to execute work, unless delay in executing work would endanger life or property.
 3. No claim for extra work or cost shall be allowed unless same was done in pursuance of written order of Public Works Project Manager, Department, as previously mentioned, and claim presented with payment request submitted after changed or extra work is completed.
 4. Negotiation of cost for change in the Work shall not be cause for Contractor to delay prosecution of the Work if Contractor has been authorized in writing by Public Works Project Manager to proceed.

L. Payments to Contractor.

1. County will make partial payments to Contractor for value, proportionate to amount of Contract, of all labor and material incorporated in the Work during preceding calendar month upon receipt of approved Application and Certificate of Payment from Department.
2. Contractor shall submit to Public Works Project Manager Application and Certificate of Payment. Public Works Project Manager will review and approve this. Evidence may be required, and supplied on demand, that supports request and Contractor's right to payment claimed.
3. Request for payment for preparatory work and materials delivered and suitably stored at site to be incorporated into the Work at some future period, will be given due consideration. Requests involving materials stored off site, may be rejected; however, if deemed essential for reasons of job progress, protection, or other sufficient cause, requests will be considered conditional upon submission by Contractor of bills of sale and such other procedures as will adequately protect County's interest such as storage in bonded warehouse with adequate coverage. If there is any error in payment, Contractor is obligated to notify Department immediately, but no longer than ten (10) business days from receipt of payment.
4. Payments by County will be due within forty-five (45) business days after receipt by Department of certified request.

5. Five percent (5%) of each request for certification will be retained until final completion and acceptance of all the Work covered by Contract. However, anytime after fifty percent (50%) of the Work has been furnished and installed at site, remaining payments will be made in full if Public Works Project Manager find that progress of the Work corresponds with construction progress schedule. If Public Works Project Manager find that progress of the Work does not correspond with construction progress schedule, up to ten percent (10%) of each request for payment may be retained for the Work completed.
6. All material and work covered by partial payments made shall become sole property of County. This provision shall not be construed as relieving Contractor from sole responsibility for care and protection of materials and work upon which payments have been made or restoration of any damaged work, or as waiver of right of County to require fulfillment of all of terms of Contract.
7. Final payment will be made within sixty (60) calendar days after final completion of the Work, and will constitute acceptance thereof. Submit Equal Benefits Compliance Payment Certification with final pay request. Payment may be denied if Certification is not included.
8. On completion and acceptance of each separate division of Contract, on which stated price is separated in Contract, payment may be made in full, including retained percentages thereon, less authorized deductions.

M. Withholding of Payments.

1. County, after having served written notice on said Contractor, may either pay directly any unpaid bills of which Department has written notice, or withhold from Contractor's unpaid compensation, sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged. Then payment to Contractor shall be resumed in accordance with terms of this Contract, but in no event shall these provisions be construed to impose any obligations upon County to either Contractor or Contractor's Surety.
2. In paying any unpaid bills of Contractor, County shall be deemed Agent of Contractor, and any payment so made by County, shall be considered as payment made under Contract by County to Contractor and County shall not be liable to Contractor for any such payment made in good faith.
3. Contractor shall indemnify, hold harmless and defend Dane County, its boards, commissions, agencies, officers, employees and representatives from all claims growing out of lawful demands of subcontractors, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, power tools, and all supplies, including commissary, incurred in performance of this Contract.
4. At Department's request, Contractor shall furnish satisfactory evidence that all obligations of nature designated above have been paid, discharged or waived.

N. Acceptance of Final Payment as Release.

1. Making of final payment shall constitute waiver of all claims by County except those arising from:
 - a) Unsettled lien;
 - b) Faulty or defective work appearing after substantial completion;
 - c) Failure of the Work to comply with requirements of Construction Documents; or
 - d) Terms of any special guarantees required by Construction Documents.

2. Acceptance of final payment shall constitute waiver of all claims by Contractor.

- O. **Lien Waivers.** Contractor warrants that title to all work covered by application for Payment will pass to County no later than time of payment. Contractor further warrants that upon submittal of Application for Payment all work for which Certificates for Payment have been previously issued and payments received from County shall, to best of Contractor's knowledge, information and belief, be free and clear of liens, claims, security interests or encumbrances in favor of Contractor, subcontractor, material suppliers, or other persons or entities making claim by reason of having provide labor, materials and equipment related to the Work.
- P. **Use and Occupancy Prior to Acceptance.** Contractor agrees to use and occupancy of portion or unit of project before formal acceptance by Department, provided Department:
1. Secures written consent of Contractor; except when in opinion of Department's Public Works Project Manager, Contractor is chargeable with unwarranted delay in final cleanup of punch list items or other Contract requirements;
 2. Secures endorsement from insurance carrier and consent of Surety permitting occupancy of building or use of project during remaining period of construction, or, secures consent of Surety;
 3. Assumes all costs and maintenance of heat, electricity and water; and
 4. Accepts all work completed within that portion or unit of project to be occupied, at time of occupancy.
- Q. **Correction of Work.**
1. All work, all materials whether incorporated in the Work or not, and all processes of manufacture shall at all times and places be subject to inspection of Public Works Project Manager who shall be judge of quality and suitability of work, materials, and processes of manufacture for purposes for which they are used. Should they fail to meet Public Works Project Manager's approval they shall be reconstructed, made good, replaced or corrected, as case may be, by Contractor at Contractor's expense. Rejected material shall immediately be removed from site.
 2. If Contractor defaults or neglects to carry out the Work in accordance with Construction Documents or fails to perform any provision of Contract, Department may, after ten (10) business days written notice to Contractor and without prejudice to any other remedy County may have, make good such deficiencies. In such case, appropriate Change Order shall be issued deducting from payments then or thereafter due Contractor cost of correcting such deficiencies, including cost of Public Works Project Manager's additional services made necessary by such default, neglect or failure.

6. GENERAL GUARANTEE

- A. Neither final certificate of payment nor any provision in Construction Documents nor partial or entire occupancy of premises by County shall constitute acceptance of work not done in accordance with Construction Documents or relieve Contractor of liability in respect to any expressed warranties or responsibility for faulty materials or workmanship.
1. In no event shall making of any payment required by Contract constitute or be construed as waiver by County of any breach of covenants of Contract or waiver of any default of Contractor and making of any such payment by County while any such default or breach shall exist shall in no way impair or prejudice right of County with respect to recovery of damages or other remedy as result of such breach or default.

- B. Contractor shall remedy and make good all defective workmanship and materials and pay for any damage to other work resulting therefrom, which appear within period of one year from date of substantial completion, providing such defects are not clearly due to abuse or misuse by County. Department will give notice of observed defects with reasonable promptness.
- C. Guarantee on work executed after certified date of substantial completion will begin on date when such work is inspected and approved by Public Works Project Manager.
- D. Where guarantees or warranties are required in sections of Construction Documents for periods in excess of one year, such longer terms shall apply; however, Contractor's Performance / Payment Bond shall not apply to any guarantee or warranty period in excess of one year.

7. IDENTICAL BIDDING

- A. **Antitrust Laws.** All identical bids submitted to County because of advertised procurement for materials, supplies, equipment or services exceeding \$1,000,000.00 in total amount shall be reported to Attorney Generals of the United States and State of Wisconsin for possible violation and enforcement of antitrust laws.

8. BINDING CONTRACTS

- A. **Contract Commitment.** Any contracts resulting from this bid shall be binding on successful bidder(s) to its conclusion and on its assigns, heirs, executors, administrators or successors.

9. AFFIRMATIVE ACTION PROVISION AND MINORITY / WOMEN / DISADVANTAGED BUSINESS ENTERPRISES

- A. **Affirmative Action Provisions.** During term of its Contract, Contractor agrees not to discriminate on basis of race, religion, color, sex, handicap, age, sexual preference, marital status, physical appearance, or national origin against any person, whether recipient of services (actual or potential), employee, or applicant for employment. Such equal opportunity shall include, but not be limited to following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, rates of pay, and any other form of compensation or level of service(s). Contractor agrees to post in conspicuous places, available to all employees, service recipients and applicants for this paragraph. Listing of prohibited bases for discrimination shall not be construed to amend in any fashion state or federal law setting forth additional bases and exceptions shall be permitted only to extent allowable in state or federal law.
- B. Contractor is subject to this paragraph only if Contractor has ten (10) or more employees and receives \$10,000.00 or more in annual aggregate contracts with County. Contractor shall file Affirmative Action Plan with Dane County Contract Compliance Officer in accord with Chapter 19 of Dane County Code of Ordinances. Contractor must file such plan within fifteen (15) business days of effective date of this Contract and failure to do so by that date shall constitute grounds for immediate termination of Contract. During term of this Contract, Contractor shall also provide copies of all announcements of employment opportunities to County's Contract Compliance Office, and shall report annually number of persons, by race, sex and handicap status, which apply for employment and, similarly classified, number hired and number rejected.

- C. Contact Dane County Contract Compliance Officer at Dane County Contract Compliance Office, 210 Martin Luther King, Jr. Blvd., Room 421, Madison, WI 53703, 608/266-4114.
- D. In all solicitations for employment placed on Contractor's behalf during term of this Contract, Contractor shall include statement to effect that Contractor is "Equal Opportunity Employer."
- E. Contractor agrees to furnish all information and reports required by County's Contract Compliance Officer as same relate to affirmative action and nondiscrimination, which may include any books, records, or accounts deemed appropriate to determine compliance with Chapter 19, Dane County Code of Ordinances, and provision of this Contract.
- F. **Minority / Women / Disadvantaged / Emerging Small Business Enterprises.** Chapter 19.508 of Dane County Code of Ordinances is official policy of Dane County to utilize Minority Business Enterprises (MBEs), Women Business Enterprises (WBEs), Disadvantaged Business Enterprises (DBEs) and Emerging Small Business Enterprises (ESBEs) fully.
- G. Contractor may utilize MBEs / WBEs / DBEs / ESBEs as subcontractors or suppliers. List of subcontractors will be required of low bidder as stated in this Contract. List shall indicate which subcontractors or suppliers are MBEs / WBEs / DBEs / ESBEs and what percentage of subcontract is awarded, shown as percentage of total dollar amount of bid.

10. COMPLIANCE WITH FAIR LABOR STANDARDS

- A. During term of this Contract, Contractor shall report to County Contract Compliance Officer, within ten (10) business days, any allegations to, or findings by National Labor Relations Board (NLRB) or Wisconsin Employment Relations Commission (WERC) that Contractor has violated statute or regulation regarding labor standards or relations. If investigation by Contract Compliance Officer results in final determination that matter adversely affects Contractor's responsibilities under this Contract, and which recommends termination, suspension or cancellation of this Contract, County may take such action.
- B. Contractor may appeal any adverse finding by Contract Compliance Officer as set forth in Dane County Ordinance 25.015(11)(c) through (e).
- C. Contractor shall post this statement in prominent place visible to employees: "As condition of receiving and maintaining contract with Dane County, this employer shall comply with federal, state and all other applicable laws prohibiting retaliation or union organizing."

11. DOMESTIC PARTNERSHIP BENEFITS

- A. Not Used.

12. INSURANCE REQUIREMENTS

- A. Contractor shall indemnify, hold harmless and defend Dane County, its boards, commissions, agencies, officers, employees and representatives from and against all claims, damages, losses and expenses including attorneys' fees arising out of or resulting from performance of the Work, provided that any such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) including loss of use resulting there from, and is caused in whole or in part by any act or omission of Contractor, any subcontractor, anyone directly or indirectly

employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a part indemnified hereunder.

- B. In any and all claims against Dane County, its boards, commissions, agencies, officers, employees and representatives or by any employee of Contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, indemnification obligation under this Contract shall not be limited in any way by any limitation on amount or type of damages, compensation or benefits payable by or for Contractor or any subcontractor under worker's compensation acts, disability benefits or other employee benefit acts.
- C. Obligations of Contractor under this Contract shall not extend to liability of Architect / Engineer, its agents or employees arising out of (1) preparation or approval of maps, drawings, opinion, reports, surveys, change orders, designs or specifications; or (2) giving of or failure to give directions or instruction by Architect / Engineer, its agents or employees provided such giving or failure to give is primary cause of injury or damage.
- D. County shall not be liable to Contractor for damages or delays resulting from work by third parties or by injunctions or other restraining orders obtained by third parties.
- E. **Contractor Carried Insurance.** In order to protect itself and County, Contractor shall not commence work under this Contract until obtaining all required insurance and County has approved such insurance. Contractor shall not allow any subcontractor to commence work on subcontract until insurance required of subcontractor has been so obtained and approved.
 - 1. **Worker's Compensation Insurance**
Contractor shall procure and shall maintain during life of this Contract, Worker's Compensation Insurance as required by statute for all of its employees engaged in work at site of project under this Contract and, in case of such work sublet, Contractor shall require subcontractor similarly to provide Worker's Compensation Insurance for all of latter's employees to be engaged in such work unless such employees are covered by protection afforded by Contractor's Worker's Compensation Insurance.
 - 2. **Contractor's Public Liability and Property Damage Insurance**
Contractor shall procure and maintain during life of this Contract, Contractor's Public Liability Insurance and Contractor's Property Damage Insurance in amount not less than \$1,000,000.00 per occurrence for bodily injury and death, and Contractor's Property Damage Insurance in amount not less than \$1,000,000.00 and shall be primary with Dane County as "Additional Insured".
 - 3. **Auto Liability Insurance**
Contractor shall procure and maintain during life of this Contract, Comprehensive Automobile Liability Insurance covering owned, non-owned and hired automobiles for limits of not less than \$1,000,000.00 and shall be primary with Dane County as "Additional Insured".
- F. Contractor either (1) shall require each subcontractors to procure and to maintain during life of subcontract, subcontractor's Public Liability Property Damage Insurance, and Comprehensive Automobile Liability Insurance of type and in same amount specified in preceding paragraphs; or (2) insure that activities of subcontractors in their own policy.
- G. Contractor shall furnish County with certificates showing type, amount, class of operations covered, effective dates and dates of expiration of policies. Such certificates shall also contain substantially this statement: "Insurance covered by this certificate will not be

canceled or materially altered, except after ten (10) business days written notice has been received by County.”

SUPPLEMENTARY CONDITIONS

1. APPLICATION & CERTIFICATE FOR PAYMENT

- A. Every contractor engaged in performance of any contract for Department of Public Works, Highway & Transportation shall submit partial and final Application & Certificate for Payment for work under said contract. Form shall provide similar information as shown on AIA G702™ and G703™ forms (samples shown below). Forms shall be submitted to Public Works Project Manager for approval.


AIA Document G702™ – 1992

Application and Certificate for Payment

TO OWNER:	PROJECT:	APPLICATION NO:	Distribution to:
		PERIOD TO:	OWNER <input type="checkbox"/>
		CONTRACT FOR:	ARCHITECT <input type="checkbox"/>
FROM CONTRACTOR:	VIA ARCHITECT:	CONTRACT DATE:	CONTRACTOR <input type="checkbox"/>
		PROJECT NOS:	FIELD <input type="checkbox"/>
			OTHER <input type="checkbox"/>

<p>CONTRACTOR'S APPLICATION FOR PAYMENT</p> <p>Application is made for payment, as shown below, in connection with the Contract. AIA Document G703™, Continuation Sheet, is attached.</p> <p>1. ORIGINAL CONTRACT SUM \$ _____</p> <p>2. NET CHANGE BY CHANGE ORDERS \$ _____</p> <p>3. CONTRACT SUM TO DATE (Line 1 + 2) \$ _____</p> <p>4. TOTAL COMPLETED & STORED TO DATE (Column G on G703) \$ _____</p> <p>5. RETAINAGE:</p> <p style="margin-left: 20px;">a. _____% of Completed Work (Columns D + E on G703) \$ _____</p> <p style="margin-left: 20px;">b. _____% of Stored Material (Column F on G703) \$ _____</p> <p style="margin-left: 20px;">Total Retainage (Lines 5a + 5b, or Total in Column I of G703) \$ _____</p> <p>6. TOTAL EARNED LESS RETAINAGE \$ _____ (Line 4 minus Line 5 Total)</p> <p>7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ _____ (Line 6 from prior Certificate)</p> <p>8. CURRENT PAYMENT DUE \$ _____</p> <p>9. BALANCE TO FINISH, INCLUDING RETAINAGE \$ _____ (Line 3 minus Line 6)</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">CHANGE ORDER SUMMARY</th> <th style="text-align: right;">ADDITIONS</th> <th style="text-align: right;">DEDUCTIONS</th> </tr> </thead> <tbody> <tr> <td>Total changes approved in previous months by Owner</td> <td style="text-align: right;">\$ _____</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>Total approved this month</td> <td style="text-align: right;">\$ _____</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td style="text-align: right;">TOTAL</td> <td style="text-align: right;">\$ _____</td> <td style="text-align: right;">\$ _____</td> </tr> <tr> <td>NET CHANGES by Change Order</td> <td style="text-align: right;">\$ _____</td> <td style="text-align: right;">\$ _____</td> </tr> </tbody> </table>	CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS	Total changes approved in previous months by Owner	\$ _____	\$ _____	Total approved this month	\$ _____	\$ _____	TOTAL	\$ _____	\$ _____	NET CHANGES by Change Order	\$ _____	\$ _____	<p>The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.</p> <p>CONTRACTOR: By: _____ Date: _____ State of: _____ Country of: _____ Subscribed and sworn to before me this _____ day of _____</p> <p>Notary Public: My commission expires: _____</p> <hr/> <p>ARCHITECT'S CERTIFICATE FOR PAYMENT</p> <p>In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.</p> <p>AMOUNT CERTIFIED \$ _____ (Attach explanation if amount certified differs from the amount applied. Initial all figures on this Application and on the Continuation Sheet that are changed to conform with the amount certified.)</p> <p>ARCHITECT: By: _____ Date: _____</p> <p>This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.</p>
CHANGE ORDER SUMMARY	ADDITIONS	DEDUCTIONS														
Total changes approved in previous months by Owner	\$ _____	\$ _____														
Total approved this month	\$ _____	\$ _____														
TOTAL	\$ _____	\$ _____														
NET CHANGES by Change Order	\$ _____	\$ _____														

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.
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AIA[®] Document G703™ – 1992

Continuation Sheet

AIA Document G702™-1992, Application and Certificate for Payment, or G732™-2009, Application and Certificate for Payment, Construction Manager as Adviser Edition, containing Contractor's signed certification is attached.
 In tabulations below, amounts are in US dollars.
 Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NO:
 APPLICATION DATE:
 PERIOD TO:
 ARCHITECT'S PROJECT NO:

A ITEM NO.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D WORK COMPLETED		F MATERIALS PRESENTLY STORED <i>(Not in D or E)</i>	G TOTAL COMPLETED AND STORED TO DATE <i>(D+E-F)</i>	H BALANCE TO FINISH <i>(C-G)</i>	I RETAINAGE <i>(if variable rate)</i>
			FROM PREVIOUS APPLICATION <i>(D-E)</i>	THIS PERIOD				
<div style="font-size: 4em; opacity: 0.2; pointer-events: none;">Sample</div>								
GRAND TOTAL								

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

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SECTION 01 00 00
BASIC REQUIREMENTS

PART 1 GENERAL

1.1 SECTION SUMMARY

- A. Section Includes:
1. Section Summary
 2. Summary of the Work
 3. Contractor Use of Premises
 4. Applications for Payment
 5. Change Procedures
 6. Alternates
 7. Lump Sum Allowances for Work
 8. Coordination
 9. Cutting and Patching
 10. Conferences
 11. Progress Meetings
 12. Job Site Administration
 13. Submittal Procedures
 14. Proposed Products List
 15. Shop Drawings
 16. Product Data
 17. Samples
 18. Manufacturers' Instructions
 19. Manufacturers' Certificates
 20. Quality Assurance / Quality Control of Installation
 21. References
 22. Interior Enclosures
 23. Protection of Installed Work
 24. Parking
 25. Staging Areas
 26. Occupancy During Construction and Conduct of Work
 27. Protection
 28. Progress Cleaning
 29. Products
 30. Transportation, Handling, Storage and Protection
 31. Product Options
 32. Substitutions
 33. Starting Systems
 34. Demonstration and Instructions
 35. Contract Closeout Procedures
 36. Final Cleaning
 37. Adjusting
 38. Operation and Maintenance Data

- 39. Spare Parts and Maintenance Materials
- 40. As-Built and Record Drawings and Specifications

1.2 SUMMARY OF THE WORK

- A. Project Description: Perform the Work as specified and detailed in Construction Documents package. Contractor to provide
- B. Work by Owner:
 - 1. Field staking of limestone border, wall, and step alignments
 - 2. Bench relocation
 - 3. Crushed limestone patio at the proposed overlook
 - 4. Flagstone paving
 - 5. Limestone chunk over geotextile fabric
- C. Permits: Not applicable.
- D. Diggers Hotline:
 - 1. It is General Contractor's responsibility to contact Diggers Hotline to have all utility locations marked prior to excavation and planning excavation so as not to delay the Work.
 - 2. Diggers Hotline shall also be used to obtain information on safe working clearances from overhead lines.
 - 3. Completely comply with all requirements of each affected utility company.
 - 4. It is General Contractor's responsibility to contact & hire private utility locating services if necessary.

1.3 CONTRACTOR USE OF PREMISES

- A. Limit use of premises to allow work by Contractors or Subcontractors and access by Owner.

1.4 APPLICATIONS FOR PAYMENT

- A. Submit one (1) original copies with "wet" signatures of each application on AIA G702™ and G703™ forms or approved contractors invoice form.
- B. Content and Format: Utilize Schedule of Values for listing items in Application for Payment.
- C. Payment Period: Monthly.
- D. Submit Applications for Payment to Public Works Project Manager for approval & processing for payment.

1.5 CHANGE PROCEDURES

- A. Change Order Forms: Dane County Contract Change Order, Form 014-32-20 (latest issue).

- B. Contractor's costs for Products, delivery, installation, labor, insurance, payroll, taxes, bonding, equipment rental, overhead and profit will be included in Change Orders authorizing expenditure of funds from contingency allowance.

1.6 ALTERNATES

- A. Not Used.

1.7 LUMP SUM ALLOWANCES FOR WORK

- A. Not Used.

1.8 COORDINATION

- A. Coordinate scheduling, submittals, and work of various sections of Specifications to assure efficient and orderly sequence of installation of interdependent construction elements.
- B. Refer to Drawings for recommended work sequence and duration.

1.9 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching new work; restore work with new Products.
- B. Submit written request in advance of cutting or altering structural or building enclosure elements.
- C. Fit work tight to adjacent elements. Maintain integrity of wall, ceiling, or floor construction; completely seal voids.
- D. Refinish surfaces to match adjacent finishes.

1.10 CONFERENCES

- A. Project shall have pre-bid conference; see Instructions to Bidders.
- B. Owner will schedule preconstruction conference after Award of Contract for all affected parties.
- C. Contractor shall submit Construction Schedule at pre-construction meeting.
- D. When required in individual Specification section, convene pre-installation conference at project site prior to commencing work of Section.

1.11 PROGRESS MEETINGS

- A. Owner shall schedule and administer meetings throughout progress of the Work at minimum of one (1) per week.
- B. Owner shall preside at meetings, record minutes, and distribute copies within two (2) business days to those affected by decisions made.
- C. Attendance at progress meetings by General Contractor, subcontractors, or their authorized representative, is mandatory.
- D. Contractors shall give verbal reports of progress on the Work, discuss schedule for upcoming period and present all conflicts, discrepancies or other difficulties for resolution.
- E. Day & time of progress meetings to be determined at pre-construction meeting.

1.12 JOB SITE ADMINISTRATION

- A. Contractor shall have project superintendent on site minimum of four (4) hours per day during progress of the Work.

1.13 SUBMITTAL PROCEDURES

- A. Submittal form to identify Project, Contractor, Subcontractor or supplier; and pertinent Construction Documents references.
- B. Apply Contractor's stamp, signed or initialed, certifying that review, verification of Products required, field dimensions, adjacent construction work, and coordination of information is in accordance with requirements of the Work and Construction Documents.
- C. Identify variations from Construction Documents and Product or system limitations that may be detrimental to successful performance of completing the Work.
- D. Revise and resubmit submittals as required; identify all changes made since previous submittal.

1.14 PROPOSED PRODUCTS LIST

- A. Within fifteen (15) business days after date of Award of Contract, submit complete list of major Products proposed for use, with name of manufacturer, trade name, and model number of each Product.

1.15 SHOP DRAWINGS

- A. Submit number of copies that Contractor requires, plus three (3) copies that shall be retained by Public Works Project Manager.

1.16 PRODUCT DATA

- A. Submit number of copies that Contractor requires, plus two (2) copies that shall be retained by Public Works Project Manager.
- B. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturer's standard data to provide information unique to this Project.

1.17 SAMPLES

- A. Submit samples to illustrate functional and aesthetic characteristics of Product.

1.18 MANUFACTURERS' INSTRUCTIONS

- A. When specified in individual Specification sections, submit manufacturers' printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, in quantities specified for Product Data.

1.19 MANUFACTURERS' CERTIFICATES

- A. When specified in individual Specification sections, submit manufacturers' certificate to Public Works Project Manager for review, in quantities specified for Product Data.
- B. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.

1.20 QUALITY ASSURANCE / QUALITY CONTROL OF INSTALLATION

- A. Monitor quality control over suppliers, manufacturers, Products, services, site conditions, and workmanship, to produce work of specified quality.
- B. Comply fully with manufacturers' instructions.
- C. Comply with specified standards as minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

1.21 REFERENCES

- A. Conform to reference standard by date of issue current as of date for receiving bids.
- B. Should specified reference standard conflict with Construction Documents, request clarification from Public Works Project Manager before proceeding.

1.22 INTERIOR ENCLOSURES

- A. Not Used.

1.23 PROTECTION OF INSTALLED WORK

- A. Protect installed work and provide special protection where specified in individual Specification sections.

1.24 PARKING

- A. Arrange for temporary parking areas to accommodate construction personnel. Parking shall be available at the Work site.
- B. All contractors and their employees shall cooperate with General Contractor and others in parking of vehicles to avoid interference with normal operations and construction activities.
- C. Do not obstruct existing service drives and parking lots with equipment, materials and / or vehicles. Keep accessible for Owner's use at all times.

1.25 STAGING AREAS

- A. Coordinate staging areas with Public Works Project Manager prior to starting the Work.
- B. On-site space for use as staging areas and storage of materials is limited and will be apportioned among various Contractors as their needs dictate with due regard for storage requirements of each Contractor. Each Contractor shall be responsible for safety of equipment and materials that are stored on site.

1.26 OCCUPANCY DURING CONSTRUCTION AND CONDUCT OF WORK

- A. All construction material and salvage material shall be removed from facility or secured at day's end.
- B. All contractors are expected to leave work areas in conditions such that area can be occupied immediately upon leaving area.
- C. Smoking is prohibited on Dane County property.
- D. Areas of existing facility will be occupied during period when the Work is in progress. Work may be done during normal business hours (7:00 am to 7:00 pm), but confer with Owner, schedule work and store materials so as to interfere as little as possible with normal use of premises.
- E. Contractor shall, at all times, provide approved, safe walkways and facility entrances for use by Owner, employees and public.
- F. Contractor shall provide adequate protection for all parts of facility, its contents and occupants wherever the Work under this Contract is to be performed.

1.27 PROTECTION

- A. Contractor shall protect from damage / injury all trees, shrubs, hedges, plantings, grass, mechanical, electrical & plumbing equipment, walks and driveways and pay for any damage to same resulting from insufficient or improper protection.
- B. Contractor shall provide and maintain barricades & signage to prohibit public access to construction site.
- C. Contractor shall provide and maintain guard lights at all barricades, railings, obstructions in streets, roads or sidewalks and at all trenches adjacent to public walks or roads.

1.28 PROGRESS CLEANING

- A. Maintain areas free of waste materials, debris, and rubbish. Maintain site in clean and orderly condition.

1.29 PRODUCTS

- A. Products: Means new material, machinery, components, equipment, fixtures, and systems forming the Work, but does not include machinery and equipment used for preparation, fabrication, conveying and erection of the Work. Products may also include existing materials or components specifically identified for reuse.
- B. Do not use materials and equipment removed from existing premises, except as specifically identified or allowed by Construction Documents.

1.30 TRANSPORTATION, HANDLING, STORAGE AND PROTECTION

- A. Transport, handle, store and protect Products in accordance with manufacturer's instructions.

1.31 PRODUCT OPTIONS

- A. Where definite material is specified, it is not intentional to discriminate against "equal" product made by another manufacturer. Intention is to set definite standard of material quality. Should bidder choose to bid materials other than those specified, bidder shall submit said materials specifications to Public Works Project Manager for approval at least seven (7) business days prior to Bid Due Date.
- B. Products and materials that are not specified, but have been approved for use by Public Works Project Manager shall be identified in addenda to all bidding contractors.
- C. Requests for material or product substitutions submitted after Bid Due Date may be considered. Owner reserves right to approve or reject substitutions based on Specification requirements and intended use.

1.32 SUBSTITUTIONS

- A. Public Works Project Manager shall consider requests for Substitutions only within fifteen (15) calendar days after date of Public Works Construction Contract.
- B. Document each request with complete data substantiating compliance of proposed Substitution with Construction Documents.
- C. Submit three (3) copies of requests for Substitution for consideration. Limit each request to one (1) proposed Substitution.
- D. Substitutions shall not change contract price established at Bid Due Date.

1.33 STARTING SYSTEMS

- A. Not Used.

1.34 DEMONSTRATION AND INSTRUCTIONS

- A. Not Used.

1.35 CONTRACT CLOSEOUT PROCEDURES

- A. Submit written certification that Construction Documents have been reviewed, the Work has been inspected, and the Work is complete in accordance with Construction Documents and ready for Public Works Project Manager's inspection.
- B. Submit final Application for Payment identifying total adjusted Contract Sum / Price, previous payments, and amount remaining due.

1.36 FINAL CLEANING

- A. Execute final cleaning prior to final inspection.
- B. Clean interior and exterior surfaces exposed to view.
- C. Remove waste and surplus materials, rubbish, and construction facilities from site.

1.37 ADJUSTING

- A. Adjust operating Products and equipment to ensure smooth and unhindered operation.

1.38 OPERATION AND MAINTENANCE MANUAL

- A. Not Used.

1.39 SPARE PARTS AND MAINTENANCE MATERIALS

- A. Not Used.

1.40 AS-BUILT AND RECORD DRAWINGS AND SPECIFICATIONS

Contractor-produced Drawings and Specifications shall remain property of Contractor whether Project for which they are made is executed or not. Contractor shall furnish Public Works Project Manager with original marked up redlines of Construction Documents' drawings and specifications that shall include all Addendums, Change Orders, Construction Bulletins, on-site changes, field corrections, etc. These are project As-Built Drawings & Specifications.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 01 74 19

CONSTRUCTION WASTE MANAGEMENT, DISPOSAL & RECYCLING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Summary
 - 2. Waste Management Goals
 - 3. Construction and / or Demolition Waste Management
 - 4. Waste Management Plan
 - 5. Reuse
 - 6. Recycling
 - 7. Materials Sorting and Storage On Site
 - 8. Lists of Recycling Facilities Processors and Haulers
 - 9. Waste Management Plan Form

1.2 WASTE MANAGEMENT GOALS

- A. Dane County requires that as many waste materials as possible produced as result of this project be salvaged, reused or recycled in order to minimize impact of construction waste on landfills and to minimize expenditure of energy and cost in fabricating new materials. Additional information may be found in Dane County Green Building Policy, Resolution 299, 1999-2000.

1.3 CONSTRUCTION AND / OR DEMOLITION WASTE MANAGEMENT

- A. All construction and demolition waste suitable for recycling may go to Dane County Construction & Demolition Recycling Facility located at 7102 US Hwy 12, Madison, located across from Yahara Hills Golf Course. This facility can receive mixed loads of construction and demolition waste. For complete list of acceptable materials see www.countyofdane.com/pwht/recycle/CD_Recycle.aspx.
- B. Dane County Landfill, also at 7102 US Hwy 12, Madison, must receive all other waste from this project. www.countyofdane.com/pwht/recycle/landfill.aspx.

1.4 WASTE MANAGEMENT PLAN

- A. Contractor shall develop Waste Management Plan (WMP) for this project. Dane County's Special Projects & Materials Manager may be contacted with questions. Outlined in RECYCLING section of this specification are examples of materials that can be recycled or reused as well as recommendations for waste sorting methods.
- B. Contractor shall complete WMP and include cost of recycling / reuse in Bid. WMP will be submitted to Public Works Project Manager within fifteen (15) business days of Bid

Due date, with Bid. Copy of blank WMP form is in this Section. Submittal shall include cover letter and WMP form with:

1. Information on:
 - a. Types of waste materials produced as result of work performed on site;
 - b. Estimated quantities of waste produced;
 - c. Identification of materials with potential to be recycled or reused;
 - d. How materials will be recycled or reused;
 - e. On-site storage and separation requirements (on site containers);
 - f. Transportation methods; and
 - g. Destinations.

1.5 REUSE

- A. Contractors and subcontractors are encouraged to reuse as many waste materials as possible. Salvage should be investigated for materials not reusable on site.

1.6 RECYCLING

- A. These materials may be recycled at Dane County Construction & Demolition Recycling Facility:
 1. Wood.
 2. Wood Pallets.
 3. PVC Plastic (pipe, siding, etc.).
 4. Asphalt & Concrete.
 5. Bricks & Masonry.
 6. Vinyl Siding.
 7. Cardboard.
 8. Metal.
 9. Unpainted Gypsum Drywall.
 10. Shingles.
- B. These materials can be recycled elsewhere in Dane County area:
 1. Fluorescent Lamps.
 2. Foam Insulation & Packaging (extruded and expanded).
 3. Carpet Padding.
 4. Barrels & Drums.
- C. All materials must be recycled at WDNR permitted waste processing facilities that adhere to all State Statutes.

1.7 MATERIALS SORTING AND STORAGE ON SITE

- A. Contractor shall provide separate containers for recyclable materials. Number of containers will be dependent upon project and site conditions.
- B. Contractor shall provide on-site locations for subcontractors supplied recycling containers to help facilitate recycling.

- C. Mixed loads of recycled materials are allowed only per instructions at www.countyofdane.com/pwht/recycle/CD_Recycle.aspx.

1.8 LISTS OF RECYCLING FACILITIES PROCESSORS AND HAULERS

- A. Refer to www.countyofdane.com/pwht/recycle/CD_Recycle.aspx for information on Dane County Construction & Demolition Recycling Facility.
- B. Web site www.countyofdane.com/pwht/recycle/categories.aspx lists current information for Dane County Recycling Markets. Contractors can also contact Allison Rathack at 608/266-4990, or local city, village, town recycling staff listed at site www.countyofdane.com/pwht/recycle/contacts.aspx. Statewide listings of recycling / reuse markets are available from UW Extension at <https://www.uwgb.edu/shwec/>.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

WASTE MANAGEMENT PLAN FORM



Contractor Name: _____

Address: _____

Phone No.: _____ Recycling Coordinator: _____

MATERIAL	ESTIMATED QUANTITY	DISPOSAL METHOD (CHECK ONE)		RECYCLING / REUSE COMPANY OR DISPOSAL SITE
Salvaged & reused building materials	_____ cu. yds. _____ tons	_____ Recycled	_____ Reused	Name: _____
Wood	_____ cu. yds. _____ tons	_____ Recycled	_____ Reused	Name: _____
Wood Pallets	_____ units	_____ Recycled	_____ Reused	Name: _____
PVC Plastic	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Asphalt & Concrete	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Bricks & Masonry	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Vinyl Siding	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Cardboard	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Metals	_____ cu. yds. _____ tons	_____ Recycled	_____ Reused	Name: _____
Unpainted Gypsum / Drywall	_____ cu. yds. _____ tons	_____ Recycled	_____ Reused	Name: _____
Shingles	_____ cu. yds. _____ tons	_____ Recycled	_____ Reused	Name: _____
Fluorescent Lamps	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Foam Insulation	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Carpet Padding	_____ cu. ft. _____ lbs.	_____ Recycled	_____ Reused	Name: _____
Barrels & Drums	_____ units	_____ Recycled	_____ Reused	Name: _____

WASTE MANAGEMENT PLAN FORM

Glass	_____ cu. yds. _____ tons	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____
Other	_____	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____
Other	_____	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____
Other	_____	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____
Other	_____	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____
Other	_____	_____ Recycled _____ Landfilled	_____ Reused _____ Other	Name: _____

SECTION 03 30 00 - CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

DESCRIPTION

The work under this section consists of providing all work, materials, labor equipment and supervision necessary to provide cast in-place concrete and accessories, as required in these specifications and the drawings.

COMPLIANCE DOCUMENTS

All concrete work shall be governed by the following:

American Concrete Institute

ACI 117	Specifications for Tolerances for Concrete Construction and Materials
ACI 304	Guide to Measuring, Mixing, Transporting and Placing Concrete
ACI 305	Hot Weather Concreting
ACI 306	Cold Weather Concreting
ACI 308	Guide to Curing Concrete

American Society for Testing and Materials (ASTM)

C31M-08b	Standard Practice for Making and Curing Concrete Test Specimens in the Field
C33M-08	Standard Specifications for Concrete Aggregates
C39M-05e2	Standard Test Methods for Compressive Strength of Cylindrical Concrete Specimens
C143M-08	Standard Test Methods for Slump of Hydraulic Cement Concrete
C150-07	Standard Specifications for Portland Cement
C171-07	Standard Specifications for Sheet Materials for Curing Concrete
C172-08	Standard Practice for Sampling Freshly Mixed Concrete
C231-08c	Standard Test Methods for Air Content of Freshly Mixed Concrete by the Pressure Method
C260-06	Standard Specifications for Air-Entraining Admixtures for Concrete
C309-07	Standard Specifications for Liquid Membrane Forming Compound for Curing Concrete
C494M-08a	Standard Specifications for Chemical Admixtures for Concrete
C618-08a	Standard Specifications for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete
C1017M-07	Standard Specifications for Chemical Admixtures for Use in Producing Flowing Concrete

Concrete Reinforcing Steel Institute (CRSI)

MSP-1-97	Manual of Standard Practice
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SUBMITTALS

Provide mixture proportion data and compressive strength testing for each type of concrete used.

QUALITY ASSURANCE

Contractor must provide concrete in compliance with specifications.

Conditions For Rejection: Formed concrete work may be subject to rejection and removal when:
-Formed members exposed to view which bulge, sag, deflect or have obvious imperfections visible to the eye, from normal viewing level, which seriously detract from the overall appearance, in the opinion of the Architect/Engineer/Landscape Architect.
-Testing and retesting indicates that concrete has failed to attain specified compressive strength.

PART 2 – MATERIALS ACCESSORIES

Vapor Retarder: 6 mil (.15mm) polyethylene.

Post Bases: See Section 03 20 00 Concrete Reinforcement.

Inserts: See Section 03 10 00 Concrete Formwork or 03 20 00 Concrete Reinforcement.

Liquid Floor Hardener: Magnesium fluorsilicate compound; Use for S-3 finish only. Acceptable Products: Euclid "Surfhard", Master Builders "Saniseal 50", Sonnenborn "Lapidolith", W.R. Meadows Pena-lith, TK Products Tri-A-Lith TK-3981, Toch Brothers "Flintox", CSCO Ardflor.

Sealer: Brickform "Poly-Astic" premium, high-build, zero VOC, poly-astic sealer, or similar approved by Owner.

Owner shall select from high gloss, flat, or satin gloss finish.

AGGREGATES

Durable aggregate material meeting the requirements of ASTM C33M-08. Aggregates used in concrete shall be from the same source and of same gradation as those used to prepare mixture proportion samples for compressive strength testing.

CEMENT

Portland cement meeting the requirements of ASTM C150-07, Type I.

WATER

Potable water.

ADMIXTURES - GENERAL

Unless otherwise approved, admixtures shall be free of chloride ions.

AIR ENTRAINING ADMIXTURES

Air entraining admixtures shall meet the requirements of ASTM C260.

FLY ASH

Fly ash and raw or calcined natural pozzolan shall meet the requirements of ASTM C618-08a, Type C.

PLASTICIZERS

Plasticizers shall meet the requirements of ASTM C1017M-07.

WATER REDUCING, ACCELERATED, AND COMBINED ADMIXTURES

Water reducing, accelerated, and combined admixtures shall meet the requirements of ASTM C494M-08a.

- Type A – Water Reducing
- Type B – Accelerating
- Type C – Water reducing and retarding
- Type E – Water reducing and accelerating
- Type F – Water reducing high range
- Type G – Water reducing high range and retarding

MORTAR

Cement based mortar.

CURING COMPOUND

Liquid membrane forming compound consisting of waxes, resins or other materials.

Curing compounds shall meet the requirements of ASTM C309-07.

Curing compounds shall be compatible with all other proposed concrete finishes.

PART 3 – EXECUTION

GENERAL

Cooperate with all other trades and Prime Contractors whose work is related to, or dependent upon, the forming and placement of concrete work. Provide advance notice and allow reasonable time for placing materials and completion of work by other contractors and trades.

Prepare subgrade as required by the Drawings and other applicable specification sections.

INSTALLATION OF ACCESSORIES

Vapor Barrier: See structural drawing notes for placement of vapor barrier. Provide specified vapor barrier under all concrete floor slabs. Apply in 1 ply with 6 inch (152mm) laps at all edges, overlaps in the direction of concrete spread. Turn up edges at all walls, columns and mechanical projections. Maintain surface integrity; replace all punctured material prior to the pour.

Sealer: Apply approved sealer following manufacturer's instructions.

MIX PROPORTION

Prepare mix proportion for each type of concrete listed on Table 03300-2, as necessary to complete the work.

Type	Use	Min. Compressive Strength (psi)	Slump (in)	Min. Cement Content (Bags/CY)	Max Water Content (Gal/CY)	Air Content
AA	Slab, curbs, walks, walls, foundations	4000 psi (28-day)	1-3	6	30	5-8
CC	Manhole bases, blocking, cradles	3000 psi	1-4	5.5	32	3-5

Table 03300-2

MIXING AND DELIVERY

Use ready mixed concrete of type required for given application, and prepared in accordance with approved mix design.

Deliver and discharge concrete within 1 ½ hours of initial mixing, or before 300 drum or blade revolutions.

Do not add water on-site unless slump and water/cement ratio will be below the maximum after the addition of water. If water is added onsite, mix concrete an additional 30 revolutions.

Temperature of concrete shall be maintained between 50 F and 90 F.

If admixtures are added onsite, follow manufacturer's recommendations with regards to additional mixing.

PLACING CONCRETE

Place concrete in accordance with the most stringent of either ACI 304 or this section.

Before placing concrete, remove debris, ice, snow, and other foreign materials from the subgrade or formwork.

Remove standing water from subgrade. Dry and compact subgrade if is or becomes water- saturated. Do not place concrete on soft or frozen subgrade.

Place and secure steel reinforcement prior to placing concrete.

Position and secure expansion joint material, sleeves, waterstops and other imbedded items prior to placing concrete. Place imbedded items in accordance with the most stringent of either drawings or manufacturer recommendations.

Apply bonding agent to existing concrete surfaces requiring a bond with new concrete.

Convey concrete from truck to final position by method that will prevent separation. Unless otherwise approved, limit free fall of concrete to 4' maximum height to avoid separation.

Place concrete continuously so that concrete is deposited on or adjacent to concrete that is still plastic. When placing of concrete is temporarily halted or delayed, provide construction joints.

Place concrete in lifts not exceeding 18".

Consolidate concrete by mechanical vibration. Allow vibrator to penetrate the full depth of the slab or lift. Overlap previously vibrated areas by 25%.

CONSOLIDATION

Use "spud" type internal vibrators if possible or hand rodding and tamping. Work concrete thoroughly around reinforcement, embedded items and into form corners, eliminating all air or stone pockets. Do not vibrate reinforcing or forms.

Concrete to be consolidated shall be as dry as practicable and surfaces therefore shall be manipulated prior to finishing operations.

JOINTING

Unless otherwise approved, minimize construction joints by terminating placement at expansion joint locations indicated on drawings.

Construction joints on walls shall be constructed in accordance with the drawings. Provide rustication strips for joints on exposed concrete surfaces.

When construction joints are necessary for flatwork, provide bonded joint using dowel or keyway. Roughen the surface of the joint prior to second placement of concrete. Remove laitance, loosened aggregate and damaged concrete. Dampen concrete surface prior to second placement of concrete.

Contact Owner to coordinate on site meeting prior to saw cutting expansion joints. Saw-cut joints shall be completed after initial cure to avoid displacing aggregate.

FINISHING

Flatwork/Slabs: Screed or strike off the surface of the slab using straightedge or vibratory screed.

After screeding, bullfloat or darby the concrete surface to provide uniform surface, free of ridges or voids. Complete prior to bleed water collection.

Once bleed water has evaporated and the concrete can sustain foot pressure, complete edging/jointing and floating.

Complete initial edging and hand tool jointing prior to floating. Re-edge or re-tool joints as necessary to receive uniform finish and specified Architectural features as finishing progresses.

Float surface with hand or power floats. Do not add water or dry cement on surface to modify conditions.

Provide the following types of surfaces where indicated on the drawings, within tolerances specified:

- Type S-1: Floated and troweled; Class A tolerances. Use for interior slabs which are to receive a floor covering, paint, or stain.

- Type S-3: Floated, troweled, with liquid hardener treatment; Class A tolerances. Use for interior floors where concrete or concrete sealer is final scheduled finish.

- Type S-5: Broom finish. Class B tolerances. Use for all exterior flatwork not noted otherwise. Broom slabs transverse to the main direction of traffic. Use approved broom finish texture.

Consolidate Type S-1 and S-3 surfaces by finish troweling, free of trowel marks, uniform in texture and appearance.

Interior flatwork/ slab tolerances to be true planes within 1/8 inch in 10 feet (3mm in 3.05m), determined by a 10 foot (3.05m) straightedge placed anywhere on the slab in any direction and with no deviation in excess of 1/16 inch (1.6mm) per foot.

Walls:

Use form material FM-1 for all concealed concrete surfaces, and where noted or scheduled.

PATCHING AND LEVELING SLABS

General: Finished concrete slabs which do not meet specified finish and/or tolerances, or develop latent characteristics not complying with specification requirements for finish and tolerances, shall be ground or patched, as determined by the Owner.

CURING

General: Cure concrete in accordance with ACI 308. During curing, protect concrete from damaging mechanical disturbances, particularly load stresses, heavy stock and excessive vibration. Protect all finished concrete surfaces from rain or running water.

Protect freshly deposited concrete from premature drying and excessive hot or cold temperatures and maintain with minimal moisture loss at a relatively consistent temperature for the period time necessary for the hydration of the cement, proper hardening of the concrete, hereinafter referred to as curing.

Keep steel forms heated by the sun and all wood forms in contact with concrete wet during the final curing period. If forms are to be removed during the curing period, immediately employ one of the following curing methods and continue specified curing.

Modify curing methods for cold or hot weather concreting as necessary.

Cold weather concreting: Complete cold weather (temperatures below 40 deg. F for 3 successive days) concreting in accordance with ACI 306.

Hot weather concreting: Complete hot weather concreting in accordance with ACI 305.

Initial Curing: Begin as soon as free water has disappeared from exposed surfaces after finishing. Where possible, keep continuously moist for 72 hours. Continue curing using moisture- retaining cover or membrane-forming curing compound. Cure formed surfaces by moist curing until forms are removed. Provide protection required to prevent damage to exposed concrete surfaces.

Continue curing until the cumulative number of days or fraction thereof, not necessarily consecutive, during which temperatures of the air in contact with the concrete is above 50 degrees, totals seven, 24 hour days. If high-early-strength concrete has been used, continue final curing for a total of three 24 hour days. Prevent rapid drying at the end of the curing period.

Concrete Flatwork: Cure as follows:

- Concrete To Be Covered With Cement Setting Bed For Ceramic Tile: Use sheet curing membrane.

- Concrete To Be Exposed and Stained: Do not cover concrete with plastic sheeting. Use liquid curing membrane.
- Exterior Flatwork: Use sheet membrane material followed by application of anti-spall compound.
- All Other Interior Flatwork: Use sheet curing membrane.

Liquid Curing Membrane: Apply using quantities and techniques recommended by the manufacturer except limit coverage rate to 300 square feet per gallon (7.4 square meters per liter). Apply to flatwork immediately following finishing operations, and if no finishing is required, apply as soon as concrete will sustain weight of the applicator.

Sheet Curing Membranes: Place as soon as concrete can be worked over without marring. Thoroughly spray dampen concrete just before covering. Lap all joints 12 inches (305mm) minimum and make air tight with tape or a ridge of earth. Maintain sheeting unbroken for 5 days minimum.

Hardener: Apply to interior floors only where concrete is final scheduled finish.

CLEANING

Clean site; remove concrete spillage. Do not allow concrete trucks to wash out on site or permit spillages or slurry to drain into gutters, streets or storm drainage systems.

PROTECTION

Contractor is responsible for protecting floors and finished concrete surfaces to remain exposed from damage by on-going construction operations and repairing all damage to ensure that slabs are ready for finish materials application.

END OF SECTION

SECTION 04 05 13 MORTAR AND GROUT

PART 1 - GENERAL

1.1 Section Includes

- A. Mortar and grout for masonry.

1.2 References

- A. ASTM C91 - Standard Specification for Masonry Cement.
- B. ASTM C144 - Standard Specification Aggregate for Masonry Mortar.
- C. ASTM C150 - Standard Specification for Portland Cement.
- D. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes.
- E. ASTM C270 - Standard Specification for Mortar for Unit Masonry.
- F. ASTM C387 - Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete.
- G. ASTM C404 - Standard Specification for Masonry Grout.

1.3 Delivery, Storage and Handling

- A. Deliver and store manufactured products in original unopened containers.
- B. Store cementitious ingredients in weather-tight enclosure.
- C. Stockpile and handle aggregates in such a manner so as to prevent segregation and contamination.
- D. Protect admixtures from excessive temperature changes.

1.4 Environmental Requirements

- A. Heat mixing water when air temperature is below 40 degrees F and heat aggregates when air temperature is below 32 degrees F, to assure mortar temperatures between 40 degrees F and 120 degrees F until used.
- B. Produce subsequent mortar batches within 10 degrees F of first batch.
- C. Do not heat water or sand above 120 degrees F.

1.5 Submittals

- A. Submit product data for premixed mortar.
- B. Submit mix design for mortar types to be mixed at the site.

PART 2 - PRODUCTS

2.1 Materials

- A. Portland Cement: ASTM C150, Type I.
- B. Masonry Cement: ASTM C91.
- C. Mortar Aggregate: ASTM C144; clean, dry, and free of foreign matter, meeting following gradation:

Sieve Size	<u>Mortar Aggregate Gradation</u>	
	<u>Percent Passing</u>	
	Natural Sand	Manufactured Sand
No. 4	100	100
No. 8	95 - 100	95 - 100
No. 16	70 - 100	70 - 100
No. 30	40 - 75	40 - 75
No. 50	10 - 35	20 - 40
No. 100	2 - 15	10 - 25
No. 200	0 - 5	0 - 10

- D. Grout Aggregate: ASTM C404, maximum 3/8 inch size.
- E. Hydrated Lime: ASTM C207, Type S.
- F. Premix Mortar: ASTM C387.
- G. Clean and potable water.

2.2 Mortar Color

- A. Mineral oxide pigment; Western Lime and Cement, Medusa or equivalent. Color to be approved by Owner.

2.3 Admixtures

- A. None permitted.

2.4 Mortar Mixes

- A. Meet requirements of ASTM C270. Provide types in accordance with the following:

Selection of Masonry Mortars

<u>Location</u>	<u>Building Segment</u>	<u>Mortar Type</u>
Exterior, above grade	Load bearing wall	N or S
	Non-load bearing wall	N or S
	Parapet wall	N or S
Exterior, at or below grade	Foundation wall, retaining wall, M manholes, sewers, pavements, walks	

2.5 Mixing Mortar

- A. Thoroughly mix mortar ingredients in quantities needed for immediate use in accordance with ASTM C270.
- B. Add mortar color, if required, in accordance with the manufacturer's instructions. Provide uniformity of mix and coloration.
- C. Add water repellent admixture when mortar is to be used for concrete block in exterior walls or at wet locations.
- D. Use mortar within two hours after mixing.

PART 3 - EXECUTION

3.01 Installation

- A. Install mortar as indicated in individual masonry sections.

END OF SECTION

SECTION 04 20 00 UNIT MASONRY

PART 1 – GENERAL

DESCRIPTION

Work of this section includes providing all materials, labor, equipment, and supervision necessary to provide unit masonry work as described in these specifications and illustrated on the drawings.

RELATED WORK:

Section 04 05 13 - Mortar and Grout

Section 04 43 13 – Stone Masonry

REFERENCES

Follow applicable portions of the references and standards listed below:

ASTM A 82,	"Standard Specification for Steel Wire, Plain, for Concrete Reinforcement."
ASTM A 153,	"Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware."
ASTM C 55,	"Standard Specification for Concrete Building Brick."
ASTM C 144,	"Standard Specification for Aggregate for Masonry Mortar."
ASTM C 150,	"Standard Specification for Portland Cement."
ASTM C 207,	"Standard Specification for Hydrated Lime for Masonry Purposes."
ASTM C 270,	"Standard Specification for Mortar for Unit Masonry."
NCMA-TEK 45,	"Removal of Stains from Concrete Masonry Walls"; National Concrete Masonry Association.

SUBMITTALS

Masonry Units: Submit a sample of each concrete masonry unit (CMU) type required.

QUALITY ASSURANCE

General: Follow recommendations of the National Concrete Masonry Association (NCMA).

DELIVERY, STORAGE, AND HANDLING

Protection: Provide protection which will limit moisture absorption of concrete masonry units to the maximum percentage specified for Type I units for the average relative humidity at the project site.

Storage: Store cementitious materials off the ground and protected from moisture. Store aggregates in a manner which will preserve grading characteristics. Store masonry accessories to prevent corrosion, dirt accumulation, and other deterioration.

Product Handling: Carefully unload and neatly stack brick and concrete masonry units on or near the project site, undamaged and adequately protected at all times. Protect stored masonry materials under cover until installed.

PROJECT CONDITIONS

Protection: Provide protective cloths and barriers to prevent debris from masonry construction operations from infiltrating adjacent occupied areas or areas where masonry work isn't required. Do not permit excessive debris and dust to be tracked into other areas where extraordinary clean-up would not typically be required.

Keep mortar droppings and material residue from accumulating excessively. Perform regular cleaning and disposal during cmu wall construction.

During construction, cover tops of exterior walls with waterproof sheet material at end of each day. Cover partially completed masonry construction when work is not in progress.

Cold Weather Protection: Do not lay masonry units when outside air temperature is below 40 degrees F (4.4 degrees C) unless enclosures and temporary heating are provided.

PART 2 – PRODUCTS MATERIALS

Mortar: See Mortar and Grout, Specification Section 04 05 13

UNIT MASONRY TYPES

General

Size: Manufacturer's standard units with nominal face dimensions of 16 inches long and 8 inches with nominal thicknesses as indicated on drawings for various locations.

Outside/Opening Corners: Square-edged units except where otherwise indicated.

Type 1 - Concrete Masonry Units: ASTM C 90, Hollow load-bearing units, Grade N-1; manufactured with sand and gravel aggregate complying with ASTM C 33. Standard grey color.

MASONRY REINFORCING AND TIES

Reinforcing Bars: ASTM A 615 and Supplementary Requirement (S1), Grade 60 deformed steel rods. Provide lengths, diameters and shapes as detailed.

PART 3 – EXECUTION

PREPARATION:

General: Inspect surfaces to receive masonry work; verify vertical dimensions, wall width dimensions, surface evenness. Verify that surfaces are free of foreign materials, dimensionally correct and have built-in items required by other trades in place prior to commencing masonry work. Coordinate corrections with contractor responsible.

Materials: All units used in the work shall conform to specified testing requirements.

Mortar Mixing: Provide mortar accurately proportioned for each batch and thoroughly mixed for a minimum of three to five minutes after all materials have been deposited into the mixer, with water sufficient for desired workability.

Concrete Masonry Units: Do not wet concrete masonry units prior to laying.

INSTALLATION:

General:

Lay masonry utilizing all necessary care to achieve cleanliness. Remove excess mortar from exposed exterior and interior (stone, clay, concrete and other) masonry surfaces as the work progresses and before it adheres to the faces of the masonry.

Saw cut brick and concrete masonry units when required to fit non-modular lengths or coursing.

Material Handling: Handle units with care to avoid chipping, cracking and spalling of faces and edges. Cut units with a high speed motor-driven masonry saw designed for the purpose. Cut edges clean, true and sharp. Do not place pieces smaller than 4 inches (102mm) wide at vertical corners or jambs. Fill joints with mortar.

Stopping and Resuming Work: Lay masonry in proper sequence to avoid toothing. Rake walls back in each course at end of each work day. Before resuming, clean exposed surfaces and remove loose masonry units and mortar.

Lightly wet previously laid brick masonry units which have rate of absorption (suction) of more than 30 grams, per ASTM C 67, before laying fresh masonry.

CONSTRUCTION TOLERANCES:

Variation from Plumb: Do not exceed the following construction tolerances in vertical elements:

1/4 inch in 10 feet (6mm in 3.05m).

3/8 inch (10mm) in one story height, or 20 feet (6.1m), whichever is less, except

1/4 inch (6mm) for external corners, expansion joints, and vertical elements to remain exposed.

1/2 inch in 40 feet (13mm in 12.2m) or more.

Plus or minus 1/4 inch in 10 feet (6mm in 3.05m), 1/2 inch (13mm) maximum, for vertical alignment of head joints.

Variation from Level: Do not exceed the following construction tolerances for bed joints and lines of exposed lintels, sills, parapets, horizontal grooves, and other conspicuous horizontal elements:

1/4 inch (6mm) in one bay or in 20 feet (6.1m) maximum.

1/2 inch in 40 feet (13mm in 12.2m) or more.

Variation from Plan Lines: Do not exceed the following horizontal construction tolerances for related portions of columns, walls, and partitions:

1/2 inch (13mm) in any bay or in 20 feet (6.1m) maximum.

3/4 inch in 40 feet (19mm in 12.2m) or more.

Variation in Cross Section: Do not exceed the following construction tolerances for thickness of walls and other masonry elements:

Minus 1/4 inch (6mm); Plus 1/2 inch (13mm).

Variation in Mortar Joint Thickness: Do not exceed the following construction tolerances for thickness of mortar joints:

Bed and Head joints: Plus or minus 1/8 inch (3mm).

Unit Masonry: Lay units plumb, straight and true with even vertical and horizontal joints; match adjacent existing coursings and patterns. In cavity wall construction, apply mortar to back edge of units at 45 degree angle to minimize mortar extrusion and droppings into cavity behind brick.

Joints: Match existing.

Tooled Joints: Tool exposed joints when thumbprint hard using 5/8 inch (16mm) curved tooling iron. Tool mortar surfaces to bring fines to surface and adequately seal joints. Trim mortar fins, leaving work clean and neat. Strike concealed joints flush to prevent the extruded mortar from affecting other work.

PROTECTION

Install no masonry when temperature is below 32 degrees F (0 degrees C) on a rising trend or below 40 degrees F (4.5 degrees C) on a falling trend unless provisions are made for heating materials and protecting Work in place.

Protect finished work from freezing temperatures 48 hours minimum after last Work of the day is completed.

Strike joints flush for masonry walls to be concealed or covered by other materials, unless otherwise indicated.

REINFORCING AND ANCHORS

Grouting: Where required by drawings, fill masonry unit cells surrounding vertical steel bar reinforcing or with structural anchors with grout using NCMA TEK 23A low-lift or high-lift grouting technique.

Anchorage: Use anchor appropriate for securing block masonry to structural members . Verify type, location and spacing of anchors installed by other trades.

Space anchors maximum 24 inches (610mm) on center vertically and 16 inches (406mm) on center horizontally. Provide special anchor spacing to suit conditions when detailed on drawings.

CLEANING:

General: All masonry shall be in a condition for final acceptance within 24 hours after laying and maintained in that condition by meeting or exceeding the degree of cleanliness shown on approved sample panels.

Remove mortar protrusions and smears as masonry units are laid and tooled and at the start of the next day's work, leaving the surface of the masonry clean and finished. Contractor may use calcimine brushes, stiff fiber brushes, other similar masonry units, burlap, rags, carpet remnants, rubber floats or other approved means.

DO NOT USE chemical cleaning agents or harsh physical cleaning methods. Included as chemical cleaners and prohibited are most manufactured masonry cleaning solutions or compounds. Equipment or

methods and techniques utilized, reduced productivity, as well as weather conditions experienced will not relieve Contractor of required compliance.

PROTECTION

Cover adjacent finished surfaces to prevent mortar spattering and maintain masonry in a clean condition for acceptance when all work is completed. Cover portions of finished masonry below new work in progress with polyethylene, canvas or other approved means when necessary to maintain clean masonry.

No final wash-down is required except for removal of earthy construction dirt or dust.

CONDITIONS FOR REJECTION

Unit masonry work is subject to rejection when:

Installed work does not comply with specified tolerances.

Masonry is not cleaned as specified and walls have an unsatisfactory appearance upon completion.

END OF SECTION

SECTION 04 43 13 STONE MASONRY

PART 1 - GENERAL

1.1 Section Includes

- A. Stone veneer for landscape walls.
- B. Stone caps.
- C. Limestone Borders and Steps

1.2 Related Sections

- A. Section 04 05 13 - Mortar and Grout.
- B. Section 03 30 00 - Cast In Place Concrete
- C. Section 04 20 00 – Unit Masonry

1.3 References

- A. ASTM C97 - Standard Specification for Absorption and Bulk Specific Gravity of Dimension Stone.
- B. ASTM C170 - Standard Specification for Compressive Strength of Dimension Stone.
- C. ASTM C568 - Standard Specification for Limestone Dimension Stone.
- D. ASTM C880 - Standard Specification for Flexural Strength of Dimension Stone.
- E. ACI 530.1/ASCE 6/TMS 602 - Specifications for Masonry Structures.

1.4 Submittals

- A. Product data for natural dimensional stone.
- B. Selection Samples: For each stone product specified, submit two samples, minimum size 6 inches long, representing color range, surface, and texture.

1.5 Quality Assurance

- A. Manufacture's qualifications: Company owning and operating stone quarry and specializing in quarrying, cutting, and dressing natural stone for masonry assemblies with 5 years minimum successful experience.
- B. Installer qualifications: Company specializing in performing stone masonry work with 5 years documented, successful experience.

1.6 Delivery, Storage, and Handling

- A. Deliver, store, and handle stone units in a manner to avoid chipping, breakage, marring faces, and contact with contaminating materials.
- B. Store stone on wood pallets and store on dry, level surface. Cover pallets with tarps. Do not stack pallets or allow them to sit in standing water.

Environmental Requirements

- A. Maintain materials and surrounding air temperature to following limits prior to, during, and 24 hours after completion of masonry veneer.
 - 1. Minimum 40 degrees F.
 - 2. Maximum 90 degrees F.
- B. Hot and Cold Weather Requirements: In accordance with ACI 530.1/ASCE 6/TMS 602 Specifications for Masonry Structures.
- C. When ambient temperature falls below 50 degrees F, heat mortar mixing water

PART 2 - PRODUCTS

2.1 Acceptable Suppliers

- A. Stone Quarriers: Fond du Lac Stone Inc.; 920.921.8280.
 Madison Block and Stone; 608.249.5633.

2.2 Seating Wall Limestone Veneer

- A. Heritage Manor, Fond du Lac Stone Inc. or approved equal:
 - 1. Nominal size range:
 - a. Length: 8-30 inches.
 - b. Height: 4-12 inches.
 - 2. Color range: buff, tan.

2.3 Seating Wall Limestone Caps

- A. Fox Valley Caps, Madison Block and Stone; or approved equal.
 - 1. Nominal size range:
 - a. Thickness: 4 inches
 - b. Width: 22-24 inches
 - 2. Color range: Light beige, buff, gray
 - 3. Finish: Natural Surface Top/Bottom

2.4 Limestone Borders and Step

- A. Fond du Lac Wall Stone, Madison Block and Stone or approved equal.
 - 1. Nominal size range:
 - a. Thickness: 8 inches
 - b. Width: 12-14 inches
 - c. Length: 15-18 inches
 - 2. Color range: Light beige, buff, gray

PART 3 - EXECUTION

3.1 Preparation

- A. Clean seating inner support wall surfaces thoroughly.

3.2 Installation

- A. Install stone and mortar in accordance with the manufacturer's instructions and in accordance with ACI 530.1
- B. Seating Wall Limestone Veneer:
 - 1. Sort stone in advance to achieve uniform color and size ranges of stone throughout all wall surfaces.
 - 2. Coursing patterns and joints: Match existing seating wall to the extent possible.
- C. Seating Wall Limestone Cap:
 - 1. Sort stone in advance to achieve uniform color and size ranges of stone throughout all cap stone surfaces.
 - 2. Overhang and joints: Match existing cap stone to the extent possible.
- D. Limestone Borders and Step:
 - 1. Sort stone in advance to achieve uniform color and size ranges of stone throughout borders and step.
 - 2. Excavate existing gravel/sub-grade conditions as necessary to level stones with tight butt joints. Surplus soil material may be stockpiled on site for re-use by other.
- E. Remove excess mortar as work progresses to prevent staining.
- F. Exercise care that wet mortar is not splashed onto stone face during installation. Excess or splashed mortar shall be cleaned from face with dry burlap wipe. Remove excess mortar after mortar becomes hard enough not to smear but prior to mortar setting.
- G. Ensure that sealant materials (if utilized) are not smeared onto stone faces. Remove as recommended by manufacturer.
- H. Joining Work: Where fresh masonry joins partially set masonry.
 - 1. Remove loose stone and mortar.

2. Clean and lightly wet surface of set masonry.
3. To avoid a horizontal run of masonry, rack back 1/2 the length of stone in each course.
4. Tothing is not permitted.

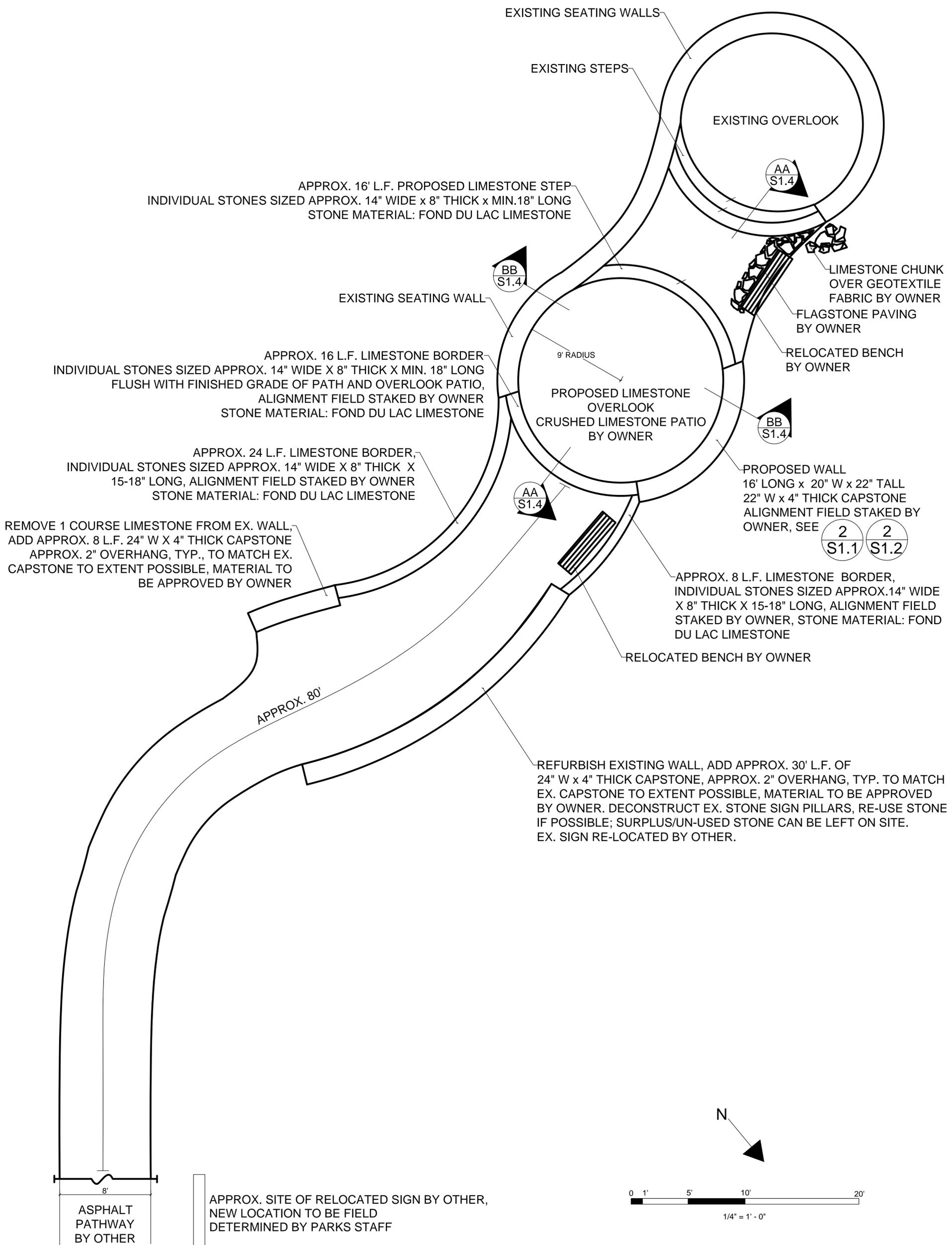
3.3 Cleaning

- A. Keep face of stone free of mortar as work progresses.
- B. Remove excess mortar and mortar smears as work progresses.
- C. Allow walls to air dry. Brush off mortar with stiff fiber brush. Do not use metallic tools for cleaning.
- D. Contact stone manufacturer for detailed cleaning if chemicals are required.

3.4 Protection

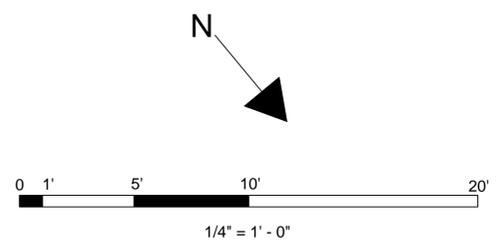
- A. Protect installed products until completion of project.
- B. Cover the top of unfinished stone masonry work at the end of each workday to protect it from the weather.
- C. Touch-up, repair or replace damaged products before substantial completion.

END OF SECTION



ASPHALT PATHWAY BY OTHER

APPROX. SITE OF RELOCATED SIGN BY OTHER, NEW LOCATION TO BE FIELD DETERMINED BY PARKS STAFF



ORIGINAL:	7/11/16 SJC
REVISIONS:	
1/18/17	SJC
2/1/17	SJC
2/7/17	SJC
2/21/17	SJC
5/1/17	SJC
PUB. W. PROJECT #:	

SITE PLAN

S1.0

**FESTGE CO. PARK
OVERLOOK
RESTORATION
PHASE 2**

4894 Schenkel Road
Cross Plains, WI 53528

5201 Fen Oak Drive, Room 208
Madison, WI 53718
P: (608) 224-3730
F: (608) 224-3745
www.danecountyparks.com





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FESTGE CO. PARK

OVERLOOK RESTORATION PHASE 2

4894 Scherbel Road
 Cross Plains, WI 53528

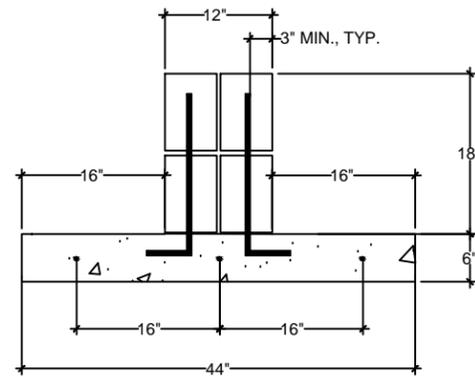
ORIGINAL: 7/11/16 SJC

REVISIONS:	
1/18/17	SJC
2/1/17	SJC
2/7/17	SJC
2/21/17	SJC
4/17/17	SJC

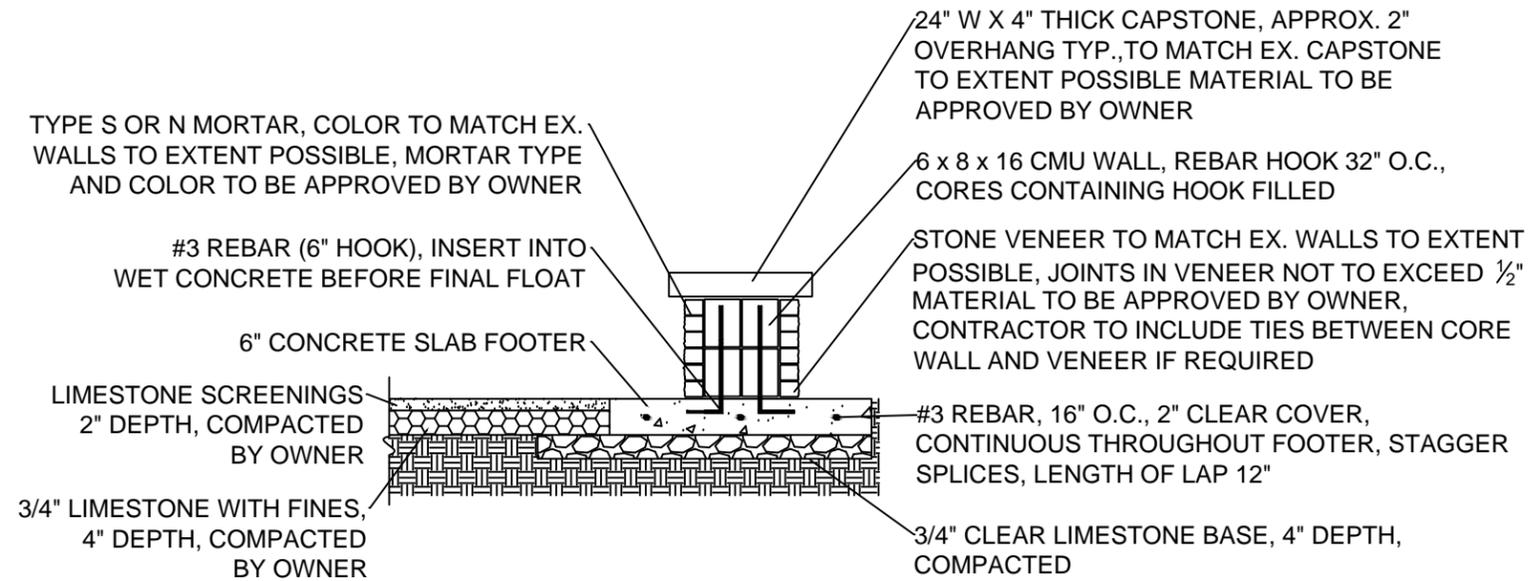
PUB. W. PROJECT #:

CMU CORE SEATING WALL DETAILS

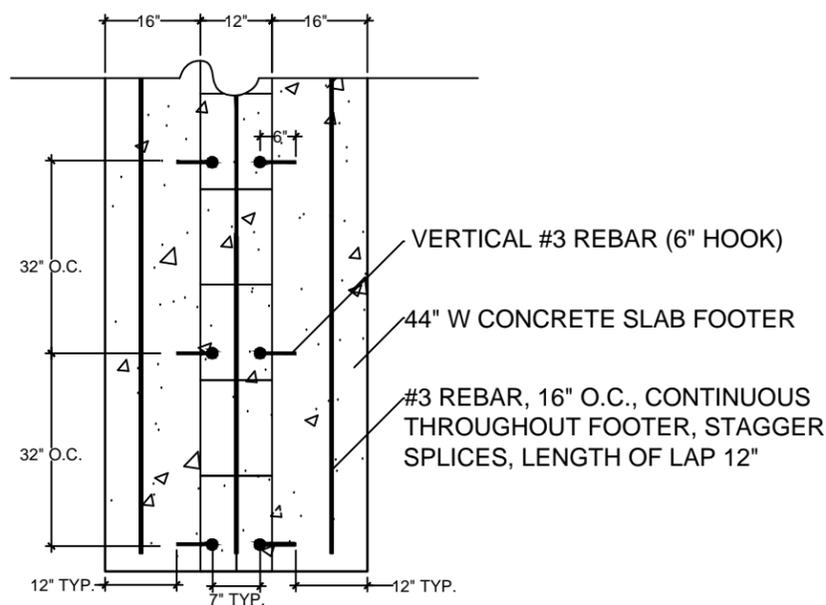
S1.1



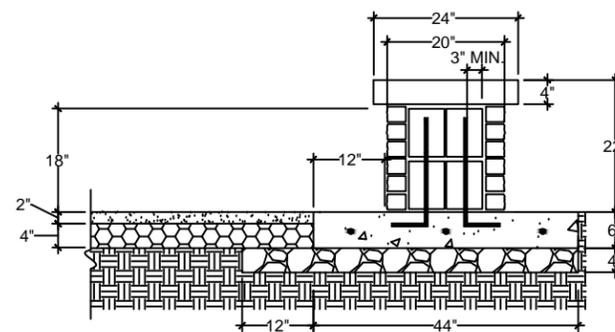
1 SLAB FOOTER/CMU CORE DIMENSION PLAN
 N.T.S.



2 CMU CORE STONE VENEER WALL DETAIL
 N.T.S.



3 CONCRETE SLAB FOOTER DETAIL
 N.T.S.



4 CMU CORE STONE VENEER WALL DETAIL- DIMENSION PLAN
 N.T.S.

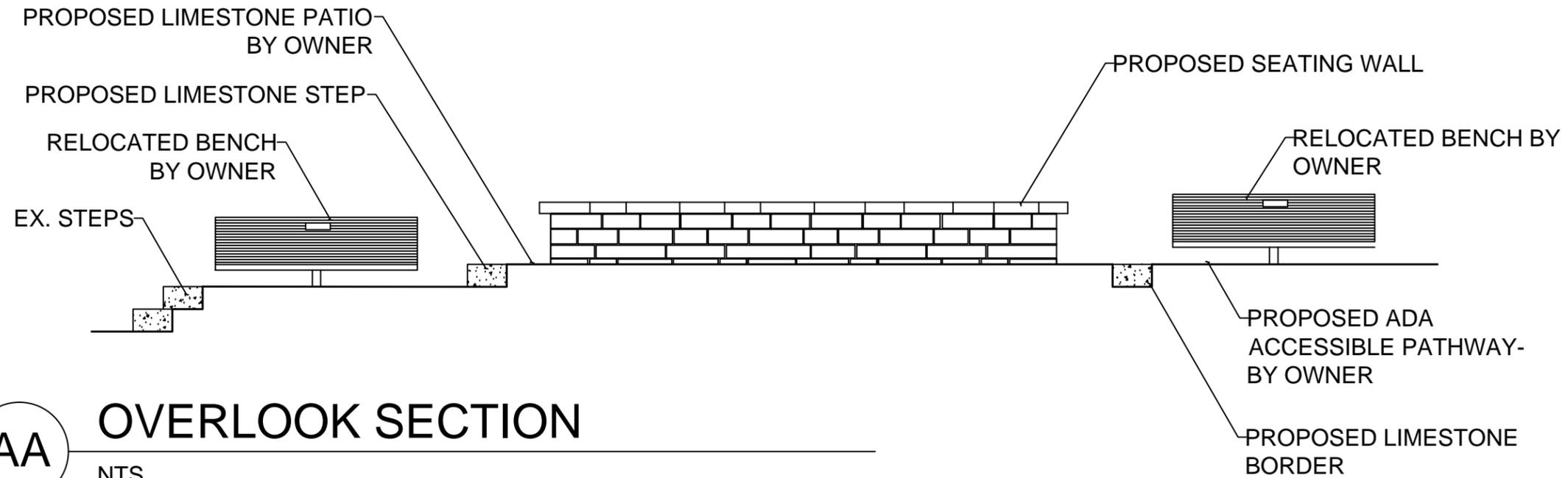
CONCRETE SPECIFICATIONS

- AIR CONTENT = 4%-7%
- SLUMP = 2 TO 4 INCHES
- STRENGTH = 4,000 PSI
- WATER-CEMENT RATIO = 0.5 MAX.
- COARSE AGGREGATE = 1-1/2 INCH MAX.
- FLY ASH, SLAG, AND WATER-REDUCING ADMIXTURES ALLOWED
- POLYPROPYLENE FIBERS REQUIRED EQUAL TO #4 BARS AT 12 INCHES O.C.
- INCLUDE WATERPROOFING ADMIXTURE, EXAMPLE XYPEX ADMIX C-500 NF



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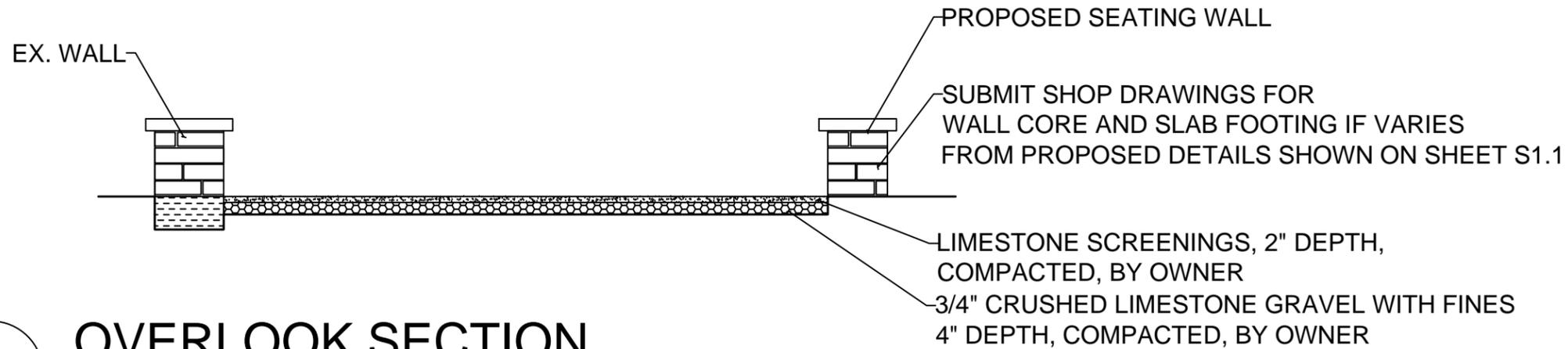


AA OVERLOOK SECTION
 NTS

FESTGE CO. PARK

OVERLOOK RESTORATION PHASE 2

4894 Scherbel Road
 Cross Plains, WI 53528



BB OVERLOOK SECTION
 NTS

ORIGINAL: 7/11/16 SJC

REVISIONS:	
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2/1/17	SJC
2/7/17	SJC
2/21/17	SJC

PUB. W. PROJECT #:

OVERLOOK SECTIONS

S1.4