

**INVITATION TO BID - SMALL PUBLIC WORKS ROSTER
SAKAI PARK TENNIS COURTS #3010
CONTRACT DOCUMENTS**

- Project Manager:** David Harry, dharry@biparks.org, 206-351-4659
- Project Location:** Sakai Park, 1560 Madison Ave N, Bainbridge Island, WA 98110
- Pre-Bid Walkthrough:** Park is open to public from dawn to dusk for bidder walkthrough
- Last Day for Questions:** **July 3rd, 2024, 4:00 PM:** All written questions, if any, shall be answered and published in an addendum on July 5th, 2024 to ensure equitable access to information
- Bids Due No Later Than:** **July 10, 2024, 2:00 PM (PST) Mailed or Dropped Off At:**
Bainbridge Island Recreation Center, ATTN: Michelle Miller
11700 Meadowmeer Circle NE, Bainbridge Island, WA 98110
No Email Bids will be accepted.
- Bid Opening:** No formal bid opening required pursuant to RCW 39.04.155
The successful bidder will be notified by mail.
Bids received after the appointed time set for receipt will be returned unopened.

Bid Documents may be viewed at www.biparks.org/doing-business

Questions may be directed to Michelle Miller, Procurement Manager, michellem@biparks.org

OUTLINE

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June 20th, 2024

INVITATION TO BID
Bainbridge Island Metropolitan Park & Recreation District
BID NOTICE
Project: Sakai Park Tennis Courts #3010

The Bainbridge Island Metropolitan Park and Recreation District will receive bids for **Sakai Park Tennis Courts SWR Bid #3010** at the Administrative Office located at the Bainbridge Island Recreation Center, 11700 Meadowmeer Circle NE, Bainbridge Island, WA 98110 until 2 pm PST, July 10th, 2024. Bids received after the appointed time set for receipt will be returned unopened. Email bids will not be accepted. All work completed for the Bainbridge Island Metropolitan Park District will be considered a public works project with prevailing wage documentation required.

Contact:  **David Harry, Project Manager, dharry@biparks.org or 206-351-4659**

This project includes, but is not limited to:

Providing all prevailing wage labor, materials, equipment, tools, services, and guarantees thereof necessary for installing two United States Tennis Association (USTA) standard tennis courts, a parking area, an adjoining rain garden to manage stormwater runoff, and application of acrylic color and line paint to the play surface. There is an option to add on pricing for a gravel road realignment.

Prospective bidders may access the public park site for walkthroughs between dawn and dusk.

Bid documents may be viewed at www.biparks.org/doing-business

PROJECT DESCRIPTION – SCOPE OF WORK

This scope of work outlines the requirements and activities necessary for clearing the designated area, preparing the site, installing two United States Tennis Association (USTA) standard tennis courts, a parking area, an adjoining rain garden to manage stormwater runoff, and application of acrylic color and line paint to the play surface. This scope of work outlines the tasks, responsibilities, and deliverables required for successful project completion.

We are seeking a contractor who can:

- Provide all the necessary labor, materials, equipment, tools, and guarantees thereof to construct; two (2) fenced tennis courts, parking, and drainage structures per contract drawings.
- Comply with all permits and inspections required by the city, county, state and federal codes.
- Grade and prepare site per contract drawings
- Install native plant rain garden per contract drawings
- Install gravel base and gravel top course to engineered specifications
- Construct parking area with one (1) van accessible ADA-compliant concrete parking space, one (1) standard vehicle parking space, and sidewalks per contract drawings, meeting all local regulations and standards.
- Stripe tennis courts per plans and ADA parking space per standard design.
- Install tennis court infrastructure per contract drawings.
- Complete painting and striping per USTA guidelines for 36' and 60' blended lines on 78' tennis court
- Install 8' perimeter court fencing per contract drawings.
 - *Perimeter Court fencing 10' will be an alternative on the submittal*
- Perform site cleanup per contract drawings

Optional Add On: Gravel Road Realignment

Option Description: This addendum includes an option for the realignment of the current entrance with new road construction. Bidders are invited to provide a separate cost estimate and timeline for this additional work, which aims to improve site accessibility. It includes a 20-foot-long asphalt road approach at the Madison Ave entry as shown on S-1 of the plans.

Technical Specifications:

- Survey and Design: Conduct a survey of the existing road and design the new alignment to improve access and safety.
- Clearing and Grading: Clear the area for the new road alignment and grade to ensure a stable base.
- Base and Surface: Install a suitable road base (e.g., gravel, crushed stone) and surface gravel per drawings.
- Drainage: Implement drainage solutions to prevent water accumulation on and around the road.
- Signage and Markings: Install appropriate signage and road markings to guide traffic.
- Site Plan: Please refer to the attached site plan for the detailed layout and location of the road realignment.

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INVITATION TO BID

1. NOTICE TO BIDDERS

- a. Bids will be received by the Bainbridge Island Metropolitan Park & Recreation District, Bainbridge Island, WA, and are to be delivered to the Administrative Office located at the Bainbridge Island Recreation Center, 11700 Meadowmeer Cir. NE, Bainbridge Island, WA 98110, no later than 2:00 p.m. (Pacific Standard Time), on July 10th, 2024.
- b. There will not be a public opening. The successful bidder will be notified by mail.

2. BIDDING DOCUMENTS

- a. The bidding documents shall consist of:
 1. Bid Notice
 2. This Invitation to Bid
 3. Instructions to Bidders
 4. General Conditions
 5. Memorandum to All Potential Bidders
 6. Bidder's Proposal and Proposal Signature Sheet
 7. Bidder's Bond
 8. Sample Performance and Payment Bond
 9. Sample Retainage Bond
 10. Sample Contract for Construction Services
 11. Washington State Prevailing Wage Rates-Kitsap County
 12. Technical Specifications and List of Drawings listed in the Table of Contents of Drawings if applicable
- b. All of the bidding documents are on file in the office of the Owner. Bona fide bidders may obtain bidding documents, available June 20th, 2024, online at www.biparks.org/doing-business. Questions may be directed to Michelle Miller, Procurement Manager, michellem@biparks.org

3. BID SECURITY

Each bid must be accompanied by a certified check for 5% of the total maximum amount of the bid, made payable to the Owner, or a bid bond in the form furnished by the Owner for 5% of the total maximum amount of the bid, as a guarantee that the bidder will promptly execute a valid contract with the Owner in accordance with the bidding documents. If a bid bond is used, the 5% may be shown in dollars and cents or the form may be filled in by inserting therein, in lieu of dollars of cents, "5% of the amount of the accompanying proposal." Bonds must be satisfactory to the Owner. Check or bid bond of the successful bidder will be returned immediately upon execution of contract in acceptance of performance and payment bond. All other checks will be returned upon execution of the contract. The Bidder acknowledges that the Owner will suffer substantial damages if Bidder refuses to enter the Contract or furnish the required bonds but that such damages are difficult to determine with precision. If the Bidder refuses to enter into such Contract or fails to furnish such bonds if required (all within the required time), then the

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Owner may elect to retain and forfeit the good security or Bid Bond as liquidated damages (and not a penalty) or collect actual damages from the Bidder.

4. PRE-BID INSPECTION OF PROJECT SITE

Contractors are responsible for conducting their own site inspection prior to bidding to determine the logistics of performing the work under the contract.

5. REJECTION OF BIDS

The Owner shall have the right to reject any or all bids or any items of the bid and in particular to reject a bid not accompanied by any required bid security or data required by the bidding documents or bid in any way incomplete or irregular. Any or all bids may be rejected for good cause.

6. CONTRACT AWARD

- a. The contract shall be awarded to the lowest responsible bidder. The Owner reserves the right to waive informalities or technical defects as of the interest of the Owner may require.
- b. No bidder may withdraw his/her bid after the hour set for the opening of bids or before the award of the contract.
- c. Proposals must be made on the Bidder's Proposal Form.
- d. Bids will only be accepted by postal mail or in person. No email bids shall be accepted.

ARTICLE 1

DEFINITIONS

1.1 Bidding Documents include the Bid Notice, Invitation to Bid, Instructions to Bidders, General Conditions for Bainbridge Island Metropolitan Park and Recreation District Public Works Projects, Supplemental Conditions to the General Conditions for Bainbridge Island Metropolitan Park and Recreation District Public Works Projects, Special Provisions if applicable, Memorandum to All Potential Bidders, Bidder's Proposal and Proposal Signature Sheet, Subcontractor Listing Form if project is estimated at \$1,000,000 or more, Bidder's Bond, Sample Faithful Performance and Payment Bond, Sample Retainage Bond, Sample Escrow Agreement, Sample Contract for Construction Services, Washington State Prevailing Wage Rates and Benefit Code Key, Davis-Bacon Wage Determinations if project has Federal Funding, Technical Specifications and List of Drawings listed in the Table of Contents, Drawings if applicable, and any addenda issued prior to receipt of bids.

The Contract Documents proposed for the work consist of the Contract for Construction Services, the conditions of the Contract (General, Supplementary and any other conditions), applicable Washington State Prevailing Wage Rates and Benefit Code Key, applicable Davis Bacon Wage Determinations if project has Federal Funding, the Drawings and Specifications, and all addenda issued prior to, and all modifications issued after execution of the Contract.

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1.2 All definitions set forth in the General Conditions for Bainbridge Island Metropolitan Park and Recreation District Public Works Projects, and in other Contract Documents are applicable to the Bidding Documents.

1.3 Addenda are written, or graphic instruments issued by the Architect prior to the execution of the Contract, which modify or interpret the Bidding Documents by additions, deletions, clarifications, or corrections.

1.4 A Bid is a complete and properly signed proposal to do the Work or designated portion thereof for the sums stipulated therein, submitted in accordance with the Bidding Documents.

1.5 The Base Bid is the sum stated in the Bid for which the Bidder offers to perform the Work described in the Bidding Documents as the base, to which work may be added or from which work may be deleted for sums stated in Alternate Bids.

1.6 An Alternate Bid (or Alternate) is an amount stated in the Bid to be added to or deducted from the amount of the Base Bid if the corresponding change in the Work, as described in the Bidding Documents, is accepted.

1.7 A Unit Price is an amount stated in the Bid as a price per unit of measurement for materials or services as described in the Bidding Documents or in the proposed Contract Documents.

1.8 A Bidder is a person or entity who submits a Bid.

1.9 A Sub-bidder is a person or entity who submits a bid to a Bidder for materials or labor for a portion of the Work.

ARTICLE 2

BIDDER'S REPRESENTATIONS

2.1 Each Bidder by making his Bid represents that:

2.1.1 He has read and understands the Bidding Documents and his Bid is made in accordance therewith.

2.1.2 He has visited the site, familiarized himself with the local conditions under which the Work is to be performed, and correlated his observations with the proposed Contract Documents' requirements.

2.1.3 His Bid is based upon the materials, systems, and equipment required by the Bidding Documents without exception.

ARTICLE 3

BIDDING DOCUMENTS

3.1 COPIES

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3.1.1 Bidders may obtain complete sets of the Bidding Documents from the issuing office designated in the Invitation to Bid for the fee designated. This will be considered a sale and will involve no refunding.

3.1.2 Bidding Documents may be issued directly to Sub-Bidders.

3.1.3 Bidders shall use complete sets of Bidding Documents in preparing Bids; neither the Owner nor the Architect assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

3.1.4 The Owner or the Architect, in making copies of the Bidding Documents available on the above terms does so only for the purpose of obtaining Bids on the Work and does not confer a license or grant for any other use.

3.2 INTERPRETATIONS OR CORRECTION OF BIDDING DOCUMENTS

3.2.1 Bidders or Sub-bidders shall promptly notify the Architect of any ambiguity, inconsistency, or error, which they may discover upon examination of the Bidding Documents or of the site and local conditions.

3.2.2 Bidders and Sub-bidders requiring clarification or interpretation of the Bidding Documents shall make a written request which shall reach the Architect at least seven days prior to the date for receipt of Bids.

3.2.3 Any interpretation, correction, or change of the Bidding Documents will be made by Addendum. (See 3.4) Interpretations, corrections or changes of the Bidding Documents made in any other manner will not be binding, and Bidders shall not rely upon such interpretations, corrections, and changes.

3.3 SUBSTITUTIONS

3.3.1 The materials, products, and equipment described in the Bidding Documents establish a standard of required function, dimension, appearance, and quality to be met by any proposed substitution.

3.3.2 No substitution will be considered prior to receipt of Bids unless a written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, performance and test data and any other information necessary for an evaluation. A statement setting forth any changes in other materials, equipment or other Work incorporated by the substitute shall be included. The burden of proof of the merit of the proposed substitute is upon the proposer. The Architect /Owner's decision of approval or disapproval of a proposed substitution shall be final and binding.

3.3.3 If the Architect/Owner approves any proposed substitution prior to receipt of Bids, such approval will be set forth in an Addendum. Bidders shall not rely upon approvals made in any other manner. Should any proposed product substitution require any re-design work by the Architect/Owner or his

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consultants to accommodate the substitute product, costs for such redesign work shall be included in the Bid amount and shall be paid to the Architect at his usual rates/Owner at reasonable rates for the time expended in the required re-design work.

3.3.4 No substitutions will be considered after the Contract award unless specifically provided in the Contract Documents.

3.3.5 Substitution requests shall be made only on the Substitution Request Form found hereinafter. Fill in all data requested on the form and such form shall be received by the Architect at least ten days prior to the date for receiving bids.

3.4 ADDENDA

3.4.1 Addenda will be mailed or delivered to all who are known by the Architect/Owner to have received a complete set of Bidding Documents.

3.4.2 Copies of Addenda will be made available for inspection wherever Bidding Documents are on file for that purpose.

3.4.3 No Addenda will be issued later than four days prior to the date for receipt of Bids except an Addendum withdrawing the request for Bids or one, which includes postponements of the date for receipt of Bids.

3.4.4 Each Bidder shall ascertain prior to submitting his bid that he has received all Addenda issued, and he shall acknowledge their receipt in his Bid.

3.5 DRAWINGS AND PROJECT MANUALS, COORDINATION

3.5.1 Prior to submitting a bid proposal for work being bid upon, examine and coordinate all Bidding Documents with all other contracts to be awarded separately from but in connection with the work being bid upon, so that Bidder is fully informed as to conditions affecting work under contract being bid upon. Failure to do so shall not be the cause of any additional costs for work caused therefrom.

ARTICLE 4

BIDDING PROCEDURE

4.1 FORMS AND STYLE OF BIDS

4.1.1 Bids shall be submitted on forms identical to the form included with the Bidding Documents.

4.1.2 All blanks on the bid form shall be filled in by typewriter or manually in ink.

4.1.3 Where so indicated by the makeup of the bid form, sums shall be expressed in both words and figures, and in case of discrepancy between the two, the amount written in words shall govern.

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4.1.4 Any interlineation, alteration, or erasure must be initialed by the signer of the Bid.

4.1.5 All requested Alternates shall be bid. If no change in the Base Bid is required, enter "No Change".

4.1.6 Where two or more Bids for Designated portions of the Work have been requested, the Bidder may, without forfeiture of his bid security, state his refusal to accept award of less than the combination of Bids he so stipulates. The Bidder shall make no additional stipulations on the bid form nor qualify his Bid in any other manner.

4.1.7 The prices in the Bid shall include all applicable federal, state, and local taxes for the job site, Bainbridge Island, Kitsap County, Washington.

4.1.8 Each copy of the Bid shall include the legal name of the Bidder and a statement that the Bidder is a sole proprietor, a partnership, a corporation, or some other legal entity. Each proposal signature sheet shall be signed by the person or persons legally authorized to bind the Bidder to a contract. A bid by a corporation shall further give the state of incorporation and have the corporate seal, if there is one, affixed. A bid submitted by an agent shall have a current power of attorney attached certifying the agent's authority to bind the Bidder.

4.2 BID SECURITY

4.2.1 Each Bid shall be accompanied by a bid security in the form and amount required by the Owner pledging that the Bidder will enter into a Contract with the Owner on the terms stated in his Bid and will, if required, furnish bonds as described hereunder in Article 7 covering the faithful performance of the Contract and the payment of all obligations arising thereunder. The Bidder acknowledges that the Owner will suffer substantial damages if Bidder refuses to enter into the Contract or furnish the required bonds but that such damages make it difficult to determine the precision. If the Bidder refuses to enter such Contract or fails to furnish such bonds if required (all within the required time), then the Owner may elect to retain and forfeit the good security of Bid Bond as liquidated damages (and not a penalty) or collect actual damages from the Bidder.

4.2.2 The surety bond shall be written on the Bid Bond form supplied with the Bidding documents, and the attorney-in-fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of his power of attorney.

4.2.3 The Owner will have the right to retain the bid security of Bidders to whom an award is being considered until either (a) the Contract has been executed and bonds, if required, have been furnished, or (b) the specified time has elapsed so that Bids may be withdrawn, or (c) all Bids have been rejected.

4.3 SUBCONTRACTORS

4.3.1 When the Owner's estimate of the project cost exceeds \$1,000,000 (including additive alternates), the bidder is required to list the names of the subcontractors with whom the bidder, if awarded the

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contract, will subcontract for performance of the work of: HVAC (heating, ventilation, and air conditioning); plumbing as described in chapter 18.106 RCW; and electrical as described in chapter 19.28 RCW, or to name itself for the work. The prime contract bidder shall not list more than one subcontractor for each category of work identified, unless subcontractors vary with bid alternates, in which case the prime contract bidder must indicate which subcontractor will be used for which alternate. Failure of the prime contract bidder to submit as part of the bid the names of such subcontractors or to name itself to perform such work or the naming of two or more subcontractors to perform the same work shall render the prime contract bidder's bid nonresponsive and, therefore, void. If the bidder does not intend to award any subcontracts for the base bid and alternates, the bidder shall so indicate on their subcontractor list. (Reference RCW 39.30.060)

4.3.2 Failure to meet this requirement shall render the bidder's bid non-responsive and, therefore, void.

4.3.3 The Bidder's list of subcontractors shall be submitted on the "Subcontractor Listing" form included with the bid documents.

4.3.4 The successful Bidder shall not be permitted to change Subcontractors named on the Subcontractor Listing without the prior written consent of the Owner and as stipulated in the General Conditions.

4.4 SUBMISSION OF BIDS

4.4.1 All copies of the Bid, the bid security, if any, and any other documents required to be submitted with the Bid shall be addressed to the Bainbridge Island Metropolitan Park and Recreation District and shall be identified with the Project name, the Bidder's name, and address and, if applicable, the designated portion of the Work for which the Bid submitted.

4.4.2 Bids shall be deposited at the designated location prior to the time and date for receipt of Bids indicated in the Invitation to Bid, or any extension thereof made by Addendum. Bids received after the time and date for receipt of Bids will be returned unopened. Bids received after the submittal deadline or at the wrong location will be rejected as non-responsive.

4.4.3 All Bids shall be logged by the Owner upon receipt. The Bidder shall assume responsibility that the Bid be logged and for timely delivery at the location designated for receipt of Bids. A Bidder mailing its Bid bears the risk of non-receipt and the risk of failure to log or inaccurate logging.

4.4.4 Oral, telephonic Bids are invalid and will not receive consideration.

4.5 MODIFICATION OR WITHDRAWAL OF BID

4.5.1 A Bid may not be modified, withdrawn, or canceled by the Bidder during the stipulated time period following the time and date designated for the receipt of Bids, and each Bidder so agrees in submitting his Bid.

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4.5.2 Prior to the time and date designated for receipt of Bids, any Bid submitted may be modified or withdrawn by written notice to the Owner at the place designated for receipt of Bids. Such notice shall be in writing over the signature of the Bidder, written confirmation over the signature of the Bidder shall be mailed and postmarked on or before the date and time set for receipt of Bids, and it shall be so worded as not to reveal the amount of the original Bid.

4.5.3 Withdrawn Bids may be resubmitted up to the time designated for receipt of Bids if they conform with these Instructions to Bidders.

4.5.4 Bid security shall be in an amount sufficient for the Bid as modified or resubmitted.

ARTICLE 5 CONSIDERATION OF BIDS

5.1 OPENING OF BIDS

5.1.1 An abstract of the Base Bids and Alternate Bids, if any, will be made available to Bidders.

5.2 REJECTION OF BIDS

5.2.1 The Owner shall have the right to reject any or all Bids or any items of the Bid and to reject a Bid not accompanied by any required Bid security or by other data required by the Bidding Documents, or to reject a Bid, which is in any way incomplete or irregular. Any or all bids may be rejected for good cause.

5.2.2 If Owner determines that an apparent low bidder is not responsible, Owner will provide its reasons for the determination in writing to the bidder. The bidder may appeal the determination by within three (3) days of its receipt of Owner's determination presenting additional information to Owner. If bidder provides this additional information, Owner will provide a final and binding written determination to the bidder.

5.3 ACCEPTANCE OF BID (AWARD)

5.3.1 It is the intent of the Owner to award a Contract to the lowest responsible Bidder provided the Bid has been submitted in accordance with the requirements of the Bidding Documents and does not exceed the funds available. The Owner shall have the right to waive any informality, irregularity, or technical defect in any Bid or Bids received and to accept the Bid or Bids, which, in its judgment, is in its best interests. In selecting the most responsible Bidder, consideration will be given to financial standing and the general competency of the Bidder for the performance of the work covered by the proposal.

5.3.2 The Owner shall have the right to accept Alternates in any order or combination, unless otherwise specifically provided in Article 9, and to determine the lowest and best Bidder on the basis of the sum of the Base Bid and the Alternates accepted, together with considerations of responsibility and compliance.

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ARTICLE 6 POST BID INFORMATION

6.1 CONTRACTOR'S QUALIFICATION STATEMENT

6.1.1 Bidders to whom award of a Contract is under consideration may be required to submit to the Owner, upon request, Contractor's Qualification Statement, unless such a Statement has been previously required and submitted as a prerequisite to the issuance of Bidding Documents.

6.2 SUBMITTALS

6.2.1 The bidder shall, within seven days of notification of selection for the award of a Contract for the Work, submit the following information to the Architect/Owner:

- .1 a designation of the Work to be performed by the Bidder with his own forces;
- .2 the names of the suppliers of items, systems, materials and equipment proposed for the Work;
- .3 A list of names of the Subcontractors or other persons or entities (including those who are to furnish materials or equipment fabricated to a special design) proposed for the principal portions of the Work.

6.2.2 The Bidder will be required to establish to the satisfaction of the Architect and the Owner the reliability and responsibility of the persons or entities proposed to furnish and perform the Work described in the Bidding Documents.

6.2.3 Prior to the award of the Contract, the Architect/Owner will notify the Bidder in writing if either the Owner or the Architect, after due investigation, has reasonable objection to any such proposed person or entity. If the Owner or Architect has reasonable objection to any such proposed person or entity, the Bidder may, at his option, (1) withdraw his Bid, or (2) submit an acceptable substitute person or entity with an adjustment in his bid price to cover the difference in cost occasioned by such substitution. The Owner may, at his discretion, accept the adjusted bid price or he may disqualify the Bidder. In the event of either withdrawal or disqualification under this Subparagraph, bid security will not be forfeited, notwithstanding the provisions of Paragraph 4.5.1.

6.2.4 Persons and entities proposed by the Bidder and to whom the Owner has, and the Architect have made no reasonable objection under the provisions of Subparagraph 6.2.3 must be used on the Work for which they were proposed and shall not be changed except with the written consent of the Owner and the Architect.

ARTICLE 7 FAITHFUL PERFORMANCE AND LABOR AND MATERIAL PAYMENT BOND

7.1 BOND REQUIREMENTS

7.1.1 Prior to execution of the Contract, the Bidder shall furnish bonds covering the faithful performance of the Contract and the payment of all obligations arising thereunder in such form and amount as the Owner may prescribe. Bonds may be secured through the Bidder's usual sources from a company

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licensed to do business in Washington State and excellently rated. The cost of such bonds shall be included in the Bid.

7.2 TIME OF DELIVERY AND FORM OF BONDS

7.2.1 The bidder shall deliver the required bonds to the Owner not later than the date of execution of the Contract, or if the Work is to be commenced prior thereto in response to a letter of intent, the Bidder shall, prior to commencement of the Work, submit evidence satisfactory to the Owner that such bonds will be furnished.

7.2.2 The bonds shall be written on Faithful Performance Bond and Labor and Material Payment Bond forms provided by the Owner.

7.2.3 The Bidder shall require the attorney-in-fact who executes the required bonds on behalf of the surety to affix thereto a certified and current copy of his power of attorney.

ARTICLE 8 AGREEMENT BETWEEN OWNER AND CONTRACTOR

8.1 FORM TO BE USED

8.1.1 Unless otherwise required in the Bidding Documents, the Agreement for the Work will be written on the attached "Contract for Construction Services".

8.2 EXECUTION OF AGREEMENT

8.2.1 A Bidder whose proposal is accepted shall sign the written Agreement between Owner and Contractor within ten (10) days from the date of mailing of a Notice from Owner to Bidder of acceptance of his proposal. Failure to so execute the Agreement shall result in forfeiture of the Bidder's bond or certified check.

ARTICLE 9 SUPPLEMENTARY INSTRUCTIONS

9.1 PROJECT REFERENCES 9.1.1 At the request of the Owner following receipt of bids, provide at least five (5) project references in the last five years. Include project name, project location, date project was completed, a contact name and telephone number.

GENERAL CONDITIONS FOR BAINBRIDGE ISLAND METROPOLITAN PARK AND RECREATION DISTRICT

PUBLIC WORKS PROJECTS

PART 1 - GENERAL PROVISIONS

1.01 DEFINITIONS

- A. "Application for Payment" means a written request submitted by Contractor to A/E for payment of Work completed in accordance with the Contract Documents and approved Schedule of Values, supported by such substantiating data as Owner or A/E may require.
- B. "Architect," "Engineer," or "A/E" means a person or entity lawfully entitled to practice architecture or engineering, representing Owner within the limits of its delegated authority.
- C. "Change Order" means a written instrument signed by Owner and Contractor stating their agreement upon all of the following: (1) a change in the Work; (2) the amount of the adjustment in the Contract Sum, if any, and (3) the extent of the adjustment in the Contract Time, if any.
- D. "Claim" means Contractor's exclusive remedy for resolving disputes with Owner regarding the terms of a Change Order or a request for equitable adjustment, as more fully set forth in part 8.
- E. "Contract Award Amount" is the sum of the Base Bid and any accepted Alternates.
- F. "Contract Documents" means the Advertisement for Bids, Instructions for Bidders, completed Form of Proposal, General Conditions, Modifications to the General Conditions, Supplemental Conditions, Public Works Contract, other Special Forms, Drawings and Specifications, and all addenda and modifications thereof.
- G. "Contract Sum" is the total amount payable by Owner to Contractor for performance of the Work in accordance with the Contract Documents, including all taxes imposed by law and properly chargeable to the Work
- H. "Contract Time" is the number of calendar days allotted in the Contract Documents for achieving Substantial Completion of the Work.
- I. "Contractor" means the person or entity who has agreed with Owner to perform the Work in accordance with the Contract Documents.
- J. "Day(s)" unless otherwise specified shall mean calendar day(s).
- K. "Drawings" are the graphic and pictorial portions of the Contract Documents showing the design, location, and dimensions of the Work, and may include plans, elevations, sections, details, schedules, and diagrams.
- L. "Final Acceptance" means the written acceptance issued to Contractor by Owner after Contractor has completed the requirements of the Contract Documents, as more fully set forth in Section 6.09 B.
- M. "Final Completion" means that the Work is fully and finally completed in accordance with the Contract Documents, as more fully set forth in Section 6.09 A.
- N. "Force Majeure" means those acts entitling Contractor to request an equitable adjustment in the Contract Time, as more fully set forth in paragraph 3.05A.
- O. "Notice" means a written notice which has been delivered in person to the individual or a member of the firm or entity or to an officer of the corporation for which it was intended or, if delivered or sent by registered or certified mail, to the last business address known to the party giving notice.
- P. "Notice to Proceed" means a notice from Owner to Contractor that defines the date on which the Contract Time begins to run.
- Q. "Owner" means the Bainbridge Island Metro Park & Recreation District or its authorized representative with the authority to enter into, administer, and/or terminate the Work in accordance with the Contract Documents and make related determinations and findings.

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- R. "Person" means a corporation, partnership, business association of any kind, trust, company, or individual.
- S. "Prior Occupancy" means Owner's use of all or parts of the Project before Substantial Completion, as more fully set forth in Section 6.08 A.
- T. "Progress Schedule" means a schedule of the Work, in a form satisfactory to Owner, as further set forth in section 3.02.
- U. "Project" means the total construction of which the Work performed in accordance with the Contract Documents may be the whole or a part and which may include construction by Owner or by separate contractors.
- V. "Project Record" means the separate set of Drawings and Specifications as further set forth in paragraph 4.02A.
- W. "Schedule of Values" means a written breakdown allocating the total Contract Sum to each principle category of Work, in such detail as requested by Owner.
- X. "Specifications" are that portion of the Contract Documents consisting of the written requirements for materials, equipment, construction systems, standards and workmanship for the Work, and performance of related services.
- Y. "Subcontract" means a contract entered into by Subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind for or in connection with the Work.
- Z. "Subcontractor" means any person, other than Contractor, who agrees to furnish or furnishes any supplies, materials, equipment, or services of any kind in connection with the Work.
- AA. "Substantial Completion" means that stage in the progress of the Work when the construction is sufficiently complete, as more fully set forth in section 6.07.
- BB. "Work" means the construction and services required by the Contract Documents, and includes, but is not limited to, labor, materials, supplies, equipment, services, permits, and the manufacture and fabrication of components, performed, furnished, or provided in accordance with the Contract Documents.

1.02 ORDER OF PRECEDENCE

- A. Any conflict or inconsistency in the Contract Documents shall be resolved by giving the documents precedence in the following order.
1. Signed Public Works Contract, including any Change Orders.
 2. Supplemental Conditions.
 3. Modifications to the General Conditions.
 4. General Conditions.
 5. Specifications--provisions in Division 1 shall take precedence over provisions of any other Division.
 6. Drawings--in case of conflict within the Drawings, large scale drawings shall take precedence over small scale drawings.
 7. Signed and Completed Bid Form.
 8. Instructions to Bidders.
 9. Advertisement for Bids.

1.03 EXECUTION AND INTENT

- A. Contractor makes the following representations to Owner:

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1. The Contract Sum is reasonable compensation for the Work and the Contract Time is adequate for the performance of the Work, as represented by the Contract Documents;
2. Contractor has carefully reviewed the Contract Documents, visited and examined the Project site, become familiar with the local conditions in which the Work is to be performed, and satisfied itself as to the nature, location, character, quality and quantity of the Work, the labor, materials, equipment, goods, supplies, work, services and other items to be furnished and all other requirements of the Contract Documents, as well as the surface and subsurface conditions and other matters that may be encountered at the Project site or affect performance of the Work or the cost or difficulty thereof;
3. Contractor is financially solvent, able to pay its debts as they mature, and possesses sufficient working capital to complete the Work and perform Contractor's obligations required by the Contract Documents; and
4. Contractor is able to furnish the plant, tools, materials, supplies, equipment and labor required to complete the Work and perform the obligations required by the Contract Documents and has sufficient experience and competence to do so.

PART 2 - INSURANCE AND BONDS

2.01 CONTRACTOR'S LIABILITY INSURANCE

The Contractor shall procure and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, their agents, representatives, employees or subcontractors.

No Limitation. Contractor's maintenance of insurance as required by the agreement shall not be construed to limit the liability of the Contractor to the coverage provided by such insurance, or otherwise limit the District's recourse to any remedy available at law or in equity.

A. Minimum Scope of Insurance

Contractor shall obtain insurance of the types described below:

1. Automobile Liability insurance covering all owned, non-owned, hired and leased vehicles. Coverage shall be written on Insurance Services Office (ISO) form CA 00 01 or a substitute form providing equivalent liability coverage. If necessary, the policy shall be endorsed to provide contractual liability coverage.
2. Commercial General Liability insurance shall be written on ISO occurrence form CG 00 01 or the equivalent and shall cover liability arising from premises, operations, independent contractors, products-completed operations, stop gap liability, personal injury and advertising injury, and liability assumed under an insured contract. The District shall be named as an additional insured under the Contractor's Commercial General Liability insurance policy with respect to the work performed for the District.
3. Workers' Compensation coverage as required by the Industrial Insurance laws of the state of Washington.

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B. Minimum Amounts of Insurance

Contractor shall maintain the following insurance limits:

1. Automobile Liability insurance with a minimum combined single limit for bodily injury and property damage of \$2,000,000 per accident.
2. Commercial General Liability insurance shall be written with limits no less than \$2,000,000 each occurrence, \$4,000,000 general aggregate and a \$4,000,000 products-completed operations aggregate limit.

C. Other Insurance Provisions

The insurance policies are to contain, or be endorsed to contain, the following provisions for Automobile Liability and Commercial General Liability insurance:

1. The Contractor's insurance coverage shall be primary insurance as respect the District. Any Insurance, self-insurance, or insurance pool coverage maintained by the District shall be excess of the Contractor's insurance and shall not contribute with it.
2. The Contractor's insurance shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the District.

D. Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best rating of not less than A:VII.

E. Verification of Coverage

Contractor shall furnish the District with original certificates and a copy of the amendatory endorsements, including but not necessarily limited to the additional insured endorsement, evidencing the insurance requirements of the Contractor before commencement of the work.

F. Subcontractors

Contractor shall ensure that each subcontractor of every tier obtain at a minimum the same insurance coverage and limits as stated herein for the Contractor. Upon request from the District, the Contractor shall provide evidence of such insurance.

2.04 PAYMENT AND PERFORMANCE BONDS

A. Payment and performance bonds for 100% of the Contract Award Amount, plus state sales tax, shall be furnished for the Work, using the Payment Bond and Performance Bond form published and available from the American Institute of Architects (AIA) – form A312. Prior to execution of a Change Order that, cumulatively with previous Change Orders, increases the Contract Award Amount by 15% or more, the Contractor shall provide either new payment and performance bonds for the revised Contract Sum, or riders to the existing payment and performance bonds increasing the amount of the bonds. The Contractor shall likewise provide additional bonds or riders when subsequent Change Orders increase the Contract Sum by 15% of more. No payment or performance bond is required if the Contract Sum is \$150,000 or less and Contractor agrees that Owner may, in lieu of the bond, retain a percentage of the Contract Sum for the period as allowed by RCW 39.08.010.

2.05 ALTERNATIVE SECURITY

A. Contractor shall promptly furnish payment and performance bonds from an alternative surety as required to protect Owner and persons supplying labor or materials required by the Contract Documents if:

1. Owner has a reasonable objection to the surety; or
2. Any surety fails to furnish reports on its financial condition if requested by Owner.

2.06 BUILDER'S RISK

A. Contractor shall purchase and maintain property insurance in the amount of the Contract Sum including all Change Orders for the Work on a replacement cost basis until Substantial Completion. The insurance shall cover the interest of Owner, Contractor, and any Subcontractors, as their interests may appear.

B. Contractor property insurance shall be placed on an "all risk" basis and insure against the perils of fire and extended coverage and physical loss or damage including theft, vandalism, malicious mischief, collapse, false work, temporary buildings, debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for A/E's services and expenses required as a result of an insured loss.

C. Owner and Contractor waive all subrogation rights against each other, any Subcontractors, A/E, A/E's subconsultants, separate contractors described in section 5.20, if any, and any of their subcontractors, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this section or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by Owner as fiduciary. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

PART 3 - TIME AND SCHEDULE

3.01 PROGRESS AND COMPLETION

A. Contractor shall diligently prosecute the Work, with adequate forces, achieve Substantial Completion within the Contract Time, and achieve Final Completion within a reasonable period thereafter.

3.02 CONSTRUCTION SCHEDULE

A. Unless otherwise provided in Division 1, Contractor shall, within 14 days after issuance of the Notice to Proceed, submit a preliminary Progress Schedule. The Progress Schedule shall show the sequence in which Contractor proposes to perform the Work, and the dates on which Contractor plans to start and finish major portions of the Work, including dates for shop drawings and other submittals, and for acquiring materials and equipment.

B. Unless otherwise provided in Division 1, the Progress Schedule shall be in the form of a bar chart, or a critical path method analysis, as specified by Owner. The preliminary Progress Schedule may be general, showing the major portions of the Work, with a more detailed Progress Schedule submitted as directed by Owner.

C. Owner shall return comments on the preliminary Progress Schedule to Contractor within 14 days of receipt. Review by Owner of Contractor's schedule does not constitute an approval or acceptance of Contractor's construction means, methods, or sequencing, or its ability to complete the Work within the Contract Time. Contractor shall revise and resubmit its schedule, as necessary. Owner may withhold a portion of progress payments until a Progress Schedule has been submitted which meets the requirements of this section.

D. Contractor shall utilize and comply with the Progress Schedule. On a monthly basis, or as otherwise directed by Owner, Contractor shall submit an updated Progress Schedule at its own expense to Owner indicating actual progress. If, in the opinion of Owner, Contractor is not in conformance with the Progress Schedule for reasons other than acts of Force Majeure as identified in section 3.05, Contractor shall take such steps as are necessary to bring the actual completion dates of its work activities into conformance with the Progress Schedule, or revise the Progress Schedule to reconcile with the actual progress of the Work.

E. Contractor shall promptly notify Owner in writing of any actual or anticipated event which is delaying or could delay achievement of any milestone or performance of any critical path activity of the Work. Contractor shall indicate the expected duration of the delay, the anticipated effect of the delay on the Progress Schedule, and the action being or to be taken to correct the problem. Provision of such notice does not relieve Contractor of its obligation to complete the Work within the Contract Time.

3.03 OWNER'S RIGHT TO SUSPEND THE WORK FOR CONVENIENCE

A. Owner may, at its sole discretion, order Contractor, in writing, to suspend all or any part of the Work for up to 90 days, or for such longer period as mutually agreed.

B. Upon receipt of a written notice suspending the Work, Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of cost of performance directly attributable to such suspension. Within a period up to 90 days after the notice is delivered to Contractor, or within any extension of that period to which the parties shall have agreed, Owner shall either:

1. Cancel the written notice suspending the Work; or
2. Terminate the Work covered by the notice as provided in the termination provisions of part 9.

C. If a written notice suspending the Work is cancelled or the period of the notice or any extension thereof expires, Contractor shall resume Work.

D. Contractor shall be entitled to an equitable adjustment in the Contract Time, or Contract Sum, or both, for increases in the time or cost of performance directly attributable to such suspension, provided Contractor complies with all requirements set forth in part 7.

3.04 OWNER'S RIGHT TO STOP THE WORK FOR CAUSE

A. If Contractor fails or refuses to perform its obligations in accordance with the Contract Documents, Owner may order Contractor, in writing, to stop the Work, or any portion thereof, until satisfactory corrective action has been taken.

B. Contractor shall not be entitled to an equitable adjustment in the Contract Time or Contract Sum for any increased cost or time of performance attributable to Contractor's failure or refusal to perform or from any reasonable remedial action taken by Owner based upon such failure.

3.05 DELAY

A. Any delay in or failure of performance by Owner or Contractor, other than the payment of money, shall not constitute a default hereunder if and to the extent the cause for such delay or failure of performance was unforeseeable and beyond the control of the party ("Force Majeure"). Acts of Force Majeure include, but are not limited to:

1. Acts of God or the public enemy;
2. Acts or omissions of any government entity;
3. Fire or any other casualty for which Contractor is not responsible;
4. Quarantine or epidemic;
5. Strike or defensive lockout; 6
6. Unusually severe weather conditions which could not have been reasonably anticipated; and
7. Unusual delay in receipt of supplies or products which were ordered and expedited and for which no substitute reasonably acceptable to Owner was available.

B. Contractor shall be entitled to an equitable adjustment in the Contract Time for changes in the time of performance directly attributable to an act of Force Majeure, provided it makes a request for equitable adjustment according to section 7.03. Contractor shall not be entitled to an adjustment in the Contract Sum resulting from an act of Force Majeure.

C. Contractor shall be entitled to an equitable adjustment in Contract Time, and may be entitled to an equitable adjustment in Contract Sum, if the cost or time of Contractor's performance is changed due to the fault or negligence of Owner, provided the Contractor makes a request according to sections 7.02 and 7.03.

D. Contractor shall not be entitled to an adjustment in Contract Time or in the Contract Sum for any delay or failure of performance to the extent such delay or failure was caused by Contractor or anyone for whose acts Contractor is responsible.

E. To the extent any delay or failure of performance was concurrently caused by the Owner and Contractor, Contractor shall be entitled to an adjustment in the Contract Time for that portion of the delay or failure of performance that was concurrently caused, provided it makes a

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request for equitable adjustment according to section 7.03, but shall not be entitled to an adjustment in Contract Sum.

F. Contractor shall make all reasonable efforts to prevent and mitigate the effects of any delay, whether occasioned by an act of Force Majeure or otherwise.

3.06 NOTICE TO OWNER OF LABOR DISPUTES

A. If Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay timely performance in accordance with the Contract Documents, Contractor shall immediately give notice, including all relevant information, to Owner.

B. Contractor agrees to insert a provision in its Subcontracts and to require insertion in all sub-subcontracts, that in the event timely performance of any such contract is delayed or threatened by delay by any actual or potential labor dispute, the Subcontractor or Sub-subcontractor shall immediately notify the next higher tier Subcontractor or Contractor, as the case may be, of all relevant information concerning the dispute.

3.07 DAMAGES FOR FAILURE TO ACHIEVE TIMELY COMPLETION

A. Liquidated Damages

1. Timely performance and completion of the Work is essential to Owner and time limits stated in the Contract Documents are of the essence. Owner will incur serious and substantial damages if Substantial Completion of the Work does not occur within the Contract Time. However, it would be difficult if not impossible to determine the exact amount of such damages. Therefore, liquidated damages will be set at \$500 per day. Consequently, provisions for liquidated damages are included in the Contract Documents.

2. The liquidated damage amounts set forth in the Contract Documents will be assessed not as a penalty, but as liquidated damages for breach of the Contract Documents. This amount is fixed and agreed upon by and between the Contractor and Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain. This amount shall be construed as the actual amount of damages sustained by the Owner, and may be retained by the Owner and deducted from periodic payments to the Contractor.

3. Assessment of liquidated damages shall not release Contractor from any further obligations or liabilities pursuant to the Contract Documents.

PART 4 - SPECIFICATIONS, DRAWINGS, AND OTHER DOCUMENTS

4.01 DISCREPANCIES AND CONTRACT DOCUMENT REVIEW

A. The intent of the Specifications and Drawings is to describe a complete Project to be constructed in accordance with the Contract Documents. Contractor shall furnish all labor, materials, equipment, tools, transportation, permits, and supplies, and perform the Work required in accordance with the Drawings, Specifications, and other provisions of the Contract Documents.

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B. The Contract Documents are complementary. What is required by one part of the Contract Documents shall be binding as if required by all. Anything mentioned in the Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both.

C. Contractor shall carefully study and compare the Contract Documents with each other and with information furnished by Owner. If, during the performance of the Work, Contractor finds a conflict, error, inconsistency, or omission in the Contract Documents, it shall promptly and before proceeding with the Work affected thereby, report such conflict, error, inconsistency, or omission to A/E in writing.

D. Contractor shall do no Work without applicable Drawings, Specifications, or written modifications, or Shop Drawings where required, unless instructed to do so in writing by Owner. If Contractor performs any construction activity, and it knows or reasonably should have known that any of the Contract Documents contain a conflict, error, inconsistency, or omission, Contractor shall be responsible for the performance and shall bear the cost for its correction.

E. Contractor shall provide any work or materials the provision of which is clearly implied and is within the scope of the Contract Documents even if the Contract Documents do not mention them specifically.

F. Questions regarding interpretation of the requirements of the Contract Documents shall be referred to the A/E.

4.02 PROJECT RECORD

A. Contractor shall legibly mark in ink on a separate set of the Drawings and Specifications all actual construction, including depths of foundations, horizontal and vertical locations of internal and underground utilities and appurtenances referenced to permanent visible and accessible surface improvements, field changes of dimensions and details, actual suppliers, manufacturers and trade names, models of installed equipment, and Change Order Proposals (COP). This separate set of Drawings and Specifications shall be the "Project Record."

B. The Project Record shall be maintained on the project site throughout the construction and shall be clearly labeled "PROJECT RECORD". The Project Record shall be updated at least weekly noting all changes and shall be available to Owner at all times.

C. Contractor shall submit the completed and finalized Project Record to A/E prior to Final Acceptance.

4.03 SHOP DRAWINGS

A. "Shop Drawings" means documents and other information required to be submitted to A/E by Contractor pursuant to the Contract Documents, showing in detail: the proposed fabrication and assembly of structural elements; and the installation (i.e. form, fit, and attachment details) of materials and equipment. Shop Drawings include, but are not limited to, drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, samples, and similar materials furnished by Contractor to explain in detail specific portions of the Work required by the Contract Documents. For materials and equipment to be incorporated

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into the Work, Contractor submittal shall include the name of the manufacturer, the model number, and other information concerning the performance, capacity, nature, and rating of the item. When directed, Contractor shall submit all samples at its own expense. Owner may duplicate, use, and disclose Shop Drawings provided in accordance with the Contract Documents.

B. Contractor shall coordinate all Shop Drawings, and review them for accuracy, completeness, and compliance with the Contract Documents and shall indicate its approval thereon as evidence of such coordination and review. Where required by law, Shop Drawings shall be stamped by an appropriate professional licensed by the state of Washington. Shop Drawings submitted to A/E without evidence of Contractor's approval shall be returned for resubmission. Contractor shall review, approve, and submit Shop Drawings with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of Owner or separate contractors. Contractor's submittal schedule shall allow a reasonable time for A/E review. A/E will review, approve, or take other appropriate action on the Shop Drawings. Contractor shall perform no portion of the Work requiring submittal and review of Shop Drawings until the respective submittal has been reviewed and the A/E has approved or taken other appropriate action. Owner and A/E shall respond to Shop Drawing submittals with reasonable promptness. Any Work by Contractor shall be in accordance with reviewed Shop Drawings. Submittals made by Contractor which are not required by the Contract Documents may be returned without action.

C. Approval, or other appropriate action with regard to Shop Drawings, by Owner or A/E shall not relieve Contractor of responsibility for any errors or omissions in such Shop Drawings, nor from responsibility for compliance with the requirements of the Contract Documents. Unless specified in the Contract Documents, review by Owner or A/E shall not constitute an approval of the safety precautions employed by Contractor during construction, or constitute an approval of Contractor's means or methods of construction. If Contractor fails to obtain approval before installation and the item or work is subsequently rejected, Contractor shall be responsible for all costs of correction.

D. If Shop Drawings show variations from the requirements of the Contract Documents, Contractor shall describe such variations in writing, separate from the Shop Drawings, at the time it submits the Shop Drawings containing such variations. If A/E approves any such variation, an appropriate Change Order will be issued. If the variation is minor and does not involve an adjustment in the Contract Sum or Contract Time, a Change Order need not be issued; however, the modification shall be recorded upon the Project Record.

E. Unless otherwise provided in Division I, Contractor shall submit to A/E for approval 5 copies of all Shop Drawings. Unless otherwise indicated, 3 sets of all Shop Drawings shall be retained by A/E and 2 sets shall be returned to Contractor.

4.04 ORGANIZATION OF SPECIFICATIONS

A. Specifications are prepared in sections which conform generally with trade practices. These sections are for Owner and Contractor convenience and shall not control Contractor in dividing

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the Work among the Subcontractors or in establishing the extent of the Work to be performed by any trade.

4.05 OWNERSHIP AND USE OF DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS

A. The Drawings, Specifications, and other documents prepared by A/E are instruments of A/E's service through which the Work to be executed by Contractor is described. Neither Contractor nor any Subcontractor shall own or claim a copyright in the Drawings, Specifications, and other documents prepared by A/E, and A/E shall be deemed the author of them and will, along with any rights of Owner, retain all common law, statutory, and other reserved rights, in addition to the copyright. All copies of these documents, except Contractor's set, shall be returned or suitably accounted for to A/E, on request, upon completion of the Work.

B. The Drawings, Specifications, and other documents prepared by the A/E, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner and A/E. Contractor and Subcontractors are granted a limited license to use and reproduce applicable portions of the Drawings, Specifications, and other documents prepared by A/E appropriate to and for use in the execution of their Work.

C. Contractor and all Subcontractors grant a non-exclusive license to Owner, without additional cost or royalty, to use for its own purposes (including reproduction) all Shop Drawings, together with the information and diagrams contained therein, prepared by Contractor or any Subcontractor. In providing Shop Drawings, Contractor and all Subcontractors warrant that they have authority to grant to Owner a license to use the Shop Drawings, and that such license is not in violation of any copyright or other intellectual property right. Contractor agrees to defend and indemnify Owner pursuant to the indemnity provisions in Sections 5.03 and 5.22 from any violations of copyright or other intellectual property rights arising out of Owner's use of the Shop Drawings hereunder, or to secure for Owner, at Contractor's own cost, licenses in conformity with this section.

D. The Shop Drawings and other submittals prepared by Contractor, Subcontractors of any tier, or its or their equipment or material suppliers, and copies thereof furnished to Contractor, are for use solely with respect to this Project. They are not to be used by Contractor or any Subcontractor of any tier, or material or equipment supplier, on other projects or for additions to this Project outside the scope of the Work without the specific written consent of Owner. The Contractor, Subcontractors of any tier, and material or equipment suppliers are granted a limited license to use and reproduce applicable portions of the Shop Drawings and other submittals appropriate to and for use in the execution of their Work under the Contract Documents.

PART 5 - PERFORMANCE

5.01 CONTRACTOR CONTROL AND SUPERVISION

A. Contractor shall supervise and direct the Work, using its best skill and attention, and shall perform the Work in a skillful manner. Contractor shall be solely responsible for and have

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control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work, unless the Contract Documents give other specific instructions concerning these matters. Contractor shall disclose its means and methods of construction when requested by Owner.

B. Performance of the Work shall be directly supervised by a competent superintendent who has authority to act for Contractor. The superintendent must be satisfactory to Owner and shall not be changed without the prior written consent of Owner. Owner may require Contractor to remove the superintendent from the Work or Project site, if Owner reasonable deems the superintendent incompetent, careless, or otherwise objectionable, provided Owner has first notified Contractor in writing and allowed a reasonable period for transition.

C. Contractor shall be responsible to Owner for acts and omissions of Contractor, Subcontractors, and their employees and agents.

D. Contractor shall enforce strict discipline and good order among Contractor's employees and other persons performing the Work. Contractor shall not permit employment of persons not skilled in tasks assigned to them. Contractor's employees shall at all times conduct business in a manner which assures fair, equal, and nondiscriminatory treatment of all persons. Owner may, by written notice, request Contractor to remove from the Work or Project site any employee Owner reasonably deems incompetent, careless, or otherwise objectionable.

E. Contractor shall keep on the Project site a copy of the Drawings, Specifications, addenda, reviewed Shop Drawings, and permits and permit drawings.

F. Contractor shall ensure that its owner(s) and employees, and those of its Subcontractors, comply with the Ethics in Public Service Act RCW 42.52, which, among other things, prohibits state employees from having an economic interest in any public works contract that was made by, or supervised by, that employee. Contractor shall remove, at its sole cost and expense, any of its, or its Subcontractors', employees, if they are in violation of this act.

5.02 PERMITS, FEES, AND NOTICES

A. Unless otherwise provided in the Contract Documents, Owner shall pay for and obtain all permits, and licenses required for proper execution and completion of the Work. Prior to Final Acceptance, the approved, signed permits shall be delivered to Owner.

Contractor is responsible for requesting all inspections required for proper execution and completion of the Work.

B. If allowances for permits or utility fees are called for in the Contract Documents and set forth in Contractor's bid, and the actual costs of those permits or fees differ from the allowances in the Contract Documents, the difference shall be adjusted by Change Order.

C. Contractor shall comply with and give notices required by all federal, state, and local laws, ordinances, rules, regulations, and lawful orders of public authorities applicable to performance of the Work.

5.03 PATENTS AND ROYALTIES

A. Contractor is responsible for, and shall pay, all royalties and license fees. Contractor shall defend, indemnify, and hold Owner harmless from any costs, expenses, and liabilities arising out of the infringement by Contractor of any patent, copyright, or other intellectual property right used in the Work; however, provided that Contractor gives prompt notice, Contractor shall not be responsible for such defense or indemnity when a particular design, process, or product of a particular manufacturer or manufacturers is required by the Contract Documents. If Contractor has reason to believe that use of the required design, process, or product constitutes an infringement of a patent or copyright, it shall promptly notify Owner of such potential infringement.

5.04 PREVAILING WAGES

A. Contractor shall pay the prevailing rate of wages to all workers, laborers, or mechanics employed in the performance of any part of the Work in accordance with RCW 39.12 and the rules and regulations of the Department of Labor and Industries. The schedule of prevailing wage rates for the locality or localities of the Work, is determined by the Industrial Statistician of the Department of Labor and Industries. It is the Contractor's responsibility to verify the applicable prevailing wage rate.

B. Before payment is made by Owner to Contractor for any work performed by Contractor and subcontractors whose work is included in the application for payment, Contractor shall submit, or shall have previously submitted to Owner for the Project, a Statement of Intent to Pay Prevailing Wages, approved by the Department of Labor & Industries, certifying the rate of hourly wages paid and to be paid each classification of laborers, workers, or mechanics employed upon the Work by Contractor and its subcontractors. Such rates of hourly wages shall not be less than the prevailing wage rate for job site, Bainbridge Island, Kitsap County, Washington.

C. Prior to release of retainage, Contractor shall submit to Owner an Affidavit of Wages Paid, approved by the Department of Labor & Industries, for Contractor and every subcontractor, or any tier, that performed work on the Project.

D. Disputes regarding prevailing wage rates shall be referred for arbitration to the Director of the Department of Labor and Industries. The arbitration decision shall be final and conclusive and binding on all parties involved in the dispute as provided for by RCW 39.12.060.

E. Each Application for Payment submitted by Contractor shall state that prevailing wages have been paid in accordance with the pre-filed statement(s) of intent, as approved. Copies of the approved intent statement(s) shall be posted on the job site with the address and telephone number of the Industrial Statistician of the Department of Labor and Industries where a complaint or inquiry concerning prevailing wages may be made.

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F. In compliance with chapter 296-127 WAC, Contractor shall pay to the Department of Labor and Industries the currently established fee(s) for each statement of intent and/or affidavit of wages paid submitted to the Department of Labor and Industries for certification.

G. Consistent with WAC 296-127-320, the Contractor and any subcontractor shall submit a certified copy of payroll records if requested.

5.05 HOURS OF LABOR

A. Contractor shall comply with all applicable provisions of RCW 49.28 and they are incorporated herein by reference. Pursuant to that statute, no laborer, worker, or mechanic employed by Contractor, any Subcontractor, or any other person performing or contracting to do the whole or any part of the Work, shall be permitted or required to work more than eight hours in any one calendar day, provided, that in cases of extraordinary emergency, such as danger to life or property, the hours of work may be extended, but in such cases the rate of pay for time employed in excess of eight hours of each calendar day shall be not less than one and one-half times the rate allowed for this same amount of time during eight hours' service.

B. Notwithstanding the preceding paragraph, RCW 49.28 permits a contractor or subcontractor in any public works contract subject to those provisions, to enter into an agreement with its employees in which the employees work up to ten hours in a calendar day. No such agreement may provide that the employees work ten-hour days for more than four calendar days a week. Any such agreement is subject to approval by the employees. The overtime provisions of RCW 49.28 shall not apply to the hours, up to forty hours per week, worked pursuant to any such agreement.

5.06 NONDISCRIMINATION

A. Discrimination in all phases of employment is prohibited by, among other laws and regulations, Title VII of the Civil Rights Act of 1964, the Vietnam Era Veterans Readjustment Act of 1974, sections 503 and 504 of the Vocational Rehabilitation Act of 1973, the Equal Employment Act of 1972, the Age Discrimination Act of 1967, the Americans with Disabilities Act of 1990, the Civil Rights Act of 1991, Presidential Executive Order 11246, Executive Order 11375, the Washington State Law Against Discrimination, RCW 49.60, and Gubernatorial Executive Order 85-09. These laws and regulations establish minimum requirements for affirmative action and fair employment practices which Contractor must meet.

B. During performance of the Work:

1. Contractor shall not discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, age, marital status, or the presence of any physical, sensory, or mental disability, Vietnam era veteran status, or disabled veteran status, nor commit any other unfair practices as defined in RCW 49.60.
2. Contractor shall, in all solicitations or advertisements for employees placed by or for it, state that all qualified applicants will be considered for employment, without regard to race, creed, color, national origin, sex, age, marital status, or the presence of any physical, sensory, or mental disability.

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3. Contractor shall send to each labor union, employment agency, or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the labor union, employment agency, or workers' representative of Contractor's obligations according to the Contract Documents and RCW 49.60.

4. Contractor shall permit access to its books, records, and accounts, and to its premises by Owner, and by the Washington State Human Rights Commission, for the purpose of investigation to ascertain compliance with this section of the Contract Documents.

5. Contractor shall include the provisions of this section in every Subcontract.

5.07 SAFETY PRECAUTIONS

A. Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work.

B. In carrying out its responsibilities according to the Contract Documents, Contractor shall protect the lives and health of employees performing the Work and other persons who may be affected by the Work; prevent damage to materials, supplies, and equipment whether on site or stored off-site; and prevent damage to other property at the site or adjacent thereto. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss; shall erect and maintain all necessary safeguards for such safety and protection; and shall notify owners of adjacent property and utilities when prosecution of the Work may affect them.

C. Contractor shall maintain an accurate record of exposure data on all incidents relating to the Work resulting in death, traumatic injury, occupational disease, or damage to property, materials, supplies, or equipment. Contractor shall immediately report any such incident to Owner. Owner shall, at all times, have a right of access to all records of exposure.

D. Contractor shall provide all persons working on the Project site with information and training on hazardous chemicals in their work at the time of their initial assignment, and whenever a new hazard is introduced into their work area.

1. Information. At a minimum, Contractor shall inform persons working on the Project site of:

a. The requirements of chapter 296-62 WAC, General Occupational Health Standards;

b. Any operations in their work area where hazardous chemicals are present; and

c. The location and availability of written hazard communication programs, including the required list(s) of hazardous chemicals and material safety data sheets required by chapter 296-62 WAC.

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2. Training. At a minimum, Contractor shall provide training for persons working on the Project site which includes:

- a. Methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);
- b. The physical and health hazards of the chemicals in the work area;
- c. The measures such persons can take to protect themselves from these hazards, including specific procedures Contractor, or its Subcontractors, or others have implemented to protect those on the Project site from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used; and
- d. The details of the hazard communications program developed by Contractor, or its Subcontractors, including an explanation of the labeling system and the material safety data sheet, and how employees can obtain and use the appropriate hazard information.

E. Contractor's responsibility for hazardous, toxic, or harmful substances shall include the following duties:

1. Contractor shall not keep, use, dispose, transport, generate, or sell on or about the Project site, any substances now or hereafter designated as, or which are subject to regulation as, hazardous, toxic, dangerous, or harmful by any federal, state or local law, regulation, statute or ordinance (hereinafter collectively referred to as "hazardous substances", in violation of any such law, regulation, statute, or ordinance, but in no case shall any such hazardous substance be stored more than 90 days on the Project site.
2. Contractor shall promptly notify Owner of all spills or releases of any hazardous substances which are otherwise required to be reported to any regulatory agency and pay the cost of cleanup. Contractor shall promptly notify Owner of all failures to comply with any federal, state, or local law, regulation, or ordinance; all inspections of the Project site by any regulatory entity concerning the same; all regulatory orders or fines; and all responses or interim cleanup actions taken by or proposed to be taken by any government entity or private party on the Project site.

F. All Work shall be performed with due regard for the safety of the public. Contractor shall perform the Work so as to cause a minimum of interruption of vehicular traffic or inconvenience to pedestrians. All arrangements to care for such traffic shall be Contractor's responsibilities. All expenses involved in the maintenance of traffic by way of detours shall be borne by Contractor.

G. In an emergency affecting the safety of life or the Work or of adjoining property, Contractor is permitted to act, at its discretion, to prevent such threatened loss or injury, and Contractor shall so act if so authorized or instructed.

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H. Nothing provided in this section shall be construed as imposing any duty upon Owner or A/E with regard to, or as constituting any express or implied assumption of control or responsibility over, Project site safety, or over any other safety conditions relating to employees or agents of Contractor or any of its Subcontractors, or the public.

5.08 OPERATIONS, MATERIAL HANDLING, AND STORAGE AREAS

A. Contractor shall confine all operations, including storage of materials, to Owner-approved areas.

B. Temporary buildings (e.g., storage sheds, shops, offices) and utilities may be provided by Contractor only with the consent of Owner and without expense to Owner. The temporary buildings and utilities shall remain the property of Contractor and shall be removed by Contractor at its expense upon completion of the Work.

C. Contractor shall use only established roadways or temporary roadways authorized by Owner. When materials are transported in prosecuting the Work, vehicles shall not be loaded beyond the loading capacity recommended by the manufacturer of the vehicle or prescribed by federal, state, or local law or regulation.

D. Ownership and control of all materials or facility components to be demolished or removed from the Project site by Contractor shall immediately vest in Contractor upon severance of the component from the facility or severance of the material from the Project site. Contractor shall be responsible for compliance with all laws governing the storage and ultimate disposal. Contractor shall provide Owner with a copy of all manifests and receipts evidencing proper disposal when required by Owner or applicable law.

E. Contractor shall be responsible for the proper care and protection of its materials and equipment delivered to the Project site. Materials and equipment may be stored on the premises subject to approval of Owner. When Contractor uses any portion of the Project site as a shop, Contractor shall be responsible for any repairs, patching, or cleaning arising from such use.

F. Contractor shall protect and be responsible for any damage or loss to the Work, or to the materials or equipment until the date of Substantial Completion, and shall repair or replace without cost to Owner any damage or loss that may occur, except damages or loss caused by the acts or omissions of Owner. Contractor shall also protect and be responsible for any damage or loss to the Work, or to the materials or equipment, after the date of Substantial Completion, and shall repair or replace without cost to Owner any such damage or loss that might occur, to the extent such damages or loss are caused by the acts or omissions of Contractor, or any Subcontractor.

5.09 PRIOR NOTICE OF EXCAVATION

A. "Excavation" means an operation in which earth, rock, or other material on or below the ground is moved or otherwise displaced by any means, except the tilling of soil less than 12 inches in depth for agricultural purposes, or road ditch maintenance that does not change the original road grade or ditch flow line. Before commencing any excavation, Contractor shall

provide notice of the scheduled commencement of excavation to all owners of underground facilities or utilities, through locator services.

5.10 UNFORESEEN PHYSICAL CONDITIONS

A. If Contractor encounters conditions at the site which are subsurface or otherwise concealed physical conditions which differ materially from those indicated in the Contract Documents, or unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, then Contractor shall give written notice to Owner promptly and in no event later than 7 days after the first observance of the conditions. Conditions shall not be disturbed prior to such notice.

B. If such conditions differ materially and cause a change in Contractor's cost of, or time required for, performance of any part of the Work, the Contractor may be entitled to an equitable adjustment in the Contract Time or Contract Sum, or both, provided it makes a request therefor as provided in part 7.

5.11 PROTECTION OF EXISTING STRUCTURES, EQUIPMENT, VEGETATION, UTILITIES, AND IMPROVEMENTS

A. Contractor shall protect from damage all existing structures, equipment, improvements, utilities, and vegetation: at or near the Project site; and on adjacent property of a third party, the locations of which are made known to or should be known by Contractor. Contractor shall repair any damage, including that to the property of a third party, resulting from failure to comply with the requirements of the Contract Documents or failure to exercise reasonable care in performing the Work. If Contractor fails or refuses to repair the damage promptly, Owner may have the necessary work performed and charge the cost to Contractor.

B. Contractor shall only remove trees when specifically authorized to do so, and shall protect vegetation that will remain in place.

5.12 LAYOUT OF WORK

A. Contractor shall plan and lay out the Work in advance of operations so as to coordinate all work without delay or revision.

B. Contractor shall lay out the Work from Owner-established baselines and bench marks indicated on the Drawings, and shall be responsible for all field measurements in connection with the layout. Contractor shall furnish, at its own expense, all stakes, templates, platforms, equipment, tools, materials, and labor required to lay out any part of the Work. Contractor shall be responsible for executing the Work to the lines and grades that may be established. Contractor shall be responsible for maintaining or restoring all stakes and other marks established.

5.13 MATERIAL AND EQUIPMENT

A. All equipment, material, and articles incorporated into the Work shall be new and of the most suitable grade for the purpose intended, unless otherwise specifically provided in the Contract

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Documents. References in the Specifications to equipment, material, articles, or patented processes by trade name, make, or catalog number, shall be regarded as establishing a standard quality and shall not be construed as limiting competition. Contractor may, at its option, use any equipment, material, article, or process that, in the judgment of A/E, is equal to that named in the specifications, unless otherwise specifically provided in the Contract Documents.

B. Contractor shall do all cutting, fitting, or patching that may be required to make its several parts fit together properly, or receive or be received by work of others set forth in, or reasonably implied by, the Contract Documents. Contractor shall not endanger any work by cutting, excavating, or otherwise altering the Work and shall not cut or alter the work of any other contractor unless approved in advance by Owner.

C. Should any of the Work be found defective, or in any way not in accordance with the Contract Documents, this work, in whatever stage of completion, may be rejected by Owner.

5.14 AVAILABILITY AND USE OF UTILITY SERVICES

A. Owner shall make all reasonable utilities available to Contractor from existing outlets and supplies, as specified in the Contract Documents. Unless otherwise provided in the Contract Documents, the utility service consumed shall be charged to or paid for by Contractor at prevailing rates charged to Owner or, where the utility is produced by Owner, at reasonable rates determined by Owner. Contractor will carefully conserve any utilities furnished.

B. Contractor shall, at its expense and in a skillful manner satisfactory to Owner, install and maintain all necessary temporary connections and distribution lines, together with appropriate protective devices, and all meters required to measure the amount of each utility used for the purpose of determining charges. Prior to the date of Final Acceptance, Contractor shall remove all temporary connections, distribution lines, meters, and associated equipment and materials.

5.15 TESTS AND INSPECTION

A. Contractor shall maintain an adequate testing and inspection program and perform such tests and inspections as are necessary or required to ensure that the Work conforms to the requirements of the Contract Documents. Contractor shall be responsible for inspection and quality surveillance of all its Work and all Work performed by any Subcontractor. Unless otherwise provided, Contractor shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to Owner, or with the appropriate public authority, and shall bear all related costs of tests, inspections, and approvals. Contractor shall give Owner timely notice of when and where tests and inspections are to be made. Contractor shall maintain complete inspection records and make them available to Owner.

B. Owner may, at any reasonable time, conduct such inspections and tests as it deems necessary to ensure that the Work is in accordance with the Contract Documents. Owner shall promptly notify Contractor if an inspection or test reveals that the Work is not in accordance with the Contract Documents. Unless the subject items are expressly accepted by Owner, such Owner inspection and tests are for the sole benefit of Owner and do not:

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1. Constitute or imply acceptance;
2. Relieve Contractor of responsibility for providing adequate quality control measures;
3. Relieve Contractor of responsibility for risk of loss or damage to the Work, materials, or equipment;
4. Relieve Contractor of its responsibility to comply with the requirements of the Contract Documents; or
5. Impair Owner's right to reject defective or nonconforming items, or to avail itself of any other remedy to which it may be entitled.

C. Neither observations by an inspector retained by Owner, the presence or absence of such inspector on the site, nor inspections, tests, or approvals by others, shall relieve Contractor from any requirement of the Contract Documents, nor is any such inspector authorized to change any term or condition of the Contract Documents.

D. Contractor shall promptly furnish, without additional charge, all facilities, labor, material and equipment reasonably needed for performing such safe and convenient inspections and tests as may be required by Owner. Owner may charge Contractor any additional cost of inspection or testing when Work is not ready at the time specified by Contractor for inspection or testing, or when prior rejection makes reinspection or retest necessary. Owner shall perform its inspections and tests in a manner that will cause no undue delay in the Work.

5.16 CORRECTION OF NONCONFORMING WORK

A. If a portion of the Work is covered contrary to the requirements in the Contract Documents, it must, if required in writing by Owner, be uncovered for Owner's observation and be replaced at the Contractor's expense and without change in the Contract Time.

B. If, at any time prior to Final Completion, Owner desires to examine the Work, or any portion of it, which has been covered, Owner may request to see such Work and it shall be uncovered by Contractor. If such Work is in accordance with the Contract Documents, the Contractor shall be entitled to an adjustment in the Contract Sum for the costs of uncovering and replacement, and, if completion of the Work is thereby delayed, an adjustment in the Contract Time, provided it makes a request therefor as provided in part 7. If such Work is not in accordance with the Contract Documents, the Contractor shall pay the costs of examination and reconstruction.

C. Contractor shall promptly correct Work found by Owner not to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed, or completed. Contractor shall bear all costs of correcting such nonconforming Work, including additional testing and inspections.

D. If, within one year after the date of Substantial Completion of the Work or designated portion thereof, or within one year after the date for commencement of any system warranties established under section 6.08, or within the terms of any applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, Contractor shall correct it promptly after receipt of

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written notice from Owner to do so. Owner shall give such notice promptly after discovery of the condition. This period of one year shall be extended, with respect to portions of Work first performed after Substantial Completion, by the period of time between Substantial Completion and the actual performance of the Work. Contractor's duty to correct with respect to Work repaired or replaced shall run for one year from the date of repair or replacement. Obligations under this paragraph shall survive Final Acceptance.

E. Contractor shall remove from the Project site portions of the Work which are not in accordance with the requirements of the Contract Documents and are neither corrected by Contractor nor accepted by Owner.

F. If Contractor fails to correct nonconforming Work within a reasonable time after written notice to do so, Owner may replace, correct, or remove the nonconforming Work and charge the cost thereof to the Contractor.

G. Contractor shall bear the cost of correcting destroyed or damaged Work, whether completed or partially completed, caused by Contractor's correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

H. Nothing contained in this section shall be construed to establish a period of limitation with respect to other obligations which Contractor might have according to the Contract Documents. Establishment of the time period of one year as described in paragraph 5.16D relates only to the specific obligation of Contractor to correct the Work, and has no relationship to the time within which the Contractor's obligation to comply with the Contract Documents may be sought to be enforced, including the time within which such proceedings may be commenced.

I. If Owner prefers to accept Work which is not in accordance with the requirements of the Contract Documents, Owner may do so instead of requiring its removal and correction, in which case the Contract Sum may be reduced as appropriate and equitable.

5.17 CLEAN UP

A. Contractor shall at all times keep the Project site, including hauling routes, infrastructures, utilities, and storage areas, free from accumulations of waste materials. Before completing the Work, Contractor shall remove from the premises its rubbish, tools, scaffolding, equipment, and materials. Upon completing the Work, Contractor shall leave the Project site in a clean, neat, and orderly condition satisfactory to Owner. If Contractor fails to clean up as provided herein, and after reasonable notice from Owner, Owner may do so and the cost thereof shall be charged to Contractor.

5.18 ACCESS TO WORK

A. Contractor shall provide Owner and A/E access to the Work in progress wherever located.

5.19 OTHER CONTRACTS

A. Owner may undertake or award other contracts for additional work at or near the Project site. Contractor shall reasonably cooperate with the other contractors and with Owner's employees and

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shall carefully adapt scheduling and perform the Work in accordance with these Contract Documents to reasonably accommodate the other work.

5.20 SUBCONTRACTORS AND SUPPLIERS

A. The Contractor shall include the language of this paragraph in each of its first tier subcontract, and shall require each of its subcontractors to include the same language of this section in each of their subcontracts, adjusting only as necessary the terms used for the contracting parties. Upon request of the owner, the Contractor shall promptly provide documentation to the Owner demonstrating that the subcontractor meets the subcontractor responsibility criteria below. The requirements of this paragraph apply to all subcontractors regardless of tier. At the time of subcontract execution, the Contractor shall verify that each of its first-tier subcontractors meets the following bidder responsibility criteria:

1. Have a current certificate of registration as a contractor in compliance with chapter 18.27 RCW, which must have been in effect at the time of subcontract bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;
3. If applicable, have Industrial Insurance (workers' compensation) coverage for the subcontractor's employees working in Washington, as required in Title 51 RCW;
4. A Washington Employment Security Department number, as required in Title 50 RCW;
5. A Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
6. An electrical contractor license, if required by Chapter 19.28 RCW;
7. An elevator contractor license, if required by Chapter 70.87 RCW.
8. Not be disqualified from bidding any public works contract under RCW 39.06.010 or 39.12.065(3).
9. On a project subject to the apprenticeship utilization requirements in RCW 39.04.320, not have been found out of compliance by the Washington state apprenticeship and training council for working apprentices out of ratio, without appropriate supervision, or outside their approved work processes as outlined in their standards of apprenticeship under chapter 49.04 RCW for the one-year period immediately preceding the date of the Owner's first advertisement of the project.

B. Before submitting the first Application for Payment, Contractor shall furnish in writing to Owner the names, addresses, and telephone numbers of all Subcontractors, as well as suppliers providing materials in excess of \$2,500. Contractor shall utilize Subcontractors and suppliers which are experienced and qualified, and meet the requirements of the Contract Documents, if any. Contractor shall not utilize any Subcontractor or supplier to whom the Owner has a reasonable objection, and shall obtain Owner's written consent before making any substitutions or additions.

C. All Subcontracts must be in writing. By appropriate written agreement, Contractor shall require each Subcontractor, so far as applicable to the Work to be performed by the

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Subcontractor, to be bound to Contractor by terms of the Contract Documents, and to assume toward Contractor all the obligations and responsibilities which Contractor assumes toward Owner in accordance with the Contract Documents. Each Subcontract shall preserve and protect the rights of Owner in accordance with the Contract Documents with respect to the Work to be performed by the Subcontractor so that subcontracting thereof will not prejudice such rights. Where appropriate, Contractor shall require each Subcontractor to enter into similar agreements with Sub-subcontractors. However, nothing in this paragraph shall be construed to alter the contractual relations between Contractor and its Subcontractors with respect to insurance or bonds.

D. Contractor shall schedule, supervise, and coordinate the operations of all Subcontractors. No Subcontracting of any of the Work shall relieve Contractor from its responsibility for the performance of the Work in accordance with the Contract Documents or any other obligations of the Contract Documents.

E. Each subcontract agreement for a portion of the Work is hereby assigned by Contractor to Owner provided that:

1. The assignment is effective only after termination by Owner for cause pursuant to section 9.01 and only for those Subcontracts which Owner accepts by notifying the Subcontractor in writing; and
2. After the assignment is effective, Owner will assume all future duties and obligations toward the Subcontractor which Contractor assumed in the Subcontract.
3. The assignment is subject to the prior rights of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

5.21 WARRANTY OF CONSTRUCTION

A. In addition to any special warranties provided elsewhere in the Contract Documents, Contractor warrants that all Work conforms to the requirements of the Contract Documents and is free of any defect in equipment, material, or design furnished, or workmanship performed, by Contractor.

B. With respect to all warranties, express or implied, for Work performed or materials furnished according to the Contract Documents, Contractor shall:

1. Obtain all warranties that would be given in normal commercial practice;
2. Require all warranties to be executed, in writing, for the benefit of Owner;
3. Enforce all warranties for the benefit of Owner, if directed by Owner; and
4. Be responsible to enforce any subcontractor's, manufacturer's, or supplier's warranty should they extend beyond the period specified in the Contract Documents.

C. The obligations under this section shall survive Final Acceptance.

5.22 INDEMNIFICATION

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A. Contractor shall defend, indemnify, and hold Owner and A/E harmless from and against all claims, demands, losses, damages, or costs, including but not limited to damages arising out of bodily injury or death to persons and damage to property, caused by or resulting from:

1. The sole negligence of Contractor or any of its Subcontractors;
2. The concurrent negligence of Contractor, or any Subcontractor, but only to the extent of the negligence of Contractor or such Subcontractor; and
3. The use of any design, process, or equipment which constitutes an infringement of any United States patent presently issued, or violates any other proprietary interest, including copyright, trademark, and trade secret.

B. In any action against Owner and any other entity indemnified in accordance with this section, by any employee of Contractor, its Subcontractors, Sub-subcontractors, agents, or anyone directly or indirectly employed by any of them, the indemnification obligation of this section shall not be limited by a limit on the amount or type of damages, compensation, or benefits payable by or for Contractor or any Subcontractor under RCW Title 51, the Industrial Insurance Act, or any other employee benefit acts. In addition, Contractor waives immunity as to Owner and A/E only, in accordance with RCW Title 51.

PART 6 - PAYMENTS AND COMPLETION

6.01 CONTRACT SUM

A. Owner shall pay Contractor the Contract Sum for performance of the Work, in accordance with the Contract Documents.

6.02 SCHEDULE OF VALUES

A. Before submitting its first Application for Payment, Contractor shall submit to Owner for approval a breakdown allocating the total Contract Sum to each principle category of work, in such detail as requested by Owner ("Schedule of Values"). The approved Schedule of Values shall include appropriate amounts for demobilization, record drawings, O&M manuals, and any other requirements for Project closeout, and shall be used by Owner as the basis for progress payments. Payment for Work shall be made only for and in accordance with those items included in the Schedule of Values.

6.03 APPLICATION FOR PAYMENT

A. At monthly intervals at least thirty days before the 10th or 25th day of each month, unless determined otherwise by Owner, Contractor shall submit to Owner an itemized Application for Payment for Work completed in accordance with the Contract Documents and the approved Schedule of Values. Each application shall be supported by such substantiating data as Owner may require.

B. By submitting an Application for Payment, Contractor is certifying that all Subcontractors have been paid, less earned retainage in accordance with RCW

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60.28.010, as their interests appeared in the last preceding certificate of payment. By submitting an Application for Payment, Contractor is recertifying that the representations set forth in section 1.03 are true and correct, to the best of Contractor's knowledge, as of the date of the Application for Payment.

C. At the time it submits an Application for Payment, Contractor shall analyze and reconcile, to the satisfaction of Owner, the actual progress of the Work with the Progress Schedule.

D. If authorized by Owner, the Application for Payment may include request for payment for material delivered to the Project site and suitably stored, or for completed preparatory work. Payment may similarly be requested for material stored off the Project site, provided Contractor complies with or furnishes satisfactory evidence of the following:

1. The material will be placed in a warehouse that is structurally sound, dry, lighted and suitable for the materials to be stored;
2. The warehouse is located within a 10-mile radius of the Project. Other locations may be utilized, if approved in writing, by Owner;
3. Only materials for the Project are stored within the warehouse (or a secure portion of a warehouse set aside for the Project);
4. Contractor furnishes Owner a certificate of insurance extending Contractor's insurance coverage for damage, fire, and theft to cover the full value of all materials stored, or in transit;
5. The warehouse (or secure portion thereof) is continuously under lock and key, and only Contractor's authorized personnel shall have access;
6. Owner shall at all times have the right of access in company of Contractor;
7. Contractor and its surety assume total responsibility for the stored materials; and
8. Contractor furnishes to Owner certified lists of materials stored, bills of lading, invoices, and other information as may be required, and shall also furnish notice to Owner when materials are moved from storage to the Project site.

6.04 PROGRESS PAYMENTS

A. Owner shall make progress payments on the 10th or 25th of each calendar month, in the manner and within the time provided in the Contract Documents, in such amounts as Owner determines are properly due, after receipt of a properly executed Application for Payment. Owner shall notify Contractor in accordance with RCW 39.76 if the Application for Payment does not comply with the requirements of the Contract Documents.

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B. Owner shall retain 5% of the amount of each progress payment until 45 days after Final Acceptance and receipt of all documents required by law or the Contract Documents, including, at Owner's request, consent of surety to release of the retainage. In accordance with RCW 60.28, Contractor may request that monies reserved be retained in a fund by Owner, deposited by Owner in a bank or savings and loan, or placed in escrow with a bank or trust company to be converted into bonds and securities to be held in escrow with interest to be paid to Contractor. Owner may permit Contractor to provide an appropriate bond in lieu of the retained funds.

C. Title to all Work and materials covered by a progress payment shall pass to Owner at the time of such payment free and clear of all liens, claims, security interests, and encumbrances. Passage of title shall not, however, relieve Contractor from any of its duties and responsibilities for the Work or materials, or waive any rights of Owner to insist on full compliance by Contractor with the Contract Documents.

D. Payments due and unpaid in accordance with the Contract Documents shall bear interest as specified in RCW 39.76.

6.05 PAYMENTS WITHHELD

A. Owner may withhold or, on account of subsequently discovered evidence, nullify the whole or part of any payment to such extent as may be necessary to protect Owner from loss or damage for reasons including but not limited to:

1. Work not in accordance with the Contract Documents;
2. Reasonable evidence that the Work required by the Contract Documents cannot be completed for the unpaid balance of the Contract Sum;
3. Work by Owner to correct defective Work or complete the Work in accordance with section 5.16;
4. Failure to perform in accordance with the Contract Documents; or
5. Cost or liability that may occur to Owner as the result of Contractor's fault or negligent acts or omissions.

B. In any case where part or all of a payment is going to be withheld for unsatisfactory performance, Owner shall notify Contractor in accordance with RCW 39.76.

6.06 RETAINAGE AND BOND CLAIM RIGHTS

A. RCW chapters 39.08 and 60.28, concerning the rights and responsibilities of Contractor and Owner with regard to the performance and payment bonds and retainage, are made a part of the Contract Documents by reference as though fully set forth herein.

6.07 SUBSTANTIAL COMPLETION

A. Substantial Completion is the stage in the progress of the Work (or portion thereof designated and approved by Owner) when the construction is sufficiently complete, in

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accordance with the Contract Documents, so Owner has full and unrestricted use and benefit of the facilities (or the portion thereof designate and approved by Owner) for the use for which it is intended. All Work other than incidental corrective or punch list work shall be completed. Substantial Completion shall not have been achieved if all systems and parts are not functional, if utilities are not connected and operating normally, if all required occupancy permits have not been issued, or if the Work is not accessible by normal vehicular and pedestrian traffic routes. The date Substantial Completion is achieved shall be established in writing by Owner. Contractor may request an early date of Substantial Completion which must be approved by Change Order. Owner's occupancy of the Work or designated portion thereof does not necessarily indicate that Substantial Completion has been achieved.

6.08 PRIOR OCCUPANCY

A. Owner may, upon written notice thereof to Contractor, take possession of or use any completed or partially completed portion of the Work ("Prior Occupancy") at any time prior to Substantial Completion. Unless otherwise agreed in writing, Prior Occupancy shall not: be deemed an acceptance of any portion of the Work; accelerate the time for any payment to Contractor; prejudice any rights of Owner provided by any insurance, bond, guaranty, or the Contract Documents; relieve Contractor of the risk of loss or any of the obligations established by the Contract Documents; establish a date for termination or partial termination of the assessment of liquidated damages; or constitute a waiver of claims.

B. Notwithstanding anything in the preceding paragraph, Owner shall be responsible for loss of or damage to the Work resulting from Prior Occupancy. Contractor's one year duty to repair and any system warranties shall begin on building systems activated and used by Owner as agreed in writing by Owner and Contractor.

6.09 FINAL COMPLETION, ACCEPTANCE, AND PAYMENT

A. Final Completion shall be achieved when the Work is fully and finally complete in accordance with the Contract Documents. The date Final Completion is achieved shall be established by Owner in writing, but in no case shall constitute Final Acceptance which is a subsequent, separate, and distinct action.

B. Final Acceptance is the formal action of Owner acknowledging Final Completion. Prior to Final Acceptance, Contractor shall, in addition to all other requirements in the Contract Documents, submit to Owner a written notice of any outstanding disputes or claims between Contractor and any of its Subcontractors, including the amounts and other details thereof. Neither Final Acceptance, nor final payment, shall release Contractor or its sureties from any obligations of these Contract Documents or the Public Works Bond, or constitute a waiver of any claims by Owner arising from Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Acceptance of final payment by Contractor, or any Subcontractor, shall constitute a waiver and release to Owner of all claims by Contractor, or any such Subcontractor, for an increase in the Contract Sum or the Contract Time, and for every act or omission of Owner relating to or

arising out of the Work, except for those Claims made in accordance with the procedures, including the time limits, set forth in part 8.

PART 7 - CHANGES

7.01 CHANGE IN THE WORK

A. Owner may, at any time and without notice to Contractor's surety, order additions, deletions, revisions, or other changes in the Work. These changes in the Work shall be incorporated into the Contract Documents through the execution of Change Orders. If any change in the Work ordered by Owner causes an increase or decrease in the Contract Sum or the Contract Time, an equitable adjustment shall be made as provided in section 7.02 or 7.03, respectively, and such adjustment(s) shall be incorporated into a Change Order.

B. If Owner desires to order a change in the Work, it may request a written Change Order proposal from Contractor. Contractor shall submit a Change Order proposal within 14 days of the request from Owner, or within such other period as mutually agreed. Contractor's Change Order proposal shall be full compensation for implementing the proposed change in the Work, including any adjustment in the Contract Sum or Contract Time, and including compensation for all delays in connection with such change in the Work and for any expense or inconvenience, disruption of schedule, or loss of efficiency or productivity occasioned by the change in the Work.

C. Upon receipt of the Change Order proposal, or a request for equitable adjustment in the Contract Sum or Contract Time, or both, as provided in sections 7.02 and 7.03, Owner may accept or reject the proposal, request further documentation, or negotiate acceptable terms with Contractor. Pending agreement on the terms of the Change Order, Owner may direct Contractor to proceed immediately with the Change Order Work. Contractor shall not proceed with any change in the Work until it has obtained Owner's approval. All Work done pursuant to any Owner-directed change in the Work shall be executed in accordance with the Contract Documents.

D. If Owner and Contractor reach agreement on the terms of any change in the Work, including any adjustment in the Contract Sum or Contract Time, such agreement shall be incorporated in a Change Order. The Change Order shall constitute full payment and final settlement of all claims for time and for direct, indirect, and consequential costs, including costs of delays, inconvenience, disruption of schedule, or loss of efficiency or productivity, related to any Work either covered or affected by the Change Order, or related to the events giving rise to the request for equitable adjustment.

E. If Owner and Contractor are unable to reach agreement on the terms of any change in the Work, including any adjustment in the Contract Sum or Contract Time, Contractor may at any time in writing, request a final offer from Owner. Owner shall provide Contractor with its written response within 30 days of Contractor's request. Owner may also provide Contractor with a final offer at any time. If Contractor rejects Owner's final offer, or the parties are otherwise unable to reach agreement, Contractor's only remedy shall be to file a Claim as provided in part 8.

F. Owner may direct Contractor to proceed with a change in the Work through a written Field Authorization (also referred to as a Field Order) when the time required to price and execute a Change Order would impact the Project.

1. The Field Authorization shall describe and include the following:

- a. The scope of work.
- b. An agreed upon maximum not-to-exceed amount.
- c. Any estimated change to the Contract Time.
- d. The method of final cost determination in accordance with the requirements of Part 7 of the General Conditions.
- e. The supporting cost data to be submitted in accordance with the requirements of Part 7 of the General Conditions.

f. Upon satisfactory submittal by Contractor and approval by Owner of supporting cost data, a Change Order will be executed. Owner will not make payment to Contractor for Field Authorization work until that work has been incorporated into an executed Change Order.

7.02 CHANGE IN THE CONTRACT SUM

A. General Application

1. The Contract Sum shall only be changed by a Change Order. Contractor shall include any request for a change in the Contract Sum in its Change Order proposal.

2. If the cost of Contractor's performance is changed due to the fault or negligence of Owner, or anyone for whose acts Owner is responsible, Contractor shall be entitled to make a request for an equitable adjustment in the Contract Sum in accordance with the following procedure. No change in the Contract Sum shall be allowed to the extent: Contractor's changed cost of performance is due to the fault or negligence of Contractor, or anyone for whose acts Contractor is responsible; the change is concurrently caused by Contractor and Owner; or the change is caused by an act of Force Majeure as defined in Section 3.05.

a. A request for an equitable adjustment in the Contract Sum shall be based on written notice delivered to Owner within 7 days of the occurrence of the event giving rise to the request. For purposes of this part, "occurrence" means when Contractor knew, or in its diligent prosecution of the Work should have known, of the event giving rise to the request. If Contractor believes it is entitled to an adjustment in the Contract Sum, Contractor shall immediately notify Owner and begin to keep and maintain complete, accurate, and specific daily records.

Contractor shall give Owner access to any such records and, if requested shall promptly furnish copies of such records to Owner.

b. Contractor shall not be entitled to any adjustment in the Contract Sum for any occurrence of events or costs that occurred more than 7 days before Contractor's written notice to Owner. The written notice shall set forth, at a minimum, a description of: the event giving rise to the request for an equitable adjustment in the Contract Sum; the nature of the impacts to Contractor and its Subcontractors of any tier, if any; and to the extent possible the amount of the adjustment in Contract Sum requested. Failure to properly give such written notice shall constitute a waiver of Contractor's right to an equitable adjustment.

c. Within 30 days of the occurrence of the event giving rise to the request, unless Owner agrees in writing to allow an additional period of time to ascertain more accurate data, Contractor shall supplement the written notice provided in accordance with subparagraph a. above with additional supporting data. Such additional data shall include, at a minimum: the amount of compensation requested, itemized in accordance with the procedure set forth herein; specific facts, circumstances, and analysis that confirms not only that Contractor suffered the damages claimed, but that the damages claimed were actually a result of the act, event, or condition complained of and that the Contract Documents provide entitlement to an equitable adjustment to Contractor for such act, event, or condition; and documentation sufficiently detailed to permit an informed analysis of the request by Owner. When the request for compensation relates to a delay, or other change in Contract Time, Contractor shall demonstrate the impact on the critical path, in accordance with section 7.03C. Failure to provide such additional information and documentation within the time allowed or within the format required shall constitute a waiver of Contractor's right to an equitable adjustment.

d. Pending final resolution of any request made in accordance with this paragraph, unless otherwise agreed in writing, Contractor shall proceed diligently with performance of the Work.

e. Any requests by Contractor for an equitable adjustment in the Contract Sum and in the Contract Time that arise out of the same event(s) shall be submitted together.

3. The value of any Work covered by a Change Order, or of any request for an equitable adjustment in the Contract Sum, shall be determined by one of the following methods:

- a. On the basis of a fixed price as determined in paragraph 7.02B.
- b. By application of unit prices to the quantities of the items involved as determined in paragraph 7.02C.
- c. On the basis of time and material as determined in paragraph 7.02D.

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4. When Owner has requested Contractor to submit a Change Order proposal, Owner may direct Contractor as to which method in subparagraph 3. above to use when submitting its proposal. Otherwise, Contractor shall determine the value of the Work, or of a request for an equitable adjustment, on the basis of the fixed price method.

B. Change Order Pricing -- Fixed Price

1. When the fixed price method is used to determine the value of any Work covered by a Change Order, or of a request for an equitable adjustment in the Contract Sum, the following procedures shall apply:

a. Contractor's Change Order proposal, or request for adjustment in the Contract Sum, shall be accompanied by a complete itemization of the costs, including labor, material, subcontractor costs, and overhead and profit. The costs shall be itemized in the manner set forth below, and shall be submitted on breakdown sheets in a form approved by Owner.

b. All costs shall be calculated based upon appropriate industry standard methods of calculating labor, material quantities, and equipment costs.

c. If any of Contractor's pricing assumptions are contingent upon anticipated actions of Owner, Contractor shall clearly state them in the proposal or request for an equitable adjustment.

d. The cost of any additive or deductive changes in the Work shall be calculated as set forth below, except that overhead and profit shall not be included on deductive changes in the Work. Where a change in the Work involves additive and deductive work by the same Contractor or Subcontractor, small tools, overhead, profit, bond and insurance markups will apply to the net difference.

e. If the total cost of the change in the Work or request for equitable adjustment does not exceed \$1,000, Contractor shall not be required to submit a breakdown if the description of the change in the Work or request for equitable adjustment is sufficiently definitive for Owner to determine fair value.

f. If the total cost of the change in the Work or request for equitable adjustment is between \$1,000 and \$2,500, Contractor may submit a breakdown in the following level of detail if the description of the change in the Work or if the request for equitable adjustment is sufficiently definitive to permit the Owner to determine fair value:

- 1) lump sum labor;
- 2) lump sum material;
- 3) lump sum equipment usage;
- 4) overhead and profit as set forth below; and

5) insurance and bond costs as set forth below.

2. Any request for adjustment of Contract Sum based upon the fixed price method shall include only the following items:

a. Craft labor costs: These are the labor costs determined by multiplying the estimated or actual additional number of craft hours needed to perform the change in the Work by the hourly labor costs. Craft hours should cover direct labor, as well as indirect labor due to trade inefficiencies. The hourly costs shall be based on the following:

1) Basic wages and benefits: Hourly rates and benefits as stated on the Department of Labor and Industries approved "statement of intent to pay prevailing wages." Direct supervision shall be a reasonable percentage not to exceed 15% of the cost of direct labor. No supervision markup shall be allowed for a working supervisor's hours.

2) Worker's insurance: Direct contributions to the state of Washington for industrial insurance; medical aid; and supplemental pension, by the class and rates established by the Department of Labor and Industries.

3) Federal insurance: Direct contributions required by the Federal Insurance Compensation Act; Federal Unemployment Tax Act; and the State Unemployment Compensation Act.

4) Travel allowance: Travel allowance and/or subsistence, if applicable, not exceeding those allowances established by regional labor union agreements, which are itemized and identified separately.

5) Safety: Cost incurred due to the Washington Industrial Safety and Health Act, which shall be a reasonable percentage not to exceed 2% of the sum of the amounts calculated in (1), (2), and (3) above.

b. Material costs: This is an itemization of the quantity and cost of materials needed to perform the change in the Work. Material costs shall be developed first from actual known costs, second from supplier quotations or if these are not available, from standard industry pricing guides. Material costs shall consider all available discounts. Freight costs, express charges, or special delivery charges, shall be itemized.

c. Equipment costs: This is an itemization of the type of equipment and the estimated or actual length of time the construction equipment appropriate for the Work is or will be used on the change in the Work. Costs will be allowed for construction equipment only if used solely for the changed Work, or for additional rental costs actually incurred by the

Contractor. Equipment charges shall be computed on the basis of actual invoice costs or if owned, from the current edition of one of the following sources:

- 1) Associated General Contractors - Washington State Department of Transportation (AGC WSDOT) Equipment Rental Agreement current edition as of the Contract execution date.
- 2) The state of Washington Utilities and Transportation Commission for trucks used on highways.
- 3) The National Electrical Contractors Association for equipment used on electrical work.
- 4) The Mechanical Contractors Association of America for equipment used on mechanical work.
- 5) The Equipment Watch Rental Rate Blue Book shall be used as a basis for establishing rental rates of equipment not listed in the above sources. The maximum rate for standby equipment shall not exceed that shown in the AGC WSDOT Equipment Rental Agreement, current edition as of the Contract execution date.

d. Allowance for small tools, expendables & consumable supplies: Small tools consist of tools which cost \$250 or less and are normally furnished by the performing contractor. The maximum rate for small tools shall not exceed the following:

- 1) For Contractor, 3% of direct labor costs.
- 2) For Subcontractors, 5% of direct labor costs.
- 3) Expendables and consumable supplies directly associated with the change in Work must be itemized.

e. Subcontractor costs: This is defined as payments Contractor makes to Subcontractors for changed Work performed by Subcontractors of any tier. The Subcontractors' cost of Work shall be calculated and itemized in the same manner as prescribed herein for Contractor.

f. Allowance for overhead: This is defined as costs of any kind attributable to direct and indirect delay, acceleration, or impact, added to the total cost to Owner of any change in the Contract Sum but not to the cost of any change in the Contract Time for which contractor has been compensated pursuant to the conditions set forth in Section 7.03. This allowance shall compensate Contractor for all Non craft labor, temporary construction facilities, field engineering, schedule updating, as-built drawings, home office cost, B&O taxes, office engineering, estimating costs, additional overhead because of extended time, and any other cost incidental to the change in the Work. It shall be strictly limited in all cases to a reasonable amount, mutually acceptable, or if none can be agreed upon to an amount not to exceed the rates below:

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1) For projects where the Contract Award Amount is under \$3 million, the following shall apply:

- a) For Contractor, for any Work actually performed by Contractor's own forces, 16% of the first \$50,000 of the cost, and 4% of the remaining cost, if any.
- b) For each Subcontractor (including lower tier subcontractors), for any Work actually performed by its own forces, 16% of the first \$50,000 of the cost, and 4% of the remaining cost, if any.
- c) For Contractor, for any work performed by its Subcontractor(s), 6% of the first \$50,000 of the amount due each Subcontractor, and 4% of the remaining amount if any.
- d) For each Subcontractor, for any Work performed by its Subcontractor(s) of any lower tier, 4% of the first \$50,000 of the amount due the sub-Subcontractor, and 2% of the remaining amount if any.
- e) The cost to which overhead is to be applied shall be determined in accordance with subparagraphs Section 7.02B 7a.-e.

2) For projects where the Contract Award Amount is equal to or exceeds \$3 million, the following shall apply:

- a) For Contractor, for any Work actually performed by Contractor's own forces, 12% of the first \$50,000 of the cost, and 4% of the remaining cost, if any.
- b) For each Subcontractor (including lower tier subcontractors), for any Work actually performed by its own forces, 12% of the first \$50,000 of the cost, and 4% of the remaining cost, if any.
- c) For Contractor, for any Work performed by its Subcontractor(s), 4% of the first \$50,000 of the amount due each Subcontractor, and 2% of the remaining amount if any.
- d) For each Subcontractor, for any Work performed by its Subcontractor(s) of any lower tier, 4% of the first \$50,000 of the amount due the sub-Subcontractor, and 2% of the remaining amount if any.
- e) The cost to which overhead is to be applied shall be determined in accordance with subparagraphs Section 7.02B 7a.-e. g. Allowance for profit: This is an amount to be added to the cost of any change in contract sum, but not to the cost of change in Contract Time for which contractor has been

compensated pursuant to the conditions set forth in section 7.03. It shall be limited to a reasonable amount, mutually acceptable, or if none can be agreed upon, to an amount not to exceed the rates below:

1) For Contractor or Subcontractor of any tier for work performed by their forces, 6% of the cost developed in accordance with Section 7.02 b. 7a.-e.

2) For Contractor or Subcontractor of any tier for work performed by a subcontractor of a lower tier, 4% of the Subcontractor cost developed in accordance with Section 7.02 b. 7a.-h.

h. Cost of change in insurance or bond premium: This is defined as:

1) Contractor's liability insurance: The cost of any changes in Contractor's liability insurance arising directly from execution of the Change Order; and

2) Public works bond: The cost of the additional premium for Contractor's bond arising directly from the changed Work.

i. The costs of any change in insurance or bond premium shall be added after overhead and allowance for profit are calculated in accordance with subparagraph f. and g. above.

C. Change Order Pricing -- Unit Prices

1. Whenever Owner authorizes Contractor to perform Work on a unit-price basis, Owner's authorization shall clearly state:

a. Scope of work to be performed;

b. Type of reimbursement including pre-agreed rates for material quantities; and

c. Cost limit of reimbursement.

2. Contractor shall:

a. Cooperate with Owner and assist in monitoring the Work being performed. As requested by Owner, Contractor shall identify workers assigned to the Change Order Work and areas in which they are working;

b. Leave access as appropriate for quantity measurement; and

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c. Not exceed any cost limit(s) without Owner's prior written approval.

3. Contractor shall submit costs in accordance with paragraph 7.02B. and satisfy the following requirements:

a. Unit prices shall include reimbursement for all direct and indirect costs of the Work, including overhead and profit, and bond and insurance costs; and

b. Quantities must be supported by field measurement statements signed by Owner.

D. Change Order Pricing -- Time-and-Material Prices

1. Whenever Owner authorizes Contractor to perform Work on a time-and-material basis, Owner's authorization shall clearly state:

a. Scope of Work to be performed;

b. Type of reimbursement including pre-agreed rates, if any, for material quantities or labor; and

c. Cost limit of reimbursement.

2. Contractor shall:

a. Cooperate with Owner and assist in monitoring the Work being performed. As requested by Owner, identify workers assigned to the Change Order Work and areas in which they are working;

b. Identify on daily time sheets all labor performed in accordance with this authorization. Submit copies of daily time sheets within 2 working days for Owner's review;

c. Leave access as appropriate for quantity measurement;

d. Perform all Work in accordance with this section as efficiently as possible; and

e. Not exceed any cost limit(s) without Owner's prior written approval.

3. Contractor shall submit costs in accordance with paragraph 7.02B and additional verification supported by:

a. Labor detailed on daily time sheets; and b. Invoices for material.

7.03 CHANGE IN THE CONTRACT TIME

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A. The Contract Time shall only be changed by a Change Order. Contractor shall include any request for a change in the Contract Time in its Change Order proposal.

B. If the time of Contractor's performance is changed due to an act of Force Majeure, or due to the fault or negligence of Owner or anyone for whose acts Owner is responsible, Contractor shall be entitled to make a request for an equitable adjustment in the Contract Time in accordance with the following procedure. No adjustment in the Contract Time shall be allowed to the extent Contractor's changed time of performance is due to the fault or negligence of Contractor, or anyone for whose acts Contractor is responsible.

1. A request for an equitable adjustment in the Contract Time shall be based on written notice delivered within 7 days of the occurrence of the event giving rise to the request. If Contractor believes it is entitled to adjustment of Contract Time, Contractor shall immediately notify Owner and begin to keep and maintain complete, accurate, and specific daily records. Contractor shall give Owner access to any such record and if requested, shall promptly furnish copies of such record to Owner.

2. Contractor shall not be entitled to an adjustment in the Contract Time for any events that occurred more than 7 days before Contractor's written notice to Owner. The written notice shall set forth, at a minimum, a description of: the event giving rise to the request for an equitable adjustment in the Contract Time; the nature of the impacts to Contractor and its Subcontractors of any tier, if any; and to the extent possible the amount of the adjustment in Contract Time requested. Failure to properly give such written notice shall constitute a waiver of Contractor's right to an equitable adjustment.

3. Within 30 days of the occurrence of the event giving rise to the request, unless Owner agrees in writing to allow an additional period of time to ascertain more accurate data, Contractor shall supplement the written notice provided in accordance with subparagraph 7.03B.2 with additional supporting data. Such additional data shall include, at a minimum: the amount of delay claimed, itemized in accordance with the procedure set forth herein; specific facts, circumstances, and analysis that confirms not only that Contractor suffered the delay claimed, but that the delay claimed was actually a result of the act, event, or condition complained of, and that the Contract Documents provide entitlement to an equitable adjustment in Contract Time for such act, event, or condition; and supporting documentation sufficiently detailed to permit an informed analysis of the request by Owner. Failure to provide such additional information and documentation within the time allowed or within the format required shall constitute a waiver of Contractor's right to an equitable adjustment.

4. Pending final resolution of any request in accordance with this paragraph, unless otherwise agreed in writing, Contractor shall proceed diligently with performance of the Work.

C. Any change in the Contract Time covered by a Change Order, or based on a request for an equitable adjustment in the Contract Time, shall be limited to the change in the critical path of Contractor's schedule attributable to the change of Work or event(s) giving rise to the request for equitable adjustment. Any Change Order proposal or request for an adjustment in the Contract Time shall demonstrate the impact on the critical path of the schedule. Contractor shall be responsible for showing clearly on the Progress Schedule that the change or event: had a specific impact on the critical path, and except in case of concurrent delay, was the sole cause of such impact; and could not have been avoided by resequencing of the Work or other reasonable alternatives.

D. Contractor may request compensation for the cost of a change in Contract Time in accordance with this paragraph, 7.03D, subject to the following conditions:

1. The change in Contract Time shall solely be caused by the fault or negligence of Owner or A/E;
2. Compensation under this paragraph is limited to changes in Contract Time for which Contractor is not entitled to be compensated under section 7.02;
3. Contractor shall follow the procedure set forth in paragraph 7.03B;
4. Contractor shall establish the extent of the change in Contract Time in accordance with paragraph 7.03C; and
5. The daily cost of any change in Contract Time shall be limited to the items below, less funds that may have been paid pursuant to a change in the Contract Sum that contributed to this change in Contract Time:
 - a. cost of nonproductive field supervision or labor extended because of the delay;
 - b. cost of weekly meetings or similar indirect activities extended because of the delay;
 - c. cost of temporary facilities or equipment rental extended because of the delay;
 - d. cost of insurance extended because of the delay;
 - e. general and administrative overhead in an amount to be agreed upon, but not to exceed 3% of Contract Sum divided by the Contract Time for each day of the delay.

PART 8 - CLAIMS AND DISPUTE RESOLUTION

8.01 CLAIMS PROCEDURE

A. If the parties fail to reach agreement on the terms of any Change Order for Owner-directed Work as provided in Section 7.01, or on the resolution of any request for an equitable adjustment in the Contract Sum as provided in section 7.02 or the Contract Time as provided in

section 7.03, Contractor's only remedy shall be to file a Claim with Owner as provided in this section.

B. Contractor shall file its Claim within the earlier of: 120 days from Owner's final offer in accordance with either paragraph 7.01E or the date of Final Acceptance.

C. The Claim shall be deemed to cover all changes in cost and time (including direct, indirect, impact, and consequential) to which Contractor may be entitled. It shall be fully substantiated and documented. At a minimum, the Claim shall contain the following information:

1. A detailed factual statement of the Claim for additional compensation and time, if any, providing all necessary dates, locations, and items of Work affected by the Claim;
2. The date on which facts arose which gave rise to the Claim
3. The name of each employee of Owner or A/E knowledgeable about the Claim;
4. The specific provisions of the Contract Documents which support the Claim;
5. The identification of any documents and the substance of any oral communications that support the Claim;
6. Copies of any identified documents, other than the Contract Documents, that support the Claim;
7. If an adjustment in the Contract Time is sought: the specific days and dates for which it is sought; the specific reasons Contractor believes an extension in the Contract Time should be granted; and Contractor's analysis of its Progress Schedule to demonstrate the reason for the extension in Contract Time;
8. If an adjustment in the Contract Sum is sought, the exact amount sought and a breakdown of that amount into the categories set forth in, and in the detail required by, section 7.02; and
9. A statement certifying, under penalty of perjury, that the Claim is made in good faith, that the supporting cost and pricing data are true and accurate to the best of Contractor's knowledge and belief, that the Claim is fully supported by the accompanying data, and that the amount requested accurately reflects the adjustment in the Contract Sum or Contract Time for which Contractor believes Owner is liable.

D. After Contractor has submitted a fully documented Claim that complies with all applicable provisions of parts 7 and 8, Owner shall respond, in writing, to Contractor as follows:

1. If the Claim amount is less than \$50,000, with a decision within 60 days from the date the Claim is received; or
2. If the Claim amount is \$50,000 or more, with a decision within 60 days from the date the Claim is received, or with notice to Contractor of the date by which it will render its decision. Owner will then respond with a written decision in such additional time.

E. To assist in the review of Contractor's Claim, Owner may visit the Project site, or request additional information, in order to fully evaluate the issues raised by the Claim. Contractor shall proceed with performance of the Work pending final resolution of any Claim. Owner's written decision as set forth above shall be final and conclusive as to all matters set forth in the Claim, unless Contractor follows the procedure set forth in section 8.02.

F. Any Claim of the Contractor against the Owner for damages, additional compensation, or additional time, shall be conclusively deemed to have been waived by the Contractor unless timely made in accordance with the requirements of this section.

8.02 ARBITRATION

A. If Contractor disagrees with Owner's decision rendered in accordance with paragraph 8.01D, Contractor shall provide Owner with a written demand for arbitration. No demand for arbitration of any such Claim shall be made later than 30 days after the date of Owner's decision on such Claim; failure to demand arbitration within said 30-day period shall result in Owner's decision being final and binding upon Contractor and its Subcontractors.

B. Notice of the demand for arbitration shall be filed with the American Arbitration Association (AAA), with a copy provided to Owner. The parties shall negotiate or mediate under the Voluntary Construction Mediation Rules of the AAA, or mutually acceptable service, before seeking arbitration in accordance with the Construction Industry Arbitration Rules of AAA as follows:

1. Disputes involving \$30,000 or less shall be conducted in accordance with the Northwest Region Expedited Commercial Arbitration Rules; or
2. Disputes over \$30,000 shall be conducted in accordance with the Construction Industry Arbitration Rules of the AAA, unless the parties agree to use the expedited rules.

C. All Claims arising out of the Work shall be resolved by arbitration. The judgment upon the arbitration award may be entered, or review of the award may occur, in the superior court having jurisdiction thereof. No independent legal action relating to or arising from the Work shall be maintained.

D. Claims between Owner and Contractor, Contractor and its Subcontractors, Contractor and A/E, and Owner and A/E shall, upon demand by Owner, be submitted in the same arbitration or mediation.

E. If the parties resolve the Claim prior to arbitration judgment, the terms of the resolution shall be incorporated in a Change Order. The Change Order shall constitute full payment and final settlement of the Claim, including all claims for time and for direct, indirect, or consequential costs, including costs of delays, inconvenience, disruption of schedule, or loss of efficiency or productivity.

8.03 CLAIMS AUDITS

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A. All Claims filed against Owner shall be subject to audit at any time following the filing of the Claim. Failure of Contractor, or Subcontractors of any tier, to maintain and retain sufficient records to allow Owner to verify all or a portion of the Claim or to permit Owner access to the books and records of Contractor, or Subcontractors of any tier, shall constitute a waiver of the Claim and shall bar any recovery.

B. In support of Owner audit of any Claim, Contractor shall, upon request, promptly make available to Owner the following documents:

1. Daily time sheets and supervisor's daily reports;
2. Collective bargaining agreements;
3. Insurance, welfare, and benefits records;
4. Payroll registers;
5. Earnings records;
6. Payroll tax forms;
7. Material invoices, requisitions, and delivery confirmations;
8. Material cost distribution worksheet;
9. Equipment records (list of company equipment, rates, etc.);
10. Vendors', rental agencies', Subcontractors', and agents' invoices;
11. Contracts between Contractor and each of its Subcontractors, and all lower-tier Subcontractor contracts and supplier contracts;
12. Subcontractors' and agents' payment certificates;
13. Cancelled checks (payroll and vendors);
14. Job cost report, including monthly totals;
15. Job payroll ledger;
16. Planned resource loading schedules and summaries;
17. General ledger;
18. Cash disbursements journal;
19. Financial statements for all years reflecting the operations on the Work. In addition, the Owner may require, if it deems it appropriate, additional financial statements for 3 years preceding execution of the Work;
20. Depreciation records on all company equipment whether these records are maintained by the company involved, its accountant, or others;

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21. If a source other than depreciation records is used to develop costs for Contractor's internal purposes in establishing the actual cost of owning and operating equipment, all such other source documents;

22. All nonprivileged documents which relate to each and every Claim together with all documents which support the amount of any adjustment in Contract Sum or Contract Time sought by each Claim;

23. Work sheets or software used to prepare the Claim establishing the cost components for items of the Claim including but not limited to labor, benefits and insurance, materials, equipment, Subcontractors, all documents which establish the time periods, individuals involved, the hours for the individuals, and the rates for the individuals; and

24. Work sheets, software, and all other documents used by Contractor to prepare its bid.

C. The audit may be performed by employees of Owner or a representative of Owner. Contractor, and its Subcontractors, shall provide adequate facilities acceptable to Owner, for the audit during normal business hours. Contractor, and all Subcontractors, shall make a good faith effort to cooperate with Owner's auditors.

PART 9 - TERMINATION OF THE WORK 9.01 TERMINATION BY OWNER FOR CAUSE

A. Owner may, upon 7 days written notice to Contractor and to its surety, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for cause upon the occurrence of any one or more of the following events:

1. Contractor fails to prosecute the Work or any portion thereof with sufficient diligence to ensure Substantial Completion of the Work within the Contract Time;

2. Contractor is adjudged bankrupt, makes a general assignment for the benefit of its creditors, or a receiver is appointed on account of its insolvency;

3. Contractor fails in a material way to replace or correct Work not in conformance with the Contract Documents;

4. Contractor repeatedly fails to supply skilled workers or proper materials or equipment;

5. Contractor repeatedly fails to make prompt payment due to Subcontractors or for labor;

6. Contractor materially disregards or fails to comply with laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction; or

7. Contractor is otherwise in material breach of any provision of the Contract Documents.

B. Upon termination, Owner may at its option:

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1. Take possession of the Project site and take possession of or use all materials, equipment, tools, and construction equipment and machinery thereon owned by Contractor to maintain the orderly progress of, and to finish, the Work;
2. Accept assignment of subcontracts pursuant to section 5.21; and
3. Finish the Work by whatever other reasonable method it deems expedient.

C. Owner's rights and duties upon termination are subject to the prior rights and duties of the surety, if any, obligated under any bond provided in accordance with the Contract Documents.

D. When Owner terminates the Work in accordance with this section, Contractor shall take the actions set forth in paragraph 9.02B, and shall not be entitled to receive further payment until the Work is accepted.

E. If the unpaid balance of the Contract Sum exceeds the cost of finishing the Work, including compensation for A/E's services and expenses made necessary thereby and any other extra costs or damages incurred by Owner in completing the Work, or as a result of Contractor's actions, such excess shall be paid to Contractor. If such costs exceed the unpaid balance, Contractor shall pay the difference to Owner. These obligations for payment shall survive termination.

F. Termination of the Work in accordance with this section shall not relieve Contractor or its surety of any responsibilities for Work performed.

G. If Owner terminates Contractor for cause, and it is later determined that none of the circumstances set forth in paragraph 9.01A exist, then such termination shall be deemed a termination for convenience pursuant to section 9.02.

9.02 TERMINATION BY OWNER FOR CONVENIENCE

A. Owner may, upon written notice, terminate (without prejudice to any right or remedy of Owner) the Work, or any part of it, for the convenience of Owner.

B. Unless Owner directs otherwise, after receipt of a written notice of termination for either cause or convenience, Contractor shall promptly:

1. Stop performing Work on the date and as specified in the notice of termination;
2. Place no further orders or subcontracts for materials, equipment, services or facilities, except as may be necessary for completion of such portion of the Work as is not terminated;
3. Cancel all orders and subcontracts, upon terms acceptable to Owner, to the extent that they relate to the performance of Work terminated;

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4. Assign to Owner all of the right, title, and interest of Contractor in all orders and subcontracts;

5. Take such action as may be necessary or as directed by Owner to preserve and protect the Work, Project site, and any other property related to this Project in the possession of Contractor in which Owner has an interest; and

6. Continue performance only to the extent not terminated.

C. If Owner terminates the Work or any portion thereof for convenience, Contractor shall be entitled to make a request for an equitable adjustment for its reasonable direct costs incurred prior to the effective date of the termination, plus a reasonable allowance for overhead and profit on Work performed prior to termination, plus the reasonable administrative costs of the termination, but shall not be entitled to any other costs or damages, whatsoever, provided however, the sum payable upon termination shall not exceed the Contract Sum reduced by prior payments. Contractor shall be required to make its request in accordance with the provisions of part 7.

D. If Owner terminates the Work or any portion thereof for convenience, the Contract Time shall be adjusted as determined by Owner.

PART 10 - MISCELLANEOUS PROVISIONS

10.01 GOVERNING LAW

A. The Contract Documents and the rights of the parties herein shall be governed by the laws of the state of Washington. Venue shall be in Kitsap County, unless otherwise specified.

10.02 SUCCESSORS AND ASSIGNS

A. Owner and Contractor respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents. Neither party shall assign the Work without written consent of the other, except that Contractor may assign the Work for security purposes, to a bank or lending institution authorized to do business in the state of Washington. If either party attempts to make such an assignment without such consent, that party shall nevertheless remain legally responsible for all obligations set forth in the Contract Documents.

10.03 MEANING OF WORDS

A. Unless otherwise stated in the Contract Documents, words which have well-known technical or construction industry meanings are used in the Contract Documents in accordance with such recognized meanings. Reference to standard specifications, manuals, or codes of any technical society, organization, or association, or to the code of any governmental authority, whether such reference be specific or by implication, shall be to the latest standard specification, manual, or code in effect on the date for

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submission of bids, except as may be otherwise specifically stated. Wherever in these Drawings and Specifications an article, device, or piece of equipment is referred to in the singular manner, such reference shall apply to as many such articles as are shown on the drawings or required to complete the installation.

10.04 RIGHTS AND REMEDIES

A. No action or failure to act by Owner or A/E shall constitute a waiver of a right or duty afforded them under the Contract Documents, nor shall such action or failure to act constitute approval of an acquiescence in a breach therein, except as may be specifically agreed in writing.

10.05 CONTRACTOR REGISTRATION

A. Pursuant to RCW 39.06, Contractor shall be registered or licensed as required by the laws of the State of Washington, including but not limited to RCW 18.27.

10.06 TIME COMPUTATIONS

A. When computing any period of time, the day of the event from which the period of time begins shall not be counted. The last day is counted unless it falls on a weekend or legal holiday, in which event the period runs until the end of the next day that is not a weekend or holiday. When the period of time allowed is less than 7 days, intermediate Saturdays, Sundays, and legal holidays are excluded from the computation.

10.07 RECORDS RETENTION

A. The wage, payroll, and cost records of Contractor, and its Subcontractors, and all records subject to audit in accordance with section 8.03, shall be retained for a period of not less than 6 years after the date of Final Acceptance.

10.08 THIRD-PARTY AGREEMENTS

A. The Contract Documents shall not be construed to create a contractual relationship of any kind between: A/E and Contractor; Owner and any Subcontractor; or any persons other than Owner and Contractor.

10.09 ANTITRUST ASSIGNMENT

A. Owner and Contractor recognize that in actual economic practice, overcharges resulting from antitrust violations are in fact usually borne by the purchaser. Therefore, Contractor hereby assigns to Owner any and all claims for such overcharges as to goods, materials, and equipment purchased in connection with the Work performed in accordance with the Contract Documents, except as to overcharges which result from antitrust violations commencing after the Contract Sum is established and which are not passed on to Owner under a Change Order. Contractor shall put a similar clause in its Subcontracts, and require a similar clause in its sub-Subcontracts, such that all claims for such overcharges on the Work are passed to Owner by Contractor.

10.10. HEADINGS AND CAPTIONS

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A. All headings and captions used in these General Conditions are only for convenience of reference and shall not be used in any way in connection with the meaning, effect, interpretation, construction, or enforcement of the General Conditions, and do not define the limit or describe the scope or intent of any provision of these General Conditions.

Bainbridge Island Metropolitan Park & Recreation District

MEMORANDUM

TO: All Potential Bidders
FROM: Bainbridge Island Metropolitan Park and Recreation District
SUBJECT: Sakai Park Tennis Courts #3010

At the time of the bidding, please submit the following forms, which are attached. Please do not submit your full specification booklet. Failure to properly complete or submit ALL forms will render your bid non-responsive.

- Bidder's Proposal Form
 - Base Bid with 8' fencing
 - Alternative with 10' fencing
 - Optional Add On gravel road realignment
 - Receipt of Addendum(s), signature and form information to be complete on page

- Bidder's Bond

If you have any questions, please contact the Procurement Manager, Michelle Miller,
michellem@biparks.org

BIDDER'S PROPOSAL

To Bainbridge Island Metropolitan Park and Recreation District
11700 Meadowmeer Circle NE
Bainbridge Island, WA 98110

1. The undersigned Bidder declares that he has read and fully understands the Notice inviting bids and each and every other Contract Document referred to therein and agrees to all of the terms, conditions and provisions contained therein; that he has examined the site of the work and has made the investigations and formed the estimates as to all conditions and contingencies referred to in and required by the Contract Documents, and he proposes and agrees that if his bid as submitted in the Proposal be accepted, he will contract in the form provided to perform all of the work and in the manner required by the Contract Documents and to complete the same within the time stipulated; that he will accept in full payment therefor the prices named herein. Said prices are to include and cover the furnishing of all materials, the performing of all labor requisite or proper, supervision, overhead, profit, taxes (excluding State sales tax), and the providing of all necessary machinery, tools, appurtenances, equipment and other means required to fully complete this contract, except as otherwise specifically provided in the Specifications.
2. Bidder further agrees that he will sign the contract in accordance with the Proposal as accepted and furnish the required bonds within ten (10) days from date of mailing of said notice of acceptance to him at his address as given below or within such additional time as may be allowed by the Architect, but in any event within twenty (20) days after said mailing; upon his failure or refusal to do so within said time, the certified or cashier's check or bidder's bond, accompanying his bid, and the money payable thereon, shall be forfeited to and become the property of the owner as liquidated damages (and not a penalty) for such failure or refusal, provided, that if said bidder shall execute the contract and furnish the required bonds within the time aforesaid, his certified or cashier's check, if furnished, shall be returned to him within three (3) days thereafter, and the bid bond, if furnished, shall become void.
3. Bidder agrees that his Proposal shall remain open and not withdrawn for a period of not less than sixty (60) days from the date of opening bids.
4. No extra will be allowed if an increase becomes necessary due to an error or omission of contractor or any subcontractor.
5. Written "Changes in Work" will be issued formalizing any authorized changes.
6. Owner will evaluate bids to determine the lowest Total Price offered by responsive, responsible bidder. The Owner reserves the right to reject a bid in the event it is determined that any price for any bid item is unreasonable, unbalanced, or otherwise not in the best interest of Owner. A contract will be awarded, if at all, based on the lowest Total Price of responsive, responsible bidder.

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7. The owner reserves the right, but without obligation, to weigh the irregularities and informalities. The Owner further reserves the right to reject any portion of any bid, and/or to reject all bids. Construction shall be completed within 180 calendar days from the written notice to proceed. If not completed by such date, the Contractor shall be liable to the District for damages. The Contractor acknowledges and agrees to abide by all provisions of the General Conditions Article 3.07, Damages for Failure to Achieve Timely Completion. The Contractor further agrees to pay to the Owner as liquidated damages (and not a penalty) the sum of \$500.00 for each calendar day that he shall be in default after the time of completion specified herein.
8. Receipt of addenda numbered is hereby acknowledged and all costs of the work therefore have been included in the Proposal.
9. Base Bid Schedule – see next page
10. Attached forms: Bidder's Bond or Certified/Cashier's Check

BIDDER'S PROPOSAL FORM Page 1

The undersigned hereby certifies that they have examined the locations and constructions details of work outlined in the Plans and Specifications for: **SAKAI PARK TENNIS COURTS #3010** on Bainbridge Island in Kitsap County, WA, and has read and thoroughly understands the plans, specifications, and contract governing the work included in this improvement, and the method by which payment will be made for said work, and hereby propose to undertake and compete the work included in this improvement in accordance with the said plans, specifications, and contract and at the following schedule of rates and prices.

NOTE: Unit prices and total prices for all items, all extensions, and total amount of bid must be shown. Show prices and legible figures (not words) written in ink or typed

ITEM No.	BID ITEM DESCRIPTION	UNIT	QTY	SUM TOTAL
1	All Work including 8' Perimeter Court Fencing	Lump Sum	1	
BASE BID SUBTOTAL				\$
WASHINGTON STATE SALES TAX (9.2%)				\$
GRAND TOTAL BID				\$

ALTERNATIVE	BID ALTERNATE DESCRIPTION	UNIT	QTY	SUM TOTAL
A	All Work including 10' Perimeter Court Fencing	Lump Sum	1	
ALTERNATIVE BASE BID SUBTOTAL				
WASHINGTON STATE SALES TAX (9.2%)				
ALTERNATIVE GRAND TOTAL BID				

OPTIONAL ADD ON	Gravel Road Realignment	Lump Sum	1	
WASHINGTON STATE SALES TAX (9.2%)				
GRAND TOTAL OPTION TO ADD ON: GRAVEL ROAD REALIGNMENT				

Evaluation of Bids: The evaluation of bids and determination of the lowest responsive and responsible bid will be based on Base Bid Subtotal for Item 1 in the above table.

Addenda: Bidder acknowledges review of all Addenda through No. _____

Bidding Company

Date

BIDDER'S PROPOSAL FORM Page 2

Responsible Bidder Information: Providing the following information is MANDATORY to meet “Responsible Bidder” requirements. Failure to provide this information may disqualify your bid as being “non-responsive”. *If your business is not required to have one of the following numbers, explain.*

State of Washington Contractor Registration No. _____

State of Washington Unified Business Identifier No. _____

Employment Security Department No. _____

State of Washington Excise Tax Registration No. _____

Have you received training, provided by the Department of Labor and Industries or by a provider whose curriculum has been approved by L&I, on the requirements related to public works and prevailing wages? Y / N

If not, have you completed three or more public works projects and maintained a valid business license in Washington in the past three years? Y / N

Is the payment of Worker’s Comp (Industrial Insurance) Premiums current? Y / N

If your business does not have a Worker’s Comp account with the WA State Dept of Labor & Industries, please explain why: _____

Are you disqualified from bidding on public works projects in the State of Washington? Y / N

SUBMITTED BY:

_____ Contractor’s Signature	_____ Date
_____ Contractor’s Name	_____ Business Name
_____ Title	_____ Address (Street/PO Box)
_____ Phone Email	_____ City State Zip

Certification of Compliance with Wage Payment Statutes

The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date June 5, 2024 the bidder is not a “willful” violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries or through a civil judgment entered by a court of limited or general jurisdiction. I declare under penalty of perjury under the laws of the State of Washington that the foregoing is true and correct.

Bidder’s Business Name

Signature of Authorized Official*

Printed Name

Title

Date

City

State or country

Check One:

Sole Proprietorship Partnership Joint Venture Corporation

State of Incorporation, or if not a corporation, State where business entity was formed:

If a co-partnership, give firm name under which business is transacted:

** If a corporation, proposal must be executed in the corporate name by the president or vice-president (or any other corporate officer accompanied by evidence of authority to sign). If a co-partnership, proposal must be executed by a partner.*

END, BIDDER’S PROPOSAL FORM

NAKATA SLIDE STAIRCASE #1904

FAITHFUL PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENT

That we, _____, as Principal, and _____, as Surety, are held and firmly bound to the Bainbridge Island Metropolitan Park and Recreation District of Bainbridge Island, Washington, a municipal corporation ["DISTRICT"] in the sum of _____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, by these present.

The condition of the above obligation is such that, whereas said Principal has been awarded and is about to enter into the annexed contract, with the DISTRICT

_____ and to which reference is hereby made for all particulars, and is required by DISTRICT to give this bond in connection with the execution of said contract;

NOW THEREFORE, if said Principal as Contractor under said contract fails to perform all of the covenants, terms, conditions and stipulations of said contract on his or its part to be done and performed at the times and in the manner specified therein, or if said Principal shall fail to pay all of his subcontractors, suppliers, material men, and laborers on said work, or if all materials used and workmanship employed in the performance of the contract shall not be free from defects, or if any defects should appear therein with a period of one year from the date of acceptance by DISTRICT of the work under the contract and the said Principal and Contractor shall fail to repair, replace and correct such defects at his or its own expense and to the satisfaction of the Owner within thirty (30) days after notice thereof by DISTRICT, said Principal and Surety will pay the DISTRICT the amount of all its loss, cost, expense, damages and liability on account of any and all of the foregoing, not exceeding, however, the sum set forth above, and in case suit is brought upon this bond said Surety shall also pay a reasonable attorney's fee to be fixed by the court.

The Said Principal and Surety agree that any change, extension of time, alterations or additions to said contract or work or materials required thereunder shall not in any manner release either the Principal or the Surety from the obligations of this bond; and said Surety hereby waives notice of any such change, extension of time, alteration or additions to said contact or performance required thereunder.

IN WITNESS WHEREOF, the Principal and the Surety have executed this instrument in duplicate this _____ day of _____ 2024.

Surety

By: _____
Its _____

Principal

By: _____
Its _____

RETAINAGE BOND

KNOW ALL MEN BY THESE PRESENT

That we, _____, as Principal, and _____, as Surety, are jointly and severally held and firmly bound to the Bainbridge Island Metropolitan Park and Recreation District, Washington, a municipal corporation ["DISTRICT"] and are similarly held and bound unto the beneficiaries of the trust fund created by RCW 60.28 as their heirs, executors, administrators, successors and assigns, in the penal sum of _____ Dollars (\$ _____), lawful money of the United States of America, plus 5% of any increase in the contract amount that have occurred or may occur due to change orders, increases in the quantities or the addition of any new item of work.

WHEREAS, on the _____ day of _____, 2024, the said Principal executed Contract No. _____, with the DISTRICT for _____.

WHEREAS, said contract and RCW 60.28 requires the DISTRICT to withhold from the Principal the sum of 5% of monies earned by the Contractor on estimates during the progress of construction, hereinafter referred to as earned retained funds.

AND NOW WHEREAS, Principal has requested that the DISTRICT not retain any future earned retained funds and that they release all of a portion of the current amount of earned retained funds as allowed under RCW 60.28.

NOW THEREFORE, the condition of this obligation is such that if the Principal shall use the earned retained funds which will not be retained or shall use such funds which are now being released, for the trust fund purposes of RCW 60.28, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

IN WITNESS WHEREOF, the Principal and the Surety have caused these presents to be duly signed and sealed this _____ day of _____, 2024.

Surety

By: _____
Its _____

Principal

By: _____
Its _____

BIDDER’S BOND

(Not necessary when certified or cashier’s check accompanies bid)

We, the undersigned principal and surety, and our heirs, executors, administrators, successors and assigns, are jointly and severally held and firmly bound to the Bainbridge Island Metropolitan Park and Recreation District of Bainbridge Island, Washington, a municipal corporation [“DISTRICT”], in the principal sum

of _____

(\$ _____), to be paid and forfeited to the District if the bid of the

undersigned principal for _____

under the project entitled _____

shall be accepted and the proposed Contract awarded to said principal, and said principal shall fail or refuse to execute the Agreement in accordance with said bid as accepted and to furnish the bonds required in connection therewith within the time and form required. Otherwise, this obligation to be void.

WITNESS our hands this _____ day of _____ 2024.

Principal

By:

Title

Surety

SEAL

By:

Attorney-in-Fact

A notarial certificate of attorney-in-fact and seal of surety must be attached. If executed by an attorney-in-fact, proof of current authority must be attached.

INVITATION TO BID – SMALL WORKS ROSTER PROJECT #3010

BAINBRIDGE ISLAND METROPOLITAN PARK AND RECREATION DISTRICT

AGREEMENT FOR CONSTRUCTION SERVICES

This agreement is entered into the date below written between the BAINBRIDGE ISLAND METROPOLITAN PARK AND RECREATION DISTRICT, a Washington special purpose district (the “District”), and _____, referred to as “Contractor” for the project **SAKAI PARK TENNIS COURTS #3010**

- 1) Services Rendered by Contractor: Contractor shall provide the professional services as defined in this Agreement and as necessary to accomplish the Scope of the Services. Contractor shall furnish all services, labor and related equipment to conduct and complete the work, except as specifically noted otherwise in this agreement.

- 2) Terms of Payment:
 - A) Payment. The District shall pay Contractor for cost reimbursable services: (check one)
 Hourly, plus actual expenses, in accordance with Attachment A, but not more than a total of _____;
 Fixed Sum: a total amount of \$_____ (see attachment A)
 Other: _____.

 - B) Invoicing. Contractor shall submit monthly invoices for services performed in a previous calendar month in a format acceptable to the District. Each project and each task with a project shall be the subject of a separate invoice. Contractor shall maintain time and expense records according to industry standards and provide them to the District upon request.

 - C) Payments to Contractor. All invoices shall be paid by mailing a check within 60 days of receipt of a proper invoice and W-9 form. Checks will be mailed to address indicated on W-9 submitted by Contractor.

 - D) Final Payment. Final payment of any balances will be made upon completion of the Scope of Service (See Attachment A) and receipt of all deliverables and all project- related documents and data that are required under this Agreement.

 - E) Satisfaction of Scope of Services. If the services rendered do not meet the requirements of this Agreement, Contractor shall timely correct or modify the work to comply with this Agreement. The District may withhold payment for such work until it meets the requirements of the Agreement. Satisfaction of services will be the degree of skill and diligence normally employed by professional engineers and consultants performing the same or similar services.

- 3) Discrimination and Compliance with Laws:
 - A) Contractor agrees not to discriminate against any employee or any other person in the performance of the Agreement because of race, creed, color, national origin, marital status, sex,

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age, veteran's status, disability or other circumstances prohibited under federal state or local laws, except for a bona fide occupational qualification.

B) *Contractor* shall comply with all federal, state and local laws and ordinances applicable to the work to be done under the Agreement. Violation of Paragraph 3 shall be a material breach of this Agreement and grounds for cancellation, termination or suspension of the District.

4) Term and Termination of Agreement:

A) This Agreement shall become effective upon execution by both parties and shall continue in full force until _____ unless sooner terminated by either party pursuant to Section 4(B) below.

B) This Agreement may be terminated by either party without cause upon 30-days written notice, in which event all finished or unfinished documents, reports, data or other material or work of pursuant to this Agreement shall be submitted to the District, and *Contractor* shall be entitled to just equitable compensation at the rate set forth in Paragraph 2 for any satisfactory work completed prior to the date of termination.

5) Intellectual Property:

A) Any and all intellectual property developed in the course of the Scope of Services is a direct result of the Agreement whose rights are controlled by the District.

B) Ownership of intellectual property developed solely as a result of the Agreement is owned by the District, this pertains to any digitized material, technical data, software, reports and permits.

6) General Administration:

A) District Authorization and its Designee. The Director of the District, or his designee, shall be the District's representative and shall oversee and approve all services to be performed, coordinate all communications and review and approve all invoices under this Agreement.

B) Independent Contractor. Contractor's relationship with District is that of an independent contractor. Contractor is free to engage in other independent contracting activities, provided that such activities do not conflict with or interfere with Contractor's duties hereunder. Contractor has the sole right to control and direct the means, manner and method by which the services required by this Agreement will be performed. Contractor is in business for itself and is not economically dependent on District. Nothing in this Agreement, or in the business dealings or relationship between the parties, shall be construed to create the relationship of employee and employer, partners or joint ventures. Contractor warrants to District that it will pay all applicable taxes and withholdings, and will make all filings with governmental entities, as required as a result of execution of this Agreement and compensation received by it hereunder. Contractor agrees to defend, indemnify and hold District harmless from and against any and all claims, actions, penalties, fees, assessments, liabilities and expenses (including reasonable attorney fees) arising out of or relating in way whatsoever to Contractor's breach of the warranty in this Section 6.B

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- C) Lower Tier Subcontracts. *Contractor* shall not sublet or assign any of the work covered by the Agreement, except with the prior written approval of the District and in strict compliance with the terms, provisions, and conditions of the Agreement. *Contractor* will bind all Lower Tier Subconsultants to the Provisions of this Agreement.
 - D) No Additional Relationship or Burden Implied. Neither this Agreement nor any Lower Tier subcontract will create any contractual relationship between any Lower Tier Subconsultant and the District nor any liability onto the District from any Lower Tier Subconsultant.
 - E) Access to and Retention of Records. Contractor will maintain project and accounting records for required six (6) year WA State retention period in accordance with RCW 40.14.070, and make them available for examination by the District upon request. Records will also be made available to the District to fulfill any public record request received by the District. (See Section 9: Public Records Act). If Contractor does not want to retain the project and accounting records for the six (6) year length of time stipulated in the WA State Retention Schedule, Contractor will turn the records over to the District who will assume responsibility for retaining them for the required length of time.
 - F) Notice of Delay. The time schedule for the performance of services set forth under this Agreement is based on *Contractor's* anticipation of the orderly and continuous progress of the project. If *Contractor* is delayed in the performance of services by conditions that are beyond its control, *Contractor* shall notify the District in writing of the cause of the delay and the amount of the delay anticipated. Such notice shall be delivered to the District within five (5) days of the time *Contractor* is aware of the delay.
 - G) Permits, Licenses and Fees: *Owner* will obtain and pay for all permits and licenses required by law that are associated with *Contractor's* performance of the Scope of Services and will give all necessary notices.
 - H) **The GENERAL CONDITIONS FOR BAINBRIDGE ISLAND METROPOLITAN PARK AND RECREATION DISTRICT PUBLIC WORKS PROJECTS ("General Conditions") are incorporated herein by this reference as if fully set forth herein.** If there is a conflict between this Agreement and the General Conditions, the General Conditions control.
- 7) Insurance: *Contractor* will maintain throughout this Agreement the following insurance and will submit certificates verifying such to the District:
- A) Worker's compensation insurance as required by Washington State.
 - B) Comprehensive automobile and vehicle liability insurance covering claims for injuries to members of the public and damages to property of others arising from the use of motor vehicles, including onsite and offsite operations, and owned, or non-owned or hired vehicles, with \$2,000,000 combined single limits.

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- C) Comprehensive general liability insurance covering claims for injuries arising out of claims for injuries arising out of any negligent act or omission of *Contractor* or of any of its employees, agents, or subcontractors with \$2,000,000 per occurrence/\$4,000,000 aggregate.
- D) All insurance certificates will state that the insurance carrier will give the District thirty (30) days' notice of any cancelation of the policies. Excepting the Worker's Compensation Insurance secured by the *Contractor*, the District will be named on all policies as an additional insured. The *Contractor* shall furnish the District with verification of insurance and endorsements required by the agreement. The District reserves the right to require complete, certified copies of all required insurance policies at any time.

8) Hold Harmless:

The *Contractor* shall protect, defend, indemnify and save harmless District, its officers, employees and agents from any and all costs, claims, judgments, awards of damages, and expenses (including reasonable attorney fees) arising out of or in any way resulting from (i) the negligent acts or omissions, or intentional misconduct, of *Contractor*, its officers, employees and agents in performing this Agreement and/or (ii) material breach of this Agreement by *Contractor*.

Should a court of competent jurisdiction determine that this Agreement is subject to RCW 4.24.115, then, in the event of liability for damages arising out of bodily injury to persons or damages to property caused by or resulting from the concurrent negligence of the *Contractor* and the District, its officers, officials, employees, and volunteers, the *Contractor's* liability hereunder shall be only to the extent of the *Contractor's* negligence. It is further specifically and expressly understood that the indemnification provided herein constitutes the *Contractor's* waiver of immunity under Industrial Insurance, Title 51 RCW, solely for the purposes of this indemnification. This waiver has been mutually negotiated by the parties.

The District shall protect, defend, indemnify and save harmless *Contractor*, its officers, employees and agents from any and all costs, claims, judgments and awards of damages, and expenses (including reasonable attorney fees) arising out of or in any way resulting from (i) the grossly negligent acts or omissions, or intentional misconduct, of the District, its officers, employees or agents in performing this Agreement and/or (ii) material breach of this Agreement by the District. The provisions of this Section 8 shall survive the expiration or termination of this Agreement.

9) Public Records Act

- A) This Agreement and all public records associated with this Agreement shall be available for inspection and copying by the public where required by the Public Records Act, Chapter 42.56 RCW (the "Act"). To the extent that public records then in the custody of the *Contractor* are needed for the Park District to respond to a request under the Act, as determined by the Park District, the *Contractor* agrees to make them promptly available to the Park District.
- B) If the *Contractor* considers any portion of any record provided to the Park District under this Agreement, whether in electronic or hard copy form, to be protected from disclosure under law, the *Contractor* shall clearly identify any specific information that it claims to be confidential or proprietary. If the Park District receives a request under the Act to inspect or copy the information so identified by the *Contractor* and the Park

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District determines that release of the information is required by the Act or otherwise appropriate, the Park District's sole obligations shall be to notify the Contractor (a) of the request and (b) of the date that such information will be released to the requester unless the Contractor obtains a court order to enjoin that disclosure pursuant to RCW 42.56.540. If the Contractor fails to timely obtain a court order enjoining disclosure, the Park District will release the requested information on the date specified.

- C) The Park District has, and by this section assumes, no obligation on behalf of the Contractor to claim any exemption from disclosure under the Act. The Park District shall not be liable to the Contractor for releasing records not clearly identified by the Contractor as confidential or proprietary. The Park District shall not be liable to the Contractor for any records that the Park District releases in compliance with this section or in compliance with an order of a court of competent jurisdiction.

10) General Provisions:

- A) **Waivers.** No waiver by either party of any default by the other party in the performance of any provision of this Agreement will operate as, or be construed as, a waiver of any future default, whether like or different in character.
- B) **Force Majeure.** Neither party to this Agreement will be liable to the other party for delays in performing the Scope of Services, or for the direct or indirect costs resulting from such delays, that may result from labor strikes, riots, war, acts of governmental catastrophe, or any other cause beyond the reasonable control or contemplation of either party.
- C) **Authorization to Proceed.** Execution of the Agreement by the District will be authorization for *Contractor* to proceed with the Scope of Services, unless otherwise provided for in this Agreement.
- D) **No Third- Party Beneficiaries.** This Agreement gives no rights or benefits to anyone other than *Contractor* and the District and has no third-party beneficiaries.
- E) **Dispute Resolution.** In the event of a dispute between the parties arising under or relating in any way whatsoever to this Agreement, the parties shall attempt to resolve it through good faith negotiation. If the dispute is not resolved through such negotiation, the parties shall attempt to resolve it through mediation in Kitsap County, Washington, with a neutral, third-party mediator mutually agreed upon by the parties, with the costs of mediation shared equally by the parties. If the dispute is not resolved through mediation, then upon written demand by one of the parties it shall be referred to an arbitrator mutually agreed upon by the parties. The arbitration process shall be conducted in accordance with RCW 7.04A, except as modified herein. The arbitration hearing shall be held in Kitsap County, Washington. All remedies, legal and equitable, available in court shall also be available in arbitration. The arbitrator's decision shall be final and binding, and judgment may be entered thereon in any court of competent jurisdiction. In any dispute arising out of this Agreement, including arbitration, the substantially prevailing party shall be entitled to recover its reasonable attorney fees and costs from the other party. This Agreement shall be governed

INVITATION TO BID – SMALL WORKS ROSTER PROJECT #3010

by and construed in accordance with the laws of the State of Washington, without regard to conflict of law principles thereof. Venue of any dispute shall lie exclusively in Kitsap County.

- F) Contractor may not assign its rights or obligations arising under this Agreement without the prior written consent of District.
- G) If any provision of this Agreement shall be determined by a court of competent jurisdiction to be unenforceable, the remaining provisions of this Agreement are severable, and the unenforceability of any single provision herein shall not affect the remaining provisions of this Agreement.
- H) Those provisions of this Agreement that have or could have effect after termination of this Agreement, which include, without limitation, dispute resolution and indemnification provisions, shall survive termination of this Agreement and be fully applicable and enforceable thereafter.
- I) This Agreement represents the entire agreement between the parties, supersedes all prior agreements and understandings, and may be changed only by written amendment executed by both parties. This Agreement may be executed in counterparts, and facsimile and pdf signatures shall be deemed the equivalent of original signatures for all purposes.

11) Attachments and Schedules:

The following attachments and schedules are hereby made a part of this Agreement:

Attachment A – Complete Bid Package & Bid Submitted

Accepted for the Bainbridge Island Metropolitan Park and Recreation District

BY: _____

Title: _____

Date: _____

Accepted for *CONTRACTOR*

BY: _____

Title: _____

Date: _____

BID SPECIFICATIONS SAKAI PARK TENNIS COURTS

DIVISION 2 – EARTHWORK

2-01 Clearing, Grubbing, and Roadside Cleanup

2-01.1 Description

Clearing and grubbing on this project shall be performed within the following limits:

Within the construction area of the Courts, where indicated on the Plans, see sheet C2

1. The Contractor shall coordinate with the District to protect and leave in place those trees, landscaping, or other items specifically identified to be saved.
2. Where such is required, the Contractor shall flag those trees, shrubs, etc., to identify to his workforce they need to be saved.
3. If the Contractor removes or damages any existing vegetation, landscaping item or utility systems not designated for removal because of any act, omission, neglect or misconduct in the execution of the work, such items shall be restored or replaced in kind by the Contractor to a condition similar or equal to that existing before such damage or removal occurred.
4. Contractor is responsible for the removal and disposal of all woody debris.

2-01.2 Construction Requirements

2-01.2(1) Roadside Cleanup

Remove grass/trees and other organic matter where designated by the Engineer including but not limited to: trees, concrete curb and gutters, sidewalks, pedestrian pathways, driveway entrances, utility castings and roadway cracks.

Division 6 – Structures

6-01 Shaping, Filling, and Compaction

1. Each layer of base fill material shall be compacted to at least 95 percent of maximum density before the next succeeding layer of surfacing or pavement is placed.
2. Material specifications as indicated in the engineered design.
3. Completed fill density will be verified by a proctor provided by the contractor.

6-02 Hot Mix Asphalt Requirements

1. Slope Requirement

All excavating, filling and grading requirements and compacting work of the subbase should be performed so that the finished subgrade is 4" -6" above the surrounding ground and slopes not less than 0.83% (1:120) and not more than 1% (1:100). Each court must slope on a true plane, from north to south as shown on the drawings (see Drainage Plan) for good drainage and water runoff.

6-02 (2). Perimeter Edging

A. Apron

The apron detail is shown on sheet C-3 and provides a 1' apron around the court. This additional footage helps prevent vegetation intrusion from the perimeter, facilitates landscape maintenance and adds to the overall cosmetics. Fencing should be installed after paving and prior to surfacing.

6-02 (3). Aggregate Base Course

A. Material

A base course of bituminous concrete mixture; crushed aggregate; processed/recycled asphalt or processed/recycled concrete should be installed over the subgrade.

B. Spreading and Compacting

The material should be spread by methods and in a manner that produces a uniform density and thickness. The material thus spread should be compacted to 95% minimum with equipment that provides uniform density.

C. Tolerances

Surface of the base course as compacted should not vary more than 1/2" from the true plane of the court.

6-02 (4). Intermediate Pavement Course

A leveling course of a hot plant mix having a maximum aggregate size of 3/8" to 3/4" in accordance with specifications of the state's Department of Transportation and/or the Asphalt Institute should be constructed over the base course to a compacted thickness of not less than 1 1/2".

This hot plant mix should be spread and compacted by methods and in a manner that produces a uniform density and thickness. The finished intermediate course should not vary more than 1/4" in 10', when measured in any direction.

6-03 Asphaltic Surface Course

A. General Description

A surface course of a hot plant mix having a maximum aggregate size of 3/8" and a minimum aggregate size of 1/4" should be constructed over the hot mix intermediate course to a compacted thickness of not less than 1".*

Suggested Mix Design:

Screen % Passing

1/2 100

3/8 90-100

#4 55-85

#8 32-67

#50 7-23

#200 2-10

*See sheet C-3 (02) for the asphalt detail for the courts and S-1 detail for the road approach details at the Madison Ave entry.

Liquid Asphalt Bitumen: Minimum 5.5% by weight.

Aggregate Type: Crushed stone, gravel, shale, limestone, etc. Foreign materials, i.e., pyrite, clay, ferrous compounds, dirt and organic material are not acceptable.

Cure Time: Minimum 14 days before application of playing surface.

Voids Content: Minimum as specified by the Department of Transportation or State Highways Department, but in no case should void content exceed 7%.

B. Spreading and Compacting

This hot plant mix should be spread and compacted by methods and in a manner that produces a uniform density and thickness.

C. Surface Tolerance

The finished surface of the court should not vary more than 1/8" in 10' when measured in any direction.6-03.3 Concrete Construction.

6-04 Cementitious Materials Requirements

1. This work consists of the construction of all structures and their parts made of Portland cement concrete with or without reinforcement, including ADA Parking and Sidewalk slabs.
2. Any part of a structure to be made of other materials shall be built as these specifications require elsewhere.

6-4.1 Cementitious Materials

1. Materials shall meet the requirements of the following sections. Cementitious Material SP 6-02.2(1) Normal Weight Aggregate SP 6-02.2(2), Standard Specification 9-03
2. Water SP 6-02.2(3)
3. Admixtures SP 6-02.2(4)
4. Curing Materials SP 6-02.2(5)
5. Reinforcement and Accessories SP 6-02.2(6)
6. Metal Key Joint System SP 6-02.2(7)
7. Vapor Retarder SP 6-02.2(8)

6-04.2(1) Cementitious Material:

1. Use the following cementitious materials, of the same type, brand, and source, throughout
2. the project:
3. Portland Cement: ASTM C 150, Type I/II
4. Fly Ash: ASTM C618, Class F
5. Silica Fume: ASTM C 1240, amorphous silica

6-04.2(2) Normal Weight Aggregate:

ASTM C 33, uniformly graded, provided from a single source and in compliance with Standard Specification Section 9-03.

6-0.2(3) Water:

Potable, complying with ASTM C 94

6-04.2(4) Admixtures:

General:

1. Admixtures certified by manufacturer to contain no more than 0.1 percent water soluble chloride ions by mass of cementitious material and to be compatible with other admixtures and cementitious materials. Do not use admixtures containing calcium chloride.
2. Air Entraining Admixture: ASTM C 260
3. Water-Reducing Admixture: ASTM C 494, Type A
4. High-Range, Water-Reducing Admixture: ASTM C 494, Type F
5. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E
6. Water-Reducing and Retarding Admixture: ASTM C 494, Type D

6-0.2(5) Curing Materials:

1. Absorptive Cover: AASHTO M 182, Class2, burlap cloth made from jute or kenaf, weighing approximately 9 ounces per square yard dry.
2. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene
3. sheet.
4. Water: Potable, complying with ASTM C 94

6-0342(6) Reinforcement and Accessories:

1. Reinforcement Bars: ASTM A 615 Grade 60, deformed.
2. Remesh: 10g
3. Tie Wire: Comply with CRSI specifications.

6-04.3 Construction Requirements

6-04.3(1) Concrete Specifications:

Prepare design mixes for each type and strength of concrete determined by either laboratory trial mix or field test databases, or both, according to ACI 301 and in accordance with the following:

Compressive Strength, for the ADA Parking Slab and Sidewalk:

1. 4000 psi at 28 days.
2. Maximum Water-Cementitious Materials Ratio: 0.45
3. Air Content: Add air entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content of 4.5 percent +/- 1 percent for all concrete placed above the ground line.

Cementitious Materials:

Limit percentage, by weight, of cementitious materials other than

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Portland cement in concrete as follows:

1. Fly Ash: 25 percent
2. Combined Fly Ash and Pozzolan: 20 percent.
3. Ground Granulated Blast-Furnace Slag: 50 percent
4. Portland cement minimum, with fly ash or pozzolan not exceeding 20 percent.
5. Silica Fume: 10 percent
6. Combined Fly Ash, Pozzolans, and Silica Fume: 30 percent with fly ash or pozzolans not exceeding 20 percent and silica fume not exceeding 10 percent.
7. Combined Fly Ash or Pozzolans, Ground Granulated Blast Furnace Slag and Silica Fume: 50 percent
8. Portland cement minimum, with fly ash or pozzolans not exceeding 20 percent and silica fume not exceeding 10 percent.

Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of Cement Admixtures:

1. Use admixtures according to manufacturer's written instructions Adjustment to Concrete Mixes:
2. Mix Design adjustments may be requested by Contractor when characteristics of materials, job conditions, weather, test results or other circumstances warrant, as accepted by the Engineer.
3. Laboratory test data for revised mix design and strength results shall be submitted to and accepted by Engineer before using in work.

Submittals:

1. Submit concrete mix designs to the Engineer for approval.
2. The mix design submittal shall also include test results no older than one year showing that the Aggregates do not contain Deleterious Substances in accordance with Section 9-03, and also shall include manufacturer's data for all admixtures.

6-04.3(2)B Reinforcement

General:

1. Comply with CRSI "Manual of Standard Practice" for placing reinforcement.
2. Clean reinforcement of loose rust and mill scale, ice and other foreign materials that would reduce bond to concrete.
3. Accurately position, support, and secure reinforcement against displacement. Support and locate reinforcement to maintain minimum concrete cover.
4. Do not tack weld reinforcement bars.
5. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
6. Do not displace, puncture or damage vapor barrier except to secure metal key joint system with stakes in accordance with manufacturer's installation instructions.
7. Tape any resulting tears or rips in vapor barrier with approved tape.
8. Do not use masonry blocks, concrete, or similar means to support and position reinforcement for concrete slabs-on-grade.

6-04.3(3) Concrete Mixing:

6-04.3(3)A Ready Mixed Concrete:

Measure, batch, mix and deliver concrete according to ASTM C 94 and furnish batch ticket information to the Engineer.

1. When air temperature is between 85 and 90 degrees Fahrenheit, reduce mixing and delivery time from 90 minutes to 75 minutes; when air temperature is above 90 degrees F, reduce mixing and delivery time to 60 minutes.

6-04.3(5) Concrete Placement:

6-04.3(5)A Prior to Placement:

Before placing concrete, verify that installation of formwork, reinforcement, vapor retarders, metal keyed control joint system and embedded items is complete and that required inspections have been performed.

6-04.3(5)B Adding of Water

Do not add water to concrete during delivery, at Project site, or during placement. Do not add water to concrete after adding high-range water-reducing admixtures to mix.

6-04.3(5)C Air Content

Adjust mix as required to maintain specified air content at the point of discharge.

6-04.3(5)E Slabs:

Deposit and consolidate concrete for slabs in a continuous operation until placement of a panel or section is complete.

1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
2. Maintain reinforcement in position during concrete placement.
3. Screed surfaces uniformly.
4. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, free of humps and hollows, before excess moisture or bleed water appears on the surface. Do not further disturb slab surfaces before starting finishing operations.
5. All concrete surfaces will be finished with a medium broom textured surface.

6-04.3(5)F Cold Weather Placement:

Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures:

1. When air temperature has fallen to or is expected to fall below 40 degrees Fahrenheit, uniformly heat water and aggregates before mixing to obtain a concrete mixture temperature of not less than 50 degrees F and not more than 80 degrees F at the point of placement.
2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen sub grade or on sub grade containing frozen materials.

3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators, unless otherwise specified and approved in mix designs.
4. Prior to placing concrete in cold weather, the Contractor shall submit a written procedure for cold weather concreting. The procedure shall detail how the Contractor will adequately cure the concrete and prevent the concrete temperature from falling below the minimum temperature. Extra protection shall be provided for areas especially vulnerable to freezing (such as exposed top surfaces, corners and edges, thin sections, and concrete placed into steel forms). Concrete placement will only be allowed if the Contractor's cold weather protection plan has been accepted by the Engineer.
5. Prior to concrete placement, the Contractor shall review the 7-day temperature predictions for the job site from the Western Region Headquarters of the National Weather Service (www.wrh.noaa.gov). When temperatures below 35°F are predicted, the Contractor shall:
 - a. Install temperature data loggers in each concrete pour. One data logger shall be installed for every cubic 100 yards of concrete placed. Data loggers shall be installed at locations directed by the Engineer, and shall be placed 1.5 inches from the face of concrete.
 - b. Immediately after concrete placement, temperature data loggers shall be installed on the concrete surface at locations directed by the Engineer. One data logger shall be installed for every 100 cubic yards of concrete placed.
 - c. The data loggers shall be operated continuously during the Cold Weather Protection Period.
 - d. Temperatures shall be measured, recorded and stored a minimum of every 30 minutes.
 - e. Temperature data shall be submitted to the Engineer as a Type 1 Working Drawing within three days following the end of the Cold Weather Protection Period.
 - f. Cold Weather Protection Period - A period of time 7 days from the day of concrete placement or the duration of the cure period, whichever is longer.
 - g. If the concrete temperature falls below 40°F during the first seven days of the Cold Weather Protection Period, no curing time is awarded for that day and the Cold Weather Protection Period is extended for one additional day.
 - h. If the concrete temperature falls below 35°F during Cold Weather Protection Period, the concrete may be rejected by the Engineer.

6-04.3(5)G Hot Weather Placement:

Place concrete according to recommendations in ACI 305R and as follows, when hot weather conditions exist.

1. Cool ingredients before mixing to maintain concrete temperature below 90 degrees F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is calculated to total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.
2. Cover steel reinforcement with water-soaked burlap so steel temperature will not exceed ambient air temperature immediately before embedding in concrete.
3. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade moisture uniform without standing water, soft spots, or dry areas.

3. The Contractor shall provide concrete within the specified temperature limits.
4. Cooling of the coarse aggregate piles by sprinkling with water is permitted provided the moisture content is monitored and the mixing water is adjusted for the free water in the aggregate.
5. Shading or cooling aggregate piles (sprinkling of fine aggregate piles with water is not allowed).
6. If sprinkling of the coarse aggregates is to be used, the piles moisture content shall be monitored and the mixing water adjusted for the free water in the aggregate.
7. In addition, when removing the coarse aggregate, it shall be removed from at least 1 foot above the bottom of the pile.
8. Refrigerating mixing water; or replacing all or part of the mixing water with crushed ice, provided the ice is completely melted by placing time.
9. If air temperature exceeds 90°F, the Contractor shall use water spray or other accepted methods to cool all concrete-contact surfaces to less than 90°F. These surfaces include forms, reinforcing steel, steel beam flanges, and any others that touch the mix.

6-04.3(5)H Finishing of Slabs:

1. General: Comply with recommendations in ACI 302.1R for screeding, re-straightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
2. Medium textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch deep with a stiff-bristled broom, north to south. Use the same type and manufacture of broom for all concrete surfaces to provide a consistent appearance.

6-04.3(5)I Concrete Protection and Curing:

1. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold weather protection and with recommendations in ACI 305R for hot-weather protection during curing.
2. Formed Surfaces: Cure formed concrete surfaces, including underside of beams, supported slabs, and other similar surfaces. If forms remain during curing period, moist cure after loosening forms. If removing forms before end of the curing period, continue curing by one or a combination of the methods specified in paragraph 3 below.
3. Unformed Surfaces: Begin curing immediately after finishing concrete. Cure unformed surfaces, including floors and slabs, concrete floor toppings, and other surfaces, by one or a combination of the following methods:
 - a. Moisture Curing: Keep surfaces continuously moist for not less than seven days with either of the following materials:
 - I. Water
 - II. Continuous water-fog spray
 - III. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
 - IV. Curing Period: Concrete shall be cured for a minimum of 28 days.

6-04.3(5)J Concrete Surface Construction Tolerances and Repairs:

1. Slope of slab shall be in accordance with the contract drawings. Surface variation shall not exceed 1/8" in 10 feet when measured in any direction with a straight edge

6-04.3(5)K Field Quality Control:

1. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to sample materials, perform tests, and submit test reports during concrete placement. Sampling and testing for quality control may include those specified in this section.
2. Testing Services: Testing of composite samples of fresh concrete obtained according to ASTM C 172 shall be performed according to the following requirements.
 - a. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mix exceeding 5 cubic yards, but less than 25 cubic yards, plus one set for each additional 50 cubic yards or fraction thereof:
 - b. When frequency of testing will provide fewer than five compressive strength tests for each concrete mix, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used.
- 3 Slump: ASTM C 143; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.
4. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each day's pour of each concrete mix.
5. Concrete Temperature: ASTM C 1064; one test hourly when air temperature is 40 degrees F and below and when 80 degrees F and above, and one test for each composite sample.
6. Compression Test Specimens: ASTM C 31; cast and laboratory cure one set of four standard cylinder specimens for each composite sample; cast and field cure one set of standard cylinder specimens for each composite sample.
7. Compressive-Strength Tests: ASTM C 39; test one laboratory-cured specimen at 7 days, two at 28 days.
8. When strength of field-cured cylinders is less than 85 percent of companion laboratory cured cylinders, Contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.
9. Strength of each concrete mix will be satisfactory if every average of any three consecutive compressive-strength tests that equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
10. Test results shall be reported in writing to Owner and Contractor within 48 hours of testing. Reports of compressive strength tests shall contain project identification, date of placement, name of testing agency, location of concrete batch in work, design compressive strength, concrete mix proportions and materials, compressive breaking strength, type of break for both 7-day and 28-day tests, and air content.
11. Nondestructive testing: Impact hammer, sonoscope, or another nondestructive device may be permitted by the Engineer but will not be used as the sole basis for approval or rejection of concrete.
12. Additional Tests: Testing and inspecting agency shall perform additional tests of concrete when test results indicate that slump, air entrainment, compressive strength or other requirements have not been met, as directed by the Engineer. Testing and inspecting

agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42 or by other methods as directed by Architect.

13. Slab Leveling and Flatness Testing: Testing and inspecting agency shall test each bay of each floor for conformance to specified tolerance in accordance with ASTM E 1155.

6-04.4 Measurement

1. Except as noted below, all classes of concrete shall be measured in place by the cubic yard,
2. to the neat lines of the structures as shown on the plans.
3. The Contracting agency will pay for no concrete placed below the established elevation of
4. the bottom of any footing or seal.
5. All reinforcing steel will be measured by the computed weight of all steel required by the
6. Plans. The weight of No. 3 reinforcement bar, nominal diameter 0.375 inches shall be
7. computed at a unit weight of 0.376 pounds per linear foot.
8. Metal key joint system shall be measured by linear foot and shall include stakes, clips and
9. other accessories as required by the manufacturer’s installation instructions.

6-04.5 Payment

See bid form.

Division 7 – Drainage Structures, Storm Sewers, Sanitary Sewers, Water Mains, Conduits, Etc.

7-05 Inlets and Catch Basins

7-05.1 Description

This Work consists of constructing or installing inlets and catch basins and connecting to existing Structures of the types and sizes designated in accordance with the Plans, these Specifications, and the Standard Plans, in conformity with the lines and grades staked.

7-05.2 Materials

Materials shall meet the requirements of the following sections:

- | | |
|----------------------------------|--------|
| 1. Concrete | 6-02 |
| 2. Crushed Surfacing Base Course | 9-03 |
| 3. Gravel Backfill for Drywells | 7-05.3 |
| 4. Rubber Gaskets | 7-08.3 |
| 5. Flexible Plastic Gaskets | 7-05.3 |
| 6. Metal Covers | 9-05.3 |
| 7. Grate Inlets and Drop Inlets | 7-05.3 |
| 8. Precast Concrete Manhole | 7-05.3 |
| 9. Precast Concrete Catch Basins | 7-05.3 |

10. Precast Concrete Inlets

7-05.3

7-05.3 Construction Requirements

The excavation for all manholes, inlets, and catch basins shall be sufficient to leave 1 foot in the clear between their outer surfaces and the earth bank.

1. The excavation for inlets and catch basins shall be in accordance with the Standard Plans.
2. The drywell and gravel backfill for drywell shall be completely encased in moderate survivability underground drainage geotextile in accordance with the Standard Plans.
3. During construction of the drywell, all necessary precautions shall be taken to prevent debris and eroded material from entering the drywell.
4. The cover or grating of a manhole, catch basin, or inlet shall not be grouted to final grade until the final elevation of the pavement, gutter, ditch, or sidewalk in which it is to be placed has been established, and until permission thereafter is given by the Engineer to grout the cover or grating in place.
5. Covers shall be seated properly to prevent rocking.
6. Leveling and adjustment devices that do not modify the structural integrity of the metal frame, grate or cover, and do not void the originating foundry's compliance to these specifications and warranty are allowed.
7. Approved leveling devices are listed in the Qualified Products List.
8. Leveling and adjusting devices that interfere with the backfilling, backfill density, grouting and asphalt density will not be allowed.
9. The hardware for leveling and adjusting devices shall be completely removed when specified by the Engineer.
10. The channels in manholes shall conform accurately to the sewer grade.
11. Ladder rungs shall be grouted in the precast concrete walls. Rungs shall be uniformly spaced at 12 inches and be vertically aligned.
12. In the event any pipe enters the manhole through the precast concrete units, the Contractor shall make the necessary cut through the manhole wall and steel mesh.
13. The steel shall be cut flush with the face of the concrete and shall be cut in such a manner that it will not loosen the reinforcement in the manhole wall.
14. The ends of all pipes shall be trimmed flush with the inside walls.
15. Rubber gaskets or flexible plastic gaskets may be used in tongue and groove joints of precast units.
16. Joints between precast manhole units used for sanitary sewers shall be rubber gasketed.
17. All other joints and all openings cut through the walls shall be grouted and watertight. Mortar shall conform to the requirements of the civil plan.
18. If gaskets are used, handling of the precast units after the gasket has been affixed shall be done carefully to avoid disturbing or damaging the gasket or contaminating it with foreign material.
19. Care shall be exercised to attain proper alignment before the joints are entirely forced home.
20. During insertion of the tongue or spigot, the units shall be partially supported to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned.
21. Rigid pipes connecting to sanitary sewer manholes shall be provided with a flexible joint at a distance from the face of the manhole of not more than 1½ times the nominal pipe diameter or 18 inches, whichever is greater.

22. Flexible pipes connecting to sanitary sewer manholes shall be provided with an entry coupling or gasket approved by the Engineer.
23. No pipe joint in flexible pipe shall be placed within 10 feet of the manhole.
24. Backfilling around the Work will not be allowed until the concrete or mortar has thoroughly set.
25. Catch basins, manholes, and inlets shall be watertight.

26. Catch basin, grate inlet, and drop inlet connections to a sewer shall be so placed that the connecting pipe may be easily rodded over its entire length.
27. After the connections are made, the Contractor shall rod all inlet and outlet pipes. All connections that cannot be successfully rodded shall be removed and new connections made.
28. Backfilling of manholes, inlets, catch basins, and drywells shall be done in accordance with the provisions of the civil plan and these specifications.
29. Manholes, catch basins, inlets, and drywells shall be constructed on a compacted or undisturbed level foundation.
30. If the Contractor elects to use a separate cast-in-place base, the concrete shall be Class 4000.
31. Upon final acceptance of the Work, all manholes, catch basins, inlets, drywells, and other drainage Structures shall conform to the requirements of the Standard Plans except as approved by the Engineer.
32. Any shoring or extra excavation required shall meet the requirements of the civil plan.

7-05.3(1) Adjusting Manholes and Catch Basins to Grade

1. Where shown in the Plans or where directed by the Engineer, the existing manholes, catch basins, or inlets shall be adjusted to the grade as staked or otherwise designated by the Engineer.
2. The existing cast iron ring and cover on manholes and the catch basin and inlet frame and grate shall first be removed and thoroughly cleaned for reinstalling at the new elevation.
3. From that point, the existing Structure shall be raised or lowered to the required elevation.
4. The materials and method of construction shall conform to the requirements specified above, and the finished Structure shall conform to the requirements of the Standard Plans except as approved by the Engineer.

7-05.4 Measurement

1. Catch basins and inlets, will be measured per each.
2. Adjustment of manholes, catch basins, and inlets will be per each.
3. Structure excavation Class B and Structure excavation Class B including haul will be measured by the cubic yard.
4. Connections to existing drainage Structures will be measured per each.
5. Precast concrete drywell will be measured per each.

7-05.5 Payment

See Bid Form

7-08 General Pipe Installation Requirements

7-08.1 Description

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This Work includes installing culverts, storm sewers, and sanitary sewers. The Contractor shall also follow Section 7-02, 7-04, or 7-17 as it applies to the specific kind of Work.

7-08.2 Materials

- | | |
|--|------|
| 1. Gravel Backfill for Foundations | 9-03 |
| 2. Gravel Backfill for Pipe Zone Bedding | 9-03 |

7-08.3 Construction Requirements

7-08.3(1) Excavation and Preparation of Trench

7-08.3(1)A Trenches

1. The length of trench excavation in advance of pipe laying shall be kept to a minimum. Excavations shall either be closed up at the end of the day or protected.
2. The trench width, excavated depth, and grade as shown in the civil plans.
3. Trenches must be of sufficient width in the pipe zone to permit proper installation and bedding of the pipe and to provide the required compaction of backfill. Above the top of the pipe zone, the Contractor may excavate to any width.
4. All ledge rock, boulders, and stones shall be removed to provide a minimum of 6 inches clearance under all portions of the pipe.
5. Placement of bedding material shall precede the installation of all pipe.
 - a. This shall include necessary leveling of the native trench bottom or the top of the foundation material as well as placement and compaction of required bedding material to a uniform grade so that the entire length of pipe will be supported on a uniformly dense unyielding foundation.
6. When, after excavating to the foundation level, the material remaining in the trench bottom is determined to be unsuitable by the Engineer, excavation shall be continued to such additional depth and width as required by the Engineer.
7. Unsuitable foundation materials shall be disposed of at an approved site.
8. The trench foundation shall be backfilled to the bottom of the pipe zone with gravel backfill for foundations, gravel backfill for pipe zone bedding, or other suitable material, and compacted to form a uniformly dense, unyielding foundation.
9. All material excavated from trenches and piled adjacent to the trench shall be maintained so that the toe of the slope is at least 2 feet from the edge of the trench.
10. It shall be piled to cause a minimum of inconvenience to public travel, and provision shall be made for merging traffic where necessary.
11. Free access shall be provided to all fire hydrants, water valves, and meters; and clearance shall be left to enable free flow of storm water in gutters, conduits, or natural watercourses.
12. If any part of the excavated material meets the Specifications of Section 9-03.12(3), the Engineer may require that such material, in the quantity required, be selectively removed, stockpiled separately, and used as pipe bedding instead of quantities of gravel backfill for pipe zone bedding.
13. If material so stockpiled becomes contaminated, the Contractor shall furnish suitable material in an amount equal to that lost by contamination at no expense to the Contracting Agency.
14. All costs involved in storing, protecting, re-handling, and placing the material shall be included in other items of Work on the project.

15. Excavation for manholes and other Structures connected to the pipelines shall be sufficient to provide a minimum of 12 inches between their surfaces and the sides of the excavation.
16. The Contractor shall furnish, install, and operate all necessary equipment to keep excavations above the foundation level free from water during construction, and shall dewater and dispose of the water so as not to cause injury to public or private property or nuisance to the public.
17. Sufficient pumping equipment in good working condition shall be available at all times for all emergencies, including power outage, and shall have available at all times competent workers for the operation of the pumping equipment.
18. Where pipe is to be placed in a new embankment, the embankment shall be constructed as shown in the Plans or as designated by the Engineer for a distance each side of the pipe location of not less than five times the diameter and to a minimum height equal to $\frac{1}{2}$ of the outside diameter of the pipe.
19. The embankment material shall be compacted to 95 percent of maximum density and the moisture content at the time of compaction shall be between optimum and 3 percentage points below optimum.
20. The trench shall then be excavated to a width and the pipe installed in accordance with the civil plans.

7-08.3(1)C Bedding the Pipe

1. Pipe zone bedding material shall provide uniform support along the entire pipe barrel, without load concentration at joint collars or bells.
2. All adjustment to line and grade shall be made by scraping away or filling in with bedding material under the body of the pipe and not by blocking or wedging.
3. Bedding disturbed by pipe movement, or by removal of shoring movement of a trench shield or box, shall be reconsolidated prior to backfill.
4. Pipe zone bedding shall be as specified in the Standard Plans and shall be placed in loose layers and compacted to 90 percent maximum density.
5. Bedding shall be placed, spread, and compacted before the pipe is installed so that the pipe is uniformly supported along the barrel.
6. Lifts of not more than 6 inches in thickness shall be placed and compacted along the sides of the pipe to the height shown in the Standard Plans.
7. Material shall be worked carefully under the pipe haunches and then compacted.
8. If the Engineer determines that the material existing in the bottom of the trench is satisfactory for bedding the pipe, the bedding material specified in the Standard Plans is not required, provided the existing material is loosened, regraded, and compacted to form a dense, unyielding base.

7-08.3(2) Laying Pipe

7-08.3(2)A Survey Line and Grade

Survey line and grade control hubs will be placed in a manner consistent with accepted practices.

1. The Contractor shall transfer line and grade into the trench where they shall be carried by means of a laser beam or taut grade line supported on firmly set batter boards at intervals of not more than 30 feet.

2. Not less than three batter boards shall be in use at one time. Grades shall be constantly checked and in the event the batter boards do not line up, the Work shall be immediately stopped, the Engineer notified, and the cause remedied before proceeding with the Work.
3. Any other procedure shall have the written approval of the Engineer.
4. After an accurate grade line has been established, the pipe shall be laid in conformity with the established line and grade in the properly dewatered trench.
5. Mud, silt, gravel, and other foreign material shall be kept out of the pipe and off the jointing surfaces.
6. All pipe laid in the trench to the specified line and grade shall be kept in longitudinal compression until the backfill has been compacted to the crown of the pipe.
7. All pipe shall be laid to conform to the prescribed line and grade shown in the Plans, within the limits that follow.
8. Pipe shall be laid to a true line and grade at the invert of the pipe and the Contractor shall exercise care in matching pipe joints for concentricity and compatibility.
9. In no case shall two pipes be joined together with ends having the maximum manufacturer's tolerance.
10. The invert line may vary from the true line and grade within the limits stated to develop uniformity, concentricity, and uniform compression of jointing material provided such variance does not result in a reverse sloping invert.
11. The limit of the variance at the invert shall not exceed plus or minus 0.03 feet at the time of backfill.
12. Checking of the invert elevation of the pipe may be made by calculations from measurements on the top of the pipe.
13. The pipe, unless otherwise approved by the Engineer, shall be laid up grade from point of connection on the existing pipe or from a designated starting point.
14. The pipe shall be installed with the bell end forward or upgrade.
15. When pipe laying is not in progress, the forward end of the pipe shall be kept tightly closed with an approved temporary plug.
16. Where pipe joints must be deflected within the manufacturer's recommended limits to accommodate required horizontal or vertical curvature, it shall first be joined in straight alignment and then deflected as required.
17. Where pipe joints must be deflected to an amount greater than the manufacturer's recommended limits to accommodate required horizontal or vertical curvature, the curves shall be achieved with a series of tangents and shop fabricated bends, subject to the approval of the Engineer.
18. Upon final acceptance of the Work, all pipe and appurtenances shall be open, clean, and free draining.

7-08.3(2)C Pipe Laying – PVC

PVC pipe will be laid without severe bends in any direction, bedded in and covered with sorted material free of large rocks and boulders.

7-08.3(2)D Rubber Gasketed Joints

1. In laying the pipe with rubber gaskets, the pipe shall be handled carefully to avoid knocking the gasket out of position or contaminating it with foreign material.

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2. Any gasket so disturbed shall be removed, cleaned, re-lubricated if required, and replaced before joining the sections.
3. The pipe shall be properly aligned before joints are forced home. Sufficient pressure shall be applied in making the joint to ensure that the joint is home, as defined in the standard installation instructions provided by the pipe manufacturer.
4. The Contractor may use any method acceptable to the Engineer for pulling the pipe together, except that driving or ramming by hand or machinery will not be permitted.
5. Any pipe damaged during joining and joint tightening shall be removed and replaced at no expense to the Contracting Agency.
6. Care shall be taken to properly align the pipe before joints are entirely forced home.
7. During insertion of the tongue or spigot, the pipe shall be partially supported by hand, sling or crane to minimize unequal lateral pressure on the gasket and to maintain concentricity until the gasket is properly positioned.
8. Since most gasketed joints tend to creep apart when the end of the pipe is deflected and straightened, such movement shall be held to a minimum once the joint is home.
9. Sufficient restraint shall be applied to the line to ensure that joints once home are held so by compacting backfill material under and alongside the pipe or by other acceptable means.
10. At the end of the work day, the last pipe shall be blocked in such a manner as may be required to prevent creep.

7-08.3(3) Backfilling

1. Placement of pipe zone backfill shall be performed in accordance with these requirements and the Standard Plans.
2. Trenches shall be backfilled as soon after the pipe laying as possible.
3. Pipe zone backfill material shall be clean earth or sand, free from clay, frozen lumps, roots, or moisture in excess of that permitting required compaction.
4. Rocks or lumps larger than 3 inches maximum shall not be used for pipe zone backfill.
5. Pipe zone backfill shall be placed in loose layers and compacted to 90 percent maximum density.
6. Backfill shall be brought up simultaneously on each side of the pipe to the top of the pipe zone.
7. The pipe shall then be covered to the top of the pipe zone and the materials compacted in a manner to avoid damaging or disturbing the completed pipe.
8. Backfill above the pipe zone shall be accomplished in such a manner that the pipe will not be shifted out of position nor damaged by impact or overloading.
9. If pipe is being placed in a new embankment, backfill above the pipe zone shall be placed in accordance engineers specifications.
10. If pipe is being placed under existing paved areas, or Roadways, backfill above the pipe zone shall be placed in horizontal layers no more than 6 inches thick and compacted to 95 percent maximum density.
11. If pipe is being placed in non-traffic areas, backfill above the pipe zone shall be placed in horizontal layers no more than 6 inches thick and shall be compacted to 85 percent maximum density.
12. All compaction shall be in accordance with the Compaction Control Test by proctor.
13. Material excavated from the trench shall be used for the backfill above the pipe zone, except that organic material, frozen lumps, wood, rocks, or pavement chunks larger than 6 inches in maximum dimension shall not be used.

14. Materials determined by the Engineer to be unsuitable for backfill at the time of excavation shall be removed and replaced with imported backfill material.
15. Backfilling of trenches in the vicinity of catch basins, manholes, or other appurtenances will not be permitted until the cement in the masonry has become thoroughly hardened.
16. When it is required that a blanket of select material or bank run gravel is to be placed on top of the native backfill, the backfill shall be placed to the elevations shown in the Plans, or to the elevations specified by the Engineer.
17. Compaction of the native material shall be as required by the Contracting Agency and shall be performed prior to placing the select material.
18. Surface material shall be loosened to whatever depth is required to prevent bridging of the top layer and shall not be less than 18 inches.
19. The Contractor shall not operate tractors or other heavy equipment over the top of the pipe until the backfill has reached a height of 2 feet above the top of the pipe.

7-08.4 Measurement

1. Gravel backfill for foundations, or gravel backfill for pipe zone bedding when used for foundations, shall be measured by the cubic yard, including haul.
2. Plugging pipes will be measured per each, for each plug installed, for pipe diameters up to and including 36 inches.
3. The concrete for plugging pipes in excess of 36 inches in diameter will be measured by the cubic yard. Computations for corrugated metal pipes will be based on the nominal diameter.
4. Excavation of the trench will be measured as Structure excavation Class B or Structure excavation Class B including haul, by the cubic yard.
5. When excavation below grade is necessary, excavation will be measured to the limits ordered by the Engineer.
6. Embankment construction before pipe placement under the applicable provisions of Section 7-08.3(1).
7. Shoring or extra excavation class B will be measured as specified by the engineer.

7-08.5 Payment

All costs associated with furnishing and installing bedding and backfill material within the pipe zone in the installation of culvert, storm sewer, and sanitary sewer pipes shall be included in the unit Contract price for the type and size of pipe installed.

See Bid Form.

Division 8 - Miscellaneous Construction

8-01 Erosion Control and Water Pollution Control

8-01.3 Construction Requirements

1. The Contractor shall take all necessary precautions and utilize the Department of Ecology's (DOE) Best Management Practices to prevent sediment and fugitive dust from construction activities from

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entering into storm water systems, natural waterways, or environmentally sensitive areas and from otherwise being carried away from the construction area by stormwater or air.

2. Temporary erosion protection shall be furnished, installed, and maintained for the duration of this Project to protect environmentally sensitive areas, sloped surfaces, adjacent areas and/or water bodies or conveyance systems.
3. Temporary erosion protection may include the use of straw, jute matting, wattles, heavy plastic sheeting, or other forms of ground cover on areas disturbed by construction.
4. Sloped surfaces shall be restored and protected in such a manner that surface runoff does not erode the embankments, slopes, or ground surfaces, nor create surface channels, or ruts.
5. The Contracting Agency has prepared a Stormwater Pollution Prevention SWPPP to provide the Contractor upon execution of the contract.
6. The Contractor shall either adopt or modify the existing SWPPP. If modified the Contractor's SWPPP shall meet DOE requirements.
7. The Contractor shall submit the SWPPP to the Engineer before any Work begins.

8-01.3(1) Construction Entrance and Street Cleaning

1. Any material used for stabilized construction entrance shall be free of extraneous materials that may cause or contribute to track out.
2. Any tracked out material shall be collected and prevented from being washed or blown off the Roadway or into waters of the State, whenever required by the District.
3. The street sweeper shall effectively collect these materials and shall not generate fugitive dust and shall be designed and operated in compliance with applicable air quality standards.
4. Material collected by the street sweeper shall be disposed of in accordance with WSDOT or COBI regulations.
5. Street washing with water will require the concurrence of the District.

8-01.3(1)A Submittals

The Contractor shall be required to maintain, and update the erosion control plan, as may be required during the course of the Project. The erosion control plan and details included are provided solely for the establishment of basic erosion control measures and are not intended to be a complete plan.

8-01.4 Measurement

When the Bid Proposal contains the lump sum item "Erosion Control and Water Pollution Prevention" there will be no measurement of unit or force account items for Work defined in Section 8-01. If the Bid Proposal includes the Bid item "ESC Lead" the measurement is not deleted and the Work under that item will be measured as specified.

8-01.5 Payment

See Bid Form

8-02 Site Restoration

8-02.3 Construction Requirements

8-02.3(1) Responsibility During Construction

1. Existing vegetation that is disturbed as a result of the Contractor’s work including but not limited to trench excavation, retaining wall construction, material staging, truck routing, and chemical spills shall be fully restored.
2. Restoration work may include but is not limited to topsoil placement, reseeding, fertilizing, and mulching for grass, and replanting damaged bushes with in-kind plants.

8-02.3(3)B Chemical Pesticides

No chemical herbicides will be allowed in the project area.

8-02.3(4) Topsoil

8-02.3(4)A Topsoil Type A

1. Imported Topsoil, Type A, shall be a mixture of 40 percent compost by volume and 60 percent sandy loam by volume as defined by USDA soil texture triangle, screened through a 3/8-inch screen or approved equal.
2. Compost shall be made from ground yard waste that has first been screened through a 5/8-inch trammel screen. The composting process shall include five 3-day periods during which the compost temperature is 131 to 165 degrees Fahrenheit. The total composting time period shall be a minimum of 4 months.
3. Topsoil shall be weed free.
4. Topsoil Type A shall be placed to a non-compacted depth 4 inches.
5. The topsoil shall be thoroughly blended prior to placement.

8-02.3(5) Planting Area Preparation

Final Acceptance

Final acceptance by the Contracting Agency for soil preparation will be contingent on the approval of all inspections, and that the soil preparation is consistent with these specifications and with the Plans.

8-02.3(6) Plant Establishment

Reseeding

1. Contractor will use a Pacific Northwest Turf Blend type seed for all disturbed areas where mineral soil is exposed. Seed will be raked in and covered with straw at the rate of one bale per 1000 square feet. This work shall be performed as a final step in the site cleanup process.

1-a.5 Payment

See Bid Form Site Restoration Item.

8-12 Chain Link Fence and Wire Fence

1-a.1 Description

1. This work consists of furnishing and constructing a perimeter chain link fence around the facility, including access/egress gates as shown on the drawings. Manufacturer shall be a company

operating in the United States having US manufacturing facility/facilities specializing in manufacturing chain link fence products with at least five (5) years of experience.

2. Fence Contractor shall be a company with demonstrated successful experience installing similar projects and products in accordance with ASTM F567 and have at least five (5) years of experience.

8-12.2 Materials

8-12.2(1) Chain Link Fabric

1. Steel chain link perimeter fabric shall be 9 gauge vinyl coated to 6 gauge. Polymer Coated Steel Fabric:

The wire gauge specified for polymer-coated wire is that of the metallic coated steel core wire. Color shall be RAL 9005 black or approved equal. Fabric shall be 1-3/4 inch mesh. Fabric selvage shall be knuckled at both top and bottom on all fabric.

8-12.2(2) Steel Fence Framework

Round steel pipe and rail:

1. Type I – ASTM F1083 Schedule 40 or Type II SS-40 high strength pipe with $f_y = 50$ ksi. Sizes shall be per the contract drawings. The coatings shall conform to ASTM F 1234, Type B exterior coatings with a minimum of 15 micrograms/ sq. in. chromate, and 0.3 mils minimum clear polymer. Interior coatings shall conform to type B galvanizing or Type D with a minimum of 91% zinc loading powder. Coatings are to be applied inside and outside after welding. All posts, rails and gate frames shall be powder coated to match vinyl fabric.
2. Posts and braces used shall be in accordance with the contract drawings.
3. Framework: coated framework shall be powder coated to match vinyl fencing.
4. Bottom rail of all perimeter and interior fence shall be 1 inch above concrete.

8-12.2(3) Tension Wire

1. Metallic Coated Steel Marcellled Tension Wire:
2. 7 gauge (0.177 in.) (4.50 mm) Marcellled wire:
3. Type II Zinc-Coated Class 5 – 2.0 oz/ft² (610 g/m²)
4. Powder Coated Steel Tension Wire: 7gauge (0.177 in) (4.50 mm) wire. Wire gauge specified is the core wire gauge.
5. Class 2a, extruded and adhered.

8-12.2(4) Fittings

1 Tension and Brace Bands:

- a. Galvanized pressed steel, minimum steel thickness of 12 gauge (0.105 in.) (2.67 mm), minimum width of 3/4 in. (19 mm) and minimum zinc coating of 1.20 oz/ft² (366 g/m²).
- b. Bands supplied with 5/16 in. (7.94 mm) or 3/8 in. (9.53 mm) galvanized steel carriage bolts.

2 Terminal Post Caps, Line Post Loop Tops, Rail and Brace Ends, Boulevard Clamps, Rail Sleeves:

- a. Pressed steel galvanized after fabrication having a minimum zinc coating of 1.20 oz/ft² (366 g/m²).

3 Truss Rod Assembly: 3/8 in. (9.53 mm) diameter steel truss rod with a pressed steel tightener,

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- a. minimum zinc coating of 1.2 oz./ft² (366 g/m²), assembly capable of withstanding a tension of 2,000 lbs. (970 kg).

4 Tension Bars:

- a. Galvanized steel one-piece length 2 in. (50 mm) less than the fabric height.
- b. Minimum zinc coating 1.2 oz./ft² (366 g/m²)
- c. Bars for 2 in. (50 mm) and 1–3/4 in. (44 mm) mesh shall have a minimum cross section of 3/16 in. (4.8 mm) by 3/4 in. (19 mm).

5 Power Coated Color Fittings:

- a. Powder coating coated fittings to match the color to the fence system.

8-12.2(5) Tie Wire and Hog Rings

1. Powder coated; match the coating, class and color to that of the chain link fabric.

8-12.2(6) Swing Gates

1. Openings as indicated on the drawings.
2. Galvanized steel welded fabrication in compliance with ASTM F900.
3. Gate frame members shall be in accordance with the drawings.
4. Welded joints protected by applying zinc-rich paint. Positive locking gate latch fabricated of 5/16 inch thick by 3/4 inch (44.45 mm) pressed steel galvanized after fabrication.
5. Galvanized malleable iron or heavy gauge pressed steel post and frame hinges.
6. Match gate fabric to that of the fence system.
7. Powder coated gate frames and gateposts; match the coating type and color to that specified for the fence framework.
8. Moveable parts such as hinges, latches and drop rods may be field coated using liquid powder coating touch up paint.
9. Latches to be ADA Accessible.
10. Gap between concrete and bottom rail of gate shall be 1 inch.

8-12.2(8) Concrete

Footings for fence and gate posts shall be constructed using commercial concrete Class 3000.

8-12.3 Construction Requirements

8-12.3(1) Clearing Fence Line

Surveying, clearing, grubbing, grading and removal of debris for the fence line or any required clear areas adjacent to the fence is included in the fencing contractor's contract.

8-12.3(2) Framework Installation

Posts:

1. Posts shall be set plumb in concrete footings, size and spacing per the drawings.
2. Provide caps at the top of each post.
3. Top, Mid and Bottom rails: Install 21 ft. (6.4 m) lengths of rail continuous through the line post or barb arm loop top.

4. Splice rail using top rail sleeves minimum of 6 in. (152 mm) long.
5. The rail shall be secured to the terminal post by a brace band and rail end.
6. Bottom rail or mid rail shall be field cut and secured to the line posts using boulevard bands or rail ends and brace bands.
7. Fences 8 feet (3.66 m) high or higher require mid rails.
8. There shall be a gap of 1 inch between bottom rail and concrete surface.

Terminal posts:

1. End, corner, pull and gate posts shall be braced and trussed for fence 6 ft. (1.8 m) and higher and for fences 5 feet. (1.5 m) in height not having a top rail.

8-12.3(3) Chain Link Fabric Installation

1. Install fabric to outside of the framework.
2. Attach fabric to the terminal post by threading the tension bar through the fabric; secure the tension bar to the terminal post with tension bands and 5/16 in. (8 mm) carriage bolts spaced no greater than 12 inches (305 mm) on center.
3. Small mesh fabric less than 1 in. (25 mm) attach to terminal post by sandwiching the mesh between the post and a vertical 2 in. wide (50 mm) by 3/16 in. (5 mm) steel bar using carriage bolts, through bolted through the bar, mesh and post spaced 15 in. (381 mm) on center.
4. Chain link fabric shall be stretched taut, free of sag. Fabric to be secured to the line post with tie wires spaced no greater than 12 inches (305 mm) on center and to rail spaced no greater than 12 inches (305 mm) on center.
5. Secure fabric to the tension wire with hog rings spaced no greater than 12 inches (305 mm) apart.

8-12.3(4) Gate Installation

Swing Gates:

1. Installation of swing gates and gateposts in compliance with ASTM F567.
2. Direction of swing shall be as shown on plans.
3. Gates shall be plumb in the closed position having a bottom clearance of 2 inches.
4. Hinge and latch offset opening space from the gate frame to the post shall be no greater than 3 inches (76 mm) in the closed position.
5. Gap between bottom rail and concrete surface shall not exceed 1 inch.

8-12.3(5) Nuts and Bolts

1. Carriage bolts used for fittings shall be installed with the head on the secure side of the fence.
2. All bolts shall be peened over to prevent removal of the nut.
3. Exposed bolt ends in excess of three (3) threads shall be trimmed to a maximum of three (3) exposed threads, free of sharp edges to prevent injury.

8-12.3(6) Tolerances

1. Current published edition of ASTM specifications tolerances that apply.
2. ASTM specification tolerances supersede any conflicting tolerances.

8-12.3(7) Clean Up

1. The area of the fence line shall be left neat and free of any debris caused by the installation of the fence.

8-12.4 Measurement

1. Perimeter Chain Link Fence will be measured by the linear foot of completed fence, along the ground line, exclusive of openings and shall include fence fabric, top, bottom and mid-rails, hogties, tension bars and other fittings and accessories.
2. End, gate, corner, and pull posts for the Perimeter Chain Link Fence will be measured per each for the posts furnished and installed in place and shall include concrete footings.
3. Gates will be measured by the unit for each type of gate furnished and installed and shall include gate hardware, hinges, latches, and drop bar receivers.

8-12.5 Payment

See Bid Form

8-13 Cement Concrete Sidewalks

8-13.1 Description

This Work consists of constructing cement concrete sidewalks in accordance with details shown in the Plans and these Specifications and in conformity to lines and grades shown in the Plans or as established by the Engineer.

8-13.2 Materials

Materials shall meet the requirements of the following sections:

1. Portland Cement 6-02
2. Pre-molded Joint Filler, Sheet C4, civil drawings
3. Concrete Curing Materials and Admixtures 6-02

8-13.3 Construction Requirements:

The concrete in the sidewalks shall be air entrained concrete Class 4000 in accordance with the requirements of Section 6-02.

Excavation:

1. Excavation shall be made to the required depth and to a width that will permit the installation and bracing of the forms.
2. The foundation shall be shaped and compacted to a firm even surface conforming to the section shown in the Plans.
3. All soft and yielding material shall be removed and replaced with acceptable material.

Forms:

1. Forms shall be of wood or metal and shall extend for the full depth of the concrete.

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2. All forms shall be straight, free from warp, and of sufficient strength to resist the pressure of the concrete without springing.
3. Bracing and staking of forms shall be such that the forms remain in both horizontal and vertical alignment until their removal.
4. After the forms have been set to line and grade, the foundation shall be brought to the grade required and thoroughly wetted approximately 12 hours before placing the concrete. Placing and Finishing Concrete The concrete shall be placed in the forms and struck off with an approved straightedge.
5. As soon as the surface can be worked, it shall be troweled smooth with a steel trowel.
6. After troweling and before installing the contraction joints or perimeter edging, the walking surfaces of the sidewalk and curb ramps shall be brushed in a transverse direction with a stiff bristled broom as shown in the Plans.
7. Expansion and contraction joints shall be constructed as shown in the Plans.
8. When the sidewalk abuts a cement concrete curb or curb and gutter, the expansion joints in the sidewalk shall have the same spacing as the curb.
9. The expansion joint shall be filled to full cross-section of the sidewalk with $\frac{3}{8}$ inch pre-molded joint filler.
10. Curb ramps shall be of the type specified in the Plans.
11. Curing Concrete sidewalks shall be cured for at least 72 hours.
12. Curing shall be by means of moist burlap or quilted blankets or other approved methods.
13. During the curing period, all traffic, both pedestrian and vehicular, shall be excluded.
14. Vehicular traffic shall be excluded for such additional time as the Engineer may specify.

8-13.4 Measurement:

1. Cement concrete sidewalks will be measured by the square yard of finished surface.

8-13.5 Payment:

See Bid Form

8-26 COURT EQUIPMENT

8-26.1 Description

This work shall consist of installing court equipment required for regulation play. **The court net posts, sleeves, and center strap anchor will be furnished by the Contracting Agency.**

8-26.2 Materials

8-26.2(1) Posts

8-26.3 Construction Requirements

1. Posts, sleeves and accessories shall be installed as recommended with the manufacturer's written directions, and as indicated on the drawings.
2. Posts shall be installed in concrete foundations per the drawings.
3. Post foundation concrete shall be Commercial Class 3000.

8.26-4 Measurement

Tennis Post Installation, including sleeves and foundations, shall be measured per each.

8-26.5 Payment

See Bid Form

8-27 PLAYING SURFACE

8-27.1 Description

This work consists of the patching and crack filling necessary for preparing the asphalt slab for primer application, filler course application, and installation of the acrylic color playing surface and line paint for the Tennis Courts. Court pace (speed) will be **SLOW**. Acrylic coated hard courts are rated from slow to fast. The amount of sand mixed with the paint coating sets the speed of the court. The paint coatings manufacturer must provide a coating mix to achieve the desired pace (speed).

8-27.2 Materials

1. All surface coatings products specified in this section shall be supplied by a single manufacturer.
2. The contractor shall record the batch number of each product used on the site and maintain it through the warranty period.
3. The contractor shall provide the Engineer, upon request, an estimate of the volume of each product to be used on the site.
4. The installer shall be an authorized applicator of the specified system.
5. All surfacing materials shall be non-flammable and have a VOC content of not less than 100g/liter measured by EPA method 24.

8-27.2(1) Acrylic Patch Mix

Acrylic Patch Mix for use in patching cracks, holes, depressions and other surface imperfections shall be a 100% acrylic resin blended with Portland Cement and silica sand:

1. Percent solids by weight (minimum) 46%
2. Weight 8.7-8.9 lbs/gallon
3. Manufacturer: Court Patch Binder by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(2) Crack Filler

Crack filler for use in filling fine cracks shall be 100% acrylic resin heavily filled with sand:

1. Percent solids by weight (minimum) 85%
2. Percent solids by weight (minimum) 15 lbs/gallon
3. Manufacturer: Court Patch Binder by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(3) Etching Compound

Etching Compound is a specially formulated acid treatment for use in neutralizing the concrete in preparation for the playing surface application:

1. Percent solids by weight (minimum) 25.5%
2. Weight 9.5-9.6 lbs/gallon
3. Manufacturer: Concrete Preparer by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(4) Adhesion Primer

Adhesion Primer is a two-component, water-based, epoxy primer for uncoated concrete surfaces:

1. Percent solids by weight (minimum) 34.6-34.8%
2. Weight 8.55-8.70 lbs/gallon
3. Manufacturer: California Ti-Coat by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(5) Acrylic Filler Course

Acrylic Filler Course for use as a filler for new concrete surfaces shall be a 100% acrylic filler blended with approved silica sand at the job site and shall contain no vinyl copolymerization constituent and shall contain not less than 3.5% attapulgate:

1. Percent solids by weight (minimum) 26.7%
2. Weight 8.7-8.9 lbs/gallon
3. Manufacturer: Acrylic Resurfacer by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(6) Acrylic Color Playing Surface

Acrylic Color Playing Surface for use as the finish color and texture shall be blended at the job site to achieve the correct surface texture and shall be comprised of the following components:

Acrylic Pigmented Latex Coating:

1. Shall be 100% acrylic resin and contain no vinyl copolymerization constituent with selected light fast pigments.
2. Green shall contain not less than 8% chrome oxide.
3. Colors for border area are shown on sheet C-5 as Forest Green for border areas, and Light Blue for playing areas. These are standard USTA and colors **must** be confirmed with the agency before purchase and application. **Submittals are required.**
4. Manufacturer: Plexipave by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**
5. Percent solids by weight (minimum) 36.5%
6. Weight 10.0-10.2 lbs/gallon

Texture Base:

1. Texture Color Base shall be 100% acrylic resin containing no vinyl copolymerization constituent. Contains not more than 63% rounded silica sand.
2. Percent solids by weight (minimum) 74%
3. Weight 13.1-14.1 lbs/gallon
4. Manufacturer: Plexipave Color Base by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.2(7) Line Paint

Painted lines for 36' and 60' tennis on a 78' court should be a color within the same color family as the 78' court playing surface (i.e. light blue on a dark blue surface), with the preference being a lighter line on the darker surface. This differentiates the 36' and 60' playing lines from the (typically white) 78' court. All playing lines will be textured to match the surface pace of the adjacent playing surface (the pace being SLOW). See sheet C-4, note 02 for more information. **Submittals for line paint colors for each line type are required.**

1. Line Paint is for use as the line marking on the court/playing surface and shall be 100% acrylic resin containing no alkyds or vinyl constituents.
2. Percent solids by weight (minimum) 60.5%
3. Weight 12.2-12.3 lbs/gallon
4. Manufacturer: Hi-Hide Plexicolor Line Paint, Textured by California Products, Andover, MA 01810 or approved equivalent. **Submittals are required.**

8-27.3 Construction Requirements

8-27.3(1) Weather Limitations

1. Do not install when rainfall is imminent or extremely high humidity prevents drying.
2. Do not apply unless surface and air temperature are 50 degrees F and rising.
3. Do not apply if surface temperature is in excess of 140 degrees F.

8-27.3(2) Preparation for Acrylic Color Playing System

Prior to applying the acrylic color playing system, the net sleeves and fence posts shall be installed and approved by the Engineer.

Cleaning:

1. Clean surfaces of loose dirt, oil, grease, leaves, and other debris in strict accordance with manufacturer's installation instructions.
2. Pressure washing will be necessary to adequately clean areas to be coated.
3. Any areas previously showing algae growth shall be treated with chlorine bleach or approved product to kill the organisms and then be properly rinsed.

Depressions:

4. Depressions holding enough water to cover a nickel shall be filled with acrylic patch mix.
5. Three (3) gallons of acrylic patch binder, 100 lbs. 60-80 silica sand, 1 gallon Dry Portland Cement (Type I).
6. This step shall be accomplished prior to the squeegee application of the acrylic filler course.
7. The contractor shall flood all the courts and then allow draining.
8. Define and mark all areas holding enough water to cover a nickel.
9. After defined areas are dry, prime with tack coat mixture of two (2) parts water to one (1) part acrylic patch mix.
10. Allow tack coat to dry completely.
11. Spread acrylic patch mix true to grade using a straight edge, not a squeegee) for strike-off. Steel trowel or wood float the patch so that the texture matches the surrounding area.
12. Never add water to mix.
13. Light misting on surface and edges to feather in is allowed as needed to maintain workability. Allow to dry thoroughly and cure. Further work on the playing surface cannot commence until the Engineer has inspected and accepted the surface.

Primer:

14. Adhesion Primer shall be applied to all uncoated concrete surfaces prior to application of filler materials.
15. Apply at a rate of 0.25-0.3 gallons per square yard.
16. Mix component A with Component B at a ratio of 1:1.
17. Let stand for 20-30 minutes prior to use.
18. Apply with a short nap phenolic core roller.
19. Allow the adhesion primer to dry for approximately one (1) to three (3) hours until the
20. surface is slightly tacky to the touch. In no case shall the surface be left overnight before receiving an application of acrylic filler course.

Acrylic Filler Course:

21. On the properly applied adhesion primer the acrylic filler course shall be applied to the clean underlying surface in one application to obtain a total quantity of not less than .06 gallons per square yard based on the material prior to any dilution.
22. Acrylic filler courser may be used to pre-coat depression and hole/crack repairs to achieve better planarity prior to filler course application.
23. Acrylic Filler Course shall be mixed in according to the following:
 - a. Acrylic Latex Binder 55 gallons
 - b. Water 20 – 40 gallons
 - c. Sand 600-800 pounds / 60-80 mesh
 - d. Liquid Yield 112-138 gallons

8-27.3(3) Application of Acrylic Color Playing Surface

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1. All areas to be color coated shall be clean, free from sand, clay, grease, dust, salt or other foreign matter.
2. The Contractor shall obtain the Engineer's approval, prior to applying any surface treatment.
3. Blend color base and pigmented latex coating with a mechanical mixer to achieve a uniform Acrylic Color Playing Surface mixture.
4. The mix shall be:
 - a. Color Base 20 gallons
 - b. Pigmented latex coating 20 gallons
 - c. Water 20-22 gallons
5. Application shall be made by 50 durometer rubber faced squeegees.
6. The acrylic color playing surface mixture should be poured onto the court surface and spread to a uniform thickness in a regular pattern.
7. A total of two (2) applications of acrylic color playing surface mixture shall be made to achieve a total application rate of not less than 10 gallons/square yard.
8. The first coat shall be applied lengthwise of the court and the second coat, crosswise of the court.
9. No application should be made until the previous application is thoroughly dry.

8-27.3(4) Line Painting

1. Line shall be two (2) inches wide unless otherwise noted on the drawings.
2. Lines shall be carefully laid out in accordance with USTA guidelines for blended courts.
3. The area to be marked shall be taped to ensure a crisp line.
4. Line Paint shall have a texture similar to the surrounding play surface.
5. Application shall be made by brush or roller at the rate of 150 sf/gallon.
6. Temporary barriers shall be erected to protect coatings during drying and curing.
7. Remove all containers, surplus materials and debris.
8. Dispose of materials in accordance with local, state and Federal regulations.
9. Leave site in a clean and orderly condition.

8-27.4 Measurement

1. The Contracting Agency will not base payment on any unit of measurement for the square yard item playing surface shall include all surface preparation, priming, acid treatment, crack sealing, patching, leveling, and surfacing to install a playing surface to meet contract plans and specifications.
2. Line painting shall include surface preparation, texture and paint to install line paint in accordance with the contract plans and specifications. The unit of measure in lineal feet.

8-27.5 Payment

See Bid Form.

9-03 Aggregates

9-03.1(1) General Requirements

1. Reclaimed aggregate may be used if it complies with the specifications for Portland Cement Concrete.

2. Reclaimed aggregate is aggregate that has been recovered from plastic concrete by washing away the cementitious materials.

9-03.1(2) Fine Aggregate for Portland Cement Concrete

Fine aggregate shall consist of natural sand or manufactured sand, or combinations thereof, accepted by the Engineer, having hard, strong, durable particles free from adherent coating. Fine aggregate shall be washed thoroughly to meet the specifications.

9-03.1(2)A Deleterious Substances

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 6 and not exceed the following values:

Material finer than No. 200 Sieve 2.5 percent by weight
Clay lumps and friable particles 3.0 percent by weight
Coal and lignite 0.25 percent by weight
Particles of specific gravity less than 2.00 1.0 percent by weight.

Organic impurities shall be tested in accordance with AASHTO T 21 by the glass color standard procedure and results darker than organic plate no. 3 shall be rejected. A darker color results from AASHTO T 21 may be used provided that when tested for the effect of organic impurities on strength of mortar, the relative strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95 percent.

9-03.1(4) Coarse Aggregate for Portland Cement Concrete

Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or combinations thereof having hard, strong, durable pieces free from adherent coatings. Coarse aggregate shall be washed to meet the specifications.

9-03.1(4)A Deleterious

9-03.1(4)A Deleterious Substances

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 80 and not exceed the following values:

1. Material finer than No. 200 1.01 1 percent by weight
2. Clay lumps and Friable Particles 2.0 percent by weight
3. Shale 2.0 percent by weight
4. Wood waste 0.05 percent by weight
5. Coal and Lignite 0.5 percent by weight
6. Sum of Clay Lumps, Friable Particles, and
7. Chert (Less Than 2.40 specific gravity SSD) 3.0 percent by weight

If the material finer than the No. 200 sieve is free of clay and shale, this percentage may be increased to 1.5.

9-03.1(4)B Grading

Specifications for grading, see Civil drawing sheets for grading plan.

9-03.1(4)C Deleterious Substances

The amount of deleterious substances in the washed aggregate shall be tested in accordance with AASHTO M 6 and not exceed the following values:

Material finer than No. 200 Sieve 2.5 percent by weight

Clay lumps and friable particles 3.0 percent by weight

Coal and lignite 0.25 percent by weight

Particles of specific gravity less than 2.00 1.0 percent by weight.

Organic impurities shall be tested in accordance with AASHTO T 21 by the glass color standard procedure and results darker than organic plate no. 3 shall be rejected. A darker color results from AASHTO T 21 may be used provided that when tested for the effect of organic impurities on strength of mortar, the relative strength at 7 days, calculated in accordance with AASHTO T 71, is not less than 95 percent.

9-03.1(4)D Coarse Aggregate for Portland Cement Concrete

Coarse aggregate for concrete shall consist of gravel, crushed gravel, crushed stone, or combinations thereof having hard, strong, durable pieces free from adherent coatings. Coarse aggregate shall be washed to meet the specifications.

9-04. ADA Parking Markings and Signage.

The ADA parking pad will be marked in accordance with the MUTCD standard for pavement markings of ADA accessible parking spaces. This includes the vehicle parking location and the unloading zone. A concrete wheel stop will be placed in both the ADA and the other parking stall as shown on the project plans. An ADA parking sign will be attached to the chain-link fence in front of the parking space.

SEPARATE DOCUMENTS

Drawings – Sakai Park Tennis Courts #3010
Survey Map - Sakai Park Tennis Courts #3010
Geotech Report - Sakai Park Tennis Courts #3010
Drainage Plans - Sakai Park Tennis Courts #3010
Drainage Reports - Sakai Park Tennis Courts #3010
SWPPP - Sakai Park Tennis Courts #3010
SAR - Sakai Park Tennis Courts #3010