

## Solicitation Information

As an approved contractor on the Municipal Research Services Center (MRSC) Small Works Roster, you are invited to bid on the following project:

### SEATTLE HOUSING AUTHORITY (SHA) SOLICITATION #5154

Project Name: Montridge Arms Storm Water Management

Project Address: Montridge Arms is located at 9000 20<sup>th</sup> Ave SW Seattle WA 98106

Owner: Seattle Housing Authority

SHA Project Manager: Ricky Phillips, Construction Project Manager

Summary of Work: The Contractor will furnish all labor, materials, and equipment necessary to Saw cut asphalt parking lot and connect 4 roof drains to parking lot catch basin. Repave east parking lot with new striping.

Project Estimate: The estimate for this project is between \$38,000 and \$45,000

Site visit: Site visit on Thursday, January 17, 2019 at 10:00 AM, meeting at Montridge Arms – project address above

Deadline for Written Questions: Wednesday, January 23, 2019 by 2:00 p.m.

Email questions only to Marilyn.Westman@seattlehousing.org

**Bids Due: February 6, 2019 by 2:00 p.m. Email complete Bid Packet (below) to**

**Email Bid Package to [Purchasing@seattlehousing.org](mailto:Purchasing@seattlehousing.org) or**

**Hand deliver to Seattle Housing Authority 190 Queen Ave North**

**5<sup>th</sup> Floor Attn. Purchasing Seattle WA 98109**

BID DOCUMENTS: Attached to this email in pdf format is the bid packet which includes the following forms to be submitted and reference documents:

Division 0 General Requirements – **Bid Packet (Items 2-6 to be emailed to SHA by due date and time)**

1. Solicitation Information (this sheet)
2. Cover Sheet for Returning the Bid
3. Request for Bids Form – Form must be completed, signed and emailed back by bid due date
4. SHA Vendor Fact Sheet -Form is to be completed and emailed back with bid form.
5. Section 3 Business Certification Form & Employment plan – Form must be completed indicating whether or not your firm is a Section 3 firm and emailed back with bid form.
6. Contractor Suspension & Debarment Certification - Form must be completed and emailed back with bid form.

Division 0 General Requirements – Reference Documents

7. Attachment A, Version 2

General Conditions of the Contract for Construction dated March 23, 2017 available at:

[https://www.seattlehousing.org/sites/default/files/General%20Conditions%20of%20The%20Contract%20For%20Construction\\_1.pdf](https://www.seattlehousing.org/sites/default/files/General%20Conditions%20of%20The%20Contract%20For%20Construction_1.pdf)

8. Sample Contract Form: See Attached Draft
9. Wage Determination: HUD Non Routine Maintenance Wages (attached)
10. Project Specifications

Division 1 General Requirements

- Section 01 10 00 Summary of Work
- Section 01 11 00 Hazardous Materials
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### **Solicitation Information**

As an approved contractor on the Municipal Research Services Center (MRSC) Small Works Roster, you are invited to bid on the following project:

#### Division 2-33 Technical Specifications

- Section 03 30 00 Cast in Place Concrete
- Section 22 00 00 General plumbing Requirements
- Section 31 50 00 Excavation Support & Protection
- Section 32 12 16 Asphalt concrete Paving
- Sketches Montridge Arms (2 pages)

Any addenda issued for this solicitation will be posted on the SHA website under the project number at <https://www.seattlehousing.org/do-business-with-us/solicitations>

SHA Contract #5154

Montridge Arms Storm Water Management

Email to [purchasing@seattlehousing.org](mailto:purchasing@seattlehousing.org) **OR**

Hand deliver (sealed envelope) to SHA Purchasing  
190 Queen Anne Ave North  
5<sup>th</sup> Floor Reception  
Seattle WA 98109-1028

Due Date: Wednesday, February 6, 2019 by 2:00 PM

Checklist: Include the following completed and signed forms:

- \_\_\_\_\_ Request for Bids Form
- \_\_\_\_\_ Vendor Fact Sheet
- \_\_\_\_\_ Section 3 Business Certification
- \_\_\_\_\_ Suspension & Debarment Contractor Compliance Certificate



190 Queen Anne Ave N  
 PO Box 19028  
 Seattle, WA 98109-1028

## REQUEST FOR BIDS (by Email)

Date: 1/8/2019		To: Potential Bidders for SHA Solicitation #5154 Montridge Arms Storm Water Management	
The work described below is subject to the conditions described on Attachment A, version 1 <input type="checkbox"/> version 2 <input checked="" type="checkbox"/>			
SHA Reference No.: <b>5154</b>	(Federal Prevailing Wages) Federal Wage Decision No.: HUD Non-Routine Maintenance Schedule	OR	(State Prevailing Wages) Date of State Prevailing Wage Schedule: NA
Number of Calendar Days to Complete Work: <b>60</b>	Estimate : \$38,000 and 45,000	For Questions ONLY Contact: E-mail: <a href="mailto:Marilyn.westman@seattlehousing.org">Marilyn.westman@seattlehousing.org</a>	
Project Description / Scope of Work: <input checked="" type="checkbox"/> See Scope of Work attached. <input type="checkbox"/> See Scope of Work below. <b>Saw cut asphalt, trench and connect 4 roof-drains to parking lot catch basin. Repave east parking lot with new striping.</b>			
<b>PRE-BID SITE VISIT: Thursday <u>January 17, 2019</u> at <u>10:00 AM</u>. Meet at <b>Montridge Arms 9000 20<sup>th</sup> Ave SW Seattle 98106</b></b>			
<b>DEADLINE FOR QUESTIONS is Wednesday, Jan. 23, 2019</b> no later than <u>2:00 PM</u> . Email your questions to: <a href="mailto:Marilyn.westman@seattlehousing.org">Marilyn.westman@seattlehousing.org</a>			
<b>BID DUE DATE AND TIME: <u>Wednesday, February 6, 2019 by 2:00 PM</u>.</b> The bidder is responsible for ensuring that its Bid is received prior to the deadline. Bids received after the deadline will not be considered.			
<b>EMAIL YOUR BID TO: <u>Purchasing@seattlehousing.org</u> or deliver to the address above.</b>			
<b>BIDDER ACKNOWLEDGES RECEIPT OF ADDENDA(S) NUMBER(S):</b>			
<b>BIDDER MUST COMPLETE THE INFORMATION BELOW.</b> In addition, if bidder has never done business with SHA, it must submit a vendor fact sheet with its bid form. Bidder must also submit the required Section 3 forms with its bid form. <input type="checkbox"/> If checked, Bidder must complete the attached Detailed Bid Price Form and provide the total bid price below.			
Basic Bid Price (without Sales Tax)	<b>Sales Tax on Materials ONLY</b> (see Attachment A)	Total Bid Price (with Sales Tax)	
Bidder's Business Name:	Telephone No.:	E-Mail Address:	
Address:		City, State, Zip Code:	
Business Classification: <input type="checkbox"/> WBE <input type="checkbox"/> MBE <input type="checkbox"/> MWBE <input type="checkbox"/> Section 3		Contractor Registration No.:	
Signature:	Date:	Printed Name and Title of Person Signing Bid:	
By signing above, the Bidder acknowledges receipt of Attachment A and any addenda issued for this project, and proposes to furnish all material and labor and to perform all work described herein for the Bid Price noted above. The Bidder also certifies the following: to have personally and carefully evaluated the Project Description / Scope of Work and Attachment A, and to have a clear understanding of the same, including the requirement to pay prevailing wages.			
<b>SHADED AREA FOR USE BY SHA ONLY: Use this form only for projects estimated to cost less than \$150,000</b>			
Required Number of Bids to Solicit for Federally Funded projects: Less than \$2,000: 1 bid \$2,001-\$150,000: 3 bids			
Required Number of Bids to Solicit for Non-Federally Funded projects: Less than \$10,000: 1 bid \$10,001-\$150,000: 5 bids			
See Purchasing policies for solicitation of projects \$150,000 and above.			



# VENDOR FACT SHEET

Return this Form TO: Seattle Housing Authority, Purchasing Division,  
 ATTN: \_\_\_\_\_  
 190 Queen Anne Ave N, P.O Box 19028, Seattle WA 98109-1028

<b>General Business Information:</b>	<b>For SHA Use Only:</b>
Name of Business, Organization, or Name of Person (if payment is to an individual):	JDE Vendor No.

Mailing Address for Payments:

City:	State:	Zip Code:	E-Mail Address:
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Telephone No.:	Fax No.:	DUNS No.:
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Washington UBI No.:	City of Seattle Business License No.:	Washington Contractor's License No.:
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President/General Manager:	Principal products and/or services offered:
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**Type of Organization (check one):**

Individual <input type="checkbox"/>	Sole Proprietor <input type="checkbox"/>	Partnership <input type="checkbox"/>	Corporation <input type="checkbox"/>	Governmental Agency <input type="checkbox"/>	Other _____ <input type="checkbox"/>
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Employee Tax ID No. (TIN) or Social Security No. (if Individual):

**Substitute IRS Form W-9 Certification:**  
 Under penalties of perjury, I hereby certify that the number shown on this form is my correct taxpayer identification number, and that I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and I am a U.S. person (including a U.S. resident alien). Note: The Internal Revenue Service does not require your consent to any provision of this document other than the certifications required to avoid backup withholding.

<b>SIGN HERE →</b>	<b>Signature of U.S. Person</b>	<b>Date</b>
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<b>Ownership Status (check all that apply):</b>	<b>Racial/Ethnic Status (check one):</b>
<input type="checkbox"/> <b>MBE</b> (Minority-Owned Business Enterprise) <input type="checkbox"/> <b>WBE</b> (Women-Owned Business Enterprise) <input type="checkbox"/> <b>MWBE</b> (Minority / Women-Owned Business Enterprise) <input type="checkbox"/> <b>CBE</b> (Combination Business Enterprise) <input type="checkbox"/> <b>Small Business</b> <input type="checkbox"/> <b>HUD Section 3 Business</b> <input type="checkbox"/> Certified by OMMWBE (Washington State Office of Minority and Women's Business Enterprises) <input type="checkbox"/> Self-Identified (SHA may request a signed statement re: self-certification)	<input type="checkbox"/> Caucasian (1) <input type="checkbox"/> African American (2) <input type="checkbox"/> Native American (3) <input type="checkbox"/> Hispanic American (4) <input type="checkbox"/> Asian/Pacific American (5) <input type="checkbox"/> Hasidic Jews (6)

**Method of Contract Payments:** As outlined on the reverse side of this form, for contracts over one million dollars, SHA's method of contract payments is through an electronic virtual credit card issued by SHA's e-payables vendor, Bank of America. Unless SHA grants a waiver, Vendors will receive an enrollment form from SHA following issuance of a contract.

**SIGN BELOW:**

Signature of Authorized Representative of Vendor:	Date:
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By signing immediately above, the Vendor hereby represents the following:

- a) The Vendor certifies that to the best of its knowledge and belief, neither it, nor any person/principal or firm which has an interest in the Vendor's firm, is ineligible to participate in a SHA contract, purchase order, direct pay or other transaction, pursuant to the Certification of Eligibility provision specified in the Vendor Fact Sheet Instructions, or;
- b) The Vendor will comply with SHA's General Terms and Conditions applicable to Purchase Orders, if the Vendor will be supplying goods and/or services through an SHA Purchase Order.

To obtain a copy of the General Terms and Conditions, call (206) 615-3379 or visit our Web site at  
[https://www.seattlehousing.org/sites/default/files/Purchase\\_Orders\\_Terms\\_Conditions.pdf](https://www.seattlehousing.org/sites/default/files/Purchase_Orders_Terms_Conditions.pdf)

## Vendor Fact Sheet Instructions

Thank you for your interest in doing business with the Seattle Housing Authority (SHA). We look forward to doing business with you. If you have any questions about completion of the Vendor Fact Sheet, please call us at (206) 615-3379.

In order for SHA to make payments to you or to procure goods or services from you, we need the information requested on the Vendor Fact Sheet, which also serves as a substitute IRS W-9 Form. The information about you will be entered into our computerized payment system and will allow us to make required reports to the Federal government about our business and payment transactions.

**Substitute IRS Form W-9 Certification:** In completing the Vendor Fact Sheet, you must sign the "Substitute IRS Form W-9 Certification" or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct taxpayer identification number to SHA, you must cross out the portion of the certification after the word "and" in line two, through the end of line five, before signing the form. Detailed instructions about IRS Form W-9 are included on the form, which may be obtained by calling our office at (206) 615-3379 or visiting the IRS web site at [www.irs.gov](http://www.irs.gov).

**Certification of Eligibility:** In order to do business with SHA, the Vendor must be eligible to:

- 1) Be awarded contracts by any agency of the U.S. Government, HUD, or the State in which this Contract work is to be performed; or,
- 2) Participate in HUD programs pursuant to 24 CFR Part 24.

The websites to verify eligibility of the firm and its principals are: <https://www.sam.gov/portal/SAM> and [http://portal.hud.gov/hudportal/HUD?src=/topics/limited\\_denials\\_of\\_participation](http://portal.hud.gov/hudportal/HUD?src=/topics/limited_denials_of_participation). By signing the Vendor Fact Sheet, the Vendor understands that the certification of eligibility is a material representation of fact upon which reliance was placed when SHA agreed to enter into the transaction with the Vendor. SHA may require the Vendor to submit such certification on an annual basis depending on the terms of its contract or the frequency of its business transactions with SHA. If the Vendor subcontracts any portion of the work, the Vendor will be required to submit a similar certification of eligibility to SHA for any Vendor subcontracts. Any written contract executed between SHA and the Vendor shall include these provisions, which may also be referred to as Suspension/Debarment provisions.

**Contract Payments:** Unless SHA grants a waiver, its method of contract payment for contracts of one million or more is through its Bank of America e-payables program. Payments will be made electronically through a virtual Visa credit card. Benefits for using this method include reduced labor costs associated with the processing of checks and enhancing cash flow by eliminating float time associated with the mailing of checks. To learn more about the program, please click here or copy and paste the following URL into your browser: [www.bankofamerica.com/epayablesvendors](http://www.bankofamerica.com/epayablesvendors). For new vendors, SHA will automatically send an enrollment form upon contract award. If you have questions about the program, please contact Brenda Mix, SHA's Accounts Payable Manager, at 206-615-3421 or [bmix@seattlehousing.org](mailto:bmix@seattlehousing.org).

**Small Businesses:** The Vendor Fact Sheet also requests information about whether your business is owned and controlled by women or minorities, and/or is a small business. The following are definitions of these terms for your use. This information provides valuable information to SHA in its efforts to ensure its contracting program meets its diversity objectives and requirements.

- **WMBE:** Minority and women-owned business enterprises must either be self-identified or certified by the Washington State Office of Women's and Minority Business Enterprises (OMWBE) to be at least fifty-one percent owned by women and/or minority group members.
- **Small Business:** A small business means a business concern, including its affiliates, that is independently owned and operated, not an affiliate or subsidiary of a business dominant in its field of operation, and qualified as a small business under the criteria and size standards in 13 CFR 121. Furthermore, a business is considered small according to the Small Business Administration's established guidelines provided to such businesses.
- **HUD Section 3 Business:** A business that is owned 51% or more by a Section 3 qualified person, or where 30% or more of the permanent, full-time employees of the business are Section 3 qualified persons, or where the business can provide evidence of a commitment to subcontract in excess of 25% of the amount of all subcontracts to other Section 3 certified businesses. A Section 3 qualified person must live in the metropolitan statistical areas identified on SHA's Section 3 form and whose income level meets or falls below the stated income limits.

# Seattle Housing Authority

## Section 3 Business Certification

The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed low-and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

**Section 3 Business Criteria:** Your business is eligible for Section 3 Certification if it meets any one of the following criteria. If your business meets one or more of these criteria, please circle the applicable criteria.

1. Fifty-one percent or more of your business is owned and managed by a Section 3 qualified person or persons. (See qualification guidelines below) A completed and signed Individual Certification form for each Section 3 qualified person or persons is required to be submitted.
2. Thirty percent or more of your permanent, full time employees are Section 3 qualified persons. (When seeking certification under this criteria, please submit a listing of all current, permanent, full-time employees, as well as a completed and signed Individual Certification form for each Section 3 qualified employee.)
3. You can provide evidence of a commitment to subcontract in excess of 25 percent of the amount of all subcontracts to Section 3 certified businesses. (When seeking certification under these criteria, please consult with the Section 3 Coordinator regarding the documentation to be submitted.)

**Section 3 Person Criteria:** A Section 3 qualified person must:

- 1) Be a City of Seattle Housing Authority public housing resident; or
- 2) Live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties, and,
- 3) Earn no more than the following amounts for the respective MSA area:

Region/Area	1 Person	2 Persons	3 Persons	4 Persons	5 Persons	6 Persons	7 Persons	8 Persons
King and Snohomish Counties	\$ 56,200	\$64,200	\$ 72,250	\$ 80,250	\$ 86,700	\$ 93,100	\$ 99,550	\$ 105,950
Pierce County	\$ 41,800	\$ 47,800	\$ 53,750	\$ 59,700	\$ 64,500	\$ 69,300	\$74,050	\$ 78,850

**Section 3 Statement:** Please check the appropriate box below.

- My business is eligible to be certified as a Section 3 business in accordance with the criteria circled above under Section 3 Business Criteria.
- My business is not a Section 3 business.

Signature:		Date Signed:
Name:	Title:	
Company Name:		
Address:		
Telephone Number:		

Note: If you certify above that your business is a Section 3 business, SHA will request documentation and additional information as may be reasonably required to certify whether your business qualifies as a Section 3 business.

### Section 3 Resident Employment Plan

Section 3 of the Housing and Urban Development Act of 1968 (hereinafter “Section 3”) requires SHA, to the greatest extent feasible, to provide employment opportunities to “Section 3 residents.” Section 3 residents include residents of SHA communities and other low income residents of the metropolitan statistical area (hereinafter “MSA”) covering King, Snohomish, and Pierce counties. SHA residents, preferably residents of the SHA community in which the work is to be done, are favored over other low-income residents of the MSA.

For construction contracts only:

- Each bidder is required to submit with their bid package a plan which will result in the hiring of Section 3 residents to perform the work contemplated by the bid. SHA has established a goal that 100% of all new hires be Section 3 Residents to the greatest extent feasible.
- At a minimum, the Contractor and its subcontractors shall advertise new positions created in order to perform the work called for herein and will post notices to the Contractor’s commitments under Section 3 in conspicuous places at the work site. In addition, the Contractor must notify each labor organization with whom it or its subcontractors have a collective bargaining agreement or other understanding of these Section 3 commitments.

In order to fulfill its Section 3 obligations, the Contractor may work with service providers on site at various SHA communities including, but not limited to, Neighborhood House and the Employment Opportunities Center. The plan should specify the number of positions the Contractor expects will be created and what minimum qualifications and skills will be required in order to perform the positions. The plan, if applicable, should also address the Contractor’s strategy for recruiting SHA residents for the available positions, which should include consultation with SHA’s Section 3 Coordinator.

1. How many new positions do you expect this contract will require you to create?

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2. Describe each position and provide the name and provide the location of the person(s) taking applications for each such position.

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3. What minimum skills will be required for each position?

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4. Please describe any training opportunities which the contract may create and any agreements concerning training you have.

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5. How will you advertise these positions to SHA residents?

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If you have any questions about this form, please call Cary Calkins at (206) 588-4314.

**SEATTLE HOUSING AUTHORITY**

**SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR CONTRACTOR**

By signing below, the Contractor certifies that to the best of its knowledge and belief neither its firm nor any of its principals as named below are presently debarred, suspended, or have been declared ineligible or are excluded from participation in this transaction by any federal, state or local government.

**Contractor's Firm Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City, State, Zip:** \_\_\_\_\_

	<b>PRINCIPAL(S) Name(s)</b>	<b>Title(s)</b>
1		
2		
3		
4		
5		

<b>Contractor's Signature</b>	<b>Printed Name</b>	<b>Title</b>	<b>Date</b>

**NOTE:** This requirement applies to the Contractor's firm as well as its principals. Principal is defined in the regulation (2 CFR 180.995) as follows:

- 1) An officer, director, owner, partner, principal investigator, or other person within a participant with management or supervisory responsibilities related to a covered transaction; or
- 2) A contractor or other person, whether or not employed by the participant or paid with Federal funds, who-
  - a) Is in a position to handle Federal funds;
  - b) Is in a position to influence or control the use of those funds; or,
  - c) Occupies a technical or professional position capable of substantially influencing the development or outcome of an activity require to perform the covered transaction.

The federal websites to verify eligibility include: <https://www.sam.gov/portal/public/SAM/> and [http://portal.hud.gov/hudportal/HUD?src=/topics/limited\\_denials\\_of\\_participation](http://portal.hud.gov/hudportal/HUD?src=/topics/limited_denials_of_participation).

# SEATTLE HOUSING AUTHORITY

## SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR SUB-CONTRACTORS

*The Prime Contractor may use this form if the Prime can verify that their Sub-Contractors named below, nor any of their principals are debarred, suspended or ineligible from involvement by Federal, State or Local Government. If the Prime is unable to verify this information, the Prime must send the previous SUSPENSION AND DEBARMENT COMPLIANCE CERTIFICATE FOR CONTRACTOR form to each sub- contractor to be completed and returned.*

**Prime Contractor's Name:** \_\_\_\_\_ certifies that neither any of the sub- contracting firms named below, nor any of its principals are debarred, suspended or ineligible from involvement by Federal, State or Local Government. I understand that the Seattle Housing Authority (SHA) relies on this certification and I understand that I am obligated to submit the following to SHA:

- A certification for any new sub- contractor hired after submission of this certification.
- A renewal certification for every sub- contractor on the anniversary of the Contract execution date if the Contract Time extends beyond one year.

**(Note:** In lieu of this certification, the Prime Contractor may elect to submit a separate certification signed by each sub- contracting firm to SHA as evidence of sub- contractor eligibility. It is the Prime Contractor's responsibility to initiate, obtain, and provide all such individual sub- contractor certifications to SHA.)

Prime Contractor's Signature	Printed Name	Title	Date

**Sub- Contractor Firm Listing:** (If sub- contractors are not involved in the project, please enter **NONE.**)


If additional pages are necessary, copy this form to ensure signed statement precedes any listing of sub- contractors.

Please contact Marilyn Westman at 206-615-3395 or by e-mail at [Marilyn.westman@seattlehousing.org](mailto:Marilyn.westman@seattlehousing.org) if you have any questions regarding compliance with this requirement.



## Attachment A, Version 2

(\$35,000 to \$150,000)

### Invitation to Bid (by Fax)

The work described in the Invitation to Bid (by Fax) is subject to the following terms and conditions:

**Bidder Responsibility:** The bidder must meet the mandatory bidder responsibility criteria described below and as specified in RCW 39.04 or 2 CFR 200 in order to be considered a responsible contractor and be eligible for award consideration:

1. At the time of bid submittal, have a current certificate of registration in compliance with chapter 18.27 RCW, which must have been in effect at the time of the bid submittal;
2. Have a current Washington Unified Business Identifier (UBI) number;
3. If applicable:
  - Have Industrial Insurance (workers' compensation) coverage for the bidder's employees working in Washington, as required in Title 51 RCW;
  - Have a Washington Employment Security Department number, as required in Title 50 RCW;
  - Have a Washington Department of Revenue state excise tax registration number, as required in Title 82 RCW;
  - Electrical Contractor License, if required by Chapter 19.28 RCW
  - Elevator Contractor License, if required by Chapter 70.87 RCW
4. Not be disqualified from bidding on any public works contract under RCW 39.06.010 or RCW 39.12.065(3).
5. Has not more than one violation of the off-site, prefabricated, non-standard, project specific items reporting requirements of RCW 39.04.370. (Applicable until December 31, 2013)
6. Has not been debarred, suspended, or otherwise ineligible to contract with SHA and is not included on the Excluded Parties List System (EPLS) on GSA's SAM (System for Award Management) <https://www.sam.gov/portal/public/SAM/> or the Department of Housing and Urban Development's "Limited Denial of Participation" list. This requirement also applies to the Bidder's principals.

**Prevailing Wages:** The Contractor must pay all workers at least the prevailing wage rate for the type of work performed in accordance with the applicable prevailing wage rate schedule referenced on the Purchase Order or Request for Bid (by Fax) form and included in these solicitation documents. The type of wage schedule attached i.e., HUD Determined, Davis-Bacon, or the State Prevailing Wage schedule determines the appropriate labor standards that apply to the work as outlined below and contained in the General Conditions for Construction:

- 1) Part 11.13 for projects subject to the HUD-Determined wage rate schedule.
- 2) Part 11.12 for projects subject to Davis-Bacon wage schedule.
- 3) Part 5 for projects subject to the State prevailing wage schedule.

As part of its compliance with the prevailing wage requirements, the Contractor and, if applicable, subcontractor(s) shall comply with the requirement to submit a Statement of Intent to Pay Prevailing Wages and Affidavit of Wages Paid forms approved by the State of Washington's Department of Labor and Industries. The Owner will notify the Contractor of any special filing instructions that may apply for these forms depending on the funding source(s) of the project.

**Bid Bond:** SHA does not require a bid guarantee for small works roster construction projects estimated to cost \$150,000 or less.

**Insurance:** Within seven calendar days of award, the Contractor shall submit to SHA, and maintain throughout the contract, at no expense to SHA, the following insurance coverage at the limits noted (refer to Part 2 of SHA's General Conditions for more details):

1. Commercial General Liability Insurance. \$1,000,000 each occurrence, and \$2,000,000 aggregate
2. Additional Insured Endorsement Ongoing Operations: The Owner must be included as an Additional Insured on a primary and non-contributory basis on all Commercial General Liability policies of the Contractor. A policy endorsement form CG2010 or equivalent must be provided to Owner as evidence of additional insured coverage.
3. Additional Insured Endorsement Completed Operations: The Contractor's CGL insurance shall include the Owner as an additional insured for Contractors Completed Operations by providing additional insured status on the CG2037 endorsement, or by an equivalent policy or endorsement provision. The Contractors Completed Operations additional insured status for the Owner shall remain in effect for not less than three (3) years following the Final Acceptance of the Work by the Owner.
4. Employers Liability policy or Washington Stop Gap Liability insurance endorsement: \$1,000,000 each accident
5. Workers Compensation coverage.
6. Commercial Automobile Liability Insurance. \$1,000,000 combined single limit coverage
7. Pollution Liability Insurance: \$1,000,000 combined single limit coverage, if the work involves handling or disposal of asbestos, lead-based paint, contaminated soil, or other hazardous materials.

**Performance & Payment Bond Requirements:** Within seven calendar days of award, the Contractor shall submit to SHA, in accordance with Section 2.05 of the General Conditions, a Performance and Payment bond. Failure to furnish a Performance and Payment bond within the time specified may render the Contractor ineligible for the contract. The SHA may then either award the contract to the next lowest responsible bidder or solicit new bids.

**Retainage Requirements:** SHA requires retainage to be withheld for small works roster construction projects costing \$35,000 or more.

**Tax Exempt Status of SHA:** Pursuant to State law (RCW 35.82.210), SHA is exempt from paying sales tax when it obtains goods and services directly from the Contractor. The Contractor must pay sales tax on materials purchased for this job. SHA does not pay sales tax for labor and services rendered.

**Protests:** Any protest of award shall be resolved in accordance with SHA's Procurement Policies, which may be reviewed at the following web site address:

[http://seattlehousing.org/business/guidelines/pdf/Procurement\\_Policies.pdf](http://seattlehousing.org/business/guidelines/pdf/Procurement_Policies.pdf)

**General Conditions:** SHA's General Conditions are hereby incorporated by reference and made a part of this Request for Bid (by Fax) and any subsequent contract or purchase order executed for this work as if fully included herein. If the event of any discrepancy between the terms of this Attachment A and the General Conditions, the terms of the General Conditions shall apply, except that the types and amounts of insurance specified above, and the waiver of the Contract Bond and withholding of retainage specified above, shall take precedence over the General Conditions. The General Conditions may be viewed by accessing the following Internet Web site address:

[http://seattlehousing.org/business/guidelines/pdf/Construction\\_Contract\\_General\\_Conditions.pdf](http://seattlehousing.org/business/guidelines/pdf/Construction_Contract_General_Conditions.pdf), or upon request, a copy of the General Conditions may be obtained by calling SHA at (206) 615-3379.

**Performance Evaluation:** The Contractor's performance on this project will be evaluated in accordance with SHA's Contractor Performance Evaluation Program. A copy of the Program may be obtained by accessing the following website:

[http://seattlehousing.org/business/guidelines/pdf/Performance\\_Evaluation\\_Program.pdf](http://seattlehousing.org/business/guidelines/pdf/Performance_Evaluation_Program.pdf).

**Section 3:** Section 3 of the Housing and Urban Development Act of 1968 (hereinafter "Section 3") requires SHA to the greatest extent feasible to provide employment opportunities to Section 3 residents. Section 3 residents include residents of SHA communities and other low-income residents of the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties. Each bidder is required to submit with its Bid a Section 3 Resident Employment Plan that will result in hiring Section 3 residents to perform the work contemplated by this solicitation, and a Section 3 Business Certification form. Failure to complete these forms may render a bid non-responsive.

- A. Selection Preference for Section 3 Businesses: If a bidder claims to be a Section 3 business on the Section 3 Business Certification form required to be submitted with its Bid, and the Bid of the Section 3 business exceeds the low bid by no more than 10%, SHA will conduct an investigation whether the business qualifies as a Section 3 business, and SHA may award the contract to the Section 3 business at the price bid by the Section 3 business. In submitting a Bid, the bidder agrees to provide any information required by SHA to determine whether the business qualifies as a Section 3 business. A business may qualify as a Section 3 business by meeting one of the following criteria:
1. At least 51% of the business is owned by Section 3 qualified persons who live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties and meet the prescribed income limitations based on family size as shown on the Section 3 Business Certification form.
  2. 30% or more of the business' permanent, full-time employees (core employees within the last 12 months) are Section 3 qualified persons who live in the metropolitan statistical area (MSA) covering King, Snohomish, and Pierce counties and meet the prescribed income limitations based on family size as shown on the Section 3 Business Certification form.
  3. The business makes a commitment to subcontract with Section 3 businesses for more than 25% of the dollar amount of all subcontracts to be awarded by the business. Prior to award, such businesses must submit a plan and the necessary support documents describing how the subcontracting commitment will be met. SHA will evaluate the plan and documents submitted and determine whether it is likely the bidder will attain the subcontracting percentage. SHA will monitor the Section 3 business' compliance with their subcontracting commitment. The bidder's failure to fulfill the Section 3 subcontracting commitment shall be a material breach of contract which may result in SHA taking any or all of the following actions: (1) demanding specific performance of the subcontracting plan; (2) withholding from contract payments the dollar amount of any or all subcontracts that were to have been awarded to Section 3 businesses or such lesser amount as may be appropriate; (3) withholding any liquidated damages that SHA may incur as a result of the bidder's failure to comply with its Section 3 commitment and subcontracting plan; and (4) declaring the bidder ineligible to compete for, or participate in, any SHA contract for a period of five years from the acceptance date of the contract in which the Section 3 subcontracting commitment was made.
- B. Section 3 Contract Language: The following language regarding Section 3 will be included as part of the contract to be executed based on this solicitation.
1. The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.
  2. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.
  3. The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.
  4. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an

applicable provision of the subcontractor in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

5. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractors obligations under 24 CFR part 135.
6. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.
7. With respect to work performed in connection with Section 3-covered Indian Housing Assistance, Section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this Contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this Contract that are subject to the provisions of Section 3 and Section 7(b) agree to comply with Section 3 to the maximum extent feasible, but not in derogation of compliance with Section 7(b).
8. If the Contractor is a Section 3 business and was awarded the contract by SHA based on the Section 3 business preference requirements of the invitation to bid for committing to subcontract more than 25% of the dollar amount of all subcontracts to Section 3 businesses, the Contractor agrees to meet the Section 3 subcontracting commitment. Failure of the Contractor to fulfill the Section 3 subcontracting commitment shall be deemed a material breach of contract, which may result in SHA taking any or all of the following actions: (1) demanding specific performance of the subcontracting plan; (2) withholding from contract payments the dollar amount of any or all subcontracts that were to have been awarded to Section 3 businesses or such lesser amount as may be appropriate, (3) withholding any liquidated damages that SHA may incur as a result of the Contractor's failure to comply with its Section 3 commitment and subcontracting plan; and (4) declaring the Contractor ineligible to compete for, or participate in, any SHA contract for a period of five years from the acceptance date of the contract in which the Section 3 subcontracting commitment was made.

**Contract No. 5154**

**CONSTRUCTION AND MAINTENANCE SERVICES**

for

**Montridge Arms Storm Water Management**

This Contract is made and entered into as of the last signature date below between the Seattle Housing Authority, a public body corporate and politic, hereinafter referred to as "Owner," and TBD, hereinafter referred to as the "Contractor." The Contractor and the Owner agree as follows:

**SECTION 1:** This Contract incorporates by reference and is subject to the following as though fully included herein, whether attached or not attached:

- The Contractor's response to the Request for Bids (by Fax) (attached)
- Attachment A, version 2 (attached)
- Technical scope of work included as part of the Request for Bids
- Owner's General Conditions
- Prevailing wage rates as established in 2019 HUD Determined Non Routine Wages (attached)

**SECTION 2:** The Contractor shall perform or cause to be performed all work and shall furnish or cause to be furnished all labor, materials, tools, and equipment necessary to complete the above-referenced project in strict accordance with the Contract Documents and documents described in Section 1 above for the following Contract Sum:

Base Bid	\$
Sales Tax	\$
Contract Sum	\$

**SECTION 3:** The Contractor shall begin the work of the Contract immediately after receipt of a written Notice to Proceed issued by the Owner, and to perform the work regularly and without interruption thereafter (unless the Owner shall otherwise, in writing, specifically direct) with such forces as necessary to complete said work in a manner acceptable to the owner within xx consecutive calendar days from the date of the Notice to Proceed.

The parties have executed this Contract by having their authorized representatives sign below.

**Seattle Housing Authority**  
190 Queen Anne Avenue North  
P.O. Box 19028  
Seattle, WA 98109-1028

By: \_\_\_\_\_  
Date

By: \_\_\_\_\_  
Date  
Andrew J Lofton, Executive Director



**Maintenance Wage Rate Decision**

**U.S. Department of Housing and  
Urban Development  
Office of Labor Relations**

**HUD FORM 52158  
(06/2006)**

Agency Name:  
**Seattle Housing Authority  
190 Queen Anne North  
Seattle, WA 98109**

LR 2000 Agency ID No:  
**WA002A**

Wage Decision Type:  
 Routine Maintenance  
 Nonroutine Maintenance

Effective Date:  
**January 1, 2018**

Expiration Date:  
**Until further notice  
(Pending new CBA)**

The following wage rate determination is made pursuant to Section 12(a) of the U.S. Housing Act of 1937, as amended, (public housing agencies), or pursuant to Section 104(b) of the Native American Housing Assistance and Self-determination Act of 1996, as amended, (Indian housing agencies). The agency and its contractors may pay to maintenance laborers and mechanics no less than the wage rate(s) indicated for the type of work they actually perform.

**Eugene Hairston, SLRS**  
\_\_\_\_\_  
HUD Labor Relations  
(Name, Title, Signature)

**12-20-2018**  
\_\_\_\_\_  
Date

WORK CLASSIFICATION(S)	HOURLY WAGE RATES	
	BASIC WAGE	FRINGE BENEFIT(S) (if any)
Elevator Mechanic	\$52.50	\$21.22
Sheet Metal Worker	\$26.44	\$14.50
Furnace Installer	\$32.42	\$16.05
Roofer	\$24.73	\$14.06
Truck Driver	\$22.48	\$13.48
Laborer	\$21.66	\$15.10
Asphalt Raker	\$20.84	\$13.06
Carpenter	\$26.67	\$17.23
Electrician	\$32.68	\$18.05
Floor Coverer	\$19.79	\$16.01
Glazier	\$25.66	\$17.14
Painter	\$19.16	\$16.01
Low Voltage Technician	\$23.98	\$13.87
Plumber	\$29.82	\$18.05
Tree Arborist	\$23.77	\$13.82
Landscaper	\$15.43	\$13.05
Fence Installer	\$21.73	\$13.29
Power Equipment Operator	\$32.35	\$16.03
Brick Mason	\$32.95	\$16.18

The agency employee benefit program has been determined by HUD to be acceptable for meeting the prevailing fringe benefit requirements.

(HUD Labor Relations: If applicable, check box and initial below.)

\_\_\_\_\_  
LR Staff Initial

**FOR HUD USE ONLY**

**LR2000:**

**Log in:**

**Maintenance Wage Rate Decision**

**U.S. Department of Housing and  
Urban Development  
Office of Labor Relations**

**HUD FORM 52158  
(06/2006)**

Agency Name:  
**Seattle Housing Authority  
190 Queen Anne North  
Seattle, WA 98109**

LR 2000 Agency ID No:  
**WA002A**

Wage Decision Type:  
 Routine Maintenance  
 Nonroutine Maintenance

Effective Date:  
**January 1, 2018**

Expiration Date:  
**Until further notice  
(Pending new CBA)**

The following wage rate determination is made pursuant to Section 12(a) of the U.S. Housing Act of 1937, as amended, (public housing agencies), or pursuant to Section 104(b) of the Native American Housing Assistance and Self-determination Act of 1996, as amended, (Indian housing agencies). The agency and its contractors may pay to maintenance laborers and mechanics no less than the wage rate(s) indicated for the type of work they actually perform.

**Eugene Hairston, SLRS**  
\_\_\_\_\_  
HUD Labor Relations  
(Name, Title, Signature)

**12-20-2018**  
\_\_\_\_\_  
Date

WORK CLASSIFICATION(S)	HOURLY WAGE RATES	
	BASIC WAGE	FRINGE BENEFIT(S) (if any)
continued - Page 2		
Pipe Layer	\$36.41	\$10.99
Vehicle Mechanic	\$21.44	\$16.71
Engineer	\$40.19	\$18.05
Pest Control Technician	\$20.48	\$16.01
Solid Waste Laborer	\$19.20	\$15.24
Solid Waste Vehicle Mechanic	\$27.34	\$17.16
Solid Waste Worker, CDL	\$21.12	\$16.97
Window cleaner:		
Scaffold	\$14.77	\$11.48
Non-Scaffold	\$14.77	\$11.48
		<input type="checkbox"/> The agency employee benefit program has been determined by HUD to be acceptable for meeting the prevailing fringe benefit requirements.  (HUD Labor Relations: If applicable, check box and initial below.)  _____ LR Staff Initial

**FOR HUD USE ONLY**  
**LR2000:**  
  
**Log in:**  
  
**Log out:**

Solicitation 5154  
Montridge Arms Storm Water Management

9. Wage Determination – HUD Non Routine Maintenance Wages
- See General Conditions Section 11.13 HUD Determined Non Routine Maintenance wages and
  - Statement of Intent & Affidavit of Wages Paid filed with WA State Labor & Industries.

Project Specifications

10. Division 1 – General Requirements
- Section 01 10 00 Summary
  - Section 01 11 00 Hazardous Materials
- Division 2-33 Technical Specifications
- Section 03 30 00 Cast in Place Concrete
  - Section 22 00 00 General plumbing Requirements
  - Section 31 50 00 Excavation Support & Protection
  - Section 32 12 16 Asphalt concrete Paving
  - Sketches Montridge Arms (2 pages)

## SECTION 011000 - SUMMARY

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. General provisions of the Contract, including General Conditions, Attachment A-Version 2, and other Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Work covered by the Contract Documents.
  - 2. Type of the Contract.
  - 3. Use of premises.
  - 4. Owner's occupancy requirements.
  - 5. Work restrictions.
  - 6. Specification formats and conventions.
  - 7. Permits.
  - 8. Governing Codes and Regulations.
  - 9. Preconstruction Conference.

#### 1.3 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: **Montridge Arms Storm Water Management**
  - 1. Project Location: **9000 20Ave SW, Seattle, WA, 98106**
- B. Owner: Seattle Housing Authority, 190 Queen Anne Ave. N., P.O. Box 19028, Seattle, WA, 98109-1028
  - 1. Owner's Representative:
    - a. **Ricky Phillips, Construction Project Manager.**  
**ricky.phillips@seattlehousing.org**
- C. The Work consists of the following:
  - 1. The Contractor will provide all labor, new materials, permits, and equipment necessary to perform all work. The work includes but is not limited to:
    - a. Saw cutting and removal of asphalt adjacent to building at east parking lot.
    - b. Excavate and remove existing soils at this location to a depth that exposes the existing building footing.
    - c. Install drainage mat water proofing membrane on foundation wall.
    - d. Install new tight line system to tie into existing catch basin.
    - e. Provide new filter fabric and drainage at building perimeter.
    - f. Provide new suitable soils as back fill.

- g. Provide new sub grade material and asphalt.

2. Scope of Work Details:

**Existing Conditions**

- Montridge Arms is a four-story, wood framed building clad with marble-crete. The building is built on an elevation change to where the main entrance located at the west elevation of the building is on the lowest level. The east elevation of the building has a parking lot and is accessed through a paved alley way. There are three building entry locations at the east elevation of the building.
- The existing asphalt is placed in a manner that abuts directly to the building. The existing asphalt surface has alligating and cracking, but also has positive slope away from the building to a central catch basin located about center of the parking lot located at east elevation of property.
- There is a membrane/waterproofing installed at the building perimeter to seal the cold joint between asphalt and the building. This membrane will need to be cut at the cold joint, dispose of the membrane that is connected to the asphalt and concrete only, membrane adhered to building shall remain in place.
- Down spouts daylight onto the parking lot, water from the roof flows in close proximity to the building causing concentration of water at the building perimeter.
- Dumpsters will need to be relocated to an area at the east parking lot so that waste management services can access.
- All building dimensions **must** be field verified by contractor. Do not scale plans.
- All quantities of materials to be replaced or altered **must** be field verified by contractor.
- Understand that all work items listed in this document as well as the plans and specifications are all-inclusive and are complete turnkey systems. Contractor to provide all materials, unless stated otherwise. All tasks must be complete with uniform fit, function, form, style, and type. **Units will be occupied at all times during construction.**

**Selective Demo**

- Existing wheel stops: Remove wheel stops where digging and asphalt replacement will occur. Retain wheel stops for reinstallation, there are approximately 36-wheel stops. Remove and dispose of metal posts used to secure wheel stops in place. Wheel stops can be stored onsite at a location approved by owner.
- Saw cutting: Cut and remove asphalt as needed starting from each of the roof down spouts (four total) and ending at the catch basin located center of parking lot area. Width of saw cut area should be approximately two-feet in width. Trench depth should be so that a positive slope of no less than 1% can be achieved from each down spout to the catch basin. Depth of existing asphalt is assumed to be four-inches thick with four-inches of sub base material below asphalt.
- At south east corner of the east parking lot, there is an existing concrete pad placed for the garbage, recycling, and compost containers. Assume the concrete is six-inches thick with rebar reinforcements and four-inches of compacted sub base material. Chain link posts are wet set into concrete pad. Existing chain link fence fabric can be removed and salvaged for reinstallation. Chain link fence

posts in area of saw cutting and trenching may be retained for reinstallation as well unless posts are damaged during selective demolition.

- Excavation: After cut asphalt and concrete is removed, excavated soils can be retained on site to be used for back filling trenches. Trench depth should be so that a positive slope of no less than 1% can be achieved from each down spout to the catch basin.
- Contractor to provide shoring as needed for performing work in trench.
- Work at Catch Basin: Catch basin is approximately 24" x 30" x 48" deep. Cut asphalt and remove asphalt at catch basin located in parking lot area. Remove four-feet of asphalt at all sides of the catch basin rim. After asphalt is removed, excavate around catch basin, demo existing riser bricks and mortar (four-rows of riser bricks are existing) and clean catch basin to accept new riser bricks and mortar. Cut penetration into catch basin as needed to tie in down spout drain. Place new riser bricks and mortar into place. Backfill and compact soils. Tamp backfill material in six-inch lifts for proper compaction. Trench will be back filled to a depth that will allow six-inches of compacted sub base and three-inches of new asphalt to be placed. All backfill and sub base material must meet minimum compaction of 95%.

### **Installation**

- Six-Inch Tight Line: Contractor to provide and install new six-inch solid-wall schedule-40 PVC tight line system. New tight line system will connect the four existing 3"x 5" metal down spouts, to the catch basin in the parking lot. Installation shall include all pipe, fittings, primers, and adhesives necessary to correctly install the drain pipe.
- Tight line connection to down spout should be approximately eight-inches to ten-inches above finished asphalt. Contractor to provide adapter fitting to connect 3" x 5" square down spout to 6"-round drain pipe at all four locations.
- Bedding and Backfilling: Bed new tight line drain pipe per code. Use excavated soils for back fill at trench areas. Tamp backfill material in six-inch lifts for proper compaction. Trench will be back filled to a depth that will allow six-inches of compacted sub base and three-inches of new asphalt to be placed. All backfill and sub base material must meet minimum compaction of 95%.

### **Concrete**

- At concrete garbage container area, Contractor to place new concrete at trenched area. Concrete shall be minimum of 3000psi and shall be of same thickness as existing concrete pad; assume existing slab is six-inches thick.
- Before placing new concrete, contractor shall dowel and epoxy new #4 rebar at mid-thickness of existing concrete. Rebar shall be doweled in at minimum six-inch depth, 18-inches O.C, and six-inches from edge of existing concrete. New rebar dowels shall be epoxied in place.
- Contractor to provide and install expansion joint at cold joint of existing concrete pad and at foundation wall.

- Finish of new concrete shall match adjacent existing concrete finish; assume medium broom finish with four-inch shined edge, ½” radius.
- Contractor to pressure wash entire concrete pad.

### **Asphalt**

- Cut out and removal of asphalt pavement in areas designated on the drawings, replace per thickness designated on drawings.
- Sealcoat parking lot in areas designated on drawing, prep asphalt per manufacturers specifications, fill any cracks as need, seal all oil spots prior to application of the sealcoat material.
- Fill, compact and prep for new asphalt per the specifications.
- Reconstruct catch basins, install risers for catch basins so finish height is within industry standards of finish asphalt surface.
- Remove and reset existing wheelstops to re-surface parking lots.
- Construct speed bumps as designated on the drawings and in the specifications.
- Re-stripe parking areas to original configuration unless designated in the drawings or instructed by the Owner. Parking stall lines and walkway stripes will be white, unless otherwise directed by the Owner.

### **Final cleaning**

- Restore all disturbed areas once construction is complete.
- Completely clean all areas impacted by construction work, remove all debris, materials, equipment, and temporary use areas upon completion.

### **General Notes**

- Contractor to provide preliminary project schedule submitted at time of bid opening, this is mandatory. Schedule should be in MS Project or Primavera and shall identify project duration, task duration, and include start and stop dates.
- It will be the Contractor’s responsibility to conduct public and private locates prior to any land disturbing activity.
- Maintain access into buildings for mail delivery and emergency access during construction activities at main building entrances.
- Power & water to be provided by contractor. No onsite power or water is provided.
- Landscape restoration to be included with this project and to be restored to current conditions.
- 48-Hour Notices required for posting before entering units, unless deemed as an emergency.
- No contractor parking on site, street parking is available.
- No smoking allowed on property by Contractor or Subcontractors.

D. Contractor shall field verify all measurements and site conditions.

E. Contractor will make provisions to protect building, landscaping and vegetation per Owners directive.

1.4 TYPE OF CONTRACT

- A. Project will be constructed under a single-prime, general construction contract.
- B. The Contractor shall use Prevailing Wage rates when determining bid and for payment purposes to all eligible employees, as required by law.
- C. Sales Tax: charged to materials only.

1.5 USE OF PREMISES

- A. General: Contractor shall have full use of premises for construction operations, including use of Project site, during construction period. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
  - 1. Owner Occupancy: Allow for Owner occupancy of Project site.
  - 2. Driveways and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Contact the owner for placement location of waste containers and storage materials in the building parking areas. Inspection of asphalt and concrete surface prior to Work and at completion of work will be conducted by owner and contractor. Damage to asphalt from work will be repaired by the Contractor, solely at the Contractor expense, to Owner's satisfaction.
    - a. Schedule deliveries to minimize use of driveways and entrances.
    - b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
  - 3. Parking: parking is not available in building parking lot.
  - 4. Parking is available on street on a first come first serve basis.

1.6 OWNER'S OCCUPANCY REQUIREMENTS

- A. Full Owner Occupancy: Owner will occupy site and existing buildings during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits, unless otherwise indicated.
  - 1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
  - 2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.



## 1.7 WORK RESTRICTIONS

- A. On-Site Work Hours: Work shall be generally performed during normal business working hours of 8 a.m. to 5:00 p.m., Monday through Friday, unless otherwise indicated.
1. Weekend Hours: No weekend work permitted without owner permission.
  2. Seattle Housing Authority Holidays: No work can be performed on the following SHA Holidays.
    - a. New Year's Day
    - b. Martin Luther King Jr.'s Birthday Day
    - c. President's Day
    - d. Memorial Day
    - e. Independence Day
    - f. Labor Day
    - g. Thanksgiving Day (and day following Thanksgiving Day)
    - h. Christmas Day

## 1.8 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Format: The Specifications are organized into Divisions and Sections using the 50-division format and CSI/CSC's "MasterFormat" numbering system.
- B. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires. Singular words shall be interpreted as plural and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates.

<u>Item</u>	<u>Meaning</u>
Accepted	Reviewed with no exceptions taken to submittal material. See "Submittal".
Approved	Inspected and accepted by the Authority Having Jurisdiction.
Furnish	Deliver to the jobsite.
Install	To enter permanently into the project and make fully operational.
Provide	Furnish and install.
Required	As required by code, Authority Having Jurisdiction or contract documents
	For the particular installation to be fully operational.
Shown	As indicated on the drawings or details.
AHJ	Authority having jurisdiction.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
  - a. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.

#### 1.9 PERMITS

- A. It is the Contractor's responsibility to obtain all necessary permits and inspections as may be required to perform all aspects of the required work for this project including Right of Way and Street Use. The cost of any such permits and associated fees is to be included in the Contractor's bid amount.
- B. Contractor shall arrange for and supply personnel for inspections of work by all AHJ Inspectors (including building permit inspections) and shall give the inspectors all necessary assistance in their work of inspection as required.

#### 1.10 GOVERNING CODES AND REGULATIONS

- A. The work shall be performed in accordance with applicable codes, and regulations. If any conflict occurs between government-adopted laws and drawings and this Specification, the laws are to govern. Nothing in the drawing or these specifications shall be construed to permit work not conforming to the governing laws. The preceding sentence shall not be construed as relieving the Contractor from complying with any requirements of those herein before mentioned governing laws and rules and not contrary to same.
- B. The Contractor is required to be familiar with the details of these standards and any local codes and ordinances as they affect the installation of specific systems. The edition of the appropriate code or standard current at commencement of installation shall govern all installations.

#### 1.11 PRECONSTRUCTION CONFERENCE

- A. Attend a pre-construction conference before starting any work at a time agreed upon by both parties. The meeting agenda will be to review responsibilities and personnel assignments.
- B. Agenda: Discuss items of significance that could affect progress, including the following:
  1. Construction schedule.
  2. Designation of responsible personnel.
  3. Use of premises.
  4. Parking availability.
  5. Storage areas.

6. Equipment deliveries and priorities.
7. Safety procedures.
8. First Aid.
9. Security.
10. Working hours.

END OF SECTION 011000

## SECTION 01 11 00 – SUMMARY OF HAZARDOUS MATERIALS

### PART 1 – GENERAL

#### RELATED DOCUMENTS:

Drawings and general provisions of the Contract, including General Conditions and Division 0 and Division 1 Specification Sections, apply to this Section.

#### 1.01 DESCRIPTION

- A. SHA is not aware of any asbestos, ACM's, lead paint or other hazardous materials needing special handling or disposal at the Seattle Housing Authority Michaelson Manor Rehabilitation Project. Stucco and drywall/joint compound have not been tested for asbestos or ACM's except as noted in the attached test results. Michaelson Manor is a Senior Housing building and to date no hazardous materials have been discovered at similar buildings in this portfolio.

#### 1.02 GENERAL REQUIREMENTS

- A. SUPERVISORY AUTHORITY: The Contractor is to avail themselves of all responsibilities under applicable regulations related to their supervisory authority over sub-contractors and personnel performing work related to hazardous materials.
- B. ACCESS RESTRICTIONS: Work described in this Section includes restriction of access to work areas during hazardous materials activities. Access to various work areas by the residents, general public, general trades and other individuals will not be possible during certain hazardous materials work sequences should this arise. The Contractor is to coordinate the Work to facilitate access by sub-contractors while enforcing work area restrictions, and to minimize disruption to building occupants and services.
- C. WORKING HOURS: Hazardous materials work, should it arise, can occur during normal facility working hours when building users have no access to work areas or dwelling units where hazardous materials work is to occur. Specific requirements related to normal work hours are included elsewhere.

#### 1.04 ASBESTOS

- A. Asbestos abatement is not included in this contract.
- B. The Contractor shall be aware that should ACMs exist in inaccessible locations of the spaces included in the Work, and in areas of the buildings not included in the Work the Contractor shall immediately notify the Owner's Representative. The Contractor shall proceed with caution during all phases of the Work.

- D. The Contractor is advised that, should ACMs be encountered, the Owner may elect to include the abatement of such materials in the work at a mutually agreed upon price. Work impacting such materials is not to occur prior to the Contractor receiving explicit written authorization from the Owner, and any Work performed without such approval is performed at the Contractor's own risk and expense.
- E. The disturbance or impact of ACMs may cause asbestos fibers to be released into the building's atmosphere, thereby creating a potential health hazard to building occupants. Where in the performance of the Work, workers, supervisory personnel, subcontractors, or consultants encounter any unidentified ACMs, Contractor shall take appropriate continuous measures, as necessary, to protect all building occupants from the potential hazard of exposure to airborne asbestos. Such measures shall include the procedures and methods described herein, and compliance with applicable local, state and federal regulations.

1.05 LEAD

- A. Lead-containing items: None of the painted coatings contain lead to owner's knowledge.

PART 2 – PRODUCTS

Not Used.

PART 3 – EXECUTION

Not Used.

END OF SECTION 01 11 00

## **SECTION 033000 – CAST-IN-PLACE CONCRETE**

### **PART 1 –GENERAL**

#### **1.01 RELATED DOCUMENTS**

- A. References and standards listed herein are to be the latest edition available, unless specifically stated otherwise.

#### **1.02 SUMMARY**

- A. This section includes cast-in-place concrete for concrete walkways, including reinforcement, concrete materials, mix design, placement procedures, and finishes.

#### **1.03 SUBMITTALS**

- A. Product Data: For each manufactured material and product indicated.
- B. Design Mixes: For each concrete mix indicated.
- C. Shop Drawings: Include details of steel reinforcement size, placement, and embedment into adjacent concrete surfaces.
- D. Material certificates and test reports.

#### **1.04 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.
- B. Comply with ACI 301, "Specification for Structural Concrete," including the following, unless modified by the requirements of the contract documents.
  - 1. General requirements, including submittals, quality assurance, acceptance of structure, and protection of in-place concrete.
  - 2. Formwork and form accessories.
  - 3. Steel reinforcement and supports.
  - 4. Concrete mixtures.
  - 5. Handling, placing, and constructing concrete.
- C. Preinstallation Conference: Conduct conference at project site.

### **PART 2 –PRODUCTS**

#### **2.01 MATERIALS**

- A. Formwork: Furnish formwork and form accessories according to ACI 301.

- B. Steel Reinforcement
    - 1. Reinforcing Bars: ASTM A 615/A 615M, Grade 60, deformed.
    - 2. Deformed Bar Anchors: ASTM A 496.
  - C. Concrete Materials
    - 1. Portland Cement: ASTM C 150, Type I or II or I/II.
    - 2. Normal Weight Aggregate: ASTM C 33, uniformly graded, not exceeding 3/4-inch nominal size.
    - 3. Lightweight Aggregate: ASTM C 330.
    - 4. Water: Complying with ASTM C 94.
  - D. Admixtures
    - 1. Air-Entraining Admixture: ASTM C 260.
    - 2. Water-Reducing Admixture: ASTM C 494, Type A.
    - 3. High Range, Water-Reducing Admixture: ASTM C 494, Type F.
    - 4. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E.
    - 5. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.
  - E. Fine-Graded Granular Material: Clean mixture of crushed stone, crushed gravel, and manufactured or natural sand; ASTM D 448, Size 10, with 100 percent passing a No. 4 sieve and 10 to 30 percent passing a No. 100 sieve; complying with deleterious substance limits of ASTM C 33 for fine aggregates.
  - F. Joint Filler Strips: ASTM D 1751, asphalt-saturated cellulosic fiber.
  - G. Curing Materials
    - 1. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
    - 2. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf.
    - 3. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap polyethylene sheet.
    - 4. Water: Potable.
- 2.02 CONCRETE MIXES
- A. Comply with ACI 301 requirements for concrete mixtures.
  - B. Prepare design mixes, proportioned according to ACI 301, for normal weight concrete determined by either laboratory trial mix or field test data bases, as follows:
    - 1. Compressive Strength (28 Days): as indicated on the drawings.
    - 2. Slump: 4 inches.

- C. Add air-entraining admixture at manufacturer's prescribed rate to result in concrete at point of placement having an air content of 5.0 percent within a tolerance of plus 1.0 or minus 1.5 percent.

1. Air content of trowel-finished interior concrete floors shall not exceed 3.0 percent.

## 2.03 CONCRETE MIXING

- A. Ready-Mixed Concrete: Comply with ASTM C 94.

1. When air temperature is between 85 and 90 degrees F, reduce mixing and delivery time from 1 1/2 hours to 75 minutes. When air temperature is above 90 degrees F, reduce mixing and delivery time to 60 minutes.

- B. Provide batch ticket for each batch discharged and used in the work, indicating project identification name and number, date, mix type, mix time, quantity, and amount of water added.  
Record approximate location of final deposit in structure.

## PART 3 –EXECUTION

### 3.01 INSTALLATION, GENERAL

- A. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301.

- B. Vapor Retarder: Install, protect, and repair vapor retarder sheets according to ASTM E 1643. Place sheets in position with longest dimension parallel with direction of pour.

1. Lap joints 6 inches and seal with manufacturer's recommended tape.

2. Cover vapor retarder with fine-graded granular material, moisten, and compact with mechanical equipment to elevation tolerances of plus 0-inch or 3/4-inch.

- C. Steel Reinforcement: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

- D. Joints: Construct joints true to line with faces perpendicular to surface plane of concrete.

1. Construction Joints: Locate and install so as not to impair strength or appearance of concrete at locations indicated.

2. Isolation Joints: Install joint filler strips at junctions with slabs-on-grade and vertical surfaces, such as column pedestals, foundation walls, grade beams, and other



- locations,  
as indicated.
- a. Extend joint fillers full width and depth of joint, terminating flush with finished concrete surface, unless otherwise indicated.
3. Contraction Joints in Slabs-on-Grade: Form weakened plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness, as follows:
- a. Grooved Joints: Form contraction joints after initial floating by grooving and finishing each edge of joint with groover tool to a radius of 1/8-inch. Repeat grooving of contraction joints after applying surface finishes. Eliminate groover marks on concrete surfaces.
  - b. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- E. Tolerances: Comply with ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."

### 3.02 CONCRETE PLACEMENT

- A. Comply with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.
- B. Do not add water to concrete during delivery at the project site or during placement.
- C. Consolidate concrete with mechanical vibrating equipment.

### 3.03 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defective areas repaired and patched, and fins and other projections exceeding 1/4-inch in height rubbed down or chipped off.
  1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defective areas. Completely remove fins and other projections.
  1. Apply to concrete surfaces exposed to public view or to be covered with a coating or covering material applied directly to concrete, such as waterproofing, dampproofing, veneer plaster, or painting.

2. Do not apply rubbed finish to smooth-formed finish.
3. Apply grout-cleaned finish, defined in ACI 301, to smooth-formed finished concrete.

C. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces, unless otherwise indicated.

### 3.04 FINISHING UNFORMED SURFACES

A. General: Comply with ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.

B. Trowel Finish:

1. Consolidate the concrete surface by suitable methods to produce surfaces free of trowel marks, uniform in texture and appearance and with a surface plane tolerance not exceeding 1/8 inch in 10 feet when tested with a 10 foot straight edge. Grind smooth surface defects which would telegraph through applied floor covering system.

C. At electrical and mechanical items in concrete slabs, carefully hand finish at least 24 inches around recessed items so that the top of the fill and the electrical devices are flush after the concrete has set.

### 3.05 CONCRETE PROTECTION AND CURING

A. General: Protect freshly placed concrete from premature drying, and excessive cold or hot temperatures. Comply with ACI 306.1 for cold weather protection and follow recommendations in ACI 305R for hot weather protection during curing.

B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions occur before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

C. Begin curing after finishing concrete, but not before free water has disappeared from concrete surface.

D. Cure formed and unformed concrete for at least 7 days as follows:

1. Moisture Curing: Keep surfaces continuously moist with water, continuous water fog spray, or absorptive cover, water-saturated and kept continuously wet.

2. Moisture-Retaining Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

END OF SECTION

## SECTION 220000 GENERAL PLUMBING REQUIREMENTS

### PART 1 – GENERAL

#### 1.1 INTRODUCTION

- A. Section Includes
1. The purpose of this section is to define the design approach upon which the mechanical design/build is to base his bid and establish the design criteria, and design submittals, which will be required in the preparation and execution of the design.
  2. All work under this section must meet the minimum construction requirements as specified in the CSI Master Format.

#### 1.2 APPLICABLE CODES & STANDARD

- A. Design shall comply with rules and regulations of the following:
1. 2015 Seattle Energy Code (SEC)
  2. 2015 International Mechanical code (IMC) with City of Seattle Amendments
  3. 2015 International Fuel gas code (IFGC) with City of Seattle Amendments
  4. 2015 International Fire code (IFC) with City of Seattle Amendments
  5. 2015 Seattle Building Code (SBC)
  6. 2015 International Building Code (IBC) with City of Seattle Amendments
  7. 2015 Washington State Plumbing Code (WSPC) with City of Seattle Amendments
  8. National Fire Protection Association (NFPA)
  9. 2008 WAC 296 Installation 46B Electrical Safety
  10. 2014 National Electrical Code (NEC) with City of Seattle Amendments
  11. National Electrical Manufacturers Association (NEMA)
  12. WA State Underground Damage Prevention Act ('Call Before you Dig') – RCW 19.122
  13. Federal Americans With Disabilities Act (ADA)
  14. All other applicable local jurisdiction amendments.

#### 1.3 PROJECT DELIVERY

- A. This project is to be delivered complete. The Plumbing Contractor responsible for all Plumbing systems (referred to herein as the PC) shall use the provided plumbing drawings as reference information. Drawings do not represent exact location of waste lines. PC shall provide information showing actual locations of waste lines and points of connection between new and existing work through as-built drawings at end of project.
- B. The PC is encouraged to provide voluntary alternates beyond the specific scope outlined in this narrative and the accompanying drawings.
- C. The PC will provide bid response that covers the complete scope of work required to deliver a fully functional and code compliant project.

- D. Contractor shall attend design coordination meetings as needed.
- E. The architectural floor plans provided are not final. Pricing shall allow for equipment relocations due to minor interior layout modifications.
- F. Submittals, and shop drawings will be reviewed for conformance with the design build bid package as well as conformance with codes and accepted practice. Discrepancies will be noted for team review prior to acceptance.
- G. Complete equipment and materials submittals shall be provided to the owner in both printed and electronic format per the time schedule issued by the Owner. Submittals shall be complete with all components included, installation manuals, and customized to this project's requirements. All submittals require Owner approval prior to purchase. The project specific equipment model numbers, options, and features are to be clearly marked within the literature. Electronic submittals with original PDF's (avoid scanning) are requested for consultant review. Additionally, conformances with Division 1 specifications including hard copy requirements apply.
- H. Construction Administration: The selected Contractor will perform construction administration, including RFI responses, attendance at periodic meetings, formal review and approval of shop drawings and submittals, coordination with other trades, preparation of final punchlist.
- I. All work contracted for must be accepted by all applicable inspectors including Site Superintendent, GC Quality Control Personnel, AHJ's, and Owner.
- J. Warranty period to extend for one year from date that the owner accepts the work. Warranty not applicable to defective items due to faulty work of subsequent trades.
- K. The PC shall submit final as-built drawings to the General Contractor for submittal to Owner within two weeks of project completion or unless alternative timing is agreed to. Drawings shall be provided in PDF format.
- L. Operations and Maintenance Manual: Provide 1 hard copy and 1 electronic copy (PDF) of O&Ms for ALL systems within TWO weeks of substantial completion.
- M. Codes, Permits, Inspections, and Fees:
  - 1. The PC shall obtain all permits and inspections and pay all fees required by State and Local authorities, except as noted.
  - 2. All work and materials shall be in accordance with requirements of all applicable local and state codes, statues, standards and other regulations. Date of regulations shall be as adopted by local authorities at the time of permit intake, unless indicated otherwise.
  - 3. The codes shall be construed as establishing a minimum or base level of requirements. Contract Documents shall not be construed to permit or direct work not in conformance with codes, statues, standards and other regulations. Where provisions of the various regulations conflict with each

other, or with the Contract Documents, the more stringent provisions shall be included in contract pricing. Conflict shall be resolved with the Owner and Authorities Having Jurisdiction (AHJ) prior to completing the design.

4. Where the Contract Documents call for material or construction of a better quality or higher capacity than required by the codes, statues, standards, and other regulations, the provisions of the Contract Documents shall take precedence over the requirements of the codes and standards.
5. Material and equipment within the scope of the UL Testing Laboratory Service shall be listed by the Underwriters Laboratories for the purpose for which they are used and shall bear their listing mark.
6. PC shall call for all inspections by the local code authorities when they become due and shall not cover any work until approved by these authorities.

#### 1.4 MISCELLANEOUS SCOPE ITEMS:

- A. The structural engineer is responsible for all structural calculations required for the supporting structure for permit intake.
- B. PC is to provide and install fire stopping of all through and membrane penetrations as required by the IBC and other applicable codes. Floor penetrations to include a watertight seal.
- C. All piping, plumbing, and equipment are to be seismically restrained as required by the 2015 IBC and Seattle Building Code..
- D. All code required access panels in walls and/or ceilings are provided and installed by the plumbing contractor. PC to coordinate required locations and sizes with the GC and the Owner.
- E. The contractors will provide and install phenolic tags identifying each specific piece of equipment where required.

#### 1.5 COORDINATION

- A. All pipe routing and equipment locations shall be coordinated with Owner.
- B. No cutting or drilling of joists or beams will occur without Owner and Structural Engineer approval.
- C. Cutting, framing, patching and painting of wall, ceiling and floor openings shall be by Awarded Contractor.

### PART 2 – PRODUCTS

#### 2.1 PLUMBING SYSTEMS GENERAL

- A. All plumbing products in contact with potable water shall be certified Lead Free and NSF 61/NSF 372 compliant.
- B. All plumbing in areas that contain plenums are to be plenum compatible. No plastic material will be utilized unless noted otherwise.

- C. Plumbing materials are per the materials matrix.
- D. All plumbing is to be pressure tested or flow tested in accordance with code and accepted standards.
- E. All clean outs are to be installed in accessible locations. Plumbing Contractor is to provide access panels and coordinate installation with Owner as required for access to clean outs.
- F. All fixtures shall be provided and installed to comply with Washington State accessibility codes or per other architectural directions.
- G. All fixtures to be provided and installed to comply at a minimum with Washington State water conservation performance standards and UPC maximum flow rate standards.
- H. All water supply and waste and vent piping shall be secured in place with 3/16" neoprene strips wrapped around the pipe at stud penetrations or point of support to prevent direct contact with framing and resultant rattling and vibration.

## 2.2 DOMESTIC WATER PIPING INSULATION

- A. (NOT USED)

## PART 3 – EXECUTION

### 3.1 PREPARATION & INSTALLATION

- A. All work contracted for must be accepted by all applicable inspectors including site superintendent, GC quality control personnel, and Owner.
- B. Piping shall be run concealed in all areas.
- C. As-built drawings: Provide Owner with electronic as-built drawings within two weeks of substantial completion. As-built drawings will reflect all changes from the construction drawing set.
- D. Owner and Maintenance Manual: provide 1 hard copy and 1 electronic copy of O&Ms for all systems. O&M's will also comply with architectural specification sections.

### 3.2 TESTING & INSPECTION

- A. The Plumbing Contractor (PC) is responsible for all test, balance, and startup of plumbing systems.
- B. All plumbing systems are to be tested by the PC as required by the AHJ and Plumbing Codes.
- C. The PC will document deficiencies and provide equipment, materials, and labor necessary to correct deficiencies found during the commissioning process to fulfill contract and warranty requirements.

END OF SECTION

## **SECTION 315000 - EXCAVATION SUPPORT AND PROTECTION**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. This Section includes temporary excavation support and protection systems.

#### **1.2 PERFORMANCE REQUIREMENTS**

- A. Furnish, install, monitor, and maintain excavation support and protection system capable of supporting excavation sidewalls and of resisting soil and hydrostatic pressure and superimposed and construction loads.
  - 1. Install excavation support and protection systems without damaging existing buildings, pavements, and other improvements adjacent to excavation.

#### **1.3 PROJECT CONDITIONS**

- A. Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted in writing by Owner and then only after arranging to provide temporary utility services according to requirements indicated.

### **PART 2 - PRODUCTS**

#### **2.1 (NOT USED)**

### **PART 3 - EXECUTION**

#### **3.1 PREPARATION**

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards that could develop during excavation support and protection system operations.
  - 1. Shore, support, and protect utilities encountered.
- B. Install excavation support and protection systems to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.
  - 1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by authorities having jurisdiction.



- C. Monitor excavation support and protection systems daily during excavation progress and for as long as excavation remains open. Promptly correct bulges, breakage, or other evidence of movement to ensure that excavation support and protection systems remain stable.
- D. Promptly repair damages to adjacent facilities caused by installing excavation support and protection systems.

### 3.2 REMOVAL AND REPAIRS

- A. Remove excavation support and protection systems when construction has progressed sufficiently to support excavation and bear soil and hydrostatic pressures. Remove in stages to avoid disturbing underlying soils or damaging structures, pavements, facilities, and utilities.

END OF SECTION 315000

## SECTION 321216 - ASPHALT CONCRETE PAVING

Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division Specification Sections, apply to this Section.

### PART 1 GENERAL

#### 1.1 DESCRIPTION

Description of Systems:

1. Remove existing asphalt paving in selected areas, improve existing substrate and base, and install new asphalt.

#### 1.2 REFERENCE STANDARDS

- A. Washington State Department of Transportation (WSDOT): APWA Standard Specification for Road, Bridge and Municipal Construction.
- B. WSDOT Standard Plans for Road, Bridge & Municipal Construction.
- C. ASTM D1557 Methods of Test for Moisture-Density Relations of Soils, Using 10 lb. Ram and 18 inch drop.
- D. APWA Designs and Specifications for Asphalt Concrete Pavements and Bases.

#### 1.3 QUALIFICATIONS OF APPLICATOR

- A. Applicator must be capable of demonstrating a minimum of three years successful experience in this trade on projects of similar scale and scope.

#### 1.4 SUBMITTALS

- A. Manufacturer's product information sheets indicating compliance with specifications and listing components, uses and general product information.

#### 1.5 JOB CONDITIONS

- A. Verify that job conditions meet Manufacturer's requirements as to temperature range, presence of moisture or rain and cleanliness of substrates. Do not install products unless appropriate conditions are present.

#### 1.6 GUARANTEE

- A. Subject to (1) one-year guarantee.

### PART 2 PRODUCTS

#### 2.1 GENERAL

- A. Comply with "Quality Control" provisions, "References", Specifications and Manufacturer's data. Where these may be in conflict, the more stringent requirements govern.

- B. Conform to APAW - Section II "Specifications for Asphalt Paving" of above referenced manual. Provide bases, type and thickness of asphalt concrete as required by type of soils for indicated use.

## 2.2 ASPHALT MATERIALS

- A. Asphalt Cement: ASTM D 3381-92 for viscosity-graded material; ASTM D 946-82 for penetration-graded material.

## 2.3 MIXES

- A. Hot-Mix Asphalt: Provide dense, hot-laid, hot-mix asphalt plant mixes approved by authorities having jurisdiction; designed according to procedures in AI's "Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types"; and complying with the following requirements:
  - 1. Provide mixes with a history of satisfactory performance in geographical area where Project is located.

## 2.4 LIQUID ASPHALT

- A. Liquid asphalt for tack coats and treatment of aggregate base shall be Grade MC 250 and shall comply with Section 5-02 of WSDOT-APWA, Class A.

## 2.5 CRACK SEALER

- A. A hot-applied crack sealer meeting requirements of ASTM D-3405 and the recommendations of the seal coating manufacturer.

## 2.6 PAVEMENT PAINT

- A. Pavement paint shall be a white latex traffic paint 21209 by Glidden, Vin-L-Stripe acrylic epoxy traffic paint W-80 1 by Dunn-Edwards or Norline' s Traffic Paint or equal. Use special colors only where designated on plans.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. General: Immediately before placing asphalt materials, remove loose and deleterious material from substrate surfaces. Ensure that prepared sub-grade is ready to receive paving.
  - 1. Sweep loose granular particles from surface of unbound-aggregate base course. Do not dislodge or disturb aggregate embedded in compacted surface of base course.
- B. Preparation of asphalt patches for potholes and severely damaged areas.
  - 1. Where existing asphalt paving is required to be removed due to severe deterioration or sub-surface failure the area shall be removed after cutting the pavement and breaking up the damaged area.

2. The granular base under the removed pavement shall be restored so as to correct the condition that caused the deterioration and or settlement.
- C. Preparation of existing surfaces for overlay.
1. Prepare in accordance with section 5-04.3(5) B of COS. Existing paved areas shall be thoroughly cleaned with a stiff bristled broom and compressed air or a steel bristle broom prior to placement of the overlay.
  2. Soft spots in the existing pavement shall be dug out to a firm foundation. Refill with structural fill, compact and repave to required thickness aligning top.
- D. Preparation of oil and fuel damaged areas.
1. Cut out all fuel and oil damaged areas in lots and driveways that are to be seal coated. Refill with structural fill, compact and repave to required thickness aligning top.
- E. Preparation of surfaces to receive new asphalt surface sealer
1. Make repairs to surface cracks, potholes, oil spots and the like. Be sure to allow 15 days for any new asphalt to cure before applying new surface sealer.
  2. Clean surfaces using steel bristle brooms and pressurized air. If needed to remove all dirt buildup, pressure wash all surfaces.

### 3.2 HOT-MIX ASPHALT PLACING

- A. Machine place hot-mix asphalt mixes on prepared surface, spread uniformly and strike off. Place by hand; asphalt mix to areas inaccessible by equipment that prevents segregation of mix. Place each course to required grade, cross section, and thickness, when compacted.
1. Asphalt mix shall be a minimum of three (3) inches thick.

### 3.3 JOINTS

- A. Construct joints to ensure continuous bond between adjoining paving sections. Construct joints free of depressions with same texture and smoothness as other sections of hot-mix asphalt course. Clean contact surfaces and apply tack coat.

### 3.4 COMPACTION

- A. General: Begin compaction as soon as placed hot-mix paving will bear roller weight without excessive displacement. Compact hot-mix paving with hot, hand tampers or vibratory-plate compactors in areas inaccessible to rollers.
1. Complete compaction before mix temperature cools to 185 Degree F (85 Degree C).
- B. Breakdown Rolling: Accomplish breakdown or initial rolling immediately after rolling joints and outside edge. Examine surface immediately after breakdown rolling for indicated crown, grade, and smoothness. Repair surfaces by

- loosening displaced material, filling with hot-mix asphalt, and re-rolling to required elevations.
- C. Finish Rolling: Finish roll paved surfaces to remove roller marks while hot-mix asphalt is still warm.
  - D. Protection: After final rolling, do not permit vehicular traffic on pavement until it has cooled and hardened. Contractor shall supply barricades to prevent the entry of vehicles and remove barricades when surface has cured.
  - E. Provide barriers as required preventing unauthorized access to construction activities and injury to people and damage to existing equipment and facilities during the course of the work.
  - F. Construct any barriers according to most stringent requirements of regulatory agencies. Provide signage to alert Residents and others at the site of the work activity and any inconveniences or dangers. Comply with City of Seattle Ordinance No. 90047.

### 3.5 INSTALLATION TOLERANCES

- A. Surface Smoothness: Compact each course to produce a surface smoothness within the following tolerances as determined by using a 10-foot (3-m) straightedge applied transversely or longitudinally to paved areas: Base Course: 1/4 inch (6 mm).
- B. The fracture requirement (75% minimum) shall be at least one mechanically fractured face and will apply to material retained on each sieve size No. 10 and above if that sieve retains more than 5% of the total sample. The portion of crushed surfacing retained on a 1/4" square sieve shall not contain more than 0.15% wood waste.

### 3.6 ASPHALT CONCRETE

- A. Aggregate shall be Type Class B, 1/2" maximum medium grading and conforming to Section 9-03.8 of the COS. Asphalt binder shall be paving asphalt, Grade AR-4000, and shall comply with Section 9-02.1 of COS. Asphalt concrete mixing and proportioning shall comply with Section 9-03.8 of the COS.
- B. Grading requirements of Class B shall be sieve analysis-percent passing by weight as follows: 200-3% to 7%, 80-6% to 15%, 40- 11% to 24%, 10- 32% to 48%, 1/4" - 55% to 75%, 3/8" - 75% to 90%, 1/2" - 90% to 100%, 5/8" - 100%, mineral filler - 3% to 7%, Asphalt % of total mixture 4% to 7.5%, sand-silt ratio 5.5% to 10.5%.

### 3.7 INSPECTION

- A. Contractor shall inspect all site conditions and shall determine corrective measures necessary to prepare existing surfaces prior to beginning the work. Beginning work constitutes Contractors acceptance of existing conditions.

### 3.8 AGGREGATE BASE AND TOP COURSE

- A. Place in maximum 4 inch compacted lifts. Comply with Section 4-04 of COS. Relative dry compacted lifts shall be installed at a minimum of 95% of maximum dry density as determined in accordance with ASTM D1557. A 4" top course of 5/8" maximum crushed aggregate, per COS 9.03 .9(3), shall be installed.

Gradation of the top course shall be:

<u>US Standard Sieve Size</u>	<u>Percent Passing by Dry Weight</u>
5/8"	100
1/4"	55-75
No.40	8-24
No.200	10.0 max.

- B. Prior to asphalt concrete placement, the prepared surface shall be prepared to a uniform grade and cross section in accordance with Section 5-04 of COS.

### 3.9 UNTREATED AGGREGATE BASE -

- A. Untreated aggregate base shall be given a penetration treatment with liquid asphalt as specified and in accordance with Section 5-04(5) B of the WSDOT-APWA or an application of weed killer.

### 3.10 ASPHALT CONCRETE:

- A. Placement of asphalt shall be a minimum of two courses and shall be in accordance with Sections 5-04.3(9) and 5-04.3(10).
- B. Joints: Construct according to COS Section 5-04.3(11). Surface smoothness shall be in accordance with COS Section 504.3(13). Paving shall be accomplished in accordance with the weather limitations outlined in COS Section 5-04.3(16).

### 3.11 PAVEMENT, CURB & WHEEL-STOP PAINTING

- A. All striping to be 4" wide unless otherwise indicated.
- B. Where diagonal striping pattern is indicated, space 45 degrees at three feet on center.
- A. Standard lettering and numbering on pavement to be 12" high capital letters applied in straight evenly spaced format using stencils in white traffic paint unless otherwise indicated.
- B. Paint entry curbs yellow all others will be white unless otherwise directed. Fire lane stripes, curbs and letters will be red unless otherwise indicated.

### 3.12 WHEEL STOP INSTALLATION

- A. Align in position at centerline of stall a distance of 2'-6" back from front edge of paving, curb or walk. If replacing an existing wheel stop, align with existing. Secure to pavement with three 18" long # 6 diameter steel rods driven into pavement. Paint wheel stops white unless otherwise indicated.

### 3.13 QUALITY CONTROL

- A. Assist and cooperate with Owner's Representative or Owner's inspection service in sampling to test for dilution rate of solids in seal coat applications.

### 3.14 CLEAN UP

- A. Remove and dispose of all debris and excess materials associated with this work. Clean any asphalt or paint spill off of materials not intended for paving or painting.

END OF SECTION 321216