



City of Charleston
Stone Road Pile and Lagging Wall
Project #: E109/21-141U

REQUEST FOR BID AND SPECIFICATIONS

Any questions pertaining to the specifications shall be directed to:

Jamie M. Bowles
City of Charleston, Purchasing Director
501 Virginia St. E., Charleston, WV 25301
304-348-8014
Jamie.bowles@cityofcharleston.org

Please be sure the following documents are included in this bid package:

1. Purchasing Affidavit
2. Purchasing Affidavit for Local Vendor Preference (If applicable)
3. Signed Protest Page
4. Addendum Acknowledgement Form if an addendum was issued.
5. List of Stockholders
6. Bid Surety Bond
7. Signed Drug Free Workplace Affidavit

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City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
BID AND PROPOSAL FORM

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE: _____ **CONTRACTOR'S LICENSE NO.:** _____

EMAIL ADDRESS: _____

Please enter our bid for the above-named project as follows:

Description	Unit	Quantity	Unit Cost	Item Total
Item 3.01 – Mobilization (≤5%)	LS	1		
Item 3.02 – Pre-drilled Soldier Piles HP12x53	LF	675		
Item 3.03 – 8x24x57 inch Lagging	EA	60		
Item 3.04 – Guardrail	LF	75		
			PROJECT TOTAL:	

All items required for project completion but not listed separately shall be considered incidental to the items shown. Quantities are estimates for bidding purposes only; the City of Charleston will pay only for actual quantities installed. The City of Charleston reserves the right to vary quantities up to 50% with no increase in unit price, except for optional items that may or may not be performed as part of this project.

- ☐ By checking this box and signing below, I hereby certify and attest I have read the B&O Tax statement found on page GC-3, section 2.18 and understand that B&O Tax may apply to the sale of my product or service to the City of Charleston.

We certify that we practice equal employment opportunities and have included all enclosures listed below.

NAME OF AUTHORIZED BIDDER: _____

TITLE: _____

SIGNATURE: _____ **DATE:** _____

Enclosures: Bid Bond, List of Stockholders, Signed Protest Page, Purchasing Affidavit & Drug-Free Workplace Affidavit.

City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
PROTEST

In the event that any vendor desires to protest City's selection, such vendor (hereinafter "Protestor") shall submit its protest in writing, which must be received by City within two (2) business days of receipt of the Notice of Award letter. Provided that the City Manager reserves the right to extend the time for submission of the protest if he determines it is reasonable under the circumstances.

The written protest must be submitted to the City Manager's Office, Attention: Jonathan Storage 501 Virginia Street East, Room 101; Charleston, WV 25301.

Only vendors who have submitted a timely and responsive proposal may protest City's selection. No protest may be filed if the RFP is withdrawn or if all proposals received in response to the RFP are rejected.

Protests shall include the following information:

1. The RFP title and project description;
2. The Protestor's name, address, telephone number, and fax number;
3. A detailed statement of the legal and/ or factual grounds for the protest;
4. A statement as to how the objectionable matter(s) resulted in prejudice to the Protestor;
5. Copies of all relevant documents;
6. A request for a ruling by City;
7. A statement as to the form of relief requested;
8. All information establishing that Protestor is an interested party with authority for the purpose of filing a protest.

At the time of submitting the written protest, Protestor shall submit a certified check in the amount of one thousand dollars (\$1,000.00) or bond equal to five percent (5%) of the price of the selected proposal, whichever is greater. In the event the proposal being protested is for contracted services, an estimated average of the contract value will be determined in order to calculate the five percent (5%) bond value. This bonding requirement is designed to protect against frivolous claims and unnecessary expenditures of public funds and to allow City to offset any and all costs, fees, expenses or damages of any kind whatsoever incurred by City as the result of an unsuccessful protest.

In the event the protest is unsuccessful, the certified check or bond will be used by City to recoup any and all costs, fees, expenses, or damages of any kind whatsoever incurred by City and related in any way to the unsuccessful protest. Costs, fees, expenses, and damages shall include, but shall not be limited to, increased costs of labor, materials or services resulting from any delay, professional fees, including, but not limited to, attorney fees, and all costs, fees or expenses of any kind whatsoever related in any way to the unsuccessful protest. By signing this document, Protestor waives the right to receive any money retained by City as set forth herein. If there are any funds remaining after City has recouped amounts as permitted herein, the remaining funds will be returned to Protestor. In the event Protestor is successful, the full amount of the certified check or bond will be returned to Protestor.

Upon receipt of a timely written protest, City shall provide notice of the protest to vendor selected as the successful bidder (hereinafter "Selected Vendor") and provide Selected Vendor with a copy of the written protest and any documents related thereto. **Selected Vendor will have two (2) business days to file a written response to the protest.** A hearing will be held within five (5) business days of the **date of receipt of the written protest by Selected Vendor**; provided that, City may, in its sole discretion, set the date of the hearing beyond the five (5) day time period specified herein if deemed necessary or convenient to do so by City. At the hearing, both Protestor and Selected Vendor will have an opportunity to appear and

present evidence and testimony in support of their positions. The hearing will be held before the City Manager or his designee. The department head of the department seeking the RFP and the City Attorney shall be in attendance.

A decision will be made by City within five (5) business days of the hearing. Upon a decision having been made, both Protestor and Selected Vendor will be notified in writing of City's decision.

In the event City's selection is reversed, City will reevaluate all proposals which were originally and timely submitted, in accordance with state and city laws and regulations. During the reevaluation, issues addressed during the protest proceedings may be considered.

Once a written protest is filed, no work will be performed by Selected Vendor until such time as City has rendered a final decision on the protest; provided that, if City, in its sole discretion, determines time is of the essence regarding receipt of the goods or completion of the services to be performed, City may permit Selected Vendor to proceed pursuant to its proposal and any Agreement with City, until/unless the protest is successful.

By submitting a proposal, each vendor agrees that the procedure outlined herein is the exclusive remedy available to challenge/protest the award of a contract to a successful bidder. Each vendor further agrees that, in the event any qualified vendor fails to submit a written protest and certified check or bond within the time period specified, that vendor thereby forever waives its right to any further claim, action, or remedy, including, but not limited to, the right to bring an action before any administrative agency or any court of competent jurisdiction.

Vendor Signature

Date

City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
CITY OF CHARLESTON PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE OR POLITICAL SUBDIVISION:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars (\$1,000) in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code**. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contracts may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the **West Virginia Code** and who has not submitted that plan to the appropriate contracting authority in a timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the **West Virginia Code** may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted, the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for a price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, the West Virginia Insurance Commission or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

Under penalty of law for false swearing (**West Virginia Code §61-5-3**), it is hereby certified that the vendor affirms and acknowledges the information in this affidavit and is in compliance with the requirements as stated.

Vendor's Name: _____

Authorized Signature: _____ Date: _____

City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
DRUG-FREE WORKPLACE CONFORMANCE AFFIDAVIT

STATE OF WEST VIRGINIA,

COUNTY OF _____, TO-WIT:

I, _____, after being first duly sworn, depose and state as follows:

1. I am an employee of _____; and,
(Company Name)
2. I do hereby attest that _____ maintains a valid written drug
free
(Company Name)

workplace policy and that such policy is in compliance with **West Virginia Code** §21-1D-5.

The above statements are sworn to under the penalty of perjury.

(Company Name)

By: _____

Title: _____

Date: _____

Taken, subscribed and sworn to before me this _____ day of _____ 20_____.

My Commission expires on _____.

(seal)

(Notary Public)

NOTE: This affidavit must be submitted with the bid in order to comply with WV Code provisions. Failure to include the affidavit with the bid may result in disqualification of the bid.



CITY OF CHARLESTON, WEST VIRGINIA

LOCAL VENDOR AFFIDAVIT

Pursuant to § 2-480 of the Charleston City Code, a Local Vendor may qualify for a competitive advantage applied to its bid when certain conditions are met. One condition requires the vendor to submit this affidavit confirming that (1) the vendor has paid all applicable business taxes to the City or has a non-delinquent payment plan with the City, and (2) the vendor must state that it has had an active and current business & occupation tax account with the City Collector during the entire one-year period prior to the bid opening.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under the penalty of law for false swearing (W. Va. Code § 61-5-3) that (1) the vendor has paid all applicable business taxes to the City or has a non-delinquent payment plan with the City, and (2) the vendor has had an active and current business & occupation tax account with the City Collector during the entire one-year period prior to the scheduled bid opening for the procurement listed below.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Corporate Name: _____

Authorized Signature: _____ Date: _____

(Printed Name and Title)

State of _____

County of _____, to wit:

Taken, subscribed, and sworn before me this _____ day of _____, 20 ____.

[SEAL]

Notary Public

My Commission expires _____, 20 ____.

Name of Procurement: _____ Bid Opening Date: _____

City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
PROJECT NARRATIVE

The intent of this project is to correct a roadway embankment slip located on Stone Road approximately 200 feet from the intersection with Overbrook Road. The correction will be made by means of drilled soldier pile retaining walls with concrete lagging installed in accordance with plans and specifications detailed in this document. The wall will tie to the existing wall and will extend along Stone Road approximately 75 feet in the direction of Overbrook Road.

The work shall consist of the Vendor furnishing all materials, equipment and labor necessary for the satisfactory completion of this project. All materials, equipment, and workmanship shall be in accordance with the West Virginia Department of Transportation, Division of Highways, Standard Specifications for Roads and Bridges, 2017, as amended.

The details contained in the following specifications are not designed to exclude any manufacturer from bidding but are offered as a means of describing the needs of the City of Charleston. Where brand names are used, the words "or equal" are assumed to follow. All specifications are minimum requirements unless otherwise stated. Any deviations from the stated specifications must be described in detail. The merit of such deviations will be considered with regard to the City of Charleston's intended use.

1.0 INFORMATION FOR BIDDERS

1.1 Receipt and Opening of Bids

The City of Charleston (City) invites bids on the attached forms. Sealed bids will be received by the City Manager until **Friday October 15, 2021 10:00 a.m.** The bid opening will be held immediately following in the City Manager's office.

1.2 Preparation of Bid

Each bid must be submitted in a sealed envelope with the following information marked on the outside: **name of bidder, address, project name, and bid opening date and time.** The bid must be submitted to the City Manager's Office located at 501 Virginia Street East, Room 101, Charleston, WV 25301. Vendors may hand deliver or mail their submissions to the aforementioned address. **Bid packages shall contain one (1) original and one (1) copy of the vendor's entire bid submission.** All documents in bid packet must be signed, dated and notarized where applicable or bid may be disqualified.

1.3 Bid Surety

Each bid must be accompanied by a bid surety in the form of a cashier's or certified check, or a bond written by a company licensed to do business in West Virginia, in the amount of five percent (5%) of the total bid for the project. The bid surety shall be made payable to the City of Charleston. The bid surety will be forfeited to the City if the Contractor fails or refuses to execute and deliver the contract and construction bond. All bidders will receive a full refund upon execution of the contract.

1.4 Method of Award

The City reserves the right to reject any or all bids and is not necessarily bound to accept the lowest bid if that bid is contrary to the best interest of the City. In making an award, intangible factors such as bidder's service, schedule, integrity, facilities, equipment, reputation and past performance will be weighed.

1.5 Pre-Bid Conference

A **mandatory** pre-bid conference for the purpose of discussing and clarifying the project drawings and specifications will be held in the City Engineering Office at 114 Dickinson Street at **10:00 am, Thursday October 7, 2021.**

1.6 Local Vendor Preference

A local vendor may qualify for a competitive advantage applied to its bid when certain conditions are met. Such as, the vendor has marked on its bid submission that it is requesting to be considered a local vendor for bid evaluation purposes; the vendor provides documentation evidencing that it has the right to conduct business in the State of West Virginia; and the vendor submits an affidavit confirming that it has paid all applicable business taxes to the city or has a non-delinquent payment plan with the city and has had an active and current business and occupation tax account with the city collector during the entire preceding one-year period.

Competitive advantages shall be applied in the following manner:

- (1) A competitive advantage of 4% shall be applied to the local vendor's bid when, prior to applying the competitive advantage, the apparent lowest responsible bidder submits a bid that is greater than \$25,000 but does not exceed \$125,000.
- (2) The competitive advantage of \$5,000 shall be applied to the local vendor's bid when, prior to applying the competitive advantage, the apparent lowest responsible bidder submits a bid that is greater than \$125,000.

1.7 Schedule

The following schedule will be used for this project:

Description	Date
Mandatory Pre-Bid	Thursday October 7, 2021, 10:00 a.m.
Addendum Questions due	Monday October 11, 2021, 4:00 p.m.
Addendum Answers issued	Tuesday October 12, 4:00 p.m.
Bid Opening	Friday October 15, 2021, 10:00 a.m.
Project Completion	Within two months of issued Notice to Proceed.

1.8 Licenses

Bidders must be licensed by the State of West Virginia and licensed to do business in the City of Charleston.

1.9 Addenda

All questions pertaining to the specifications shall be submitted in writing to Purchasing Director, Jamie Bowles via email to bids@cityofcharleston.org no later than **4:00 pm Monday October 11, 2021**. Questions submitted will then be compiled and answered in an addendum to be issued no later than **Tuesday October 12, 2021, 4:00 p.m.** The City of Charleston will not be held responsible for oral interpretations of the specifications given by any of its employees, representatives, or others. The issuance of a written addendum is the only official method whereby interpretation, clarification, or additional information pertaining to this RFP can be given. If any addenda are issued to this RFP, the Purchasing Director will attempt to notify all prospective bidders who have secured the original RFP document. However, it will be the responsibility of each vendor, prior to submitting their proposal, to contact the Purchasing Director via phone at (304) 348-8014, by email to bids@cityofcharleston.org, or by checking the City of Charleston Website at <https://charlestonwv.gov/bids-purchasing/current-bids>, to determine if any addenda were issued and to make such addenda a part of their competitive proposal.

1.10 Stockholders

A list of all stockholders by name and address owning 5% or more of the bidder's current stock must be submitted with the bid. In the case of partnerships or sole proprietorships, those receiving a 5% or more share of the company's net profit must be listed.

1.11 Immigration Reform and Control Act (IRCA)

All bidders in connection with the performance of this project shall certify that they are in complete compliance with the above noted Act.

1.12 Equal Employment Opportunities

All bidders acknowledge and agree that, in the performance of any City contract, they will not discriminate against any employee or applicant for employment because of race, color, religion, age, sex, sexual orientation, gender identity, disability, or national origin.

1.13 Payment Terms

Payment terms are net 30 days from the first or fifteenth day of the month for invoices received by the first or fifteenth day of the month. A ten (10) percent retainage shall be withheld from each invoice pending successful completion of the project. The Contractor shall supply a certified payroll and a copy of receipts for materials purchased with each invoice submitted. Mail invoices to: City Engineer, City of Charleston, P.O.

Box 2749, Charleston, WV 25330. Hand deliver invoices to: 114 Dickinson St., Charleston, WV.

1.14 Business & Occupation Tax

The City of Charleston broadly imposes a Business & Occupation Privilege Tax for the act or privilege of engaging in business activities within the City of Charleston. Business & Occupation Tax is measured by the application of rates against gross receipts or gross income of the business. All business activities are classified, and the classifications are significant inasmuch as the tax liability varies based on the different rates established for the specific types of business activities.

Individuals or businesses who do not have a physical location or office located in the City of Charleston are also subject to Business & Occupation Tax if they: 1) lease tangible personal property to lessees in Charleston, or 2) perform construction or installation contracts in Charleston or 3) render services in Charleston. Additionally, anyone who sells and/or delivers goods or products in Charleston may also be subject to Business & Occupation Tax.

Business & Occupation Tax should be considered when preparing your bid. If you are uncertain as to your business activity or how your business should properly calculate the tax when preparing your bid, please contact us at botax@cityofcharleston.org.

NOTE: No contract or purchase of materials or equipment will be awarded to a company whose Business & Occupation Tax status is delinquent.

2.0 GENERAL CONDITIONS

- Bids shall be delivered F.O.B. to: The City Manager's Office located at 501 Virginia Street East, Room 101, Charleston, WV 25301.
- **Only one bid will be accepted from each vendor.**
- Any deviations from the bid specifications must be included on a separate sheet and attached to the bid form.
- Enclose with this bid proposal all manufacturer brochures, all warranty agreements on equipment proposed, a list of the company's stockholders, the city's Purchasing Affidavit and any other documents as required by the City and described in this document. Firms must acknowledge the City's protest process, attached herein, by submitting a signed copy with their bid proposal. **Firms may not be considered, at the City's discretion, if any of the listed enclosures are not included with the bid submission.**
- Per City Code, facsimile, telephonic or oral bids will not be accepted.
- Debarred vendors may not submit bids or be awarded contracts.
- The City of Charleston is exempt from state and local taxes.
- The City Council or the City Manager reserves the right to reject any and all bids.

2.1 Contract and Contract Documents

The Contract includes the invitation for bids, proposal, contract form, contract bond, specifications, special provisions, plans/details, notice to proceed, any change orders and other supplemental agreements that are required to complete the construction of the work in an acceptable manner.

Specifications shall include applicable sections of the West Virginia Department of Transportation Division of Highways Standard Specifications for Roads and Bridges, adopted 2017 (WVDOH Specifications) including the most recent supplemental specifications and the Standard Details Book, Volume 1, Drainage, Guardrail, Pavement, Fence, and Markers, Issue Date: May, 2016 (WVDOH Standard Details).

The quantities listed in the contract documents are estimates. The city will pay for quantities actually in place. The City reserves the right to vary the quantities up to 50 % with no change in unit price, except for optional items that may or may not be completed as part of this project.

2.2 Materials, Services, and Facilities

The Contractor shall provide and pay for all materials, labor, tools, equipment, and all other services and supplies to complete the project in the specified time except as noted in the Contract Documents.

2.3 Surveys, Permits, and Regulations

Survey information is provided for informational purposes only. The Contractor shall verify existing information and obtain additional information as necessary.

The Contractor shall establish horizontal and vertical control as necessary for proper layout of the work. The Contractor shall obtain a building permit from the City of Charleston Building Commission. There will be no fee for the City's building permit. All other permits will be the Contractor's responsibility.

2.4 Contractor's Obligations and Retainage

The Contractor agrees to indemnify, defend and hold the City harmless against any property damage or personal injury claim as a result of any activity resulting from this project. The Contractor shall carry general liability insurance in amounts equal to or in excess of \$1,000,000 per occurrence/claim and shall name the City as an additional insured on its liability policy.

The Contractor shall remove all debris and leave the site in a clean and orderly condition following the completion of the work.

The City will hold a 10% retainage pending final acceptance of the job.

The Contractor shall guarantee that their work is free from defects for one (1) year after acceptance of the project by the City.

2.5 Weather Conditions

In the event of temporary suspension of work due to inclement weather, or whenever the Engineer shall direct, the Contractor shall, and then cause his subcontractors to carefully protect their work and materials against damage or injury. If, in the opinion of the Engineer, any work or materials have been damaged or injured by reason of failure on the part of the Contractor or his Subcontractors to protect their work, such materials shall be removed and replaced at the expense of the Contractor.

2.6 Responsibility of Avoiding Structures

The Contractor shall assume full responsibility for the protection of all property in the vicinity of the project. The Contractor shall notify the Engineer if their work encroaches on structures in the area of the project. The Contractor shall replace or repair anything damaged as a result of his work at no additional cost to the City. The Contractor shall be responsible for notifying all utility companies prior to any construction and shall also be responsible for having any utility lines, valves, meters, manholes, etc. relocated or adjusted that may interfere with the completion of this project. The cost and scheduling of utility relocations shall be included in the base bid and shall be performed at no additional cost to the City.

2.7 Traffic Control

Currently, Stone Road is closed from the Overbrook entrance to the embankment slip. The portion of the road required to complete the project will remain closed until the project is complete.

2.8 Cleanup

It shall be the responsibility of the contractor to keep the construction area clean from trash and debris at all times. The final cleanup shall be reviewed by the City Engineer prior to final payment.

2.9 Superintendence by Contractor

The Contractor shall provide a superintendent or foreman who shall have full authority to act for the Contractor.

2.10 Changes in Work

No changes in the work will be allowed without prior approval of the City. Changes will be accounted for by unit bid prices, an agreed upon lump sum, or the actual cost of labor, materials, rental and/or other applicable costs. Change orders that increase the cost of the project will require approval of City Council which meets on the first and third Mondays of every month.

2.11 Time of Completion

The project shall be substantially complete within **two (2) months** after the **Notice to Proceed** is issued.

2.12 Payment & Performance Bonds

At the time of the execution of this contract, the successful bidder shall execute and deliver to the City Payment and Performance Bonds payable to the City of Charleston, both in the amount of **one hundred percent (100%)** of the contract price. As an alternate, the successful bidder may furnish cash bonds or U.S. Government Bonds in the amount of **one hundred percent (100%)** of the contract price for each of the Payment and Performance Bonds. Firms may also elect to provide the City with an irrevocable standby Letter of Credit in the amount of **two hundred percent (200%)** of the contract price, with the City as beneficiary, issued by a reputable lending institution with terms satisfactory to the City and its legal counsel in lieu of performance and payment bonds.

2.13 Worker's Compensation

The Contractor shall comply with all Workers' Compensation insurance laws as required by State and Federal laws.

3.0 DETAIL SPECIFICATIONS

3.01 Mobilization

3.01.01 Description: This work shall consist of the preparation for construction, movement of personnel, equipment, and materials to the project site. This item also shall include site preparation, clean-up and demobilization. The price bid for Item 3.01 - Mobilization shall not exceed 5% of the Project Total.

3.01.02 Materials & Methods: Equipment and material shall be transported and delivered to and from the site. The Contractor shall remove all debris and leave the site in a clean and orderly condition before, during and following the completion of the work. Site shall be in existing conditions or better after cleanup and demobilization.

3.01.03 Measurement & Payment: Mobilization will be measured and paid on a lump-sum basis. The City will hold a 10% retainage pending final acceptance of the job. No decrease or increases will be made on this item bid price regardless of the decrease or increase in the final total contract amount or for any other cause.

3.02 Predrilled Soldier Piles HP12X53

3.02.01 Description: This work includes but is not limited to installation of drilled piling for soldier pile retaining walls. Refer to SECTION 614 PILING WALLS of the WVDOT Specifications for detailed information.

3.02.02 Materials & Methods: All piles shall be placed in pre-drilled holes a minimum of 2 inches greater than the diagonal measurement of the pile, at the spacing intervals associated with each location and aligned according to WVDOT Supplemental Specifications. Piles shall be embedded into bedrock a minimum of 12 feet and grouted with 4000 PSI concrete. The piles shall be painted gray with BAR-RUST 231 (or equal), a multi-purpose epoxy mastic.

The top of the pile shall extend 2 feet above the road elevation to allow for the placement of guardrail.

The contractor shall haul the spoil material from the site, the contractor is responsible for finding a disposal area. Spoil material shall not be placed below the wall.

3.02.03 Measurement & Payment: Materials, drilling, pile installation, grouting and other items incidental to proper construction of the piling wall will be measured and paid on a unit-basis (LF) for Item 3.02 - Predrilled Soldier Piles HP12x53.

3.03 8x24x57 inch Lagging

3.03.01 Description: This work includes, but is not limited to construction and installation of concrete lagging used to contain the drainage layer for the drilled piling walls. Lagging for all walls is assumed to extend eight (8) feet below the roadway shoulder surface unless specified otherwise, a minimum of 1 panel shall be buried. Number 57 limestone shall be installed behind the concrete lagging by the Contractor and is to be considered incidental to the lagging.

3.03.02 Materials & Methods: Lagging should be pre-cast. All lagging shall overlap the flange of the piling a minimum of 3 inches. Concrete lagging shall be a minimum of 8-inches thick and have a minimum 28-day compressive strength of 4,000 psi. Lagging shall extend a minimum of eight (8) feet below the road or sidewalk surface. Lagging panels shall be 2-feet high.

Concrete for lagging shall contain aggregate with a maximum size of 1-1/2 inches. Grade 60 reinforcing steel shall be placed as follows:

Horizontal:	No. 5 bars at 12-inches on-center (12-inch minimum splices)
Vertical:	No. 3 bars at 18-inches on-center (9-inch minimum splices)

Lagging shall be placed such that elevation differences along the wall are met through uniform vertical graduations between bays. These vertical graduations are to be approved by the City.

Drainage material meeting the requirements of No. 57 limestone shall be placed and compacted between the new and existing walls to provide drainage and prevent settlement.

Compacted site soil shall be placed below the drainage layer with 6-inch PVC underdrain installed.

The contractor is responsible for providing and placing material behind the wall if necessary. Material placed within road limits shall be compacted suitable material and the contractor shall place 6 inches of compacted aggregate base and 8 inches of 4,000 psi concrete in the area. The area shall be saw-cut in straight lines approved by the City Engineer and concrete shall be placed 1 ½ inches below the adjacent asphalt.

3.03.03 Measurement & Payment: Materials, installation, drainage layer, PVC, and other items incidental to proper construction of the lagging will be measured and paid on a unit-basis (EA) for Item 3.03 - 8x24x57 inch Lagging.

3.04 Guardrail

3.04.01 Description: This work includes but is not limited to the installation of Type I Guardrail. Refer to SECTION 607 GUARDRAIL of the WVDOT Specifications for detailed information.

3.04.02 Materials & Methods: The guardrail shall be bolted to every fourth pile. Refer to SECTION 607 GUARDRAIL of the WVDOT Specifications for detailed information.

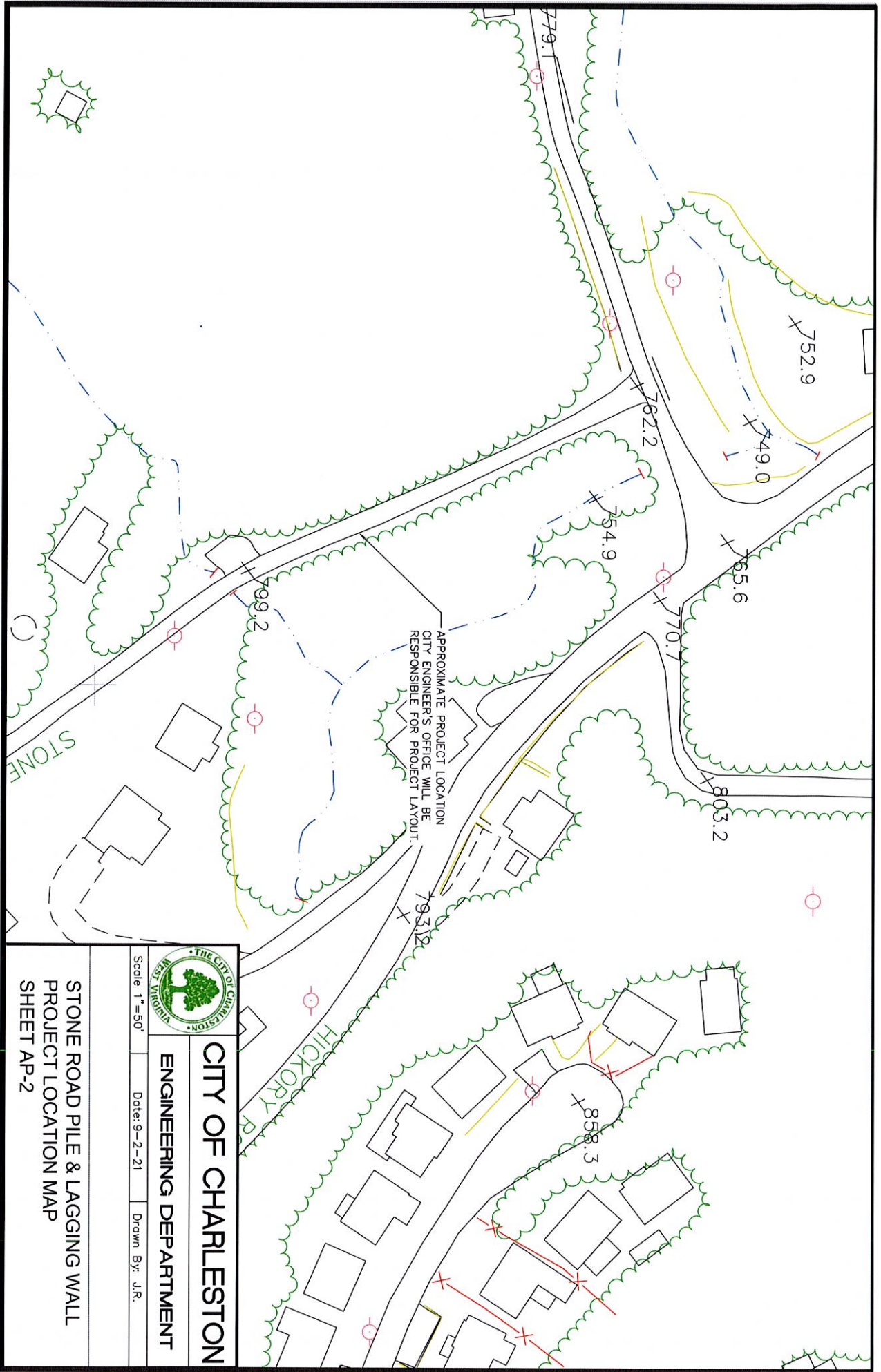
3.04.03 Measurement & Payment: Materials, installation and other items incidental to proper construction will be paid on a unit-basis of guardrail installed (LF) for item 3.04 Guardrail.

EXCEPTIONS AND DEVIATIONS

Bidder shall fully describe every variance, exception and/or deviation. Please include with your bid form. Additional sheets may be used if required.

City of Charleston, Stone Road Pile and Lagging Wall Project #: E109/21-141U
APPENDIX A

Overview Map & Photos

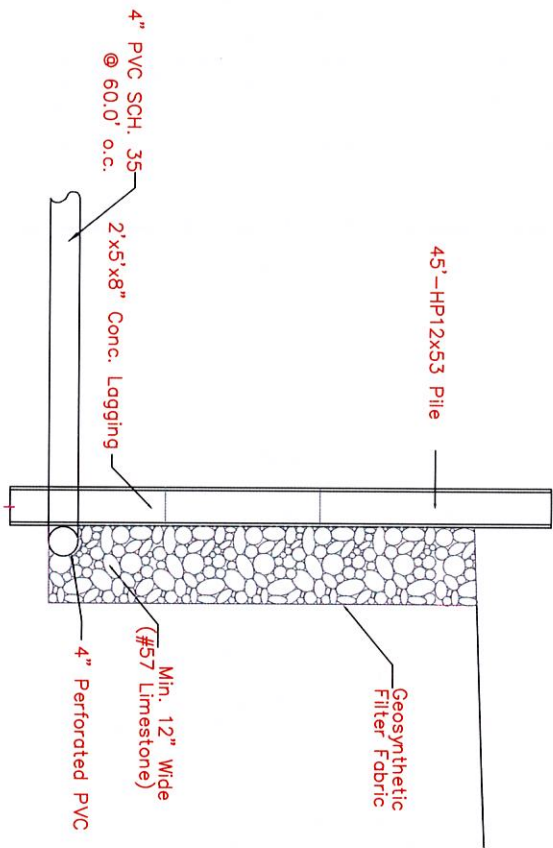


CITY OF CHARLESTON

ENGINEERING DEPARTMENT

Scale 1"=50' Date: 9-2-21 Drawn By: J.R.

**STONE ROAD PILE & LAGGING WALL
PROJECT LOCATION MAP
SHEET AP-2**



WALL DETAIL

N.T.S.

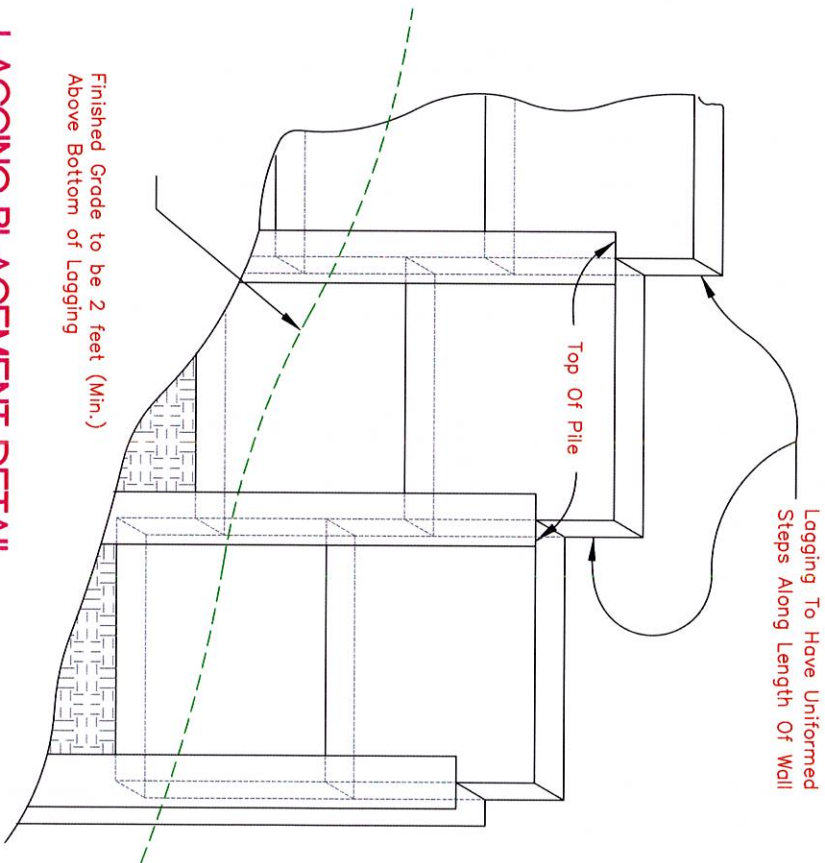
NOTES:

- 1) Piles to be pre-drilled and embedded into at least 12' into competent bedrock
- 2) Bedrock Depth 10-13' below grade

Finished Grade to be 2 feet (Min.) Above Bottom of Lagging

LAGGING PLACEMENT DETAIL

N.T.S.



CITY OF CHARLESTON

ENGINEERING DEPARTMENT

Scale 1"=50'

Date: 9-2-21

Drawn By: J.R.

STONE ROAD PILE & LAGGING WALL
WALL DETAIL SHEET
SHEET AP-3