



REQUEST FOR PROPOSALS

PIER 53 (WASHINGTON AVE. GREEN) AND PIER 68 REPAIRS

The Delaware River Waterfront Corporation (DRWC) is hereby seeking proposals from experienced firms to provide construction services for the Pier 53 and Pier 68 Repairs project.

Attached is information relating to submitting a response including specific requirements.

Any **questions** pertaining to this Request will be submitted in writing to Philip Borst, pborst@scungioborstintl.com and Rick Parisi, Rick.Parisi@childseng.com no later than **September 5, 2025 at 5:00 PM**. Answers will be posted on the DRWC website by September 12, 2025 at 5:00 PM.

Electronic **bids** must be received by **Friday September 19, 2025 at 4:00 PM**. The response should be sent as an email attachment or as an FTP/Dropbox link to Lizzie Woods at lwoods@drwc.org and Philip Borst at pborst@scungioborstintl.com.

PIER 53 AND PIER 68 REPAIRS

REQUEST FOR CONSTRUCTION PROPOSALS

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PIER 53 AND PIER 68 REPAIRS BID DOCUMENTS

Bid Advertisement

Project: Pier 53 (Washington Ave Green) and Pier 68 Repairs

DELAWARE RIVER WATERFRONT CORPORATION (DRWC) INVITES PROPOSALS FOR THE CONSTRUCTION OF THE PIER 53 (WASHINGTON AVE GREEN) and PIER 68 REPAIRS ALONG DELAWARE RIVER, IN PHILADELPHIA, PA. Bids are invited for the following Contract in connection with the repair of the piers in accordance with the Construction Documents prepared by the design team.

Questions regarding the project and/or this RFP should be submitted to Philip Borst, pborst@scungiorborstintl.com and Rick Parisi, Rick.Parisi@childseng.com by **September 5, 2025**. Answers will be posted on the DRWC website by September 12, 2025 at 5:00 PM.

Electronic **bids** must be received by **Friday September 19, 2025 at 4:00 PM**. The response should be sent as an email attachment or as an FTP/Dropbox link to Lizzie Woods at lwoods@drwc.org and Philip Borst at pborst@scungiorborstintl.com.

Owner:

Delaware River Waterfront Corporation

121 N. Columbus Blvd. Philadelphia, PA 19106

Attn: Lizzie Woods, Senior Vice President, Strategic Planning and Real Estate Development
Lavelle Young, Vice President of Operations

Owner's Representative:

Scungio Borst International

Project Manager

4 Manchester Road, Box 203, Media, PA 19065 Tel: 800-940-1937

Attn: Phil Borst and Scott Scungio

Consultant:

Civil Engineer, Structural Engineer

Childs Engineering

4207 Sylon Boulevard, Hainesport, NJ 08036 Tel : 609-261-2268

Attn: Rick Parisi, P.E., Vice President, Project Manager

PIER 53 AND PIER 68 REPAIRS BID DOCUMENTS

I. Definitions

1. **PURPOSE.** This request for proposal (RFP) sets forth the information and requirements for preparing and submitting to the Delaware River Waterfront Corporation (the "Corporation" or "DRWC") proposals for providing Construction Services to the Corporation. This RFP, with any bulletins, contains the only instructions governing the proposal and material to be included therein; a description of the service to be provided; requirements which must be satisfied to be eligible for consideration; general evaluation criteria; and other requirements to be met by each proposal.
2. **ISSUING OFFICE & PROJECT ADMINISTRATOR.** The sole point of contact for the Corporation regarding the RFP is:

Lizzie Woods, Senior Vice President,
Strategic Planning and Real Estate Development
Delaware River Waterfront Corporation
lwoods@drwc.org

Lavelle Young, Vice President of Operations
Delaware River Waterfront Corporation
lyoung@drwc.org
3. **PROJECT.** DRWC is a nonprofit corporation organized exclusively for the benefit of the City of Philadelphia and its citizens. DRWC acts as the steward of the Delaware River waterfront to provide a benefit to all the citizens and visitors of the city. The fundamental purpose of DRWC is to design, develop and manage the central Delaware River waterfront in Philadelphia between Oregon and Allegheny Avenues. DRWC intends to transform the central Delaware River waterfront into a vibrant destination location for recreational, cultural, and commercial activities for the residents and visitors of Philadelphia. As part of its mission, the Corporation has been authorized and empowered by the City of Philadelphia (the City) to repair and maintain Pier 53 (Washington Ave Green), and Pier 68, Philadelphia, PA (hereinafter, the "Project").
4. **TYPE OF CONTRACT.** DRWC will enter into one contract: "Construction Form Agreement". DRWC reserves the right to negotiate with bidders whose proposals, as to price and other factors, are considered qualified, responsible, and capable of performing the work required.
5. **SELECTION/REJECTION.** The Corporation may select or reject any and all proposals or may negotiate separately with competing proposers in accordance with this RFP.
6. **INCURRING COSTS.** The Corporation is not liable for any costs associated with the RFP incurred by proposers.
7. **AMENDMENTS.** Answers to Contractor's questions or modifications to the contents of the RFP are not official unless issued in writing by the Corporation. All revisions to the RFP will be made by written Bulletin. Such bulletins are the only binding revisions. Oral or informal communication are not considered binding.

PIER 53 AND PIER 68 REPAIRS BID DOCUMENTS

8. **RESPONSE DATE.** To be considered, proposals must be received at the issuing office on or before **September 19, 2025 no later than 4:00 pm**. Proposals must conform to the content and format requirements described in the RFP. Any other information thought to be relevant, but not applicable to the enumerated categories, should be provided. One (1) copy is to be submitted in electronic format via email. Proposal must be signed by an official authorized to bind the proposer. The proposal must remain valid for no less than thirty (30) calendar days. Late or incomplete proposals will not be accepted regardless of the reason.
9. **CONFIDENTIALITY.** Proposals will be held in confidence by the Corporation, except for the selected proposal. Proposals may be reviewed and evaluated by any person, other than competing proposers, at the discretion of the Corporation. Selection or rejection does not affect that right. All material submitted to the Corporation with the proposal becomes property of the Corporation and will be returned to the proposer only at the Corporation's discretion.
10. **NEWS RELEASES.** News releases and media contacts regarding this project will be made by the Corporation only, unless the Corporation directs otherwise in specific instances.
11. **INSURANCE.** Corporation will require Contractor, its agents, employees, and subcontractors to indemnify the Corporation, waive subrogation and provide insurance coverage types and limits in accordance with the requirements of the Form Construction Agreement. Without limiting the generality of the foregoing, Delaware River Waterfront Corporation, the Philadelphia Redevelopment Authority, the City of Philadelphia, and the Commonwealth of Pennsylvania are to be named as additional insureds on the General Liability Insurance Policy. Also, an endorsement is required stating that the coverage afforded to the above entities and their officers, employees, and agents as additional insureds will be primary to any other coverage available to them. Proposals shall be accompanied by an executed "Undertaking of Insurance" on a standard form provided by the bidder's insurance company stating such company's intention to provide insurance to the bidder in accordance with the insurance requirements of the Form Construction Agreement.
12. **SPECIFICATIONS.** Selected bidder must be able to comply with the Project Specifications attached hereto and incorporated herein as Attachment A ("Technical Specifications").
13. **OWNER'S REPRESENTATIVE.** Scungio Borst International, DRWC's Owner's Representative, will be the primary day-to-day point of contact between Owner, designer and contractor.

PIER 53 AND PIER 68 REPAIRS BID DOCUMENTS

II. Scope of Services

This project involves the repair of Pier 53 and Pier 68 along the Delaware River in Philadelphia, Pennsylvania. The proposed repairs for Pier 53 are located along the Raised Timber Walkway and include tightening all diagonal brace and pile cap connection hardware and replacing a broken diagonal brace. The proposed repairs for Pier 68 include undermining repair, trimming and removing vegetative growth along the fencing, and tightening the loose fence post anchor hardware.

- (a) Pier 53 was rehabilitated and converted into a park in 2014. The substructure is a timber low deck and consists of timber piles, timber caps, and timber deck. The Raised Timber Walkway is located along the south side of the park. It is constructed of 8" x 8" posts with bracing supporting two 3" x 8" cap beams. The walkway is comprised of three 2" x 12" stringers with timber decking. All hardware is galvanized. The posts are attached at low tide to the remaining low deck structure. This consists of timber piles and timber clamp beams. The posts are attached to a 9" x 10" beam resting on the remaining pile bents. See Drawing for schematic framing plan and numbering scheme.

Construction work to be performed under this contract shall be as follows:

1. Connection hardware: Throughout the structure, there are diagonal members that connect the posts to the deck that exhibit loose hardware. The post to post diagonal bracing exhibits loose connections. The pile caps exhibit loose connections. All structural connections from the diagonal bracing up to the boardwalk deck shall be tightened.
2. Diagonal bracing replacement: One replacement location of the diagonal bracing. This defect has split at the connection hardware and is no longer transferring load down to the pile cap.

- (b) Pier 68. This structure is currently used as a park. The pier is approximately 60 feet wide by 400 feet long consisting of timber piles supporting timber pile caps and a timber deck. Above the deck is a concrete seawall along the perimeter of the pier retaining fill. The pier is classified as a "low deck" type structure.

Construction work to be performed under this contract shall be as follows:

1. Install Grosoxx along the south face of the Aquatic cut and backfill beneath the concrete walkway.
2. Trim and remove the overgrown vegetation along the fence line along the entire perimeter of the pier.
3. Tighten the loose fence post hardware found at various locations.
4. Level/Grind concrete walkway.

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III. Reservation of Rights and Selection Criteria

Reservation of Rights

The DRWC reserves and in its sole discretion may, but shall not be required to, exercise the following rights and options with respect to the proposal submission, evaluation and selection process under this RFP:

- (a) To reject any proposals if, in the DRWC's sole discretion, the proposal is incomplete, the proposal is not responsive to the requirements of this RFP, the respondent does not meet the qualifications set forth in the RFP, or it is otherwise in the DRWC's best interest to do so;
- (b) To supplement, amend, substitute or otherwise modify this RFP at any time prior to selection of one or more respondents for negotiation and to cancel this RFP with or without issuing another RFP;
- (c) To accept or reject any or all of the items in any proposal and award the contract(s) in whole or in part if it is deemed in the DRWC's best interest to do so;
- (d) To reject the proposal of any respondent that, in the DRWC's sole judgment, has been delinquent or unfaithful in the performance of any contract with the DRWC or with others, is financially or technically incapable or is otherwise not a responsible respondent;
- (e) To reject as informal, non-responsive, or otherwise non-compliant with the requirements of this RFP any proposal which, in the DRWC's sole judgment, is incomplete, is not in conformity with applicable law, is conditioned in any way that is unacceptable to the DRWC, deviates from this RFP and its requirements, contains erasures, ambiguities, or alterations, or proposes or requires items of work not called for by this RFP;
- (f) To waive any informality, defect, non-responsiveness and/or deviation from this RFP and its requirements that is not, in the DRWC's sole judgment, material to the proposal;
- (g) To permit or reject at the DRWC's sole discretion, amendments (including information inadvertently omitted), modifications, alterations and/or corrections of proposals by some or all of the respondents following proposal submission;
- (h) To request that some or all of the respondents modify proposals based upon the DRWC's review and evaluation;
- (i) To request additional or clarifying information or more detailed information from any respondent at any time, before or after proposal submission, including information inadvertently omitted by the respondent;
- (j) To inspect and otherwise investigate projects performed by the respondent, whether or not referenced in the proposal, with or without the consent of or notice to the respondent;
- (k) To conduct such investigations with respect to the financial, technical, and other qualifications of each respondent as the DRWC, in its sole discretion, deems necessary or appropriate; and
- (l) To waive and/or amend any of the factors identified in the RFP as pertaining to the respondent's qualifications.

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Contract Negotiation and Award

DRWC reserves and in its sole discretion may, but shall not be required to, exercise the following rights and options with respect to the contract negotiation and award process resulting from this RFP.

DRWC reserves the right to enter into post-submission negotiations and discussions with any one or more respondents regarding price, scope of services, and/or any other term of their proposals, and such other contractual terms as the DRWC may require, at any time prior to execution of a final contract. DRWC may, at its sole election, enter into simultaneous, competitive negotiations with multiple respondents or negotiate with individual respondents seriatim. Negotiations with respondents may result in the enlargement or reduction of the scope of services, or changes in other terms that are material to the RFP and the submitted proposals. In such event, DRWC shall not be obligated to inform other respondents of the changes, or to permit them to revise their proposals in light thereof, unless DRWC, in its sole discretion, determines that doing so is in DRWC's best interest.

In the event negotiations with any respondent(s) are not satisfactory to DRWC, DRWC reserves the right to discontinue such negotiations at any time; to enter into or continue negotiations with other respondents; to enter into negotiations with firms that did not respond to this RFP and/or to solicit new proposals from firms that did not respond to this RFP, including but not limited to negotiations or proposals for components of the System, if any, that are deleted by the DRWC from the successful proposal or the contract resulting from it. DRWC reserves the right not to enter into any contract with any respondent, with or without re-issue of the RFP, if DRWC determines that such is in the DRWC's best interest.

Selection Criteria

Proposals that the DRWC determines, in its sole discretion, are responsive to the RFP will be reviewed by a selection committee designated by the DRWC. The DRWC, in its sole discretion, may require any respondent to make one or more presentations of its proposal to the selection committee, in DRWC offices, at no cost to the DRWC, addressing its ability to satisfy the requirements of this RFP. The DRWC shall not be required, however, to permit any respondent to make such a demonstration.

Cost to the DRWC is a material factor, but not the sole or necessarily the determining factor in proposal evaluation. The DRWC may, in its sole discretion, award a contract resulting from this RFP to a person or entity other than the responsible and qualified respondent submitting the lowest price. The contract will be awarded to the respondent whose proposal the DRWC determines, in its sole discretion, is the most advantageous to the DRWC and in the DRWC's best interest.

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The DRWC, in its sole discretion, may, but shall not be required to, reject without further consideration the proposal of any respondent that has not demonstrated, in the DRWC's sole judgment, that it satisfies the qualifications criteria provided in the RFP. The DRWC reserves the right, in its sole discretion and without notice to respondents, to modify this evaluation procedure as it may deem to be in the DRWC's interest.

IV. Confidentiality, Responsibility, and Disclosure rules

Confidentiality and Public Disclosure:

The successful applicant shall treat all information obtained from DRWC which is not generally available to the public as confidential and proprietary to DRWC. The successful applicant shall exercise all reasonable precautions to prevent any information derived from such sources from being disclosed to any other person. The successful applicant agrees to indemnify and hold harmless DRWC and their respective agents, officials and employees, from and against all liability, demands, claims, suits, losses, damages, causes of action, fines and judgments (including attorney's fees) resulting from any use or disclosure of such confidential and/or proprietary information by the successful applicant or any person acquiring such information, directly or indirectly, from the successful applicant or through this RFQ process.

By submission of a proposal, applicants acknowledge and agree that DRWC is subject to state and local disclosure laws and, as such, are legally obligated to disclose public documents, including proposals, to the extent required hereunder. Without limiting the foregoing sentence, DRWC's legal obligations shall not be limited or expanded in any way by an applicant's assertion of confidentiality and/or proprietary data.

Prior to DRWC's election to release any confidential and proprietary information for the purposes stated in this RFP, applicants shall enter into a Non-Disclosure Agreement with DRWC setting forth the obligations, rights, and remedies related to the disclosure of any confidential and proprietary information during the RFP process.

Prime Provider/Contractor Responsibility:

The selected applicant will be required to assume responsibility for all services described in their proposals whether or not they provide the services directly. DRWC will consider the selected applicant as the sole point of contact with regard to contractual matters.

Disclosure of Proposal Contents:

Subject to the public disclosure requirements stated above, cost and price information provided in proposals will be held in confidence and will not be revealed or discussed with competitors. All material submitted as part of the RFP process becomes the property of DRWC and will only be

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returned at DRWC's option. Proposals submitted to DRWC may be reviewed and evaluated by any person other than competing vendors. DRWC retains the right to use any/all ideas presented in any reply to this RFP. Selection or rejection of a proposal does not affect this right.

Non-Discrimination:

The successful vendor, as a condition of accepting and executing a contract with DRWC through this RFP, agree to comply with all relevant sections of the Civil Rights Act of 1964, the Pennsylvania Human Relations Act, Section 504 of the Federal Rehabilitation Act of 1973, and the Americans with Disabilities Act, hereby assuring that:

The provider agency does not and will not discriminate against any person because of race, color, religious creed, ancestry, national origin, age, sex, sexual orientation, handicap or disability in providing services, programs or employment or in its relationship with other provider contractors.

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V. Pier 53 and Pier 68 Repairs - Bid Proposal Form

PLEASE NOTE: IN ADDITION TO THIS FORM, A COMPLETE PROPOSAL MUST ALSO INCLUDE: A COMPLETED BID ITEM LIST, A DRAFT PARK CONSTRUCTION SEQUENCE NARRATIVE, A STATEMENT OF QUALIFICATIONS AND A STATEMENT OF PROPOSED SUBCONTRACTORS SOLICITATION FOR PARTICIPATION & COMMITMENT FORMS, CAMPAIGN CONTRIBUTION DISCLOSURES AND ACKNOWLEDGEMENTS OF ANY ADDENDA (IF APPLICABLE).

PROJECT TITLE: Pier 53 and Pier 68 Repairs

TO: DELAWARE RIVER WATERFRONT CORPORATION

ATTN: LIZZIE WOODS & LAVELLE YOUNG

VIA EMAIL AT: LWOODS@DRWC.ORG & LYOUNG@DRWC.ORG

PROPOSAL DUE DATE: September 19, 2025 at 4:00 PM

- A. I/We, the undersigned Bidder, hereby agree that the prices herein contained in this Bid Proposal will be used for evaluation purposes in procuring a Contractor.
- B. I/We, the undersigned Bidder, certify that I/we have received, read, and understand the preconstruction Scope of Work and shall perform all necessary preconstruction work required to assure rapid mobilization.
- C. I/We, the undersigned Bidder, certify that I/we have received, read, and understand the Construction Documents and have read and understand the description of this procurement process, all special conditions and any addenda, including the Minutes of the Pre-Bid meeting (if held), and have a good understanding of the project.
- D. I/We, the undersigned Bidder, certify that I/we have the required insurance and project bonding and can provide acceptable insurance certificates if I/we am the successful bidder.

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E. Our Bid for this project as stated here and in our Itemized Bid:

UNIT PRICE FORM					
Item	Description	Unit	Quantity	Unit Bid Price	Amount Bid
Pier 53 Repairs					
1	Pier 53 Mobilization	LS	1		
2	Hardware Repairs	LS	1		
3	Timber Repair	EA	1		
Pier 68 Repairs					
4	Pier 68 Mobilization	LS	1		
5	Vegetation Removal	LS	1		
6	Tighten Fence Anchor Bolts	LS	1		
7	Level/Grind Concrete Deck	EA	2		
8	Replace Missing Grosoxx and Geogrid	LF	125		
BID TOTAL =					

Total Bid Price in words: _____ dollars (\$_____).

IF BIDDER IS AN INDIVIDUAL OR PARTNERSHIP, FORM MUST BE DATED AND SIGNED HERE:
This _____ day of _____, 2025.

Signature of Owner or Partner

Business Name of Bidder

Print Name and Title

Business Address

Telephone Number

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IF BID IS BY A CORPORATION, THIS FORM MUST BE DATED AND SIGNED HERE BY A) THE PRESIDENT OR VICE PRESIDENT AND B) COUNTERSIGNED BY THE SECRETARY, ASSISTANT SECRETARY, TREASURER, OR ASSISTANT TREASURER AND THE CORPORATE SEAL SHALL BE AFFIXED. IF THIS FORM IS NOT SO SIGNED, A DULY CERTIFIED CORPORATE RESOLUTION AUTHORIZING FORM OR EXECUTION USED MUST BE ATTACHED TO THE BID EXECUTED BY THE DULY CERTIFIED INDIVIDUAL.

This _____ day of _____, 2025.

Corporate Seal

Corporate or Business Name of Bidder

Address, Including Zip Code

Telephone Number

Signature of President

Signature of Secretary

Print Name and Title

Print Name and Title

Federal Employer Identification Number: _____

APPENDIX A:

Project Specifications

SPECIAL PROVISIONS

AUTHORIZATION OF CONTRACT

The Contract is authorized by Delaware River Waterfront Corporation, hereinafter referred to as DRWC.

DESCRIPTION OF PROJECT

The Contractor is hereby notified that this bid submittal is for work on Pier 53 and Pier 68.

Pier 53 work is tightening all the diagonal bracing and pile cap hardware connections throughout the Raised Timber Walkway and replacing the broken diagonal bracing member.

Pier 68 work is for erosion control, trimming and removing vegetation overgrowth, tightening fence post hardware connections along the pier, and repairing the settled concrete walkway.

SPECIFICATIONS TO BE USED

The 2020 PennDOT Publication 408 Specifications (with all current amendments), as amended herein will govern the construction of this Project and the execution of the Contract.

Said Specifications are made a part of these Special Provisions by reference and will not be repeated herein. It is the responsibility of any Bidder and or Contractor to become familiar with these Specifications. Copies of the Standard Specifications are available from the Pennsylvania Department of Transportation.

Whenever any section, subsection, subpart or subheading is amended by such terms as changed to, deleted or added it is construed to mean that it amends that section, subsection, subpart or subheading of the 2020 Specifications unless otherwise noted. Whenever reference to page number is made, it is construed to refer to the 2020 Specifications unless otherwise noted.

Henceforth in this Supplementary Specification, whenever reference to the STATE, COMMISSIONER, DEPARTMENT, ENGINEER, INSPECTOR, RE, ME, or OWNER is made, it is construed to mean DRWC, Scungio Borst International, or Childs Engineering.

GENERAL

Payment to the Contractor will only be made for the Items listed in the proposal. No separate payment will be made for any incidental work. The items within the proposal shall include all work required to complete the project in a complete, acceptable, manner.

INQUIRIES REGARDING THE PROJECT

Submit inquiries regarding discrepancies, errors, or omissions, or concerns regarding the intent or meaning of the Contract to the Owner as follows:

1. **Before Award of Contract.** Submit inquiries by e-mail directly to the following contact:

Scungio Borst International
4 Manchester Road, Box 203
Media, PA 19065-0203
Phone: 215-292-5550
ATTN: Philip Borst, pborst@scungiorborstintl.com

Childs Engineering
4207 Sylon Blvd.
Hainesport, NJ 08036
Phone: 609-261-2268
ATTN: Rick Parisi, P.E., Rick.Parisi@childseng.com

Include the following with each inquiry:

1. Name of the Bidder.
2. Telephone number, fax number, e-mail address, and contact person.
3. Specifics of the inquiry, including anticipated results.

The deadline for submitting inquiries is 12:00 noon, 7 days before the opening of bids.

The engineer will investigate the information provided in the inquiry and, if the engineer determines that a change or response is necessary, the engineer will issue an addendum.

Requests for postponement of bids will not receive a response. The engineer will issue an addendum postponing bids if warranted.

2. **After Award of Contract.** Submit inquiries to the following contact:

Delaware River Waterfront Corporation
121 N Columbus Boulevard, Philadelphia, PA 19106

ATTN: Lizzie Woods, lwoods@drwc.org
Lavelle Young, lyoung@drwc.org

ITEM 1 – MOBILIZATION

[PIER 53]

As follows:

1.1 DESCRIPTION – This work is the assembly and set-up of the general plant required to comply with the contract and with local and State laws and regulations. General plant includes Contractor's office, shops, storage areas, and sanitary or other facilities. This work includes obtaining the required insurance and any other initial items required for the start of the work.

1.2 MATERIAL – Furnish adequate material and furnishings required. The material and furnishings will not be considered a part of the other completed contract items.

1.3 CONSTRUCTION – Construct the required facilities

1.4 MEASUREMENT AND PAYMENT – LUMP SUM

The owner will pay for mobilization according to the following schedule:

1. One half (50%) of the contract lump sum amount bid for mobilization will be released with the first estimate payable following the Notice to Proceed.
2. An additional 40% of the contract lump sum amount bid for mobilization will be released after 50% of the original total contract amount, including payments for delivered materials but excluding mobilization, is earned.
3. An additional 10% of the contract lump sum amount bid for mobilization will be released after the Project Engineer completes a final walk through.

ITEM 2 – HARDWARE REPAIRS

[PIER 53]

As follows:

2.1. DESCRIPTION – This work is to tighten all the connection hardware on the wood support system for the boardwalk.

2.2 CONSTRUCTION –

Tightening Connection Hardware. All hardware from the mean low water line and up shall be tightened with hand tools. This includes post to post bracing, post to deck bracing, and pile cap connections.

2.3 MEASUREMENT AND PAYMENT – Lump Sum

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

ITEM 3 – TIMBER REPAIR

[PIER 53]

IN ACCORDANCE WITH SECTIONS 1031.2 ---- AND AS FOLLOWS:

3.1 DESCRIPTION – This work is the replacement of a broken timber structural member.

3.2 MATERIAL –

- (a) Structural Timber.** The contractor will use Southern Pine to replace the broken member. Provide sawn lumber and timber conforming to the Specifications for Structural Timber, Lumber and Piling, AASHTO M 168. Certify as specified in Section 106.03(b)3. Accept only pieces consisting of sound wood, free from decay. Avoid boxed heart timber. Use structural timber complying with the American Softwood Lumber (ASL) Standard PS 20-70 for manufacture of dressed-sized lumber and timber product. Grade Southern Pine according to Southern Pine Inspection Bureau (SPIB) inspection rules. Adequately protect structural timber during transport.

Accept only kiln dried dimension lumber at 15% average moisture content, and 19% maximum moisture content.

Lumber and timber shall be treated with Chromated Copper Arsenate (CCA) with a retention of 2.5 PCF in accordance with AWWA Standard U1, to the requirements of Use Category 5B (UC5B)

Provide treated lumber and timber products with permanent symbol imprints or documentation to identify the treating company, treatment type, year of treatment, and certification of conformance with AWWA.

Accept treated structural timber that conforms to appropriate recommended AWWA treatment requirements.

- (b) Hardware.** Remove and reuse existing hardware. If new hardware is needed, proceed as follows: Furnish bolts, nuts, washers, timber connectors, and other metal fasteners as necessary. Provide bolts and nuts as specified in Section 1105.02(c)1. Provide machine head bolts and nuts of regular hex series and coarse thread series, Class 6g and 6H (Class 2) tolerances, all conforming to applicable ANSI Standards. Galvanize all hardware.

- (c) Galvanizing.** Section 1105.02(s). Galvanize hardware after fabrication.

3.3 Construction –

- (a) Storing and Handling.** Protect from exposure to the elements if stored for a prolonged period of time. Store material so that it can be readily inspected. Handle in a manner to avoid injury or breakage. Field-cut ends, notches and drilled holes are to be treated in accordance with AWWA Standard M4-23.

- (b) Workmanship.** Cut all lumber and timber accurately, and frame to a close fit, to provide for even bearing of joints over the entire contact surfaces. Make joints without shimming.

3.4 MEASUREMENT AND PAYMENT – Each

(a) Structural Timber. Each

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

ITEM 4 – MOBILIZATION [PIER 68]

As follows:

4.1 DESCRIPTION – This work is the assembly and set-up of the general plant required to comply with the contract and with local and State laws and regulations. General plant includes Contractor's office, shops, storage areas, and sanitary or other facilities. This work includes obtaining the required insurance and any other initial items required for the start of the work.

4.2 MATERIAL – Furnish adequate material and furnishings required. The material and furnishings will not be considered a part of the other completed contract items.

4.3 CONSTRUCTION – Construct the required facilities.

4.4 MEASUREMENT AND PAYMENT – LUMP SUM

The owner will pay for mobilization according to the following schedule:

- (c)** One half (50%) of the contract lump sum amount bid for mobilization will be released with the first estimate payable following the Notice to Proceed.
- (d)** An additional 40% of the contract lump sum amount bid for mobilization will be released after 50% of the original total contract amount, including payments for delivered materials but excluding mobilization, is earned.
- (e)** An additional 10% of the contract lump sum amount bid for mobilization will be released after the Project Engineer completes a final walk through.

ITEM 5 – TREE AND SHRUB TRIMMING AND REMOVAL [PIER 68]

As follows:

5.1 DESCRIPTION – This work is for the trimming and removal of selected trees and shrubs.

5.2 Construction –

(a) Tree and Shrub Trimming and Removal. Trees and shrubs to be trimmed and removed will be designated by their location along the exterior face of the fence line. For designated trees and shrubs, cut to the ground line or to a height of not more than 4 inches, as directed. Fell and remove in a manner preventing injury to remaining vegetation.

(b) Clean-up. Dispose of brush resulting from work.

5.3 MEASUREMENT AND PAYMENT – Lump Sum

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

ITEM 6 – CONNECTION HARDWARE [PIER 68]

As follows:

6.1. DESCRIPTION – This work is to tighten any loose fence post connection hardware.

6.2. CONSTRUCTION –

(a) Tightening Connection Hardware. All hardware shall be tightened using hand tools. See drawings for locations.

6.3 MEASUREMENT AND PAYMENT – Lump Sum

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

ITEM 7 – CONCRETE WALKWAY REPAIR [PIER 68]

As follows:

7.1 DESCRIPTION – This work is to repair the settled concrete walkway.

7.2 CONSTRUCTION –

- (a) **Repair Concrete.** Grind edges of concrete slabs smooth to slope downwards into adjacent slab. See drawings for location.

7.3 MEASUREMENT AND PAYMENT – Lump Sum

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

ITEM 8 – UNDERMINING REPAIR [PIER 68]

As follows:

8.1 DESCRIPTION – This work is for the installation of Grosoxx and flowable fill. See Filtrexx Manufacturer specifications and Pub408 - Section 220 as specified.

8.2 MATERIAL –

- (a) **Geogrid.** Shall be FLW 20.
- (b) **Grosoxx.** To be 8" diameter and filled with filtrexx certified special blend media to ensure non-buoyancy.
- (c) **Flowable Backfill, Type C.** Section 220 – Flowable Backfill.

8.3 Construction –

- (a) **Install Geogrid.** Shall follow Filtrexx FLW Geogrid specifications.
- (b) **Install Grosoxx.** Shall follow Filtrexx Grosoxx specifications.
- (c) **Install Flowable Fill.** Section 220 – Flowable Backfill.

8.4 MEASUREMENT AND PAYMENT – Lump Sum

This bid item and payment shall include all labor, equipment, and materials as required to satisfactorily complete this item of work.

PHOTOGRAPHS - PIER 53

PIER 53



**Photo 1: General view of Pier 53 walkway.
Note timber remnants of old structure adjacent to the pier.**



Photo 2: Typical loose hardware found throughout the structure.

PIER 53



Photo 3: Damaged cross bracing at Bent 5 to be replaced.

PHOTOGRAPHS – PIER 68

PIER 68



Photo 1: South face of Pier looking northeast.



Photo 2: Loose fence post anchor bolts.

PIER 68



Photo 3: Top of pier looking west.



Photo 4: Interior of pier looking at the missing Grosoxx and void below the concrete.

PIER 68



Photo 5: Uplifted concrete sidewalk on top of the pier.



Photo 6: Vegetation growth along the fence.

APPENDIX B:

Construction Drawings

PLANS FOR
PIER REHABILITATION
WASHINGTON AVENUE PIER 53
AND
PIER 68
ALONG DELAWARE RIVER
PHILADELPHIA, PENNSYLVANIA
AUGUST 2025




KEY MAP
SCALE: N.T.S

INDEX OF SHEETS	
SHEET:	DESCRIPTION
01	TITLE PAGE
02	GENERAL NOTES
03	WASHINGTON AVENYE PIER REPAIR DETAILS
04	PIER 68 REPAIR DETAILS




WILLIAM J. CASTLE, P.E.
PA LICENSE NO. 019589

08/18/25
DATE

DATE	NO.	REVISIONS		BY	
COVER SHEET					
REHABILITATION DESIGN WASHINGTON AVENUE PIER 53 AND PIER 68 ALONG DELAWARE RIVER PHILADELPHIA, PENNSYLVANIA					
<div><div>CHILDS ENGINEERING</div><div><i>(Formerly W.J. Castle, P.E. & Associates, P.C.)</i> 4207 SYLON BOULEVARD HAINESPORT, NJ 08036</div></div>					
SCALE	DRAWN BY	CHECKED BY	JOB NO.	DATE	DRAWING NO.
AS SHOWN	CD	RP	3181-25	08/18/25	1 OF 4

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH LATEST SPECIFICATIONS, PUBLICATION 408, AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.
2. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THEIR WORKERS AT ALL TIMES IN CONFORMANCE WITH ALL APPLICABLE OSHA REGULATIONS. THE CONTRACTOR MUST PERFORM WORK IN A MANNER TO PREVENT ACCIDENTS, INJURY, OR PROPERTY DAMAGE. ALL PRECAUTIONS FOR SAFETY ARE TO BE FOLLOWED.
3. THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS OF PUBLIC AUTHORITIES AND UTILITY COMPANIES HAVING JURISDICTION.
4. DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY DRWC OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND ACTUAL CONDITIONS, OR OTHER UNFORESEEN CONDITIONS DISCOVERED. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL CONSULTATION AND RESOLUTION WITH THE ENGINEER.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE STRUCTURAL INTEGRITY AND STABILITY OF THOSE PORTIONS OF THE EXISTING STRUCTURE WHICH MAY BE AFFECTED BY THEIR OPERATIONS. ANY DAMAGE TO THE EXISTING STRUCTURE WHICH IS THE RESULT OF THE CONTRACTOR'S OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.


1. CONTRACTOR TO USE MATERIALS AS NOTED IN THESE PLAN, ANY SUBSTITUTIONS FOR "OR EQUAL" MATERIALS WILL HAVE TO BE SUBMITTED FOR APPROVAL BEFORE INSTALLATION.
2. ALL TIMBER ELEMENTS SHALL BE SOUTHERN YELLOW PINE. TIMBERS SHALL BE PRESERVED WITH CHROMATED COPPER ARSENATE (CCA) WITH A RETENTION OF 2.5 PCF IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDS UC5B.
3. RE-USE THE EXISTING BOLTS FOR THE TIMBER BRACE REPLACEMENT AT BENT 5.

1. THERE ARE 12 FENCE ANCHOR BOLTS THAT ARE KNOWN TO BE LOOSE, HOWEVER THE CONTRACTOR IS TO ENSURE ALL FENCE ANCHORS BOLTS ARE TIGHTENED AS REQUIRED.
2. CONTRACTOR TO USE MATERIALS AS NOTED IN THESE PLAN, ANY SUBSTITUTIONS FOR "OR EQUAL" MATERIALS WILL HAVE TO BE SUBMITTED FOR APPROVAL BEFORE INSTALLATION.
3. GROSOXX AND GEOGRID MATERIALS TO MATCH EXISTING MATERIALS. ONE LAYER OF GROSOXX IS MISSING, TOTAL LENGTH IS APPROXIMATELY 125 L.F.
4. BACKFILL MATERIAL TO BE INSTALLED IN THE VOID BEHIND THE MISSING GROSOXX SHALL BE FLOWABLE BACKFILL, TYPE C. THIS SHALL BE COVERED UNDER THE BID ITEM FOR GROSOXX AND GEOGRID REPAIR.


ITEM NO.	DESCRIPTION	UNIT	CONTRACT QTY.
WASHINGTON AVENUE PIER 53			
1	WASHINGTON AVENUE PIER MOBILIZATION	LS	1
2	HARDWARE REPAIRS	LS	1
3	TIMBER REPAIR	EA	1
PIER 68			
4	PIER 68 MOBILIZATION	LS	1
5	VEGETATION REMOVAL	LS	1
6	TIGHTEN FENCE ANCHOR BOLTS	LS	1
7	LEVEL/GRIND CONCRETE DECK	EA	2
8	REPLACE MISSING GROSSEX AND GEOGRID	LF	125

FASCIA	DISTANCE FROM EAST END	QUANTITY
SOUTH	7'	3
SOUTH	31'	2
SOUTH	47'	1
SOUTH	147'	1
SOUTH	342'	1
NORTH	74'	1
NORTH	218'	1
NORTH	338'	1
NORTH	354'	1

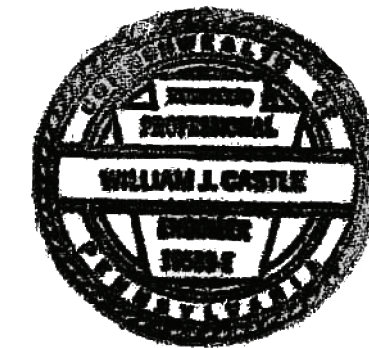
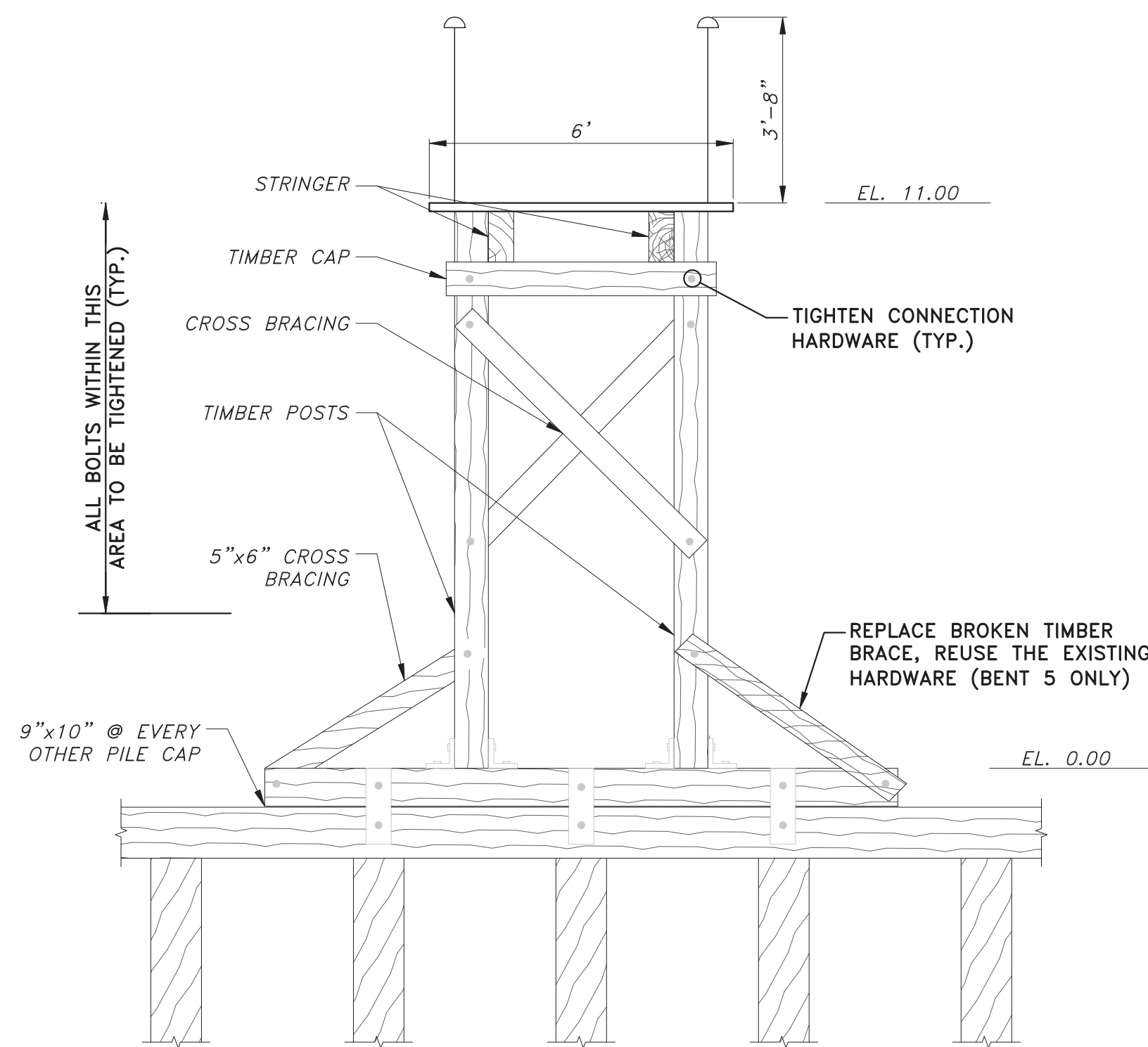
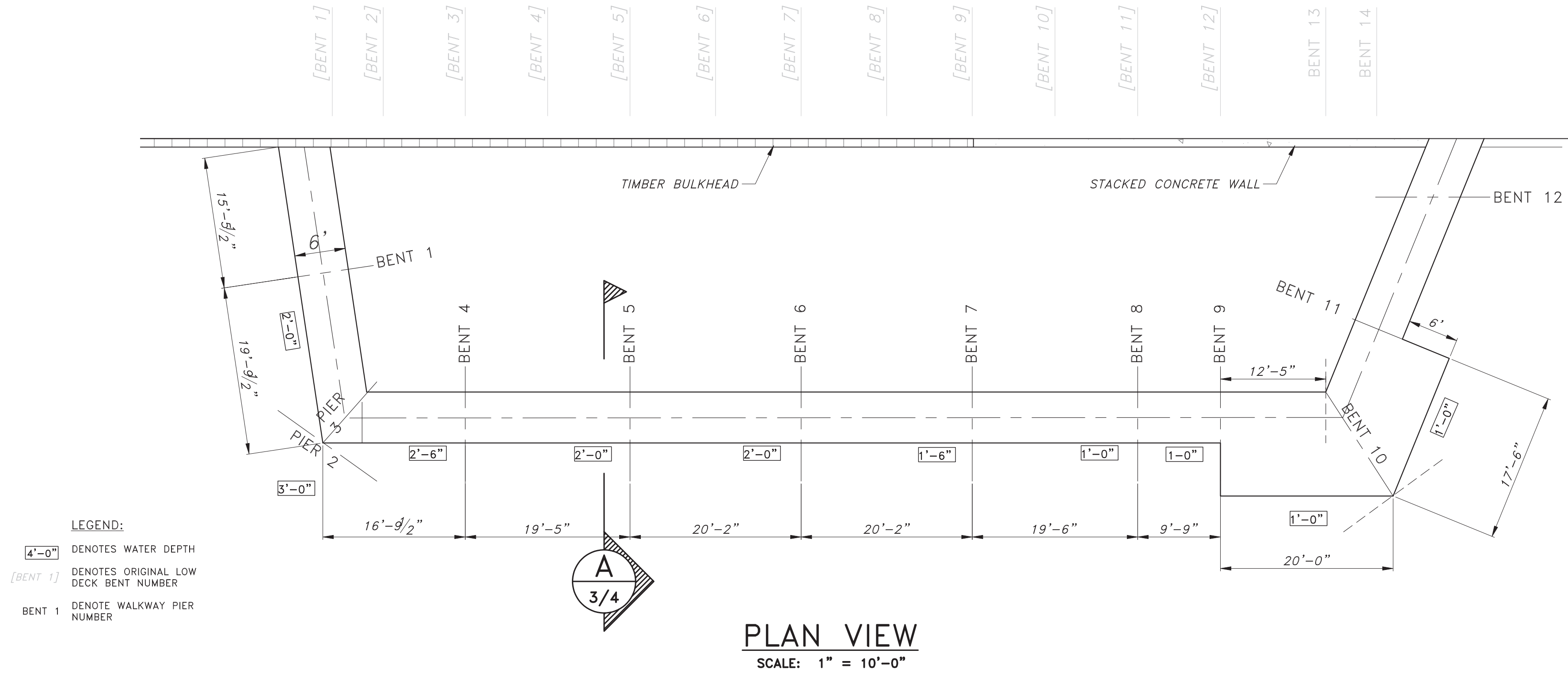
BL	—	BASELINE	SF	—	SQUARE FEET
CL	—	CENTERLINE	SY	—	SQUARE YARDS
CLR	—	CLEAR	STA.	—	STATION
CY	—	CUBIC YARDS	C—C	—	CENTER-TO-CENTER
EA	—	EACH	EXIST.	—	EXISTING
LF	—	LINEAR FEET	PROP.	—	PROPOSED
LS	—	LUMP SUM	TYP.	—	TYPICAL
LBS	—	POUNDS	REHAB.	—	REHABILITATION
NTE	—	NOT TO EXCEED			

DATE	NO.	REVISIONS		BY	
GENERAL NOTES					
REHABILITATION DESIGN WASHINGTON AVENUE PIER 53 AND PIER 68 ALONG DELAWARE RIVER PHILADELPHIA, PENNSYLVANIA					
<div><div><div><div>CHILDS</div><div>ENGINEERING</div></div></div><div><div>(Formerly W.J. Castle, P.E. & Associates, P.C.)</div><div>4207 SYLON BOULEVARD HAINESPORT, NJ 08036</div></div></div>					
SCALE	DRAWN BY	CHECKED BY	JOB NO.	DATE	DRAWING No.
AS SHOWN	CD	RP	3181-25	08/18/25	2 OF 4





08/18/25
DATE
WILLIAM J. CASTLE, P.E.
PA LICENSE NO. 019589

KA:3181-25.00 Pier 68 Repair and Maintenance- Single Bent/Cost/Current Working Draw/BD PLANS-PIER 68_PIER 53-COMBO.dwg 8/18/2025 3:12 PM




WILLIAM J. CASTLE, P.E.
PA LICENSE NO. 019589

08/18/25
DATE

DATE	NO.	REVISIONS	BY
WASHINGTON AVENUE PIER REPAIR DETAILS			
REHABILITATION DESIGN WASHINGTON AVENUE PIER 53 AND PIER 68 ALONG DELAWARE RIVER PHILADELPHIA, PENNSYLVANIA			
 (Formerly W.J. Castle, P.E. & Associates, P.C.) 4207 SYLON BOULEVARD HAINESPORT, NJ 08036			
SCALE AS SHOWN	DRAWN BY CD	CHECKED BY RP	JOB NO. 3181-25
DATE 08/18/25		DRAWING No. 3 OF 4	

