REQUEST FOR PROPOSALS

PORT DOCK IMPROVEMENTS FOR THE PORT AUTHORITY OF KANSAS CITY GOVERNOR MICHAEL L PARSON PORT TERMINAL

The Port Authority of Kansas City, Missouri, ("Port KC"), requests submittal of proposals from qualified and experienced General Contractors to enter into a construction contract ("Contract") per engineering plans, for a barge dock and barge winching system at the Governor Michael L Parson Port Terminal, located at 1723 Market St, Kansas City Mo 64105, as generally depicted in **EXHIBIT A**, attached hereto.

This RFP is an invitation by Port KC for proposers to submit an offer, which may be subject to subsequent discussions and negotiations. It is <u>not</u> a request for a competitive bid. By submitting a proposal, the proposer agrees that the proposer does not obtain any right in or expectation to a Contract with Port KC or a vested interest or a property right in a Contract with Port KC, regardless of the amount of time, effort and expense expended by the proposer. Each proposer shall be solely responsible and liable for any and all costs incurred by such proposer.

Businesses owned and controlled by socially and economically disadvantaged individuals will be afforded full opportunity to submit proposals in response to this RFP and will not be discriminated against on the grounds of race, color, religion, creed, sex, age, ancestry, or national origin in consideration for an award.

EXAMINATION OF ALL RFP DOCUMENTS AND REQUIREMENTS

Each proposer shall carefully examine all RFP documents and thoroughly familiarize themselves with all RFP requirements prior to submitting a proposal to ensure that proposer's proposal meets the intent and requirements of this RFP.

Before submitting a proposal to Port KC, each proposer shall be responsible for making all investigations and examinations that are necessary to ascertain any and all conditions and requirements that affect the requirements of this RFP. Failure to make such investigations and examinations shall not relieve the proposer from proposer's obligation to comply, in every detail, with all provisions and requirements of the RFP.

By submitting a proposal to Port KC, the proposer certifies that they have provided Port KC with written notice of all ambiguities, conflicts, mistakes, errors or discrepancies that proposer has discovered in the RFP.

TIMELINE

The following timeline shall be applicable unless modified by Port KC pursuant to addendum to this RFP:

- RFP issued: <u>March 11th, 2024.</u>
- Deadline for questions: <u>March 26th, 2024</u> 5:00 PM (CT)
- Due date for proposals: <u>April 1st, 2024</u> 12:00 PM (CT)
- Proposals provided to Selection Committee: <u>April 2nd, 2024.</u>
- Selection Committee shortlists proposals: <u>April 4th, 2024</u>
- Interviews of shortlisted proposers (if desired by Selection Committee): <u>April 5th, 2024</u>
- Contract negotiation/execution: _April 22nd, 2024.

<u>Site Visit.</u> Any proposer wishing to visit and inspect the Terminal must contact Richard Grenville, Vice President of Multimodal Logistics, at RGrenville@portkc.com or (816) 559-3726 to make appropriate arrangements. Any site visits must be completed prior to <u>March 14th, 2024</u>. Proposers are encouraged to plan accordingly and allow time for the scheduling of a mutually workable date and time. Port KC may elect to facilitate individual site visits or group site visits based on the level of interest and Port KC staff availability.

<u>Questions</u>. Port KC has retained the firms of TranSystems, Braun Intertec, and GHD Inc. as the Owners Engineer's for this project. The firms will serve as Owner's Representatives through the procurement and construction of the project. Any general questions, requests for clarification or notices of ambiguities, conflicts, mistakes, errors, or discrepancies in this RFP must be submitted in writing to Chad Banka, PE at **CCBanka@transystems.com** before <u>March 26th, 2024 at 5:00</u> <u>PM (CT)</u>. All questions, requests and notices will be routed from to the appropriate Port KC staff member(s) without further action by the inquirer. All questions and answers will be distributed anonymously to all potential proposers.

With the exception of the site visit, proposers shall not contact individual Port KC staff members for purposes of discussing this RFP. Failure to follow this procedure may result in a proposer's disqualification.

<u>Submittal</u>. Proposers shall submit one (1) electronic copy and four (4) hard copies of their proposal. Proposals will be accepted by Port KC at 110 Berkley Plaza, Kansas City, Missouri, 64120, until April 1st, 2024 at 12:00 PM (CT). Any proposals, modifications, or revisions received by Port KC after that date and time will not be considered. It is the proposer's responsibility to ensure timely receipt by Port KC at the location designated herein.

Notwithstanding anything herein to the contrary, Port KC reserves the right to change or extend any and all dates including the due date for proposals for any reason and at any time, including after the due date for proposals shall have expired.

SCOPE OF SERVICES

The selected proposer will obtain all required permits and perform all work necessary to complete the project in conformity with the Engineering Documents. The final and controlling Scope of Services will be included in the Contract, following negotiations with the selected proposer.

SUBMISSION REQUIREMENTS

Proposers must use the following outline to organize their proposals and to provide all of the required information. This will simplify the review process and permit the maximum degree of comparison by Port KC.

1. TITLE PAGE

Indicate the proposer's complete legal name (and the name under which the proposer is doing business if different than the legal name), the form of legal entity (corporation, limited liability company, general or limited partnership or sole proprietorship, etc., if not evident from the legal name), local address, telephone number and facsimile number, and contact person and title.

2. TABLE OF CONTENTS

The table of contents must clearly identify the material included in the submission by section and page number.

3. TRANSMITTAL LETTER

The proposer must include a signed letter of transmittal briefly stating:

- The proposer understands of the Scope of Services to be provided.
- Positive commitment to perform the Scope of Services.
- Why the proposer believes it to be qualified to perform the Scope of Services.
- The title of the person signing the letter, indicating his or her title, and stating that he or she is authorized to bind the proposer.

4. BUSINESS PROFILE

- State whether the proposer's experience is local, regional or national.
- State the location of the proposer's central office and the number of professional staff employed at that office.
- Provide a brief history of the proposer.

• Indicate any past or present relationship of the proposer to Port KC and the nature thereof.

5. QUALIFICATIONS

- Provide a list of professional references;
- Describe all violations/citations and pending litigation which involve the proposer rand/or its principals

6. CERTIFICATIONS

- Certify that the proposer has no conflict of interest with regard to services to be provided pursuant to the construction agreement contemplated by this RFP.
- Certify that the proposer has familiarized itself with the Mandatory Terms of the Contract contemplated by this RFP and will comply with the same.
- Certify that neither the proposer nor its principals are presently debarred or suspended by any Missouri department or agency from the award of any work funded in whole or in part with state funds.

7. AFFIDAVIT OF NON-COLLUSION

• Execute and attach the Affidavit of Non-Collusion, attached hereto as **EXHIBIT B**.

8. COMPENSATION STRUCTURE

• Provide a schedule of pricing per the Engineering Documents as follows:

SUMMARY OF QUANTITIES				
Item	Quantity	Unit		
Site				
Mobilization	1	LSUM		
Permitting	1	LSUM		
Site Grading	1	LSUM		
Construction Staking	1	LSUM		
Erosion Control	1	LSUM		
Site Safety Control	1	LSUM		
*Slope Stabilization	1,100	SY		
Concrete, 5000 PSI - 12" Tk., #5@12" Cnt. (Top & Bot.)	1,200	SY		
Aggregate Base	270	CY		
**Removal of Existing Structures	1	LSUM		
Sheet Pile Bulkhead				
Sheet Pile	50	PAIRS		
King Pile	52	EA		
Tie-Back Anchors	100	EA		
Whaler	340	LF		
***Granular Fill	20,200	CY		
Anchor Proof Testing	1	LSUM		
****Verification Test Pile (For Anchors)	2	EA		
Barge Test Borings	3	EA		
Compaction of Fill (above active waterline)	1	LSUM		
Compaction of Fill (below active waterline)	1	LSUM		
Winch				
Winch	2	EA		
H-Piles	8	EA		
Concrete Pile Cap	2	EA		
Mooring Dolphin	2	EA		
Electrical	1	LSUM		

JOB SPECIAL PROVISIONS

- **Mobilizations** shall include ALL costs for delivery of equipment and supplies needed at the jobsite for this project and removal after completion.
- **Permitting** see Appendix A Page S 102 General notes.
- Site Grading see Appendix A Page S102 note 7.
- **Construction Staking** see Appendix A Page G001 General notes.
- Erosion Control see Appendix A page G001 note 6.
- Site Safety Control see Appendix A page G001 note 6.
- Anchor Proof Testing see Appendix A page S201 "Testing".
- **Compaction of Fill** see Appendix A page S101 note 7.
- Electrical see Appendix A page S304 winch notes and specs.

SELECTION PROCESS

Proposals will be evaluated by a selection committee of not less than three (3) Port KC staff members selected by Port KC's President & CEO (the "Selection Committee").

Upon receipt of the proposals, the Selection Committee will review each proposal to determine

consistency with the requirements of this RFP, and may summarily reject any proposals that are deemed non-responsive by virtue of their non-compliance or non-conformity.

The Selection Committee will develop a shortlist of the best proposals. The Section Committee may determine that interviews with one or more proposers is necessary, but no proposer will be entitled to an interview except upon request of the Selection Committee. During any interviews, the proposer will present their proposal in keeping with the goals and criteria described in this RFP. The Selection Committee will then rank the shortlisted proposals.

Port KC will enter into negotiations with the top ranked proposer. In the event they are unable to agree upon terms, Port KC will proceed down the list by ranked order until such time as the terms of a Contract have been successfully negotiated or Port KC elects, in its sole discretion, to terminate the RFP.

Any evaluation criteria or weighting of criteria is used only as a tool to assist in selecting the best proposal. Evaluation scores or ranks do not create any right in or expectation to a Contract with Port KC regardless of any score or ranking given to any proposal. In other words, even if the Selection Committee gives a proposal the highest rank, the proposer still has no expectation of a Contract with Port KC and Port KC may choose to contract with any other proposer regardless of the score or rank of the other proposer.

Port KC will develop the criteria for scoring and ranking proposals and may change criteria and criteria weights at any time including after the due date for proposals.

RESERVATION OF RIGHTS IN SELECTION PROCESS

The Selection Committee, in reviewing and ranking proposals, and Port KC, in negotiating the terms of any Contract with the ranked proposers, may do any or all of the following:

- Interview none, one, some or all of the proposers who submit proposals;
- Discuss and negotiate anything and everything with any proposer or proposers at any time;
- Request additional information from any or all proposers;
- Request a proposer or proposers to submit a new proposal;
- Request one or more best and final proposals from any or all proposers;
- Accept and reject any proposal in whole or in part;
- Require a proposer or proposers to make modifications to their initial proposals;
- Reject all proposals.
- Pick and choose services the combination of services desired.
- Expand or decrease the scope of services.

Without limiting the foregoing, Port KC reserves the absolute and unconditional right to reject any or all proposals received in response to this RFP at any time prior to the execution of any Contract.

DISPOSITION OF PROPOSALS

Port KC reserves the right to reject any and all proposals, to accept portions of any proposal(s), and to negotiate the terms of any proposal(s) in determining whether to award any Contract.

WAIVER OR MODIFICATION OF RFP REQUIREMENTS

Port KC, in its sole discretion, may waive or modify everything or anything contained in this RFP at any time including after the proposal due date. If Port KC modifies the RFP after the due date for proposals, Port KC may, in its sole discretion, solicit new proposals in an amended RFP from anyone or everyone regardless whether a person submitted a proposal in response to the original RFP.

Port KC reserves the right to waive informalities or irregularities in proposals, to accept or reject any or all proposals, to cancel this RFP in part or in its entirety, and to re-solicit proposals if it is in the best interest of Port KC as determined by Port KC in its sole discretion.

SUBMITTAL OF PROPOSAL

Any incomplete proposal may be rejected by Port KC or the Selection Committee.

By submitting a proposal, proposer agrees that proposer's proposal shall constitute a firm irrevocable offer to Port KC that proposer shall not withdraw or modify without Port KC's approval for one hundred eighty (180) days after the proposal due date. Proposer agrees that even if Port KC negotiates or makes a counter offer to proposer on proposer's original proposal or any subsequent proposal submitted by proposer, proposer grants to Port KC, in Port KC's sole discretion, the unconditional right for Port KC to accept proposer's original proposal and Port KC's negotiation or counter offer shall not be deemed to be a counter offer.

OWNERSHIP OF PROPOSALS

By submitting its proposal, proposer hereby agrees that proposer's proposal and any supplementary material submitted by the proposer shall become property of Port KC.

CLOSED RECORDS

All proposals including interviews, presentations and documents, and meetings relating thereto may remain closed records or meetings under the Missouri Sunshine Law until an Agreement is executed or until all proposals are rejected by Port KC. If Port KC amends this RFP, proposals submitted in response to the original RFP may remain closed records until a Contract is executed or all proposals submitted in response to the amended RFP are rejected.

MANDATORY TERMS

The following shall be mandatory requirements of any Contract awarded pursuant to this RFP ("Mandatory Terms"). Any references herein, or in the applicable Exhibits, to "Contractor" shall be deemed to refer to the selected proposer under this RFP.

<u>Buy American</u>. Pursuant to the requirements of Section 34.353, RSMo, any manufactured goods or commodities used or supplied in performing the Scope of Work shall be manufactured or produced in the United States. This provision may be waived in the event only one line of a particular good or product required for the performance of the Scope of Work is manufactured or produced in the United States.

<u>MoDOT Requirements</u>. The funding for the project is a combination of Port KC and State of Missouri funds. Therefore, all standard MoDOT contract requirements will be included and enforced in any Contract.

<u>Environmental Permitting</u>. Any permits required by any applicable federal, state or local jurisdiction for the performance of the Scope of Work shall be secured by the Contractor and no work shall be permitted to commence or continue in the absence of such permits.

<u>Indemnification</u>. The Contractor shall indemnify, defend and hold harmless Port KC and any of its agencies, officials, officers, or employees from and against all claims, damages, liability, losses, costs, and expenses, including reasonable attorneys' fees, arising out of or resulting from any acts or omissions in connection with the Contract, caused in whole or in part by the Contractor, its employees, agents or subcontractors, or caused by others for whom the Contractor is liable.

Workforce Protections. See EXHIBIT C, attached hereto.

Prevailing Wages. See **<u>EXHIBIT D</u>**, attached hereto.

<u>M/WBE</u>. See <u>EXHIBIT E</u>, attached hereto.

Construction Workforce. See EXHIBIT F, attached hereto.

Insurance. See EXHIBIT G, attached hereto.

EXHIBIT A



LOCATION PLAN

SEE Page 29 for Plans and instructions

EXHIBIT B

AFFIDAVIT OF NON-COLLUSION

 State of Missouri
)

 County of
)

_____, being first duly sworn, deposes and says that:

1. They are the (owner, partner, officer, representative, or agent) of ______, the proposer that has submitted the attached proposal;

2. They are fully informed respecting the preparation and contents of the attached proposal and of all pertinent circumstances respecting such proposal;

3. Such proposal is genuine and is not a collusive or sham proposal; and that all statements made and fact set out in the proposal are true and correct;

4. Neither the said proposer nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest including this affidavit, has in any way colluded, considered, connived, or agreed, directly or indirectly with any other proposer, firm, or person, to submit a sham proposal in connection with the Contract for which the attached proposal has been submitted or to refrain from proposing in connection with such Contract; or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other proposer, firm, or person to fix the price or prices in the attached proposal or of any other proposer, or to fix the overhead, profit, or cost element of the proposed price of the other proposers, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against Port KC or any person interested in the proposed Contact.

5. The price or prices quoted in the attached proposal are fair and proper, and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit; and 6. They further certify that proposer is not financially interested in or financially affiliated with any other proposer on this project.

Signed:			
Title:			
Subscribed and sworn to before me this	day of	, 20	
Notary Public			
My Commission expires:			

EXHIBIT C

A. Bonds

1. Performance Bond.

Contractor shall obtain and deliver to Port KC a payment bond naming Port KC as obligee, which payment bond shall be in an amount not less than the total Contract amount.

2. Payment Bond.

Contractor shall obtain and deliver to Port KC a payment bond naming Port KC as obligee, which payment bond shall be in an amount not less than the total Contract amount.

B. Prompt Pay

Contractor shall pay to its subcontractors and material suppliers, within fifteen (15) days after each payment from Port KC (or such shorter time as their respective contract(s) might provide for), those sums due the same under the terms of their respective contract(s), except that any retention shall not exceed five percent (5%). In the event that a payment is not timely made by Contractor, in whole or in part, on the grounds that the work, or any portion thereof, was not deemed suitable for payment, Contractor shall provide the subcontractors and material suppliers with a written explanation for the withholding or deductions. If Contractor shall fail to make a payment in full within the time allotted herein, without reasonable cause, Contractor shall pay its subcontractors and material suppliers, in addition to any payment due them, interest in the amount of not less than one and one-half percent per month (or such greater interest as their respective contract(s) might provide for), calculated from the date payment was due.

C. OSHA 10-Hour

Contractor shall provide a ten-hour Occupational Safety and Health Administration (OSHA) construction safety program for their On-Site Employees which includes a course in construction safety and health approved by OSHA or a similar program approved by the State of Missouri's Department of Labor and Industrial Relations which is at least as stringent as an approved OSHA program, unless such On-Site Employees have previously completed the required program. All On-Site Employees who have not previously completed the program are required to complete the program within sixty (60) days of beginning work on the Project. Any On-Site Employee found on a work site subject to this paragraph without documentation of the successful completion of the required course shall be afforded twenty (20) days to produce such documentation and Contractor shall cause those failing to do so to be removed from the work site until such time as they shall be in compliance.

The failure to comply with the requirements of this paragraph C may subject Contractor to the payment of statutory penalties to Port KC. Contractor shall incur a statutory penalty of two thousand five hundred dollars (\$2,500) plus one hundred dollars (\$100) for each On-Site Employee employed by Contractor, for each calendar day, or portion thereof, such employee is employed without the required training within the time limits allotted herein. In the event that Port KC shall become entitled to statutory penalties, Port KC shall be entitled to collect the same in any manner authorized by the provisions of any agreement or contract, however denominated, to which the provisions of this Workforce Protections Policy shall be attached or incorporated by reference. Any statutory penalties shall be imposed and collected, if due, consistent with the procedures established by Section 292.675, RSMo.

Contractor shall contractually require its subcontractors of every tier to adhere to the requirements of this paragraph C in every regard.

For purposes of this paragraph C, the following definitions shall be applicable:

"Directly engaged in construction" shall mean work performed in the actual erection of the structure or completion of the Project. In addition, employees working at a nearby or adjacent facility used by Contractor or its subcontractors for construction of the Project shall be deemed on-site employees. Persons engaged solely in the transportation of materials, fuel, or equipment to the site of the Project shall not be deemed to be directly engaged in construction.

"On-site employee", laborers, workmen, drivers, equipment operators, and craftsmen employed by Contractor or its subcontractors to be directly engaged in construction at the site of the Project.

D. E-Verify

Contractor shall not employee any person on the Project who does not have the legal right or authorization under federal law to work in the United Stated, as defined in 8 U.S.C. 1324a(h)(3). Contractor shall execute an "Employee Eligibility Verification Affidavit" and shall attach thereto documentation sufficient to establish Contractor's

enrollment and participation in an electronic verification of work program operated by the United States Department of Homeland Security (E- Verify) or an equivalent federal work authorization program authorized by the United States Department of Homeland Security to verify information of newly hired employees, under the Immigration Reform and Control Act of 1986. For those Contractors enrolled in E-Verify, the first and last pages of the E- Verify Memorandum of Understanding that Contractor will obtain upon successfully enrolling in the program shall constitute sufficient documentation for purposes of complying with this paragraph D. Contractor shall submit the affidavit and attachments to Port KC prior to commencement of the Project, or at any point during the term of the Project if requested by Port KC.

Contractor shall contractually require its subcontractors of every tier to adhere to the requirements of this paragraph D in every regard.

EXHIBIT D

The "Prevailing Wage Requirements" shall collectively refer to the following:

- A. Sections 290.210 to 290.340, RSMo, the State of Missouri Prevailing Wage Law ("Law"); and
- B. 8 CSR 30-3.010 to 8 CSR 30-3.060, the Prevailing Wage Law Rules ("Rules"); and
- C. The Annual Wage Order ("Wage Order") issued by the State of Missouri's Department of Labor and Industrial Relations; and
- D. Any applicable Annual Incremental Wage Increase ("Wage Increase") to the Wage Order.

In accordance with the provisions of the Prevailing Wage Requirements, Contractor will pay or cause to be paid the applicable prevailing hourly rate of wages to all workers entitled to the same. If and to the extent the Prevailing Wage Requirements are applicable, Contractor will take whatever lawful steps are necessary to ensure that prevailing hourly rate of wages are paid by Contractor and all subcontractors thereunder, of every tier, according to the type of work being performed.

In order to monitor the payment of the prevailing hourly rate of wages, Contractor shall do the following with respect to any and all Prevailing Wage Applicable Work:

- i. Post and require all subcontractors to post and keep posted a clearly legible statement of all prevailing hourly rate of wages to be paid to the workers in a prominent and easily accessible place at the location of the Prevailing Wage Applicable Work; and
- ii. Complete and require all subcontractors to complete Port KC's "Daily Labor Force Report" for each calendar day that Prevailing Wage Applicable Work is being performed, and remit the same not less than weekly; and

- iii. Complete and require all subcontractors to complete Port KC's "Certified Payroll Report" for each calendar week that Prevailing Wage Applicable Work is being performed, and remit the same not more than two weeks after the close of the applicable payroll reporting period; and
- iv. Complete weekly interviews with randomly selected workers to identify any potential compliance issues; and
- v. Review every Daily Labor Force Report in conjunction with the applicable Certified Payroll Report and identify any errors, omissions, or entries inconsistent with the Prevailing Wage Requirements; and
- vi. Correct and require all subcontractors to correct any errors, omissions or entries inconsistent with the Prevailing Wage Requirements that are identified during such review of the same, and to remit to the affected workers any additional sums determined to be due as a result of such corrections; and
- vii. Remit to Port KC, once per month, the Certified Payroll Reports as corrected, if applicable. (The corresponding Daily Labor Force Reports shall <u>not</u> be submitted to Port KC but shall be retained as otherwise provided for herein, and are subject to review by Port KC and its authorized agents upon their request); and
- viii. File with Port KC, not more than thirty (30) days following the completion of the Prevailing Wage Applicable Work, the "Affidavit of Compliance With Prevailing Wage Requirements" for the purpose of certifying their compliance with the Prevailing Wage Requirements.

All records submitted with respect to the Prevailing Wage Requirements or otherwise herein required shall be retained by Contractor for not less than three (3) full year following the date upon which Contractor submits to Port KC the "final" Certified Payroll Reports for the Prevailing Wage Applicable Work, and shall be made available for review by Port KC and its authorized agents upon request. Port KC shall have the absolute right to audit Contractor's compliance with the provisions of this document and to examine, in whole or in part, any records which Contractor is required to obtain and retain, and to interview any workmen in connection therewith. Contractor shall grant Port KC or its authorized representative access to such records and workmen, if applicable, during business hours, and shall make such records and workmen available at the location of the Prevailing Wage Applicable Work or such other location in reasonable proximity thereto as Port KC may identify. Contractor shall require its contract management firm, if applicable, to comply with this Prevailing Wages Policy in every regard.

Contractor is solely responsible for ensuring that its subcontractors comply with the provision of the Prevailing Wage Requirements and shall be the sole point of contact for Port KC with respect such matters. Contractor shall not instruct its subcontractors to submit any documentation required by this Prevailing Wages Policy or the Prevailing Wage Requirements

directly to Port KC unless Port KC and Contractor shall have mutually agreed otherwise in writing. Any documentation not otherwise submitted through Contractor may be rejected by Port KC in its sole discretion, in which case Contractor shall resubmit such materials.

If any allegations or inquiries are made with respect to any potential violations of the Prevailing Wage Requirements, or if Contractor's review of the Daily Labor Force Reports and Certified Payroll Reports indicates a violation, Contractor must notify Port KC in writing within five (5) days of learning of such allegation, inquiry or violation. Contractor must follow up with the relevant contractor(s) and subcontractors thereunder until all allegations, inquiries or violations are satisfactorily resolved and disclose the resolution to Port KC, in writing, within five (5) days following the resolution of all such allegations, inquiries or violations.

If any violations of the Prevailing Wage Requirements are not resolved to the satisfaction of Port KC, Port KC may identify, by written notice to Contractor, the workers claiming to have been underpaid, the days they claim to have been underpaid, and the amounts they claim to have been underpaid. Contractor will have ten (10) days following receipt of such notice, or such longer time as Port KC may authorize in writing, to respond to the notice. Contractor will be given reasonable notice and an opportunity to be heard on the matter. Based on the information in the notice, Contractor's response, and such additional information as Port KC determines relevant, Port KC will render a written decision as to the amount, if any, of additional wages Port KC concludes is owed. Within ten (10) days following Contractor's receipt of such Port KC determines are owed, or (ii) notify Port KC in writing that it disputes Port KC's determination. In the event Contractor elects (ii) above, the matter shall be referred to the State of Missouri's Department of Labor and Industrial Relations for further enforcement action. Notwithstanding the foregoing, nothing herein shall be construed as precluding Contractor from any additional civil and criminal liability imposed by the Prevailing Wage Requirements.

The failure to comply with the Prevailing Wage Requirements may subject Contractor to the payment of statutory penalties to Port KC. Contractor shall incur a statutory penalty of one hundred dollars (\$100.00) for each worker employed, for each calendar day, or portion thereof, such worker is paid less than the prevailing hourly rate of wages for any work done on behalf of Contractor and all subcontractors thereunder. Any statutory penalties shall be imposed and collected, if due, consistent with the procedures established by Law.

EXHIBIT E

Projects shall be subject to the following M/WBE goals unless otherwise waived, in whole or in part, pursuant to this policy:

MBE - 14.7% WBE - 14.4%

A. Definitions.

<u>Commercially Useful Function</u>: Real and actual services that are a distinct and verifiable element of the contracted work based upon private sector trade or industry standards. Determination that an M/WBE performs a commercially useful function will be made based on the following considerations:

- a. An MBE or WBE performs a commercially useful function when it is responsible for execution of the ordinary and necessary work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. To perform a commercially useful function, the MBE or WBE must also be responsible, with respect to materials and supplies used on the contract, for negotiating price, determining the quality and quantity, ordering the material, installing (where applicable) and paying for the material itself. To determine whether an MBE or WBE is performing a commercially useful function, one must evaluate the following:
 - 1. The amount of work subcontracted; and
 - 2. Industry practices; and
 - 3. Whether the amount the enterprise is to be paid under the contract is commensurate with the work it is actually performing; and

- 4. Whether the MBE or WBE has the skill and expertise to perform work for which it is being utilized; and
- 5. The credit claimed for its performance of the work; and
- 6. Other relevant factors.
- b. An MBE or WBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of MBE or WBE participation. In determining whether an MBE or WBE is such an extra participant, one must examine similar transactions, particularly those in which MBEs or WBEs do not participate.
- c. An MBE or WBE firm is not performing a commercially useful function if the MBE or WBE subcontracts a greater portion of the work on a contract or purchases a greater amount of material than would be expected on the basis of normal industry practice for the type of work involved.
- d. Whether the MBE or WBE is participating in the contract as a middle person or broker in the normal course of that business or trade by purchasing the goods and/or services from another business, thereby qualifying expenditures for such goods and/or services to be counted toward utilization requirements for MBEs and WBEs.
- e. Whether the MBE or WBE is responsible for the purchase and quality of, and payment for, materials used to perform its work under the contract.

There shall be a rebuttable presumption that, when the MBE or WBE subcontracts a greater portion of the contract work than normal industry practice, the MBE or WBE is not performing a commercially useful function.

<u>Disadvantaged Business Enterprise (DBE)</u>: A business concern that meets the federal requirements for certification as a DBE.

<u>Good Faith Waiver:</u> A waiver that is granted by Port KC based upon a showing by a Contractor that despite undertaking in good faith the actions outlined in this Policy, the Contractor may be unable to achieve the M/WBE Goal.

<u>Minority</u>: A person who is a citizen or lawful permanent resident of the United States and who is:

a. African American, a person whose origins are in any of the Black

racial groups of Africa, and who has historically and consistently identified himself or herself as being such a person; or

- b. Hispanic American and/or Latino American, a person whose origins are in Mexico, Central or South America, or any of the Spanish speaking islands of the Caribbean, (for example Cuba and Puerto Rico) regardless of race, and who has historically and consistently identified himself or herself as being such a person; or
- c. Asian and/or Pacific Islander American, a person whose origins are in any of the original peoples of the Far East, Southeast Asia, the islands of the Pacific or the Northern Marianas, or the Indian Subcontinent, and who has historically and consistently identified himself or herself as being such a person; or
- d. Native American, a person having origins in any of the original peoples of North America, and who maintains tribal affiliation or demonstrates at least one-quarter descent from such groups, and who has historically and consistently identified himself or herself as being such a person.

Minority Business Enterprise (MBE): A for-profit small business concern that:

- a. Is at least 51 percent owned, managed, and independently controlled by one or more minorities; and
- b. Performs a commercially useful function; and
- c. Has been certified by the City of Kansas City, Missouri's Human Relations Department, another state or a political subdivision thereof, or by a reputable chamber or organization whose mission includes the promotion of minority owned business interests, as provided by this policy.

<u>M/WBE Goal</u>: A numerical objective stated as a percentage of contract dollars for participation by MBEs, WBEs or DBEs in providing professional services, construction and the equipping Project.

<u>Woman:</u> A person who is a citizen or lawful permanent resident of the United States and who is a female.

Women's business enterprise (WBE): A for-profit small business concern that:

a. Is at least 51 percent owned, managed, and independently controlled by one or more women; and

- b. Performs a commercially useful function; and
- c. Has been certified by the City of Kansas City, Missouri's Human Relations Department, another state or a political subdivision thereof, or by a reputable chamber or organization whose mission includes the promotion of minority owned business interests, as provided by this policy.

B.Selection of M/WBEs.

The selection of M/WBEs working on the Project shall be made by Contractor, but shall be drawn from the following sources only:

i. Those M/WBE entities listed in the Certified Directory maintained by the City of Kansas City, Missouri's Human Relations Department.

ii. Those M/WBE entities listed m the Certified M/WBE Vendors Directory maintained by the Missouri Office of Equal Opportunity.

iii. Those M/WBE entities certified as such by another state or a political subdivision thereof.

iv. Those M/WBEs (or their substantive equivalent) as so certified by any reputable chamber or organization whose mission includes the promotion of minority and women owned business interests.

In the event that M/WBE entities cannot be obtained in an amount sufficient to achieve the M/WBE goals, entities certified as DBEs may be credited towards the M/WBE goals if drawn from the following sources:

Those DBE entities listed in the Certified Directory maintained by the City of Kansas City, Missouri's Human Relations Department

Those DBE entities listed in the Missouri Regional Certification DBE Directory maintained by the Missouri Department of Transportation

Those DBE entities certified as such by another State or a political subdivision thereof.

Any DBE so utilized shall be classified for purposes of M/WBE credit as an MBE or WBE consistent with the status of the person or persons having managerial control of the DBE.

Port KC strongly encourages Contractors to utilize M/WBE firms certified as such by the City of Kansas City, Missouri's Human Relations Department (subparagraph i above) or the Missouri Office of Equal Opportunity (subparagraph ii above) before drawing from any other source. Those firms listed on such directories will be accepted by Port KC without further inquiry. Port KC reserves the right to require that Contractors reasonably establish the basis for its determination that any other entity selected from any other source should be regarded as an M/WBE for purposes of this policy.

C. Required Submission Prior to Contract Award.

Contractor will submit a proposed Contractor Utilization Plan/Request for Waiver prior to the execution of any contract. An automatic request for waiver shall be considered by Port KC if the proposed participation is less than the established M/WBE goals, and Contractor has made a Good Faith Effort to obtain M/WBE participation but was unable to achieve the M/WBE goals.

D. Required Monthly Submissions.

Contractor must electronically submit the following document to <u>compliance@portkc.com</u> by the last calendar day of each calendar month until such time as the construction of the Project has been fully completed.

M/WBE Monthly Utilization Report: This form identifies the M/WBEs utilized and the amounts paid to each throughout the construction of the Project.

E. M/WBE Participation Credit.

The following shall be credited towards achieving the M/WBE goals:

- 1. One hundred percent (100%) of the dollar amount paid to a general contractor or a subcontractor that is a qualified M/WBE, except as otherwise expressly provided for herein.
- 2. Sixty percent (60%) of the total dollar amount paid to obtain supplies or goods from a supplier who is a qualified M/WBE
- 3. Ten percent (10%) of the total dollar amount paid to obtain supplies or goods from a supply broker who is a qualified M/WBE.
- 4. One hundred percent (100%) of the total dollar amount paid to a manufacturer of construction supplies who is a qualified M/WBE.

NO CREDIT, however, will be given for the following:

1. The dollar amount paid to an M/WBE that does not perform a Commercially Useful Function; and

- 2. The dollar amount that a M/WBE subcontracts to any contractor not a qualified M/WBE; and
- 3. Materials and supplies used on the project unless the M/WBE is responsible for negotiating the price, determining quality and quantity, ordering the materials and installing (where applicable) and paying for material itself; and
- 4. Work performed by an M/WBE in a scope of work other than that in which the M/WBE is certified.
- F. Methods for Securing Participation of M/WBEs and Good Faith Efforts.

In the event Contractor does not meet M/WBE goals, the efforts taken by Contractor will be evaluated to determine whether Good Faith Efforts were made to secure participation. Good Faith Efforts are efforts that, given all relevant circumstances,Contractor actively and aggressively demonstrates in attempting to meet the M/WBE goals.

- G. **Evaluating Good Faith Efforts.** In evaluating good faith efforts, Port KC will consider whether Contractor has performed, or caused to be performed, the following, along with any other relevant factors:
 - 1. Advertisement. Advertised opportunities to participate in the contract in general circulation media, trade and professional association publications, small and minority business media, or publications of minority and women' s business organizations at least fifteen (15) calendar days prior to any bid or proposal due date. For purposes of this paragraph, advertisements posted in not less than three

(3) of the "News and Print Publications" listed on the attachment to this policy shall be deemed sufficient.

- 2. Notice. Provided notice to minority and women's business organizations of specific opportunities to participate in the project at least fifteen (15) calendar days prior to any bid or proposal due date.
- 3. Direct Contact.
 - a. Sent written notices, by certified mail, e-mail or facsimile, to not less than eighty percent (80%) of the M/WBE' s listed in the Certified Directory maintained by the City of Kansas City, Missouri' s Human Relations Department at least fifteen (15) calendar days prior to any bid or proposal due date.
 - b. Attempted to identify portions of the work for qualified M/WBE participation in order to increase the likelihood of meeting the

goals, including breaking down the scope(s) of work into economically feasible units where reasonably practical.

- 4. **Contact with Port KC.** Requested assistance in achieving the M/WBE goals from Port KC' s President/CEO and acted on the President /CEO' s recommendations, if any.
- 5. **Conference.** Conferred with qualified M/WBEs and explained the scope and requirements of the work for which their bids or proposals were solicited.
- 6. **Negotiations.** Attempted to negotiate in good faith with qualified M/WBEs to perform specific scopes of the Project, not rejecting them as unqualified without sound reasons based on a thorough investigation of their capabilities.

Written notices and advertisements to be provided pursuant to (1), (2) and (3) above shall include the following information:

- (a) The bid or proposal due date;
- (b) The name of the project;
- (c) The address or general location of the Project;
- (d) The location of plans and specifications for viewing;
- (e) Contact information for the Contractor;
- (f) A general description of the scopes of work that are the subject of the solicitation;
- (g) The date and time of any pre-bid meeting(s), if any, which have been scheduled; and
- (h) Any other information deemed relevant by the Contractor.
- H. Access to Documents and Records

Contractor agrees to permit the Port KC's duly authorized agents or employees access at all reasonable times to the applicable books and business records of Contractor as may be necessary for the limited purposes of ascertaining compliance with the requirements of this policy. Contractor shall require its subcontractors to likewise make its applicable books and records available to the same extent as is applicable to Contractor.

I. Remedies; Liquidated Damages

If Contractor fails to achieve the M/WBE goals as ultimately established in the Contractor Utilization Plan/Request for Waiver approved by Port KC, Port KC will sustain damages, the exact extent of which would be difficult or impossible to ascertain. Therefore, in order to liquidate those damages, the monetary difference between the amount of the M/WBE goals as ultimately established in the Contractor Utilization Plan/Request for Waiver and the amount actually paid to qualified MBEs and WBEs for performing a commercially useful function will be due from Contractor as liquidated damages.

Liquidated damages will not be imposed when, for reasons beyond the control of Contractor, the M/WBE goals as ultimately established in the Contractor Utilization Plan/Request for Waiver are note met and Contractor otherwise establishes its Good Faith Efforts.

EXHIBIT F

Projects shall be subject to the following goals, unless otherwise waived, in whole or in part, pursuant to this policy:

Minorities - 10% Women - 2%

The goals are expressed as a percentage of the total Construct ion Labor Hours performed by minorities and women in constructing a Project Although it is not a requirement that a Contractor meet or exceed the goals, a Contractor not doing so is required to objectively demonstrate to Port KC that good faith efforts have been made. This policy shall not be construed as requiring or encouraging that employment decisions be made, or that the terms and conditions of employment otherwise be altered, based upon race or gender.

A. The following terms shall be defined as follows for purposes of the Construction Workforce Program:

<u>Construction Labor Hour</u>: A sixty minute period of time devoted by a worker in constructing, reconstructing, improving, enlarging or altering any permanent building or structure for the Project.

<u>Good Faith Waiver:</u> A waiver that is granted by Port KC based upon a showing by Contractor that despite undertaking in good faith the actions outlined in this policy, Contractor was unable to achieve the goals.

<u>Minority:</u> A person who is a citizen or lawful permanent resident of the United States and who is:

- a. African American, a person whose origins are in any of the Black racial groups of Africa, and who has historically and consistently identified himself or herself as being such a person; or
- b. Hispanic American and/or Latino American, a person

whose origins are in Mexico, Central or South America, or any of the Spanish speaking islands of the Caribbean, (for example Cuba and Puerto Rico) regardless of race, and who has historically and consistently identified himself or herself as being such a person; or

- c. Asian and/or Pacific Islander American, a person whose origins are in any of the original peoples of the Far East, Southeast Asia, the islands of the Pacific or the Northern Marianas, or the Indian Subcontinent, and who has historically and consistently identified himself or herself as being such a person; or
- d. Native American, a person having origins in any of the original peoples of North America, and who maintains tribal affiliation or demonstrates at least one-quarter descent from such groups, and who has historically and consistently identified himself or herself as being such a person.

<u>Woman:</u> A person who is a citizen or lawful permanent resident of the United States and who is a female.

- II. Required Monthly Submissions.
 - A. Contractor must electronically submit the following document to <u>compliance@ portkc</u>

<u>.com</u> by the last calendar day of each calendar month until such time as the construction of the Project has been fully completed.

Project Workforce Monthly Utilization Report. Two copies of this report must be submitted to the Port KC each month. The first copy will be utilized to report Contractor's workforce compliance data with regard to the Project. The second copy will be utilized to report consolidated workforce compliance data for every subcontractor retained by Contractor on the Project.

- III. Methods for Securing Participation and Good Faith Efforts.
 - A. Contractor is required to make good faith efforts to achieve the goals. If Contractor will be unable to secure enough minority and female participation to meet or exceed the goals, Contractor must, within a reasonable time after so learning, request a waiver or modification of the goals by Port KC. Port KC will examine the request and the documentation of good faith effol1s and grant or deny a Good Faith Waiver, in whole or in part. Port KC will grant a waiver only if Contractor shows a good faith effort has been made to secure minority and female pailicipation in the construction of the Project.

- B. **Evaluating Good Faith Efforts.** In evaluating good faith efforts, Port KC will consider whether Contractor has performed, or caused to be performed, the following , along with any other relevant factors:
 - 1. For those Contractors with a general contractor that is not signatory to a collective bargaining agreement with organized labor:
 - a. Requested in writing the assistance of Port KC with respect to efforts to promote the utilization of minorities and women in the workforce and acted upon Port KC's recommendations; and
 - b. Advertised in minority or women trade association newsletters and/or minority or women owned media at least 15 calendar days prior to the utilization of any construction services and used te1minology that sufficiently describes the work available, the pay scale, the application process, and anything else that one might reasonably be expected to be informed of relevant to the position being advertised ; and
 - c. Maintained copies of each advertisement and a log identifying the publication and date of publication; and
 - d. Conducted real and substantial recruitment efforts, both oral and written, targeting resident, minority and women community-based organizations, schools with a significant minority student population, and training organizations serving the recruitment area; and
 - e. Established and maintained a current list of resident, minority and women recruitment sources, providing written notification to the recruitment sources of available employment opportunities, and maintained records of the notices submitted to the organizations and any responses thereto; and
 - f. Maintained a current file for the time period of the Project with the name, address, and telephone number of each resident, minority and woman job applicant, the source of the referral, whether or not the person was hired, and in the event that the applicant was not hired, the reason therefore; and
 - g. Promoted the retention of minorities and women in its workforce with the goals of achieving sufficient annual hours for minorities and women to qualify for applicable benefits; and
 - h. Required by written contract that Contractor's subcontractors comply with the above efforts.
 - 2. For those Contractors with a general contractor that is signatory to collective bargaining agreements with organized labor:
 - a. Requested in writing from each labor union representing crafts

to be employed in the construction of the Project that: (i) The labor union make efforts to promote the utilization of residents of the city, minorities and women in the workforce; and (ii) The labor union identifies any residents of the city, minorities and women in its membership eligible for employment; and

- b. Collaborated with labor unions in promoting mentoring programs for journeypersons intended to assist minorities and women in increasing retention with the goal of achieving sufficient annual hours to qualify for applicable benefits; and
- c. Maintained a current file with the name, address, and telephone number of each resident, minority and woman worker identified by the labor union, whether or not the person was hired, and in the event the person was not hired, the reason therefore; and
- d. Required by written contract that that Contractor's subcontractors comply with the above efforts.

To the extent that the good-faith effort requirements set forth in this section are in conflict with the procedures implemented pursuant to a competitive bargaining agreement, such other procedures, as may be approved by Port KC in writing, may be substituted in order to accomplish the purpose and intent of this section.

IV. Access to Documents and Records

- A. Contractor agrees to permit Port KC's duly authorized agents or employees access at all reasonable times to the applicable books and business records of Contractor as may be necessary for the limited purposes of ascertaining compliance with therequirements of this policy. Contractor shall require its subcontractors to likewise make its applicable books and records available to the same extent as is applicable to Contractor.
- V. Remedies; Liquidated Damages
 - A. Contractor shall be liable for compliance with the Construction Workforce Program.
 - B. If Contractor fails to achieve the goals and the same have not otherwise been waived or modified, Port KC will sustain damages, the exact extent of which would be difficult or impossible to asceltain. Therefore, in order to liquidate those damages, Port KC shall be entitled to collect the sum of three thousand dollars (\$3,000) for each calendar year during which construction on the Project shall have occurred.
 - C. Liquidated damages will not be imposed when, for reasons beyond the control of Contractor, the goals are not met and Contractor otherwise establishes Good Faith Efforts.

EXHIBIT G

Contractor shall procure and maintain the policies and coverage listed herein during the term of any Contract.

- I. Commercial General Liability Insurance: with limits of \$1,000,000 per occurrence and \$2,000,000 aggregate, written on an "occurrence" basis. The policy shall be written or endorsed to include the following provisions:
 - a. Severability of Interests Coverage applying to Additional Insured's;
 - b. Contractual Liability;
 - c. Per Project Aggregate Liability Limit or, where not available, the aggregate limit shall be \$2,000,000;
 - d. Per Location Endorsement;
 - e. No Contractual Liability Limitation Endorsement;
 - f. Additional Insured Endorsement, ISO form CG20, 10, current edition, or its equivalent;
 - g. Primary and non-contributory shall apply; and
 - h. Waiver of Subrogation.
- II. Commercial Automobile Liability Insurance with a limit of \$1,000,000 per occurrence, covering owned, hired, and non-owned automobiles. Coverage provided shall be on an "any auto" basis and written on an "occurrence" basis. Policy requires additional insured, primary and non-contributory and waiver of subrogation. This insurance shall be written on a Commercial Business Auto form, or acceptable equivalent, and shall protect against claims arising out of the operation of motor vehicles, as to acts done in connection with the Agreement.
- III. Worker's Compensation Insurance as required by statute, including Employer's Liability, with limits of:
 - a. Worker's Compensation: i. Statutory
 - b. Employer's Liability:

- i. \$500,000 bodily injury by accident each accident
- ii. \$500,000 bodily injury by disease policy limit
- iii. \$500,000 bodily injury by disease each employee
- IV. USL&H Coverage; and
- V. If applicable, Professional Liability Insurance with limits of not less than \$2,000,000 per claim and annual aggregate.
- VI. Umbrella or Excess Liability coverage with limits of \$10,000,000. Policy requires additional insured, primary and non-contributory and waiver of subrogation.
- VII. Pollution Liability coverage with limits of \$2,000.000.
- VIII. The Commercial General, Automobile, and Umbrella Liability Insurance specified above shall provide that Port KC and its agents, officials, officers, and employees, while acting within the scope of their authority, shall be named as additional insured's for the services performed under the Agreement. At or before execution of the Agreement, the selected Operator must deliver to Port KC a certificate of insurance showing all required coverage, endorsements, and additional insured's, and which will declare that the respective insurer may not cancel or fail to renew the same in whole or in part without giving to Port KC written notice of its intention to cancel or not renew at least thirty (30) days in advance. All insurance coverage must be written by companies that have an A.M. Best's rating of "A-VI" or better and are licensed or approved by the State of Missouri to do business in Missouri.

GOVERNOR MICHAEL L. PARSON PORT TERMINAL

KANSAS CITY, MISSOURI **BULKHEAD AND WINCH IMPROVEMENTS**

GENERAL NOTES:

CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE CODES AND STANDARDS AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF KANSAS CITY, MISSOURI, IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE STDS. SHALL BE COVERED BY DIVISION II OF THE KANSAS CITY METROPOLITAN CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) SPECIFICATIONS FOR CONSTRUCTION MATERIALS LATEST EDITION. UNLESS NOTED OTHERWISE

ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL CITY, MISSOURI, AS APPLICABLE. (WATER MAIN SERVICE CONNECTION

THE EXISTING AND PROPOSED UTILITY LOCATIONS SHOWN ON THESE PLANS ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN VERIFIED BY THE OWNER OR ITS' REPRESENTATIVE. UTILITY INFORMATION IS NOT MEANT THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION TO PROVIDE NON-INTERRUPTION OF SERVICE. TO ENSURE PROPER CLEARANCES AND TO AVOID DAMAGE THERETO. UTILITIES DAMAGED THROUGH THE NEGLIGENCE OF THE CONTRACTOR TO OBTAIN THE LOCATION OF THE UTILITY SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE.

ANY PERSON OR FIRM DOING EXCAVATION ON THIS PROJECT SHALL DO SO ONLY AFTER GIVING NOTICE TO AND OBTAINING INFORMATION FROM UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE THE NAMES AND TELEPHONE NUMBERS OF KNOWN UTILITY COMPANIES. EVEN IF ONLY REMOTELY INVOLVED WITH THIS PROJECT AF LISTED UNDER "UTILITY COMPANIES" ON THIS SHEET

THE CONTRACTOR SHALL UTILIZE THE FOLLOWING TOLL FREE NUMBER PROVIDED BY THE "MISSOURI ONE CAL SYSTEM. INC." 1-800-DIG-RITE (1-800-344-7483). STATE LAW REQUIRES EXCAVATION WORK

THE CONTRACTOR SHALL PROVIDE FOR CONTROL OF SURFACE EROSION AND SEDIMENT DEPOSITION DURING AL PROPERTY IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE. THE CONTRACTOR SHALL REMOVE AN DEBRIS AND SEDIMENT AND RESTORE THE RIGHT-OF-WAY AND ADJACEN CONDITION

SUBGRADE AND BACKFILL SHALL BE PREPAR BE PROPERLY COMPACTED.

THE SITE PLAN IS BASED ON A SURVEY BY TALIAFARO & BROWN INC., KANSAS CITY, MISSOURI, DATED NOVEMBE CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS PRIOR TO BEGINNING WORK. NEITHER THE OWNER NOR TH ENGINEER WILL BE RESPONSIBLE FOR THE COMPLETENESS OR ACCURACY OF THE DATA AND NO EXPRESSED OF IMPLIED GUARANTEE IS GIVEN OF THE INTERPRETATION THEREO

CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING CONSTRUCTION AREAS IN ORDER TO PERMI WORK. ANY WATER ACCUMULATION SHALL BE REMOVED BY PUMPING. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO THE

SURFACE AND SUB-SURFACE CONDITIONS TO BE ENCOUNTERED. CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION OF EXISTING FEATURES WITHIN THE PROJECT LIMITS

INCLUDING, BUT NOT LIMITED TO DRIVEWAYS, PAVEMENTS, ETC., UNLESS OTHERWISE INDICATED ON THE PLANS. COORDINATE ALL DEMOLITION ACTIVITIES WITH THE OWNER. 12. CONTRACTOR SHALL PERFORM THE NECESSARY CLEARING AND GRUBBING AND DEMOLITION TO THE PROPOSED

CONSTRUCTION SITE. 13. CONTRACTOR SHALL PROVIDE A SUBGRADE FREE OF SOFT AREAS AND SUITABLE FOR PAVING, EVEN IF THIS REQUIRES SUBGRADE PREPARATION TO A DEPTH GREATER THAN THAT SHOWN ON THE TYPICAL PAVEMENT SECTIONS.

14. WHERE NEW IMPROVEMENTS ABUT EXISTING IMPROVEMENTS THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE ELEVATIONS OF THE EXISTING IMPROVEMENTS.

15. PAVEMENT DIRECTION MARKINGS AND PARKING STALL LINES SHALL BE WHITE, EXCEPT AS NOTED OTHERWISE. 16. ACCESSIBLE PARKING SYMBOL SHALL BE PAINTED BLUE.

17. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE OWNER. CONTRACTOR SHALL TAKE MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS ON ADJACENT PROPERTIES AND ADJACENT TO THE WORK ACTIVITIES. CONTRACTOR SHALL DOCUMENT THE CONDITION OF EXISTING IMPROVEMENTS ON ADJACENT PROPERTIES AROUND THE PERIMETER OF THE SITE AND WITHIN THE WORK AREA PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO EXISTING IMPROVEMENTS RESULTING FROM CONSTRUCTION ACTIVITIES UNDER THE CONTRACTOR'S CONTROL. 18. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS:

A. LONGITUDINAL CONSTRUCTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 28 FEET AND OF THE KEYED TYPE.

B. LONGITUDINAL CONTRACTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 15 FEET AND SAWED TO 1/3 OF THE SLAB THICKNESS.

C. TRANSVERSE CONSTRUCTION JOINTS AT THE END OF EACH POUR AND WHEN PAVING OPERATIONS ARE SUSPENDED FOR 30 MINUTES OR MORE AND OF THE KEYED TYPE.

D. TRANSVERSE CONTRACTION JOINTS SPACED AT INTERVALS NOT GREATER THAN 15 FEET AND SAWED TO 1/3 OF THE SLAB THICKNESS.

E. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES, CONSTRUCTED WITH A 3/4" NON EXTRUDING FILLER, CLOSED-CELL FOAM RUBBER OR A BITUMEN-TREATED FIBER BOARD, AND WITH A THICKEND EDGE, INCREASED BY 33 PERCENT, TAPERED TO THE REGULAR THICKNESS IN 5 FEET, MINIMUM.

F. ALL JOINTS SHALL BE FILLED AND SEALED WITH A SEMI-RIGID JOINT SEALER.



LOCATION MAP SCALE: 1" = 200'

	DRAWING INDEX
	STRUCTURAL
G001	TITLE SHEET
C001	SITE UTILITY PLAN
S001	GENERAL NOTES
S002	GENERAL NOTES
S002	QUANTITIES/ NOTES
S101	OVERALL EXISTING SITE PLAN
S102	SITE PLAN
S103	OVERALL BULKHEAD LAYOUT PLAN
S104	ENLARGE DOCK LAYOUT PLAN
S201	BULKHEAD OVERALL SECTIONS
S301	BULKHEAD SECTIONS & DETAILS
S302	BULKHEAD SECTIONS & DETAILS (PLACE HOLDER)
S303	MOORING DOLPHIN PLANS, SECTION & DETAILS (GHD)
S304	WINCH FOUNDATION PLANS, SECTIONS & DETAILS (GHD)

PROJECT CONTACTS: **RICHARD GRENVILLE** VICE PRESIDENT OF MULTIMODAL LOGISTICS RGRENVILLE@PORTKC.COM 816-559-3726 **TERRY KELLEY**

TRANSPORT360 913-370-2095 EVERGY

AMAR CHEEMA AMARPREET.CHEEMA@EVERGY.COM 816-289-5610

ENS

SUITE 400 64108

UTILITY CONTACTS:

BP Pipelines North America(800)548-648.2)Bluebird Network417-57-7115CenturyLink/Qwest800-283-4237Consolidated Communications(888) 608-7822Comast800) 266-2278Fidelity Communications800-392-8070Google Fiber NOC866-954-1572Jackson County PWSD 2816-513-5500KCMO Street and Traffic Division816-513-1313KCMO Street and Traffic Division816-513-1313KCMO Street Lighting /Black & McDonald816-513-1313KCMO Water Services Dept Dispatcher816-513-1313Evergy888-471-5275Little Blue Valley Sewer DistrictJohnSlachers C:699-7360816-255-0396City of Lee's Summit816-957-0406Level 3 - Century Link816-957-0406Little Blue Valley Sewer DistrictJohnMissouri Department of Transportation888-275-6636Missouri Department of Transportation816-337-6012Suthern Star CGP800-321-0394Sinchair Transportation800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800-321-0394Sprint800	AT&T	800-246-8464
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	TRANSYST			2400 PERSHING ROAD, S	KANSAS CITY, MISSOUR PHONE: (816) 329-8600	FAX: (816) 329-8701
CONSULTANTS:						
BULKHEAD AND WINCH IMPROVEMENTS	GOVERNOR MICHAEL L. PARSON PORT TERMINAL	1742 MARKET STREET KANSAS CITY, MISSOURI				
REVISIONS:	PLANS FOR PRICING	NOT FOR FINAL CONSTRUCTION	D2/08/2024	22034	4	MARK DATE DESCRIPTION
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<u>GENERA</u>	L NOTES	
1. <u>DESI</u>	GN CODE	<u>S</u>
A.	2018 IN	ITERNATIONAL BUILDING CODE (IBC), ITS SUPPLEMENTS, AND LOCAL AMENDMENTS.
	a.	ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
	b.	AISC 341-16, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS"
	C.	AISC 360-16, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"

- d. ASCE 7-16, "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
- e. AWS D1.1, "STRUCTURAL WELDING CODE STEEL"
- f. AWS D1.4-2017, "STRUCTURAL WELDING CODE-REINFORCING STEEL INCLUDING METAL INSERTS AND CONNECTORS IN REINFORCED CONCRETE"

2. DESIGN CRITERIA

A. ALL STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE LOADS AND CRITERIA SHOWN BELOW AND ON THE CONTRACT DOCUMENTS. ANY INCREASE OF LOADS DUE TO CHANGE IN USAGE OR CONSTRUCTION MATERIALS, ETC. SHALL HAVE THE WRITTEN APPROVAL OF THE ENGINEER.

- B. CONTROLS HORIZONTAL: NORTH AMERICAN DATUM OF VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- C. WATER LEVELS WATER LEVELS WERE OBTAINED FROM USGS STATION XXXXX MISSOURI RIVER @ KANSAS CITY, MO DATUM: NORTH AMERICAN VERTICAL DATUM (NAVD88)

FEMA 100-YEAR FLOOD ELEVATION FLOOD STAGE (PEAK) NORMAL FLOW LOW FLOW	= XXX.XX FEET = XXX.XX FEET = 719.0 FEET = 707.7 FEET
CLIMATE FROST DEPTH	= 36 INCHES

- = 36 INCHES AMBIENT TEMPERATURE = 110 DEGREES F MAX = -20 DEGREES F MIN
- E. SNOW LOAD GROUND SNOW LOAD (P_o) = 20 PSF
- F. WIND LOAD

D.

- ULTIMATE DESIGN WIND SPEED (V_{ult}) = 105 MPH (ULT 3-SECOND GUST) NOMINAL DESIGN WIND SPEED (V_{asd}) = 90 MPH (ASD 3-SECOND GUST) FASTEST MILE WIND SPEED (V_{FM}) = 75 MPH WIND EXPOSURE = C
- G. EARTHQUAKE DESIGN DATA S_S = 0.179
 - $S_1 = 0.088$ SITE CLASS = D
 - S_{DS} = 0.191 S_{D1} = 0.141
- H. DESIGN LIVE LOADS: AS NOTED BELOW UNDER VERTICAL LIVE LOADS AND NOTED ON SHEET NO. S002
- I. DESIGN VESSELS: AS NOTED ON DRAWINGS
- J. VERTICAL DESIGN LIVE LOADS
 - TEREX FUCHS RHL 380 MATERIAL HANDLER
 - a. GROUND PRESSURE = X,XXX POUNDS PER SQUARE FOOT. b. BOOM LENGTH = XXm
 - c. COUNTERWEIGHT = XXXmT
 - SUPERIOR INDUSTRIES INC., TELESTACKER a. ESTIMATED GROUND CONTACT PRESSURE IS XX.XXX POUNDS PER SQUARE FOOT.

 - AASHTO HS-25 AXLE LOADING (AT BULKHEAD CAP) a. 10 KIPS AXLE LOAD AT FRONT
 - b. 40 KIPS AT DRIVE REAR AXLE
 - c. 40 KIPS AT TRAILER REAR AXLE
 - UNIFORM LIVE LOAD =
 - a. AS NOTED ON SHEET NO. S002
- K. LATERAL DESIGN LOADS
- a. BERTHING FORCES ARE BASED ON THE SHIP CRITERIA OUTLINED WITH THE BERTHING ENERGIES CALCULATED USING THE PROCEDURES PRESCRIBED BY PIANC. E-W BERTH, RATED ENERGY, ER = XXXX KNM RATED REACTION, RR = XXX KIPS
- L. BULKHEAD DESIGN DREDGE DEPTH
 - a. BULKHEAD DESIGN BASED ON ELEVATIONS NOTED IN SECTION 1/S201. MISSOURS RIVER BOTTOM AT THE BULKHEAD BEING AT ELEVATION 696.0'
- M. TEMPORARY CONSTRUCTION LOADS AND IMPACTS
- THE CONTRACTOR IS CAUTIONED NOT TO STORE OR STAGE ANY CONSTRUCTION MATERIALS, OR UNDERTAKE ANY CONSTRUCTION OPERATIONS THAT WILL EFFECT THE STABILITY OF THE EXISTING SHORE LINE EMBANKMENT. CONTRACTOR IS CAUTIONED THAT DEMOLITION METHODS MAY ADVERSELY AFFECT THE STABILITY OF THE EXISTING SHORE LINE EMBANKMENT. UTILIZE DEMOLITION METHODS TO LIMIT VIBRATIONS AND ADDITIONAL STRESSES ON THE EXISTING EMBANKMENT. MONITOR THE EXISTING EMBENKMENT AND SURVEY ELEVATIONS DAILY OR AS REQUIRED TO SAFELY EXECUTE THE DEMOLITION. N. ALL STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE DEAD LOADS SHOWN ON THE PLANS AND THE LIVE LOADS SHOWN ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO
- DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF THOSE ITEMS NECESSARY TO FACILITATE CONSTRUCTION INCLUDING BUT NOT LIMITED TO FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC.
- O. THE STRUCTURE HAS BEEN DESIGNED FOR THE DEAD AND LIVE LOADS INDICATED ABOVE. ANY INCREASE OF LOADS DUE TO CHANGE IN USAGE OR CONSTRUCTION MATERIALS, ETC. SHALL HAVE THE WRITTEN APPROVAL OF THE ENGINEER.
- 3. <u>GENERAL</u> A. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO FABRICATION OF ANY NEW MATERIALS.
- B. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS KNOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO WORK EXECUTION.

- C. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEIR SELF WITH THE LOCATION OF ANY UTILITIES IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION SITE THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR, THE CONTRA REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO TH OWNER.
- D. THE CONTRACTOR SHALL EXERCISE CARE DURING DEMOLITION AND C REQUIRED TO MAINTAIN THE STABILITY OF EXISTING CONSTRUCTION.
- E. LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED CONCRETE STRUCTURE MAY NOT SUPPORT IT'S DESIGN LIVE LOAD UN OBTAIN ITS 28 DAY COMPRESSIVE STRENGTH. CONTRACTOR SHALL SU STRUCTURES, UTILITIES AND EXCAVATIONS AS REQUIRED. CONTRACT DRAWINGS FOR ALL TEMPORARY FORMWORK, SHEETING, SHORING AN BY A PROFESSIONAL ENGINEER AS A PART OF THE CONTRACTOR'S WO
- F. THE PORTKC WOODSWETHER TERMINAL WILL BE RECEIVING VESSEL/E THE CONSTRUCTION PERIOD. CONTRACTOR SHALL BE REQUIRED TO M OR OTHER EQUIPMENT AS NECESSARY TO ALLOW FOR SAFE PASSAGE VESSEL.
- G. THE EXISTING SHORE LINE EMBANKMENT BETWEEN SHEET PILE CELLS 2 AND NO. 3 ARE EXTREMELY STEEP AS SUCH, THE CONTRACTOR SHAL EQUIPMENT WITHIN 10 FEET OF THE SLOPE.
- H. THE CONTRACTORS MEANS AND METHODS TO COMPLETE THE DEMOLI DEMOLITION MATERIAL FROM FALLING INTO THE RIVER. ALL DEMOLITIC INTO THE RIVER MUST BE RECOVERED AND REMOVED FROM THE RIVER
- BEFORE THE CONTRACTOR DEMOBILIZES, HE MUST DRAG THE BOTTOM DRAG BEAM TO CONFIRM A CLEAR BOTTOM.
- THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS BEFOR CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATT ENGINEER.
- K. ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE V AND ALL LOCAL ORDINANCES. THE CONTRACTOR (SEE SPECIFICATION EXPERIENCED, QUALIFIED INSPECTOR TO PERFORM ALL THE REQUIRE ENGINEER WILL NOT PERFORM THE REQUIRED INSPECTION AS A PART SERVICES. THE ENGINEER MAY VISIT THE SITE TO ASCERTAIN GENERAL THE CONTRACT DOCUMENTS. SUCH SITE VISITS ARE NOT TO BE CONST INSPECTION REQUIREMENTS UNLESS THE ENGINEER SPECIFICALLY SC
- L. ANY REVIEW OF STRUCTURAL ITEM SHOP DRAWINGS BY THE ENGINEER CONFORMANCE WITH THE DESIGN CONCEPT AS PRESENTED BY THE C NO DETAILED CHECK OF QUANTITIES OR DIMENSIONS WILL BE MADE.
- M. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CO MUST BE SUBMITTED BY THE GENERAL CONTRACTOR. IF A CONTRACTO SUBMIT THE SHOP DRAWINGS, THE ENGINEER WILL NOT BE RESPONSIE CERTIFICATION OR FOR THE DESIGN OF THE PROJECT.
 - AT THE TIME OF SHOP DRAWING SUBMISSION, THE GENERAL CON WRITING ANY DEVIATION OR OMISSIONS FROM THE CONTRACT DO THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS THE ENGINEER AND MAKE ALL CORRECTIONS AS DEEMED NECESS SHLL BEAR THE FOLLOWING STATEMENT: "I CERTIFY THAT THE CONTRACT DOCUMENT REQUIREMENTS HAV
 - DIMENSIONS, CONDITIONS, AND QUANTITIES ARE VERIFIED AS SHO CORRECTED ON THIS DRAWING,
 - SIGNED:. (FOR GENERAL CONTRAC
- N. THE STRUCTURAL CONTRACT DOCUMENTS ARE NOT TO BE REPRODUC DRAWINGS.
- O. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ELEVATIONS OF THE EXISTING STRUCTURES IN THE FIELD PRIOR TO IN AND ORDERING MATERIALS. DO NOT SCALE DIMENSIONS FROM DRAWI
- P. IF DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR FIND DISCREPANCY RELATED TO THE EXISTING DETAILS AND DIMENSIONS C STRUCTURES, THE CONTRACTOR SHALL REPORT SUCH DISCREPANCIE ONCE BEFORE PROCEEDING WITH THE WORK.
- Q. PLAN DIMENSIONS, ELEVATIONS, AND DETAILS RELATIVE TO EXISTING \$ TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTR SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIME DETAILS IN THE FIELD AND MAKE NECESSARY ADJUSTMENTS, APPROVE PRIOR TO CONSTRUCTION OR PROCURING MATERIALS. SUCH VARIATIO FOR ADDITIONAL COMPENSATION FOR CHANGE IN THE SCOPE OF WOR
- 4. FOUNDATIONS 4A. <u>GENERAL</u>
- A. ALL FOUNDATION EXCAVATIONS SHALL BE CLEAN AND FREE OF DEBRIS AND LOOSE SOIL PRIOR TO PLACEMENT OF CONCRETE
- 4B. STEEL PILES
- A. ALL STEEL H-PILES SHALL BE DRIVEN TO THE MINIMUM CAPACITIES NO INSTALLATION AND THE DETERMINATION OF THE CAPACITIES OF PILES REQUIREMENTS SPECIFIED IN SECTION 605 OF THE MARYLAND SHA SP OF PILES SHALL NOT BE PERMITTED. ALL PILES SHALL BE DRIVEN TO T ELEVATIONS NOTED.
- B. PILE TYPES
- a. HPILES SHALL BE PROVIDED IN ACCORDANCE WITH ASTM A572 - GRADE 50, Fy = 50,000 PSI.
- b. PIPE PILES SHALL BE PROVIDED IN ACCORDANCE WITH ASTM /
- C. MINIMUM PILE CAPACITIES SHALL BE AS FOLLOWS:
- D. ESTIMATED PILE TIP ELEVATION
- E. SEE THE PROJECT GEOTECHNICAL REPORT FOR INFORMATION REGAR CONDITIONS AND RECOMMENDATIONS FOR PILE INSTALLATION CRITER
- F. CONTRACTOR SHELL HIRE GEOTECHNICAL ENGINEER TO TEST AND MC INSTALLATION.
- G. AT THE ONSET OF PILE DRIVING, THE FIRST PRODUCTION PILE SHALL PILE DYNAMIC ANALYSIS (PDA) ON INITIAL DRIVE AND RESTRIKE TO EST CRITERIA BASED ON HAMMER SELECTION.
- J. ADDITIONALLY, (XX) PRODUCTION PILES SHALL BE PDA TESTED ON RESTRIKE TO CONFIRM PILE CAPACITIES. REFER TO PROJECT BID FORM FOR QUANTITY OF PILES TO BE RESTRUCK.

	K. SUBMIT PILE DRIVING HAMMER DATA AND PILE DRIVING LOGS TO ENGINEER FOR REVIEW.			
ELF WITH THE LOCATION OF SITE TO PREVENT DAMAGE TO		J.		IONS RESTRICT DRIVING A PILING TO THE SPECIFIED PENETF NS SHALL BE REMOVED OR PENETRATED WITH A CHISEL/GUI
TRACTOR SHALL BE	L. CONTRACTOR SHALL KEEP PILE DRIVING LOGS AND MONITOR THE PILE INSTALLATION AS DIRECTED BY THE GEOTECHNICAL ENGINEER. CONTRACTOR IS RESPONSIBLE FOR:		CONTRACTOR	R DEMONSTRATES THAT REMOVAL OR PENETRATION IS IMPR
) THE SATISFACTION OF THE	a. PILE INSTALLATION EQUIPMENT INSPECTION.			R SHALL MAKE CHANGES IN THE DESIGN ALIGNMENT OF THE ' THE ENGINEER TO INSURE THE ADEQUACY AND STABILITY C
	b. KEEPING THE LOG OF MOVEMENT OF PREVIOUSLY INSTALLED ADJACENT PILES.			
D CONSTRUCTION AS	c. KEEPING PILE DRIVING LOG.	К.		IVING PILINGS, A HORIZONTAL LINE SHALL BE PAINTED ON TH
Ν.	 ADVISING THE ENGINEER OF ANY VARIATIONS AND DISCREPANCIES IN THE PILE DRIVING IMMEDIATELY ON OCCURRENCE. 			IXED DISTANCE FROM THE BOTTOM SO THAT IT SHALL BE VIS JND LINE AFTER INSTALLATION. THIS LINE SHALL INDICATE T
CED ON THE STRUCTURE. A				VATION OF INSTALLED PILINGS AND POTENTIAL PROBLEM AR HANGES IN ITS ELEVATION.
UNTIL THE CONCRETE HAS	4C. STEEL SHEET PILE		DT ADROFT C	HANGES IN TIS LEEVATION.
ACTOR SHALL SUBMIT SHOP		L.		S SHALL BE PROVIDED AS ONE PIECE. NO SPLICES WILL BE A
AND UNDERPINNING SEALED WORK.	A. THE INTERLOCKS OF THE SHEETING AND H-PILE SHALL BE FREE SLIDING. PROVIDE A SWING ANGLE SUITABLE FOR THE INTENDED INSTALLATION, AND MAINTAIN CONTINUOUS INTERLOCKING		OTHERWISE A	APPROVED BY THE ENGINEER.
	WHEN INSTALLED. SHEET PILING SHALL BE FULL-LENGTH SECTIONS OF THE DIMENSIONS SHOWN ON THE DRAWINGS. FABRICATED SECTIONS SHALL CONFORM TO THE REQUIREMENTS HEREIN	М	SHEET PILING	SS SHALL BE CAREFULLY LOCATED AS SHOWN ON THE DRAW
EL/BARGE DELIVERIES DURING	AND THE PILING MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR SHALL FIELD INSPECT		WALES, TEMF	PLATES, OR GUIDE STRUCTURES SHALL BE PROVIDED TO INS
O MOVE THEIR WORK BARGES	ALL SHEETING TO BE FREE OF DAMAGE AND ALIGNMENT PRIOR TO INSTALLING THE COATING.		ARE PLACED	AND DRIVEN TO THE CORRECT ALIGNMENT.
	B. THE SHEET PILES AND SHALL BE COATED KING PILES WITH COAL TAR EPOXY COATING ON THE	N.	SHEET PILING	GS PROPERLY PLACED AND DRIVEN SHALL BE INTERLOCKED
LLS NO. 1 AND NO. 2 AND NO.	WATER SIDE FLANGE AND THE SHEET PILES PROVIDED WITH COAL TAR EPOXY COATING ONLY ON THE WATERSIDE FACE. THE COAL TAR EPOXY EPOXY COATING SHALL BE INSPECTED BY A		LENGTH WITH SHALL BE MA	HADJACENT PILINGS TO FORM A CONTINUOUS WALL. HORIZO
HALL NOT STAGE ANY	THIRD-PART AGENCY FOR DAMAGES AND DEFICIENCIES PRIOR TO INSTALLATION.			
		0.		EN SHEET PILES HAVE EXCEEDED AT THE SPECIFIED TOLERA
OLITION SHALL MINIMIZE THE	C. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AND DEFECTED COATING TO THE KING PILES AND SHEET PILES.			R SHALL REMOVE SUCH PILES AND DRIVE SUBSTITUTE PILES E OWNER. DETAILS OF SUBSTITUTE PILES SHALL BE APPROVI
ITION MATERIAL THAT FALLS IVER BOTTOM.			PRIOR TO INS	STALLATION.
	D. STEEL SHEET PILING:	P		R SHALL CUT OFF THE TOP OF DRIVEN SHEET PILES WITHIN 1
TOM OF THE RIVER WITH A		1.		SHOWN IN THE DRAWINGS.
	 a. SHEET PILING SHALL BE HOT-ROLLED STEEL SECTIONS CONFORMING TO ASTM A572 OR EQUIVALENT. HOT-ROLLED SECTIONS CONFORMING TO ASTM A588 OR ASTM A690 (OR 			ECTION OF DRIVEN PILING: THE CONTRACTOR SHALL INSPECTION OF DRIVEN PILINGS EXTENDING ABOVE THE BOTTOM. PILINGS
ORE PROCEEDING WITH	EQUIVALENT) ARE ALSO ACCEPTABLE. MINIMUM YIELD STRENGTH SHALL BE 60,000 PSI. INTERLOCKS SHALL BE FREE SLIDING, PROVIDE A SWING ANGLE SUITABLE FOR THE		OUT	OF INTERLOCK SHALL BE REMOVED AND REPLACED AT THE
ATTENTION OF THE	INTENDED INSTALLATION, AND MAINTAIN CONTINUOUS INTERLOCKING WHEN INSTALLED.			ENSE. THE CONTRACTOR SHALL RETAIN A DIVER TO INSPEC RLOCKED JOINTS OF SHEET PILING AND SUBMIT A SUMMAR)
	SHEET PILING SHALL BE FULL-LENGTH SECTIONS OF THE DIMENSIONS SHOWN ON THE DRAWINGS. FABRICATED SECTIONS SHALL CONFORM TO THE REQUIREMENTS HEREIN			INEER FOR REVIEW AND APPROVAL. DIVERS SPECIFIED BY (IGNATED REPRESENTATIVE MAY ALSO INSPECT THE INTERL(
E WITH THE BUILDING CODE	AND THE PILING MANUFACTURER'S RECOMMENDATIONS.		DESI	IGNATED REPRESENTATIVE MAY ALSO INSPECT THE INTERLO
IONS) SHALL HIRE AN IRED INSPECTION WORK. THE	b. SHEET PILING SECTION PROPERTIES; PROVIDE:	Q.		CTOR SHALL REMOVE ALL SHEET PILE CUT-OFFS AND OTHER
RT OF THEIR DESIGN	b. Sheet heliko sechoki koreknes, rikovide.		JOB SITE.	
ERAL CONFORMANCE WITH NSTRUED AS MEETING ANY	i. NZ19 SECTION	5 CAST	-IN-PLACE CON	ICRETE
SO STATES IN WRITING.	 SECTION MODULUS = 35.08 IN 3/FT, MIN. 	0. <u>0/101</u>		
IEER IS FOR GENERAL	 FLANGE THICKNESS = 3/8" WEB = 3/8" 	5A.	GENERAL CO	NSTRUCTION
E CONTRACT DOCUMENTS.		٨		
Ξ.	c. SHEET PILING SHALL BE DRIVEN TO DEPTHS SHOWN ON DRAWING AND SHALL EXTEND UP TO THE ELEVATION INDICATED ON THE DRAWING FOR TOP OF SHEET PILING. A	А.		TE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LO THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:
CONTRACT DOCUMENTS	TOLERANCE OF PLUS OR MINUS 1 INCH FROM THE INDICATED TOP ELEVATION WILL BE			
CTOR OR OWNER FAILS TO	PERMITTED.		ACI-301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUIL
	E. ALL STEEL SHEET PILING SHALL BE INSTALLED TO THE MINIMUM TIP ELEVATIONS NOTED ON THE		ACI-302,1R ACI-318	FLOOR AND SLAB CONSTRUCTION BUILDING CODE REQUIREMENTS FOR REINFORCED CON
	PLAN THROUGH USE OF EITHER VIBRATORY OR IMPACT HAMMERS AS REQUIRED. SHEET PILING SHALL MEET THE REQUIREMENTS OF SECTION 605 OF SHA SPECIFICATIONS. JETTING OF SHEET		ACI-214	COMPRESSION TESTS
CONTRACTOR SHALL STATE IN I DOCUMENTS.	PILING SHALL NOT BE PERMITTED.		ACI-306	COLD WEATHER
NGS BEFORE SUBMISSION TO			ACI-315 ACI-347	DETAILING FORMWORK
ESSARY. EACH DRAWING	F. SHEET PILING SHALL BE DRIVEN TO DEPTHS SHOWN ON DRAWING AND SHALL EXTEND UP TO		ACI-347 ACI-305	HOT WEATHER
HAVE BEEN MET AND ALL	THE ELEVATION INDICATED ON THE DRAWING FOR TOP OF SHEET PILING. A TOLERANCE OF PLUS OR MINUS 1 INCH FROM THE INDICATED TOP ELEVATION WILL BE PERMITTED. BEFORE		ACI-211	PROPORTIONS OF CONCRETE
SHOWN AND/OR AS	PROCEEDING WITH ANY WORK ON SITE, CONTRACTOR SHALL SUBMIT FOR REVIEW WRITTEN PROCEDURES/DRAWINGS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING OPERATIONS:		ACI-304	PLACING CONCRETE
	a. PILE HANDLING/DRIVING EQUIPMENT AND METHODS INCLUDING HAMMER SIZE, TYPE,		ACI-ASCE/423	
	AND MANUFACTURER.		ASTM C94	READY-MIX CONCRETE
RACTOR)	 MANUFACTURER'S MILL CERTIFICATE CERTIFY THAT STEEL MEETS OR EXCEEDS SPECIFIED REQUIREMENTS. 	В.	ALL FIELD AN	D LAB TESTING OF CONCRETE SHALL CONFORM TO THE LAT
	c. PROVIDE SHOP DRAWINGS, WHICH SHALL AT MINIMUM IDENTIFY PILE SECTION		LOCAL GOVE	RNMENT) EDITIONS OF ASTM:
DUCED FOR USE AS SHOP	PROPERTIES AND WALL THICKNESS, PILE LENGTH PRIOR TO DRIVING, LOCATIONS AND TYPES OF WELDS, CORNER DETAILS, CLOSURE DETAILS AT EX. SHEET PILE WALLS AND		ASTM C31	FIELD CYLINDER SPECIMENS
	CUT OFF ELEVATIONS.		ASTM C143	SLUMP TEST
ALL DIMENSIONS AND	F. A GEOTECHNICAL ENGINEER SHALL MONITOR AND DIRECT THE SHEET PILE INSTALLATION AS		ASTM C231	AIR CONTENT (WHEN REQUIRED)
) INITIATING CONSTRUCTION AWINGS FOR CONSTRUCTION.	FOLLOWS:		ASTM C39 ASTM C172	LAB TESTING CYLINDERS
			ASTM C172 ASTM C42	SAMPLING FRESH CONCRETE HARDENED CORES (WHEN REQUIRED)
INDS A CONFLICT OR S OF THE EXISTING	 a. HAMMER SELECTION, SIZE, EFFICIENCY OF HAMMER b. FOR CAPACITY TO INSTALL SHEET PILING TO TIPS INDICATED 			
ICIES TO THE ENGINEER AT	c. REVIEW THE CONTRACTOR METHODS TO INSTALL THE SHEET PILING.		UPON COMPL FOLLOWS:	ETION OF CONCRETE TESTING, THE AGENCY SHALL CERTIFY
	d. TIPS OF SHEET PILING IS EMBEDDED INTO THE STRATUM SUCH TO DEVELOP STABILITY		FULLOWS:	
NG STRUCTURES HAVE BEEN	OF THE SHEET PILE WALL BOTTOM.		-	HAT THE FIELD AND LAB TESTING CONFORMS TO THE ASTM D
STRUCTION VARIATIONS. IT MENSIONS, ELEVATIONS, AND	G. THE CONTRACTOR SHALL MONITOR THE DRIVEN SHEET PILES FOR CORRECT PLACEMENT.		PRACTICE.	
OVED BY THE ENGINEER,	CORRECT VERTICAL PLUMB, ELEVATION AT THE TOP OF THE CUT PILE, AND DRAWDOWN WHICH COULD BE CAUSED BY THE DRIVING OF NEARBY PILES. DRAWDOWN MEASUREMENTS SHALL BE		SIGNED	, P.E.
TIONS SHALL NOT BE CAUSE	MADE AT THE TOP OF THE PILE. IF THE PILES DRAWDOWN, THEY SHALL BE PULLED AND		0101120	(FOR AGENCY)"
	RE-DRIVEN TO THE ORIGINAL ELEVATION AT CONTRACTOR'S EXPENSE. A CERTIFIED DRAWING REFLECTING THE LOCATION AND ELEVATION OF THE DRIVEN PILES SHALL BE PROVIDED TO THE			
	OWNER OR THE OWNER'S REPRESENTATIVE WITHIN FORTY-EIGHT HOURS OF COMPLETION OF	C.		TE, UNLESS NOTED OTHERWISE, SHALL BE STONE AGGREGA OMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS. ALL CONC
	THE WORK.			ALL HAVE AN AIR ENTRAINMENT OF 6%±1.5%. NO ADMIXTUR
BRIS, STANDING WATER,	H. THE CONTRACTOR SHALL LOG EACH SHEET PILE AND PROVIDE A RECORD WITH THE FOLLOWING		BE 3/4", AND N	ORIDE SHALL BE PERMITTED. MAXIMUM AGGREGATE SIZE F MAXIMUM SLUMP SHALL BE 3". ALL CONCRETE, SHALL CONTA
,				PROVIDE 2 GALLONS PER CUBIC YARD OF DCI (CALCIUM NITR AD CONCRETE CAP BEAM.
	a. DATE OF INSTALLATIONb. LOCATION IDENTIFICATION MARKS.			
	c. HAMMER EQUIPMENT AND OPERATION.	D.		TE MIX DESIGNS AND ADMIXTURES SHALL BE APPROVED BY
NOTED ON THE PLANS.	d. SHEET PILE RATE OF PENETRATION.		PRIOR TO INI	TIATION OF FIRST POUR.
ES SHALL MEET THE SPECIFICATIONS. JETTING	e. LENGTH FROM TIP TO CUT-OFF. f. CUT-OFF ELEVATION.	E.	ADMIXTURES	FOR CONCRETE SHALL BE IN ACCORDANCE WITH THE MAUF
O THE MINIMUM TIP	g. PLUMB (DEVIATION FROM VERTICAL, INCHES PER FOOT).		RECOMMEND	ATIONS AND SHALL CONFORM TO THE REQUIREMENTS OF AS
	h. IF SHEET PILING ARE DRIVEN TO INDICATED TIP ELEVATION RECORD BLOW COUNTS PER	F	ALL CEMENT	SHALL CONFORM TO ASTM C 150, TYPE II, UNLESS OTHERWIS
	FOOT FOR THE LENGTH OF PILE DRIVEN.i. COMPLETE LOGS AT THE END OF EACH DAY'S WORK AND IMMEDIATELY SUBMIT THREE		ENGINEER.	
	(3) LEGIBLE COPIES SIGNED BY THE CONTRACTOR'S REPRESENTATIVE TO THE OWNER	~		
	OR THE OWNER'S REPRESENTATIVE.	G.	ALL UEMENT	SHALL CONFORM TO THE REQUIREMENTS OF ASTM C33.
TM A252 - GRADE 3	I. PILE DRIVING HAMMERS: HAMMERS SHALL BE STEAM, AIR, OR DIESEL DROP, SINGLE ACTING,	H.	ALL CONCRE	TE SHALL BE SAMPLED AND TESTED BY AN AGENCY RETAINE
	DOUBLE-ACTING, DIFFERENTIAL ACTING, OR VIBRATORY TYPES. THE HAMMER USED SHALL HAVE		CONTRACTOR	R. THE CONTRACTOR SHALL NOTIFY THE TESTING AGENCY 4 ANY CONCRETE.
	A DELIVERED ENERGY SUITABLE FOR THE TOTAL WEIGHT OF THE PILE AND THE CHARACTER OF SUBSURFACE MATERIAL TO BE ENCOUNTERED. THE CONTRACTOR MAY CEASE DRIVING BEFORE			SSHSHELL
	REACHING THE REQUIRED PENETRATION ONLY WITH THE CONCURRENCE OF THE GEOTECHNICAL ENGINEER MONITORING THE SHEET PILE INSTALLATION AND THE STRUCTURAL	I.		ORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRE
	ENGINEER.			FOR CONCRETE", SPECIAL PUBLICATION NO. 4 AND ACI'S "ST. ED PRACTICE FOR CONCRETE FORMWORK"
GARDING SUBSURFACE TERIA.	a. PILINGS SHALL BE DRIVEN WITH THE PROPER SIZE HAMMER AND BY APPROVED METHODS SO AS NOT TO SUBJECT THE PILINGS TO DAMAGE AND TO ENSURE PROPER		(ACI-347, LATE	EST LOCAL APPROVED EDITION).
	INTERLOCKING THROUGHOUT THEIR LENGTHS. DRIVING HAMMERS SHALL BE		a. ALL (COCRETE EXPOSED TO VIEW SHALL BE FORMED USING A SM
MONITOR THE TEST PILING	MAINTAINED IN PROPER ALIGNMENT DURING DRIVING OPERATIONS BY USE OF LEADS OR GUIDES ATTACHED TO THE HAMMER. A PROTECTING CAP SHALL BE EMPLOYED IN	J.	ALL EXPOSED	D EDGES OF CONCRETE BEAMS AND COLUMNS SHALL BE CHA
	DRIVING WHEN USING IMPACT HAMMERS TO PREVENT DAMAGE TO THE TOPS OF PILINGS.			
L BE INSTRUMENTED FOR	b. PILINGS DAMAGED DURING DRIVING OR DRIVEN OUT OF INTERLOCK SHALL BE REMOVED			
ESTABLISH PILE DRIVING	AND REPLACED AT THE CONTRACTOR'S EXPENSE. PILINGS SHALL BE DRIVEN WITHOUT			
	THE AID OF A WATER JET. ADEQUATE PRECAUTIONS SHALL BE TAKEN TO INSURE THAT PILINGS ARE DRIVEN PLUMB.			

			2
E SPECIFIED PENETRATION, THE	5B. <u>REINFORCING STEEL</u>	N	TE 400 4108
D WITH A CHISEL/GUILLOTINE BEAM. IF THE ENETRATION IS IMPRACTICAL, THE ALIGNMENT OF THE PILING STRUCTURE AS ICY AND STABILITY OF THE STRUCTURE.	A. EXCEPT AS NOTED, ALL REINFORCING SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A-615 (LATEST LOCAL APPROVED EDITION) (FY=60,000 PSI). WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI'S MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI-315). EPOXY COATED BARS ARE NOT REQUIRED.	YSTE	NG ROAD, SUITE 400 , MISSOURI 64108 329-8600 -8701
L BE PAINTED ON THE LAND SIDE OF EACH HAT IT SHALL BE VISIBLE ABOVE THE E SHALL INDICATE THE PROFILE OF THE ENTIAL PROBLEM AREAS CAN BE IDENTIFIED	 B. PROVIDE CONCRETE PROTECTION FOR REINFORCING BARS AS FOLLOWS: BULKHEAD CAP: TOP BARS 2 1/2" BOTTOM BARS 3" 	IRÅNSYSTEMS	8SHIN CITY (816) (329
) SPLICES WILL BE ALLOWED UNLESS	OTHERS 3" C. WHERE CONTINUOUS BARS ARE CALLED FOR, THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. LAPS		2400 PEF KANSAS PHONE: (
IOWN ON THE DRAWINGS. TEMPORARY BE PROVIDED TO INSURE THAT THE PILINGS	SHALL BE NOT LESS THAN THE TYPICAL SPLICE LENGTH UNLESS NOTED. GRADUALLY, LAP TOP BARS AT MID-SPAN AND BOTTOM BARS AT SUPPORTS.		
NT. L BE INTERLOCKED THROUGHOUT THEIR	D. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.		
JOUS WALL. HORIZONTAL ALIGNMENT	E. ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION).		
E SPECIFIED TOLERANCES, THE E SUBSTITUTE PILES AT NO ADDITIONAL S SHALL BE APPROVED BY THE ENGINEER	F. ALL PILE DOWELS SHALL BE PROVIDED AS ASTM 706 GR. 60 HEADED DOWELS.		
IEET PILES WITHIN 1" OF SPECIFIED	G. 100% OF THE DOWELS WELDED TO PILES SHALL BE VISUALLY INSPECTED BY A THIRD PARTY INSPECTION AGENCY.		
CTOR SHALL INSPECT THE INTERLOCKED	6. STRUCTURAL AND MISCELLANEOUS STEEL		
/E THE BOTTOM. PILINGS FOUND TO BE REPLACED AT THE CONTRACTOR'S A DIVER TO INSPECT UNDERWATER SUBMIT A SUMMARY REPORT TO THE ERS SPECIFIED BY OWNER OR OWNER'S	A. BULKHEAD TIE BACK / SOIL BARS SHALL BE THREADED HOLLOW BARS AS MANUFACTURED BY NUCOR SKYLINE STEEL. PROVIDE GRADE 75 KSI HOLLOW BARS WITH A HOT DIPPED GALVINIZED COATING.	ANTS:	
ISPECT THE INTERLOCKED JOINTS. JT-OFFS AND OTHER DEBRIS FROM THE	B. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO THE FOURTEENTH EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND ALL ITS SUPPLEMENTS, AND TO THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."	CONSULTANTS:	
	 ALL STRUCTURAL STEEL SHALL BE AS FOLLOWS UNLESS OTHERWISE STATED IN THE PLANS AND SPECIFICATIONS: PLATESASTM A36, FY = 36,000 PSI UNLESS OTHERWISE NOTED ANCHOR BOLTSASTM F1554 GR. 55, FY = 55,000 PSI 	NAL	
ST APPROVED (BY LOCAL GOVERNMENT) UMENTS:	TIE-RODSASTM A615 GR. 75, FY = 75,000 PSI HEADED SHEAR STUDSASTM A108, FU = 65,000 PSI CHANNELSASTM A-36, FY = 36,000 PSI UNLESS OTHERWISE NOTED	ERMI	
CONCRETE FOR BUILDINGS	BULKHEAD WALER CHANNELASTM A 572 GR. 50, FY = 60,000 PSI WIDE FLANGE BEAMSASTM A992	VEME RT TE	S
R REINFORCED CONCRETE	MISCELLANEOUS STEELASTM A-36, FY = 36,000 PSI D. STEEL TUBES SHALL CONFORM TO ASTM A500 GRADE B, FY = 46,000 PSI.	MPRO ^V DN PO REET SOURI	Ť
			i
	E. UNLESS OTHERWISE NOTED ALL WELDED CONNECTIONS SHALL BE PERFORMED WITH E70XX ELECTRODES. SHOP AND FIELD WELDS SHALL BE MADE BY APPROVED CERTIFIED WELDERS AND SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE FOR BUILDINGS AWS D1.1. WELDS SHALL DEVELOP THE FULL STRENGTH OF THE MATERIALS BEING WELDED, UNLESS OTHERWISE NOTED.	/INCH] PARS RKET ST CITY, MIS	õ
NFORM TO THE LATEST APPROVED (BY	F. ALL STEEL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A-153. WHERE ASTM A-690 STEEL IS UTILIZED BOLTS, NUTS, AND WASHERS MAY CONFORM TO ASTM A-325 TYPE 3 IN LIEU OF GALVANIZED.) AND W CHAEL I 1742 MAI KANSAS (Q
ED)	G. ALL BUTT WELDS SHALL BE FULL PENETRATION BUTT WELDS IN ACCORDANCE WITH THE STRUCTURAL WELDING CODE (ANSI/AWS D1.1). THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE STRUCTURAL WELDING CODE IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY. ACCEPTANCE TO BE SUBJECT TO THE INSPECTION AND REVIEW OF AN INDEPENDENT INSPECTION AGENCY.	KHEAI OR MI	
	H. WELDING SEQUENCE AND TECHNIQUE SHALL BE SUCH THAT DISTORTION OF STEEL MEMBERS IS	BULI ERN	
QUIRED)	MINIMIZED AND UNDUE DISTORTION IS AVOIDED.	HAC	
NCY SHALL CERTIFY THEIR RESULTS AS	I. THE ENGINEER RESERVES THE RIGHT, BASED UPON THE DESIGN INTENT AND SCOPE OF WORK FOR THIS CONTRACT, TO REQUIRE ADDITIONAL INFORMATION OR APPROVAL OF ANY MANUFACTURER, MATERIAL, PRODUCT, OR ASSOCIATED MATERIALS USED IN THIS SECTION.		
RMS TO THE ASTM DOCUMENTS AND GOOD	 J. WELDED STUDS: AWS D1.1 SECTION 7 AND AWS D1.5 a. SHEAR STUDS SHALL BE PROVIDED W/ SPECIAL FERRULE FOR WELDING ON HORIZONTAL POSITION. STUDS SHALL BE WELDED TO MEMBER DEVELOPING THE YIELD STRENGTH OF THE STUD. WELD STUDS WITH WELDING GUNS OR OTHER METHODS APPROVED BY THE ENGINEER. SHEAR STUDS SHALL BE PROVIDED IN ACCORDANCE WITH ASTM A108 TYPE B HEADED STUDS. 	CTION	
BE STONE AGGREGATE CONCRETE HAVING 28 DAYS. ALL CONCRETE EXPOSED TO	7. CONCRETE ANCHORS		
1.5%. NO ADMIXTURES CONTAINING AGGREGATE SIZE FOR CONCRETE SHALL RETE, SHALL CONTAIN A WATER REDUCING F DCI (CALCIUM NITRATE) ADDITIVE FOR	A. ALL ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL AND IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.	NR PRICI	UZ/U0/Z0Z4
L BE APPROVED BY THE ENGINEER 30 DAYS	B. ALL CONTRACTOR PERSONNEL UTILIZED TO INSTALL POST-INSTALLED ANCHORS SHALL ATTEND ON SITE TRAINING BY THE ANCHOR MANUFACTURER. THE CONTRACTOR SHALL COORDINATE ANCHOR INSTALLATION TRAINING WITH THE ANCHOR MANUFACTURER AND THE CONTRACTOR SHALL SUBMIT CERTIFICATES FROM THE MANUFACTURER FOR ALL PERSONNEL WHO ATTENDED		
NCE WITH THE MAUFACTURER'S EQUIREMENTS OF ASTM C494.	THE TRAINING. THE MANUFACTURER'S CERTIFICATE MUST STATE THE SPECIFIC TYPE OF ANCHORS THE PERSONNEL COMPLETED TRAINING TO INSTALL.	ANS R FIN	
, UNLESS OTHERWISE APPROVED BY THE	8. <u>PROTECTIVE COATINGS</u> A. ALL STEEL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE	FOR	
S OF ASTM C33.	WITH ASTM A-153. WHERE ITEMS ARE COMPLETELY ENCASED IN CONCRETE, THEY SHALL BE PERMITTED TO BE BLACK STEEL UNLESS NOTED OTHERWISE.	:snoi	DAT
N AGENCY RETAINED BY THE TESTING AGENCY 48 HOURS PRIOR TO THE	9. CORROSION PROTECTION		MARK
E AMERICAN CONCRETE INSTITUTE NO. 4 AND ACI'S "STANDARD RK"		SCALE: N/A	08/2024
ORMED USING A SMOOTH FORM FINISH			.K. / MS
UMNS SHALL BE CHAMFERED 3/4".		SHEET TITLE:	
		GENE NOT	
		SHEET NO.	01
		SHEET OF	

SUMMARY OF QUANTITIES		
Item	Quantity	Unit
Site		
Mobilization	1	LSUM
Permitting	1	LSUM
Site Grading	1	LSUM
Construction Staking	1	LSUM
Temporary Erosion Control	1	LSUM
Site Safety Control	1	LSUM
*Slope Stabilization	1,100	SY
Concrete, 5000 PSI - 12" Tk., #5@12" Cnt. (Top & Bot.)	1,200	SY
Aggregate Base	270	CY
**Removal of Existing Structures	1	LSUM
Sheet Pile Bulkhead		
Sheet Pile (NZ19x85' Long)	50	PAIRS
King Pile (W44x290 x 90' Long)	52	EA
Tie-Back Anchors	100	EA
Whaler	340	LF
***Granular Fill	20,500	CY
Anchor Proof Testing (100 Anchors)	1	LSUM
****Verification Test Pile (For Anchors)	2	EA
Barge Test Borings	3	EA
Compaction of Fill (Approx. 16,500 CY above active waterline)	1	LSUM
Compaction of Fill (Approx. 4,000 CY below active waterline)	1	LSUM
Stormwater - Junction Box	1	EA
Stormwater - Storm sewer Pipe	40	LF
Concrete Pile Cap (Mooring)	1	EA
H-Pile(s) - HP 14x89	4	EA
Winch		
40,000 lb Winch (Upriver)	1	EA
25,000 lb Winch (Downriver)	1	EA
H-Piles	8	EA
Concrete Pile Cap (Winch)	2	EA
Mooring Dolphin	2	EA
Electrical	1	LSUM

*ASSUMED SOIL NAIL SYSTEM.

**THE LUMP SUM BID ITEM "REMOVAL OF EXISTING STRUCTURES" SHALL INCLUDE ALL COSTS FOR THE REMOVAL OF EXISTING FOUNDATIONS, THREE (3) MOORING DOLPHINS (SHOWN TO BE REMOVED), CONCRETE DOCK AND SUB-STRUCTURE, EXISTING TIMBERS (TO GROUND LINE), EXISTING FILL DEBRIS (NOT BEING UTILIZED), AND ANY OTHER ITEM(S) SLATED FOR REMOVAL FOR WHICH A PAY ITEM IS NOT PROVIDED FOR IN THE PROPOSAL.

*** USE EXISTING ON-SITE MATERIAL AS AVAILABLE. APPROXIMATELY 8,500 CY OF FILL MATERIAL IS AVAILABLE ON-SITE. ORGANICS, TIMBERS, STEEL, ETC. SHALL BE REMOVED FROM EXISTING MATERIAL PRIOR TO PLACING. EXISTING FILL SHALL BE PULVERIZED AS REQUIRED TO MEET GRANULAR FILL REQUIREMENTS.

****TWO TESTS WILL BE TO DEPTHS AT PROPOSED ANCHORS.

OWNER:

CITY OF KANSAS CITY, MISSOURI C/O: MID-WEST TERMINAL WAREHOUSE CO. 1724 MARKET STREET KANSAS CITY, MISSOURI 64105

LEGAL DESCRIPTION:

LEGAL DESCRIPTION: ALL LAND LOCATED SOUTH OF THE U.S. HARBOR LINE AND NORTH OF THE LEVEE, EXTENDING FROM LIBERTY STREET ON THE EAST TO THE MISSOURI-KANSAS STATE LINE ON THE WEST, CONSISTING OF THE FOLLOWING DESCRIBED PROPERTY: PART OF LOTS 32 THRU 36, AND LOTS 37 THRU 51, INCLUSIVE IN BLOCK 11 AND LOT 23 BLOCK 12, WOODWETHER INDUSTRIAL DISTRICT, A SUBDIVISION IN KANSAS CITY, MISSOURI, MORE GENERALLY DESCRIBED AS THE AREA LYING NORTH OF THE LEVEE EXTENDING FROM THE WEST LINE OF LIBERTY STREET WEST TO STATE LINE.

SITE NOTES:

WOODSWETHER TERMINAL SITE LOCATED AT MISSOURI RIVER MILE 367.1 IN THE INDUSTRIAL DISTRICT OF KANSAS CITY, MISSOURI.

PROJECT BENCHMARK

TBM 2: CHISLED SQUARE ON TOP CENTER EAST END OF WEST CONCRETE FLOOD WALL AT THE NOTRH END STATE STREET AT GATE, 350'± NORTH OF WOODWETHER ROAD. ELEV.=760.16

VERTICAL CONTROL

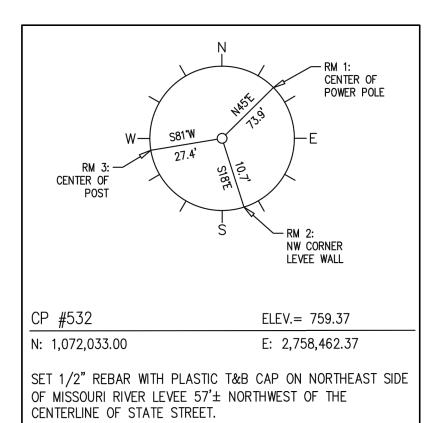
TBM #4 SET COTTON GIN SPINDEL IN SOUTHWEST FACE OF A POWER POLE 152'± NORTH NORTHEAST OF FLOOD WALL ALONG A PROLONGATION OF THE EASTERLY LINE OF LIBERTY STREET 370'± NORTH OF WOODSWETHER ROAD. ELEV.=752.78

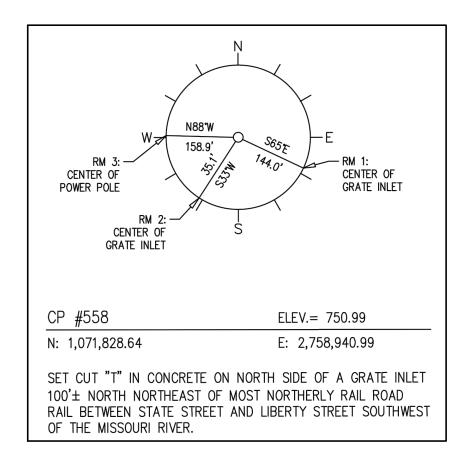
HORIZONTAL CONTROL

HORIZONTAL CONTROL PROJECT COORDINATES SHOWN HEREON ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, WEST ZONE, NAD83 2011 ADJUSTMENT, AS DETERMINED FROM GPS OBSERVATIONS USING THE MISSOURI DEPARTMENT OF TRANSPORTATION COMMISSION GLOBAL NAVIGATION SATELLITE REAL-TIME NETWORK AND TIED TO CONTROL MONUMENT CL-70 OF THE CLAY COUNTY COUNTY GEOGRAPHIC REFERENCE SYSTEM. PROJECT CONTROL IS BASED ON MISSOURI COORDINATE SYSTEM COORDINATE VALUES FOR CONTROL PT. NO. 532 AND USED AS THE BASE POINT FOR SCALING. A GRID FACTOR OF 0.9999110X WAS USED:

	PR	OJECT CONTROL		
NAME	GRID COO	COORDINATES PROJECT COORDINATES GRID FACTOR: 0.9999110		
	NORTHING (usFT)	EASTING (usFT)	NORTHING (usFT)	EASTING (usFT)
CP #532 (BASE POINT FOR SCALING)	1,072,033.00	2,758,462.37	1,072,033.00	2,758,462.37
CL-70	1,074,372.60	2,762,844.03	1,074,372.81	2,762,844.42

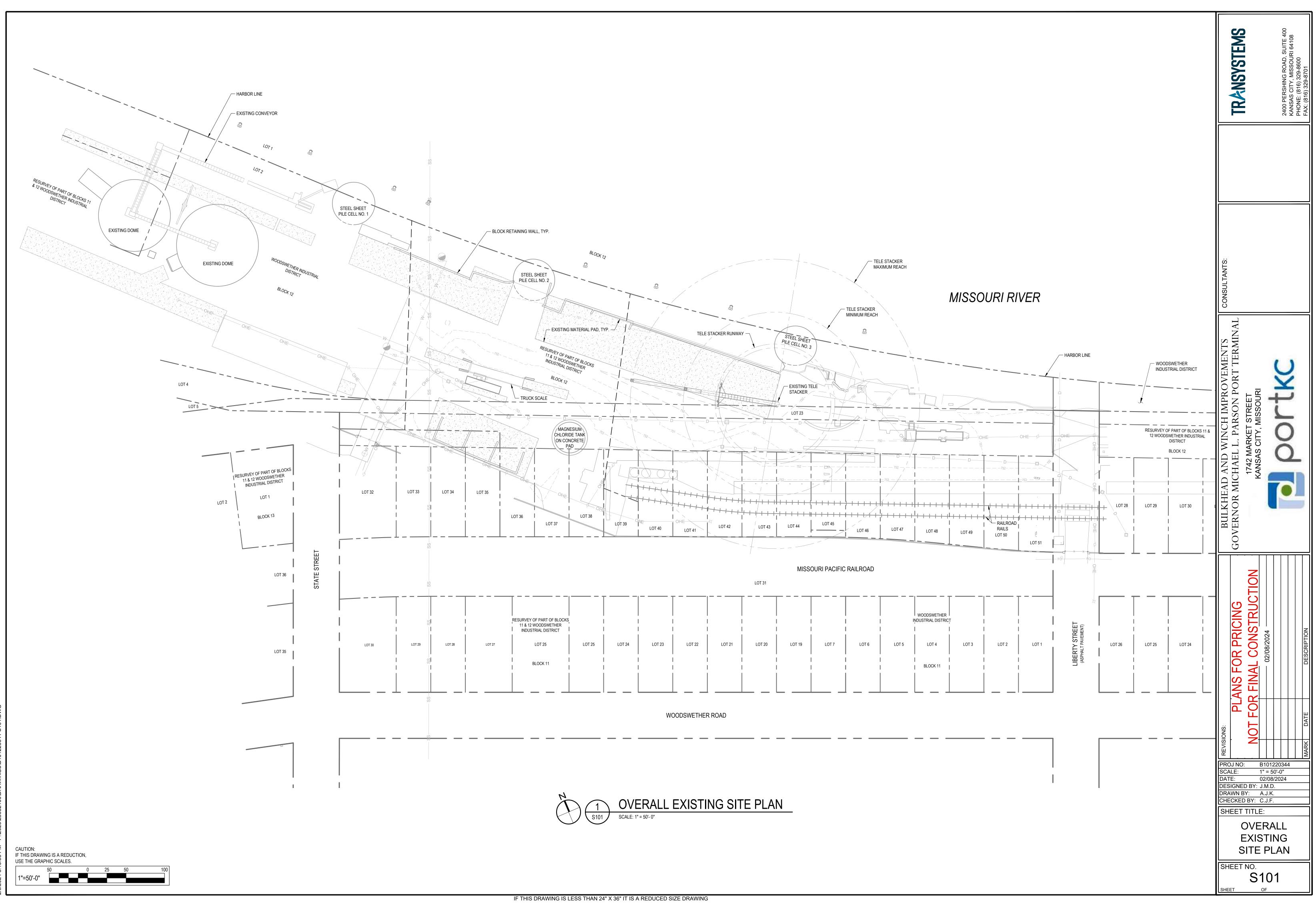
THE INFORMATION CONCERNING THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON, WHICH ARE NOT VISIBLE FROM THE SURFACE, HAVE BEEN TAKEN FROM THE RECORDS OF THE VARIOUS UTILITY COMPANIES AND FROM FIELD LOCATIONS AS MARKED BY LOCATORS REPRESENTING SAID UTILITY COMPANIES. THESE LOCATIONS ARE NOT TO BE CONSTRUED AS ACCURATE OR EXACT. WHERE MEASUREMENTS WERE NOT AVAILABLE, THE LOCATION OF THESE UNDERGROUND LINES HAVE BEEN SCALED FROM RECORD DRAWINGS. UTILITY LOCATIONS SHOULD BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION. MISSOURI ONE CALL WAS NOTIFIED OCTOBER 27, 2021, TICKET NUMBER 213001025 THE FOLLOWING COMPANIES WERE NOTIFIED: ATT DISTRIBUTION, CITY OF KANSAS CITY SEWER, CITY OF KANSAS CITY STREET, CITY OF KANSAS CITY TRAFFIC, CITY OF KANSAS CITY WATER, LEVEL 3 NOW CENTURYLINK, LINDE INC., MCI, SPIRE MO WEST, AND SPRINT NEXTEL.



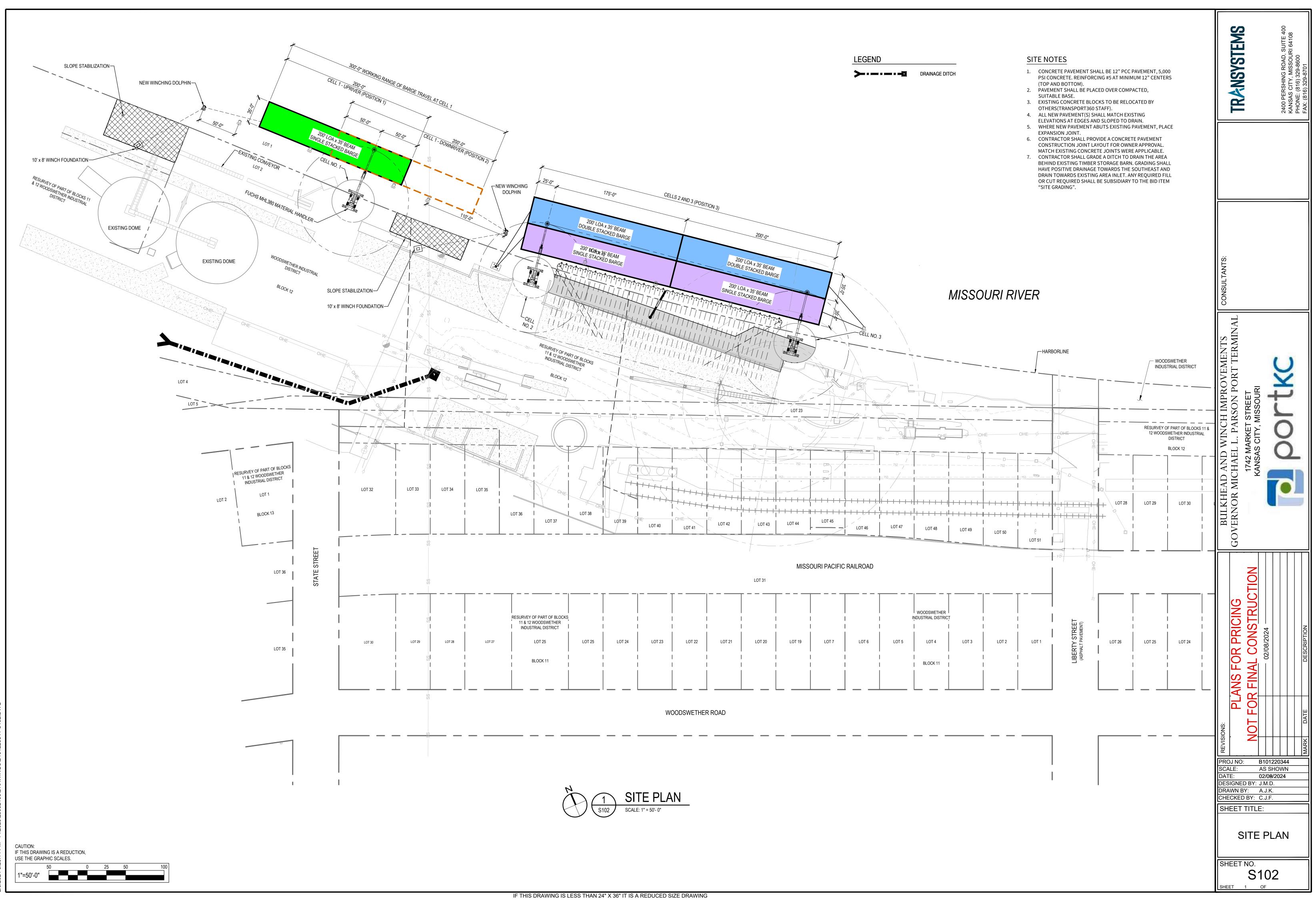


RM 3: NE CORNER CONCRETE STORM STRUCTURE RM 2: NORTH RAIL ROAD RAIL	RM 1: CENTER OF POWER POLE
CP #560	ELEV.= 751.88
N: 1,071,551.82	E: 2,759,355.16
	NORTHEAST SIDE OF A GRATE OF THE CENTERLINE OF LIBERTY /ER LEVEE WALL AND THE

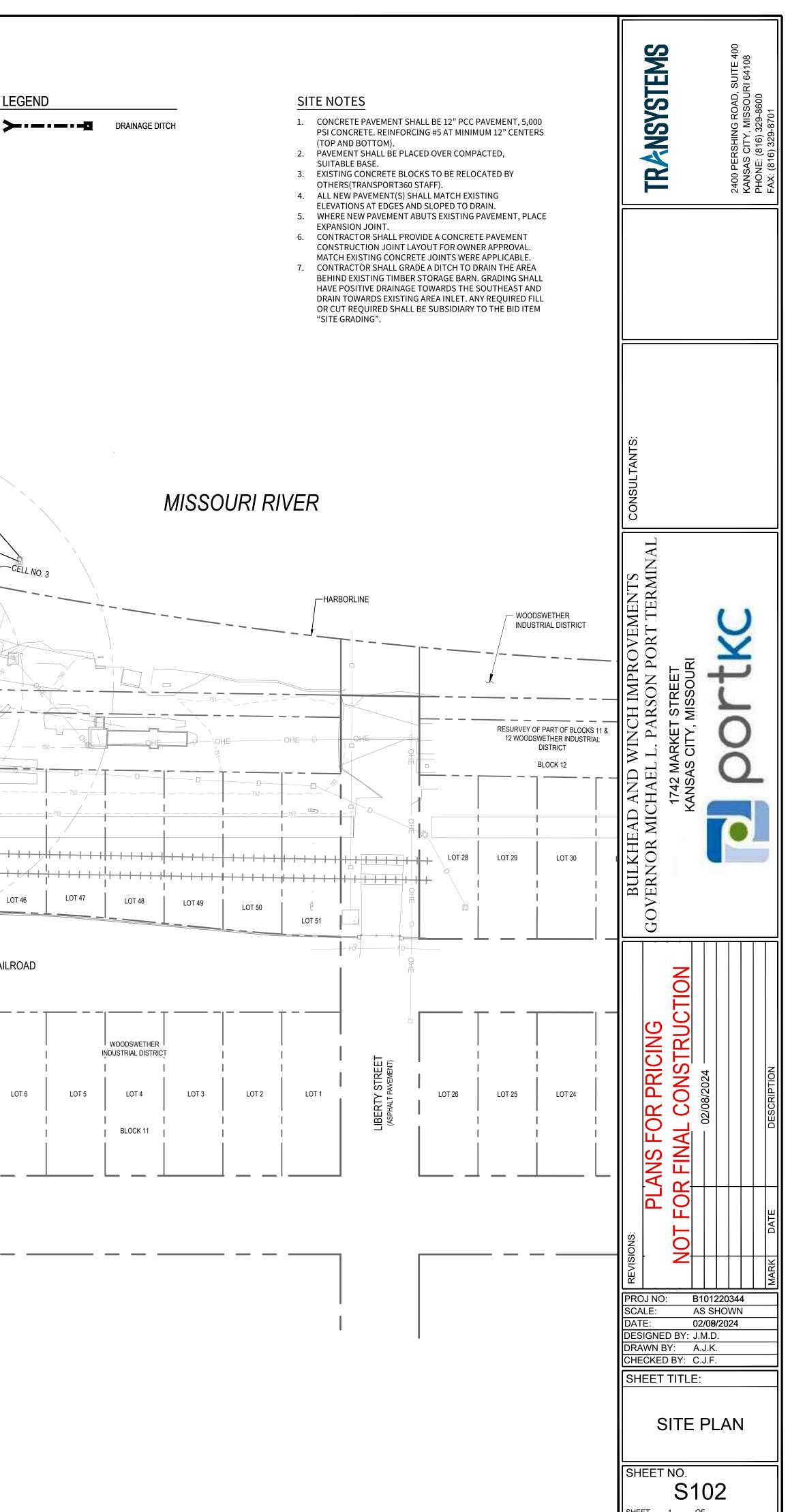
-	TRANSVSTEMS				KANSAS CITY, MISSOURI 64108	PHONE: (816) 329-8600	FAX: (816) 329-8701
CONSULTANTS:							
BULKHEAD AND WINCH IMPROVEMENTS	GOVERNOR MICHAEL L. PARSON PORT TERMINAL	1742 MARKET STREET KANSAS CITY MISSOLIRI					
REVISIONS:	PLANS FOR PRICING	NOT FOR FINAL CONSTRUCTION	02/08/2024				MARK DATE DESCRIPTION
SCA DAT DES DRA	E: IGNE WN B	D BY:	A.J.I	3/202 F. K. / N	4		
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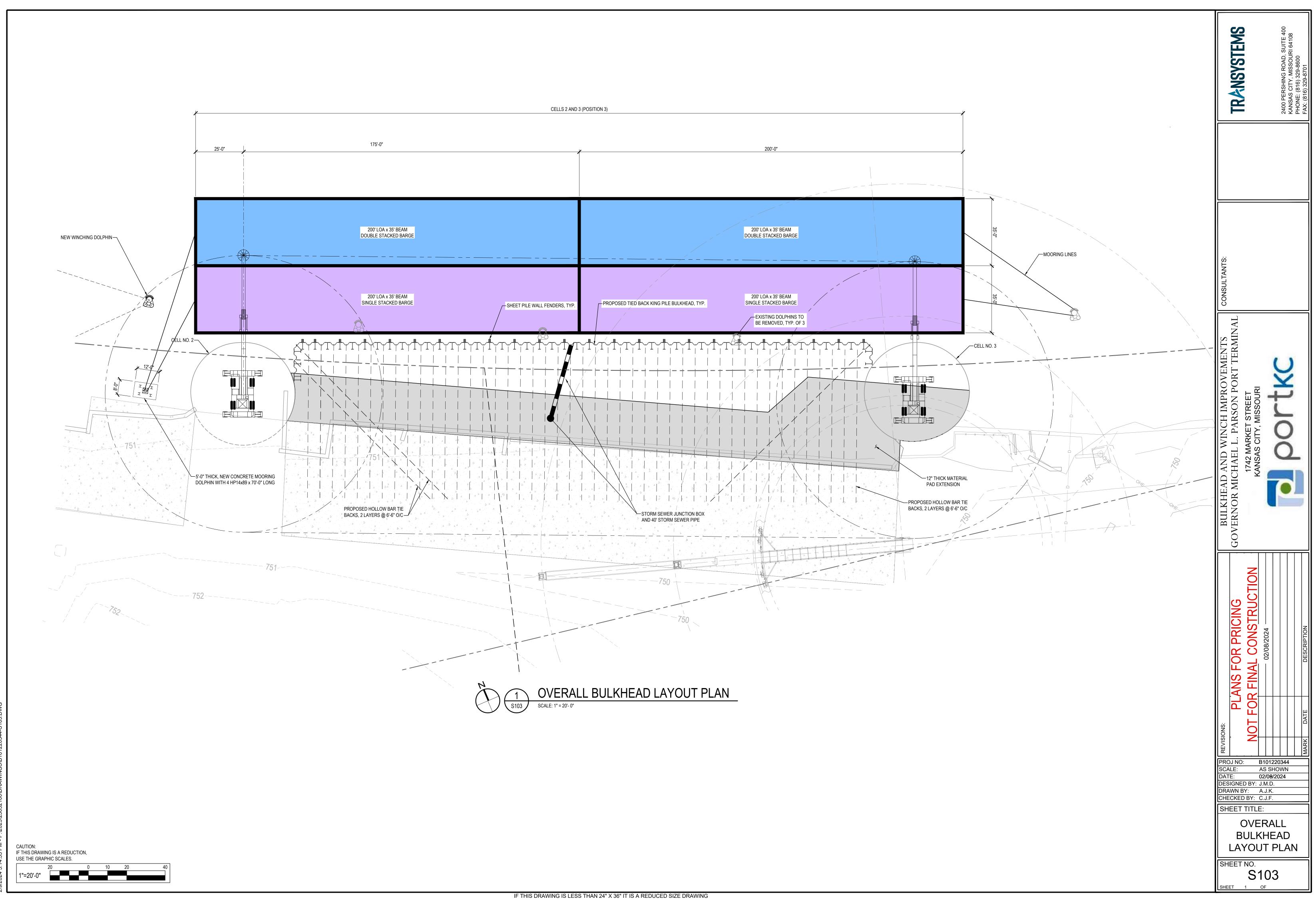
	 	RESURVEY OF PART OF BLOCKS 11 & 12 WOODSWETHER NDUSTRIAL DISTRICT	•	 			1				 	I,
LOT 28	LOT 27	LOT 25	LOT 25	LOT 24	LOT 23	LOT 22	LOT 21	LOT 20	LOT 19	LOT 7	LOT 6	LOT 5
	 	BLOCK 11		 					 		 	
						⊥						

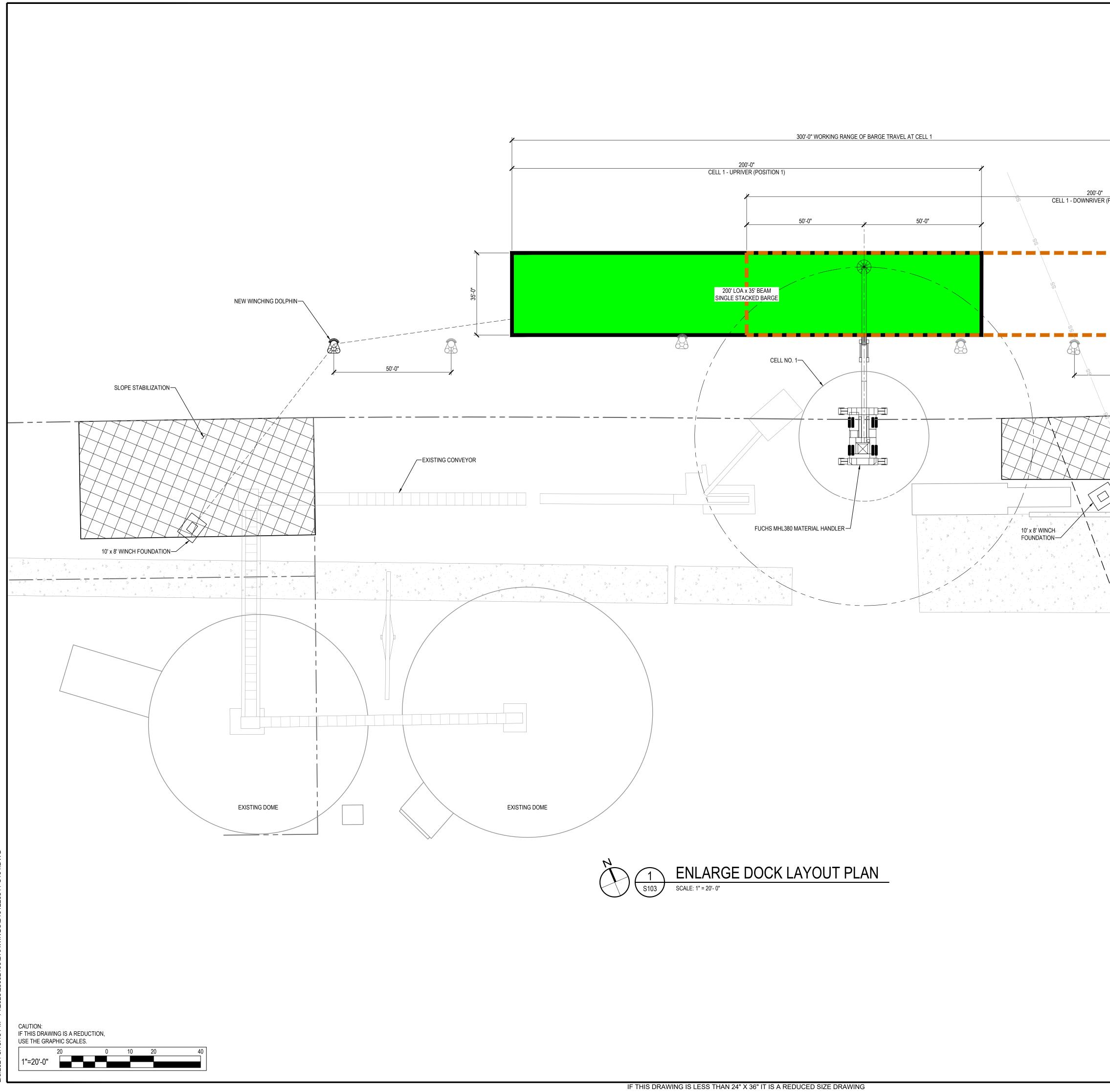




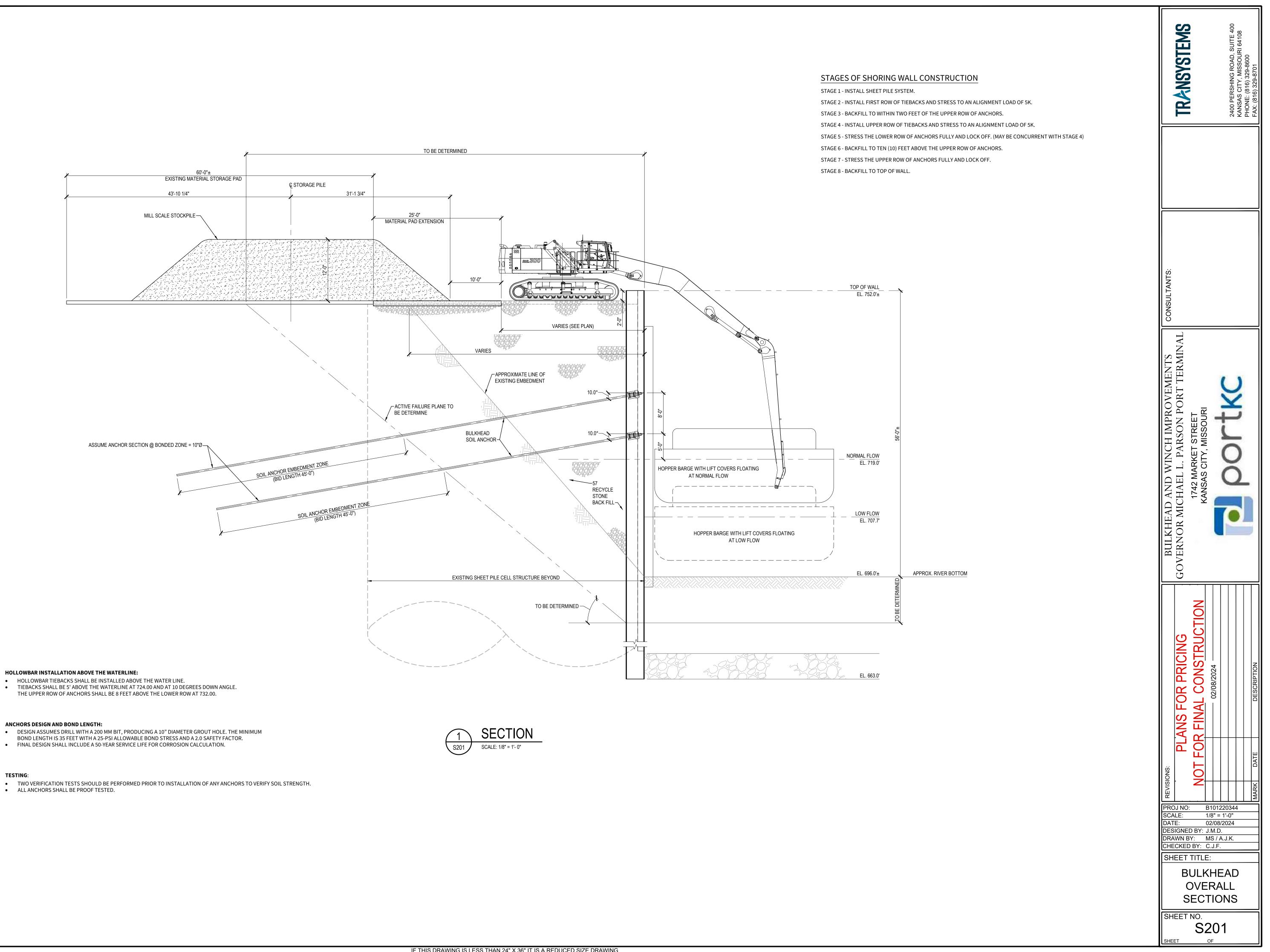


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) 	l I	RESURVEY OF PART OF BLOCK 11 & 12 WOODSWETHER INDUSTRIAL DISTRICT	S.		l I				l I				iņe I
LOT 28	LOT 27	LOT 25	LOT 25	LOT 24	LOT 23	LOT 22	LOT 21	LOT 20	LOT 19	LOT 7	LOT 6	LOT 5	
	 	l BLOCK 11			 				 		 		





TRANSYSTEMS	2400 PERSHING ROAD, SUITE 400 KANSAS CITY, MISSOURI 64108 PHONE: (816) 329-8600 FAX: (816) 329-8701
INDISIVE IND	03/00/2024 Mark 03/00/2024



HOLLOWBAR INSTALLATION ABOVE THE WATERLINE:

- HOLLOWBAR TIEBACKS SHALL BE INSTALLED ABOVE THE WATER LINE.
- TIEBACKS SHALL BE 5' ABOVE THE WATERLINE AT 724.00 AND AT 10 DEGREES DOWN ANGLE. THE UPPER ROW OF ANCHORS SHALL BE 8 FEET ABOVE THE LOWER ROW AT 732.00.

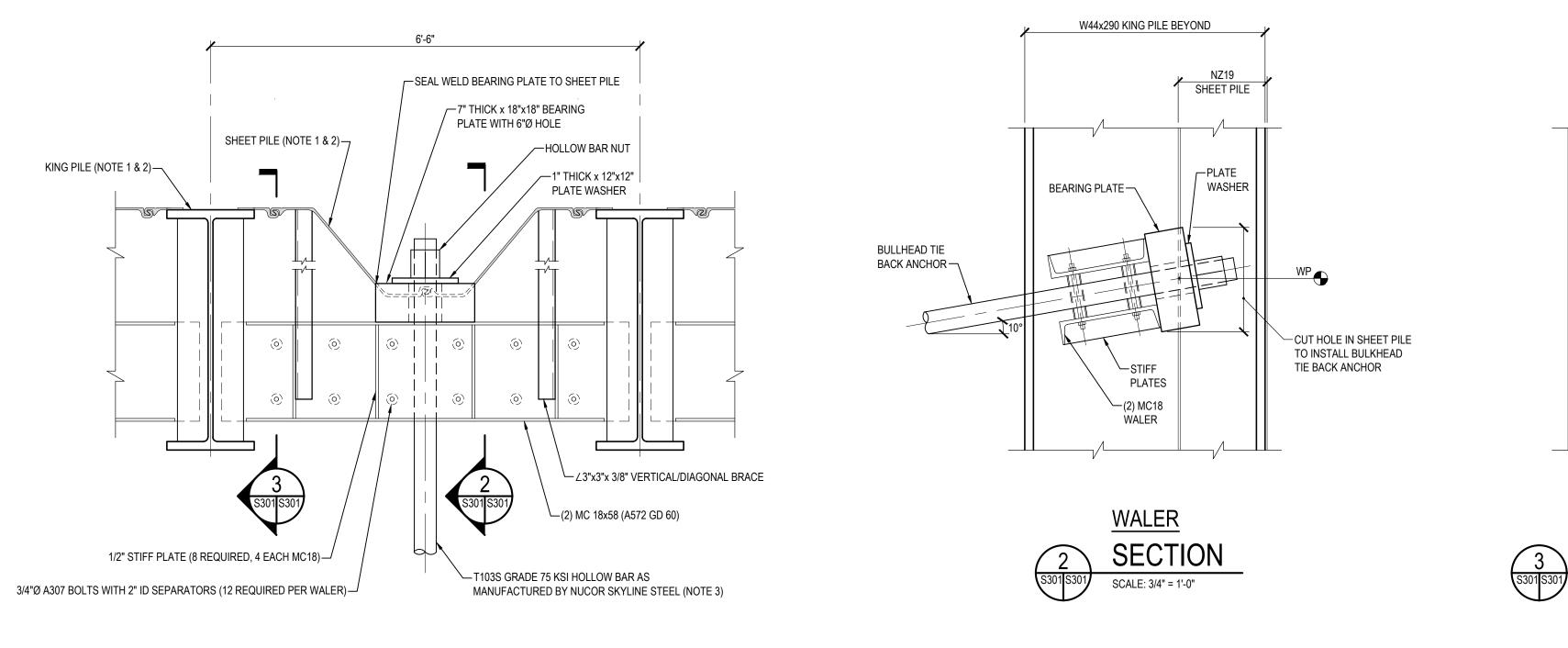
ANCHORS DESIGN AND BOND LENGTH:

- DESIGN ASSUMES DRILL WITH A 200 MM BIT, PRODUCING A 10" DIAMETER GROUT HOLE. THE MINIMUM
- FINAL DESIGN SHALL INCLUDE A 50-YEAR SERVICE LIFE FOR CORROSION CALCULATION.

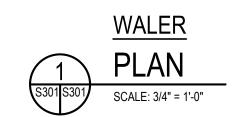
TESTING:

• TWO VERIFICATION TESTS SHOULD BE PERFORMED PRIOR TO INSTALLATION OF ANY ANCHORS TO VERIFY SOIL STRENGTH.

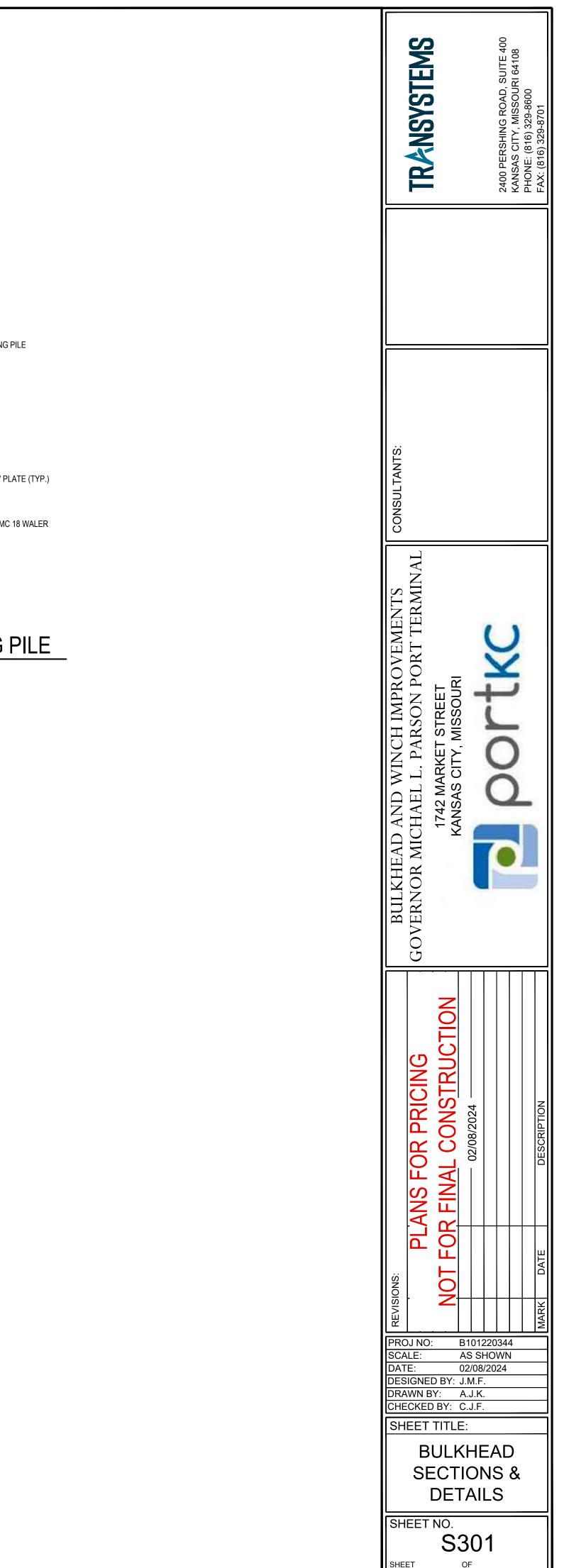


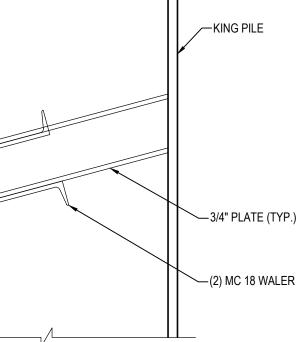


NOTE 1:	KING PILE = W44x290 SHEET PILE = NZ19
NOTE 2:	ON WATER SIDE FACE OF THE SHEET PILE AND KING PILE PROVIDE 18 MILS OF COAL TAR EPOXY COATING PROVIDE COATING DOWN TO 10'-0" BELOW MISSOURI RIVER BOTTOM
NOTE 3:	HOLLOW BAR AND HARDWARE INCLUDING PLATE WASHERS AND BEARI PLATE SHALL BE PROVIDED WITH HOT DIPPED GALVINIZED COATING.



TE WASHERS AND BEARING





WALER CONNECTION @ KING PILE SCALE: 3/4" = 1'-0"

