

REQUEST FOR QUOTATION 18-20

BIG ROCK BOAT RAMP DOCK SUPPLY

March 19th, 2018

The City of Campbell River invites quotations from qualified proponents for the supply and delivery of a floating dock system.

Work under this contract includes, but is not limited to, all supervision, construction, equipment, labour, material, permits and related items required for the fabrication and delivery of floating dock units and associated components. Also included is the requirement to provide sufficient notice to coordinate the Owner's inspection requirements.

This RFQ is available electronically by downloading it from the City's website at <u>www.campbellriver.ca/city_services/purchasing/request_for_proposal.asp</u>

This is not a tender. This is a non-binding Request For Quotations. The City reserves the absolute right to negotiate with one or more Proponents as it sees fit. Nothing in this RFQ shall obligate the City to enter into a contract with any person.

This RFQ is scheduled to close at:

RFQ Closing Time:	3:00 p.m. local time
RFQ Closing Date:	Thursday April 5 th , 2018
Delivered to:	City of Campbell River City Hall 301 St. Ann's Road 1 st Floor Reception Desk Campbell River, BC V9W 4C7 ATTN: Clinton Crook – Senior Buyer
RFQ Enquiries:	Clinton J. Crook, SCMP, CPSM, Senior Buyer Telephone: 250.286.5766, Facsimile: 250.286.5741 <u>clinton.crook@campbellriver.ca</u>



REQUEST FOR QUOTATION 18-20

BIG ROCK BOAT RAMP DOCK SUPPLY

RECEIPT CONFIRMATION FORM

As receipt of this document, <u>and</u> to directly receive any further information, addendums, etc. regarding this competition, please return this form to:

Clinton J. Crook, SCMP, CPSM, Senior Buyer Email: <u>clinton.crook@campbellriver.ca</u> Fax: 250.286.5741

Company Name:		
	Postal/Zip Code:	
Telephone No:	Fax No:	
Primary Contact:		
Title:		
Email:		

1.0 <u>Submission Requirements</u>

1.1 Quotations may be submitted via email <u>or</u> in a sealed envelope and addressed to:

City of Campbell River City Hall 301 St. Ann's Road 1st Floor Reception Desk Campbell River, BC V9W 4C7 ATTN: Clinton Crook – Senior Buyer

Ensure that the RFQ name, number, company name, and return address is labelled on the outside envelope.

- 1.2 Quotations should be received no later than **3:00 p.m., Thursday April 5th, 2018.** Quotations will NOT be opened in public.
- 1.3 Quotations received and not conforming to Item 1.2 above, may at the City's discretion, be returned (unopened) to the *Proponent*(s) without consideration.
- 1.4 Quotations submitted via email are to be sent to <u>clinton.crook@campbellriver.ca</u> **Ensure to state the RFQ name, number and "Submission" in the Subject Line.** Email submissions should be consolidated into one (1) Adobe .PDF virus free file and no larger than 10 MB's.
- 1.5 Quotations submitted to City Hall should include one (1) identical copy preferably in a bound 8½-inch x 11-inch format along with one (1) identical copy on a virus free data storage device (i.e. USB flash drive) in Adobe PDF format. No three-ring binders.
- 1.6 *Proponents* assume the entire risk when submitting a Quotation via email. The *City* will not be liable for any delay or rejection for any reason including but not limited to technological delays or issues caused by any network or email program, rejected as suspected spam, virus, malware, or email not identified in the Subject Line as a submission and being missed. The *City* will not be liable for any damages associated with Quotations not being received or missed.
- 1.7 *Proponents* may choose to provide a completed Receipt Confirmation Form to the Senior Buyer, if they wish to receive any further information, addendums, etc. regarding this Request For Quotation.
- 1.8 *Proponents* are solely responsible for any costs or expenses related to the preparation, submission, and presentation of quotations.
- 1.9 After the closing time and date, all documents received by the *City* become the property of the *City*. The successful *Proponent* will be required to assign any copyright to the *City*. The *City* will have the exclusive rights to copy, edit, and publish the material.

- 1.10 This quotation is subject to the terms and conditions of the Agreement for Internal Trade, Mash Annex 502.4 and the New West Partnership Trade Agreement between the provinces of B.C., Alberta and Saskatchewan.
- 1.11 Under no circumstances may the *Work* or any part thereof be subcontracted, transferred, or assigned to another firm, person, or company without the prior written authorization of the *City*.
- 1.12 The awarding of a contract as a result of this Request for Quotation will not permit the successful *Proponent* to advertise the relationship with the *City* without the *City*'s prior authorization.
- 1.13 If any director, officer or employee agent or other representative of a *Proponent* makes any representation or solicitation to any Councillor, officer or employee of the *City* of Campbell River with respect to the Quotation, whether before or after the submission of the Quotation, the *City* shall be entitled to reject or not accept the Quotation.
- 1.14 All submissions should include Appendix 1, as attached, to clearly show the complete company name, address, telephone number, e-mail address, and name of the primary contact person(s).

2.0 <u>Definitions</u>

- 2.1 *"City"* or *"Owner"* means The *City* of Campbell River.
- 2.2 "Supplier" means the successful "Proponent".
- 2.3 *"Proponent"* means the entity submitting a quotation.
- 2.4 *"Work"* means and includes anything and everything required to be done for the fulfilment and completion of this agreement.

3.0 Confidentiality and Freedom of Information

3.1 Your quotation should clearly identify any information that is considered to be of a confidential or proprietary nature (the "Confidential Information"). However, the *City* is subject to the provisions of the *Freedom of Information and Protection of Privacy Act.* As a result, while Section 21 of the Act does offer some protection for third party business interests, the *City* cannot guarantee that any Confidential Information provided to the *City* will remain confidential if a request for access in respect of your quotation is made under the *Freedom of Information and Protection and Protection of Privacy Act.*

4.0 Pricing & Payment

4.1 The items listed in the attached Terms of Reference are minimum features to be provided. *Proponents* may also provide separate pricing on additional elements they feel would benefit the *City* in meeting its goal.

4.2 All invoices paid as a result of this Request for Quotation will be paid as per the *City's* standard payment terms "current month's invoices will be paid net 30 days".

5.0 <u>Cancellation</u>

- 5.1 The *City* reserves the right to cancel this Request for Quotation at any time and for any reason, and will not be responsible for any loss, damage, cost or expense incurred or suffered by any *Proponent* as a result of that cancellation.
- 5.2 The *City* reserves the right to terminate the Contract, at its sole and absolute discretion, on giving 30 days' written notice to the *Supplier* of such termination and the *Supplier* will have no rights or claims against the *City* with respect to such termination. Cancellation would not, in any manner whatsoever, limit the *City*'s right to bring action against the *Supplier* for damages for breach of contract.

6.0 Accuracy of Information

6.1 The *City* makes no representation or warranty; either expressed or implied, with respect to the accuracy or completeness of any information contained or referred to in this RFQ.

7.0 <u>Responsibility of Proponent</u>

- 7.1 Each *Proponent* is responsible for informing themselves as to the contents and requirements of this RFQ. Each *Proponent* is solely responsible to ensure that they have obtained and considered all information necessary to understand the requirements of the RFQ and to prepare and submit their quotation.
- 7.2 The *City* will not be responsible for any loss, damage or expense incurred by a *Proponent* as a result of any inaccuracy or incompleteness in this RFQ, or as a result of any misunderstanding or misinterpretation of the terms of this RFQ on the part of any *Proponent*.
- 7.3 The *City* of Campbell River may at any time prior to the closing date and time issue additional information, clarifications, or modifications to the RFQ by written addenda via the *City* of Campbell River website. Information provided in the addenda shall supersede all previous information provided.
- 7.4 The *City* of Campbell River will endeavour to notify all *Proponents* of any such addenda as may be issued but it is the *Proponent's* sole responsibility to ensure they have reviewed the *City's* website for any addenda issued. By submitting a quotation, the *Proponent* is deemed to have accepted and to abide by all addenda issued.
- 7.5 If a *Proponent* is in doubt as to the true meaning of any part of this Request for Quotation, or finds omissions, discrepancies or ambiguities, a request for interpretation or correction should be submitted to the Senior Buyer, in writing.

- 7.6 Only the written Request for Quotation and any addenda issued by the Senior Buyer should be relied upon by *Proponents* when preparing and submitting their quotations.
- 7.7 By submitting a quotation, the *Proponent* represents that it has the expertise, qualifications, resources, and relevant experience to perform the *Work*.
- 7.8 *Proponents* should not rely on any dimensions or scales shown on any attached drawings. *Proponents* are responsible for all measurements and to examine the place of work prior to submission.
- 7.9 A site meeting will not be conducted. *Proponents* are responsible to examine the place of work prior to submission. By submitting a quotation, the *Proponent* represents that they have examined the place of work, or specifically elected not to.

8.0 Enquiries

- 8.1 All questions and enquiries should be submitted in writing no later than three (3) working days prior to the closing date of the RFQ.
- 8.2 Any questions regarding the submission of quotations should be directed to *Clinton J. Crook, SCMP, CPSM, Senior Buyer* at 250.286.5766 or <u>clinton.crook@campbellriver.ca</u>

9.0 <u>References</u>

- 9.1 Your quotation should identify other projects for which your company has provided similar services. Please provide references stating organization name, contact name, e-mail, phone number, and fax number to support this.
- 9.2 The *City* shall have the right, but not the obligation, to contact any references.

10.0 Indemnification

- 10.1 The successful *Supplier* hereby releases and shall indemnify and save harmless the *City*, its officers, employees, officials, agents, *Suppliers* and representatives from and against any and all claims, costs, damages, actions, causes of action, losses, demands, payments, suits and expenses, legal fees or liability arising from:
 - a. errors, omissions or negligent acts of the *Supplier*, its officers, agents, members, employees, *Suppliers* or subcontractors, or any other person for whom the *Supplier* is in law responsible in the performances of the Services;
 - b. the breach, violation or non-performance of this Agreement by the *Supplier*, its officers, agents, members, employees, *Suppliers* or

subcontractors, or any other person for whom the *Supplier* is in law responsible in the performance of the Services; or

- c. personal injury including death, property damage and loss arising out of, suffered or experienced by any person in connection with or during the provision of the Services under this Agreement, including without limitation WorkSafeBC claims and assessments.
- 10.2 The release and indemnity contained in section 10.1 shall apply except to the extent that the claims, costs, damages, actions, causes of action, losses, demands, payments, suits, expenses or legal fees or liability arise from the negligence of the *City*, its officers, employees, officials, agents, *Suppliers*, or representatives.
- 10.3 The *Supplier* is solely responsible for and shall promptly pay all WorkSafeBC premiums and assessments relating to the performance of the Services under this Agreement, whether by the *Supplier*, its officers, agents, members, employees, *Suppliers* or subcontractors, or any other person for whom the *Supplier* is in law responsible.
- 10.4 The release and indemnity contained in section 10.1 shall survive the termination of this Agreement.

11.0 Insurance

- 11.1 The *Supplier* shall provide and pay for all necessary insurances, licenses, and permits required for the performance of the *Work* and is responsible for any deductible amounts under the policies.
- 11.2 All insurances, licenses, and permits must remain valid for the term of the Work.

12.0 Declarations

- 12.1 In submitting a quotation, the *Proponent* declares that:
 - I (we) do not (or any related company) have any family, ownership, and operating relationships with the *City*, or any elected official, staff or other officials holding public office in the *City* and agree that the *City* reserves the right to reject any quotation that may be perceived to be in a conflict of interest.
 - I (we) am (are) not or have not:
 - a. an individual who has; or
 - b. an individual who was a shareholder or officer of a company that has; or
 - c. a company that has; or
 - d. a company with a shareholder or officer who has; or
 - e. a company that is, or was a shareholder of a company that is, or was a shareholder of a company that has; or

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATIONS 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY INSTRUCTIONS TO PROPONENTS

- f. a company that has a shareholder or officer who is also a shareholder or officer of another company that has;
- g. had a bid bond retained, or
- h. had all or part of a performance bond retained, or breached a contract with the *City*, or failed to complete its obligations under any prior contract with the *City* (or any other publicly funded jurisdiction or organization in British Columbia), or has been charged or convicted of an offence in respect of a *City* (or any other publicly funded jurisdiction or organization in British Columbia) contract.

13.0 <u>Timing</u>

13.1 Time is of the essence in carrying out the *Work*. The goods are to be ready for delivery to the site within seventy-five (75) working days of receipt of a Notice to Proceed. The *Supplier* must commence the services in a timely manner and carry out the services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the *Supplier* and the *City* from time to time.

14.0 <u>Regulations of Authorities Having Jurisdiction</u>

- 14.1 All *Work* provided must be in accordance with all laws and regulations pertaining to the *Work*. The laws of the Province of B.C. shall govern this quotation and any subsequent contract resulting from this quotation.
- 14.2 The *Supplier* will be required to enter into an Agreement with the *City*, refer to the attached Draft Agreement.

15.0 Acceptance

15.1 The City will be entitled to conduct such acceptance tests as it considers necessary to verify that the product and service (the *Work*) meets the Specifications. If the product and service meets the Specifications after acceptance testing, the City will accept it in writing. If the product and service does not meet the Specifications, the *City* may: reject the *Work*; or accept the *Work*. The *City* will not reject the product and service without first notifying the *Supplier* and giving the *Supplier* a reasonable opportunity to correct any failure of the equipment to meet the Specifications. If the product and service have not yet been delivered, the *City* may accept the product and service but withhold that portion of the purchase price attributable to the product and service not yet delivered.

16.0 <u>Resolution of Disputes</u>

16.1 If requested in writing by either the City or the Supplier, the City and the Supplier shall attempt to resolve any dispute between them arising out of or in connection with this agreement by first entering into structured non-binding negotiations with the assistance of a mediator on a without prejudice basis. The mediator shall be appointed by agreement of the parties. If a dispute cannot be settled within a period of thirty (30) calendar days with the mediator, if mutually agreed, the

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATIONS 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY INSTRUCTIONS TO PROPONENTS

dispute shall be referred to the arbitration of a single arbitrator, or to three arbitrators failing such an agreement, in which case each party shall appoint one arbitrator, and the first two named shall choose the third arbitrator. Any arbitration shall be conducted in accordance with the Commercial Arbitration Act (British Columbia). The award and determination shall be binding upon the parties hereto and their successors and assigns.

16.2 The cost of arbitration will be borne equally by the parties.

17.0 Evaluation Criteria Process

- 17.1 An evaluation committee made up of *City* staff will be reviewing quotation submissions. The evaluation criteria will be applied to all submissions fairly and without bias to any *Proponent* or quotation and the same criteria will be applied to all submissions.
- 17.2 No assumptions should be made that information regarding the *Proponent* or its participants, their experience, expertise and performance on non-*City* projects is known, other than the documentation and responses submitted by the *Proponent* and any relevant documentation between the *City* and the *Proponent* on previous *City* projects.
- 17.3 The *City* reserves the right to conduct pre-selection meetings with *Proponents*. *Proponents* may be requested, as part of the evaluation process, to provide a presentation, which may include a demonstration of their products.
- 17.4 The *City* reserves the right to conduct pre-selection meetings in order to correct, change or adapt the selected quotation to the wishes of the selection committee.
- 17.5 Award of any contract resulting from this RFQ may be subject to available funding, *City* of Campbell River Council approval, and other budget considerations.
- 17.6 *The City* is entitled to accept for consideration any or none of the quotations submitted and will evaluate Quotations based on the "best value" and not necessarily the lowest cost.

1. INTRODUCTION

The *City* of Campbell River invites quotations from qualified proponents for the supply and delivery of a floating dock system.

2. SCOPE OF WORK

Work under this contract includes, but is not limited to, all supervision, construction, equipment, labour, material, permits and related items required for the fabrication and delivery of floating dock units and associated components. Also included is the requirement to provide sufficient notice to coordinate the *Owner's* inspection requirements.

Substantial performance of this contract is to be achieved within 75 working days from the issuance of the Notice to Proceed.

3. DEFINITIONS

"**Contract Administrator**" means the person, firm, or corporation appointed by the *Owner* and identified by the *Owner* in writing to the *Supplier*. The Contract Administrator may be the *Owner*'s engineer, other employee, or officer, or may be an outside consultant.

"First Article Inspection" means a design verification and design history file and a formal method of providing a reported measurement for a given manufacturing process. Both the *Supplier* and *Owner* perform the First Article Inspection on the ordered product. The evaluation method consists of comparing *Supplier* and *Owner* results from measuring the properties and geometry of an initial sample item against the Contract Documents.

Part 1 General

.1 Section 05 50 00 refers to those portions of the work that are unique to the fabrication, inspection and delivery of floating dock structures. This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.

1.1 RELATED REQUIREMENTS

.1 None

1.2 REFERENCE STANDARDS

.1 As shown on Contract Drawings

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 Project Record Documents.
- .2 Canadian Welding Bureau (CWB) Certification
 - .1 Provide proof of certification for the welding shop and for all welders who will undertake the Work.
- .3 Fabrication Schedule
 - .1 Provide a detailed Fabrication Schedule within 5 Days of receiving Notice to Proceed.
 - .2 The Fabrication Schedule is to indicate the planned start and completion dates of the major activities of the Work, and shall indicate completion of the Work in compliance with the terms of the Contract Documents.
 - .3 At a minimum, the Fabrication Schedule is to show:
 - .1 Lead times for material order and delivery;
 - .2 Major work activities;
 - .3 All Owner required inspections as specified in Paragraph 1.4.2 of this Section; and
 - .4 Final delivery date to the location specified in Paragraph 3.2.1 of this Section.
 - .4 If the Supplier submits a Fabrication Schedule indicating that one or more milestone dates will not be met, submission of such Fabrication Schedule will not relieve the Supplier if its obligation to meet the Milestone Dates.
- .4 Shop Drawings:
 - .1 Sealed shop drawings are included in the Contract Documents. The Supplier is not required to submit shop drawings.

1.4 QUALITY ASSURANCE

.1 Test Reports: submit certified test reports showing compliance with specified performance characteristics and physical properties.

- .1 Certifications: submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements. for the following materials:
 - .1 Steel
 - .2 Aluminum
 - .3 HDPE Pipe
- .2 Provide 72hrs notice to Contract Administrator when the following Engineering Inspections are to be undertaken by the Owner's representative:
 - .1 First Article Inspection (welded frame only)
 - .2 Pre-Galvanizing Inspection
 - .3 Post-Galvanizing Inspection (before materials leave the galvanizing shop)
 - .4 Pre-shipping Inspection
 - .5 Post-shipping Inspection

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with this Section.
- .2 Delivery and Acceptance Requirements:
 - .1 Deliver materials to site in accordance with paragraph 3.2 TRANSPORTATION & DELIVERY.
 - .2 Items will only be accepted upon completion of all deficiencies identified as part of the post-delivery inspection by the Owner's representative.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground on dunnage. Maximum stacking allowed is 3 units tall.
 - .2 Replace defective or damaged materials with new.

1.6 PAYMENT

.1 Payment for Floats includes all work and materials necessary to fabricate and deliver the floats as specified on the Contract Drawings and within this Section. Payment will be made in accordance with Paragraph 2.0 of the Agreement.

Part 2 Products

2.1 MATERIALS

- .1 Steel sections and plates: as shown on Contract Drawings.
- .2 Steel shapes: as shown on Contract Drawings
- .3 Steel pipe: as shown on Contract Drawings.
- .4 Welding materials: as shown on Contract Drawings.
- .5 Welding electrodes: as shown on Contract Drawings.
- .6 Bolts and anchor bolts: as shown on Contract Drawings.

- .7 HDPE pipe: as shown on Contract Drawings
- .8 UHMW Polyethylene: as shown on Contract Drawings
- .9 Timber: as shown on Contract Drawings

2.2 FABRICATION

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Fit and shop assemble work, ready for installation by others.

2.3 FINISHES

.1 Galvanizing: as shown on Contract Drawings.

Part 3 Execution

3.1 ERECTION - GENERAL

.1 Not Used. Items to be installed by others under a separate contract.

3.2 TRANSPORTATION & DELIVERY

- .1 Items are to be delivered to **883 South Island Highway**, Campbell River, BC by 5 Days prior to the date of Substantial Performance.
 - .1 Pile guides, transition ramp and end float feet to be shipped loose complete with all components (bolts, pins etc), in boxes / packaging clearly identifying the number and type of components, as well as the associated float (if applicable).
 - .2 Floats to be shipped fully assembled with the exception of the items in paragraph 3.2.1.
- .2 Protect products and components from damage during transportation and delivery.
- .3 Repair damage to products and components caused by transportation and delivery.

END OF SECTION 05 50 00

1.0 GENERAL

1.1 Categories of Submittals

- .1 General requirements and detailed Specifications require various submissions to demonstrate that materials, equipment, methods, and work comply with the provisions and intent of the Contract Documents. Submittals fall into two general categories:
 - a) Submittals for Review.
 - b) Submittals for Information Only.
- .2 Provide submittals in accordance with this section and as specified in the various technical sections contained throughout the Specifications and Supplemental Specifications.
- .3 The *CONTRACT ADMINISTRATOR* may require additional submittals from the SUPPLIER when, in the opinion of the *CONTRACT ADMINISTRATOR*, such additional submittals are warranted.

1.2 Administration

- .1 Submittals covered by these requirements include manufacturers' information and data sheets, descriptive data, certificates, product data, shop drawings, test procedures, test results, samples, requests for substitutions, all mechanical, electrical and electronic equipment and systems, fabricated items, piping and miscellaneous work-related submittals.
- .2 Adjustments made on shop drawings or other submittals by the *CONTRACT ADMINISTRATOR* are not intended to change the Contract Price. If adjustments affect the value of work, state such in writing to the *CONTRACT ADMINISTRATOR* prior to proceeding with the work.
- .3 Provide to *CONTRACT ADMINISTRATOR* for review the submittals specified. Submit all information promptly and in an orderly sequence so as to not cause delay in the Work. Failure to submit in ample time is not considered sufficient reason for an extension of Contract time and no claim for extension by reason of such default will be allowed.
- .4 Include the projected dates for Submissions of Submittals for Review in the Construction Schedule specified in Supplementary Specification 01 31 00
- .5 Do not proceed with work affected by any submittal until review is complete. Normally, submittals for review and comment will be returned to the SUPPLIER within 15 days, 30 days for substitution, exclusive of any time awaiting clarification or further information; however, the time for returns will necessarily vary and may exceed 15 days depending upon the complexity of the submittal, the number of submittals, and the express needs of the SUPPLIER.
- .6 Review submittals prior to submission to the *CONTRACT ADMINISTRATOR*. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with the requirements of the Work and the Contract Documents. Submittals not stamped,

signed, dated and identified by the SUPPLIER will be returned without being examined and will be considered rejected.

- .7 Clearly edit submittal documents to indicate only those items, models, or series of equipment, which are being submitted for review. Cross out or otherwise obliterate all extraneous materials.
- .8 Ensure that there is no conflict with other submittals.
- .9 Coordinate submittals among subcontractors and suppliers.
- .10 Coordinate submittals with the Work so that work will not be delayed and schedule different categories of submittals, so that one will not be delayed for lack of coordination with another.
- .11 The SUPPLIER is responsible for the accuracy and completeness of information submitted. Notify CONTRACT ADMINISTRATOR in writing of materials, equipment or methods of work which deviate from the Contract Documents. Notification in writing, to accompany submittal transmittal and noted under deviations.
- .12 The SUPPLIER's responsibility for errors, omissions and deviations in submission is not relieved by the CONTRACT ADMINISTRATOR's review of submittals.
- .13 Keep one reviewed copy of each submission on site.
- .14 Detail all shop drawings and data sheets using the metric system. Prepare to a drafting standard equivalent to the Contract Drawings.
- .15 Shop drawings and data sheets indicating modified design requirements or design requirements not included in the Contract Documents require the seal of a qualified Professional Engineer, registered in the Province of British Columbia.

1.3 **Transmittal Procedure**

- .1 Accompany all submittals with transmittal form 01 33 00-A attached.
- .2 Use a separate form for each specific item, class of material, equipment, and items specified in separate, discrete sections, for which the submittal is required. Identify Contract Document, equipment numbers, equipment descriptors, drawing numbers, and Specification Sections for each submittal and item in each submittal.
- .3 Identify submittal documents common to more than one piece of equipment with all the appropriate equipment numbers.
- .4 Use a single form for submittals for various items when the items taken together constitute a manufacturer's package or are so functionally related that expediency indicates checking or review of the group or package as a whole.
- .5 Note a unique number, sequentially assigned, on the transmittal form accompanying each item submitted. Submittals will be classified according to categories agreed to by the SUPPLIER and CONTRACT ADMINISTRATOR. Use the following format by category for submittal numbers: "XXX", where "XXX" is the sequential number assigned by the SUPPLIER. Resubmittals will have the following format: "XXX-Y", where "XXX" is the originally assigned submittal number and "Y" is a sequential letter assigned for resubmittals, i.e., A, B, or C being the 1st, 2nd, and 3rd resubmittals, respectively. Submittal 25B, for example, is the second resubmittal of submittal 25.

1.4 Submittals for Review

- .1 All submittals, except where specified to be submitted for information only, to be submitted by the SUPPLIER to the *CONTRACT ADMINISTRATOR* for review. Provide submittals for review for all equipment and material substitutions, alternatives or deviations from that specified.
- .2 Submittals which do not have all the information required to be submitted, including notation of all deviations from the Contract requirements, are not acceptable and will be returned without review.
- .3 Review by the *CONTRACT ADMINISTRATOR* is for the sole purpose of ascertaining conformance with the general design concept in accordance with the Specifications. This review does not mean that the *CONTRACT ADMINISTRATOR* approves the detail design inherent in the submittals, shop drawings and data sheets, responsibility for which remains with the SUPPLIER, and such review does not relieve the SUPPLIER of responsibility for errors or omissions in the shop drawings and data sheets or of responsibility for meeting all requirements of the Contract Documents. The SUPPLIER is responsible for dimensions to be confirmed and correlated at the job-site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for coordination of the work of all sub-trades.
- .4 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of the section under which the adjacent items will be supplied and installed. Indicate cross references to Contract Drawings and Specifications.
- .5 Submit 3 copies of submittals, except where other quantities are specified, including shop drawings for each requirement requested in Specification sections and as the *CONTRACT ADMINISTRATOR* may reasonably request. Electronic submissions are acceptable in a PDF format as long as they are accompanied by the required transmittal form.
- .6 Submittals for review will be returned to the SUPPLIER with one of the four following notations:
 - a) If the review indicates that the material, or equipment complies with the Contract Documents, submittal copies will be marked "Reviewed". In this event, the SUPPLIER may begin to implement the work method or incorporate the material or equipment covered by the submittal.
 - b) If the review indicates limited modifications are required, copies will be marked "Reviewed as Modified". The SUPPLIER may begin implementing the work method or incorporating the material and equipment covered by the submittal in accordance with the noted corrections. Where submittal information will be incorporated in operation and maintenance data, provide a corrected copy.

- c) If the review reveals that the submittal is insufficient or contains incorrect data, copies will be marked "Revise and Resubmit". Do not undertake work covered by this submittal until it has been revised, resubmitted and returned marked either "Reviewed" or "Reviewed as Modified".
- d) If the review indicates that the material, equipment, or work method does not comply with the Contract Documents, copies of the submittal will be marked "Rejected See Remarks". Submittals with deviations which have not been identified clearly may be rejected. Do not undertake the work covered by such submittals until a new submittal is made and returned marked either "Reviewed" or "Reviewed as Modified".
- .7 After submittals are stamped "Reviewed" or "Reviewed as Modified", no further revisions are permitted unless re-submitted to the *CONTRACT ADMINISTRATOR* for further review.
- .8 If upon review by the *CONTRACT ADMINISTRATOR*, no errors or omissions are discovered or if only minor corrections are made, 1 copy will be returned and fabrication and installation of work may proceed. If shop drawings and data sheets are rejected, noted copy and 1 unmarked copy will be returned and resubmission of corrected shop drawings and data sheets, through the same procedure indicated above, to be performed before fabrication and installation of work may proceed.
- .9 The *OWNER* may deduct, from payments due to SUPPLIER, costs of additional Engineering reviews incurred if shop drawings and data sheets are not corrected after one (1) review by *CONTRACT ADMINISTRATOR*.

1.5 Submittals for Information Only

- .1 Where specified, furnish submittals to the *CONTRACT ADMINISTRATOR* for information only at least 30 days prior to commencement of the work covered by the submittal. Submittals for information only will be used by the *CONTRACT ADMINISTRATOR* for general information and filed without comment. The *CONTRACT ADMINISTRATOR* for retains the right to return submittals for information only if the submittal does not comply with the Contract Documents and general design criteria.
- .2 Submittals for information only are not subject to review procedures. They are to be provided as part of the Work under the Contract and their acceptability determined under normal inspection procedures.
- .3 Submit 3 copies of information only submittals including product data, manufacturer's standard data sheets or brochures for requirements requested in Specification Sections and as the *CONTRACT ADMINISTRATOR* may reasonably request where shop drawings will not be prepared due to standardized manufacture of product.
- .4 Where specified submit engineering calculations sealed by a qualified Professional Engineer, for information only.

1.6 Request for Substitution

- .1 Make requests for substitution by written application accompanied with sufficient information to permit the *CONTRACT ADMINISTRATOR* to identify the nature and scope of the request.
- .2 Follow submittal procedures and submit 3 copies of all information for each substitution request.
- .3 Upon receipt of written application for substitution from the SUPPLIER, including the specific information specified, the *CONTRACT ADMINISTRATOR* will estimate the cost and time requirement of evaluating the request and present the estimates to the SUPPLIER. The SUPPLIER is advised that the estimates are based upon the best information available to the *CONTRACT ADMINISTRATOR* at the time; however, the actual cost, based on time and expense, will be documented and applied in the final analysis of the substitution request.
- .4 If the SUPPLIER wishes the *CONTRACT ADMINISTRATOR* to continue the review of the request, advise the *CONTRACT ADMINISTRATOR* in writing and submit sufficient additional information as may be requested by the *CONTRACT ADMINISTRATOR*. No evaluation will take place until such time as the SUPPLIER has agreed to the estimate in writing and has authorized the *CONTRACT ADMINISTRATOR* to deduct the cost of the evaluation from monthly progress payments due the SUPPLIER.

2.0 PRODUCTS

.1 Not Used

3.0 EXECUTION

.1 Not Used

01 33 00-A SUBMITTAL TRANSMITTAL FORM:

Submittal Description:	Submittal No:1			
	Spec Section:			
TO: ATTN:	Routing Sent Received			
OWNER:	Supplier/CM			
PROJECT:	CM/DECS			
	DECS/CM			
SUPPLIER:	CM/Supplier			
We are sending you Attached	□ Submittals for Review (RVU)			

We are sending you

Attached Under separate cover via

□ Submittals for information only (INF) □ Substitution (SUB)

□ Operation & Maintenance Information (O&M)

Remarks: _____

Item	Copies	Date	Section No.	Description	Review a action	Reviewer initials	Review comments attached

a Attach additional sheets if necessary. REV= Reviewed; RAM= Reviewed as Modified; RAR= Revise and Resubmit; REJ= Rejected

Supplier

Certify either A or B:

- □ A.We have verified that the material or equipment contained in this submittal meets all the requirements, including coordination with all related work, specified (no exceptions).
- □ B.We have verified that the material or equipment contained in this submittal meets all the requirements specified except for the attached deviations.

No.

Deviation

Certified by:

Supplier's Signature

Page 6 of 8

Page 7 of 8

01 33 00-H Spare Parts and Special Tools List (Form 1 of 2)

Specification Section	Equipment Description	Equipment Name	Manufacturer	Model #	Quantity	Spare Parts Required	Box Tag Number

Note: Although presented on two 215 mm x 280 mm pages, Form 01 33 00-H should be completed on a 280 mm x 432 mm page.

Page 8 of 8

Manufacturers Part Number	Special Storage Requirements	Supplier Scheduled Delivery Date	ABR Acceptance Date/Name	District Receipt Date/Name

01 33 00-H Spare Parts and Special Tools List (Form 2 of 2)

Note: Although presented on two 215 mm x 280 mm pages, Form 01 22 00-H should be completed on a 280 mm x 432 mm page.

END OF SECTION 01 33 00

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATION 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY OFFER FORM

APPENDIX 1 OFFER FORM

The *Proponent* offers to perform all of the *Work* in accordance with the terms and conditions of this RFQ and accept payment at the rates as specified in this Offer Form. The *Proponent* declares that all information, which is provided or will be provided to the *City* of Campbell River is true and understands and agrees to be bound by the contract documents.

Offer prices shall be in Canadian dollars (CAD) and shall include all duties and taxes, including provincial sales taxes, with the exception of GST which shall be shown separately.

Description	<u>Qty</u>	<u>Unit</u>	<u>Price</u>
Boat Ramp Dock Supply	1	Lump Sum	\$
		Sub-Total:	\$
		GST:	\$
		Grand Total:	\$

The Proponent is to include any proposed terms of payment in the section listed below. These proposed terms of payment should be valued and sensibly aligned with the fabrication, delivery and installation steps of this Supply Agreement and are subject to negotiation with the Owner.

1.	
2.	
3.	
4.	
5.	

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATION 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY OFFER FORM

Date:	
Company Name:	
Address:	
City:	
Province/State:	Postal/Zip Code:
Telephone No.:	Fax No:
Primary Contact:	
Title:	
Email:	
Signature:	

APPENDIX 2

COMPARABLE WORK EXPERIENCE

OWNER/ CONTRACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATION 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY OFFER FORM

APPENDIX 3

CURRENT PROJECTS UNDERWAY

PROJECT	OWNER/ CONTRACT NAME	PHONE NUMBER	WORK DESCRIPTION	VALUE (\$)	% COMPLETE

CITY OF CAMPBELL RIVER REQUEST FOR QUOTATION 18-20 BIG ROCK BOAT RAMP DOCK SUPPLY DRAFT AGREEMENT

THIS AGREEMENT made this day of,				<u>,</u> 2018
	REFERENCE:	RFQ 18-20		
	CONTRACT:	BIG ROCK BOAT RAM	P DOCK SUPPLY	
BETW	/EEN:			
301 S	of Campbell River t. Ann's Road bell River, B.C. 4C7		(the "City")	
			(the "Supplier")	
A.	<i>,</i>	ne professional services of t the services set out in this	he Supplier and desires to enga Agreement.	age the

B. The Supplier has agreed to perform the services in accordance with the terms and conditions of this Agreement.

In consideration of the terms, covenants and conditions of this Agreement, the City and the Supplier agree as follows:

1.0 SUPPLIER'S SERVICES TO THE CITY

- 1.1 The Supplier must provide and is responsible for the Services outlined in a work plan submitted to the City by the Supplier in response to the Request for Quotation (the "Quotation") attached hereto as Schedule "A" and forming an integral part of this Agreement in the amount of \$XXXXXX, excluding GST.
- 1.2 If there is any inconsistency or conflict between the provisions of the contract documents then the contract documents shall govern and take precedence in the following order with the Agreement taking precedence over all other contract documents:
 - a. The Agreement between the City and Supplier;
 - b. The Supplier's submitted quotation and pricing;
 - c. The City's Request For Quotation and all addenda's;
 - d. All other contract documents.
- 1.3 The Supplier may engage professional sub-contractors for the performance of specific tasks forming part of the Services, as approved in writing by the City. The sub-contractors may not be replaced without the prior written consent of the City.

- 1.4 The Supplier must administer, coordinate, and manage all Services of sub-contractors, and is responsible for all work performed by the sub-contractors in relation to the Services and will pay all fees and disbursements of all sub-contractors.
- 1.5 The Supplier must perform the Services:
 - a) with that degree of care, skill and diligence normally applied in the performance of services of a similar nature; and
 - b) in accordance with current professional practices with all applicable trade associations and organizations; and
 - c) in conformance with the latest design standards and codes applicable at the time of design.
- 1.6 The Supplier must furnish all personnel required to perform the services, and all personnel must be competent and qualified to perform the Services.
- 1.7 Where specific personnel have been proposed by the Supplier for the performance of the Services, and have been accepted by the City, the personnel may not be replaced without the prior written consent of the City.
- 1.8 The Supplier must commence the services in a timely manner and work in a continuous manner until all works are completed and carry out the Services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the Supplier and the City from time to time.

2.0 BASIS OF PAYMENT TO THE SUPPLIER

- 2.1 In consideration of the Services performed by the Supplier to the satisfaction of the City, the City will pay the Supplier the fees and reimbursable expenses as prescribed in this agreement.
- 2.2 Payment to the Supplier will be mutually agreed and as specified on the submitted Appendix 1 Offer Form and shall not exceed the budget without prior written authorization from the City.
- 2.3 The City may holdback **ten percent (10%)** of the contract value to be paid to the Supplier upon the City's acceptance of the satisfactory completion of the Work and contract requirements.
- 2.4 The limit on the fees to be paid by the City to the Supplier does not diminish the duties and obligations of the Supplier to provide the Services.
- 2.5 All other expenses not listed above are considered to be included in the Supplier's fees.
- 2.6 The Supplier shall submit invoices to the City representative or delegate as per the Payment Terms in Appendix 1.

2.7 If the City approves the amount of an invoice, the City will cause the invoice to be paid on or before the 15th day of the month following receipt and approval of the invoice.

3.0 CHANGES TO SCOPE OF SERVICES

- 3.1 The City may at any time vary the scope of work to be provided by the Supplier.
- 3.2 If the Supplier considers that any request or instruction from the City constitutes a change in the scope of the Services, the Supplier must advise the City within ten (10) days in writing.
- 3.3 Without written advice within the time period specified, the City is not obligated to make any payments for additional fees to the Supplier.

4.0 **INDEMNIFICATION**

- 4.1 The successful Supplier hereby releases and shall indemnify and save harmless the City, its officers, employees, officials, agents, contractors and representatives from and against any and all claims, costs, damages, actions, causes of action, losses, demands, payments, suits and expenses, legal fees or liability arising from:
 - a. errors, omissions or negligent acts of the Supplier, its officers, agents, members, employees, contractors or subcontractors, or any other person for whom the Supplier is in law responsible in the performances of the Services;
 - the breach, violation or non-performance of this Agreement by the Supplier, its officers, agents, members, employees, contractors or subcontractors, or any other person for whom the Supplier is in law responsible in the performance of the Services; or
 - c. personal injury including death, property damage and loss arising out of, suffered or experienced by any person in connection with or during the provision of the Services under this Agreement, including without limitation WorkSafeBC claims and assessments.
- 4.2 The release and indemnity contained in the previous section shall apply except to the extent that the claims, costs, damages, actions, causes of action, losses, demands, payments, suits, expenses or legal fees or liability arise from the negligence of the City, its officers, employees, officials, agents, contractors, or representatives.
- 4.3 The Supplier is solely responsible for and shall promptly pay all WorkSafeBC premiums and assessments relating to the performance of the Services under this Agreement, whether by the Supplier, its officers, agents, members, employees, contractors or subcontractors, or any other person for whom the Supplier is in law responsible.
- 4.4 The release and indemnity contained in this section shall survive the termination of this Agreement.

5.0 INSURANCE & DOCUMENTATION

- 5.1 The Supplier shall provide and pay for all necessary insurances, licenses, and permits required for the performance of the Work and is responsible for any deductible amounts under the policies.
- 5.2 All insurances, licenses, and permits must remain valid for the term of the Work.

6.0 <u>CITY APPROVALS</u>

6.1 No reviews, approvals or inspections carried out or information supplied by the City or its employees derogate from the duties and obligations of the Supplier, with respect to the services, and all responsibility for the services is to the Supplier.

7.0 <u>TERMINATION</u>

- 7.1 At any time, in its sole judgment, the City may terminate the services of the Supplier in whole or part by giving 30 days written notice to the Supplier.
- 7.2 If termination is not for cause, the Supplier shall be paid at the rate prescribed for all services properly performed to the date of the delivery of the notice according to the terms of this Agreement, plus necessary and reasonable wind up costs incurred, if any, in closing out the Services or the part terminated.
- 7.3 At any time, in its sole judgment, the City may instruct the Supplier to terminate the services of any sub-contractor appointed a role under the Services Agreement, in whole or part by giving 30 days written notice to the Supplier. In this case, the Supplier will implement a suitable replacement, to the approval of the Owner, in the same 30 days.

8.0 CONFIDENTIALITY

- 8.1 The Supplier acknowledges that in performing the Services required under this Agreement, it will acquire information about certain matters which is confidential to the City, and the information is the exclusive property of the City.
- 8.2 The Supplier undertakes to treat as confidential all information received by reason of its position as Supplier, and agrees not to disclose it to any third party either during performance of the Services or after the Services have been rendered under this Agreement.

9.0 <u>TIMING</u>

9.1 Time is of the essence in carrying out the Work. The goods are to be delivered to the site within 75 working days of receipts of a Notice to Proceed. The Supplier must commence the services in a timely manner and carry out the services in accordance with the completion dates set out in the work plan, or as mutually amended in writing by the Supplier and the City from time to time.

10.0 CONSTRUCTION ASSOCIATION POLICIES

- 10.1 The City is not a member of the Public Construction Council of British Columbia, the British Columbia Construction Association or any other construction association.
- 10.2 The City does not adopt or agree to be bound by "The Procedures and Guidelines Recommended For Use on Publicly Funded Construction Projects" produced by the Public Construction Council of British Columbia, September 1989 or any other procedure/guideline recommended, adopted or produced by any construction association in the competition process and award of the Contract of this project.

11.0 REGULATIONS OF AUTHORITIES HAVING JURISDICTION

11.1 All Work provided must be in accordance with all laws and regulations pertaining to the Work. The laws of the Province of B.C. shall govern this quotation and any subsequent contract resulting from this quotation.

12.0 ACCEPTANCE

12.1 The City will be entitled to conduct such acceptance tests as it considers necessary to verify that the product and service (the Work) meets the Specifications. If the product and service meets the Specifications after acceptance testing, the City will accept it in writing. If the product and service does not meet the specifications the City may: reject the Work; or accept the Work. The City will not reject the product and service without first notifying the Supplier and giving the Supplier a reasonable opportunity to correct any failure of the equipment to meet the Specifications. If the product and service meets the Specifications except that some items of product and service have not yet been delivered, the City may accept the product and service but withhold that portion of the purchase price attributable to the product and service not yet delivered.

13.0 RESOLUTION OF DISPUTES

- 13.1 This Agreement shall be governed by the laws of the Province of British Columbia.
- 13.2 If requested in writing by either the City or the Supplier, the City and the Supplier shall attempt to resolve any dispute between them arising out of or in connection with this Agreement by first entering into structured non-binding negotiations with the assistance of a mediator on a without prejudice basis. The mediator shall be appointed by agreement of the parties. If a dispute cannot be settled within a period of thirty (30) calendar days with the mediator, if mutually agreed, the dispute shall be referred to the arbitration of a single arbitrator, or to three arbitrators failing such an agreement, in which case each party shall appoint one arbitrator, and the first two named shall choose the third arbitrator. Any arbitration shall be conducted in accordance with the <u>Commercial Arbitration Act (British Columbia)</u>. The award and determination shall be binding upon the parties hereto and their successors and assigns.
- 13.3 The cost of arbitration will be borne equally by the parties.

14.0 NOTICES

- 14.1 Communications among the *Owner* and the *Consultant*, including all written notices required by the agreement, may be delivered by hand, e-mail, fax, or by pre-paid registered mail to the addresses as set out below:
- The Owner: City of Campbell River 301 St. Ann's Road Campbell River, BC V9W 4C7 Attention: Jason Hartley, P.Eng., Capital Works Manager E-mail: jason.hartley@campbellriver.ca

The Supplier: TBD

The City of Campbell River

AUTHORIZED SIGNATORY

WITNESS

Supplier

AUTHORIZED SIGNATORY

WITNESS

SCHEDULE 2

List of Contract Drawings

Complete listing of all drawings, plans and sketches which are to form a part of this Contract, other than Standard Detail Drawings and Supplementary Standard Detail Drawings

TITLE	DRAWING NO.	SHEET NO.	DATE	REVISION DATE	REVISION
As listed per sheet	395-300	1-11	2/03/2018		А
As listed per sheet	395-400	1-26	2/03/2018		А
As listed per sheet	395-1000	1-4	2/03/2018		А

GENERAL NOTES AND SPECIFICATIONS

8

D

С

B

A

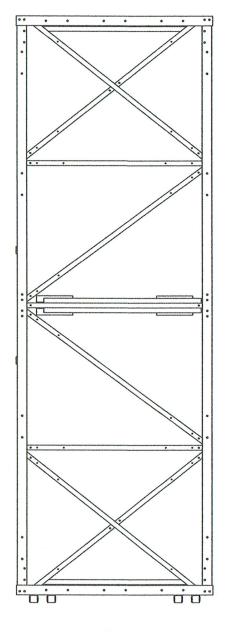
8

- 1. ALL STEEL PLATE 44W/300W AND STEEL SHAPES 50W/350W UNLESS NOTED (CSA G40.20/G40.21).
- 2. HOT DIP GALVANIZED (ASTM A123).
- 3. REFER TO AMERICAN GALVANIZERS ASSOCIATION "DESIGN GUIDE" FOR VENTING HOLES LOCATION AND SIZE
- 4. WELDING SHALL ONLY BE UNDERTAKEN BY A COMPANY CERTIFIED BY THE CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA 47.1 (LATEST EDITION) IN DIVISION 1 OR 2. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AND MEET THE QUALITY REQUIREMENTS OF CSA W59 (LATEST EDITION). ALL WELDERS EMPLOYED BY THE COMPANY SHALL HOLD VALID QUALIFICATIONS ISSUED BY THE CWB. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH WELDING PROCEDURES APPROVED BY THE CWB

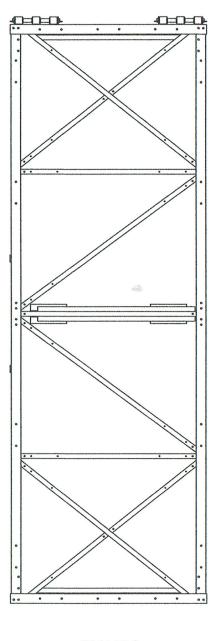
7

6

5. FRAMES ARE IDENTICAL EXCEPT FOR HINGE CONFIGURATIONS



5



3

4

FRAME 1 SCALE 1:40

FRAME 2 SCALE 1:40

3

							CLIENT	
								CITY OF CAMPBELL RIVER
A	ISSUED FOR TEN	DER		2/03/2	018	JK		
REV.	DESCRIPTION		[E	APPROVED		
	REVISIONS							
	DIMENSIONS IN INCHES	^{SHEET SIZE} В (11х17)					PROJECT	
	This drawing is the property of CR Engineering Inc. and may not be reproduced without CR Engineering Inc. written permission, or used for other than approved purposes.						BIG ROCK BOAT RAMP	
	REV.	REV. DESCRIPTION F DIMENSIONS IN INCHES This drawing is the property of CR Enginee	REV. DESCRIPTION REVISIONS DIMENSIONS IN INCHES B (11x17) This drawing is the property of CR Engineering Inc. and may represented by the property of CR Engineering Inc.	REV. DESCRIPTION REVISIONS DIMENSIONS IN INCHES B (11x17) J KII This drawing is the property of CR Engineering Inc. and may not be re-	REV. DESCRIPTION DAT REVISIONS DIMENSIONS IN INCHES B (11x17) J KING This drawing is the property of CR Engineering Inc. and may not be reproduce	REV. DESCRIPTION DATE REVISIONS DIMENSIONS IN INCHES B (11x17) J KING DATE This drawing is the property of CR Engineering Inc. and may not be reproduced with	REV. DESCRIPTION DATE APPROVED REVISIONS DIMENSIONS IN INCHES B (11x17) J KING DATE (dd/mm/yyyy) DIMENSIONS IN INCHES This drawing is the property of CR Engineering Inc. and may not be reproduced without	A ISSUED FOR TENDER 2/03/2018 JK REV. DESCRIPTION DATE APPROVED REVISIONS DIMENSIONS IN INCHES B (11x17) J KING DATE (dd/mm/yyyy) DIMENSIONS IN INCHES This drawing is the property of CR Engineering Inc. and may not be reproduced without

4

5

6

7

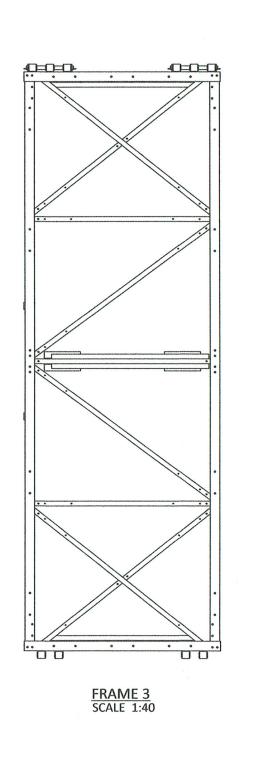
2

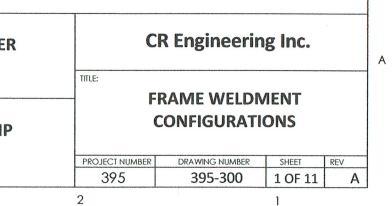


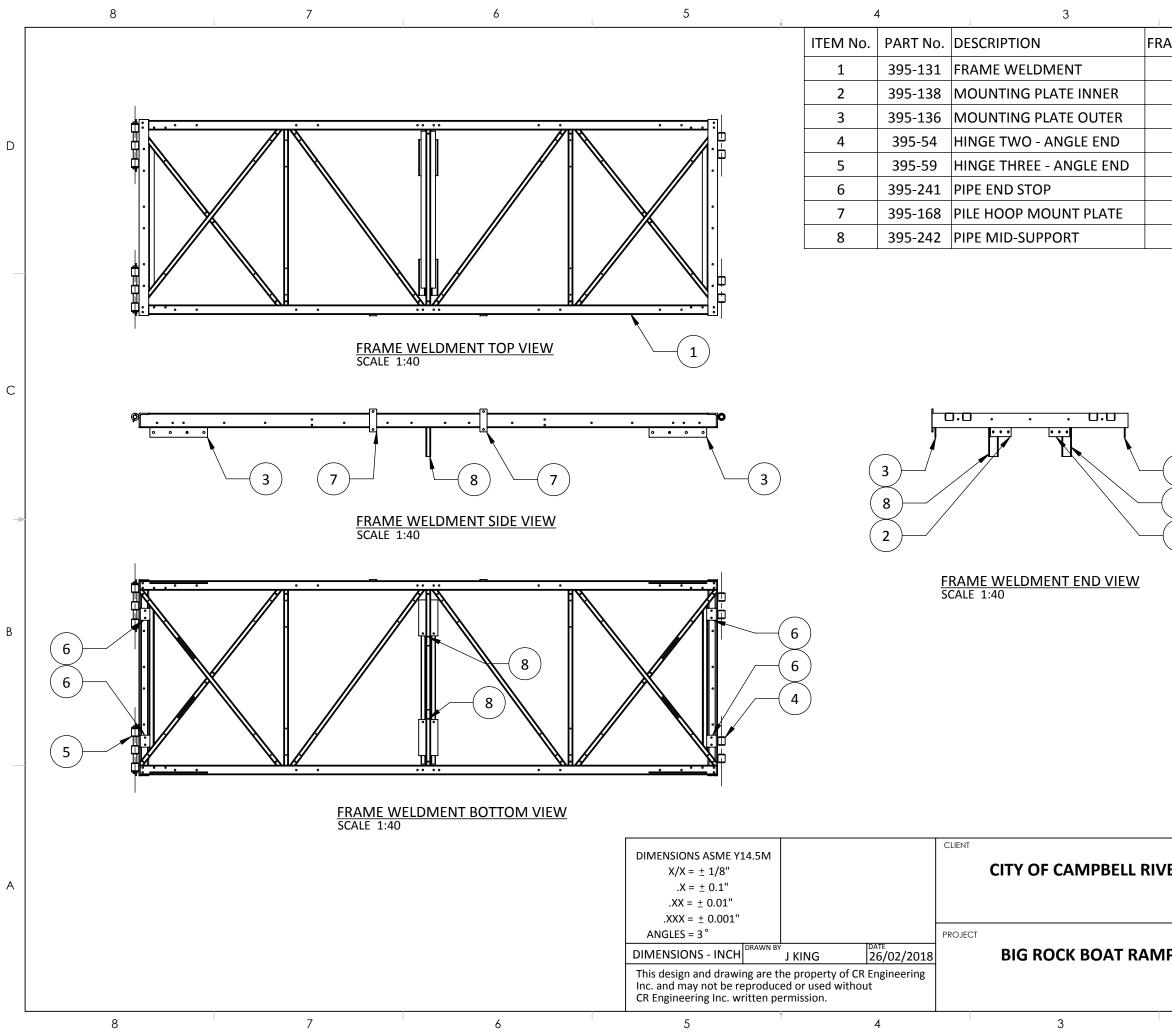
D

С

В





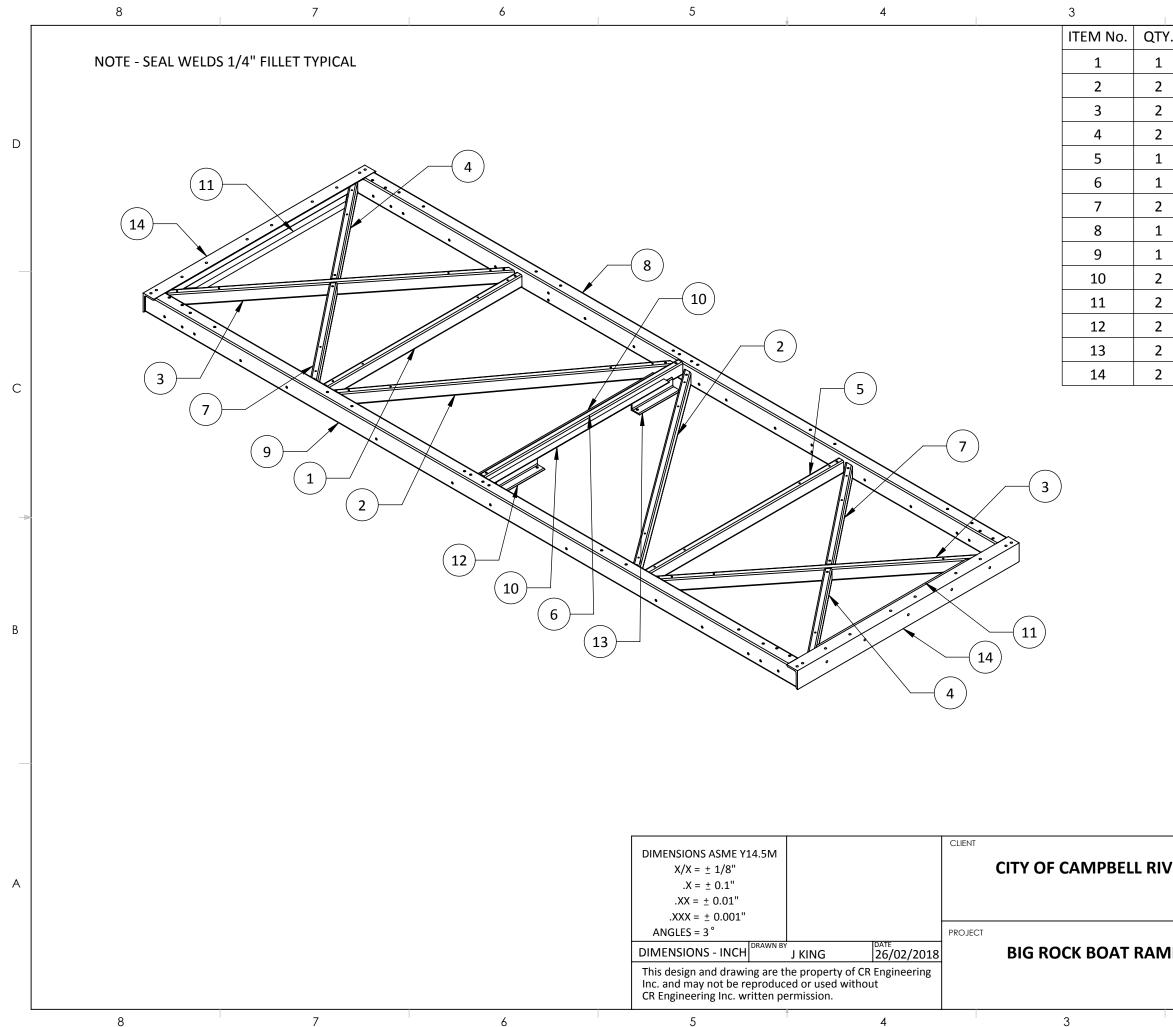


IAL	MATER	ERIAL
0W	50W/35	'350W
0W	44W/30	'300W
0W	44W/30	'300W
OM	A513 D	DOM
OM	A513 D	DOM
0W	44W/30	'300W
00W	44W/30	'300W
0W	50W/35	'350W

/ER	CR Engineering Inc.						
1P	FRAME WELDMENT CONFIGURATIONS BOM						
	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV	1		
_	395	395-300	2 OF 11	A			

С

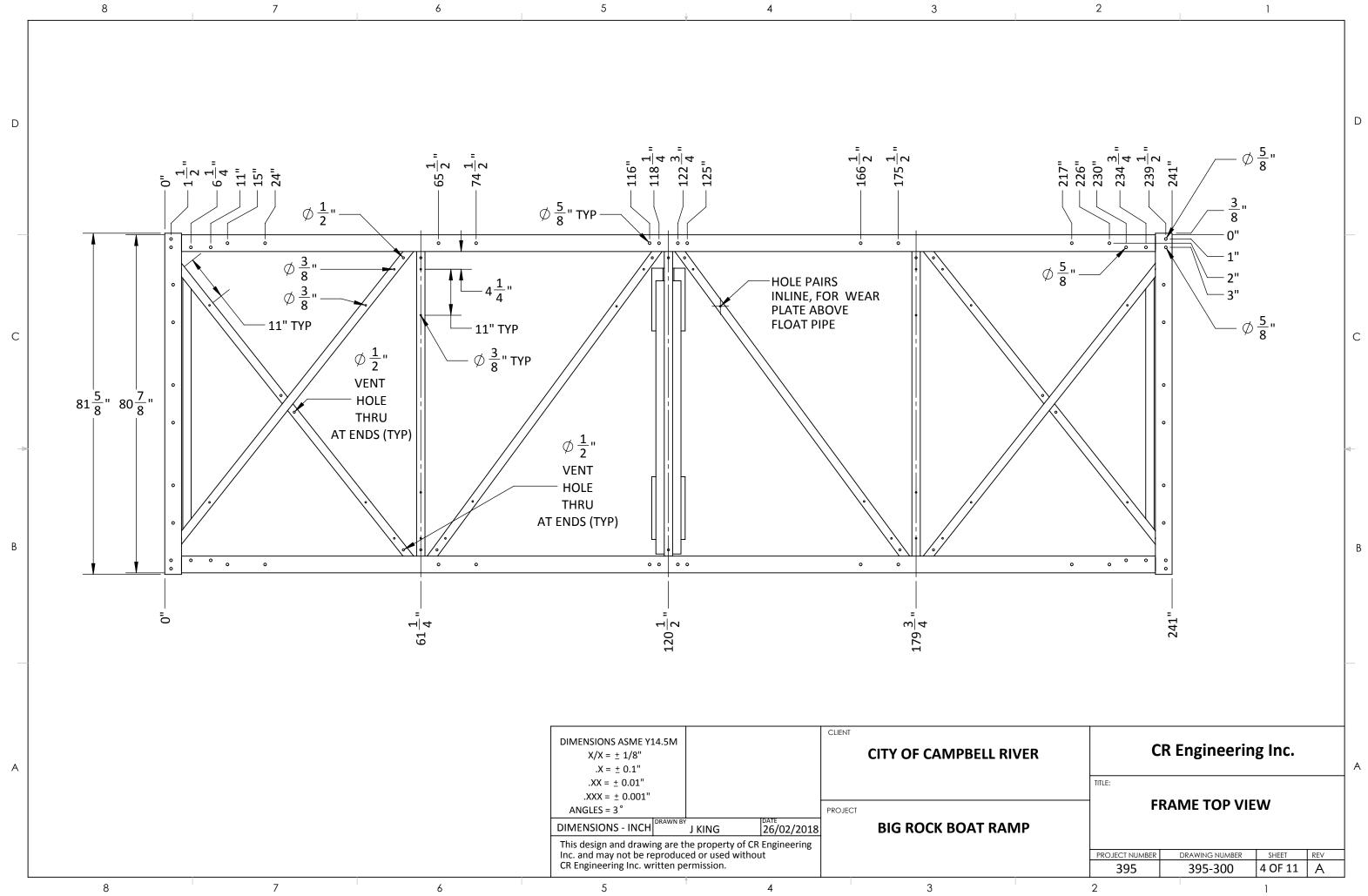
В

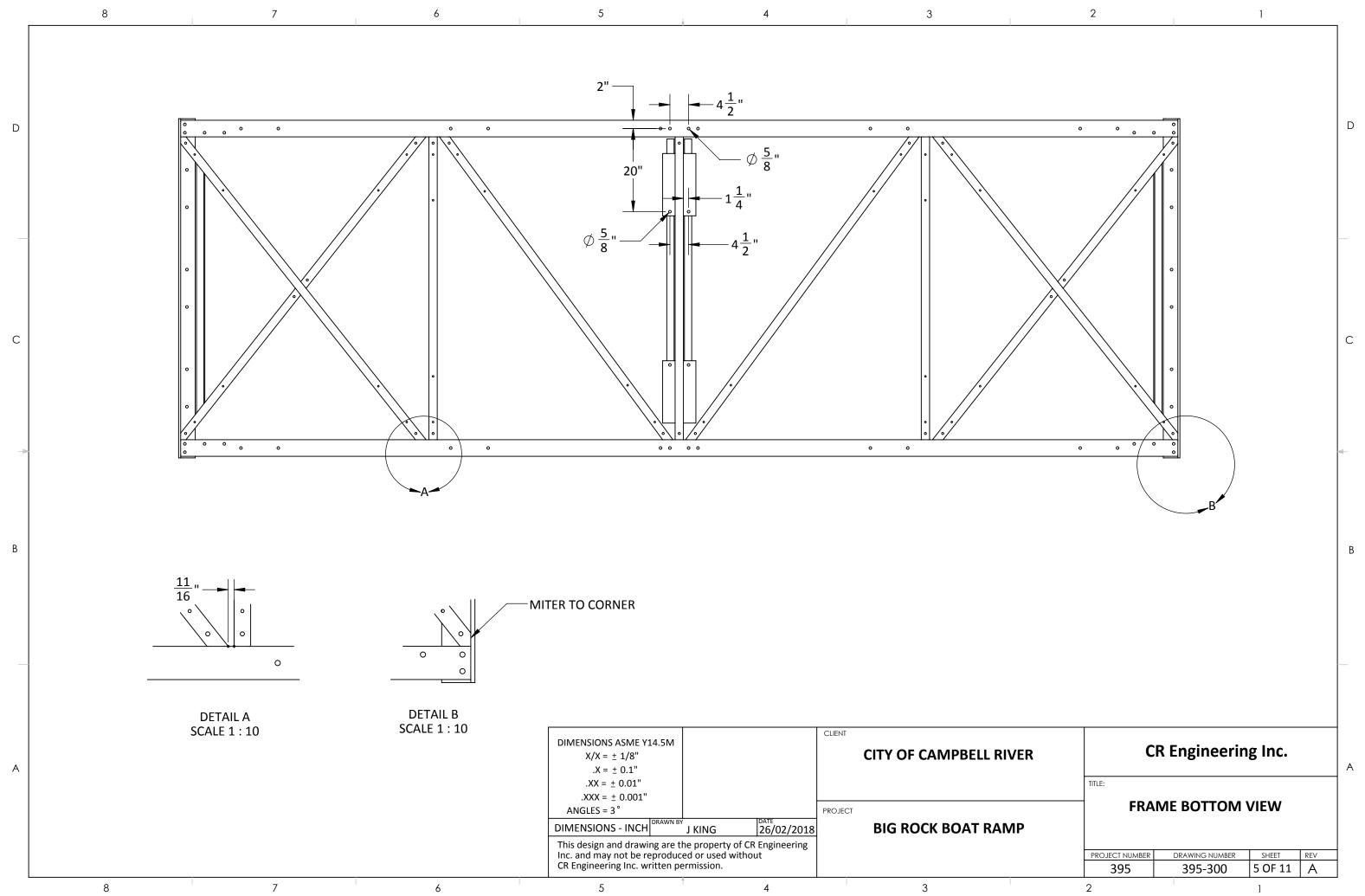


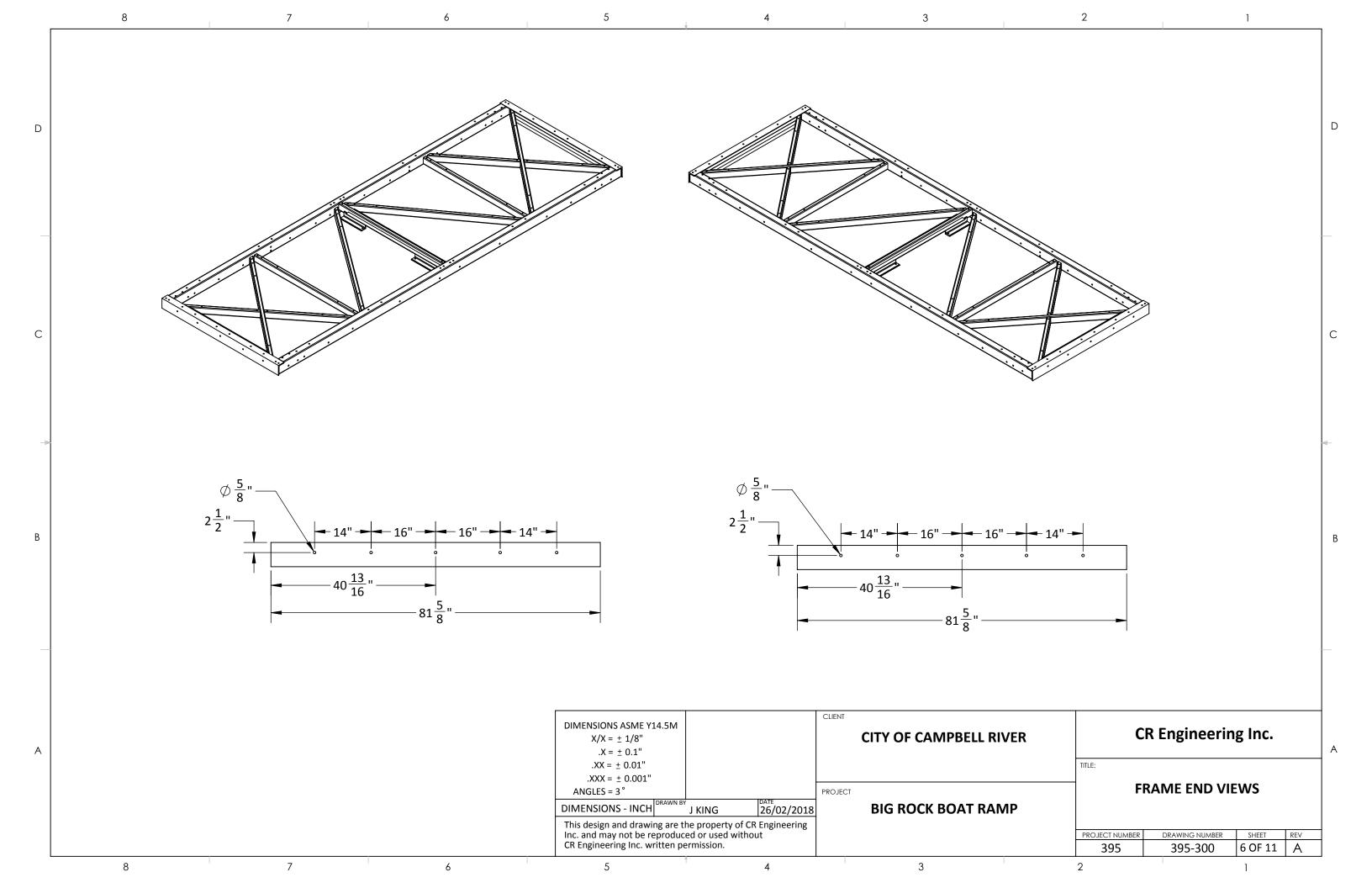
	1		2	
	TOTAL LENGTH	Description	LENGTH	ί.
	774 5/8"	HSS 4 x 2 x 3/16	72 7/8"	
	774 5/8"	HSS 4 x 2 x 3/16	92"	
	774 5/8"	HSS 4 x 2 x 3/16	93 13/16"	
D	774 5/8"	HSS 4 x 2 x 3/16	45 11/16"	
	774 5/8"	HSS 4 x 2 x 3/16	72 7/8"	
	774 5/8"	HSS 4 x 2 x 3/16	72 7/8"	
	774 5/8"	HSS 4 x 2 x 3/16	46 1/2"	
	480"	HSS 6 x 4 x 3/16"	240"	
	480"	HSS 6 x 4 x 3/16"	240"	
	250 13/16"	L 2 x 2 x 1/4	65 3/8"	
	250 13/16"	L 2 x 2 x 1/4	60 1/16"	
	60"	L3x3 x 5/16"	15"	
	60"	L3x3 x 5/16"	15"	
_	163 1/4"	L6x4 x 1/2	81 5/8"	
С				

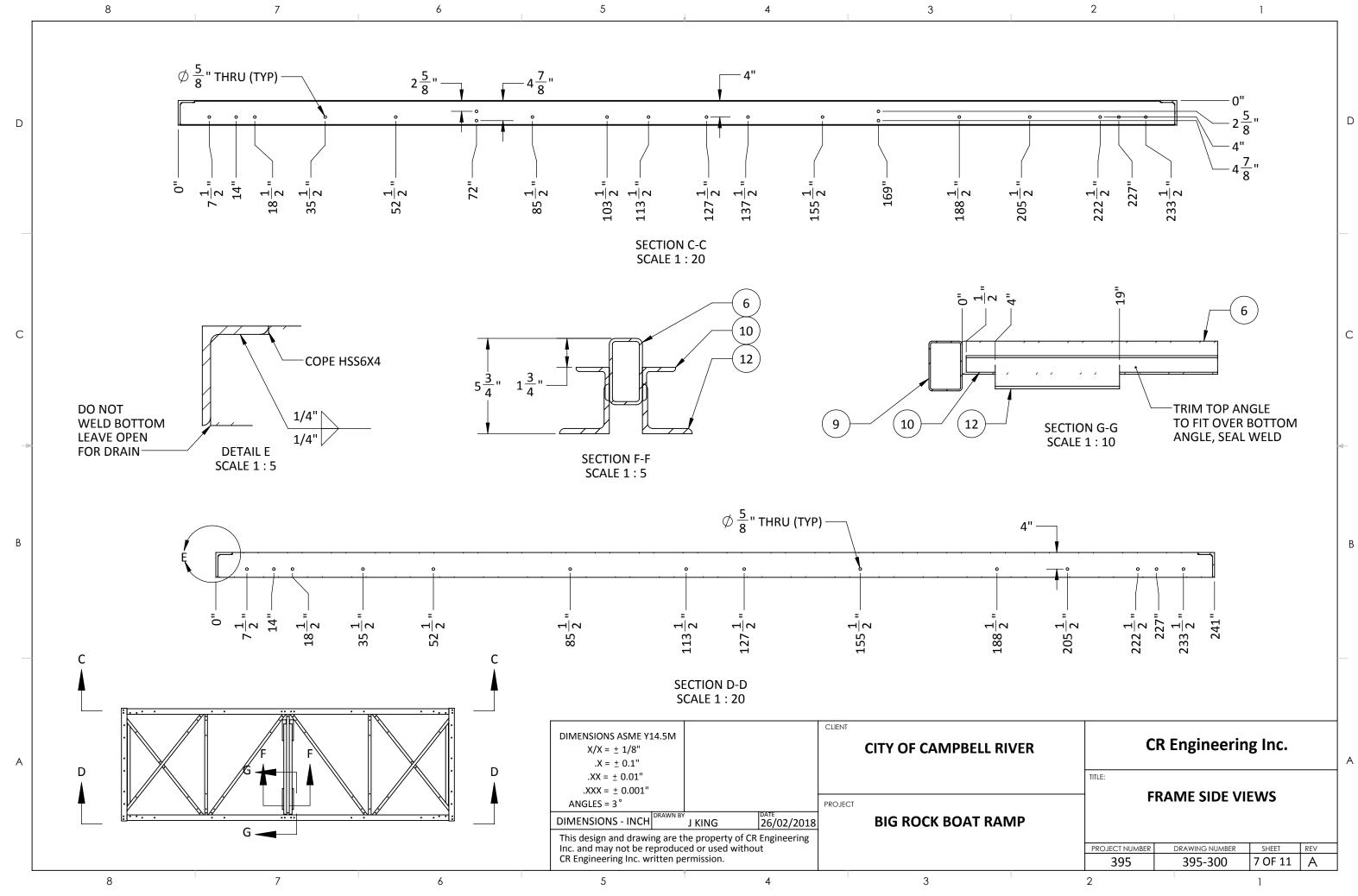
В

/ER	CR Engineering Inc.						
IP							
	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV			
	395	395-300	3 OF 11	A			
	2		1		•		

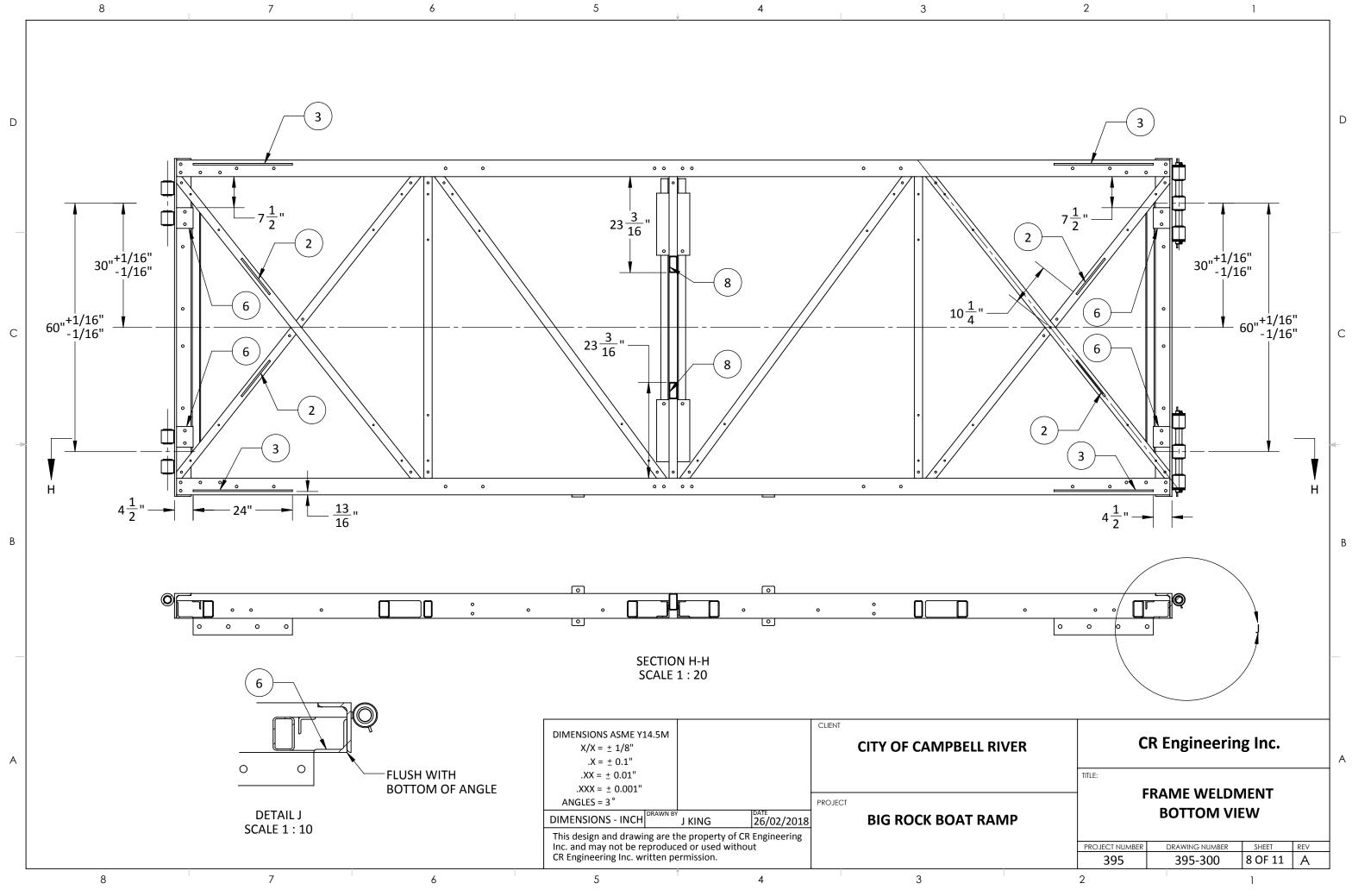




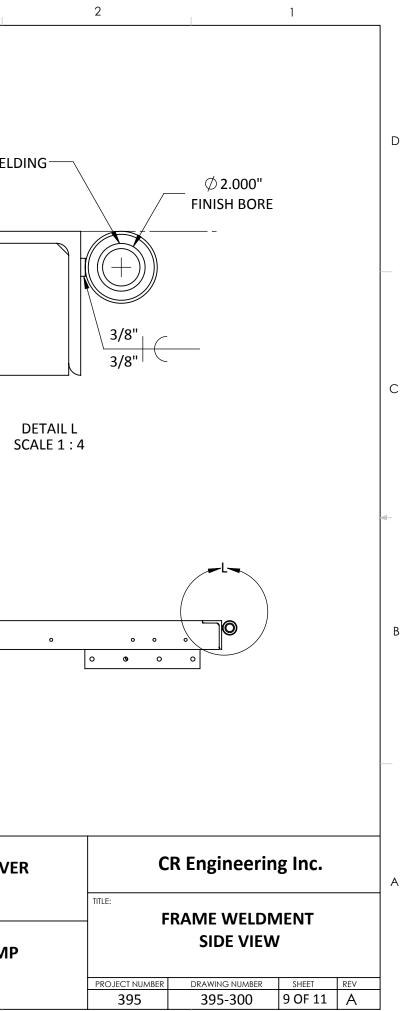


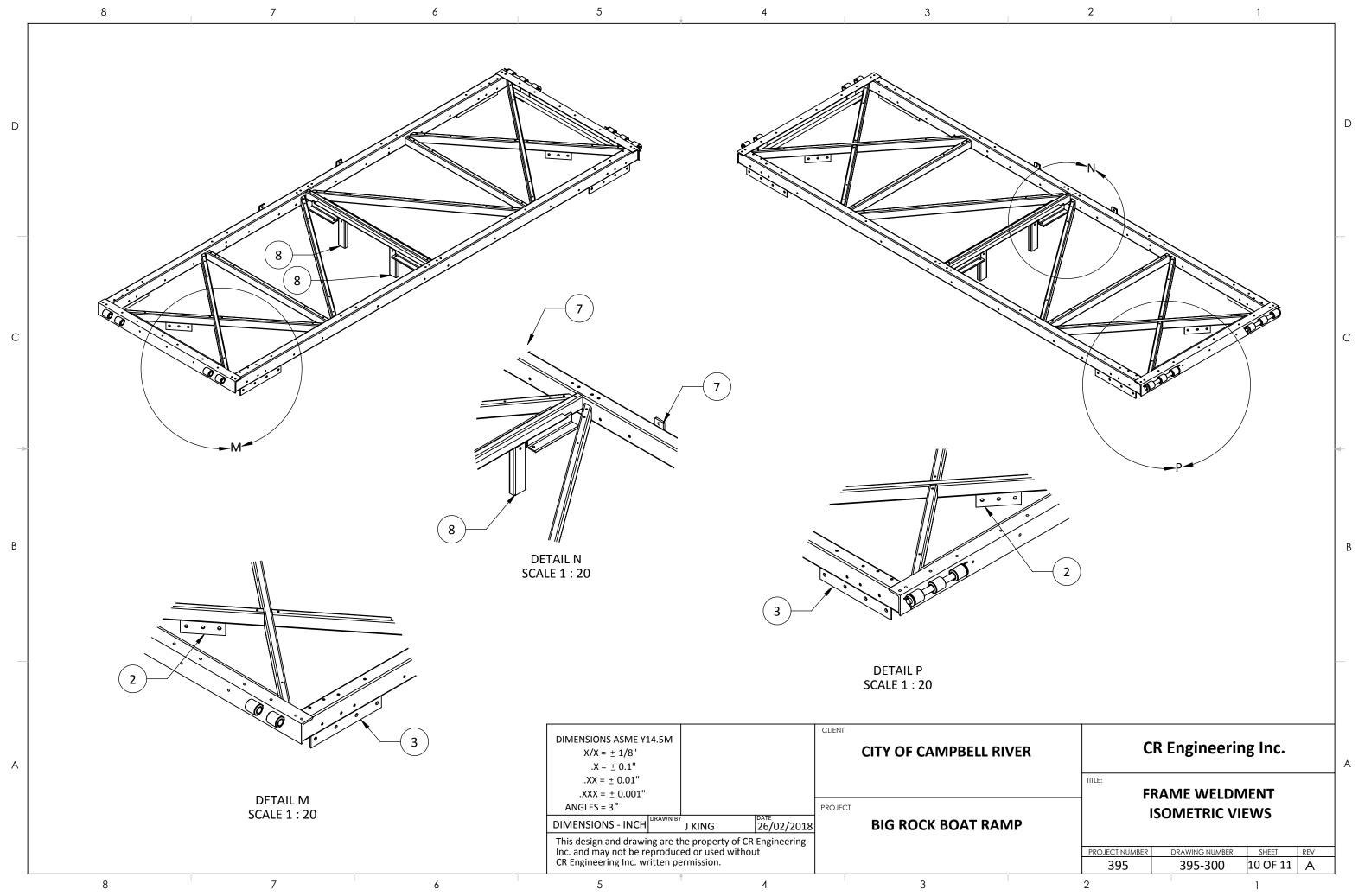


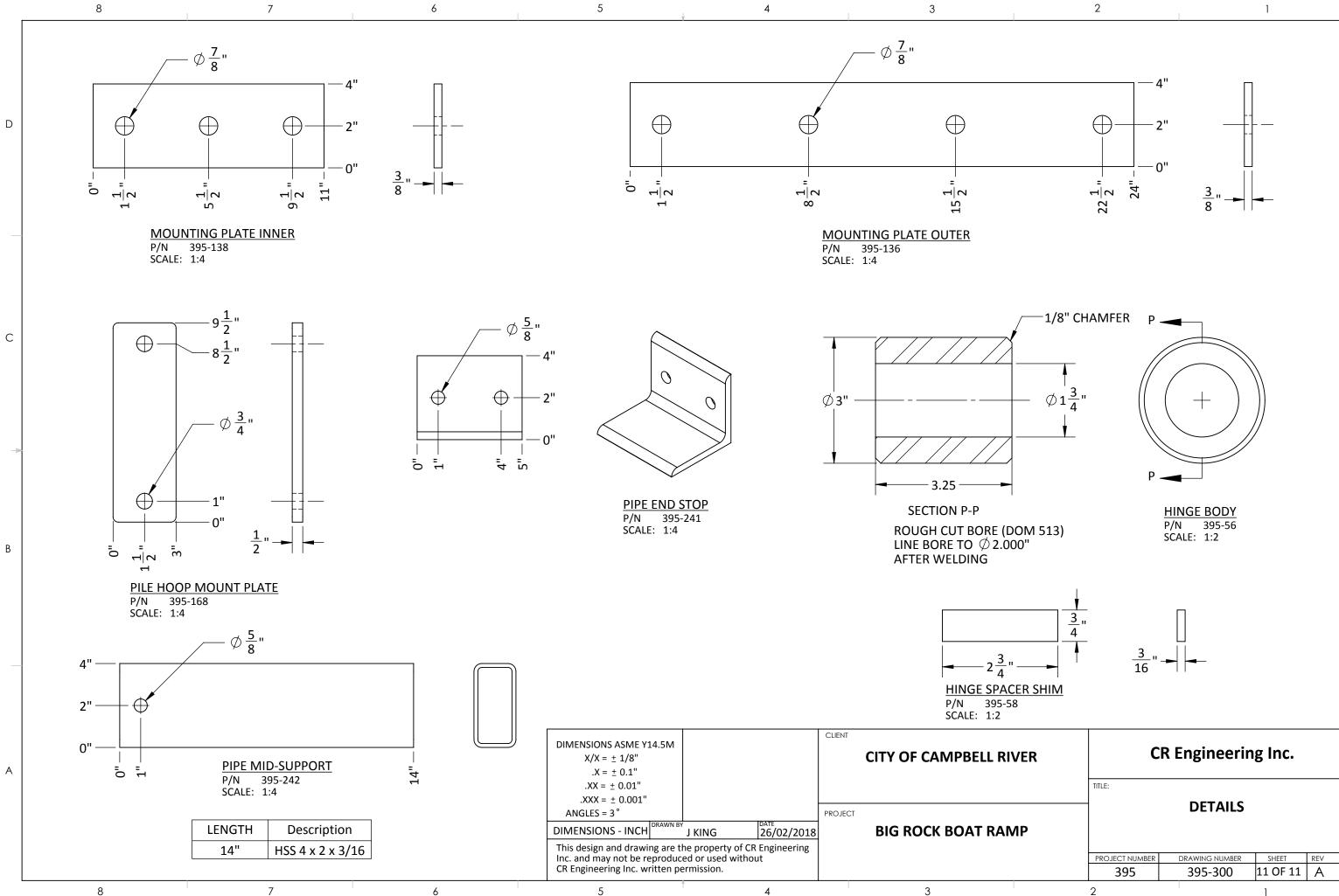
PROJECT NUMBER	DRAWING NUMBER	SHEET	REV
395	395-300	7 OF 11	A



	8	7	6	5	4	3
D						LINE BORE AFTER WELI
		3 "				
						K
С		SPACER SHIM				
		DET/ SCALE	AIL K E 1 : 4			5
->						
В			o 0 o	$1\frac{3}{4}$ -7 7 -7 -7 -7 -7 -7 -7	143 <u>1</u> " • • •	7 ° ° °
A					J KING 26/02/2018 he property of CR Engineering red or used without ermission.	CLIENT CITY OF CAMPBELL RIVE
	8	7	6	5	1	3







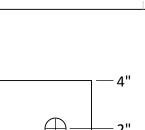


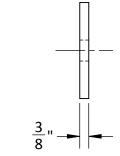


С

В

А





GENERAL	NOTES	AND	SPECIFICATIONS	

- 1. ALL STEEL PLATE 44W/300W AND STEEL SHAPES 50W/350W UNLESS NOTED (CSA G40.20/G40.21).
- 2. HOT DIP GALVANIZED (ASTM A123).

D

С

B

8

3. REFER TO AMERICAN GALVANIZERS ASSOCIATION "DESIGN GUIDE" FOR VENTING HOLES LOCATION AND SIZE 4. ALUMINUM PLATE 5052-H32 (ASTM B209-10),

7

- SHAPES 6061-T6 (ASTM B308). 5. UHMW - RECYCLED UV STABILIZED BLACK
- 6. WOOD DOUGLAS FIR #1 GRADE, ROUGH CUT
- 8. HDPE PIPE MANUFACTURED IN ACCORDANCE WITH ASTM F714 PE4710 RESIN
- 9. HDPE PIPE WELDING END CAPS TO BE BUTT FUSED BY A McElroy CERTIFIED WELDER TO ASTM F2620 10. HDPE PIPE FOAM - 22" DIAMETER ROUND BILLET EPS 15 KOROLITE EPS GEOFOAM ASTM D6817 (NO MORE THAN 1" ANNULAR SPACE ACCEPTED)
- 11. WELDING SHALL ONLY BE UNDERTAKEN BY A COMPANY CERTIFIED BY THE CANADIAN WELDING BUREAU (CWB) TO THE REQUIREMENTS OF CSA 47.1 AND CSA 47.2 (LATEST EDITION) IN DIVISION 1 OR 2. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AND MEET THE QUALITY REQUIREMENTS OF CSA W59 AND 59.2 (LATEST EDITION). ALL WELDERS EMPLOYED BY THE COMPANY SHALL HOLD VALID QUALIFICATIONS ISSUED BY THE CWB. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH WELDING PROCEDURES APPROVED BY THE CWB
- **12. FRAMES ARE IDENTICAL EXCEPT FOR HINGE CONFIGURATIONS**

4

0=0=0

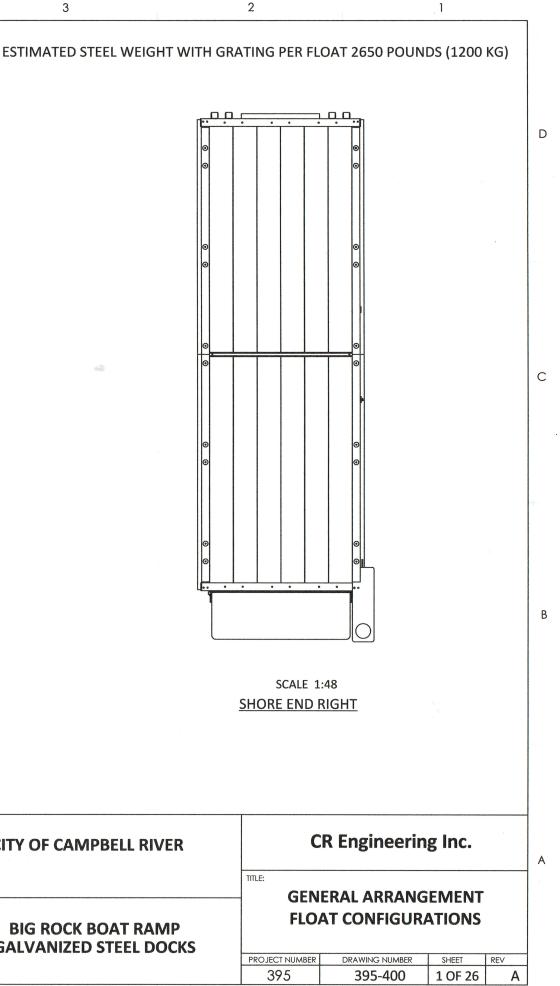
SCALE 1:48 SHORE END LEFT

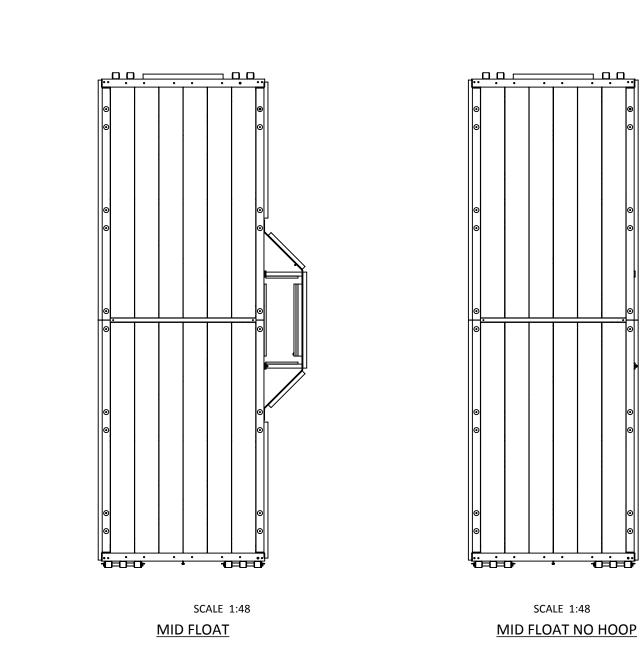
House					CLIENT	CITY OF CAMPBELL RIVER
and the	A ISSUED FOR TEND REV. DESCRIPTION RE	2/03/2018 DATE				
25441	DIMENSIONS IN INCHES			E (dd/mm/yyyy) 7/02/2018	PROJECT	
S NAME 2016	This drawing is the property of CR Engineering Inc. and may not be reproduced without CR Engineering Inc. written permission, or used for other than approved purposes.					BIG ROCK BOAT RAMP GALVANIZED STEEL DOCKS

3

5

6



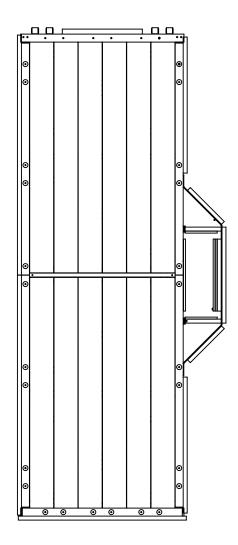


D

С

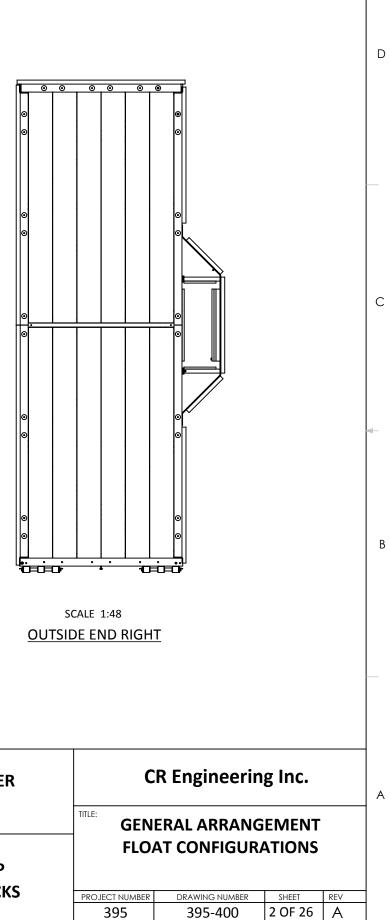
В

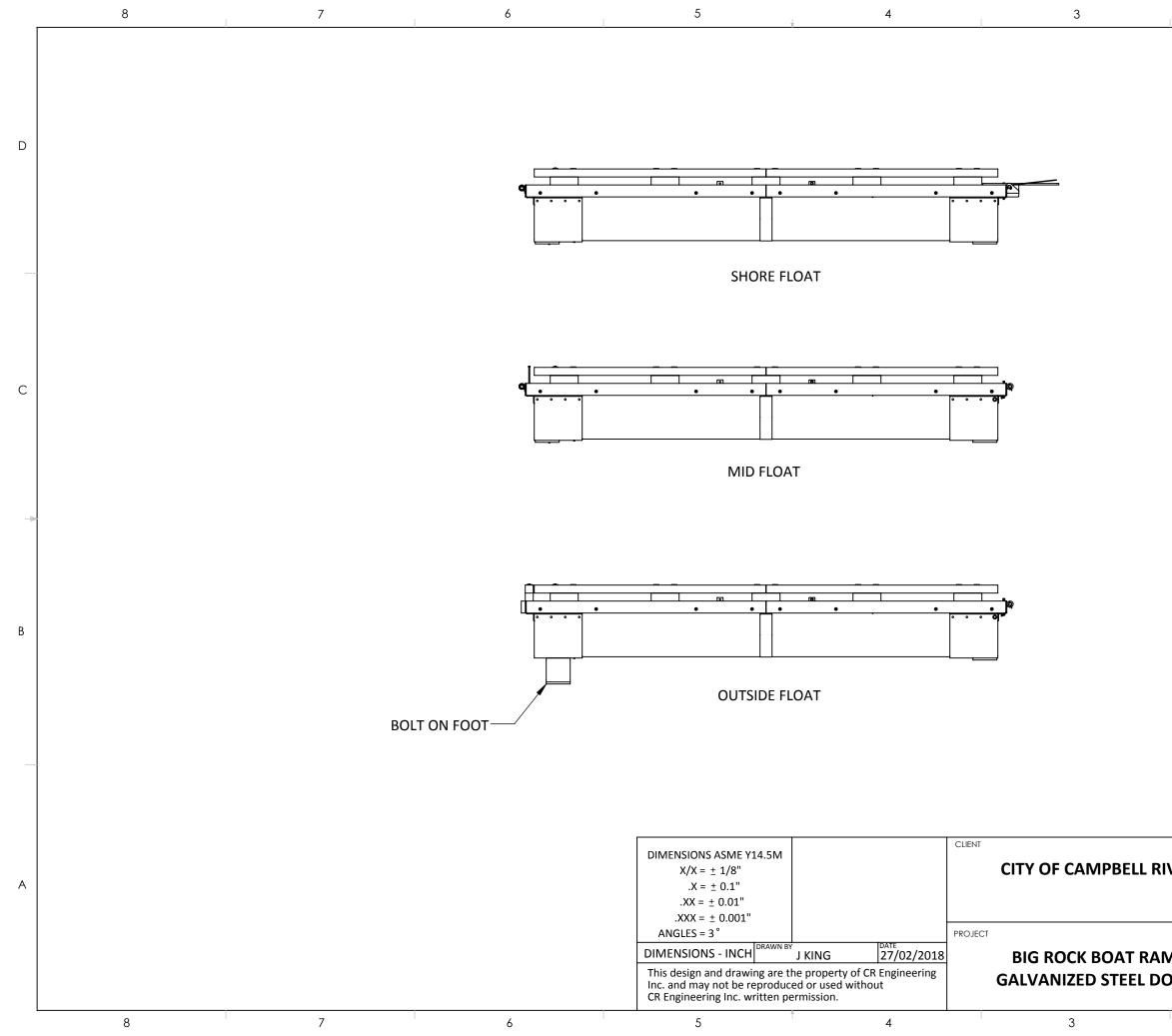
А



SCALE 1:48 OUTSIDE END LEFT

			DIMENSIONS ASME Y14.5M X/X = ± 1/8" .X = ± 0.1" .XX = ± 0.01" .XXX = ± 0.001"		CLIENT CITY OF CAMPBELL RIVER
			ANGLES = 3° DIMENSIONS - INCH This design and drawing are t Inc. and may not be reproduc CR Engineering Inc. written p	J KING 27/02/2018 the property of CR Engineering ted or used without	BIG ROCK BOAT RAMP GALVANIZED STEEL DOCKS
8	7	6	5	1 4	3

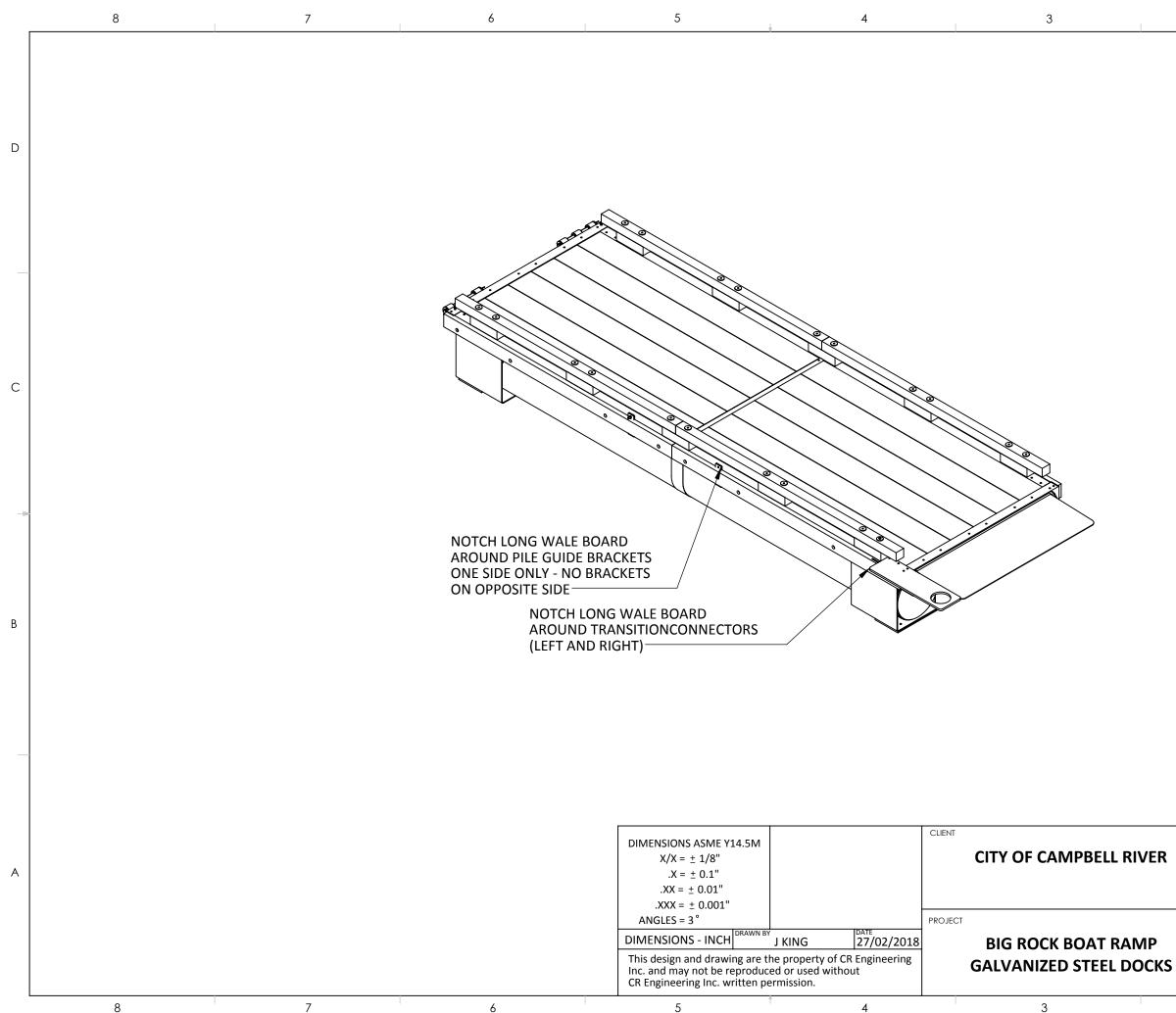




С

В

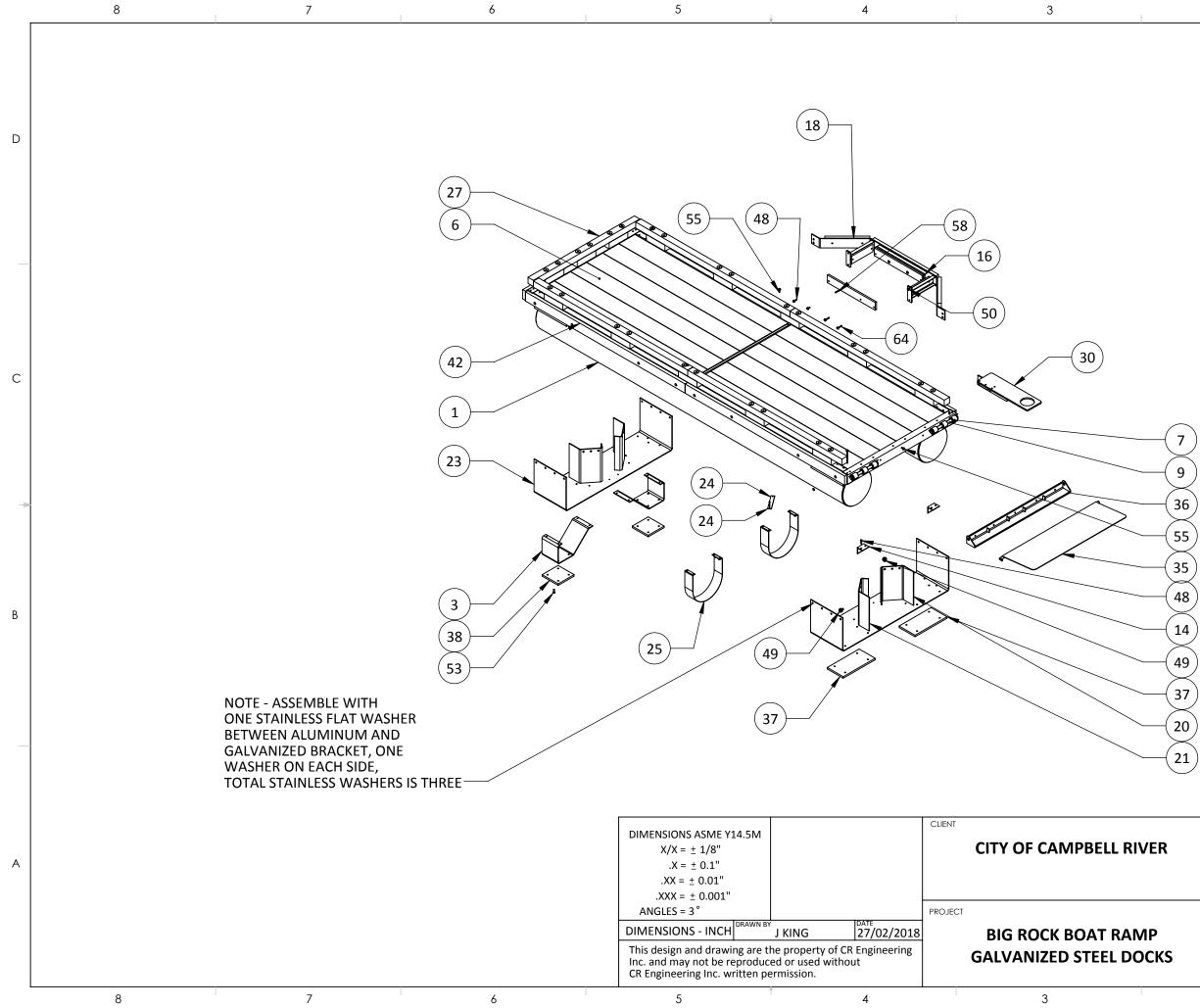
IVER	CR Engineering Inc.						
	TITLE:						
MP		ERAL ARRANG AT CONFIGUR/					
OCKS	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV			
	395	395-400	3 OF 26	A			



С

В

VER
CR Engineering Inc.
TITLE:
GENERAL ARRANGEMENT
FLOAT
VP
OCKS
PROJECT NUMBER
DRAWING NUMBER
SHEET
REV
395
395-400
4 OF 26
A





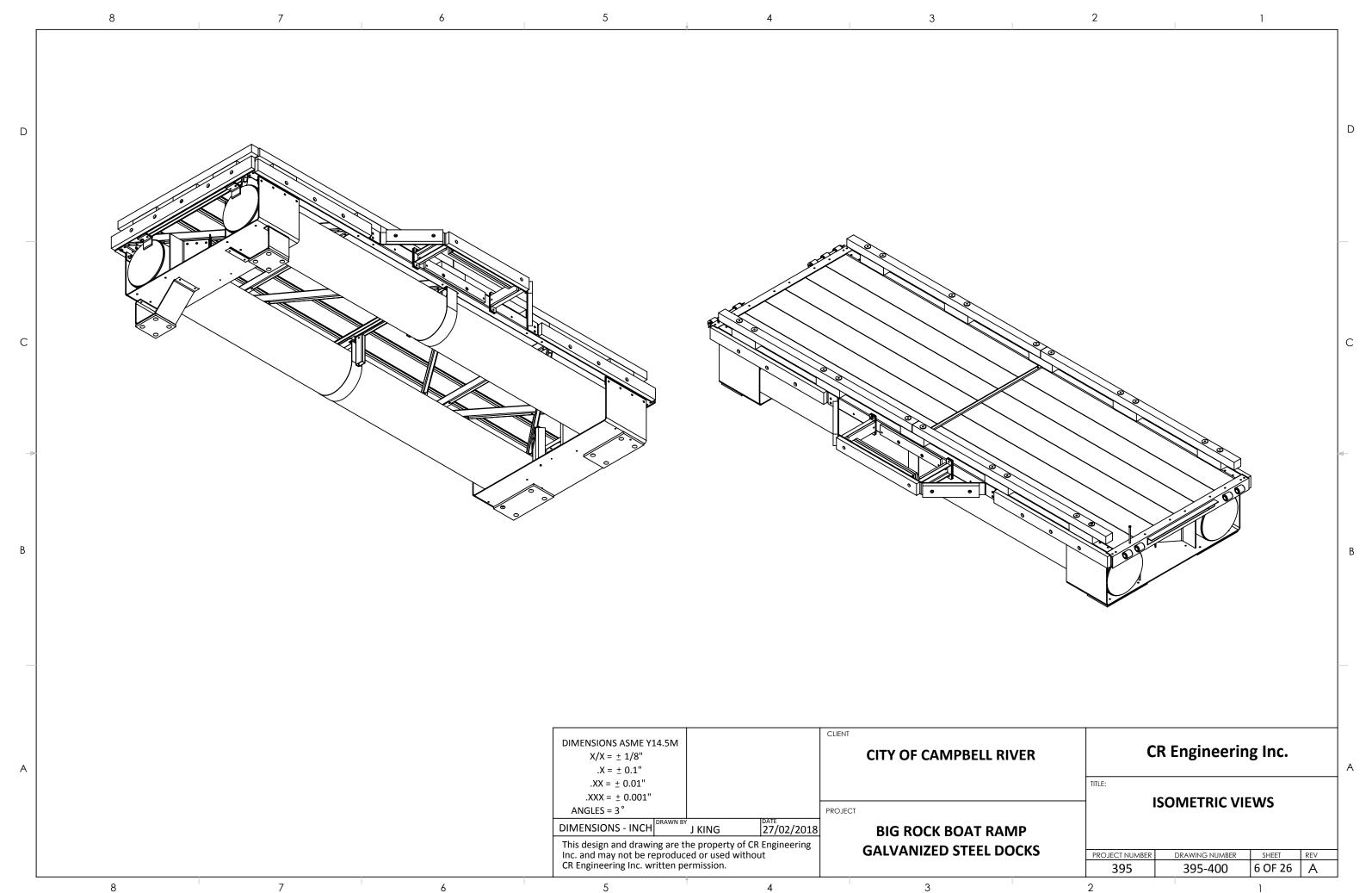


_	
Г	`
L	כ

С

В

/ER	CR Engineering Inc.									
OCKS	PROJECT NUMBER 395	DRAWING NUMBER	SHEET	REV A						
	2		1	1	1					



	7 6	5		4		3		2		1
PART No.	DESCRIPTION	SHORE END LEFT/QTY.	SHORE END RIGHT/QTY.		MID FLOAT NO HOOP/QTY.	OUTSIDE END LEFT/QTY.	OUTSIDE END RIGHT/QTY.	TOTAL	MATERIAL	
395-06	22" (559mm), HDPE DR 32.5, BUTT FUSED END CAPS FILLED WITH ROUND TYPE 2 KOROFLOAT FOAM	5, 2	2	2	2	2	2		HDPE	
395-244	CONNECTOR BACKING PLATE	1	1	-	-	-	-		44W/300W	
395-275	CONNECTOR LEFT	1	-	-	-	-	-		44W/300W	
395-270	CONNECTOR RIGHT	-	1	-	-	-	-		44W/300W	
395-206	END FLOAT FOOT	-	-	-	-	2	2		5052-H32	
395-145	FLOAT GAP FILLER ANGLE	-	1	1	1	1	-		44W/300W	
395-300	FRAME 1 WELDMENT	-	1	-	-	1	-		300W/350W	
395-300	FRAME 2 WELDMENT	1	-	-	-	-	1		300W/350W	
395-300	FRAME 3 WELDMENT	-	-	1	1	-	-		300W/350W	
395-42	GRATING - ROUND HOLE 12" x 1-1/2", 13 GA	12	12	12	12	12	12		STEEL	
395-52	HINGE PIN	2	-	2	2	-	2		316 SS	
395-65	PILE GUIDE	-	-	1	-	1	1		44W/300W	
395-241	PIPE END STOP	4	4	4	4	4	4		44W/300W	
395-180	PIPE SUPPORT	2	2	2	2	2	2		5052-H32	
395-141	STAINLESS WEAR PLATE	16	16	16	16	16	16		304 SS	
395-43	STRAP	2	2	2	2	2	2		316 SS	
395-253	TIE UP RAIL BLOCK	10	10	10	10	13	13		ROUGH CUT FIR	
395-254	TIE UP RAIL END	-	-	-	-	1	1		ROUGH CUT FIR	
395-252	TIE UP RAIL SIDE	4	4	4	4	4	4		ROUGH CUT FIR	
395-281	TRANSITION PLATE SUPPORT ANGLE	1	1	-	-	-	-		44W/300W	
395-155	TRANSITION RAMP	1	1	-	-	-	-		44W/300W	
395-44	UHMW BOTTOM SHOE	4	4	4	4	2	2		BLACK UHMW	
395-207	UHMW END FOOT SHOE	_	-	-	-	2	2		BLACK UHMW	
395-146	WALE BOARD END	_	-	-	-	1	1		ROUGH CUT FIR	
395-151	WALE BOARD LONG SIDE	4	4	2	4	2	2		ROUGH CUT FIR	
395-147	WALE BOARD SHORT SIDE	_	-	2	-	2	2		ROUGH CUT FIR	
395-208	TIMBER WASHER 1/2"	20	20	20	20	26	26		GALVANIZED	
395-245	ZINC ANODE 3LB	2	2	2	2	2	2		MARTYR CM706 OR EQUIVALENT	
		X/X = :	± 0.1" ± 0.01"		CLIENT	TY OF CAMPE	BELL RIVER	TITLE:	CR Engineerin	
		ANGLES = 3	3°	IDATE	PROJECT				BILL OF MATER	
		DIMENSIONS				BIG ROCK BO	AT RAMP			
		This design and drawing are the property of CR Engineering Inc. and may not be reproduced or used without		GA GA	LVANIZED ST	EEL DOCKS	PROJE	ECT NUMBER DRAWING NUMBER	SHEET REV	

5	Ļ	4		3		2		1	
SHORE END LEFT/QTY.	SHORE END RIGHT/QTY.	MID FLOAT/QTY.	MID FLOAT NO HOOP/QTY.	OUTSIDE END LEFT/QTY.	OUTSIDE END RIGHT/QTY.	TOTAL	MATERIAL		
2	2	2	2	2	2		HDPE		
1	1	-	-	-	-		44W/300W		
 1	_	_	-	-	_		44W/300W		[
_	1	_	-	-	_		44W/300W		
_	_	_	-	2	2		5052-H32		
 _	1	1	1	1	-		44W/300W		
-	1	-	-	1	-		300W/350W		
1	-	-	-	-	1		300W/350W		
-	-	1	1	-	-		300W/350W		
12	12	12	12	12	12		STEEL		
 2	-	2	2	-	2		316 SS		
-	-	1	-	1	1		44W/300W		
4	4	4	4	4	4		44W/300W		
2	2	2	2	2	2		5052-H32		
 16	16	16	16	16	16		304 SS		
2	2	2	2	2	2		316 SS		
10	10	10	10	13	13		ROUGH CUT FIR		
-	_	_	_	1	1		ROUGH CUT FIR		-
4	4	4	4	4	4		ROUGH CUT FIR		
1	1	_	_	-	_		44W/300W		
1	1	_	_	-	_		44W/300W		
4	4	4	4	2	2		BLACK UHMW		
-	_	_	_	2	2		BLACK UHMW		
_	_	_	_	1	1		ROUGH CUT FIR		
4	4	2	4	2	2		ROUGH CUT FIR		
 _	_	2	_	2	2		ROUGH CUT FIR		
20	20	20	20	26	26		GALVANIZED		
 20	20	20	20	20	20		MARTYR CM706 OR		
2	2	2	2	2	2		EQUIVALENT		
X/X = ± .X = ± .XX = ±	0.1" 0.01"		CLIENT	TY OF CAMPE	BELL RIVER	TITLE:	CR Engineer	-	
.XXX = ± ANGLES = 3 DIMENSIONS This design ar	• - INCH DRAWN BY J K d drawing are the p	ING 27/02		BIG ROCK BO			PARTS AND ASS BILL OF MAT	ERIALS	
Inc. and may CR Engineerin	not be reproduced of g Inc. written permi	or used without ission.					CT NUMBER DRAWING NUMBER 395 395-400	R SHEET REV 7 OF 26 A	\neg
5	Ť	4	I	3	1	2		1	

С

В

А

8

6

	7	6	5	4	4		3		2		1
PART No.	DESCRIPTION		SHORE END LEFT/QTY.	SHORE END RIGHT/QTY.	MID FLOAT/QTY.	MID FLOAT NO HOOP/QTY.	OUTSIDE END LEFT/QTY.	OUTSIDE END RIGHT/QTY.	TOTAL	MATERIAL	
HFBOLT 0.25- 20x4.5x0.75-N	BOLT 1/4 x 4-1/2 WITH NUT AI WASHERS, RED LOCKTITE NUT		32	32	32	32	32	32	448	GALVANIZED	
HFBOLT 0.375- 16x1.25x1-N	BOLT 3/8 x 1-1/4 WITH NYLOC WASHERS	K NUT AND TWO FLAT	4	4	4	4	4	4	56	18-8 STAINLESS	
HFBOLT 0.5- 13x1.5x1.25-N	BOLT 1/2 x 1-1/2 WITH NYLOC WASHERS	K NUT AND TWO FLAT	4	4	4	4	4	4	56	18-8 STAINLESS	
HFBOLT 0.5- 13x1.75x1.25-N	BOLT 1/2 x 1-3/4 WITH NYLOC WASHERS	K NUT AND TWO FLAT	-	-	-	-	8	8	16	18-8 STAINLESS	
HFBOLT 0.5- 13x2x1.25-N	BOLT 1/2 x 2 WITH NUT AND T RED LOCKTITE NUT	WO FLAT WASHERS,	-	3	3	3	3	-	36	GALVANIZED	
HFBOLT 0.5- 13x2.5x1.25-N	BOLT 1/2 x 2-1/2 WITH NUT AI WASHERS, RED LOCK TITE NUT		5	5	12	-	17	17	56	GALVANIZED	
HFBOLT 0.5- 13x3x1.25-N	BOLT 1/2 x 3 WITH NUT AND T RED LOCKTITE NUT	WO FLAT WASHERS,	-	-	2	-	2	2		GALVANIZED	
HFBOLT 0.5- 13x5.5x1.25-N	BOLT 1/2 x 5-1/2 WITH NUT AI WASHERS, RED LOCK TITE NUT		-	-	8	-	8	8	64	GALVANIZED	
HFBOLT 0.5- 13x6x1.25-N	BOLT 1/2 x 6 WITH NUT AND T RED LOCKTITE NUT	WO FLAT WASHERS,	2	2	-	-	-	-	4	GALVANIZED	
HFBOLT 0.5- 13x6.5x1.25-N	BOLT 1/2 x 6-1/2 WITH NUT AI WASHERS, RED LOCKTITE NUT		16	16	16	16	16	16	224	GALVANIZED	
HFBOLT 0.5- 13x8x1.25-N	BOLT 1/2 x 8 WITH NUT AND T RED LOCKTITE NUT		4	4	-	-	-	-	8	GALVANIZED	
HFBOLT 0.5- 20x10x1.25-N	BOLT 1/2 x 10 WITH NUT AND RED LOCKTITE NUT	TWO FLAT WASHERS,	-	-	-	-	6	6	12	GALVANIZED	
HFBOLT 0.5- 20x12x1.25-N	BOLT 1/2" x 15" (OR 16"), GRA TWO FLAT WASHERS, RED LOC		20	20	20	20	20	20	280	GALVANIZED	
HHSBOLT 0.6250- 11x2x1.25-N	BOLT 5/8 x 2 GRADE A307 WIT WASHERS, RED LOCKTITE NUT	H NUT AND TWO FLAT	4	4	4	4	4	4	56	GALVANIZED	
HHSBOLT 0.7500- 10x2x1.375-N	BOLT GRADE A307 3/4 x 2 WIT STAINLESS FLAT WASHERS, RE	H NUT AND THREE	28	28	28	28	28	28	392	GALVANIZED]
SCHCSCREW 0.625- 11x2x2-HX-N	SCREW COUNTERSUNK 5/8 x 2 AND ONE FLATWASHER	, WITH NYLOCK NUT	16	16	16	16	16	16	224	18-8 STAINLESS	

	ISIONS ASME Y X/X = ± 1/8" .X = ± 0.1" .XX = ± 0.01" XXX = ± 0.001"	-			CLIENT	CITY OF CAMPBELL RIVE	Ē
ANG	iLES = 3°				PROJECT		
DIMEN	ISIONS - INCH	DRAWN BY	J KING	DATE 27/02/2018		BIG ROCK BOAT RAMP)
Inc. ar	esign and draw d may not be r gineering Inc. w	eproduc	ed or used with		GALVANIZED STEEL DOC		
-	5		Î	4	ĺ	з	

С

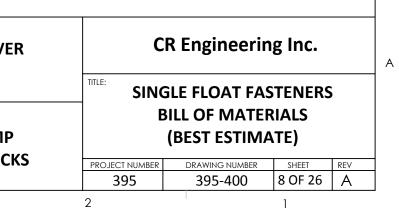
В

А

8

7

6



D

С

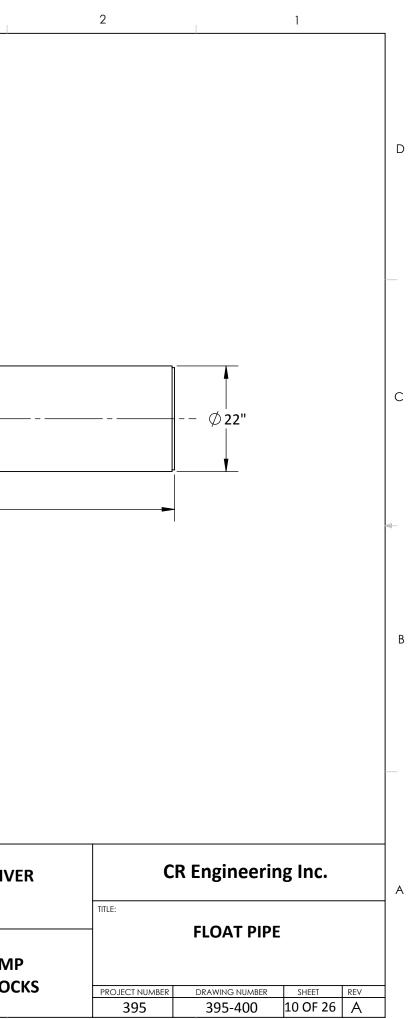
В

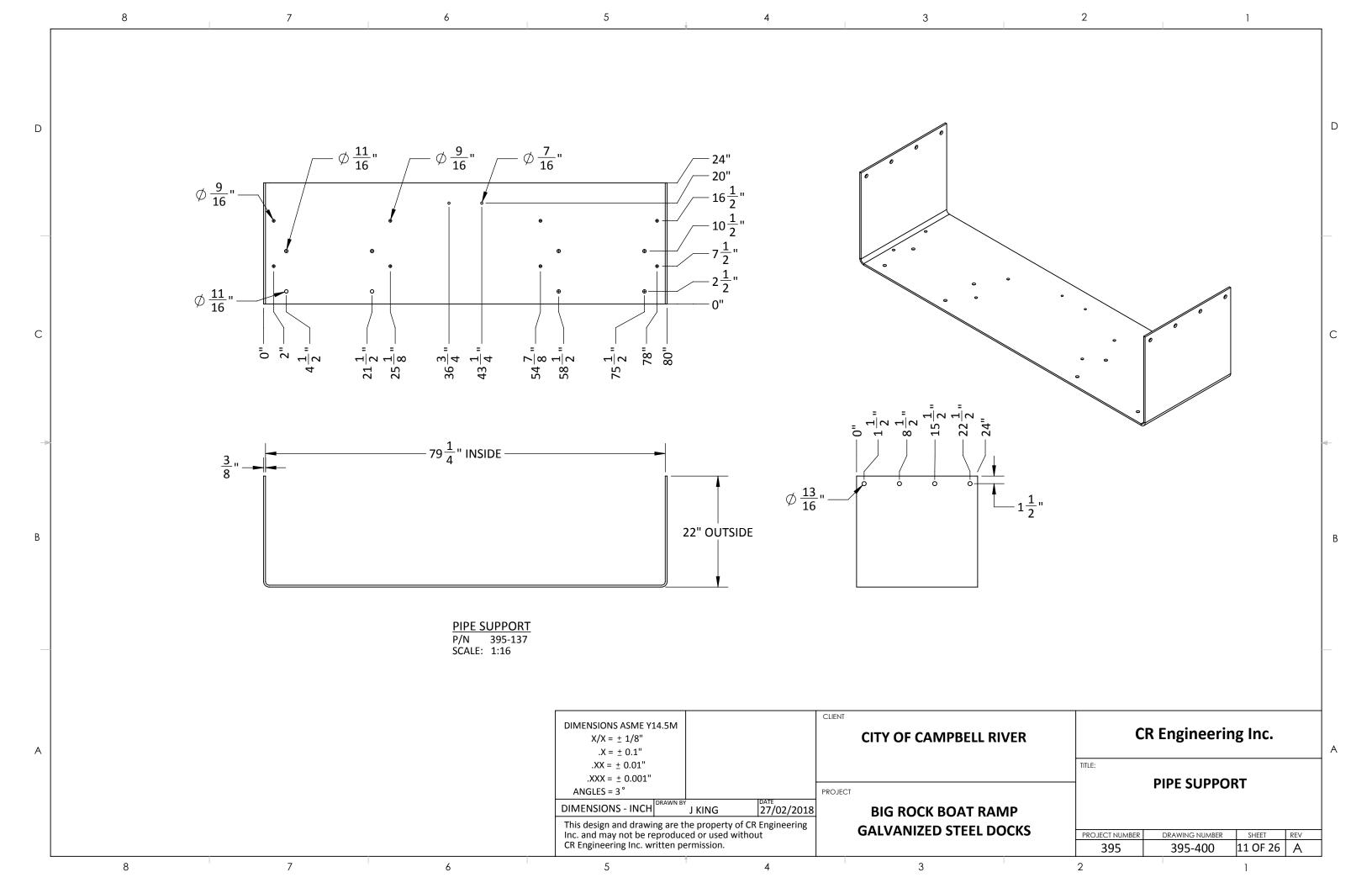
	8	7 6		5
TEM No.	PART No.	DESCRIPTION	QTY.	MATERIAL
1	395-06	22" (559mm), HDPE DR 32.5, BUTT FUSED END CAPS, FILLED WITH ROUND TYPE 2 KOROFLOAT FOAM	28	HDPE
2	395-244	CONNECTOR BACKING PLATE	2	44W/300W
3	395-206	END FLOAT FOOT	4	5052-H32
4	395-145	FLOAT GAP FILLER ANGLE	12	44W/300W
5	395-131	FRAME WELDMENT	14	50W/350W
6	395-42	GRATING - ROUND HOLE 12" x 1-1/2", 13 GA	168	STEEL
7	395-56	HINGE BODY	120	A513 1026 DOM (3" x 1.75") OR EQUIVALENT
8	395-57	HINGE BUSHING	120	MD FILLED NYLON 2" x 1-1/2"
9	395-52	HINGE PIN	48	316 SS
10	395-58	HINGE SPACER SHIM	120	44W/300W
11	281-95	KEEPER PIN	48	304 SS
12	395-138	MOUNTING PLATE INNER	54	44W/300W
13	395-136	MOUNTING PLATE OUTER	56	44W/300W
14	395-241	PIPE END STOP	112	44W/300W
15	395-62	PILE GUARD CHANNEL	16	44W/300W
16	395-63	PILE GUARD MOUNTING CHANNEL	8	44W/300W
17	395-164	PILE GUARD MOUNTING PLATE	16	44W/300W
18	395-61	PILE GUIDE GUARD	8	44W/300W
19	395-168	PILE HOOP MOUNT PLATE		44W/300W
20				5052-H32
21		PIPE INNER BRACKET RIGHT		5052-H32
		PIPE MID-SUPPORT		50W/350W
23	395-137	PIPE SUPPORT	28	5052-H32
24		STAINLESS WEAR PLATE	224	304 SS
25	395-43	STRAP		504 33
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24	2 395-244 3 395-206 4 395-145 5 395-131 6 395-42 7 395-56 8 395-57 9 395-52 10 395-58 11 281-95 12 395-138 13 395-136 14 395-241 15 395-62 16 395-63 17 395-164 18 395-61 19 395-168 20 395-142 21 395-142 22 395-242 23 395-137 24 395-141	KOROFLOAT FOAM 2 395-244 CONNECTOR BACKING PLATE 3 395-206 END FLOAT FOOT 4 395-145 FLOAT GAP FILLER ANGLE 5 395-131 FRAME WELDMENT 6 395-42 GRATING - ROUND HOLE 12" x 1-1/2", 13 GA 7 395-56 HINGE BODY 8 395-57 HINGE BUSHING 9 395-52 HINGE SPACER SHIM 10 395-58 HINGE SPACER SHIM 11 281-95 KEEPER PIN 12 395-138 MOUNTING PLATE INNER 13 395-136 MOUNTING PLATE OUTER 14 395-241 PIPE END STOP 15 395-62 PILE GUARD CHANNEL 16 395-63 PILE GUARD MOUNTING PLATE 17 395-164 PILE GUIDE GUARD 19 395-168 PILE HOOP MOUNT PLATE 20 395-142 PIPE INNER BRACKET LEFT 21 395-142 PIPE INNER BRACKET RIGHT 22 395-242 PIPE MID-SUPPORT	KOROFLOAT FOAM 2 395-244 CONNECTOR BACKING PLATE 2 3 395-206 END FLOAT FOOT 4 4 395-145 FLOAT GAP FILLER ANGLE 12 5 395-131 FRAME WELDMENT 14 6 395-42 GRATING - ROUND HOLE 12" x 1-1/2", 13 GA 168 7 395-56 HINGE BODY 120 8 395-57 HINGE BUSHING 120 9 395-52 HINGE BUSHING 120 9 395-58 HINGE SPACER SHIM 120 11 281-95 KEEPER PIN 48 12 395-138 MOUNTING PLATE INNER 54 13 395-136 MOUNTING PLATE OUTER 56 14 395-241 PIPE END STOP 112 15 395-62 PILE GUARD MOUNTING CHANNEL 8 17 395-164 PILE GUARD MOUNTING PLATE 16 18 395-61 PILE GUIDE GUARD 8 19 395-168 PILE HOOP MOU

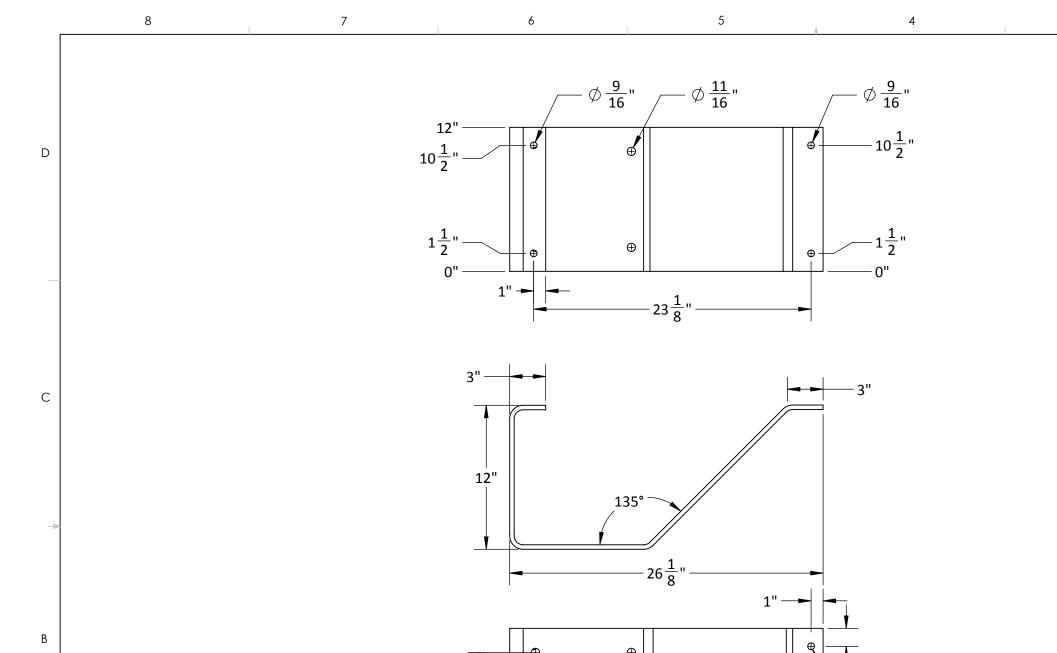
	8	7 6		5	 4	ļ	3 2	<u> </u>	1
M o.	PART No.	DESCRIPTION	QTY.	MATERIAL	ITEM No.	PART No.	DESCRIPTION	QTY.	MATERIAL
	395-06	22" (559mm), HDPE DR 32.5, BUTT FUSED END		HDPE	26	395-253	TIE UP RAIL BLOCK	146	ROUGH CUT FIR
	395-06	CAPS, FILLED WITH ROUND TYPE 2 KOROFLOAT FOAM	28	HUPE	27	395-254	TIE UP RAIL END	2	ROUGH CUT FIR
	395-244	CONNECTOR BACKING PLATE	2	44W/300W	28	395-252	TIE UP RAIL SIDE	56	ROUGH CUT FIR
	395-206	END FLOAT FOOT	4	5052-H32	29	395-208	TIMBER WASHER 1/2"	292	GALVANIZED
	395-145	FLOAT GAP FILLER ANGLE	12	44W/300W	30	395-144	TRANSITION CONNECTOR PLATE	2	44W/300W
	395-131	FRAME WELDMENT	14	50W/350W	31	395-272	TRANSITION CONNECTOR SPACER BLOCK	2	44W/300W
	395-42	GRATING - ROUND HOLE 12" x 1-1/2", 13 GA	168	STEEL	32	395-271	TRANSITION CONNECTOR STIFFENER	2	44W/300W
			120	A513 1026 DOM (3"	33	395-152	TRANSITION HINGE SHAFT	2	44W/300W
	395-56	HINGE BODY	120	x 1.75") OR EQUIVALENT	34	395-163	TRANSITION KEEPER PIN	4	304 SS
				MD FILLED NYLON					
	395-57	HINGE BUSHING	120	2" x 1-1/2"	35	395-153	TRANSITION PLATE	2	44W/300W
	395-52	HINGE PIN	48	316 SS	36	395-281	TRANSITION PLATE SUPPORT ANGLE	2	44W/300W
)	395-58	HINGE SPACER SHIM	120	44W/300W	37	395-44	UHMW BOTTOM SHOE	52	BLACK UHMW
L	281-95	KEEPER PIN	48	304 SS	38	395-207	UHMW END FOOT SHOE	4	BLACK UHMW
2	395-138	MOUNTING PLATE INNER	54	44W/300W	39	395-66	UHMW WEAR PLATE SIDE	16	BLACK UHMW
3	395-136	MOUNTING PLATE OUTER	56	44W/300W	40	395-67	UHMW WEAR PLATE OUTER	24	BLACK UHMW
t	395-241	PIPE END STOP	112	44W/300W	41	395-146	WALE BOARD END	2	ROUGH CUT FIR
5	395-62	PILE GUARD CHANNEL	16	44W/300W	42	395-151	WALE BOARD LONG SIDE	40	ROUGH CUT FIR
5	395-63	PILE GUARD MOUNTING CHANNEL	8	44W/300W	43	395-147	WALE BOARD SHORT SIDE	16	ROUGH CUT FIR
7	395-164	PILE GUARD MOUNTING PLATE	16	44W/300W	44	395-148	WALE BOARD HOOP OUTSIDE	8	ROUGH CUT FIR
3	395-61	PILE GUIDE GUARD	8	44W/300W	45	395-149	WALE BOARD HOOP SIDE	16	ROUGH CUT FIR
)	395-168	PILE HOOP MOUNT PLATE	28	44W/300W	46	395-245	ZINC ANODE 3LB	28	MARTYR CM706 OF
)	395-142	PIPE INNER BRACKET LEFT	28	5052-H32		000 210			EQUIVALENT
L	395-142	PIPE INNER BRACKET RIGHT	28	5052-H32					
2	395-242	PIPE MID-SUPPORT	28	50W/350W					
3	395-137	PIPE SUPPORT	28	5052-H32					
1	395-141	STAINLESS WEAR PLATE	224	304 SS					
-	395-43	STRAP	28	316 SS					

								1
	DIMENSIONS ASME Y14.5M X/X = ± 1/8" .X = ± 0.1"		CLIENT CITY OF CAMPBELL RIVER	CF	R Engineerir	ıg Inc.		A
	.XX = ± 0.01"			TITLE:				
	.XXX = ± 0.001"				S BILL OF MA	TEDIALC		l
	ANGLES = 3 °		PROJECT					1
		J KING 27/02/2018	BIG ROCK BOAT RAMP	FOR ALL 14 FLOATS				
	This design and drawing are t	he property of CR Engineering	GALVANIZED STEEL DOCKS				-	l
	Inc. and may not be reproduc		GALVAINIZED STEEL DUCKS	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV	l
	CR Engineering Inc. written p	ermission.		395	395-400	9 OF 26	A	l
6	5	1 4	3	2		1		

 8	7	6		5	4			3
	DPE DR 32.5, BUTT FL DALE UTLILITY PRODU		ITH ROUND	TYPE 2 KOROFL	OAT FOAM			
_		 						
	-			— 231" OUTSIDE V	WITH END CAPS –			
	I							
				IENSIONS ASME Y14.5M		CLI	ENT	
				X/X = ± 1/8" .X = ± 0.1"			CITY OF (CAMPBELL RIV
				.XX = ± 0.01" .XXX = ± 0.001" NGLES = 3°				
			DIM	IENSIONS - INCH	J KING 27	E /02/2018	BIG RO	CK BOAT RAMI
			This Inc. CR	design and drawing are and may not be reprod Engineering Inc. written	e the property of CR Englished or used without permission.	gineering	GALVANI	ZED STEEL DOC
 8	7	6		5	4			3

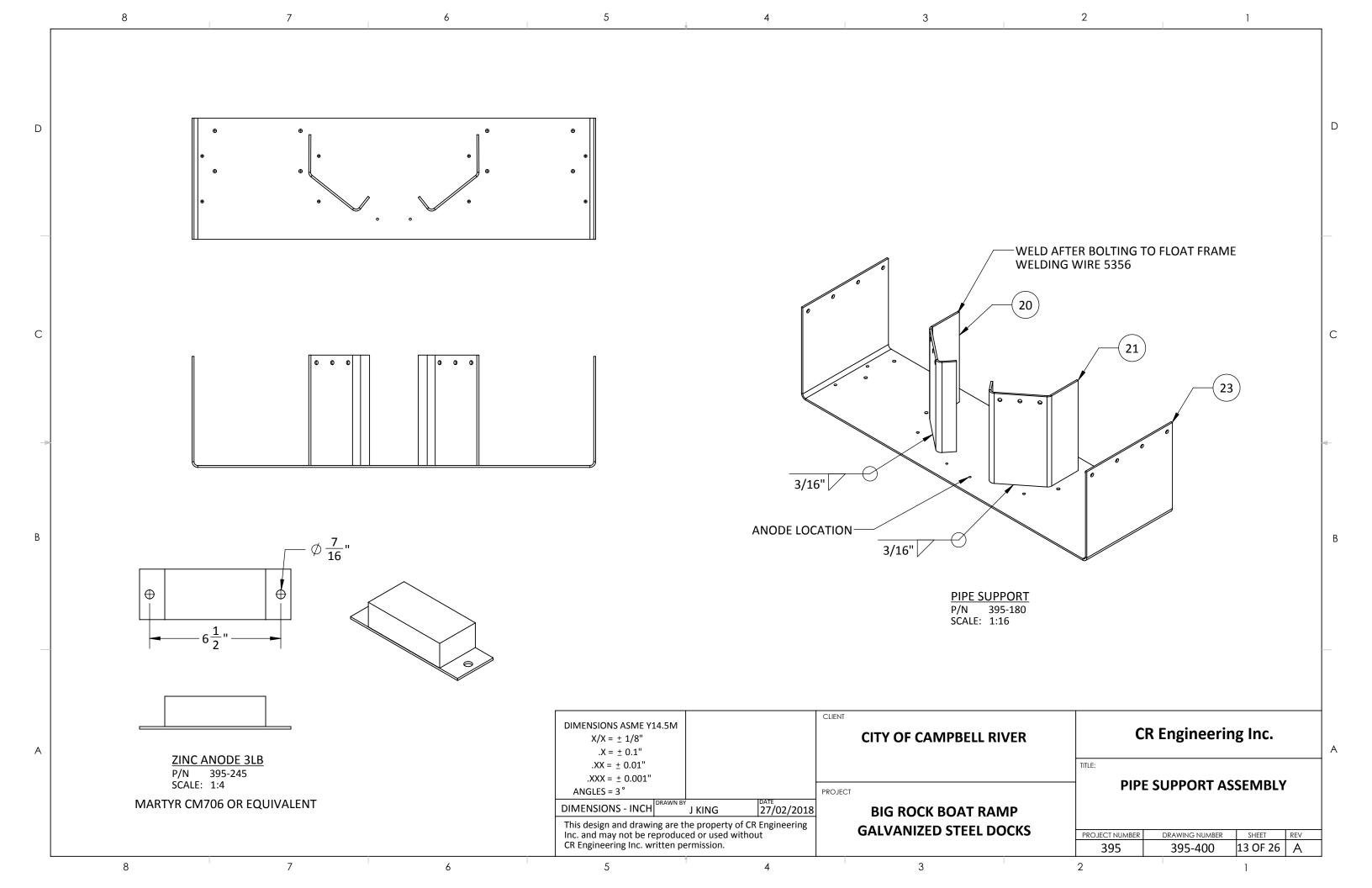






А

8	7	6	5	4 3	2	
		$12" \qquad \qquad$				D
		3" 	5°	END FLOAT FOOT		С
			$-26\frac{1}{8}$ "	END FLOAT FOOT P/N 395-206 SCALE: 1:8		-
				" <u>9</u> 16		В
			DIMENSIONS ASME Y14.5M $X/X = \pm 1/8"$ $.X = \pm 0.1"$ $.XX = \pm 0.01"$	CLIENT CITY OF CAMPBELL RIVER	CR Engineering Inc.	A
			.XXX = ± 0.001" ANGLES = 3 ° DIMENSIONS - INCH DRAWN BY J KING This design and drawing are the property of CR Inc. and may not be reproduced or used without CR Engineering Inc. written permission.	PROJECT 27/02/2018 Engineering ut BIG ROCK BOAT RAMP GALVANIZED STEEL DOCKS	END FLOAT FOOT PROJECT NUMBER DRAWING NUMBER SHEET REV 395 395-400 12 OF 26 A	
8	7	6	5	4 3	2 1	





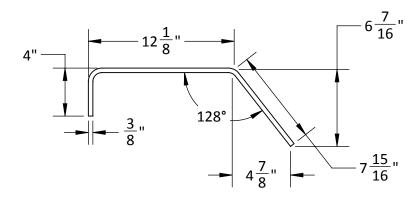


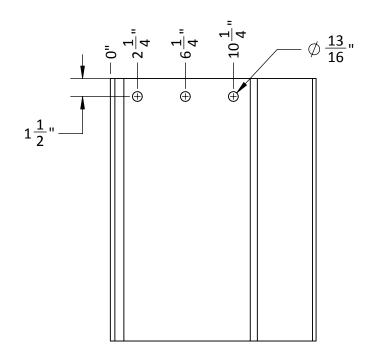


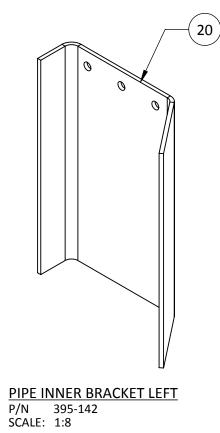
С

В

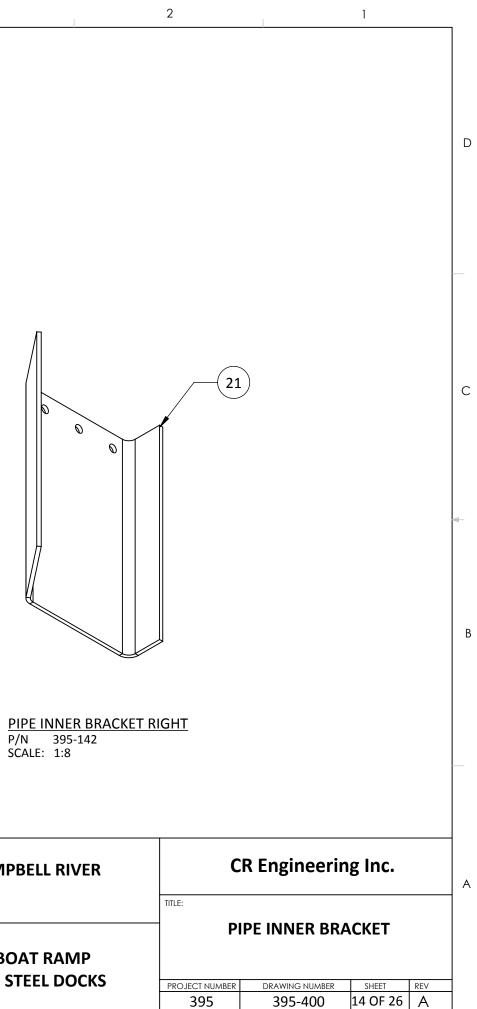
А

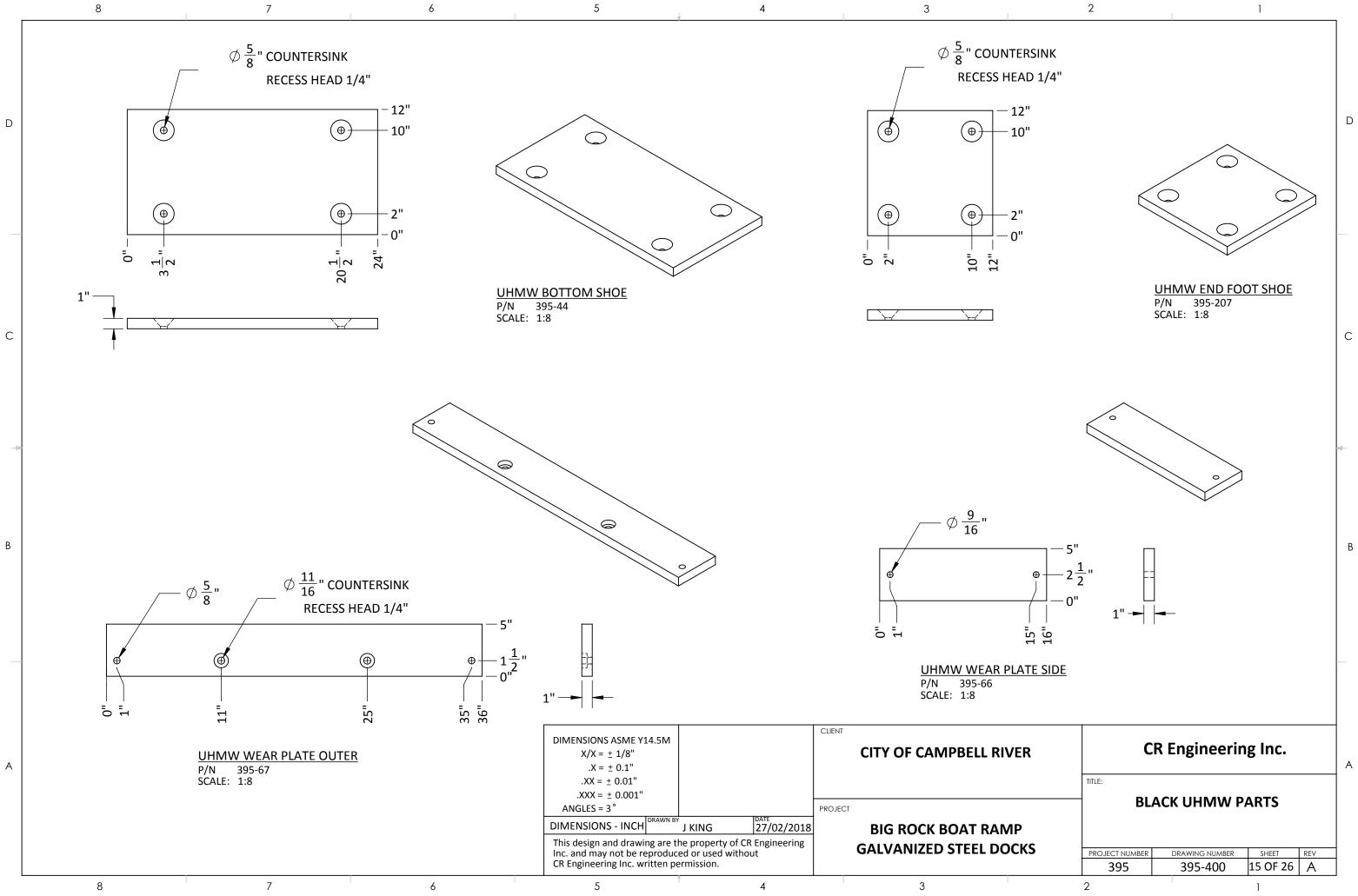


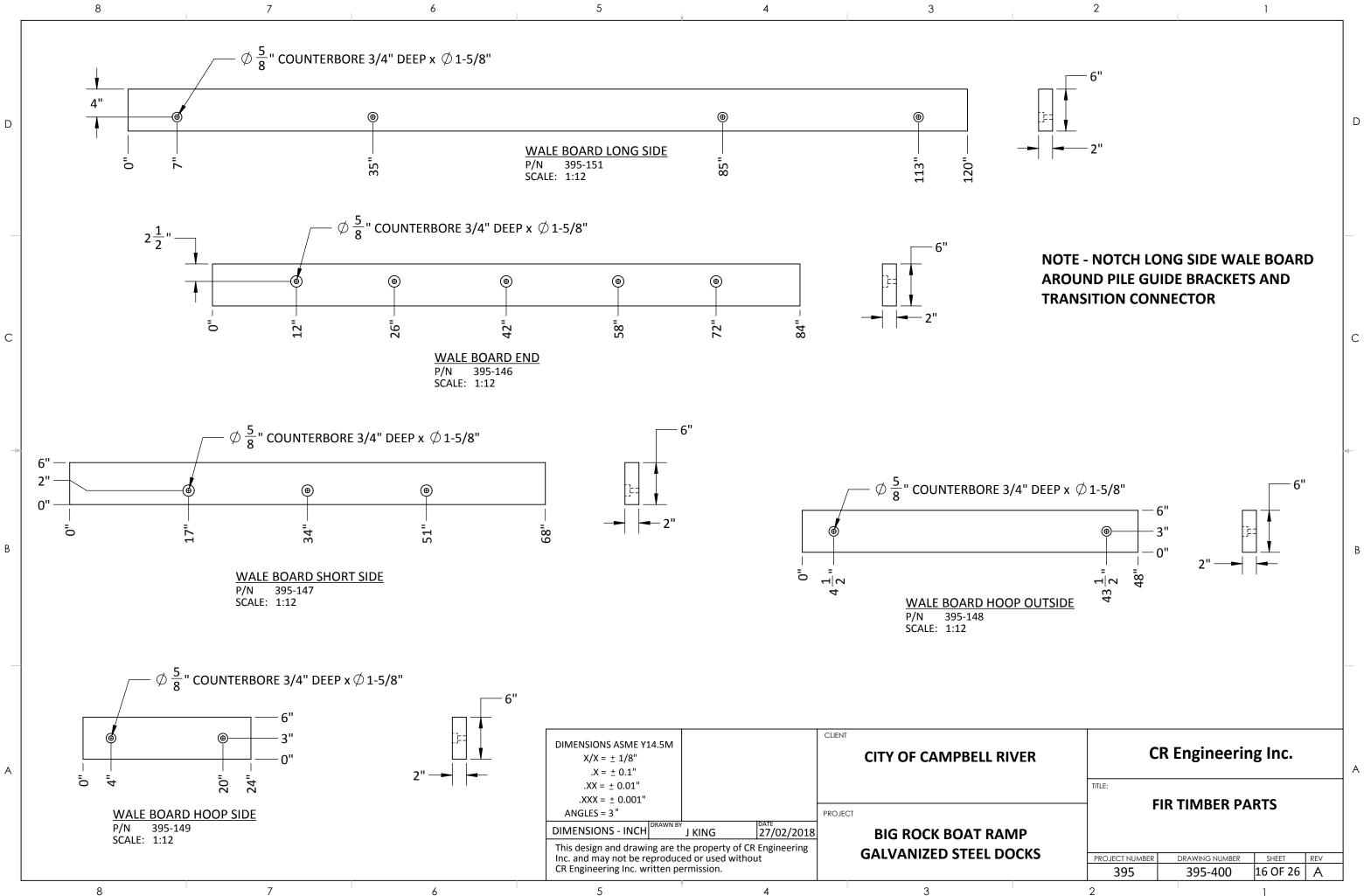


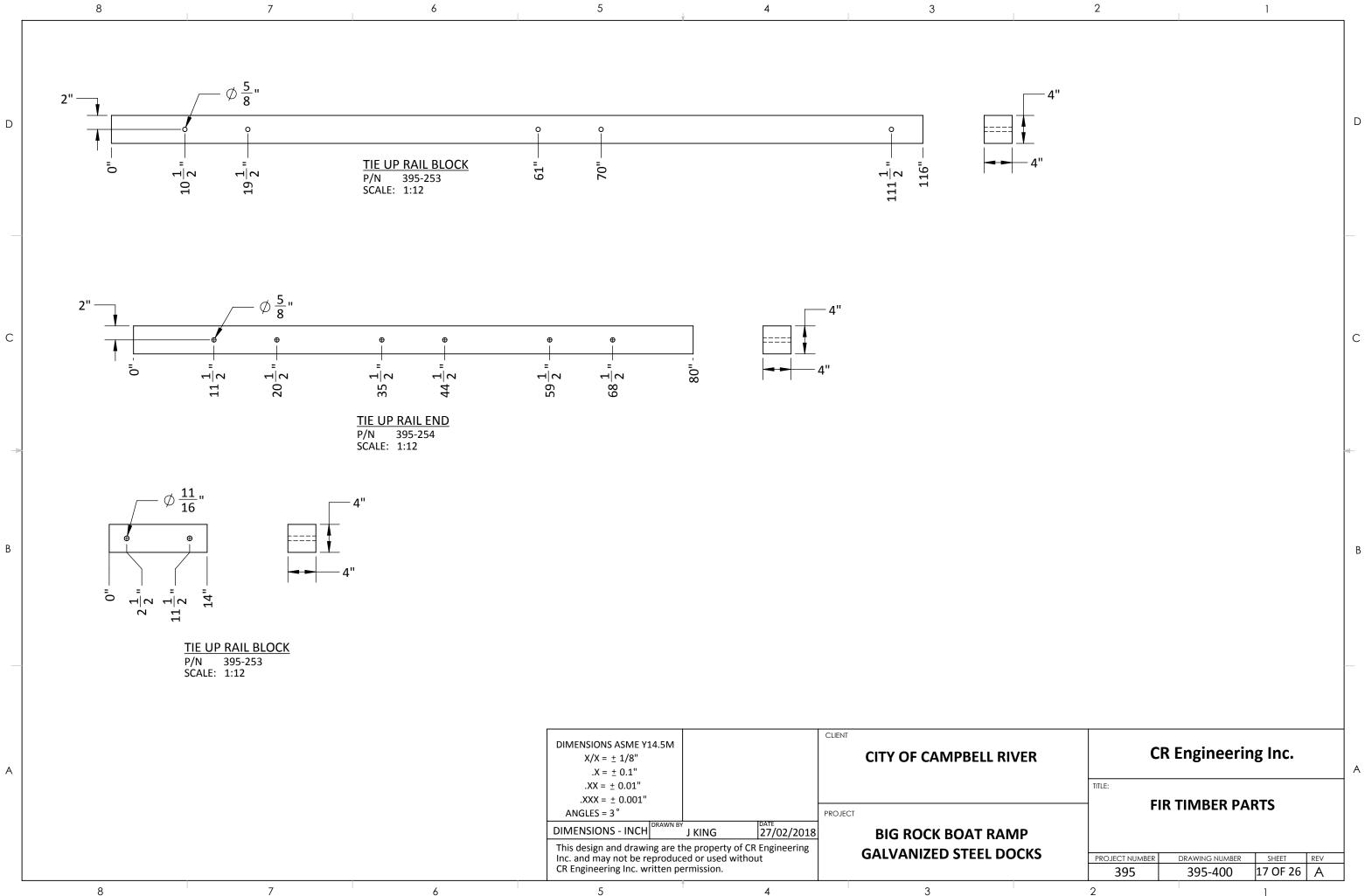


CITY OF CAMPBELL RIVE	CLIENT			DIMENSIONS ASME Y14.5M X/X = ± 1/8" .X = ± 0.1" .XX = ± 0.01" .XXX = ± 0.001" ANGLES = 3°					
BIG ROCK BOAT RAMP	PROJECT	DATE 27/02/2018	J KING	DIMENSIONS - INCH					
GALVANIZED STEEL DOC		of CR Engineering without	ced or used with	This design and drawing are the Inc. and may not be reproduce CR Engineering Inc. written per					
3	Ì	4	Ť		6	Ĩ	7	8	8





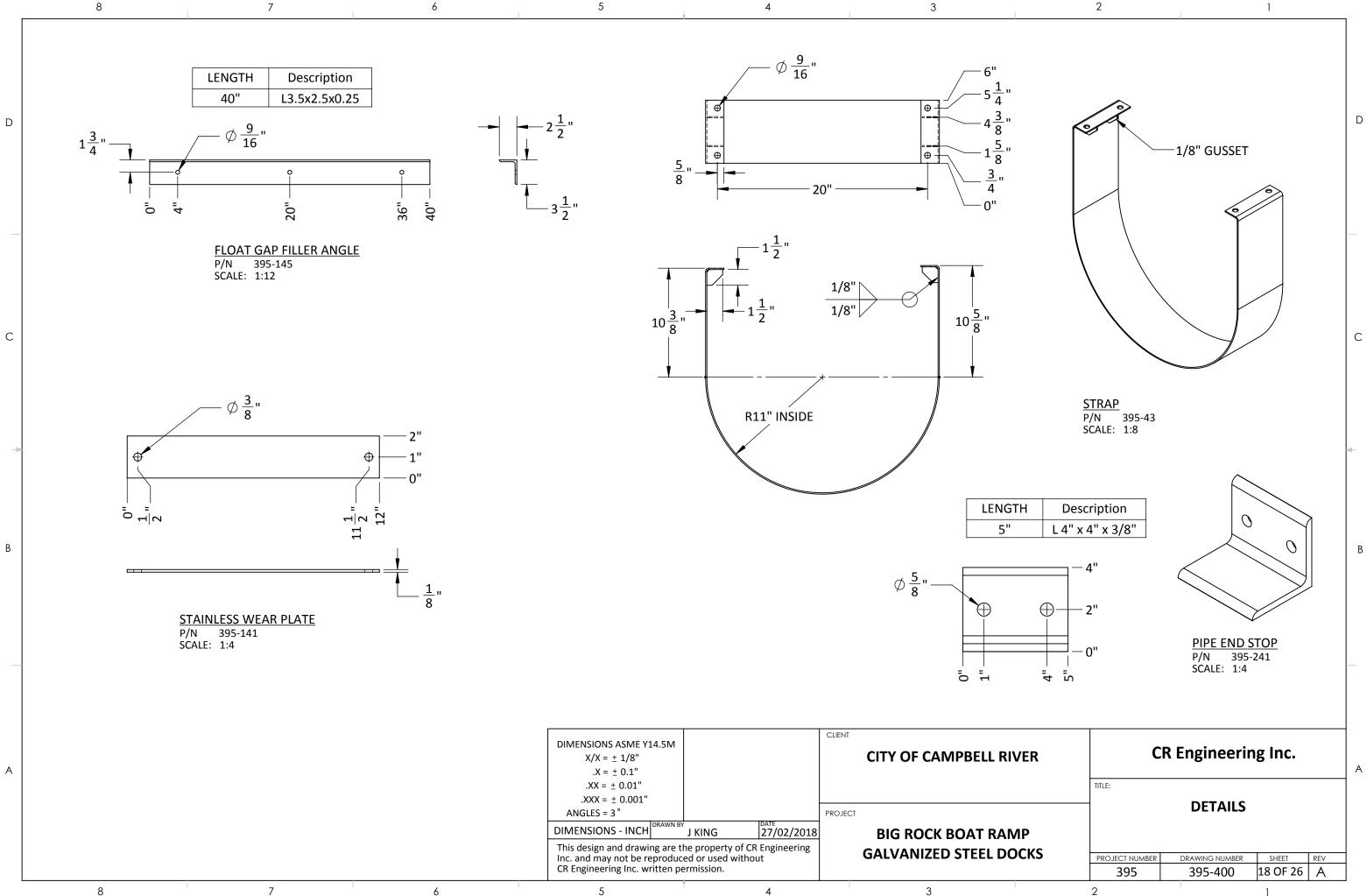


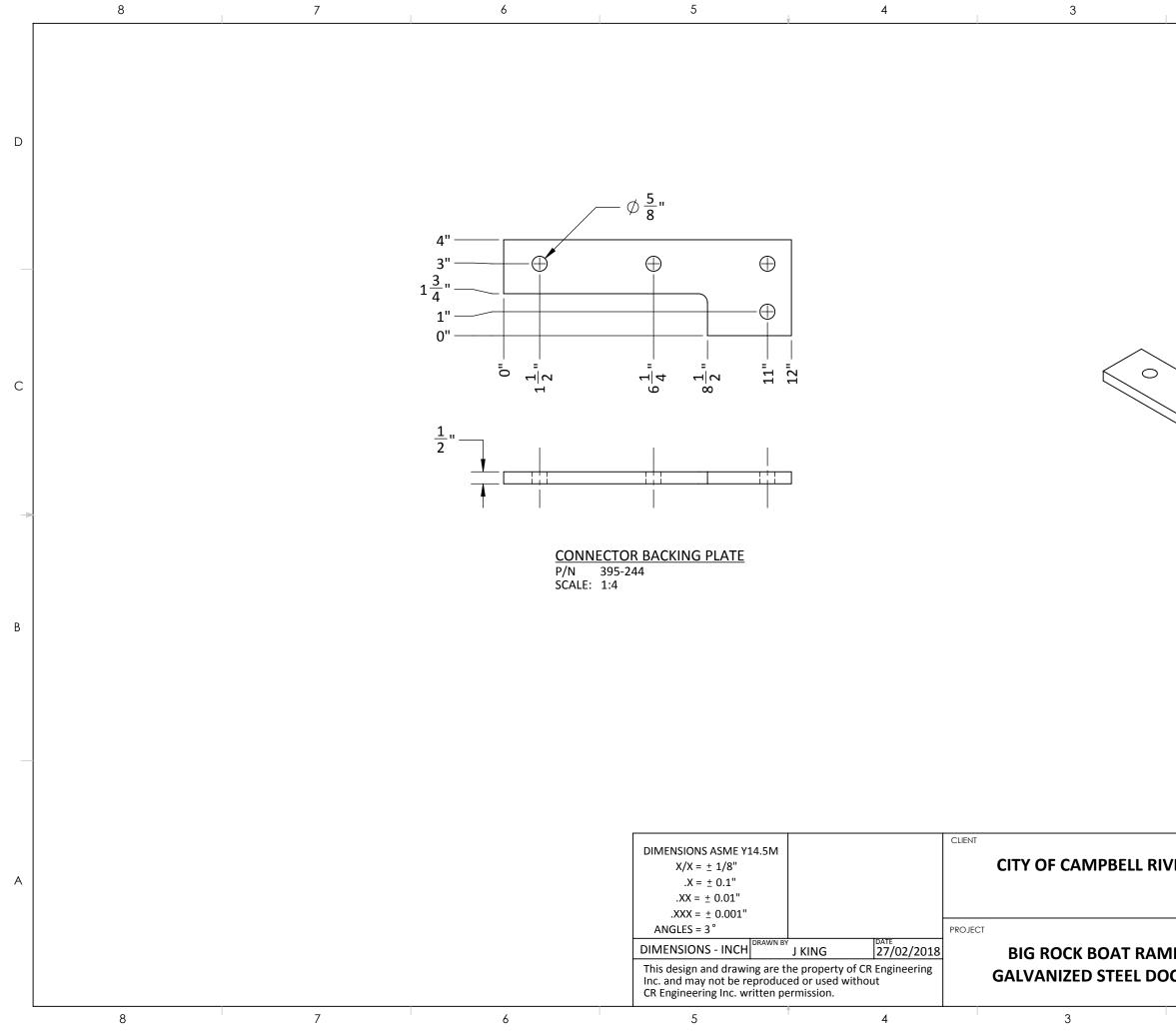




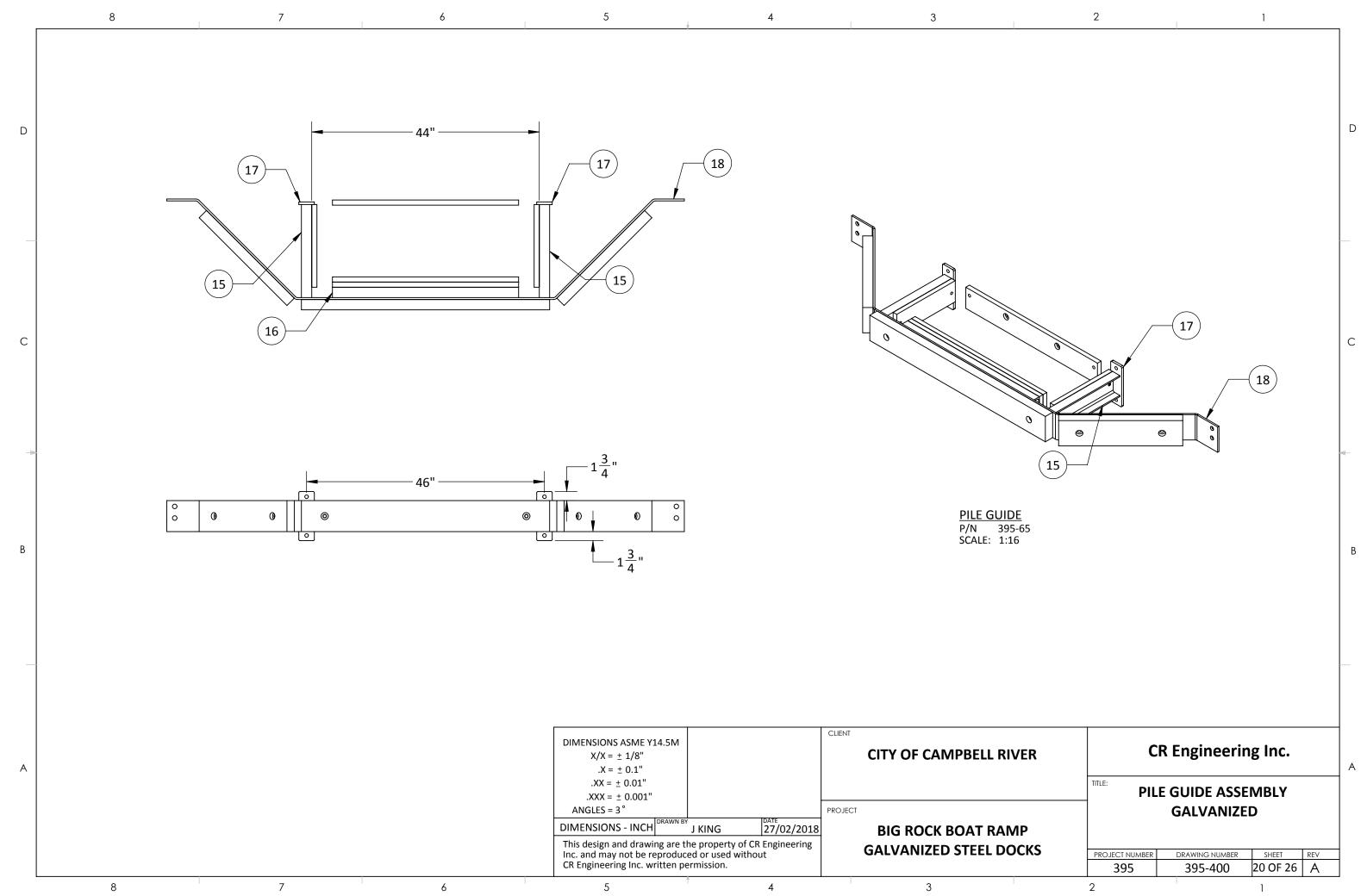
В

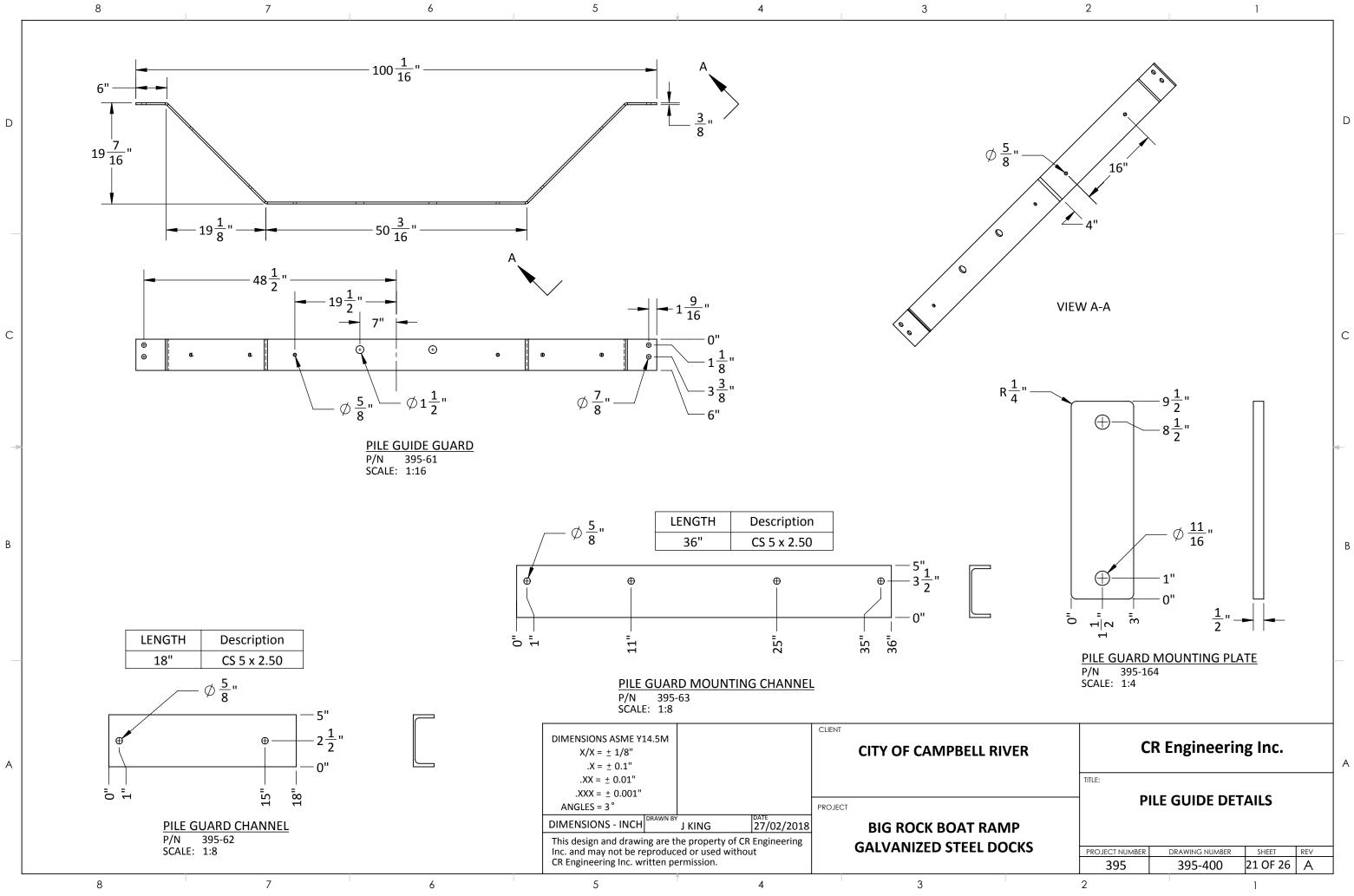
А





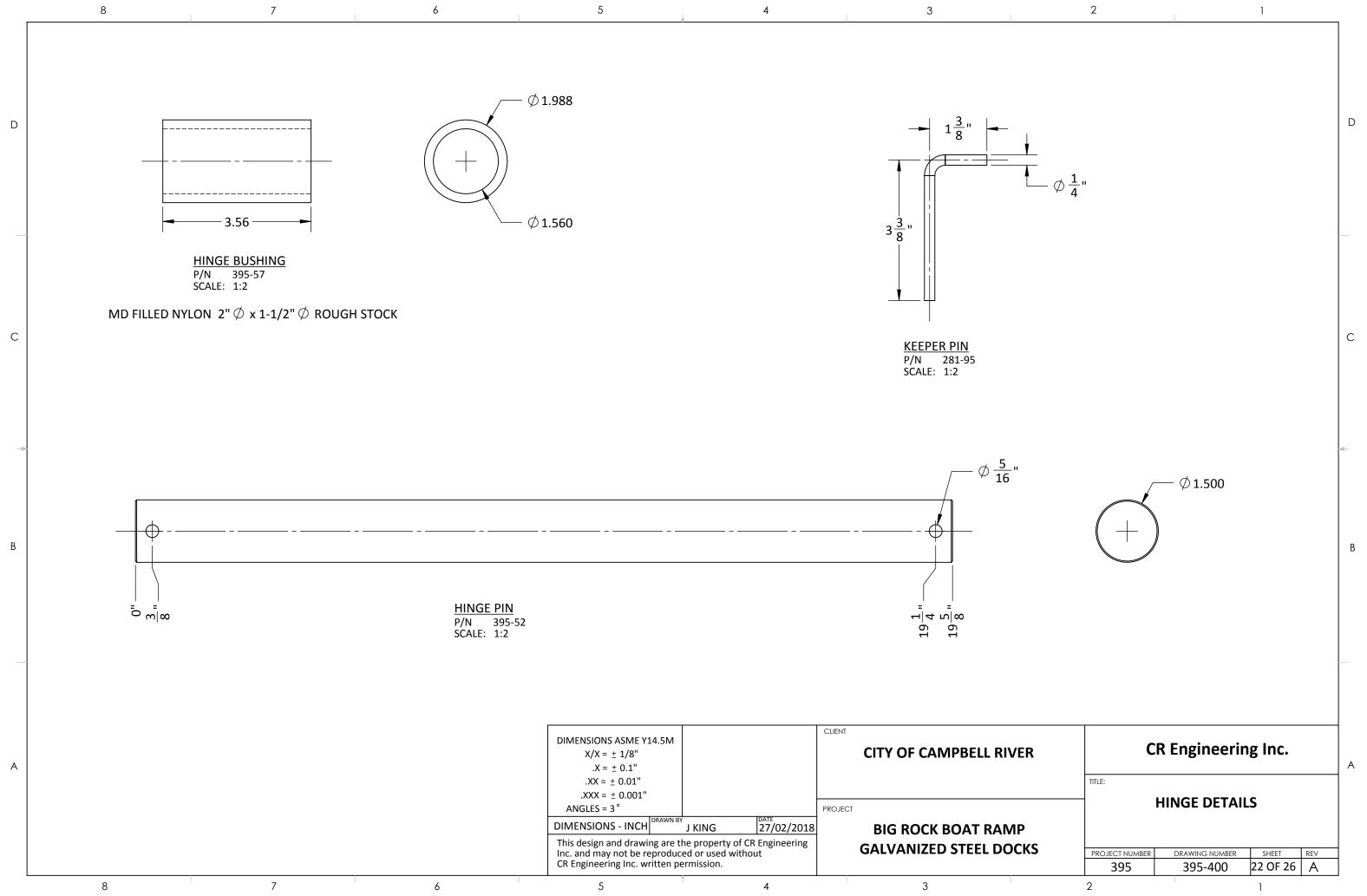
1	2 1	
		D
0		С
		B
VER MP	CR Engineering Inc.	A
DCKS	PROJECT NUMBER DRAWING NUMBER SHEET REV 395 395-400 19 OF 26 A	



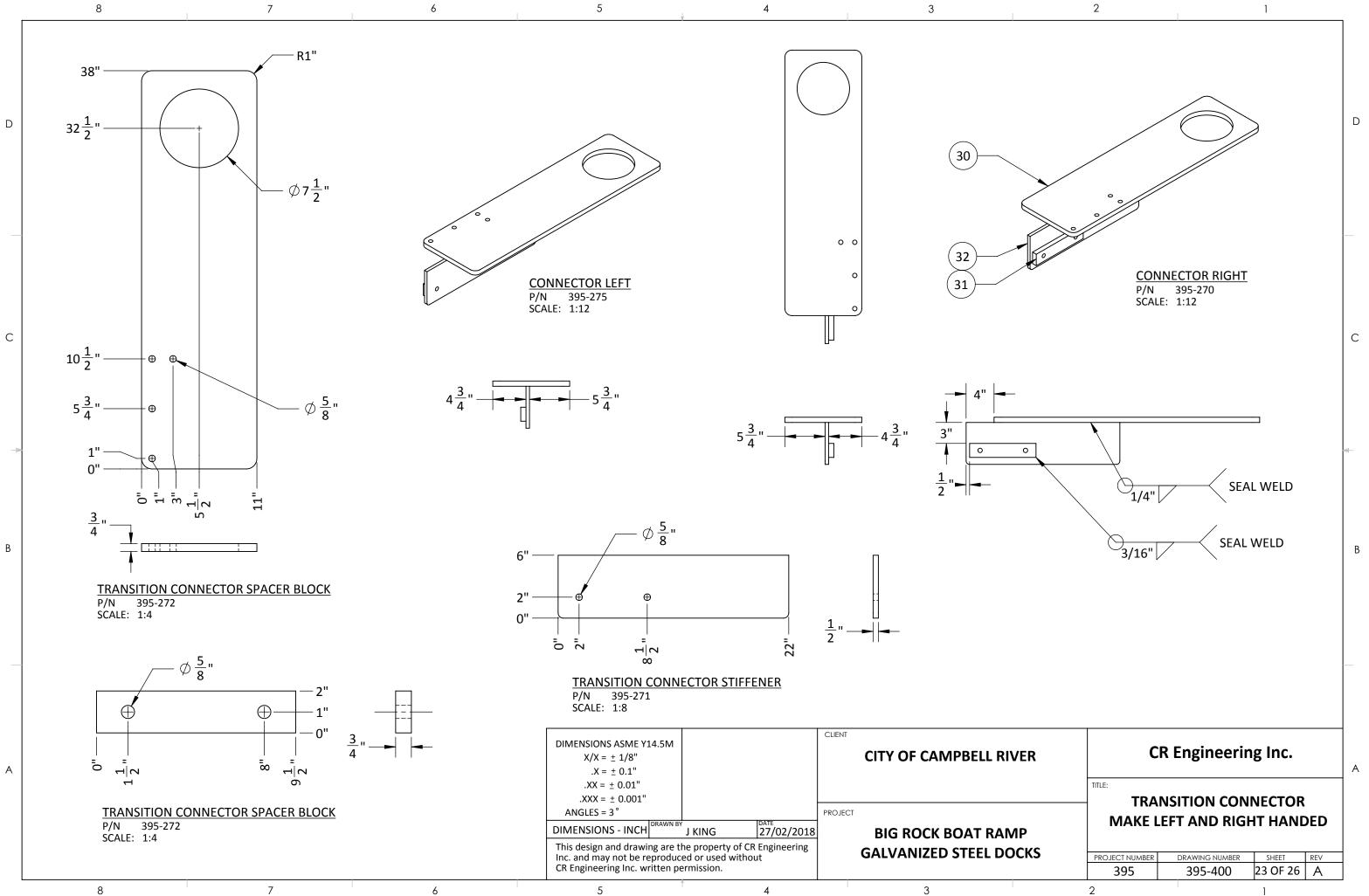


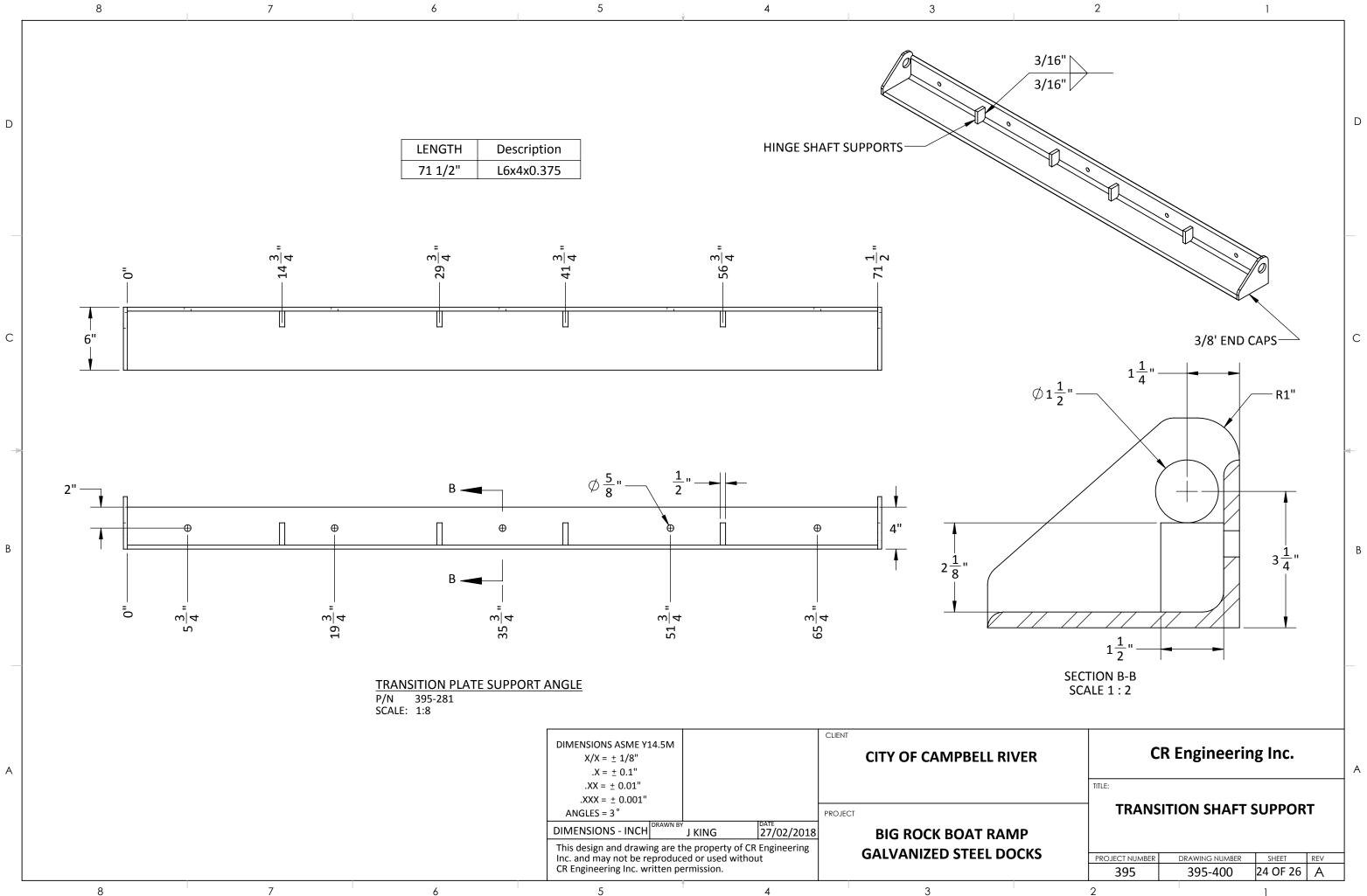


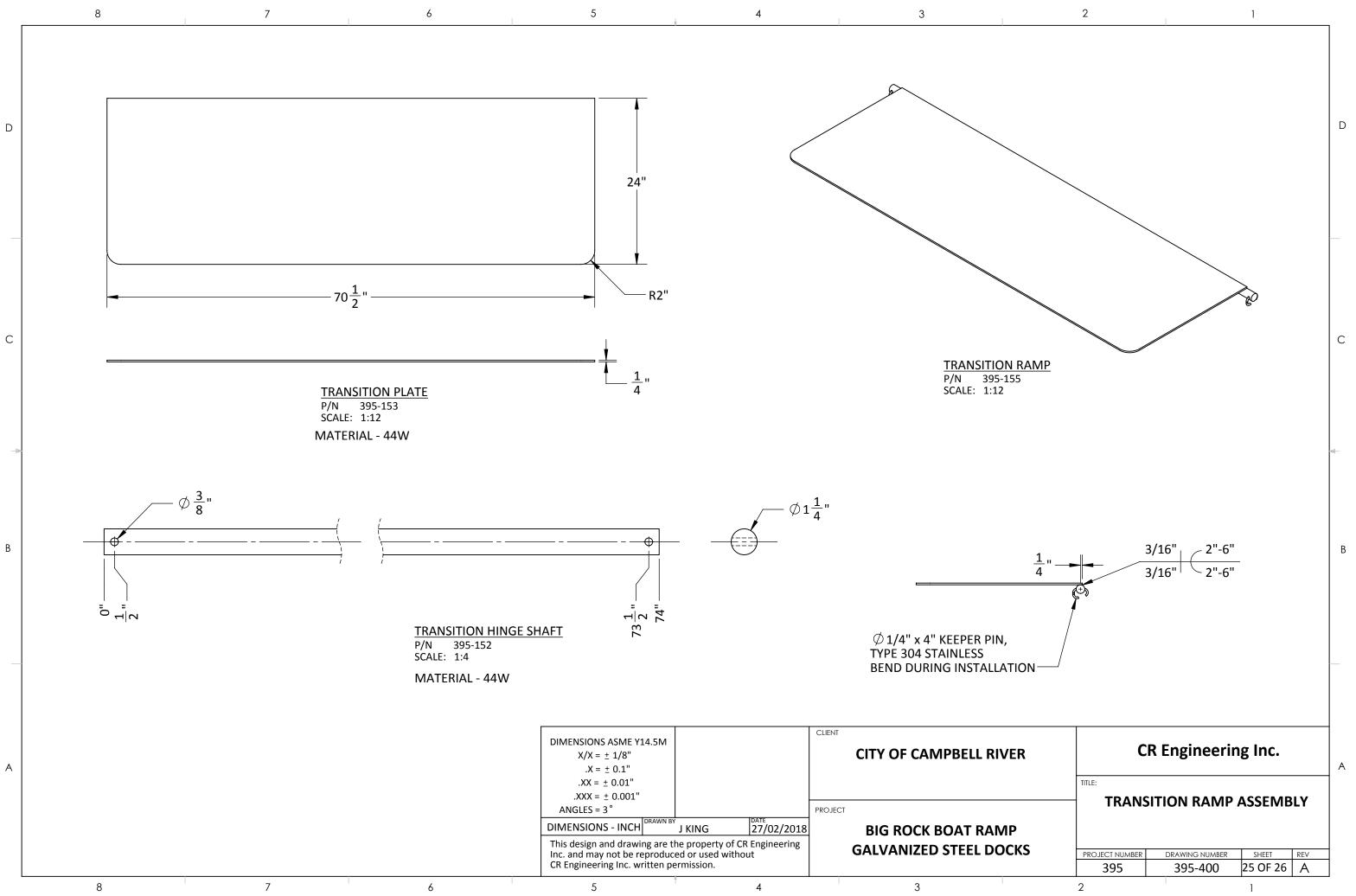
1P				
CKS	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV
	395	395-400	21 OF 26	А
			1	

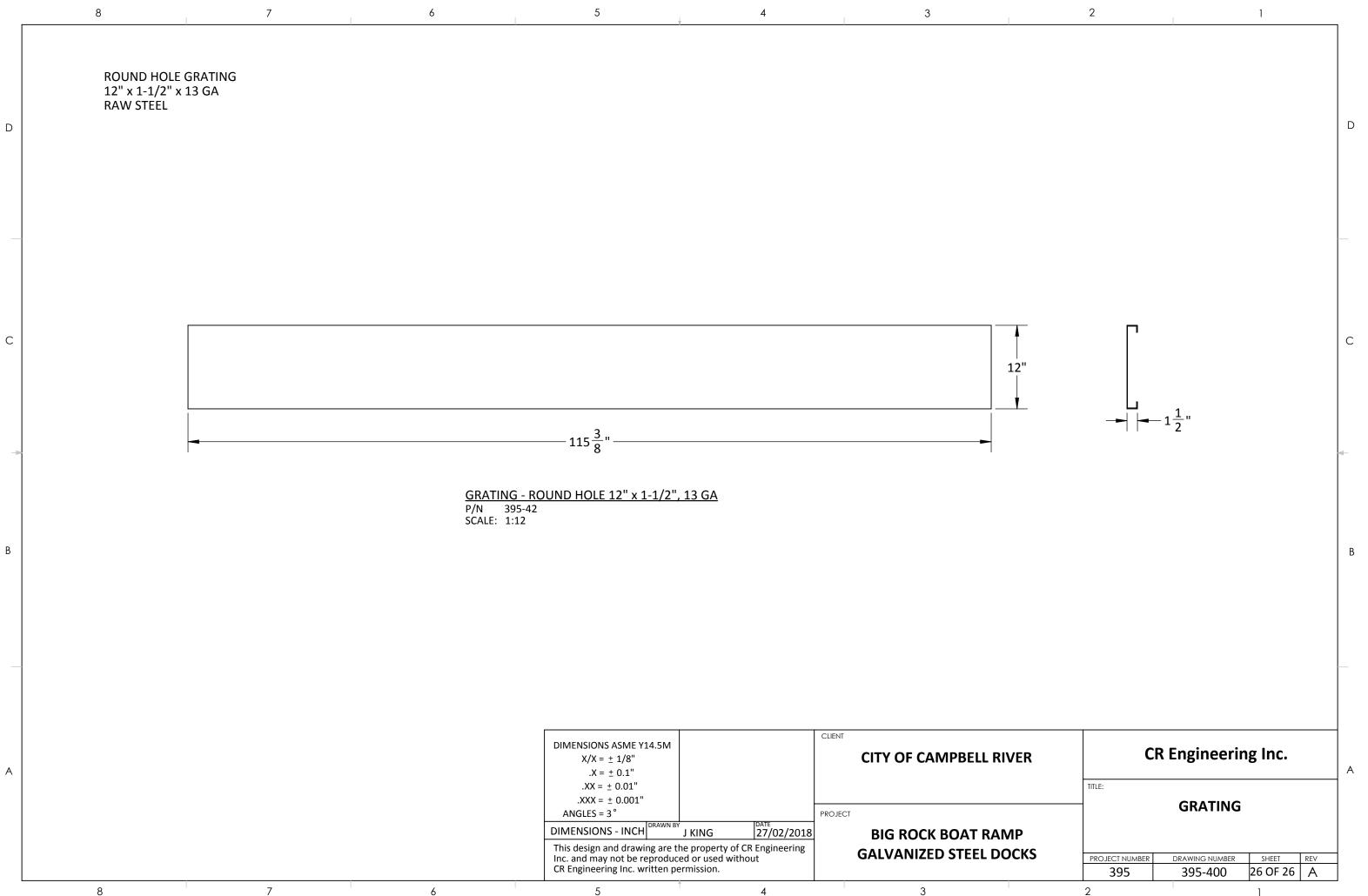


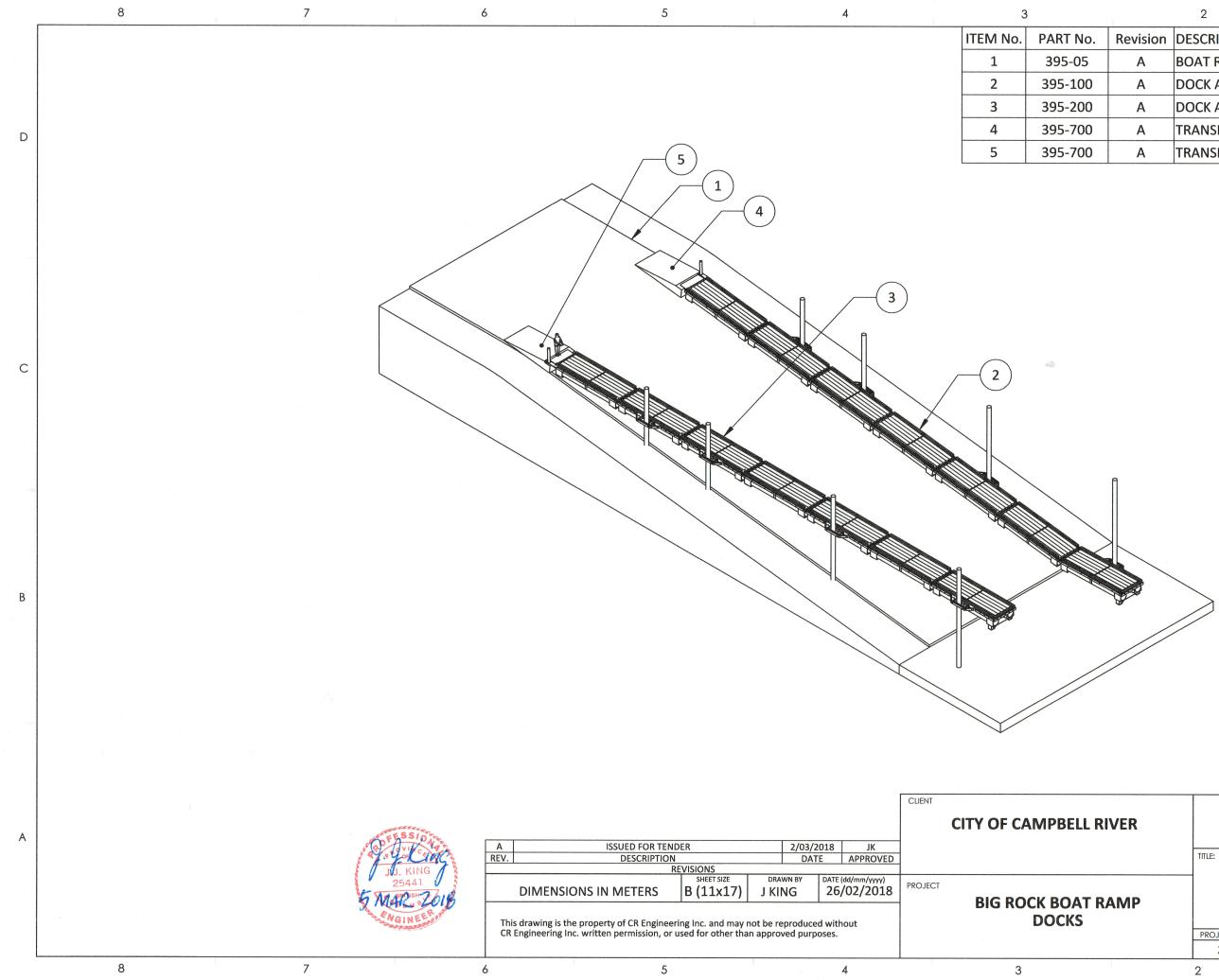
)				
CKS	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV
	395	395-400	22 OF 26	Α
			· _	•











	2 1	
Revision	DESCRIPTION	QTY.
А	BOAT RAMP	1
А	DOCK ASSEMBLY LEFT SIDE	1
А	DOCK ASSEMBLY RIGHT SIDE	1
А	TRANSITION RAMP ASSEMBLY LEFT	1
А	TRANSITION RAMP ASSEMBLY RIGHT	1

С

В

ER	С	R Engineerin	g Inc.		A							
	TITLE:											
	GENERAL ARRANGEMENT											
	GEN											
ЛР												
	PROJECT NUMBER	DRAWING NUMBER	SHEET	REV								
	395	395-1000	1 OF 4	A								

	8		7	6		5	4		1	3		2	1		
					÷		·			ITEM	No. PART No.	Revisio	n DESCRIPTION	QTY.	
										1	395-400	A	SHORE FLOAT LEFT	1	l
										2	395-400	A	MID-FLOAT	3	1
										3	395-400	A	MID-FLOAT NO HOOP	2	1
D										4	395-400	A	OUTSIDE FLOAT LEFT	1	D
C B												3			C
A					DIMENSIONS IN MET This drawing is the property of CF CR Engineering Inc. written perm			/mm/yyyy) 2/2018 ut	CITY OI	F CAMPBEL ROCK BOAT DOCKS	RAMP		CR Engineering	r side	A
					CR Engineering Inc. written perm	ission, or used for other that	an approved purposes.					PROJECT N		SHEET REV 2 OF 4 A	
	8	Ì	7	6		5	* 4	I	Ì	3	Ì	2	1		

	8	7	6	5	4		3	I	2	1	
[· · ·	· · · · ·		~	ITI	M No. PA	RT No. R	evision DESCRIPTION		QTY.
							1 39	5-400	A SHORE FLOAT RIGHT		1
								5-400	A MID-FLOAT NO HOOP		2
								5-400	A MID-FLOAT		3
D							4 39	5-400	A OUTSIDE FLOAT RIGH	Г	1
С					3	3					
В								3	-1		
A					DRAWN BY DATE (dd/mm/yyyy) J KING 26/02/2018	CLIENT CITY OF C			CR Enginee		
				ONS IN METERS B (11x17) he property of CR Engineering Inc. and may r nc. written permission, or used for other tha	I	BIG RO	CK BOAT R DOCKS	AMP	PROJECT NUMBER DRAWING NUMB 395 395-100		REV A
l	8	7	6	5	⁺ 4	3		Ì	2	1	

