



REQUEST FOR TENDER No. 22-003

Chase River Pump Station Upgrades

Addendum 4

Issued: February 28, 2022

Closing Date & Time: on or before 3:00 PM Pacific Time on March 3, 2022

This addendum shall be read in conjunction with and considered as an integral part of the Request for Tender. Revisions supersede the information contained in the original Tender or previously issued Addendum. No consideration will be allowed for any extras due to any Vendor not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

Tender Addendum – Responses to Further Questions

1. **Question:** Note 2 on drawing CRPS-M-216 indicates that the pump mounting plate is to be fabricated from “ASTM C1045” plate. Can you please confirm if this is correct?

Answer: The reference to “ASTM C1045” is an error. Please assume the pump mounting plate is fabricated from ASTM A36 plate instead. See corrected redline version of drawing CRPS-M-216 Rev 1 attached.

2. **Question:** In reference to Chase River PS Bypass Strategy the bypass system requirements indicate a maximum flow of 400 l/s with a redundancy of 100% this requirement seems to conflict with the pump selection criteria which indicates 2 pumps with tie in to 2 locations with flow capacities of 200 l/s each. Please clarify that the tender price is to be based on 2 pumps with a capacity of 200 l/s each.

Answer: The bypass system is to be designed for a maximum flowrate of 400 l/s. The bypass strategy presented by the RDN’s Engineer is based on 2 duty pumps running in parallel. Each duty pump in this case has a capacity of 200 l/s. The Contractor may propose an alternative combination of duty pumps that meet the stated system maximum flow rate. The requirement for 100% redundancy means backup replacement pumps must be readily available on site to quickly replace duty pumps in the case of a pump failure (installed standby pump redundancy is not mandatory). 2020/2021 average monthly CRPS wastewater flows for July/August have been 31 l/s, with average 26.5 l/s minimum and 36.6 l/s maximum. Peak instantaneous flows can exceed these values.

3. **Question:** Description of Work 4.16 requires that the bypass system requires monitoring 24 hours per day, can the RDN confirm that required call out alarms be routed to the existing CRPS alarm system and programmed to notify the contractor 24 hours per day?

Answer: *The Contractor will be fully responsible for independently monitoring and responding to all temporary pump bypass system call out alarms, 24 hours per day/7 days per week. The Contractor must not rely on the existing CRPS alarm paging system for notifications.*

4. **Question:** Chase River PS Bypass Strategy notes the pumps are to be monitored continuously while in operation and the connection piping checked hourly. Does this require the tender price to include 24/7 on site watchperson or is it the RDN's intent that the adequately restrained and connected piping be checked hourly during working hours while the crew is on site. Please clarify the RDNs requirements.

Answer: *24 hours per day/7 days per week on site monitoring is required to ensure immediate response to any temporary pump bypass system problems. With reference to item 4.9 of the Description of Work regarding site security, note that RDN is aware that members of the public have been observed on the Chase River Pump Station property after hours. 24/7 construction site monitoring will cover the requirements of both 4.9 and 4.16 of the Description of Work.*

5. **Question:** Description of Work 4.10 is related to the provisions of temp power noting that RDN can only provide limited 110VAC single phase power. Can the RDN confirm it will provide electrical power if the contractor chooses by its means and methods per CEC requirements to connect to the existing 600 VAC 3 ph MCC-100 (complete with existing fully functional standby provisions) for all temporary power requirements for trailers, welding and pumping of any kind?

Answer: *The Contractor can choose to make connections to existing 600 V 3-phase MCC-100 to support site services and/or backup pumping. If the Contractor proposes to connect to MCC-100 for temporary power, the Contractor shall submit a temporary power connection plan for RDN review and approval. The temporary power connection plan shall include a single line diagram with cable sizes, protective device types and ratings, expected loads, and other relevant information. The temporary power connection shall be designed and installed in accordance with the Canadian Electrical Code, and shall not affect the reliability of the existing facilities. Any temporary power connections to MCC-100 or other existing plant electrical equipment shall be performed under the supervision of the RDN. The RDN will not charge the Contractor for electrical power consumed by the Contractor's temporary power system.*

If MCC-100 is used for backup pumping and site services, the Contractor will be responsible for coordinating any electrical power outages required for MCC-100 modifications that are part of the scope of work.

The performance and reliability of existing MCC-100 and the backup power systems (generator, ATS, etc.) are not guaranteed by the RDN. The Contractor shall release the RDN

from any costs or expenses caused by the reliability or failure of the existing CRPS electrical system.

6. **Question:** Please confirm consent of surety agreement to bond is not required for tender submission.

Answer: *Bonds do not need to be submitted with tenders on March 3, 2022. As per article 17 of the Instructions to Tenderers: "Upon Notice of intent to award, the successful tenderer is required to provide a performance bond and a labour and material payment bond, each in the amount of 50% of the total stipulated contract price".*

7. **Question:** In reference to General Terms and Conditions of the Contract Part 15 Damages for Delay. Can the RDN please provide an estimate of its daily costs related to its damages for delay?

Answer: *The text of RDN General Terms and Conditions of Contract Part 15 Damages for Delay is, for the Chase River Pump Station Upgrades project, deleted in its entirety and replaced with:*

"The Contractor shall demonstrate the readiness for material availability, staffing and work execution planning to perform the work within the agreed pump station outage timeframe, at least one calendar week before the agreed pump station outage date. If in the REGIONAL DISTRICT's reasonable opinion, the Contractor has failed to demonstrate sufficient evidence of readiness or preparation, which could reasonably result in the Contractor requiring an outage extension, the REGIONAL DISTRICT reserves the right to delay the pump station outage to no earlier than 1 June 2023 ("Readiness-Related Delay") with no additional cost to the REGIONAL DISTRICT. This is to mitigate the risk to the REGIONAL DISTRICT of an environmental release due to high wastewater flows outside of the planned construction period. The Contractor hereby releases the REGIONAL DISTRICT from any costs or expenses caused to the Contractor because of Readiness-Related Delay."

8. **Question:** The Allnorth E and I Engineering package 2.2.2 notes that the wet well is a Class 1 Div 2 (Zone 2) area. In accordance with CEC CSA 22.1-18 rules 18-150 2c) and 18-152 6. The code allows the use of non-explosion enclosures which would seem to meet the CECs application for CRPS electrical installations. Please confirm that readily available NEMA 4 rated enclosures can be utilized for this project. (line item 22 – 25 on E&I MTO documents).

Answer: *NEMA 4 enclosures are acceptable for junction Boxes JB-101A to -105A, JB-101B to -105B, JB-205 and JB-206 installed in the Zone 2 area.*

9. **Question:** The Allnorth E and I Engineering package cable schedule has several references to Hazardous rated cable gland in the wet well. In regards to Class 1 Div 2 (Zone 2) areas CEC CSA 22.1-18, 18-154 3b) applies to the requirement of seals and 18-152 7. applies the cable gland. Please confirm that for the Class 1 Div 2 (Zone 2) Wet well in this application that unsealed teck connectors rated for Class 1 Div 2 meet the requirements of the design intent. If not, please provide details accordingly.

Answer: *Unsealed hazardous rated cable glands do not meet the design intent. The hazardous rated cable glands in the wet well shall be sealed to ensure that gases do not enter into the non-hazardous area. Regardless of using an explosion-proof or non-explosion proof JB, the cables specified with hazardous rated TECK connectors shall have sealed connectors.*

10. **Question:** Referring to the Allnorth E and I Engineering package 2.2.1.1.9 which notes that cables from MCC-300 to Wet well shall be routed through the bottom of the MCC-300. Does MCC-300 have glanding plate provisions, please provide required details or alternatively confirm that there is the required space for an appropriately grounded, non-sealed teck connector.

Answer: *MCC-300 does not include a bottom gland plate. It is expected that there is sufficient space to install and support a suitable TECK connector.*

11. **Question:** As per Process Piping General specification under Austenitic Stainless Steel Piping 2.1 table notes pipe 50mm and smaller is to be Schedule 40S, although per detailed isometric drawings some drain port locations note SCH 80S. Please confirm if the specification is to be followed or the detailed isometrics.

Answer: *Whenever there is a disagreement between the Drawings and the Specifications, the Drawings shall take precedence.*

12. **Question:** As per Process Piping General specification under Austenitic Stainless Steel Piping 2.1 table 60mm and larger denotes Schedule 10S, although per detailed isometric drawings some line items denote SCH STD or SCH 40S. Please confirm if the specification is to be followed or the detailed isometrics

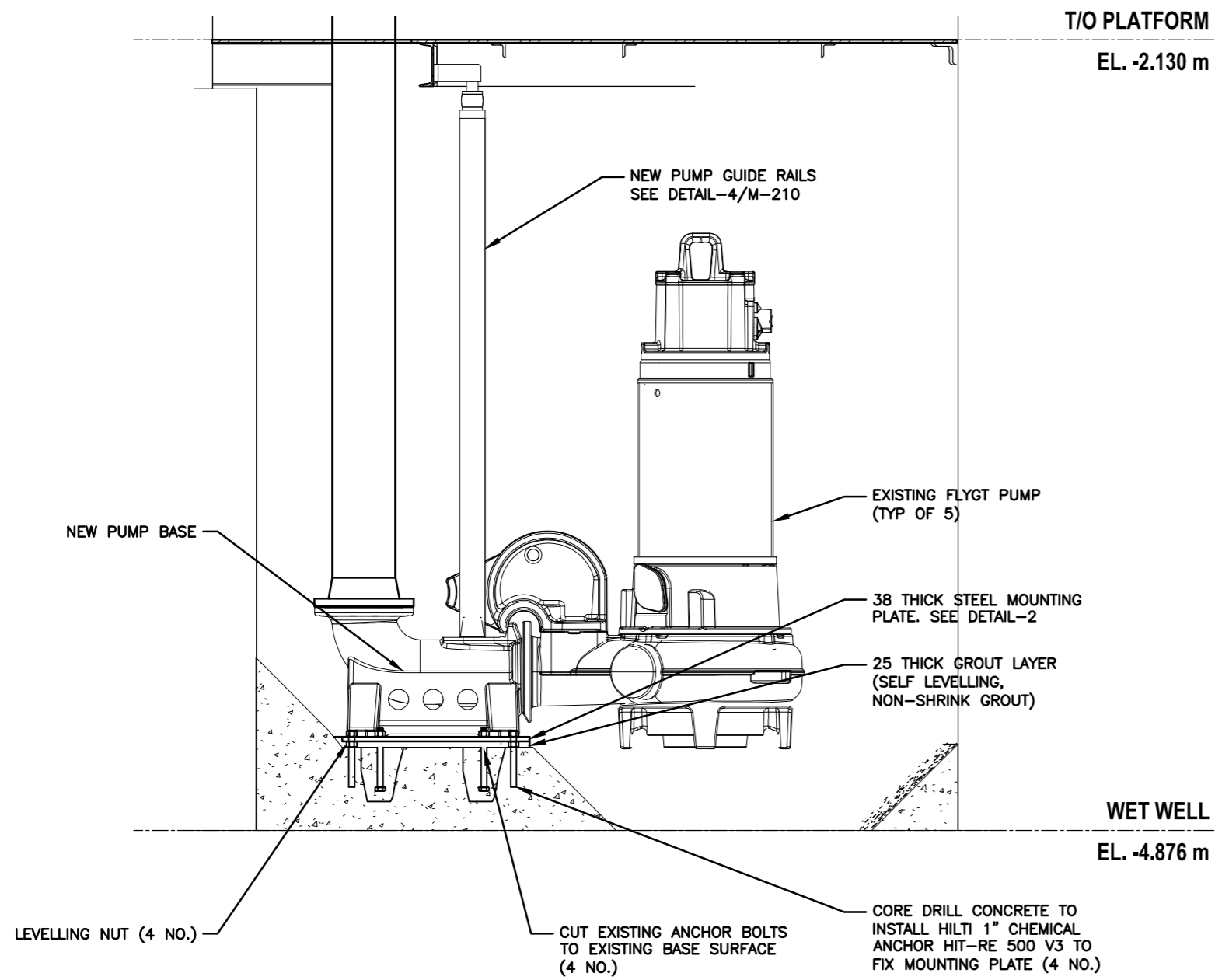
Answer: *Whenever there is a disagreement between the Drawings and the Specifications, the Drawings shall take precedence.*

13. **Question:** In regards to the process piping general specification 1.5.4 please confirm that the stamped IFT drawings include all provisions for seismic, expansion, and pipe stress analysis which has been completed by the designer.

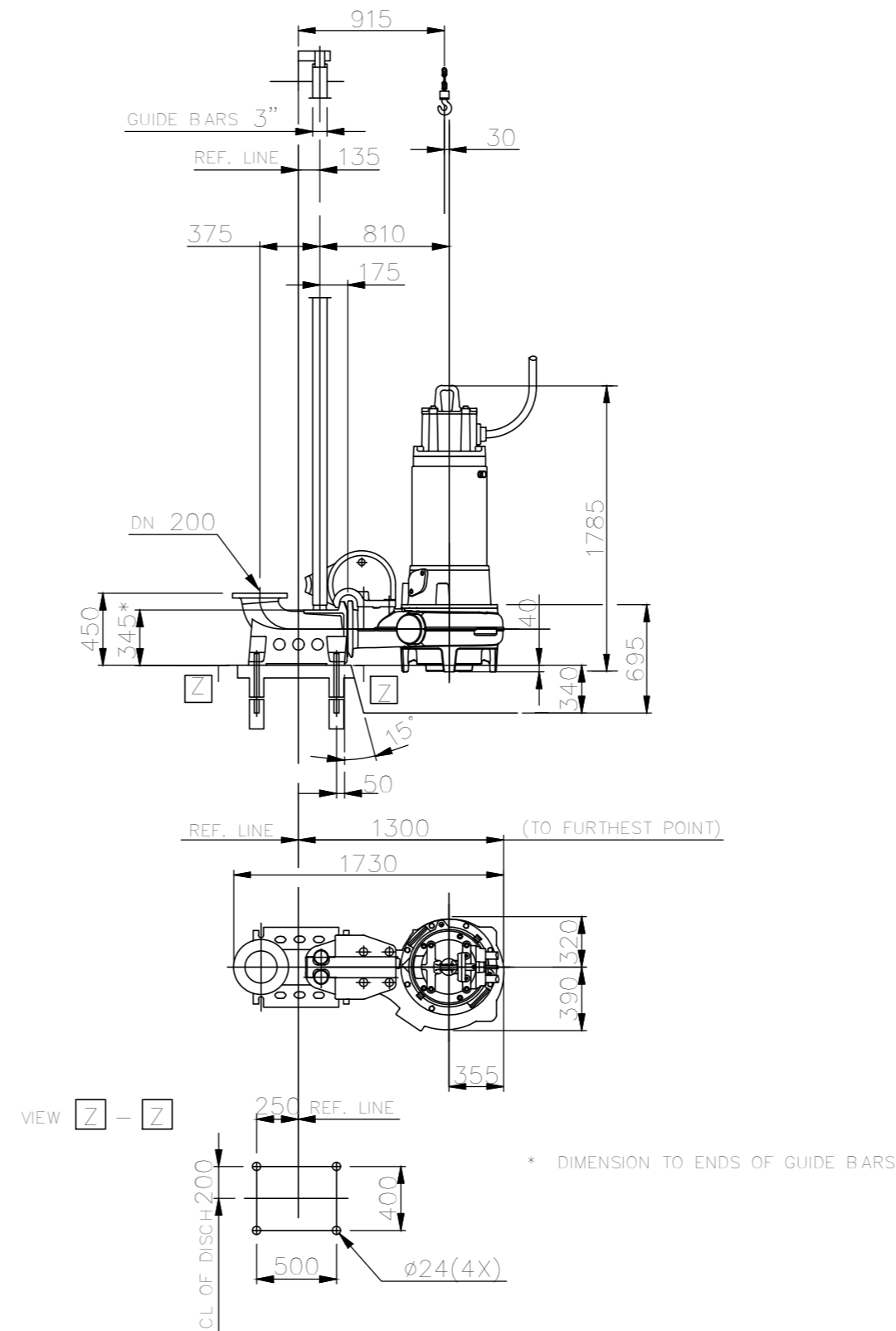
Answer: *The IFC drawings are fully engineered and the Contractor will only need to submit shop drawings for review and acceptance by the RDN's Engineer. The shop drawings are not required to be stamped and signed by a professional engineer registered in the province of BC.*

14. **Question:** Addendum #03 clarifies the Contractor must dispose of any resulting effluent/solids from power washing/ cleaning in an environmentally manner. Will the RDN assist with disposal and accept effluent at a local RDN landfill?

Answer: *The Contractor may dispose of liquid effluent at the Chase River Pump Station via the on-site septage receiving station and/or the Junction Chamber beside the Wet Well (flow to be controlled to avoid overloading the temporary pump bypass system). Rocks, gravel, sand or any other hard matter must be transported and disposed of at the Cedar Landfill. RDN will arrange for any necessary permissions for this.*



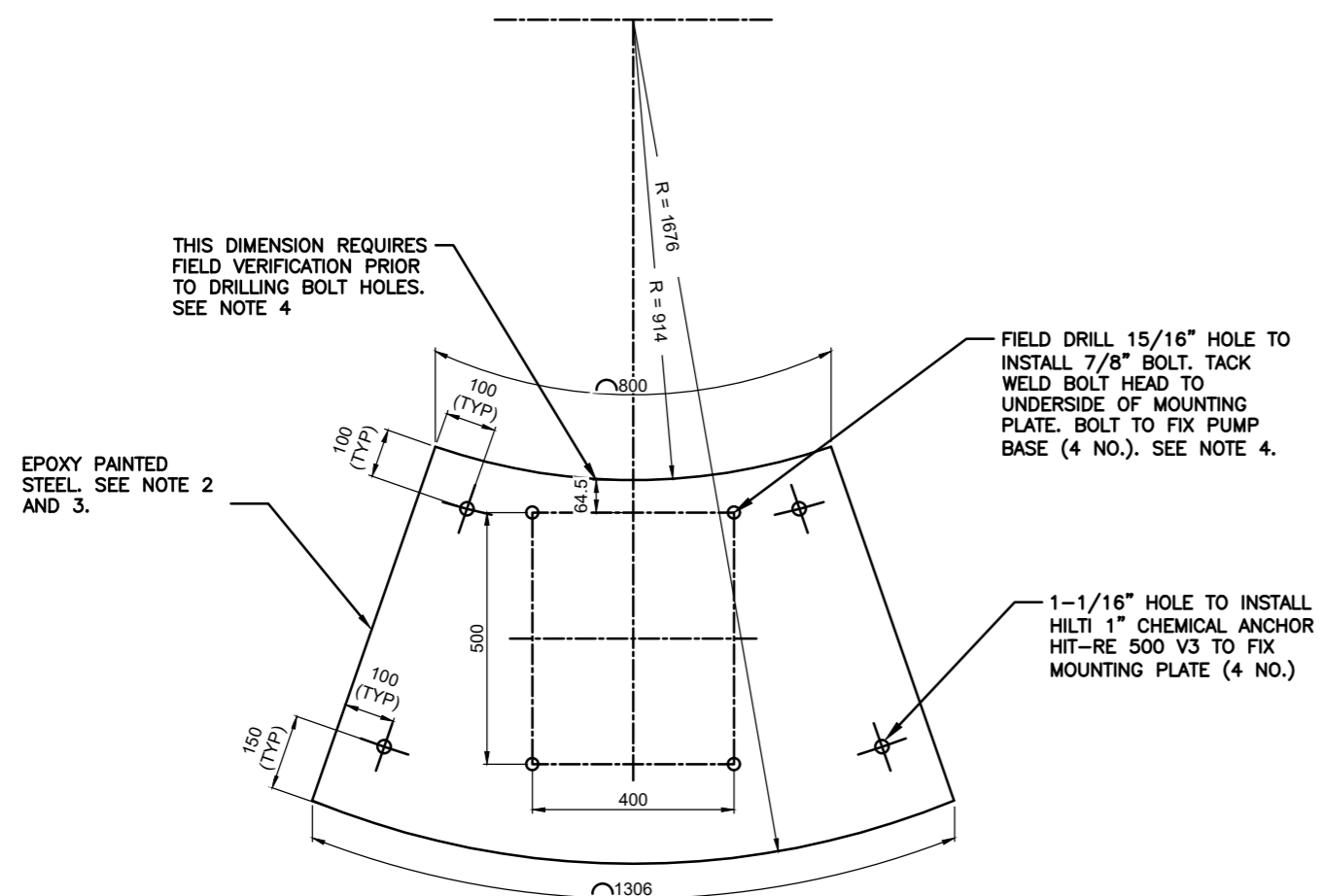
PUMP BASE AND MOUNTING PLATE 1
SCALE: NTS M-208



PUMP BASE AND SUPPORT DETAIL 3
SCALE: NTS M-208

NOTES

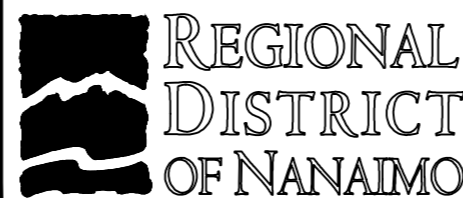
- DIMENSIONS SHOWN IN mm UNLESS NOTED OTHERWISE.
- STEEL FOR MOUNTING PLATE: ~~ASTM A1045~~ **ASTM A36**
- FOR REQUIREMENTS FOR EPOXY PAINT COATING REFER TO SPECIFICATIONS.
- FIELD VERIFY LOCATION OF EXISTING PUMP AND PUMP BASES TO POSITION BASE PLATE ON MOUNTING PLATE. VERIFY PROPOSED PUMP BASE POSITION MATCHES EXISTING LOCATION PRIOR TO DRILLING PUMP BASE HOLES.



STEEL MOUNTING PLATE DETAIL (TYP 5 NO.) 2
SCALE: NTS M-208

RFT 22-003 ADDENDUM 4 QUESTION 1 RESPONSE - February 18, 2022

DRAWING NO.	TITLE	REV	DATE	DESCRIPTION	DRN	CHK	APP
-	-	1	DEC 2021	ISSUED FOR CONSTRUCTION	JH	JG	JG
-	-	0	JUN 2021	ISSUED FOR CONSTRUCTION	SS	JG	JG
REFERENCE DRAWINGS		REVISIONS					



PROJECT NAME CHASE RIVER FORCEMAIN NO. 1 REPLACEMENT AND PUMP STATION UPGRADES		JACOBS			
DRAWN SS	DESIGNED MP			PROJECT NO. 707564	SCALE NTS
CHECKED JG	APPROVED JG	DRAWING NUMBER CRPS-M-216	SHEET -	DATE JUNE 2021	REV 1