



**Request for Proposals
For
Burnum Water System Upgrades**

Request for Proposals No.: **R18-61**

Issued: **July 25, 2018**

Submission Deadline: **August 16, 2018 @ 2 p.m. local time**

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Burnum Water System Improvements IFT Drawing Package

PART 1 – INVITATION AND SUBMISSION INSTRUCTIONS

1.1 Invitation to Proponents

This Request for Proposals (the “RFP”) is an invitation by the Cowichan Valley Regional District (the “CVRD”) to prospective proponents to submit proposals for **Burnum Water System Upgrades**, as further described in Section A of the RFP Particulars (Appendix D) (the “Deliverables”).

1.2 RFP Contact

For the purposes of this procurement process, the “RFP Contact” will be:

Anthony Jeffery Email: purchasing@cvrld.bc.ca

Proponents and their representatives are not permitted to contact any employees, officers, agents, elected or appointed officials or other representatives of the CVRD, other than the RFP Contact, concerning matters regarding this RFP. Failure to adhere to this rule may result in the disqualification of the proponent and the rejection of the proponent’s proposal.

1.3 Type of Contract for Deliverables

The selected proponent will be requested to enter into direct contract negotiations to finalize an agreement with the CVRD for the provision of the Deliverables. The terms and conditions found in the Form of Agreement (Appendix A) are to form the basis for commencing negotiations between the CVRD and the selected proponent. It is the CVRD’s intention to enter into an agreement with only one (1) legal entity.

1.4 RFP Timetable

Issue Date of RFP	July 25, 2018
Site Visit	July 31, 2018 @ 10 a.m. local time
Deadline for Questions	August 10, 2018 @ 4 p.m. local time
Deadline for Issuing Addenda	August 13, 2018 @ 4 p.m. local time
Submission Deadline	August 16, 2018 @ 2 p.m. local time
Rectification Period	Three business days
Anticipated Ranking of Proponents	August 20, 2018
Contract Negotiation Period	Five calendar days
Anticipated Execution of Agreement	August 22, 2018

The RFP timetable is tentative only, and may be changed by the CVRD at any time. For greater clarity, business days means all days that the CVRD is open for business.

There will be a site visit Tuesday July 30, 2018 @ 10 a.m. Please meet at the Burnum reservoir site at Andy Place off Burnham Road.

1.5 Submission of Proposals

1.5.1 Proposals to be Submitted to Prescribed Location

Proposals must be submitted at: purchasing@cvrld.bc.ca

1.5.2 Proposals to be Submitted on Time

Proposals must be submitted to the email address set out above on or before the Submission Deadline. Proposals submitted after the Submission Deadline will be rejected. The CVRD does not accept any responsibility for proposals delivered to any other email address or by any other means by the proponent. Proponents are advised to submit their Proposals well before the deadline. Proponents submitting proposals near the deadline do so at their own risk. Proposals will be deemed to be received when they enter into the CVRD system and the CVRD accepts no responsibility for proposals sent prior to the deadline that fail for any reason to enter into the CVRD system by the deadline.

The determination of whether the proposal is delivered by the Submission Deadline shall be based on the electronic time and date stamp generated by the CVRD's server, whether or not accurate.

1.5.3 Proposals to be Submitted in Prescribed Format

Proponents must submit one electronic copy of their proposal to the email address noted in 1.5.1. The email should indicate the RFP title and number (see RFP cover page) in the subject line and the full legal name of the proponent in the body of the email.

Proponents should note that the maximum acceptable email size is 8MB. If greater than 8MB, proponents should email proposals in multiple emails. If sending in multiple emails, each email should indicate the total number of emails that are being sent. All emails must be received prior to the Submission Deadline.

1.5.4 Amendment of Proposals

Proponents may amend their proposals prior to the Submission Deadline by submitting the amendment in the same prescribed format as detailed in 1.5.3. Any amendment should clearly indicate which part of the proposal the amendment is intended to amend or replace.

1.5.5 Withdrawal of Proposals

At any time throughout the RFP process until the execution of a written agreement for provision of the Deliverables, a proponent may withdraw a submitted proposal. To withdraw a proposal, a notice of withdrawal must be emailed to the RFP Contact in the same prescribed format as detailed in 1.5.3 and must be signed by an authorized representative of the proponent. The CVRD is under no obligation to return withdrawn proposals.

[End of Part 1]

PART 2 – EVALUATION, NEGOTIATION AND AWARD

2.1 Stages of Evaluation and Negotiation

The CVRD will conduct the evaluation of proposals and negotiations in the following stages:

2.2 Stage I – Mandatory Submission Requirements

Stage I will consist of a review to determine which proposals comply with all of the mandatory submission requirements. If a proposal fails to satisfy all of the mandatory submission requirements, the CVRD will issue the proponent a rectification notice identifying the deficiencies and providing the proponent an opportunity to rectify the deficiencies. If the proponent fails to satisfy the mandatory submission requirements within the Rectification Period, its proposal will be rejected. The Rectification Period will begin to run from the date and time that the CVRD issues a rectification notice to the proponent. The mandatory submission requirements are set out in Section C of the RFP Particulars (Appendix D).

2.3 Stage II – Evaluation

Stage II will consist of the following two sub-stages:

2.3.1 Mandatory Technical Requirements

The CVRD will review the proposals to determine whether the mandatory technical requirements as set out in Section D of the RFP Particulars (Appendix D) have been met. Questions or queries on the part of the CVRD as to whether a proposal has met the mandatory technical requirements will be subject to the verification and clarification process set out in Part 3.

2.3.2 Rated Criteria

The CVRD will evaluate each qualified proposal on the basis of the non-price rated criteria as set out in Section F of the RFP Particulars (Appendix D).

2.4 Stage III – Pricing

Stage III will consist of a scoring of the submitted pricing of each qualified proposal in accordance with the price evaluation method set out in Pricing (Appendix C). The evaluation of price will be undertaken after the evaluation of mandatory requirements and rated criteria has been completed.

2.5 Stage IV – Ranking and Contract Negotiations

2.5.1 Ranking of Proponents

After the completion of Stage III, all scores from Stage II and Stage III will be added together and the proponents will be ranked based on their total scores. The top-ranked proponent will receive a written invitation to enter into direct contract negotiations to finalize the agreement with the CVRD. In the event of a tie, the selected proponent will be the proponent selected by way of coin toss.

2.5.2 Contract Negotiation Process

Any negotiations will be subject to the process rules contained in the Terms and Conditions of the RFP Process (Part 3) and will not constitute a legally binding offer to enter into a contract on the part of the CVRD or the proponent and there will be no legally binding relationship created with any proponent prior to the execution of a written agreement. The terms and conditions found in the Form of Agreement (Appendix A) are to form the basis for commencing negotiations between the CVRD and the selected proponent. Negotiations may include requests by the CVRD for supplementary information from the proponent to verify, clarify or supplement the information provided in its proposal or to confirm the conclusions reached in the evaluation, and may include requests by the CVRD for improved pricing or performance terms from the proponent.

2.5.3 Time Period for Negotiations

The CVRD intends to conclude negotiations and finalize the agreement with the top-ranked proponent during the Contract Negotiation Period, commencing from the date the CVRD invites the top-ranked proponent to enter negotiations. A proponent invited to enter into direct contract negotiations should therefore be prepared to satisfy the pre-conditions of award listed in Section E of the RFP Particulars (Appendix D), provide requested information in a timely fashion and conduct its negotiations expeditiously.

2.5.4 Failure to Enter into Agreement

If the pre-conditions of award listed in Section E of the RFP Particulars (Appendix D) are not satisfied or if the parties cannot conclude negotiations and finalize the agreement for the Deliverables within the Contract Negotiation Period, the CVRD may discontinue negotiations with the top-ranked proponent and may invite the next-best-ranked proponent to enter into negotiations. This process will continue until an agreement is finalized, until there are no more proponents remaining that are eligible for negotiations or until the CVRD elects to cancel the RFP process.

2.5.5 Notification of Negotiation Status

Other proponents that may become eligible for contract negotiations may be notified at the commencement of the negotiation process with the top-ranked proponent.

[End of Part 2]

PART 3 – TERMS AND CONDITIONS OF THE RFP PROCESS

3.1 General Information and Instructions

3.1.1 Proponents to Follow Instructions

Proponents should structure their proposals in accordance with the instructions in this RFP. Where information is requested in this RFP, any response made in a proposal should reference the applicable section numbers of this RFP.

3.1.2 Proposals in English

All proposals are to be in English only.

3.1.3 No Incorporation by Reference

The entire content of the proponent's proposal should be submitted in a fixed form, and the content of websites or other external documents referred to in the proponent's proposal but not attached will not be considered to form part of its proposal.

3.1.4 Past Performance

In the evaluation process, the CVRD may consider the proponent's past performance or conduct on previous contracts with the CVRD or other institutions.

3.1.5 Information in RFP Only an Estimate

The CVRD and its advisers make no representation, warranty or guarantee as to the accuracy of the information contained in this RFP or issued by way of addenda. Any quantities shown or data contained in this RFP or provided by way of addenda are estimates only, and are for the sole purpose of indicating to proponents the general scale and scope of the Deliverables. It is the proponent's responsibility to obtain all the information necessary to prepare a proposal in response to this RFP.

3.1.6 Proponents to Bear Their Own Costs

The proponent will bear all costs associated with or incurred in the preparation and presentation of its proposal, including, if applicable, costs incurred for interviews or demonstrations.

3.1.7 Proposal to be Retained by the CVRD

The CVRD will not return the proposal or any accompanying documentation submitted by a proponent.

3.1.8 No Guarantee of Volume of Work or Exclusivity of Contract

The CVRD makes no guarantee of the value or volume of work to be assigned to the successful proponent. The agreement to be negotiated with the selected proponent will not be an exclusive contract for the provision of the described Deliverables. The CVRD may contract with others for goods and services the same as or similar to the Deliverables or may obtain such goods and services internally.

3.2 Communication after Issuance of RFP

3.2.1 Proponents to Review RFP

Proponents should promptly examine all of the documents comprising this RFP, and may direct questions or seek additional information in writing by email to the RFP Contact on or before the Deadline for Questions. No such communications are to be directed to anyone other than the RFP Contact. The CVRD is under no obligation to provide additional information, and the CVRD is not responsible for any information provided by or obtained from any source other than the RFP Contact. It is the responsibility of the proponent to seek clarification from the RFP Contact on any matter it considers to be unclear. The CVRD is not responsible for any misunderstanding on the part of the proponent concerning this RFP or its process.

3.2.2 All New Information to Proponents by Way of Addenda

This RFP may be amended only by addendum in accordance with this section. If the CVRD, for any reason, determines that it is necessary to provide additional information relating to this RFP, such information will be communicated to all proponents by addendum. Each addendum forms an integral part of this RFP and may contain important information, including significant changes to this RFP. Proponents are responsible for obtaining all addenda issued by the CVRD. In the Submission Form (Appendix B), proponents should confirm their receipt of all addenda by setting out the number of each addendum in the space provided.

3.2.3 Post-Deadline Addenda and Extension of Submission Deadline

If the CVRD determines that it is necessary to issue an addendum after the Deadline for Issuing Addenda, the CVRD may extend the Submission Deadline for a reasonable period of time.

3.2.4 Verify, Clarify and Supplement

When evaluating proposals, the CVRD may request further information from the proponent or third parties in order to verify, clarify or supplement the information provided in the proponent's proposal, including but not limited to clarification with respect to whether a proposal meets the mandatory technical requirements set out in Section D of the RFP Particulars (Appendix D). The CVRD may revisit, re-evaluate and rescore the proponent's response or ranking on the basis of any such information.

3.3 Notification and Debriefing

3.3.1 Notification to Other Proponents

Once an agreement is executed by the CVRD and a proponent, the other proponents may be notified directly in writing and will be notified by public posting in the same manner that this RFP was originally posted of the outcome of the procurement process.

3.3.2 Debriefing

Proponents may request a debriefing after receipt of a notification of the outcome of the procurement process. All requests must be in writing to the RFP Contact and must be made within sixty (60) days of such notification.

3.3.3 Procurement Protest Procedure

If a proponent wishes to challenge the RFP process, it should provide written notice to the RFP Contact in accordance with the CVRD's procurement protest procedures and any applicable trade agreement or other applicable bid protest procedures. The notice must provide a detailed explanation of the proponent's concerns with the procurement process or its outcome.

3.4 Conflict of Interest and Prohibited Conduct

3.4.1 Conflict of Interest

For the purposes of this RFP, the term "Conflict of Interest" includes, but is not limited to, any situation or circumstance where:

- (a) in relation to the RFP process, the proponent has an unfair advantage or engages in conduct, directly or indirectly, that may give it an unfair advantage, including but not limited to (i) having, or having access to, confidential information of the CVRD in the preparation of its proposal that is not available to other proponents, (ii) communicating with any person with a view to influencing preferred treatment in the RFP process (including but not limited to the lobbying of decision makers involved in the RFP process), or (iii) engaging in conduct that compromises, or could be seen to compromise, the integrity of the open and competitive RFP process or render that process non-competitive or unfair; or
- (b) in relation to the performance of its contractual obligations under a contract for the Deliverables, the proponent's other commitments, relationships or financial interests (i) could, or could be seen to, exercise an improper influence over the objective, unbiased and impartial exercise of its independent judgement, or (ii) could, or could be seen to, compromise, impair or be incompatible with the effective performance of its contractual obligations.

3.4.2 Disqualification for Conflict of Interest

The CVRD may disqualify a proponent for any conduct, situation or circumstances, determined by the CVRD, in its sole and absolute discretion, to constitute a Conflict of Interest as defined above.

3.4.3 Disqualification for Prohibited Conduct

The CVRD may disqualify a proponent, rescind an invitation to negotiate or terminate a contract subsequently entered into if the CVRD determines that the proponent has engaged in any conduct prohibited by this RFP.

3.4.4 Prohibited Proponent Communications

Proponents must not engage in any communications that could constitute a Conflict of Interest and should take note of the Conflict of Interest declaration set out in the Submission Form (Appendix B).

3.4.5 Proponent Not to Communicate with Media

Proponents must not at any time directly or indirectly communicate with the media in relation to this RFP or any agreement entered into pursuant to this RFP without first obtaining the written permission of the RFP Contact.

3.4.6 No Lobbying

Proponents must not, in relation to this RFP or the evaluation and selection process, engage directly or indirectly in any form of political or other lobbying whatsoever to influence the selection of the successful proponent(s).

3.4.7 Illegal or Unethical Conduct

Proponents must not engage in any illegal business practices, including activities such as bid-rigging, price-fixing, bribery, fraud, coercion or collusion. Proponents must not engage in any unethical conduct, including lobbying, as described above, or other inappropriate communications; offering gifts to any employees, officers, agents, elected or appointed officials or other representatives of the CVRD; deceitfulness; submitting proposals containing misrepresentations or other misleading or inaccurate information; or any other conduct that compromises or may be seen to compromise the competitive process provided for in this RFP.

3.4.8 Past Performance or Past Conduct

The CVRD may prohibit a supplier from participating in a procurement process based on past performance or based on inappropriate conduct in a prior procurement process, including but not limited to the following:

- (a) illegal or unethical conduct as described above;
- (b) the refusal of the supplier to honour its submitted pricing or other commitments; or
- (c) any conduct, situation or circumstance determined by the CVRD, in its sole and absolute discretion, to have constituted an undisclosed Conflict of Interest.

3.5 Confidential Information

3.5.1 Confidential Information of the CVRD

All information provided by or obtained from the CVRD in any form in connection with this RFP either before or after the issuance of this RFP:

- (a) is the sole property of the CVRD and must be treated as confidential;
- (b) is not to be used for any purpose other than replying to this RFP and the performance of any subsequent contract for the Deliverables;
- (c) must not be disclosed without prior written authorization from the CVRD; and
- (d) must be returned by the proponent to the CVRD immediately upon the request of the CVRD.

3.5.2 Confidential Information of Proponent

A proponent should identify any information in its proposal or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by the CVRD. The confidentiality of such information will be maintained by the CVRD, except as otherwise required by law or by order of a court or tribunal. Proponents are advised that their proposals will, as necessary, be disclosed, on a confidential basis, to advisers retained by the CVRD to advise or assist with the RFP process, including the evaluation of proposals. If a proponent has any questions about the collection and use of personal information pursuant to this RFP, questions are to be submitted to the RFP Contact.

3.6 Procurement Process Non-Binding

3.6.1 No Contract A and No Claims

This procurement process is not intended to create and will not create a formal, legally binding bidding process and will instead be governed by the law applicable to direct commercial negotiations. For greater certainty and without limitation:

- (a) this RFP will not give rise to any Contract A–based tendering law duties or any other legal obligations arising out of any process contract or collateral contract; and
- (b) neither the proponent nor the CVRD will have the right to make any claims (in contract, tort, or otherwise) against the other with respect to the award of a contract, failure to award a contract or failure to honour a proposal submitted in response to this RFP.

3.6.2 No Contract until Execution of Written Agreement

This RFP process is intended to identify prospective suppliers for the purposes of negotiating potential agreements. No legal relationship or obligation regarding the procurement of any good or service will be created between the proponent and the CVRD by this RFP process until the successful negotiation and execution of a written agreement for the acquisition of such goods and/or services.

3.6.3 Non-Binding Price Estimates

While the pricing information provided in proposals will be non-binding prior to the execution of a written agreement, such information will be assessed during the evaluation of the proposals and the ranking of the proponents. Any inaccurate, misleading or incomplete information, including withdrawn or altered pricing, could adversely impact any such evaluation or ranking or the decision of the CVRD to enter into an agreement for the Deliverables.

3.6.4 Cancellation

The CVRD may cancel or amend the RFP process without liability at any time.

3.7 Governing Law and Interpretation

These Terms and Conditions of the RFP Process (Part 3):

- (a) are intended to be interpreted broadly and independently (with no particular provision intended to limit the scope of any other provision);
- (b) are non-exhaustive and will not be construed as intending to limit the pre-existing rights of the parties to engage in pre-contractual discussions in accordance with the common law governing direct commercial negotiations; and
- (c) are to be governed by and construed in accordance with the laws of the province of British Columbia and the federal laws of Canada applicable therein.

[End of Part 3]

APPENDIX A – FORM OF AGREEMENT

CCDC 2008

APPENDIX B – SUBMISSION FORM

1. Proponent Information

Please fill out the following form, naming one person to be the proponent's contact for the RFP process and for any clarifications or communication that might be necessary.	
Full Legal Name of Proponent:	
Any Other Relevant Name under which Proponent Carries on Business:	
Street Address:	
City, Province/State:	
Postal Code:	
Phone Number:	
Fax Number:	
Company Website (if any):	
Proponent Contact Name and Title:	
Proponent Contact Phone:	
Proponent Contact Fax:	
Proponent Contact Email:	

2. Acknowledgment of Non-Binding Procurement Process

The proponent acknowledges that the RFP process will be governed by the terms and conditions of the RFP, and that, among other things, such terms and conditions confirm that this procurement process does not constitute a formal, legally binding bidding process (and for greater certainty, does not give rise to a Contract A bidding process contract), and that no legal relationship or obligation regarding the procurement of any good or service will be created between the CVRD and the proponent unless and until the CVRD and the proponent execute a written agreement for the Deliverables.

3. Ability to Provide Deliverables

The proponent has carefully examined the RFP documents and has a clear and comprehensive knowledge of the Deliverables required. The proponent represents and warrants its ability to provide the Deliverables in accordance with the requirements of the RFP for the rates set out in its proposal.

4. Non-Binding Pricing

The proponent has submitted its pricing in accordance with the instructions in the RFP and in Pricing (Appendix C) in particular. The proponent confirms that the pricing information provided is accurate. The proponent acknowledges that any inaccurate, misleading or incomplete information, including withdrawn or altered pricing, could adversely impact the acceptance of its proposal or its eligibility for future work.

5. Addenda

The proponent is deemed to have read and taken into account all addenda issued by the CVRD prior to the Deadline for Issuing Addenda. The proponent is requested to confirm that it has received all addenda by listing the addenda numbers, or if no addenda were issued by writing the word "None", on the following line: _____. Proponents who fail to complete this section will be deemed to have received all posted addenda.

6. No Prohibited Conduct

The proponent declares that it has not engaged in any conduct prohibited by this RFP.

7. Conflict of Interest

Proponents must declare all potential Conflicts of Interest, as defined in section 3.4.1 of the RFP. This includes disclosing the names and all pertinent details of all individuals (employees, advisers, or individuals acting in any other capacity) who (a) participated in the preparation of the proposal; **AND** (b) were employees of the CVRD within twelve (12) months prior to the Submission Deadline.

If the box below is left blank, the proponent will be deemed to declare that (a) there was no Conflict of Interest in preparing its proposal; and (b) there is no foreseeable Conflict of Interest in performing the contractual obligations contemplated in the RFP.

Otherwise, if the statement below applies, check the box.

- ☐ The proponent declares that there is an actual or potential Conflict of Interest relating to the preparation of its proposal, and/or the proponent foresees an actual or potential Conflict of Interest in performing the contractual obligations contemplated in the RFP.

If the proponent declares an actual or potential Conflict of Interest by marking the box above, the proponent must set out below details of the actual or potential Conflict of Interest:

8. Disclosure of Information

The proponent hereby agrees that any information provided in this proposal, even if it is identified as being supplied in confidence, may be disclosed where required by law or by order of a court or tribunal. The proponent hereby consents to the disclosure, on a confidential basis, of this proposal by the CVRD to the advisers retained by the CVRD to advise or assist with the RFP process, including with respect to the evaluation this proposal.

Signature of Proponent Representative

Name of Proponent Representative

Title of Proponent Representative

Date

I have the authority to bind the proponent.

APPENDIX C – PRICING

1. Instructions on How to Provide Pricing

- (a) Proponents should provide the information requested under section 3 below (“Required Pricing Information”) by reproducing and completing the table below in their proposals, or, if there is no table below, by completing the attached form and including it in their proposals.
- (b) Rates must be provided in Canadian funds, inclusive of all applicable duties and taxes except for GST and PST, which should be itemized separately.
- (c) Rates quoted by the proponent must be all-inclusive and must include all labour and material costs, all travel and carriage costs, all insurance costs, all costs of delivery, all costs of installation and set-up, including any pre-delivery inspection charges, and all other overhead, including any fees or other charges required by law.

2. Evaluation of Pricing

Pricing is worth 70 points of the total score.

Pricing will be scored based on a relative pricing formula using the rates set out in the pricing form. Each proponent will receive a percentage of the total possible points allocated to price for the particular category it has submitted a proposal for, which will be calculated in accordance with the following formula:

$$\text{lowest price} \div \text{proponent's price} \times \text{weighting} = \text{proponent's pricing points}$$

3. Required Pricing Information

Item	Total
Price to perform the work as per the specifications and drawings.	
GST	
Total Price	

APPENDIX D – RFP PARTICULARS

A. THE DELIVERABLES

The CVRD is accepting proposals for work that includes retrofit of, upgrades to, and equipment installation and commissioning of a reservoir and construction of a new water treatment building, for the Burnum Water System located in Cobble Hill, BC.

The deliverables are detailed in the attached drawings.

The proposal should include a schedule.

B. MATERIAL DISCLOSURES

General

1. All works should be completed to MMCD specifications
2. CVRD to obtain Island Health Construction Permit prior to construction
3. Contractor to be responsible for coordination of all works with the CVRD and WSP.
4. CVRD to retain Geotech for testing. (concrete & compaction – reservoir items 2 & 3)
5. Construction survey / layout by Contractor. (WSP can supply survey file)
6. Contractor to provide as-constructed markups of all works.

Site / Civil Items

1. Contractor shall provide a detailed plan for trail closure for duration of construction. Closure plan to be accepted by CVRD.
2. Siltation abatement plan to be provided by contractor.
3. Contractor to provide work plan for connection and commissioning of new works for review and acceptance by CVRD. Disruption to service to be minimized.
4. Building colours to be specified by CVRD
5. Chlorination of watermain to AWWA standards. Chlorination by swabbing method may be acceptable for some connections / tie-ins.
6. Water samples for health (bacterial) tests to be collected and processed by CVRD
7. Shop drawings should be supplied for spools, pump equipment, hatch, etc. MMCD outlines in requirements in the relevant specification section.

Reservoir Items

1. WSP Structural to sign off on the reservoir, WSP to complete field reviews of the installation of the works. Scope of review will include, but is not limited to form work, reinforcing (Est. 3-4 reviews), concrete mix design review.
2. Geotechnical review of the reservoir base will be required prior to placement of concrete. Contractor should provide material samples of granular material for sieve & proctor testing prior to construction.
3. Concrete testing should be completed on each pour (day). Structural drawing outlines minimum testing requirements

4. Contractor to provide detailed concrete mix design for review and acceptance. Mix shall include Xypex admixture. All concrete admixtures shall meet the requirements of ASTM C494 for potable water.
5. Leakage testing to ACI 350.1 shall be completed on reservoir to ensure no leaks are present prior to backfilling.
6. Reservoir to be chlorinated to AWWA C-652 method 1 or 2. Contractor to provide chlorination plan for acceptance.

Electrical

All electrical work to be installed by CVRD during framing stage.

Existing Equipment

The following items in the Schedule of Fittings on Drawing C-003 are existing equipment to be supplied and installed by CVRD:

- Item No. 6 - 9.5mm (3/8") TEFLON CHLORINE INJECTION LINE
- Item No. 10 - CHLORINE ANALYZER - SEVERN TRENT MODEL T17xC4400A OR APPROVED EQUAL
- Item No. 11 - PROMINENT DELTA DOSING PUMP
- Item No. 12 - CHLORINE SOLUTION TANK

Project Team

The project team includes:

- CVRD - Project Owner
- WSP - Design Engineer

Schedule

The work is to be completed by December 31, 2018.

C. MANDATORY SUBMISSION REQUIREMENTS

1. Submission Form (Appendix B)

Each proposal must include a Submission Form (Appendix B) completed and signed by an authorized representative of the proponent.

2. Pricing (Appendix C)

Each proposal must include pricing information that complies with the instructions contained in Pricing (Appendix C).

3. Other Mandatory Submission Requirements

N/A

D. MANDATORY TECHNICAL REQUIREMENTS

N/A

E. PRE-CONDITIONS OF AWARD

- Provide a Performance Bond and a Labour and Material Payment Bond each in the amount of fifty percent (50%) of the Contract Price
- Provide these bonds within ten (10) Working Days of contract award. Maintain bonds in good standing until Contract fulfillment.
- Provide a WorkSafeBC Clearance letter.
- Provide a Certificate of Insurance as per CCDC 2 GC 11.1 – GC 12.1 Indemnification and Supplementary Conditions.

F. RATED CRITERIA

The following sets out the categories, weightings and descriptions of the rated criteria of the RFP. Proponents who do not meet a minimum threshold score for a category will not proceed to the next stage of the evaluation process.

Rated Criteria Category	Weighting (Points)	Minimum Threshold
i. Experience and Qualifications	15 points	12 Points
ii. References	15 points	12 points
Pricing (See Appendix C for details)	70 points	N/A
Total Points	100 points	N/A

Suggested Proposal Content for Non-Price Criteria

i. Experience and Qualifications

Each proponent should provide the following in its proposal:

- a brief description of the proponent;
- a description of its knowledge, skills and experience relevant to the Deliverables; and
- the roles and responsibilities of the proponent and any of its agents, employees and sub-contractors who will be involved in providing the Deliverables, together with the identity of those who will be performing those roles and their relevant respective expertise.

ii. References

Each proponent is requested to provide three (3) references from clients who have obtained goods or services similar to those requested in this RFP from the proponent in the last five years. Please submit the Reference Form – Appendix E provided in this document.

APPENDIX E – REFERENCE FORM

The proponent must provide details of 3 projects similar to this project.

Reference #1

Reference contact Information Name: Organisation: Title: Email: Phone Number:
Project name: Value of the Project: Contract Period:
Description of the Project:
Positive Aspects of the Project:
Challenges Faced on the Project:
Scheduling Challenges:
Innovation and Value Added Services:

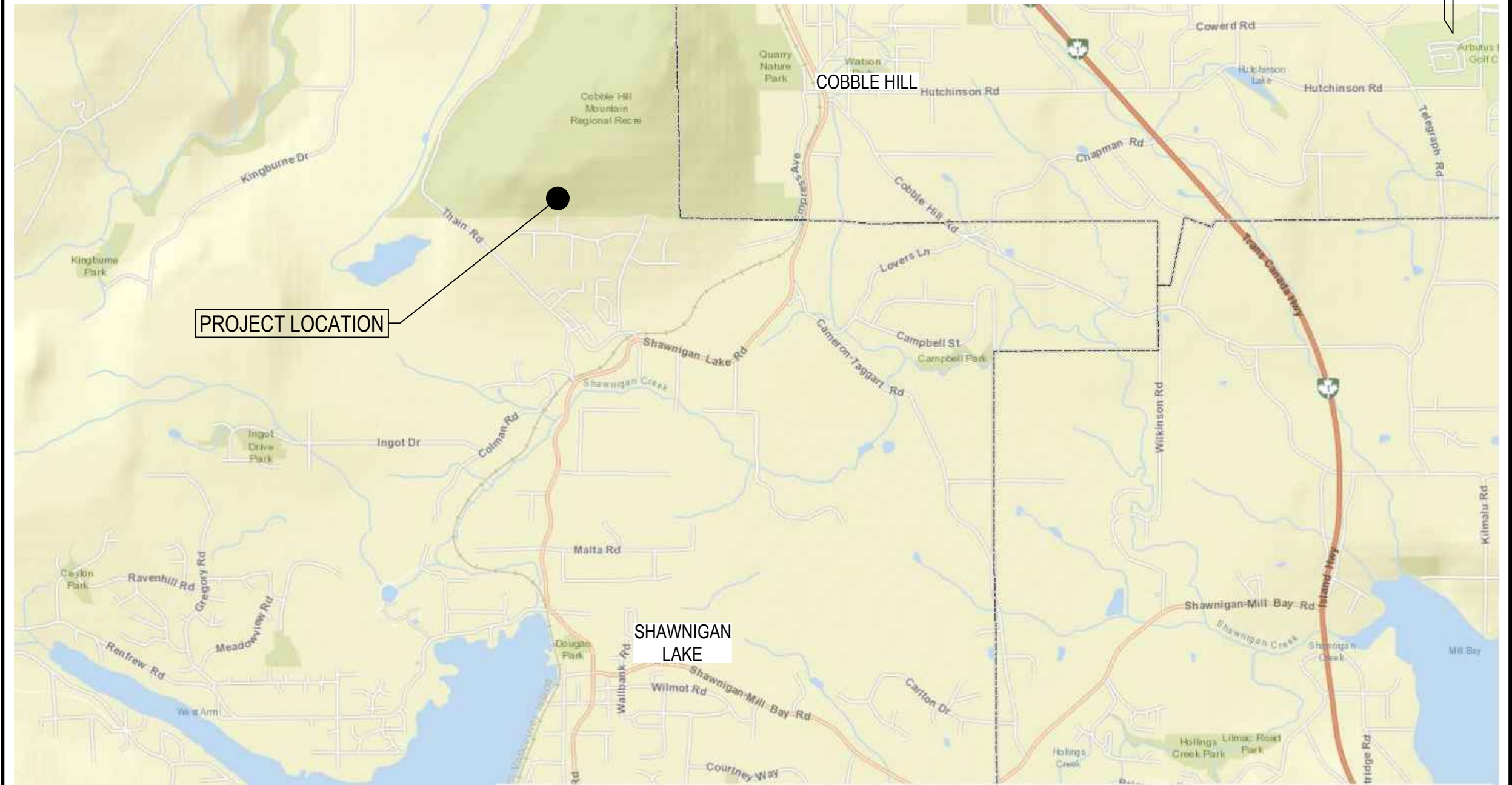
Reference #2

Reference contact Information Name: Organisation: Title: Email: Phone Number:
Project name: Value of the Project: Contract Period:
Description of the Project:
Positive Aspects of the Project:
Challenges Faced on the Project:
Scheduling Challenges:
Innovation and Value Added Services:

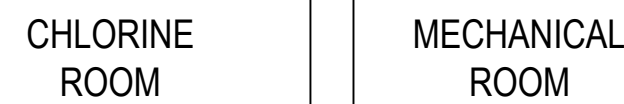
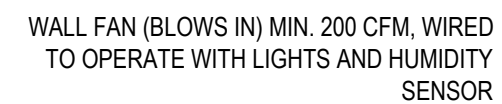
Reference #3

Reference contact Information Name: Organisation: Title: Email: Phone Number:
Project name: Value of the Project: Contract Period:
Description of the Project:
Positive Aspects of the Project:
Challenges Faced on the Project:
Scheduling Challenges:
Innovation and Value Added Services:

181-00107-00



A1 V:PROJECTS\2018\181-00107-40 CIVRD BURNUM WATER SYSTEM UPGRADES - DESIGN SERVICES\DWG\CIVIL PRODUCTION\181-00107-40 LAYOUTS PLOT.Dwg: 2018.07.21 4:20 PM By: F:\bhn_8xb



NTS



*CONTRACTOR TO CONFIRM MODEL AND SIZING IF SLEEVE USED.



SEAL:	
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wsp.com

TITLE:		DETAILS	
DRAWING NO:		C-004	
SHEET NO:		4	OF 9
ISSUE:		ISS/REV:	
ISSUED FOR RFP		1	
25 JUNE 2018			

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR BUILDING PRIOR TO COMMENCEMENT OF WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND ABOUT THE JOB SITE DURING CONSTRUCTION.
3. CONTRACTOR TO ENSURE THAT ALL WORK IS CARRIED OUT BY THE RULES AND CUSTOMS OF THE BEST TRADE PRACTICES AND THEIR SPECIFICATIONS BY SKILLED TRADES PEOPLE KNOWLEDGEABLE OF THE TYPE OF CONSTRUCTION. THEY ARE TO BE PROPERLY EQUIPPED AND SUPERVISED.
4. SEE CIVIL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SLEEVES, INSERTS, ETC. TO BE ENCASED IN CONCRETE.
5. THESE DRAWINGS DO NOT INCLUDE DETAILS FOR BUILDING ENVELOPE, WATER PROOFING AND DRAINAGE. SEE MECHANICAL, ELECTRICAL AND CIVIL ENGINEERING DRAWINGS AS APPROPRIATE.

CONCRETE AND REINFORCING NOTES

1. CONCRETE TO BE READY MIX CONCRETE CONFORMING TO THE CSA A23.1/A23.2 CEMENT TO BE NORMAL PORTLAND CEMENT CONFORMING TO CSA A3000-(A5). USE ADMIXTURES ONLY WITH WRITTEN APPROVAL OF THE ENGINEER.

LOCATION	28 DAY STRENGTH	SLUMP +20mm	MAX AGG	ENTR AIR	CLASS OF EXPOSURE
TYPICAL UN SLABS ON GRADE (EXT)	MPa	mm	mm	%	
	25	80	20	4-7	F-1
	32	80	20	5-8	C-2

REFER TO PROJECT SPECIFICATIONS FOR MINIMUM CEMENTITIOUS CONTENT, SLUMP, MAXIMUM AGGREGATE SIZE, CLASS OF EXPOSURE AND OTHER REQUIREMENTS.

2. REINFORCEMENT TO BE BILLET STEEL CONFORMING TO THE REQUIREMENTS OF THE FOLLOWING CSA STANDARDS:

CSA G30.18(R)GRADE 400 ALL REINFORCING UN

CSA G30.5WELDED WIRE MESH

CSA G30.18(W)GRADE 400 ZONE/SHEARWALL REINF

3. CONCRETE PROTECTION ON PRINCIPAL REINFORCING SHALL BE AS FOLLOWS:

SURFACES PLACED IN CONTACT WITH GROUND:75mm [3"]

FORMED SURFACES EXPOSED TO GROUND OR WEATHER:50mm [2"]

4. INTERIOR WALL SINGLE CURTAIN REINFORCING SHALL BE CENTERED IN WALLS UNLESS OTHERWISE SHOWN.

5. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND HOOKED AT WALL INTERSECTIONS. ADD 2-15M CONT AT TOPS AND ENDS OF WALLS. UNLESS OTHERWISE NOTED, HOOK AND LAP LENGTHS AS FOLLOWS:

BAR SIZE

VERT LAP

HORL LAP

HOOK LENGTH

10M

430mm [16"]

500mm [20"]

180mm [7"]

15M

600mm [24"]

800mm [32"]

250mm [10"]

6. REINFORCING SHALL BE PLACED AND BENT IN ACCORDANCE WITH CSA A23.1.
7. REINFORCING BARS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT PRIOR TO PLACING OF CONCRETE.

8. FOR ADHESIVE SET REINFORCING BAR USE HILTI HIT HY150 MAX INJECTION ADHESIVE SYSTEM OR APPROVED EQUAL. INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
9. FOR ADHESIVE SET THREADED ANCHORS USE HILTI HIT HY150 MAX INJECTION ADHESIVE SYSTEM WITH ASTM A193(B7) [A307] THREADED RODS OR APPROVED EQUAL. INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

10. REINFORCING STEEL WITHIN 3000mm [10'-0"] OF ELECTRICAL TRANSFORMERS TO BE EPOXY COATED.
11. ALL CONCRETE IS TO BE VIBRATED.

INTERIOR SLAB ON GRADE NOTES

1. SLAB THICKNESS AS INDICATED ON DRAWINGS.
2. REINFORCE WITH 15M @ 450mm ON CENTER EACH WAY UNLESS OTHERWISE NOTED. CHAIR AT MID DEPTH OF SLAB.
3. PROVIDE 6 MIL POLY VAPOUR BARRIER ON MINIMUM 200mm COMPACTED GRANULAR FILL UNDER SLAB.
4. CONDUITS IN SLAB:

a. SIZE - OUTSIDE DIAMETER NOT GREATER THAN 0.25 X SLAB THICKNESS.

b. CONDUITS GREATER THAN 0.25 X SLAB THICKNESS TO BE BURIED BELOW SLAB OR INCREASE SLAB THICKNESS TO MAINTAIN SLAB DEPTH OVER CONDUITS.

c. CONDUITS WITHIN SLAB TO BE PLACED ON TOP OF VAPOUR BARRIER AND BELOW REINFORCING.

d. CONDUITS TO BE IN ONE LAYER ONLY

e. CONDUITS TO BE SPACED NOT CLOSER THAN 4 X OUTSIDE DIAMETER.

FOUNDATION NOTES

1. FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING ALLOWABLE (WORKING STRESS) BEARING PRESSURE OF 100 kN/m2. FOOTINGS TO BEAR ON UNDISTURBED NATIVE GROUND.
2. BEARING SURFACES MUST BE APPROVED BY A SOILS ENGINEER PRIOR TO FOOTING CONCRETE BEING PLACED. WSP IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.
3. UNLESS OTHERWISE SHOWN, CENTER FOOTINGS UNDER COLUMNS AND WALLS.
4. DOWELS AND ANCHOR BOLTS SHALL BE PLACED BEFORE CONCRETE IS PLACED. USE TEMPLATES TO ENSURE CORRECT PLACEMENT OF DOWELS.
5. PROVIDE 2" GROUND SEAL UNDER FOOTINGS WHERE REQUIRED BY SOIL CONDITIONS.
6. FOR GROUND ELEVATIONS AND DRAINAGE SLOPES, SEE CIVIL DRAWINGS.
7. FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS OF SAME. DO NOT UNDERMINE FOOTINGS BY EXCAVATIONS FOR SERVICES, PITS, ETC.
8. FOOTINGS ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. ARE NOT FINAL, AND MAY VARY ACCORDING TO SITE CONDITIONS. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE SOILS ENGINEER.
9. PROTECT BEARING SURFACES FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.

WOOD FRAMING NOTES

1. ALL WOOD FRAMING TO CONFORM AS A MINIMUM TO THE REQUIREMENTS OF PART 9 OF THE BRITISH COLUMBIA BUILDING CODE, LATEST EDITION AND CSA STANDARD 086.1 ENGINEERING DESIGN IN WOOD. ALL STRUCTURAL LUMBER SHALL HAVE AN AVERAGE EQUILIBRIUM MOISTURE CONTENT NOT EXCEEDING 15% OR LESS OVER A YEAR AND NOT EXCEEDING 19% AT ANY TIME.
2. SAWN LUMBER FRAMING GRADES AND SPECIES SHALL CONFORM TO STRUCTURAL LUMBER COMPLYING WITH THE REQUIREMENTS OF CSA STANDARD CAN/CSA-0141.

GENERALLY, UNLESS SHOWN ON DRAWINGS OTHERWISE:

MEMBER	SPECIES	GRADE
WALLS:	SPF/D.FIR	#1/#2
SILL PLATES, TOP & BOT.:	SPF/D.FIR	#1/#2
DOOR AND WINDOW LINTELS/DROP BEAMS	SPF/D.FIR	#1/#2

3. NAILS AND SPIKES: TO CSA-B111.
4. BOLTS: 16mm [5/8"] DIAMETER TO ASTM A307, COMPLETE WITH NUTS AND WASHERS, UNLESS SHOWN OTHERWISE.
5. JOIST HANGERS AND FRAMING HANGERS FOR GENERAL FRAMING MINIMUM 20 Ga STEEL. GALVANIZED ZF001 COATING, AND SIMPSON Z MAX AS SHOWN ON DRAWINGS. PURPOSE MADE.
6. BEAM AND SPECIAL HANGERS: TO BE PURPOSE MADE FOR LOADS AS SPECIFIED, AND WHERE MANUFACTURED LUMBER ARE USED, IN ACCORDANCE WITH RECOMMENDATIONS OF THE LUMBER PRODUCT MANUFACTURER.
7. WOOD PRESERVATIVES SHALL CONFORM TO AND BE APPLIED IN ACCORDANCE WITH CSA-080-M. WOOD PRESERVATION SHALL BE EITHER ALKALINE COPPER QUATERNARY (ACQ) OR COPPER AZOLE (CA). ACQ MAYBE EITHER TYPE ACQ-B (AMMONIACAL) OR TYPE ACQ-D (AMINE). PRESERVATIVES SHALL BE APPLIED TO THE WOOD IN A WATER SOLUTION, TO RETENTION LEVELS RECOMMENDED BY THE MANUFACTURER. SUBMIT PRESERVATIVE SPECIFICATIONS TO THE STRUCTURAL ENGINEER FOR APPROVAL. WOOD PRESERVATIVES TO CONFORM TO REQUIREMENT OF LOCAL AUTHORITY.

NAILS, BOLTS AND METALS IN CONTACT WITH PRESERVED WOOD PRODUCTS SHALL BE HOT DIPPED GALVANIZED TO STANDARD ASTM A153 WITH A G185 GALVANIZING DESIGNATION THAT MEETS ASTM A653. STAINLESS STEEL CAN ALSO BE USED.

8. BRACING AT BEARING POINTS FOR BOTTOM CHORD BEARING TRUSSES: PROVIDE SOLID BLOCKING BETWEEN TRUSSES AS SHOWN ON PLANS.
9. STUD BEARING WALLS TO HAVE A CONTINUOUS DOUBLE TOP PLATE, LAPPED WITH INTERSECTING PLATES AT WALL INTERSECTIONS. LAP PLATES MINIMUM 1200mm AT SPLICE POINTS.
10. AT EXTERIOR FOUNDATIONS AND CONCRETE SLAB LOCATIONS PROVIDE CAST IN PLACE 16mm DIAMETER x 250mm LONG ANCHOR BOLTS AT 1200mm ON CENTER UNLESS NOTED OTHERWISE.

PLYWOOD SHEATHING NOTES

1. SHEATHING TO BE PLYWOOD SHEATHING GRADE, DOUGLAS FIR AND MARKED CANPLY EXTERIOR TO CSA 0121.
2. FACE GRAIN OF PLYWOOD SHEATHING TO BE PERPENDICULAR TO SUPPORTING TRUSSES AND WALL STUDS.
3. END JOINTS IN ADJACENT SHEATHING SHEETS TO BE STAGGERED 1219.
4. END JOINTS OF SHEATHING TO BEAR ON SUPPORTING TRUSSES OR STUDS AND BUTT ALONG THEIR CENTER LINES SUCH THAT NAIL EDGE DISTANCE IS NOT LESS THAN 12.5mm.
5. FASTEN SHEATHING WITH COMMON NAILS AT 100mm ON CENTER ALONG ALL EDGES SUPPORTED ON FRAMING, ALL BLOCKING, AND TOP AND BOTTOM PLATES OF STUD WALLS, UNLESS OTHERWISE SHOWN.
6. FASTEN SHEATHING AT 300mm ON CENTER ALONG INTERMEDIATE BEARINGS.
7. STAPLES ARE NOT PERMITTED.
8. FASTENERS FOR SHEATHING TO MEET THE FOLLOWING ADDITIONAL REQUIREMENTS,

NAIL LENGTH:64mm

NAIL DIAMETER:3.25mm

PREFABRICATED GANG NAIL TYPE WOOD TRUSSES

1. TRUSSES ARE TO BE DESIGNED FOR SUPERIMPOSED LOADS AS SHOWN ON THE DRAWINGS, BY THE COMPONENT DESIGN METHODS, AND FOR LSD STRESSES REQUIRED BY PART 4 OF THE BRITISH COLUMBIA BUILDING CODE AND CSA 086.1. ROOF TRUSSES ARE TO BE DESIGNED FOR SNOW ACCUMULATIONS IN ACCORDANCE WITH THE SUPPLEMENT TO THE NATIONAL BUILDING CODE. SUBMIT DESIGN CRITERIA AND RECEIVE APPROVAL FROM THE ENGINEER OF RECORD
2. TRUSSES ARE TO BE MANUFACTURED BY A MEMBER OF THE WESTERN WOOD TRUSS ASSOCIATION, WHICH IS TO PROVIDE LAYOUT & SHOP DRAWINGS SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN BRITISH COLUMBIA. SUBMIT 4 SETS OF SHOP DRAWINGS TO THE ENGINEER OF RECORD AND RECEIVE APPROVAL BEFORE FABRICATION.
3. TRUSSES ARE TO BE ERECTED IN ACCORDANCE WITH THE TRUSS MANUFACTURER'S INSTRUCTIONS AND THE WORKERS' COMPENSATION BOARD REQUIREMENTS.
4. DESIGN ALL TRUSS TO GIRDER TRUSS CONNECTIONS AND PROVIDE FOR, AND SHOW, CONNECTION OF OTHER BEAM AND PURLIN CONNECTIONS TO TRUSSES. SHOP DRAWINGS TO INDICATE POSITION OF HANGERS AND CONNECTORS, AND TRUSS MANUFACTURER IS TO PROVIDE COMPLETE SHOP DRAWINGS FOR ENGINEERED HANGERS. TRUSS MANUFACTURER IS TO INDICATE AND DETAIL ALL WEB AND CHORD BRACING ON LAYOUT DRAWINGS AS WELL AS LATERAL BRACING REQUIRED AT BEARING POINTS.
5. WHERE TRUSSES BEAR ON WALLS, FASTEN TO SILL PLATE AT EACH END WITH NOT LESS THAN 1-18 GA GALVANIZED ANCHOR. WHERE TRUSSES FRAME ONTO GIRDER TRUSS, FASTEN WITH ENGINEERED TRUSS HANGER NOT LESS THAN 16 GA.

COLD WEATHER REQUIREMENTS

SEE ALSO CSA A 23.1, EXCEPT THE FOLLOWING MINIMUM REQUIREMENTS MUST ALSO BE MET.

1. FORECASTED AIR TEMPERATURE NOT BELOW 2°C (36°F)

A. IF CONCRETE TEMPERATURE DROPS BELOW 5°C AT ANY POINT OF POURING, THE MIXING WATER SHALL BE HEATED TO MAINTAIN A MINIMUM CONCRETE TEMPERATURE OF 10°C.

B. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE LESS THAN 5°.

C. CONTRACTOR SHALL BE PREPARED TO COVER SLAB IF UNEXPECTED DROP OF AIR TEMPERATURE SHOULD OCCUR.

D. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 3 DAYS OR UNTIL THE CONCRETE STRENGTH REACHES 10MPA STRENGTH.
2. FORECASTED AIR TEMPERATURE BELOW 2°C (36°F) BUT NOT BELOW -4°C (25°F)

A. FORMS AND STEEL SHALL BE FREE FROM ICE AND SNOW.

B. MIXING WATER SHALL BE HEATED TO GIVE A MINIMUM CONCRETE TEMPERATURE OF 10°C AT POINT OF POUR.

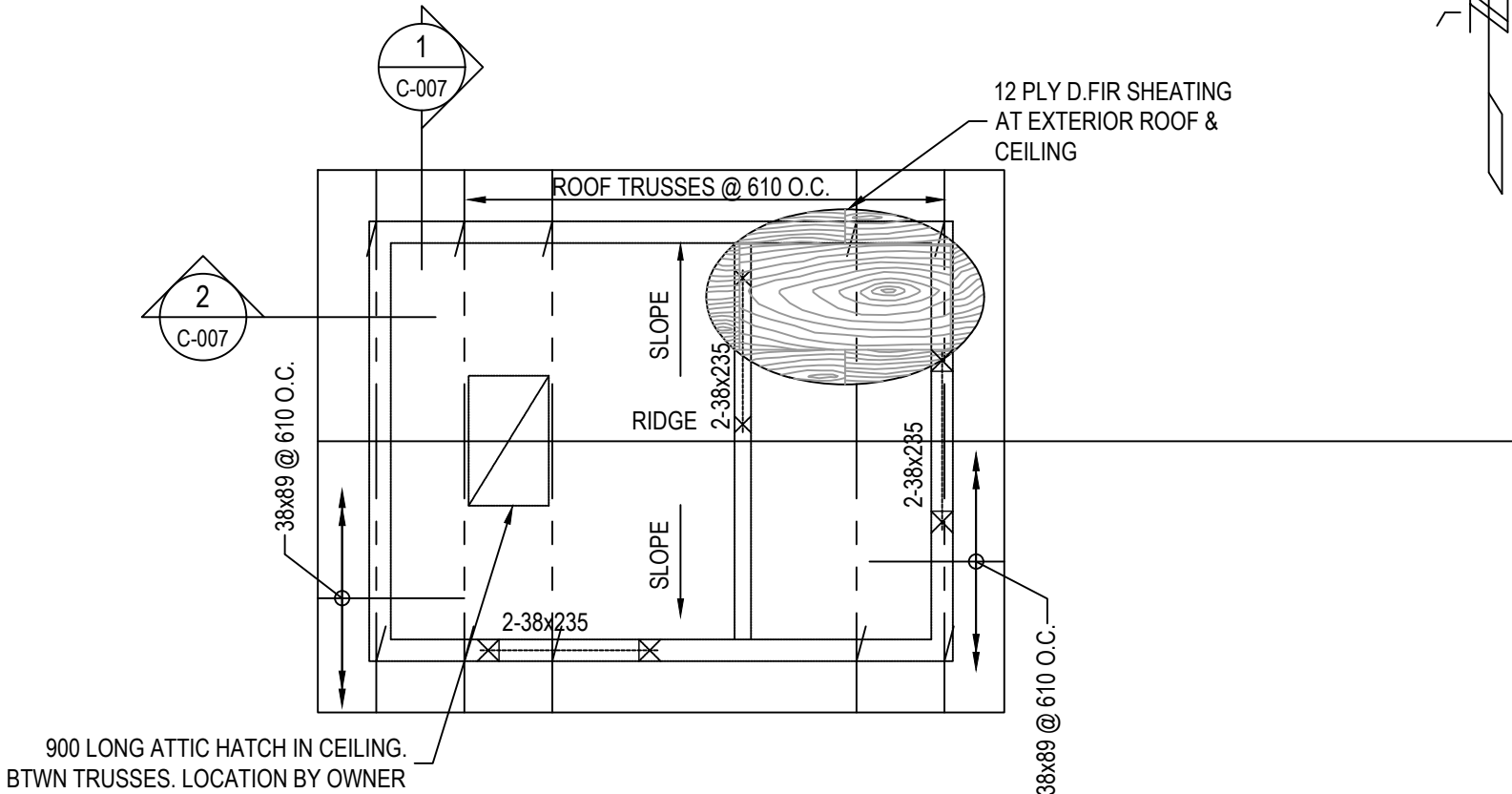
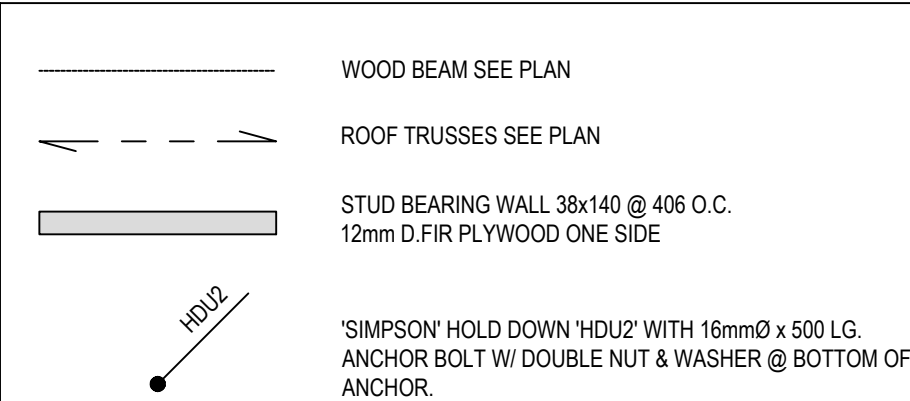
C. CONCRETE SHALL NOT BE PLACED ON OR AGAINST ANY SURFACE WHICH IS AT A TEMPERATURE OF LESS THAN 5°C.

D. SLAB SHALL BE COVERED WITH CANVAS OR SIMILAR, KEPT A FEW INCHES CLEAR OF SURFACE.

E. PROTECTION SHALL BE MAINTAINED FOR AT LEAST 3 DAYS.

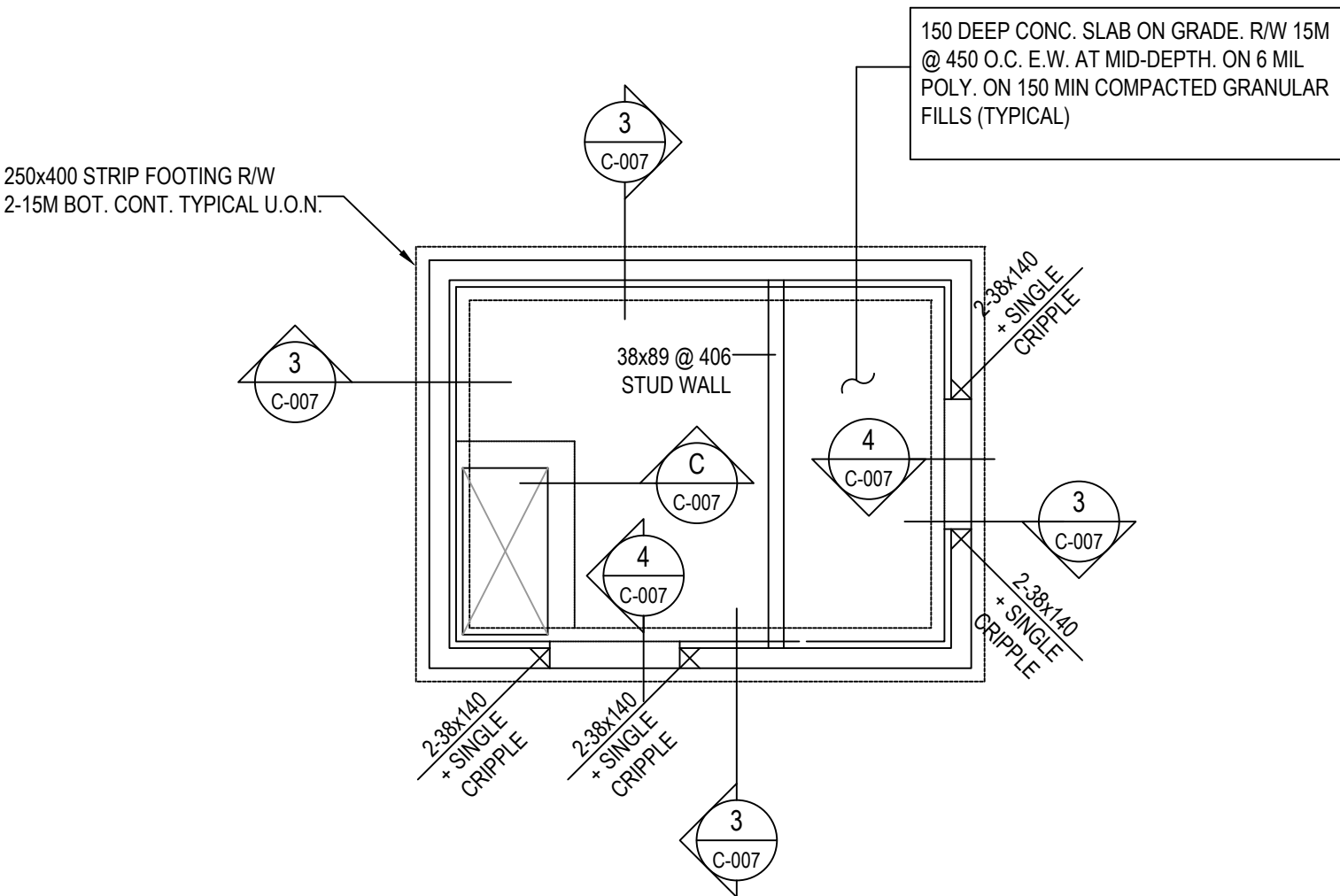
F. CONCRETE TEMPERATURE SHALL BE MAINTAINED ABOVE 10°C FOR AT LEAST 3 DAYS OR UNTIL THE CONCRETE REACHES 10MPA.

LEGEND



A ROOF FRAMING PLAN

1:50



B GROUND FLOOR/ FOUNDATION PLAN

1:50

ISLAND HEALTH WATER SYSTEM CONSTRUCTION PERMIT W-S-XXXX

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THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.	----	----	----	----	----	----	----	----	----
THIS DRAWING IS NOT TO BE SCALED.	1	2018/06/25	ISSUED FOR RFP	RAF	RAF/SG	HV	HV		
	0	2018/05/14	ISSUED FOR 90% REVIEW	RAF	RAF/SG	HV	HV		
ISSREV	YYYY-MM-DD			DES	DRN	CHK	PM		

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CLIENT REF. NO:	----



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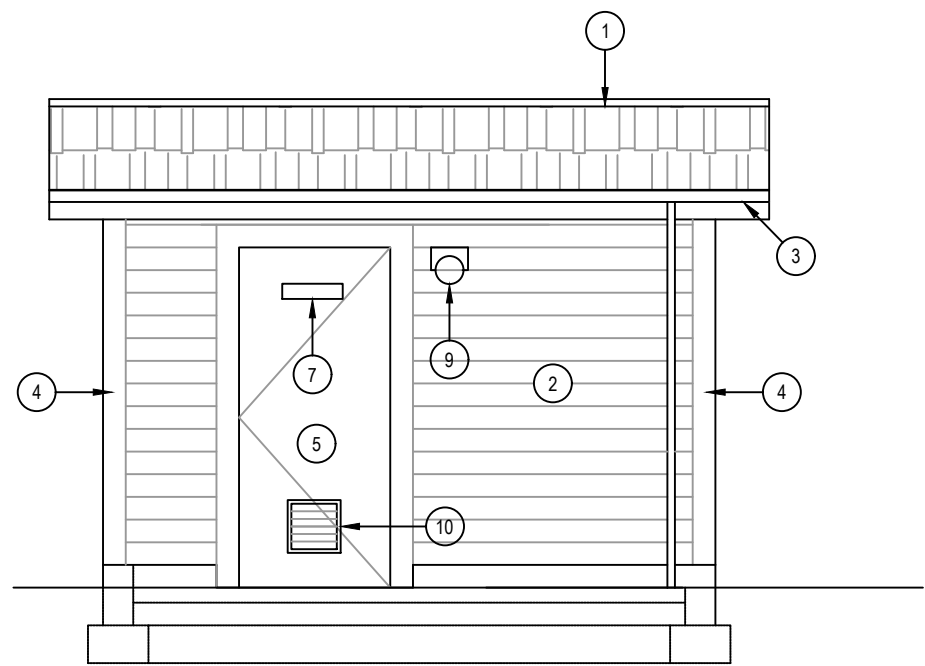
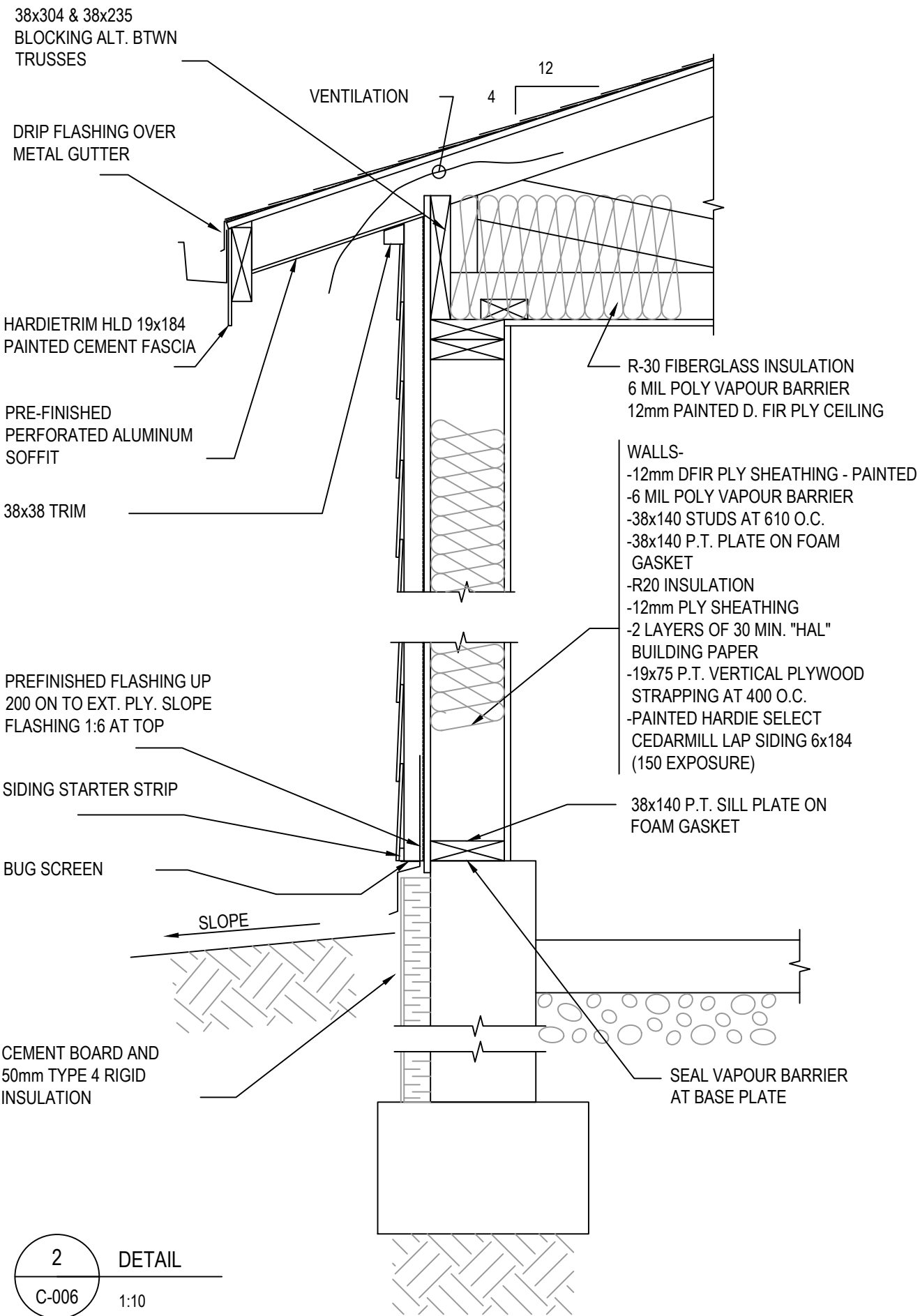
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PROJECT NO:	181-00107-00
SCALE:	AS NOTED
DISCIPLINE:	MUNICIPAL INFRASTRUCTURE

TITLE:	BUILDING DETAILS 1
DRAWING NO:	C-005
SHEET NO:	5 OF 9
ISSUE:	ISSUED FOR RFP
DISCIPLINE:	25 JUNE 2018
ISSREV:	1

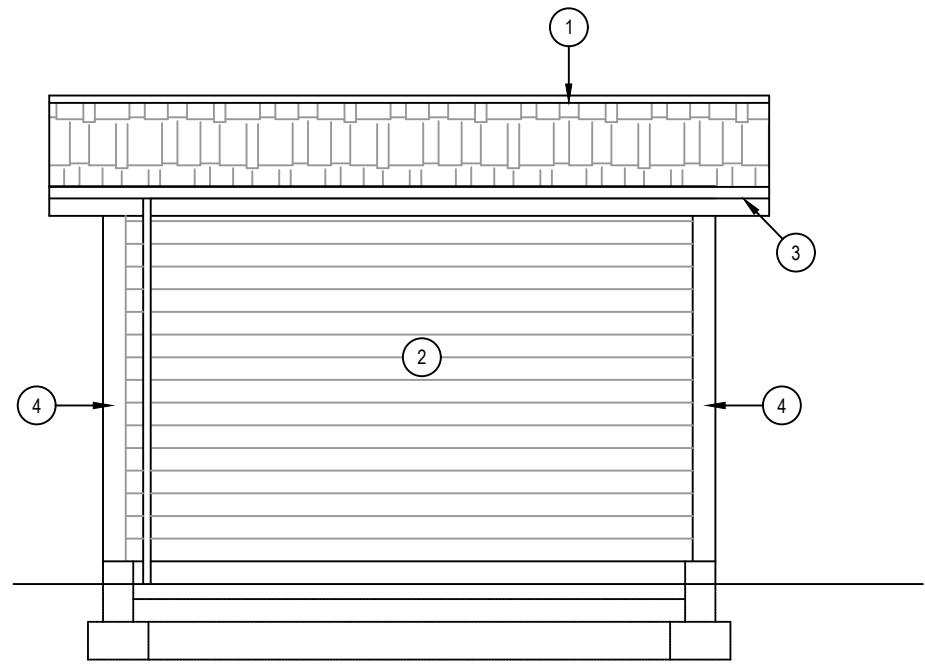
LEGEND

- ① 40 YR. FIBERGLAS ASPHALT SHINGLES c/w RIDGE VENT FOR FULL LENGTH OF ROOF
- ② PAINTED HARDIE CEMENT SIDING - COLOUR BY OWNER
- ③ ALUMINUM GUTTER ON HARDIETRIM - COLOUR BY OWNER
- ④ PAINTED HARDIE TRIM
- ⑤ 915mm X 2032mm x 44.5mm HOLLOW METAL DOOR WITH INSULATED CORE COMPLETE WITH 50mm HOLLOW METAL WELDED FRAMES PAINTED TO OWNER SPEC. c/w INTERIOR PANIC BAR
- ⑥ 19x302 PAINTED HARDIE TRIM WITH PRE-FINISHED FLASHING
- ⑦ 400x100 FIBREGLASS SIGNAGE "DANGER CHLORINE ROOM"
- ⑧ "WATERWORKS PUMP CONTROL BUILDING" 19mm PLYWOOD SIGN BOARD PAINTED WHITE WITH 50mm HIGH BLACK LETTERING
- ⑨ EXTERIOR MOTION-DETECTOR LIGHT WITH HIGH IMPACT PLASTIC LENS C/W PHOTO CELL. HUBBEL PERIMALUX NRG-301-PC OR APPROVED ALTERNATE.
- ⑩ 300x300 EXHAUST LOUVER.
- ⑪ MIN. 200 CFM WALL FAN (BLOWS IN) C/W GRAVITY DAMPERS AND SECURITY GRATE. WIRED TO OPERATE WITH LIGHTS AND HUMIDITY SENSOR

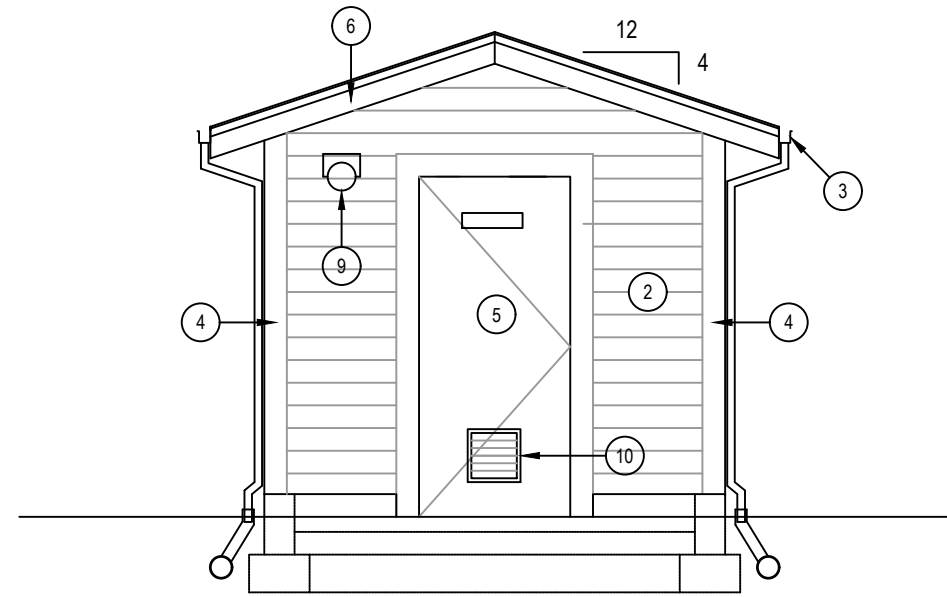
ATTIC VENTILATION TO MEET B.C. BUILDING CODE REQUIREMENTS: ROOF VENTING UNOBSTRUCTED AREA SHALL NOT BE LESS THAN 1/300 OF THE INSULATED CEILING AREA.



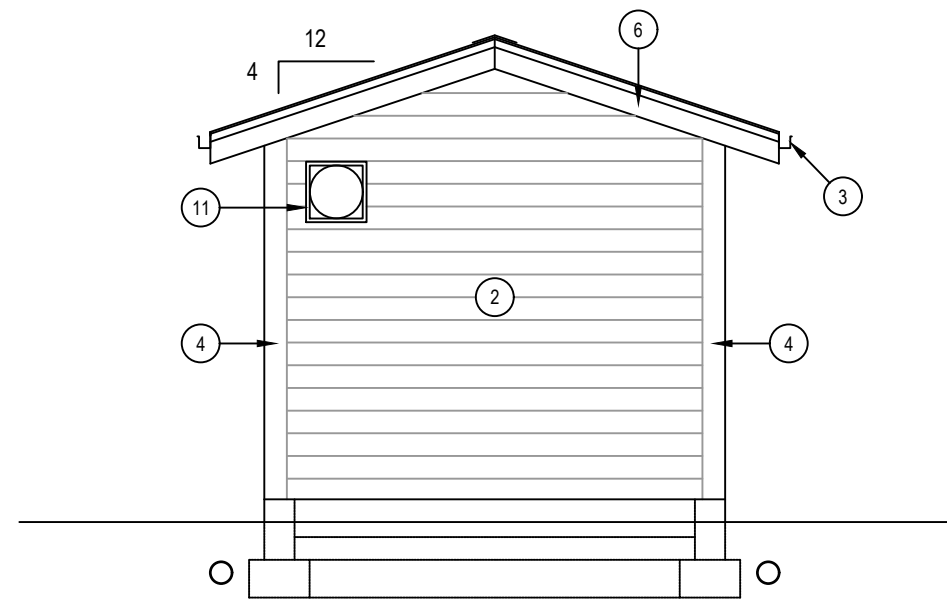
A NORTH ELEVATION
C-006 1:50



C SOUTH ELEVATION
C-006 1:50



B WEST ELEVATION
C-006 1:50



D EAST ELEVATION
C-006 1:50

ROOF FIELD UNDERLAYMENT:
GLASS FIBRE BASE SBS BITUMEN SHEET PRODUCT COMPANION TO ROOFING SHINGLE AND RECOMMENDED BY SHINGLE MANUFACTURER C/W 25mm DIA. HEAD NAILS.

EAVE UNDERLAYMENT MEMBRANE:
MINIMUM 1mm THICK SELF-ADHERING COMPOSITE SHEET MEMBRANE COMPRISED OF 0.8mm THICK RUBBERIZED ASPHALT INTEGRALLY BONDED TO 0.1mm POLYETHYLENE.

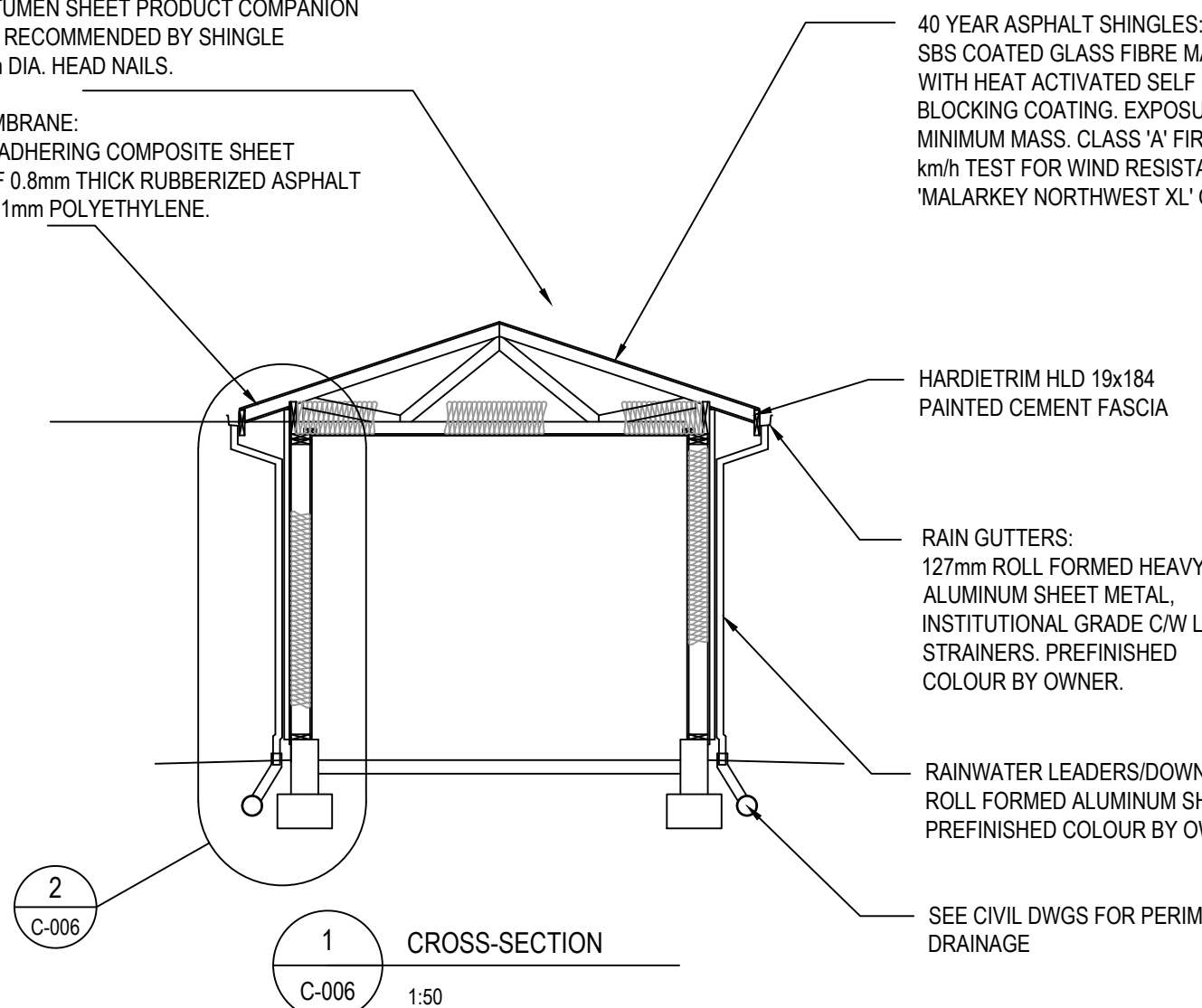
40 YEAR ASPHALT SHINGLES:
SBS COATED GLASS FIBRE MAT, LAMINATED CONSTRUCTION WITH HEAT ACTIVATED SELF SEALING, WITH ALGAE BLOCKING COATING. EXPOSURE 140mm TO 145mm. 12.5 kg/m2 MINIMUM MASS. CLASS 'A' FIRE RESISTANCE. PASSES 121 km/h TEST FOR WIND RESISTANCE. COLOUR BY OWNER. 'MALARKEY NORTHWEST XL' OR EQUAL.

HARDIETRIM HLD 19x184
PAINTED CEMENT FASCIA

RAIN GUTTERS:
127mm ROLL FORMED HEAVY ALUMINUM SHEET METAL, INSTITUTIONAL GRADE C/W LEAF STRAINERS. PREFINISHED COLOUR BY OWNER.

RAINWATER LEADERS/DOWNPIPES:
ROLL FORMED ALUMINUM SHEET METAL, PREFINISHED COLOUR BY OWNER

SEE CIVIL DWGS FOR PERIM DRAINAGE



ISLAND HEALTH WATER SYSTEM CONSTRUCTION PERMIT W-S-XXXX

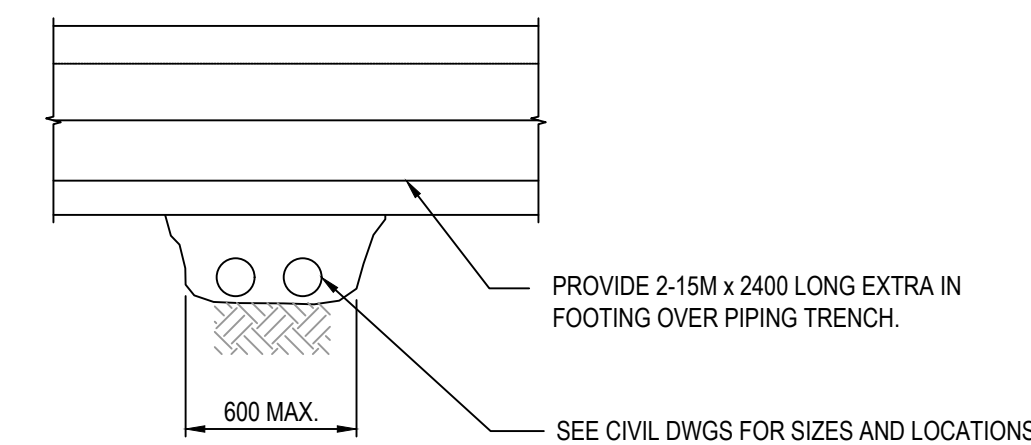
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1	2018/06/25	ISSUED FOR RFP		RAF	RAF/SG	HV	HV
0	2018/05/14	ISSUED FOR 90% REVIEW		RAF	RAF/SG	HV	HV

CLIENT:			
COWICHAN VALLEY REGIONAL DISTRICT			
CLIENT REF. NO:			

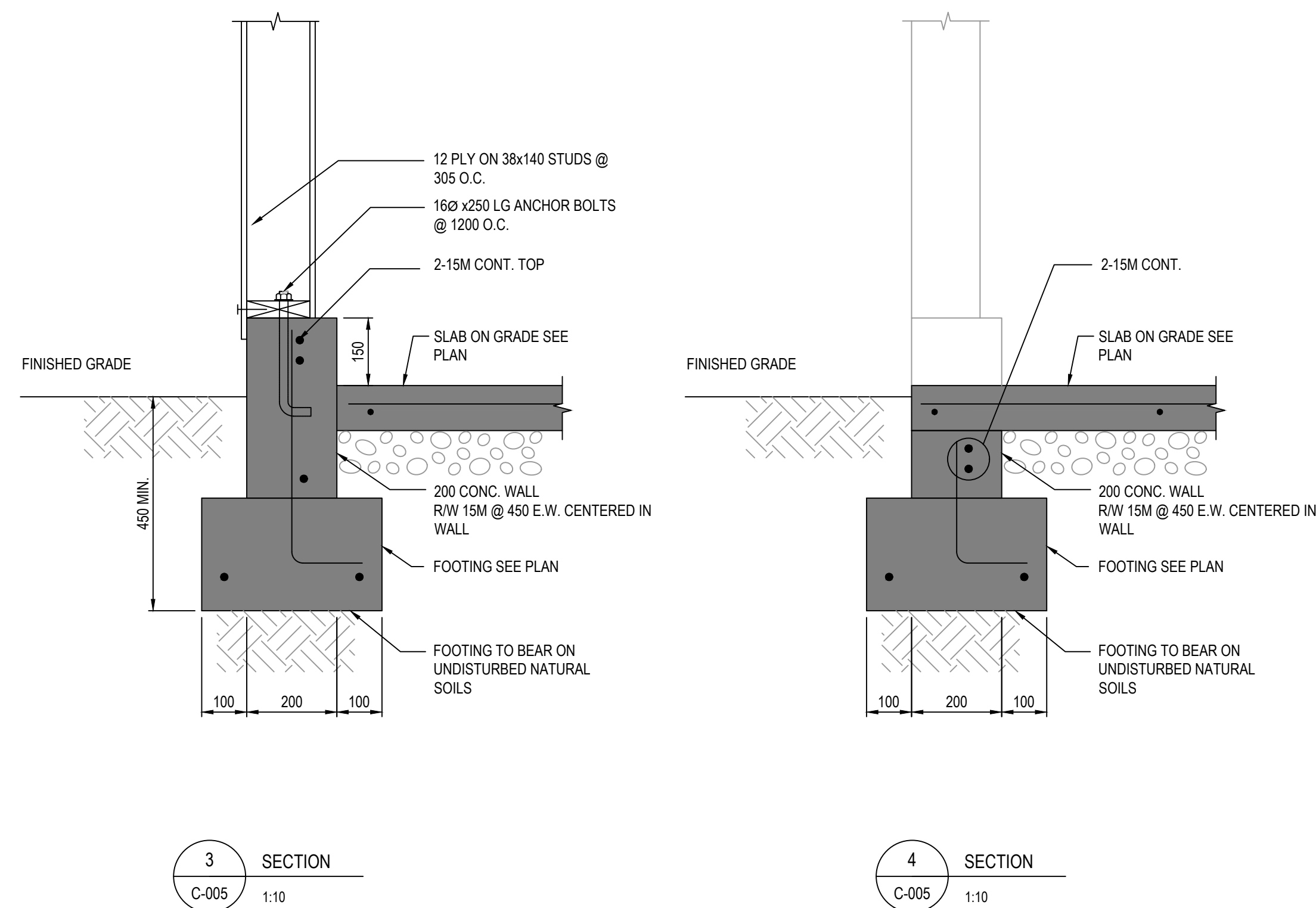
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BURNUM WATER SYSTEM SYSTEM IMPROVEMENTS	
PROJECT NO: 181-00107-00	
SCALE: AS NOTED	
DISCIPLINE: MUNICIPAL INFRASTRUCTURE	

TITLE:	
BUILDING DETAILS 2	
DRAWING NO: C-006	
SHEET NO: 6 OF 9	
ISSUE: ISSUED FOR RFP	
25 JUNE 2018	

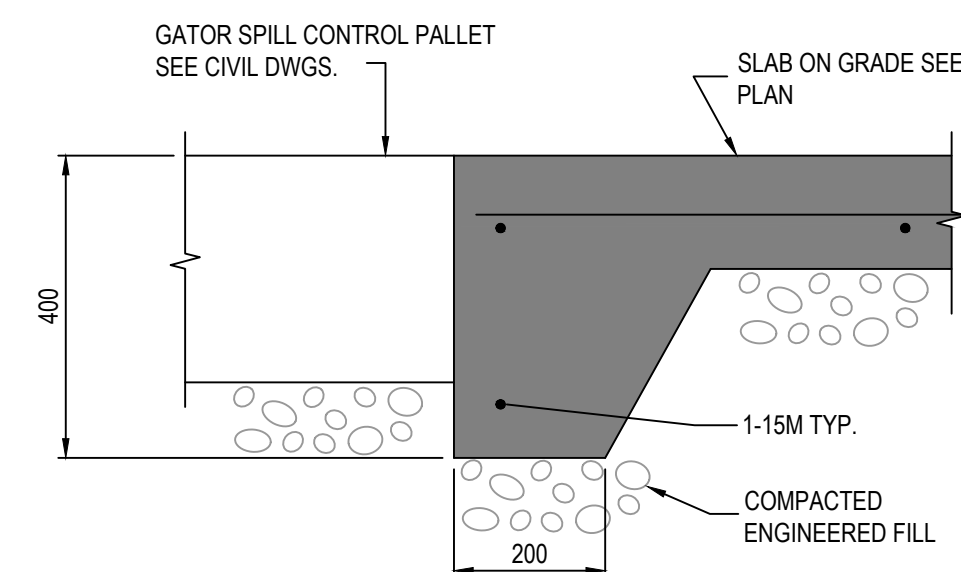
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A TYP. PIPING BELOW FOOTING SECTION
C-005 1:20



B SECTION
C-005 1:10



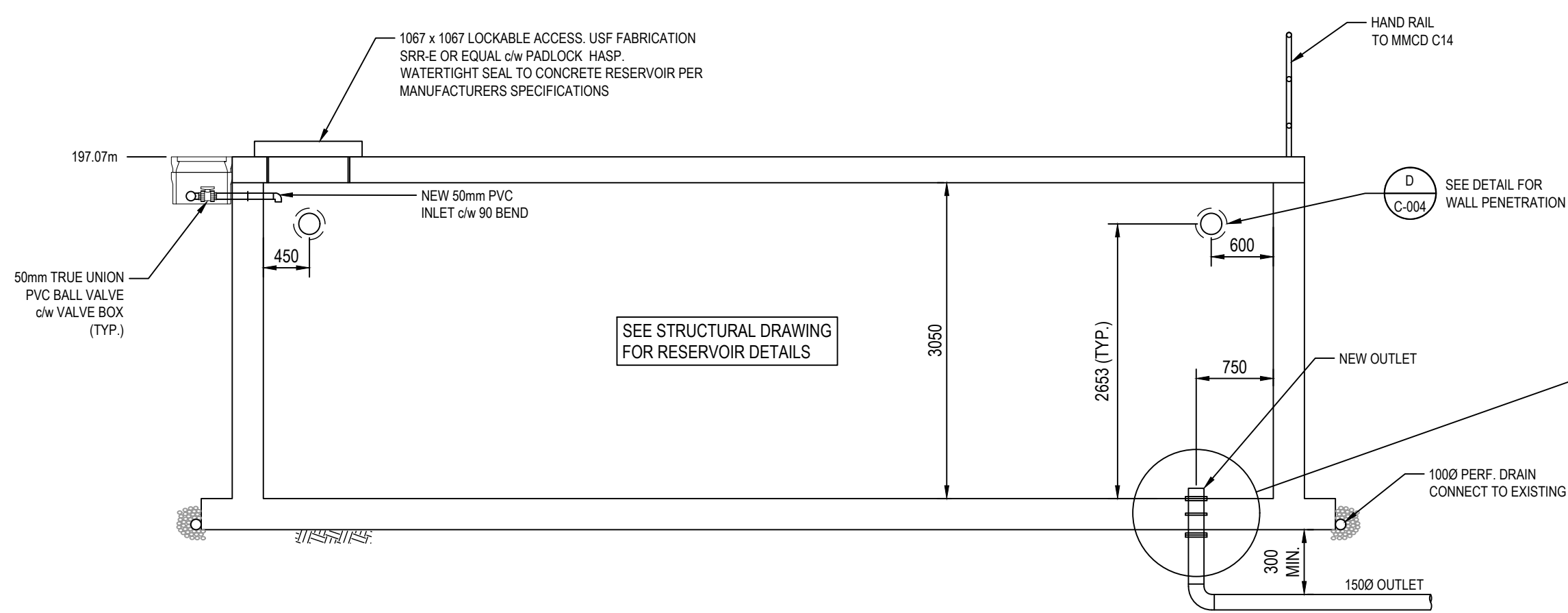
B SECTION
C-005 1:10

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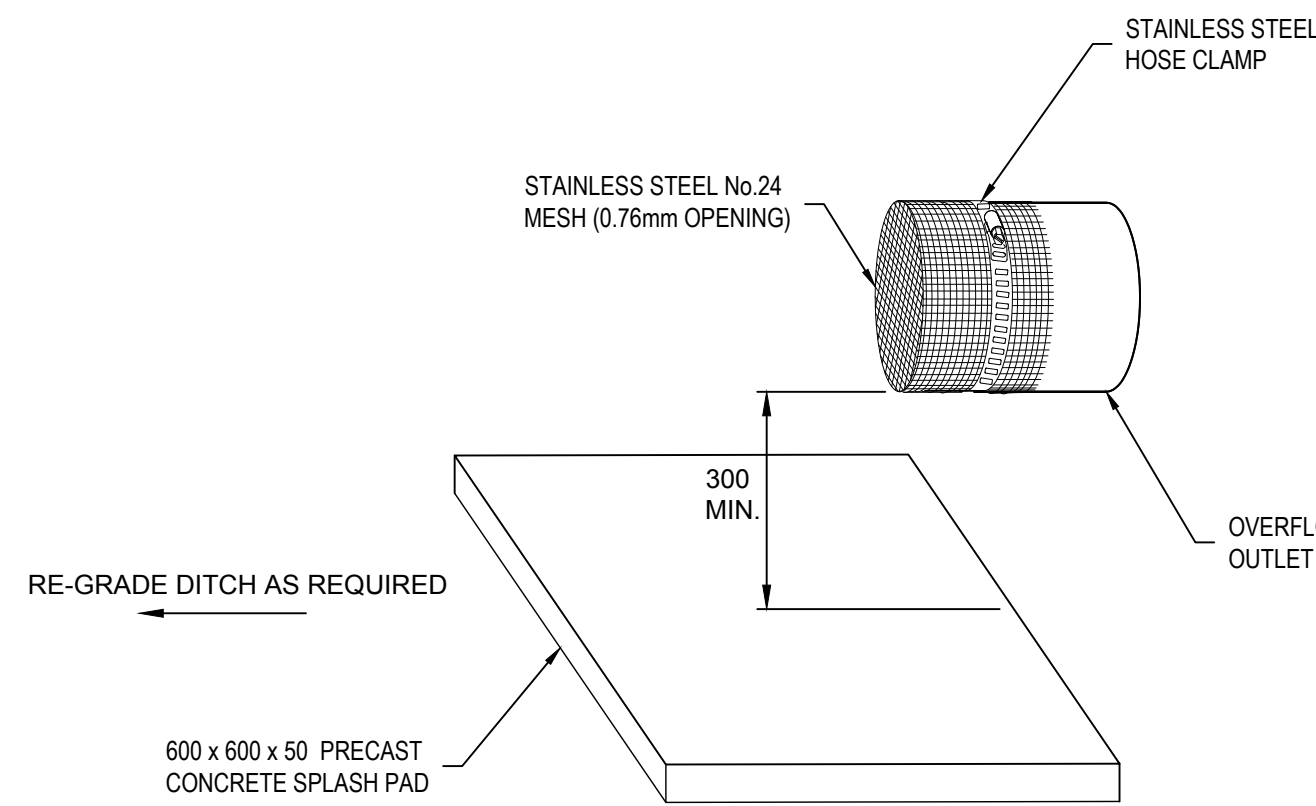
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PROJECT NO: 181-00107-00	
SCALE: ----	
DISCIPLINE:	MUNICIPAL INFRASTRUCTURE

TITLE:		BUILDING DETAILS 3	
DRAWING NO:		C-007	
SHEET NO:		7	OF 9
ISSUE:	ISSUED FOR RFP		ISSREV:
25 JUNE 2018			1

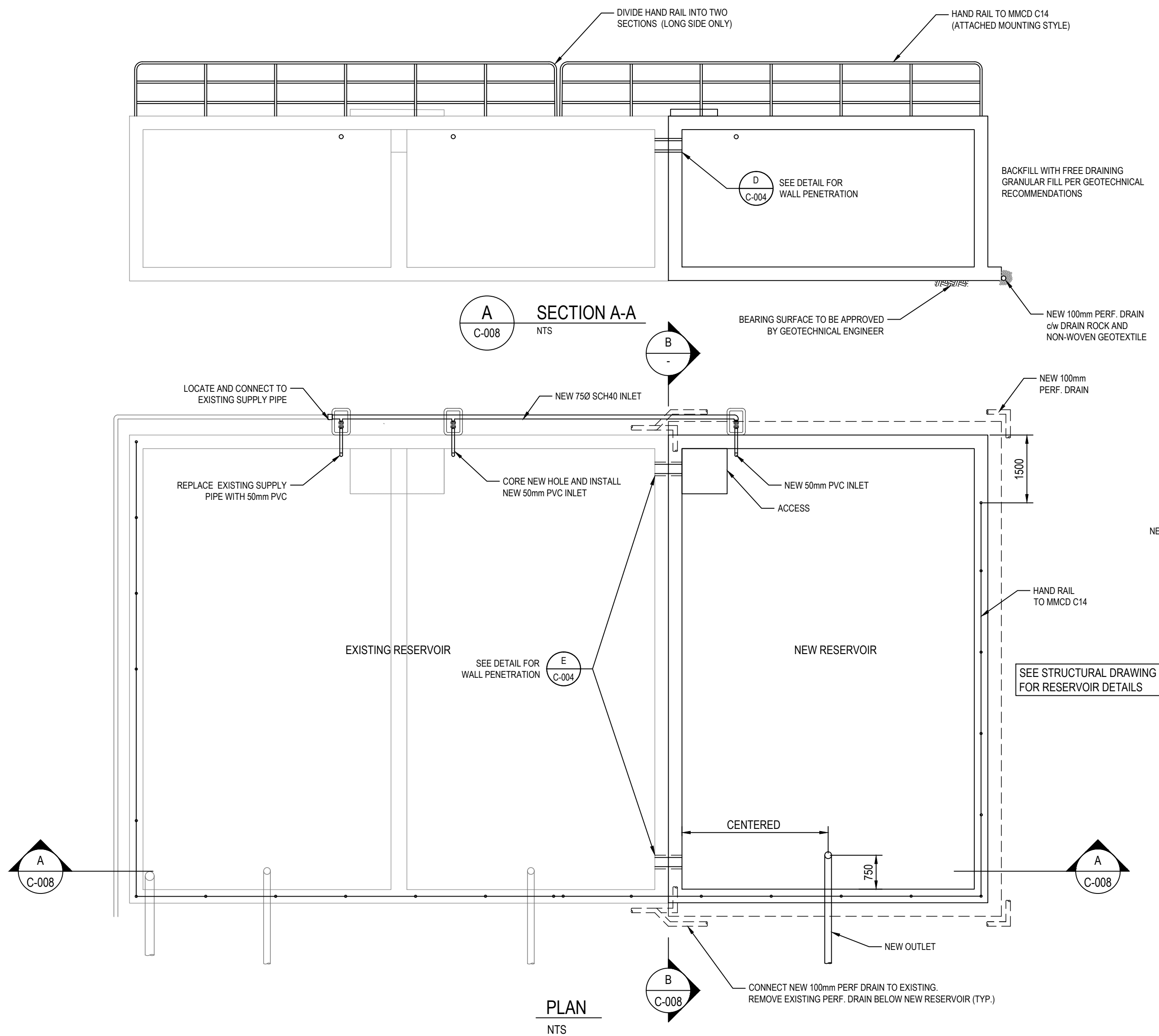


PIPE SIZE, LOCATION AND ORIENTATION OF EXISTING RESERVOIR SUPPLY TO BE CONFIRMED BY SITE INVESTIGATION

B
C-008
SECTION B-B
NTS



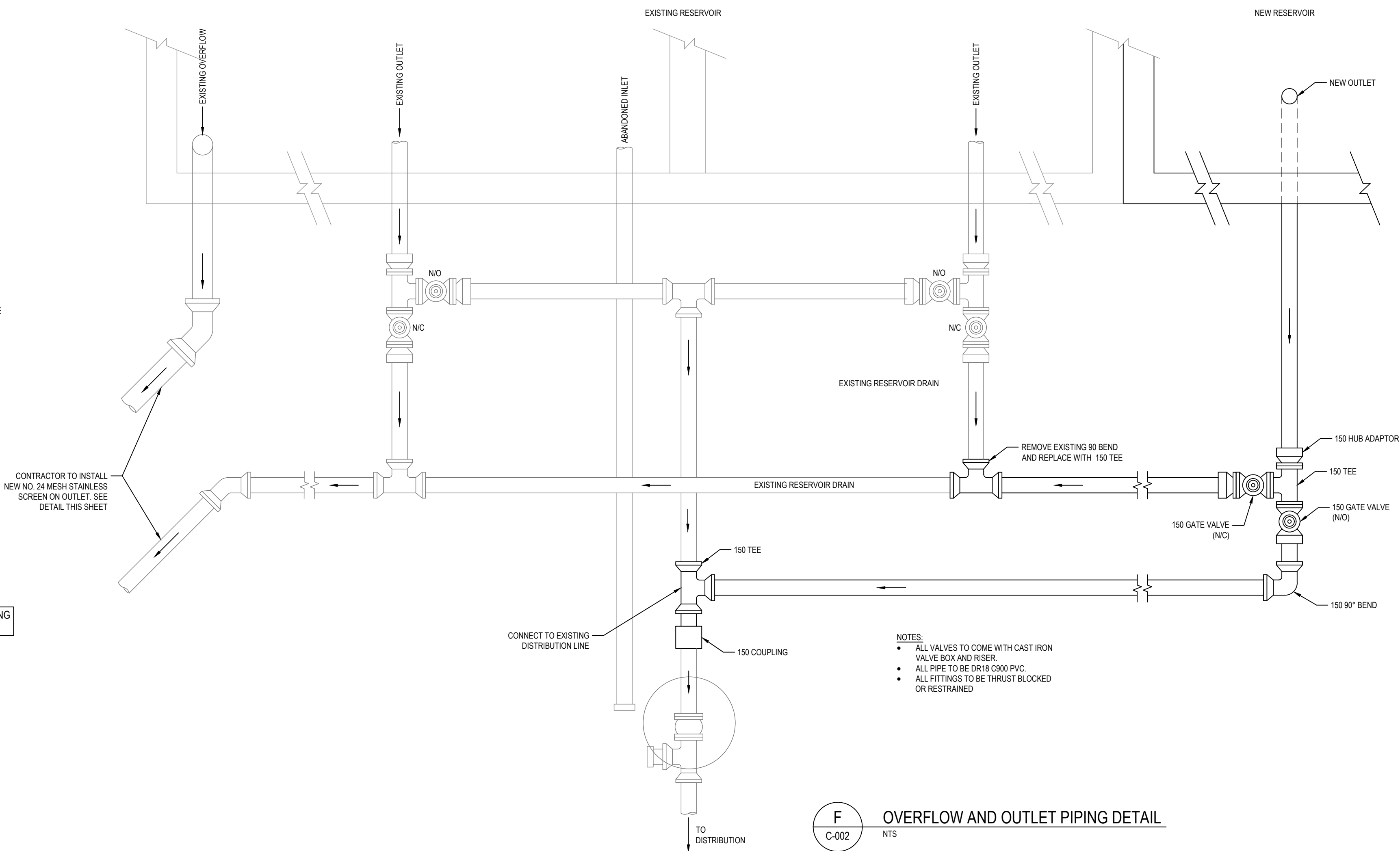
E
C-002
RESERVOIR OUTLET SCREEN
NTS



A
C-008
SECTION A-A
NTS

B
C-008
SECTION B-B
NTS

PLAN
NTS



- NOTES:
- ALL VALVES TO COME WITH CAST IRON VALVE BOX AND RISER.
 - ALL PIPE TO BE DR18 C300 PVC.
 - ALL FITTINGS TO BE THRUST BLOCKED OR RESTRAINED

F
C-002
OVERFLOW AND OUTLET PIPING DETAIL
NTS

ISLAND HEALTH WATER SYSTEM CONSTRUCTION PERMIT W-S-XXXX

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THIS DRAWING IS NOT TO BE SCALED.							
1	2018/06/25	ISSUED FOR RFP		RAF	RAF/SG	HV	HV
0	2018/05/14	ISSUED FOR 90% REVIEW		RAF	RAF/SG	HV	HV
ISS/REV	YYYY-MM-DD		DESCRIPTION	DES	DRN	CHK	PM

COWICHAN VALLEY REGIONAL DISTRICT

wsp

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Victoria BC, Canada
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BURNUM WATER SYSTEM
SYSTEM IMPROVEMENTS

PROJECT NO:
181-00107-00

SCALE:
AS NOTED

DISCIPLINE:
MUNICIPAL INFRASTRUCTURE

RESERVOIR PIPING
DETAILS

DRAWING NO:

C-008

SHEET NO:

8 OF 9

ISSUED FOR RFP

25 JUNE 2018

ISS/REV:

1

GENERAL NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR BUILDING (INCLUDING EXISTING STRUCTURAL MEMBER SIZES) PRIOR TO COMMENCEMENT OF WORK AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND ABOUT THE JOB SITE DURING CONSTRUCTION.
3. CONTRACTOR TO ENSURE THAT ALL WORK IS CARRIED OUT BY THE RULES AND CUSTOMS OF THE BEST TRADE PRACTICES AND THEIR SPECIFICATIONS BY SKILLED TRADES PEOPLE KNOWLEDGEABLE OF THE TYPE OF CONSTRUCTION. THEY ARE TO BE PROPERLY EQUIPPED AND SUPERVISED.
4. NOTIFY WSP 24 HOURS IN ADVANCE FOR CONSTRUCTION REVIEW OF THE STRUCTURAL PORTION OF THE BUILDING AS SHOWN ON THE STRUCTURAL DRAWINGS.
5. SEE CIVIL DRAWINGS FOR SLEEVES, INSERTS, ETC. TO BE ENCASED IN CONCRETE.
6. STRUCTURAL DESIGN DATA

a. ENGINEER OF RECORD: JAMES GALLOWAY P.ENG

b. DESIGN CODE - ACI 350 SEISMIC DESIGN OF LIQUID-CONTAINING CONCRETE STRUCTURES

- CSA A23.3 - DESIGN OF CONCRETE STRUCTURES

DESIGN PARAMETERS	COBBLE HILL				
STRUCTURE IMPORTANCE CATEGORY	POST DISASTER				
SNOW LOAD PARAMETERS					
	S _s = 2.2 kPa	S _r = 0.30 kPa	I _s [ULS] = 1.25	I _s [SLS] = 0.9	
SEISMIC PARAMETERS					
	S _h (0.2) = 1.2 S _h (0.5) = 1.107 S _h (1.0) = 0.646 S _h (2.0) = 0.385 PGA = 0.526				
	I _e = 1.5 [POST DISASTER]				
SITE CLASS:	D [SEE GEOTECHNICAL REPORT]				
SFRS	MODERATELY DUCTILE SHEAR WALLS				
DUCTILITY	R _d = 2.0 (WALLS & IMPULSIVE PRESSURE) R _d = 1.0 (CONNECTIVE PRESSURES) R _o = 1.4				
ANALYSIS METHOD:	EQUIVALENT STATIC ANALYSIS				
DESIGN LOADS					
GRAVITY					
		SNOW (kPa)	LIVE (kPa)	DEAD (kPa)	PARTITION (kPa)
ROOF		2.58	9.80	6.00	-

FOUNDATION NOTES

1. FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING ALLOWABLE (WORKING STRESS) BEARING PRESSURES OF 150 kN/m2 IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED BY WSP CANADA INC, DATED FEBRUARY 9, 2018.
2. BEARING SURFACES MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONCRETE BEING PLACED. WSP IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.
3. REFER TO GEOTECHNICAL REPORT FOR OTHER SPECIFIC DESIGN REQUIREMENTS FOR FOOTINGS, SOIL SLOPES, FROST PROTECTION, MINIMUM COVER, ETC.
4. DOWELS AND ANCHOR BOLTS SHALL BE PLACED BEFORE CONCRETE IS PLACED. USE TEMPLATES TO ENSURE CORRECT PLACEMENT OF DOWELS.
5. FOOTINGS MAY HAVE TO BE LOWERED TO ACCOMMODATE MECHANICAL OR ELECTRICAL SERVICES. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ELEVATIONS OF SAME. DO NOT UNDERMINE FOOTINGS BY EXCAVATIONS FOR SERVICES, PITS, ETC.
6. FOOTINGS ELEVATIONS, IF SHOWN, ARE FOR BIDDING PURPOSES ONLY. ARE NOT FINAL, AND MAY VARY ACCORDING TO SITE CONDITIONS. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE GEOTECHNICAL ENGINEER.
7. PROTECT BEARING SURFACES FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.
8. SUB-BASE DESIGN OF SOIL UNDER THE SLAB ON GRADE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

CONCRETE AND REINFORCING NOTES

1. CONCRETE TO BE READY MIX CONCRETE CONFORMING TO THE CURRENT STANDARD CSA A23.1/A23.2. CEMENT TO BE TYPE GU OR GUB HYDRAULIC CEMENT CONFORMING TO CSA A3000. USE ADMIXTURES ONLY WITH WRITTEN APPROVAL OF THE ENGINEER.
2. REINFORCEMENT TO BE BILLET STEEL CONFORMING TO THE REQUIREMENTS OF CSA G30.18/RW GRADE 400 REINFORCING.
3. CONCRETE PROTECTION ON PRINCIPAL REINFORCING SHALL BE AS FOLLOWS:

SURFACES PLACED IN CONTACT WITH GROUND: 75mm [3"]

FORMED SURFACES EXPOSED TO GROUND OR WEATHER: 50mm [2"]
4. A CSA CERTIFIED MATERIALS TESTING LABORATORY SHALL BE APPOINTED TO REVIEW CONCRETE MIXES AND TO GATHER AND TEST CONCRETE CYLINDERS. COPIES OF TEST RESULTS TO BE SENT TO THE STRUCTURAL ENGINEER AND CONTRACTOR.

a. A SUFFICIENT NUMBER OF TESTS SHALL BE MADE TO ENSURE A UNIFORM SLUMP OF CONCRETE. A SLUMP TEST SHALL BE MADE WITH EVERY STRENGTH TEST AND EVERY SECOND OR THIRD AIR TEST.

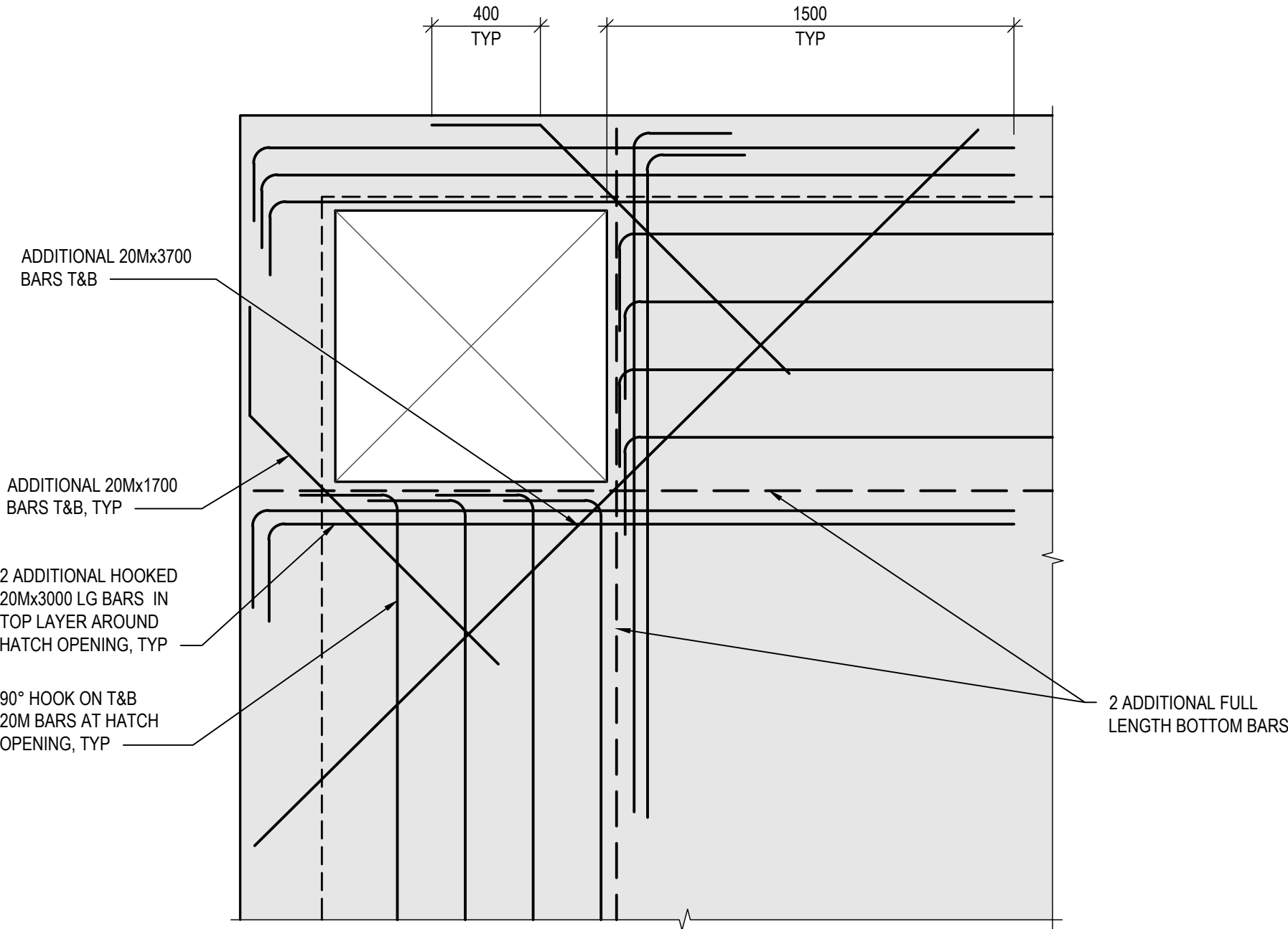
b. AN AIR CONTENT DETERMINATION SHALL BE MADE WITH EVERY STRENGTH TEST.

c. NOT LESS THAN ONE STRENGTH TEST (SET OF THREE CYLINDERS) SHALL BE MADE FOR EACH 100 CUBIC METERS OF CONCRETE PLACED, AND IN NO CASE SHALL THERE BE FEWER THAN ONE TEST FOR EACH CLASS OF CONCRETE PLACED ON ANY ONE DAY, AS DESIGNATED BY THE OWNER. WHEN HIGH-PERFORMANCE OR HIGH-STRENGTH CONCRETE IS INVOLVED, OR WHERE STRUCTURAL REQUIREMENTS ARE CRITICAL, THE OWNER MAY REQUIRE A HIGHER FREQUENCY OF TESTING, WHICH SHALL BE DEFINED IN THE CONTRACT DOCUMENTS.
5. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND HOOKED AT WALL INTERSECTIONS. ADD 2-15M CONT AT TOPS AND ENDS OF WALLS. UNLESS OTHERWISE NOTED, HOOK AND LAP LENGTHS AS FOLLOWS:

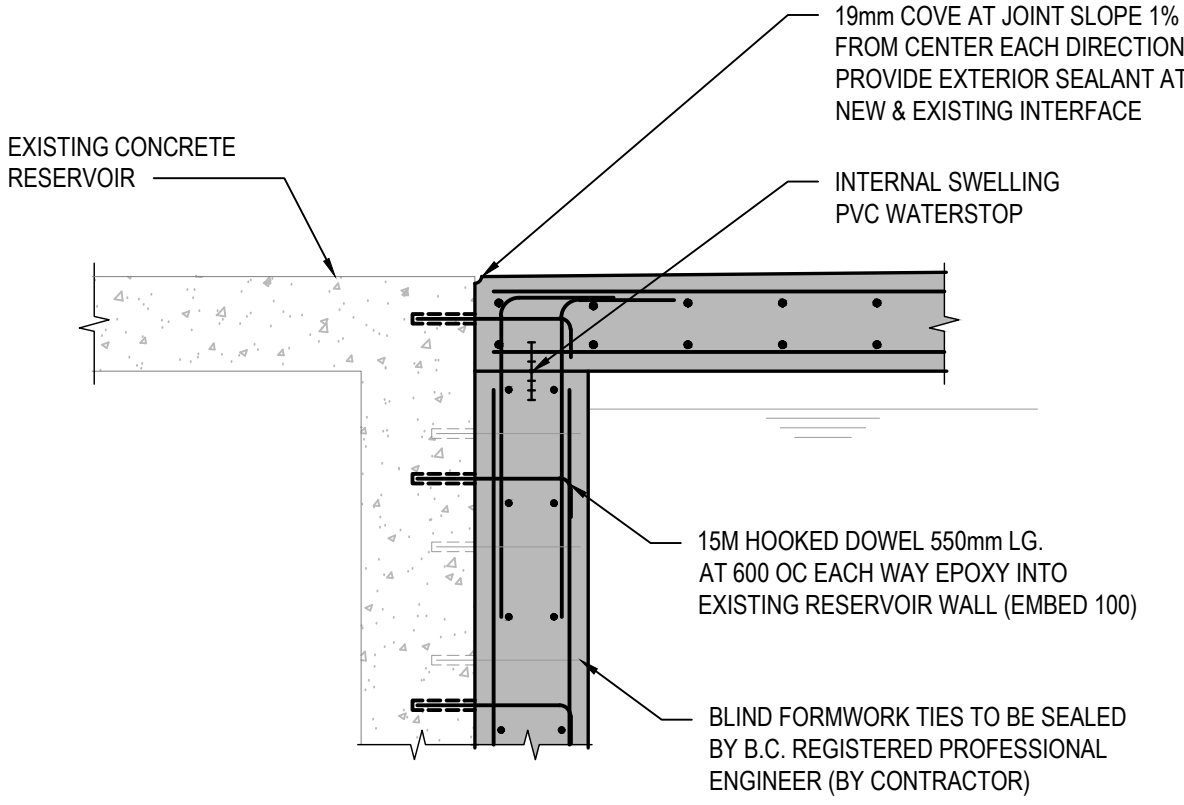
BAR SIZE	VERT LAP	HORL LAP	HOOK LENGTH
10M	430mm [17"]	500mm [20"]	180mm [7"]
15M	600mm [24"]	800mm [32"]	250mm [10"]
20M	750mm [30"]	1000mm [40"]	300mm [12"]
6. ADD 2-15M PARALLEL TO EACH SIDE OF OPENINGS IN WALLS AND SLABS, EXTENDING 600mm [24"] BEYOND CORNERS UNLESS OTHERWISE SHOWN.
7. REINFORCING SHALL BE PLACED AND BENT IN ACCORDANCE WITH CSA A23.1.
8. REINFORCING BARS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT PRIOR TO PLACING OF CONCRETE.
9. DO NOT DISTURB FORMWORK FOR SLABS AND BEAMS UNTIL 2/3 CONCRETE DESIGN STRENGTH HAS BEEN ACHIEVED. RESHORE SLABS AND BEAMS UNTIL CONCRETE HAS ATTAINED 28 DAY DESIGN STRENGTH. SHORING AND FALSEWORK SHALL BE ERECTED IN ACCORDANCE THE WORKSAFE B.C. OHS GUIDELINES.
10. STEEL REINFORCING PLACER SHALL BE PRESENT DURING ALL CONCRETE POURS TO ENSURE THAT THE REINFORCING STEEL REMAINS IN THE CORRECT POSITIONS.
11. UNLESS OTHERWISE NOTED, SLAB REINFORCING NOT TO BE CUT AT PLUMBING, DUCTS, OR AROUND OTHER OPENINGS. SPREAD REINFORCING AROUND OPENINGS.
12. ALL CONCRETE IS TO BE VIBRATED.

CONCRETE RESERVOIR NOTES

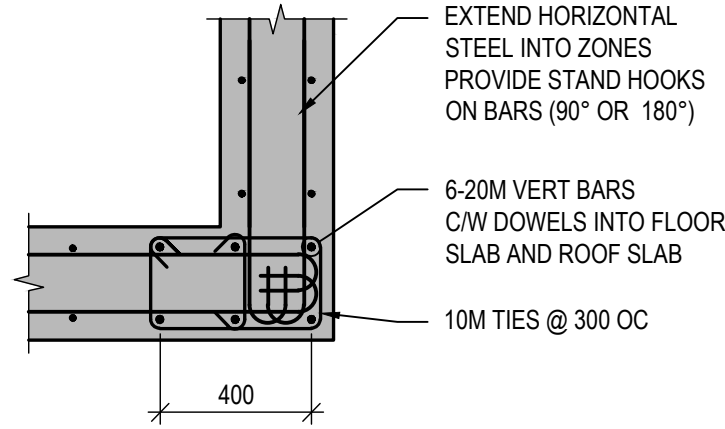
1. CONTRACTOR SHALL SUBMIT A DETAILED CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO PLACING CONCRETE. CONCRETE MIX SHALL INCLUDE A XYPEX ADMIXTURE.
2. ALL CONCRETE CHEMICAL ADMIXTURES TO MEET THE REQUIREMENTS OF ASTM C494 FOR POTABLE WATER.
3. ANY FLY ASH OR PORZELLAN ADDED TO THE CEMENT MIXTURE PROVIDED THE MATERIAL USED MEETS THE REQUIREMENTS OF NSF/ANSI 61 OR AN ANSI-ACCREDITED SOAK TEST SHALL BE COMPLETED ON THE CONCRETE MIXTURE.
4. PRIOR TO BACKFILLING THE CONCRETE RESERVOIR SHALL BE TIGHTNESS TESTED IN ACCORDANCE WITH ACI 350.1. TO ENSURE NO LEAKS ARE PRESENT.
5. CONTRACTOR SHALL ENSURE ALL HOLES/OPENINGS IN THE TANK REQUIRED FOR ERECTION ARE SEALED UPON REMOVAL OF FORMWORK.



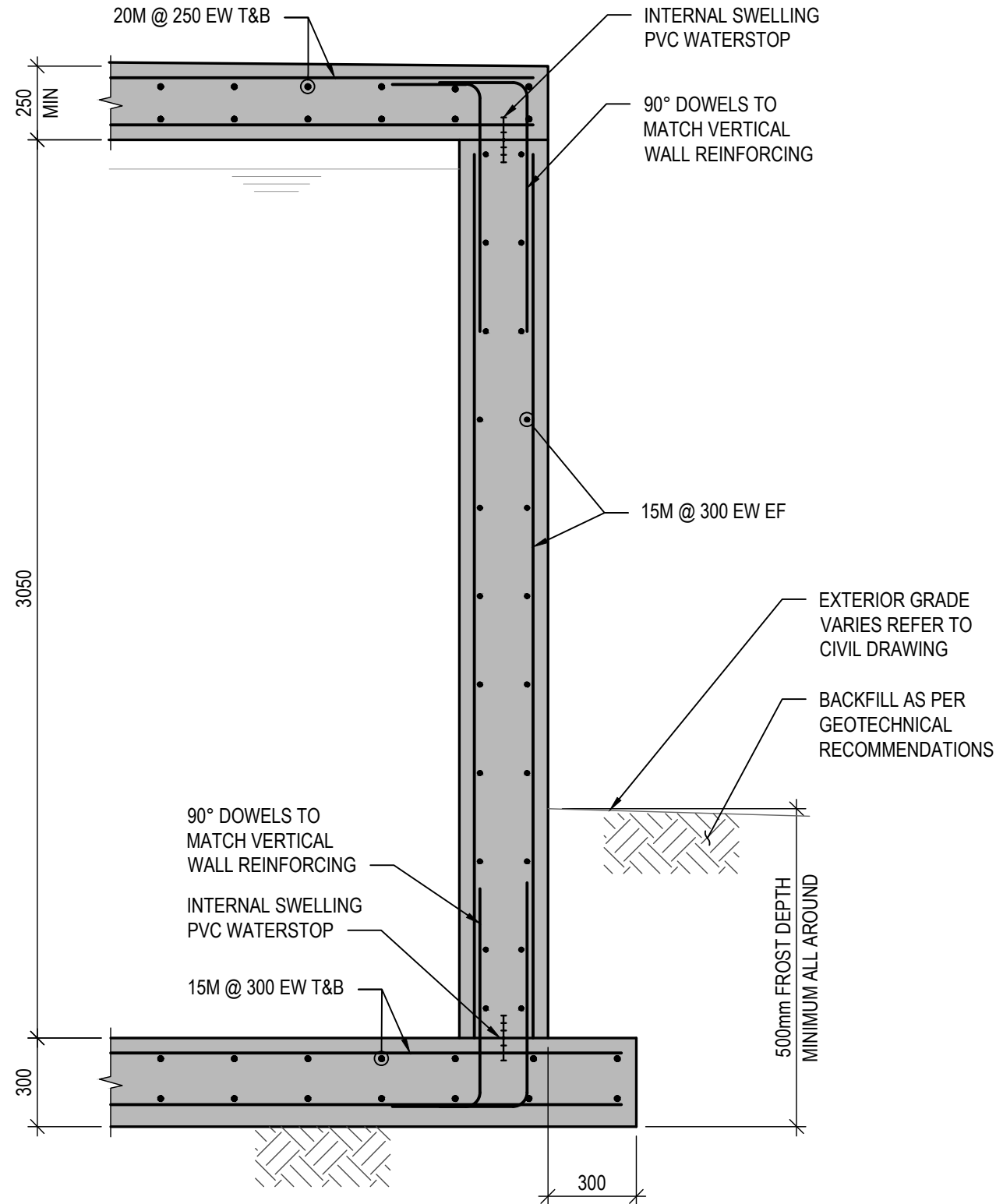
4
S-001 1:20
ADDITIONAL REINFORCING
AROUND ACCESS HATCH



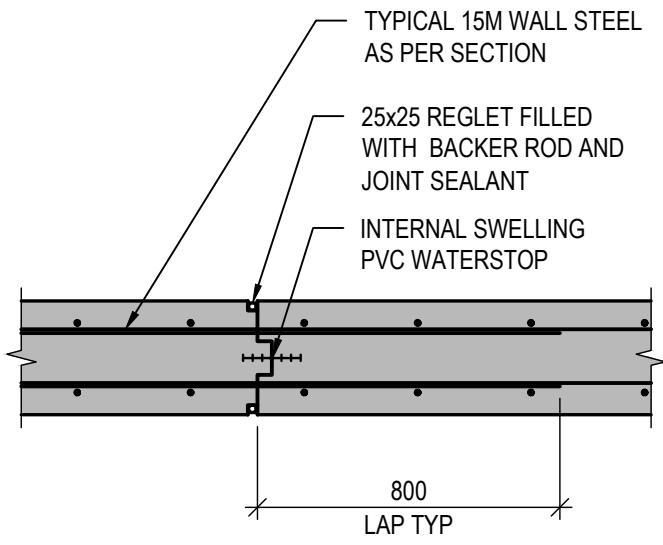
6
S-001 1:20
EXISTING RESERVOIR INTERACTION



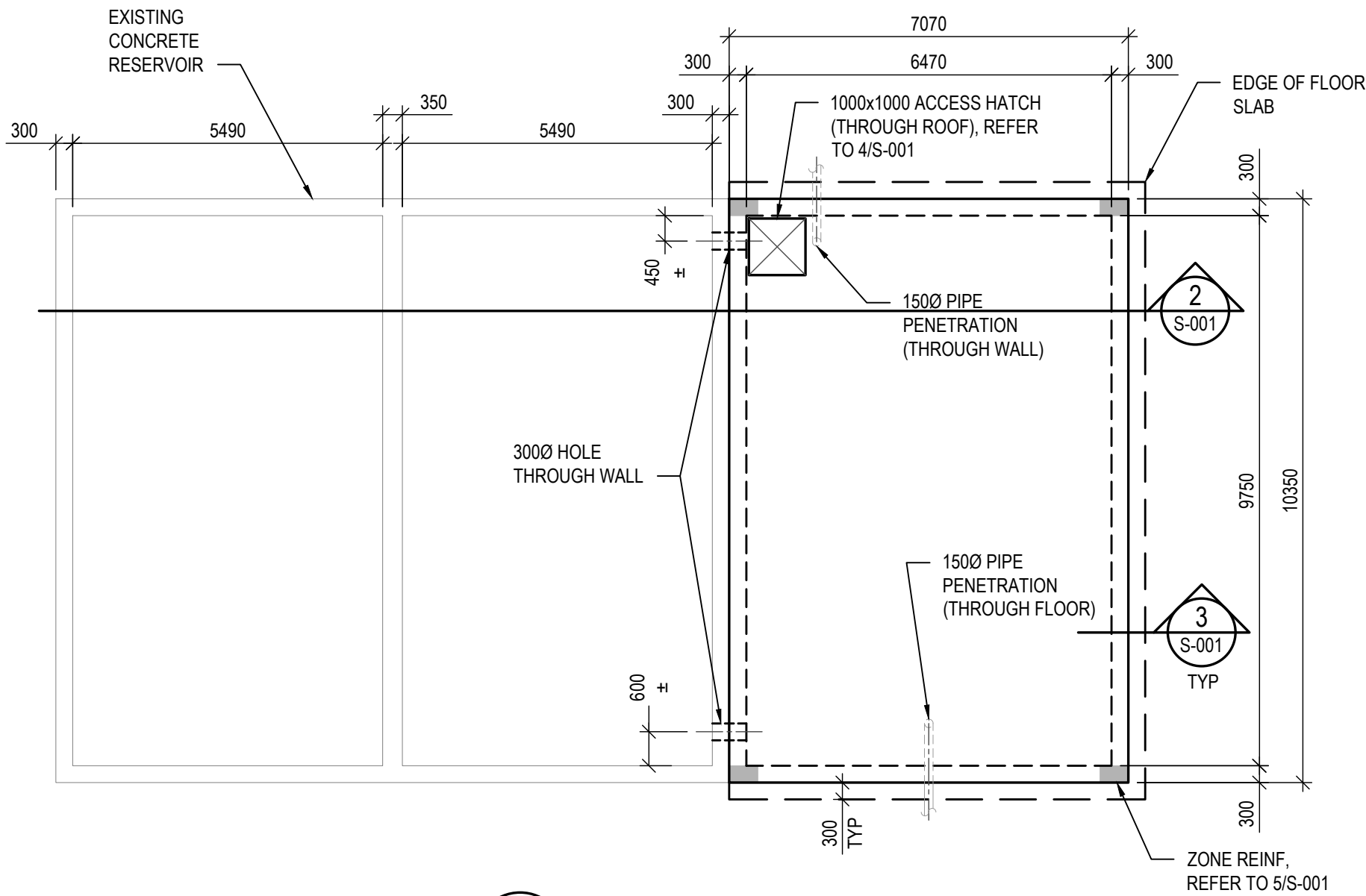
5
S-001 1:20
TYPICAL ZONE REINF



3
S-001 1:20
TYPICAL WALL SECTION

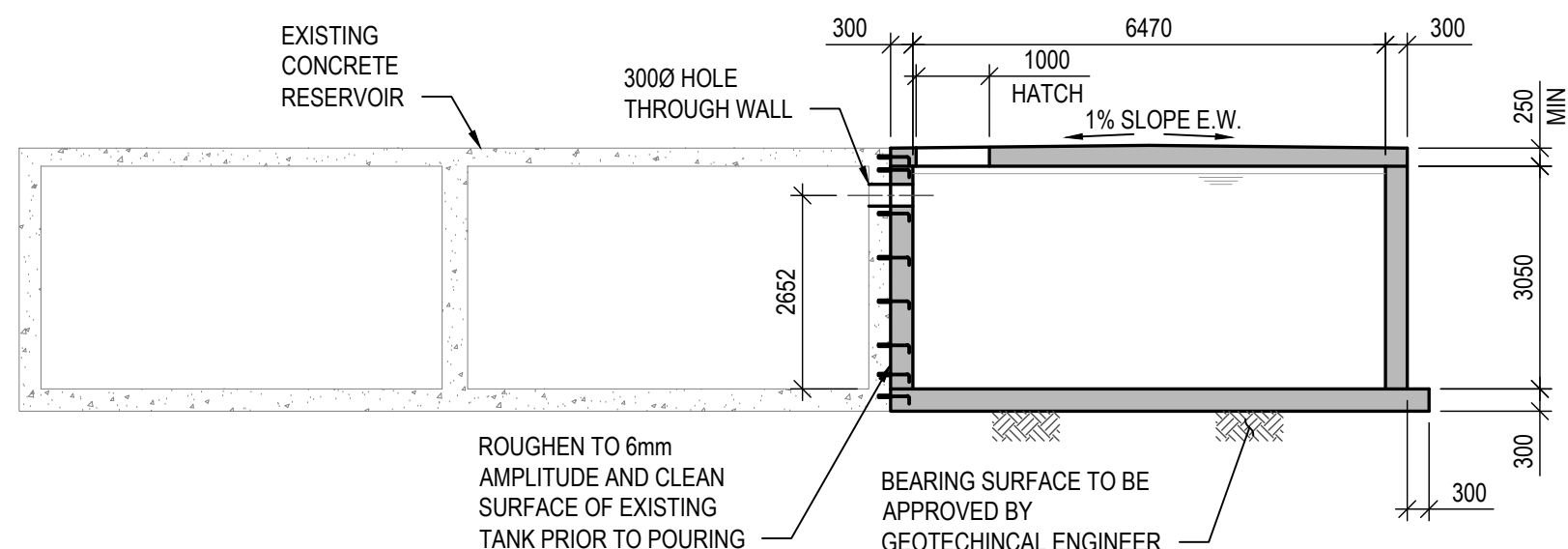


7
S-001 1:20
TYPICAL WALL CONST. JOIST



1
S-001 1:100
PLAN VIEW

LOCATION OF ALL PENETRATIONS AND OPENINGS TO BE CONFIRMED WITH CIVIL DRAWINGS



2
S-001 1:100
SECTION

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1	2018.06.25	ISSUED FOR RFP		DJ	JWG	--	--	
0	2018.05.14	ISSUED FOR REVIEW		DJ	JWG	--	--	
ISS/REV	DATE	DESCRIPTION		DES	CHK	PM		

CLIENT:	COWICHAN VALLEY REGIONAL DISTRICT
CLIENT REF. NO:	--

	PROJECT: BURNUM WATER SYSTEM SYSTEM IMPROVEMENTS		TITLE: NOTES, PLAN, SECTIONS AND DETAILS	
	PROJECT NO: 181-00107-00	DATE: 2018.04.30	DRAWING NO: S-001	
	ORIGINAL SCALE: AS NOTED	DESIGNED BY: DJ	SHEET NO: 9 OF 9	ISS/REV: 1
	DISCIPLINE: STRUCTURAL	DRAWN BY: GM	ISSUED FOR RFP 2018.06.25	