

Tender Documents

Resort Municipality of Whistler

January 2024

2024 Sewer and Water Valve and Fitting Repairs Contract No. E20508 – E32006

ISL

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

TABLE OF CONTENTS

Invitation to Tender INV-1

Instructions to Tenderers – Part I IT-1 to IT-8

Form of Tender FT-1 to FT-10

Form of Agreement AGT-1 to AGT-6

Supplementary Specifications 27 Pages

Supplementary General Conditions SGC-1 to SGC-6

Appendix A: Contract Drawings 7 Pages

Appendix B: Sanitary Bypass Concept Plans 7 Pages

Appendix C: Photo Inventory 20 Pages

Appendix D: RMOW GIS 7 Pages

Appendix E: Record Drawings 4 Pages

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders for: Project works described below:

Sewer:

- Replacement of 13 - fittings (bends, couplings, saddles) on sanitary sewer forcemain
- Investigation of 1 - bend on sanitary sewer forcemain
- Replacement of 2 - couplings on sanitary sewer gravity main
- Bypass required for replacements.

Water:

- Replacement/relocation of 4 - hydrant assemblies
- Replacement of 6 - gate valves ranging from 150mmØ to 200mmØ
- Replacement of 5 – bends
- Replacement of 2 - tees
- Replacement of 1 – blow off assembly

(BRIEF DESCRIPTION OF THE WORK)

Contract Documents are available during normal business hours at:

This Tender is being issued electronically through the RMOW website (www.bcbid.gov.bc.ca) where any interested party may download the Tender documents directly from the aforementioned website. No registration, tracking or other recording of Tender document holders will be performed by the Resort Municipality of Whistler. All addenda, amendments or further information will be published on the BC Bid website. It is the sole responsibility of the Tenderer to monitor the website regularly to check for updates.

(LIST ADDRESSES FOR DOCUMENT PICKUP)

The Contract Documents are available for viewing at:

Resort Municipality of Whistler
Municipal Hall
4325 Blackcomb Way
Whistler, BC V0N 1B4
(ADDRESS WHERE CONTRACT DOCUMENTS CAN BE VIEWED)

Tenders are scheduled to close:

Tender Closing Time: 2:00pm local time

Tender Closing Date: February 14th, 2024

Address: Resort Municipality of Whistler
engineerbids@whistler.ca
(E-MAIL WHERE TENDERS MUST BE SUBMITTED ELECTRONICALLY)

Name of Owner's representative:

Graham Schulz, P.Eng.
Contract Administrator
gschulz@islengeering.com
604-815-4646
(PHONE)

1.0	Introduction.....	IT – 1
2.0	Tender Documents	IT – 2
3.0	Submission of Tenders	IT – 2
4.0	Supplemental Instructions to Tenderers.....	IT – 3-8

THIS PAGE INTENTIONALLY LEFT BLANK

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS
OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

**(TO BE READ WITH “INSTRUCTIONS TO TENDERERS - PART II”
CONTAINED IN THE EDITION OF THE PUBLICATION
“MASTER MUNICIPAL CONSTRUCTION DOCUMENTS” SPECIFIED IN ARTICLE 2.2 BELOW)**

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

1.0 Introduction

1.1 Project works described below:

Sewer:

- Replacement of 13 - fittings (bends, couplings, saddles) on sanitary sewer forcemain
- Investigation of 1 - bend on sanitary sewer forcemain
- Replacement of 2 - couplings on sanitary sewer gravity main
- Bypass required for replacements.

Water:

- Replacement/relocation of 4 - hydrant assemblies
- Replacement of 6 - gate valves ranging from 150mmØ to 200mmØ
- Replacement of 5 - bends
- Replacement of 2 - tees
- Replacement of 1 - blow off assembly

(BRIEF DESCRIPTION OF THE WORK)

1.2 Direct all technical inquiries regarding the *Contract*, to:
Graham Schulz, P.Eng.
Contract Administrator
(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: ISL Engineering and Land Services Ltd.

101 – 38026 Second Avenue

Squamish, BC V8B 0C3

Phone: 604-815-4646

Fax: 604-815-4647

Email: gschulz@islengineering.com

Direct all general inquiries regarding the *Contract*, to:

Chelsey Roberts, AScT

Capital Projects Manager, Infrastructure Services

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: Resort Municipality of Whistler

4325 Blackcomb Way

Whistler, BC V0N 1B4

engineerbids@whistler.ca

(E-MAIL WHERE INQUIRIES MUST BE SUBMITTED ELECTRONICALLY)

Phone: 604-905-9462

Email: croberts@whistler.ca

2.0 Tender Documents

- 2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled “Schedule of Contract Documents”. Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled “List of *Contract Drawings*”.
- 2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”. Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.
- 2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

3.0 Submission of Tenders

- 3.1 Tenders must be submitted electronically to the email address noted below. The email should indicate the Contract Title and Contract No. (See Tender Documents cover page) in the subject line and the proponents full legal name in the body of the email.
Tenderers should note that the maximum acceptable email size is 8MB. If greater than 8GB the Tenderer should email response in multiple emails with each email indicating the total number of emails being sent. All emails must be received prior to the Submission Deadline.

on or before

Tender Closing Time: 2:00pm local time
Tender Closing Date: February 14th, 2024

at

Address: Resort Municipality of Whistler
engineerbids@whistler.ca

(ADDRESS WHERE TENDERS MUST BE SUBMITTED)

Fax: n/a

- 3.2 Late tenders will not be accepted or considered.

3.3 Depending on the available funds to complete the work program, the scope of the work may be decreased due to budget constraints. The *Owner* reserves the right to reduce or remove projects based on available funds.

**4.0 Supplemental
Instructions
to Tenderers**

4.1 Completing the Form of Tender

The submitted Form of Tender must be legible, written in ink, or by typewriter and ALL ITEMS MUST BE BID, unless the Form of Tender specifically permits otherwise, with the price for every item and other extras clearly shown. Each page must be initialed by the Tenderer.

The Tenderer shall be deemed to have satisfied himself as to the sufficiency of his tender for the work and of the unit and lump sum prices stated in the Form of Tender. These unit prices shall cover all his costs including overhead, profit and tax, except for the Goods and Services Tax as explained in the following paragraphs of this section, for carrying out the works and his obligations under this Contract.

This document contains one extra separate set of the Form of Tender. The Contractor shall complete and submit the separate set of the Form of Tender, in accordance with the Instructions to Tenderers and keep the remaining documents for record purposes.

The "Amount" column shall be totaled in groups of items as shown and each total for a group of items shall be carried to the Summary Sheet for insertion in the appropriate place. The totals for all groups of items shall be added to give the Total Tender Price, Goods and Services Tax of 5% shall be calculated separately then added to arrive at the Total Tender Price including GST.

4.2 Right to Accept or Reject Tenders

The Owner reserves the right to reject any or all tenders or to accept any tender should it be deemed in the interest of Owner to do so. The lowest tender will not necessarily be accepted.

For each item listed in the Form of Tender, there shall be a reasonable unit price. Under no conditions will an unbalanced tender be considered. The Contract Administrator will be the sole judge of such matters. Any tender considered to be unbalanced shall be rejected by the Owner.

Without limiting the generality of the foregoing, any tender may be disqualified or rejected which is incomplete, obscure or irregular, which had erasures or corrections in the Form of Tender, in which prices are omitted or which has an insufficient or irregular Surety.

4.3 Award

The Owner will, following receipt of an acceptable tender, issue in writing a Notice of Award to the successful Tenderer. This notice will be given as soon as possible following the closing of tenders and, unless otherwise agreed to by the Tender, not later than sixty (60) days following the closing of tenders.

The following amendments reference Instructions to Tenderers - Part II:

12.1S	Amendment of Tenders	Change “hand, mail or fax” to “hand” and add “An amendment by email or fax will not be accepted.”
15.4S	Award	<p>Insert the following clause:</p> <p>“The lowest or any tender will not necessarily be accepted. Without limiting the generality of the foregoing, any tender which is incomplete, obscure or irregular may be rejected, any tender having erasures or corrections in the Form of Tender: Appendix 1, Schedule of Quantities & Prices may be rejected, any tender in which unit prices are omitted or in which unit prices are obviously unbalanced may be rejected, any tender accompanied by an insufficient bond may be rejected, any tender that has any deletions, alterations, or changes in the <i>Contract Documents</i> as listed in Schedule 1 and 2 of the Agreement may be rejected.”</p>
15.5S		<p>Insert the following clause:</p> <p>In exercising its discretion, the <i>Owner</i> will have regard to the information provided by the tenderer in the Appendices to the Form of Tender as described under IT 5.3, and may also have regard to any information obtained by the <i>Owner</i> in evaluation of such tender information, any information obtained by the <i>Owner</i> from any other person, firm or corporation relating to their previous experience with the tenderer, as well as the <i>Owner’s</i> previous relevant experience, if any, with the tenderer. In exercising this discretion the <i>Owner</i> may consider, but is not limited to, the following criteria in addition to the <i>Tender Price</i>.</p> <p>a) the proven experience of the tenderer, and any listed subcontractors to do the <i>Work</i>;</p>

- b) the tenderer's ability to complete the *Work* within the *Preliminary Construction Schedule* including timeliness in completing deficiency works;
- c) the tenderer's ability to work effectively with the *Owner*, its consultants and representatives, and the public;
- d) the tenderer's ability to manage and do the work effectively using the named superintendent and submitted contractors and subcontractors;
- e) the tenderer's history on other projects including with respect to quality of work, changes in the work, force account work, cooperation with the *Owner*, and the contract administration costs of the *Owner*;
- f) the nature of any legal proceedings undertaken by the tenderer, or any officer or director of the tenderer directly (or indirectly through another corporation) against the *Owner* within the last five years of the Invitation to Tender.

In no event shall the *Owner* be liable for the tenderer's costs of preparing a tender.

The award of this Contract is subject to the availability of sufficient funds to complete the work.

Basis of Contract Award & Acceptance

In reviewing tenders and awarding the *Contract* for this project the *Owner* may consider not only the tendered prices but the overall value that the tender represents to the *Owner* based on quality, service and price, and the tenderer's experience and qualifications considered essential by the *Owner* for the satisfactory completion of this type and size of project, including:

- a) Bonding capability.
- b) Financial capability.
- c) Previous completed projects of this type and/or size.
- d) Major projects now being undertaken by the tenderer.
- e) Key office and site personnel to be assigned by the tenderer to this project.
- f) Time for completion of the *Work*.
- g) The past experience of the *Owner* and/or other project owners with respect to the tenderer's performance in completing projects in a timely, efficient and satisfactory manner, the tenderer's methods of doing business and the tenderer's ability to establish and maintain a good working relationship with a project owner.

The *Owner* reserves the right to award the *Contract* based on the above pre-requisites and to reject without further consideration, any tender which in its opinion, does not meet the criteria it considers essential for this project.

The tenderer, by submitting a tender, agrees that it will not make a claim against the *Owner*, for whatever reason, relating to the tender, the tender documents, or the competitive tender process. The tenderer, by submitting a tender, waives any claim or recovery for loss of profits or any prospective damages whatsoever if no *Contract* is entered into with the tenderer.

4.4 Contract Time

The Tenderer may alter the contract time noted in the Form of Tender; however, he shall be responsible for inspection costs incurred for each working day beyond the noted time subject to the Provisions of the General Conditions. The applicable cost will be \$1,500.00 per working day.

4.5 Hours of Work

The hours of work for all project sections must not extend beyond 0700h and 2000h, inclusive, daily. The Contractor shall schedule his work within these hours and will not be permitted to commence work earlier than 0700h and/or work later than 2000h, except as authorized by the Contract Administrator.

No work on Saturdays, Sundays, or Statutory Holidays will be permitted except in case of emergency and then only with written permission of the Contract Administrator and to such extent as he deems necessary.

The Owner reserves the right not to allow any work to be undertaken on Weekends or Statutory Holidays.

4.6 Budget Constraints

Depending on the available funds to complete the capital works program, the scope of work may be decreased due to budget constraints. The Owner reserves the right to reduce or remove projects based on available funds.

4.7 Note that the MMCD (this Contract is based on the **2009 Platinum Edition**) must be purchased separately from:

MMCD
102, 211 Columbia Street
Vancouver, BC V6A 2R5

Phone: 604-681-0295
Fax: 604-681-4545
Email: admin@mmcd.net

4.8 Contractor is to familiarize himself/herself with IT Part II – Section 10.0

Add IT Part II – Section 10.3

“It shall be the responsibility of the Tenderer to include in his tender sufficient amounts to cover the cost of the work and materials not listed in the Schedule of Quantities and Unit Prices and specifications by either direct mention or implication. All such amounts shall be included in the items to which they pertain most closely in the Schedule of Quantities and Unit Prices.

FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT - TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

To Owner:

**WE, THE
UNDERSIGNED:**

1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and

1.3 have complied with the Instructions to Tenderers; and

**ACCORDINGLY WE
HEREBY OFFER:**

2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and

2.2 to achieve Substantial Performance of the *Work* on or before September 27, 2024; and
(WORK DURATION OR DATE)

2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

WE CONFIRM:

3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

3.2 that we understand and agree that the *Owner* is in no way obligated to accept this Tender.

WE CONFIRM:

4.1 that the following appendices are attached to and form a part of this tender:

Tenderer's Initials _____

4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers – Part II; and

4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers – Part II.

4.1.3 the *Consent of Security* - Performance, Labour and Materials Payment filled and signed.

WE AGREE:

5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of 60 calendar days from the day following the *Tender Closing Date and Time*, even if the tender of another tenderer is accepted by the *Owner*. If within this period the *Owner* delivers a written notice ("*Notice of Award*") by which the *Owner* accepts our tender we will:

5.1.1 within 10 *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:

1. a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor's obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
2. a Baseline Construction Schedule, as provided by GC 4.6.1;
3. a "clearance letter" indicating that the tenderer is in Worksafe BC compliance; and
4. a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;

5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and

5.1.3 sign the Contract Documents as required by GC 2.1.2.

WE AGREE:

6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*, then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:

Tenderer's Initials _____

6.1.3 the face value of the *Bid Security*; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

OUR ADDRESS IS AS FOLLOWS:

Phone: _____
Fax: _____
Email: _____
Attention: _____

This Tender is executed this _____ day of _____, 20 _____.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Tenderer's Initials _____

Form of Tender - Appendix 1
2024 Sewer and Water Valve and Fitting Repairs

SCHEDULE OF QUANTITIES AND PRICES - TENDER

(See paragraph 5.3.1 of the Instructions to Tender - Part II)
(All prices and *Quotations* including the *Contract Price* shall include all *Taxes*)

TENDER SUMMARY SHEET

ITEM NO.	DESCRIPTION	AMOUNT
1.0	SEWER VALVE & FITTINGS	
2.0	WATER VALVE & FITTINGS	
	TENDER PRICE	
	GST @ 5%	
	TENDER PRICE plus GST	

Tenderer's Initials _____

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.0		SEWER VALVE & FITTINGS				
		MMCD 01 55 00 - TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
1.01	1.5.2S	Traffic Control	L.S.	1		
		MMCD 31 23 01 - EXCAVATING, TRENCHING, AND BACKFILLING				
1.02	1.10.9S	Overexcavation with Offsite Disposal - Includes Backfilling (<i>Optional</i>)	Cu.M.	30		
		MMCD 32 12 16 - HOT-MIX ASPHALT CONCRETE PAVING				
1.03	1.5.9S	100mm Hot-Mix Asphalt (two lifts) c/w 150mm 19mm Minus Sub-base (Roads)	Sq.m	150		
1.04	1.5.9S	75mm Hot-Mix Asphalt (one lift) c/w 150mm 19mm Minus Sub-base (Sidewalks & VT)	Sq.m	50		
		MMCD 33 30 01 - SANITARY SEWERS				
1.05	1.6.2S	Replacement of 1 x 356mm O.D. HDPE Restrained Mechanical Coupling with 2 x Restrained Waga Multijoint 3000 Plus Couplings (S2-10b) as per RMOW Standards and Contract Drawings	L.S.	1		
1.06	1.6.2S	Replacement of 1 x 450mmØ Coupling with 2 x 450mmØ Couplings(S2-12b) as per RMOW Standards and Contract Drawings	L.S.	1		
1.07	1.6.8S	Gravity Sewer Bypass Pumping to Facilitate S2-10b and S2-12b Fitting Replacements	L.S.	1		
		MMCD 33 34 01 - SEWAGE FORCEMAINS				
1.08	1.8.2S	Replacement of 1 x Restrained Transition Coupling (500mmØ HDPE/400mmØ PVC) with 1 x Restrained Robar Restrained Transition Coupling - Robar DWG No. 1668-000(S2-10a) and 400mmØ Alpha Romac Restrained Coupling as per RMOW Standards and Contract Drawings	L.S.	1		
1.09	1.8.2S	Replacement of 400mmØ 16.0° Bend with 11.25° Bend and Removal of ARV Saddle(S2-11) as per RMOW Standards and Contract Drawings	L.S.	1		
1.10	1.8.2S	Replacement of 1 x 400mmØ Coupling with 2 x 400mmØ Alpha Romac Restrained Couplings(S2-12a) as per RMOW Standards and Contract Drawings	L.S.	1		
1.11	1.8.2S	Replacement of 400mmØ Long Radius 45.0° and 11.25° Bends (S2-13) as per RMOW Standards and Contract Drawings	L.S.	1		
1.12	1.8.2S	Replacement of 400mmØ Long Radius 22.5° Bend (S2-14) as per RMOW Standards and Contract Drawings	L.S.	1		
1.13	1.8.2S	Replacement of 400mmØ Long Radius 11.25° Bend (S2-15) as per RMOW Standards and Contract Drawings	L.S.	1		
1.14	1.8.2S	Replacement of 400mmØ Long Radius 22.5° Bend (S2-16) as per RMOW Standards and Contract Drawings	L.S.	1		
1.15	1.8.2S	Replacement of 400mmØ Long Radius 45.0° Bend (S2-17) as per RMOW Standards and Contract Drawings	L.S.	1		
1.16	1.8.2S	Replacement of 400mmØ Long Radius 11.25° Bend (S2-18) as per RMOW Standards and Contract Drawings	L.S.	1		
1.17	1.8.2S	Replacement of 400mmØ Bend and Removal of 400mmØ Plug Valve(S2-19) as per RMOW Standards and Contract Drawings	L.S.	1		
1.18	1.8.2S	Replacement of 400mmØ Bend (S2-20) as per RMOW Standards and Contract Drawings	L.S.	1		
1.19	1.8.2S	Exposing/Daylighting of 400mmØ Bend (S2-21) to assess condition as per RMOW Standards and Contract Drawings	L.S.	1		
1.20	1.8.2S	Replacement of 400mmØ Bend (S2-21) as per RMOW Standards and Contract Drawings (<i>Optional</i>)	L.S.	1		
1.21	1.8.10S	Bypass of Ex. 400mmØ FM to Facilitate S2-10a , S2-11 , S2-12a and S2-13 to S2-21 Fitting Replacements	L.S.	1		
Subtotal Carry Forward to Schedule of Quantities Summary Item 1.0						

ITEM NO.	MMCD REF.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
2.0		WATER VALVE & FITTINGS				
		MMCD 01 55 00 - TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING				
2.01	1.5.2S	Traffic Control	L.S.	1		
		MMCD 31 23 01 - EXCAVATING, TRENCHING, AND BACKFILLING				
2.02	1.10.9S	Overexcavation with Offsite Disposal - Includes Backfilling <i>(Optional)</i>	Cu.M.	30		
		MMCD 32 12 16 - HOT-MIX ASPHALT CONCRETE PAVING				
2.03	1.5.9S	100mm Hot-Mix Asphalt (two lifts) c/w 150mm 19mm Minus Sub-base (Roads)	Sq.m	200		
2.04	1.5.9S	75mm Hot-Mix Asphalt (one lift) c/w 150mm 19mm Minus Sub-base (Sidewalks)	Sq.m	30		
		MMCD 33 11 01 - WATERWORKS				
2.05	1.8.2S/1.8.3S	200mmØ 45° Bend, 200mmØ Restrained Coupling (W4-27) as per RMOW Standards and Contract Drawings	L.S.	1		
2.06	1.8.2S/1.8.3S	200mm x 200mm x 150mmØ Tee, 2 x 200mmØ Gate Valves, 150mmØ Gate Valve (W4-26) as per RMOW Standards and Contract Drawings	L.S.	1		
2.07	1.8.2S/1.8.3S/ 1.8.14S	200mm x 200mm x 150mmØ Tee, 150mmØ Gate Valve, Hydrant Assembly (W4-25) as per RMOW Standards and Contract Drawings	L.S.	1		
2.08	1.8.2S/1.8.3S	200mmØ 22.5° Bend (W4-24) as per RMOW Standards and Contract Drawings	L.S.	1		
2.09	1.8.2S/1.8.3S/ 1.8.14S	200mm x 200mm x 150mmØ Tee, 1 x 200mmØ Gate Valve, 150mmØ Gate Valve, Hydrant Assembly (W4-23) as per RMOW Standards and Contract Drawings	L.S.	1		
2.10	1.8.2S/1.8.3S	200mmØ 11.25° Bend (W4-22) as per RMOW Standards and Contract Drawings	L.S.	1		
2.11	1.8.2S/1.8.3S	200mm x 200mm x 150mmØ Tee, 2 x 200mmØ Gate Valves, 2 x 150mmØ Gate Valves (W4-21) as per RMOW Standards and Contract Drawings	L.S.	1		
2.12	1.8.2S/1.8.3S/ 1.8.14S	Abandonment of Hydrant Assembly & HP Watermain Segment Including Hydrant removal, 250mmØ Gate Valve Removal, Supply/Install of Blind Flange at Tee and Additional Restraints (W4-20) as per RMOW Standards and Contract Drawings	L.S.	1		
2.13	1.8.2S/1.8.3S/ 1.8.15S	Hydrant Assembly including Hot Tap (W4-19) as per RMOW Standards and Contract Drawings	L.S.	1		
2.14	1.8.2S/1.8.3S	150mmØ Blow Off Assembly (W4-14) as per RMOW Standards and Contract Drawings <i>(Optional)</i>	L.S.	1		
2.15	1.8.2S/1.8.3S	250mmØ 11.25° & 22.5° Bend (W4-13 & W4-12) as per RMOW Standards and Contract Drawings <i>(Optional)</i>	L.S.	1		
2.16	1.8.2S/1.8.3S/ 1.8.14S	250mm x 250mm x 150mmØ Tee, 150mmØ Gate Valve, Hydrant Assembly (W4-11) as per RMOW Standards and Contract Drawings <i>(Optional)</i>	L.S.	1		
		TIE-INS				
2.17	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-27)	L.S.	1		
2.18	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-26)	L.S.	1		
2.19	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-25)	L.S.	1		
2.20	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-24)	L.S.	1		
2.21	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-23)	L.S.	1		
2.22	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-22)	L.S.	1		
2.23	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-21)	L.S.	1		
2.24	1.8.13S	Tie-in to 250mmØ PVC Watermain (W4-20)	L.S.	1		
2.25	1.8.13S	Tie-in to 200mmØ PVC Watermain (W4-19)	L.S.	1		
2.26	1.8.13S	Tie-in to 150mmØ PVC Watermain (W4-14) <i>(Optional)</i>	L.S.	1		
2.27	1.8.13S	Tie-in to 250mmØ PVC Watermain (W4-13 & W4-12) <i>(Optional)</i>	L.S.	1		
2.28	1.8.13S	Tie-in to 250mmØ PVC Watermain (W4-11) <i>(Optional)</i>	L.S.	1		
Subtotal Carry Forward to Schedule of Quantities Summary Item 2.0						

**APPENDIX 2
PRELIMINARY CONSTRUCTION SCHEDULE**

See paragraph 5.3.2 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

Indicate Schedule with bar chart with major item descriptions and time.

MILESTONE DATE: Substantial Performance on or before September 27, 2024

ACTIVITY	CONSTRUCTION SCHEDULE									
	1	2	3	4	5	6	7	8	9	
	10	11	12	13	14	15	16	17	18	

**APPENDIX 3
EXPERIENCE OF SUPERINTENDENT**

See paragraph 5.3.3 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

Name: _____

Experience: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____

**APPENDIX 4
COMPARABLE WORK EXPERIENCE**

See paragraph 5.3.4 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

PROJECT	OWNER / CONTACT NAME PHONE and FAX	WORK DESCRIPTION	VALUE (\$)
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		
	Owner / Contract _____ Email _____ Phone () _____ Fax () _____		

Tenderer's Initials _____

**APPENDIX 5
SUBCONTRACTORS**

See paragraph 5.3.5 of the Instructions to Tenderers – Part II.

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

TENDER ITEM	TRADE	SUBCONTRACTOR NAME	PHONE NUMBER

(FOR USE WHEN UNIT PRICES FORM THE BASIS OF PAYMENT TO BE USED ONLY WITH THE GENERAL CONDITIONS AND OTHER STANDARD DOCUMENTS OF THE UNIT PRICE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS.)

BETWEEN OWNER AND CONTRACTOR

This agreement made in duplicate this _____ day of _____, 20____

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

BETWEEN:

The Resort Municipality of Whistler
(NAME OF OWNER)
(the "Owner")

AND: _____

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "Contractor")

The Owner and the Contractor agree as follows:

- | | | | |
|------------------|--|-----|--|
| Article 1 | The Work Start / Completion Dates | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . |
| | | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notice to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> on or before <u>September 27, 2024</u> subject to
(INSERT DATE OF SUBSTANTIAL PERFORMANCE)
the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> |
| | | 1.3 | Time shall be of the essence of the <i>Contract</i> . |
| Article 2 | Contract Documents | 2.1 | The " <i>Contract Documents</i> " consist of the documents listed or referred to in Schedule 1, entitled "Schedule of Contract Documents", which is attached and forms a part of this Agreement, and includes any and all additional and amending documents issued in accordance with the provisions of the <i>Contract Documents</i> . All of the <i>Contract Documents</i> shall constitute the entire <i>Contract</i> between the <i>Owner</i> and the <i>Contractor</i> . |

- 2.2 The *Contract* supersedes all prior negotiations, representations or agreements, whether written or oral, and the *Contract* may be amended only in strict accordance with the provisions of the *Contract Documents*.
- Article 3 Contract Price**
- 3.1 The price for the *Work* ("*Contract Price*") shall be the sum in Canadian dollars of the following:
- 1.1.1 the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus
 - 1.1.2 all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
 - 1.1.3 any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.
- 3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.
- Article 4 Payment**
- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.
- Article 5 Rights and Remedies**
- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.
- 5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

Article 6 Notices

6.1 Communications among the *Owner*, the *Contract Administrator* and the *Contractor*, including all written notices required by the *Contract Documents*, may be delivered by hand, or by email, or by fax, or by pre-paid registered mail to the addresses as set out below:

The *Owner*:

Resort Municipality of Whistler

Municipal Hall

4325 Blackcomb Way

Whistler BC, V0N 1B4

Fax: n/a

Email: croberts@whistler.ca

Attention: Chelsey Roberts

The *Contractor*:

Fax:

Email:

Attention:

The *Contract Administrator*:

ISL Engineering and Land Services Ltd.

101, 38026 Second Avenue

Squamish BC, V8B 0C3

Fax: 604-815-4647

Email: gschulz@islengineering.com

Attention: Graham Schulz, P.Eng., Contract Administrator

6.2 A communication or notice that is addressed as above shall be considered to have been received

1.1.4 immediately upon delivery, if delivered by hand; or

1.1.5 at the date and time as shown in the recipients inbox, if sent by email; or

1.1.6 immediately upon transmission if sent by fax and received in hard copy; or

1.1.7 after 5 *Days* from date of posting if sent by registered mail.

6.3 The *Owner* or the *Contractor* may, at any time, change its address for notice by giving written notice to the other at the address then applicable. Similarly if the *Contract Administrator* changes its address for notice then the *Owner* will give or cause to be given written notice to the *Contractor*.

Article 7 General

- 6.4 The sender of a notice by fax or email assumes all risk that the fax or email is received.

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.

- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.

- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.

- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.

- 7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first written above.

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Owner:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

(INCLUDE IN LIST ALL DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

Schedule 1 **Schedule of Contract Documents**

The following is an exact and complete list of the *Contract Documents*, as referred to in Article 2.1 of the Agreement.

NOTE: The documents noted with “*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, edition dated Platinum Edition, 2009. All sections of this publication are included in the *Contract Documents*.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions (for MMCD Volume II, Platinum Edition, 2009);
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications (for MMCD Volume II, Platinum Edition, 2009);
- 8.5 Specifications*;
- 8.6 Supplementary Standard Detail Drawings (if any, insert title and edition date);
- 8.7 Standard Detail Drawings*;
- 8.8 Executed Form of Tender, including all Appendices;
- 8.9 *Contract Drawings* listed in Schedule 2 to the Agreement, –”List of *Contract Drawings*”;
- 8.10 Instructions to Tenderers - Part I;
- 8.11 Instructions to Tenderers - Part II*;
- 8.12 The following Addenda:

(ADDENDA, IF ANY)

- 8.13 MMCD Supplementary Updates:
 - 2022-04-07 2012-08-07
 - 2021-04-23 2012-06-08
 - 2020-08-04 2012-05-30
 - 2016-11-18 2011-08-08
 - 2015-11-02 2011-08-04
 - 2014-09-19 PVC C900 Pipe Specification Clarification
 - 2014-07-15 2010-05-18
 - 2014-02-28 2010-03-25
 - 2013-06-13 2009-11-19As provided on website of tender closing date: www.mmcd.net

(COMPLETE LISTING OF ALL DRAWINGS, PLANS AND SKETCHES WHICH ARE TO FORM A PART OF THE CONTRACT,
OTHER THAN STANDARD DETAIL DRAWINGS AND SUPPLEMENTARY STANDARD DETAIL DRAWINGS.)

**Schedule 2 List of Contract
Drawings**

TITLE	DRAWING NO.	DATE	REVISION NO.	REVISION DATE
GENERAL PROJECT LIMITS	N/A	N/A	N/A	N/A
2024 SEWER VALVE & FITTINGS REPAIR	32564-2024-SAN-001	Jan 22, 2024	1	Jan 22, 2024
2024 SEWER VALVE & FITTINGS REPAIR	32564-2024-SAN-002	Jan 22, 2024	1	Jan 22, 2024
2024 SEWER VALVE & FITTINGS REPAIR	32564-2024-SAN-003	Jan 22, 2024	1	Jan 22, 2024
2024 SEWER VALVE & FITTINGS REPAIR	32564-2024-WAT-001	Jan 22, 2024	1	Jan 22, 2024
2024 SEWER VALVE & FITTINGS REPAIR	32564-2024-WAT-002	Jan 22, 2024	1	Jan 22, 2024

Supplementary Specifications

SUPPLEMENTARY SPECIFICATIONS INDEX

DIVISION 01 – GENERAL REQUIREMENT

- 01 33 01S Project Record Documents
- 01 54 00S General Requirements
- 01 55 00S Traffic Control, Vehicle Access and Parking
- 01 57 01S Environmental Protection

DIVISION 31 – EARTHWORKS

- 31 05 17S Aggregate and Granular Materials
- 31 15 60S Dust Control
- 31 23 01S Excavating, Trenching, and Backfilling

DIVISION 32 – PAVING

- 32 12 16S Hot Mix Asphalt Concrete Paving

DIVISION 33 – UTILITIES

- 33 11 01S Waterworks
- 33 30 01S Sanitary Sewer
- 33 34 01S Sewage Forcemains

1.7 **Recording Actual
Site Conditions**

.2S

.1 After “appurtenances” insert:

“including exact location of wyes along sanitary sewers and elevations of service connections at property lines”

.5S

(add clause 1.7.5 as follows)

The Contractor will keep one set of drawings on-site that will be marked up in red ink identifying all work completed and any changes made during the construction. This copy will be turned over to the Contract Administrator within 5 days of completion of all works.

The Contractor shall be responsible for the detailed setting out of the work and recording all data required to compile record drawings.

Payment for recording data for record drawings shall be considered incidental to the work performed and no additional payment will be made to the contractor.

END OF SECTION

1.0	Master Municipal Construction Documents	.1S	The Supplementary Specifications contained herein must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents, Volume II (Platinum Edition 2009) as identified in the Instructions to Tender article 2.2.
2.0	Format and Numbering System	.1S	The Supplementary Contract Specifications follow the same format and numbering system as the Master Municipal Specifications, but is differentiated from it by having the letter "S" placed after the section number.
3.0	Construction Survey Layout	.1S	The Contractor shall be responsible for the detailed setting out of the work.
		.2S	Payment for survey layout shall be considered incidental to the work performed and no additional payment will be made to the contractor.
		.3S	All monuments, including but not limited to brass caps, iron pins, lead plugs, rock posts and wooden witness posts, disturbed by the Contractor shall be re-established by Registered British Columbia Land Surveyors, at the Contractor's cost, and the appropriate authorities advised of the revised elevation and coordinates. Contractors are advised that the Contract Administrator will monitor construction to ensure that disturbed monuments are replaced at the Contractor's expense prior to completion of the Contract.
4.0	Description of Work	.1S	<p>Project works described below:</p> <p><i>Sewer:</i></p> <ul style="list-style-type: none"> • Replacement of 13 - fittings (bends, couplings, saddles) on sanitary sewer forcemain • Investigation of 1 - bend on sanitary sewer forcemain • Replacement of 2 - couplings on sanitary sewer gravity main • Bypass required for replacements. <p><i>Water:</i></p> <ul style="list-style-type: none"> • Replacement/relocation of 4 - hydrant assemblies • Replacement of 6 - gate valves ranging from 150mmØ to 200mmØ • Replacement of 5 – bends • Replacement of 2 - tees • Replacement of 1 – blow off assembly
5.0	Safety Procedures	.1S	<p>Entry Procedure for Confined Space:</p> <p>This procedure shall be used as a guideline only. The Contractor shall be responsible for familiarization with this and all WCB requirements.</p>

There must a minimum of two men:
- One man always on the surface, and
- One man in well.
Man lift/retrieval devices must be used.

1. Open manhole lids, turn on blower/fan to ventilate wet well for approximately two to three minutes.

- a) Leave fan running until job is completed.
- b) Manhole must be circulated by a blower fan to allow fresh air into the confined space. Check levels on gas detector by lowering into well. If levels are not safe, portable fans must be used.

2. Turn gas detector "ON":

- Oxygen levels should read between 20.0 and 21.0
- H2S level should read 000
- LEL levels should read 000

Note: - readings shall be taken before entering well
- record gas levels on "Confined Entry Space" forms and hand in daily.

3.

- a) lower gas detector by rope/cord into lower portion of wet well where work shall be performed.
- b) pull detector to surface and check gas levels. If levels are safe, entry into well is permitted.

4. Gas detector MUST be left "ON" and brought down into well with person(s) entering.

5. Check levels on gas detector when in well. Proceed with watching/repairing of station.

6. If at any time the gas detector goes "OFF" (ringing). EXIT WET WELL IMMEDIATELY and check levels.

6.0	Safety - Work Near Overhead and Underground Power Lines or Other Utilities	.1S	<p>All works shall be in strict compliance with WorkSafe BC Industrial and Safety Regulations Section 24 when working near or under any overhead power lines.</p> <p>The Contractor must be fully aware of the danger to workers and shall take all necessary safety precautions when working near to existing utilities, such as high pressure gas, water line and BC Hydro lines.</p>
7.0	Dust and Mud Control	.1S	<p>The Contractor shall make every reasonable effort to minimize the creation of dust or mud by his operations. Special measures may include, but shall not be limited to, frequent sweeping of existing roads used as haul routes; control of traffic speeds; frequent watering of dirt access and egress routes; watering of the construction</p>

areas; re-routing of traffic; and modification of construction procedures; and cleaning of off-site haul routes on a regular basis as required by the Municipality. Refer to MMCD Section 31 15 60, Dust Control, for General, Products and Execution.

Payment for the above items will be considered to be incidental to the work performed and no additional payment will be made to the Contractor.

- 8.0 Materials Testing** .1S Materials and density Quality Assurance (QA) testing will be carried out as directed by the Contract Administrator. Initial QA testing carried out at the Contract Administrator's direction will be paid for by the Municipality. Where initial tests fail and subsequent QA testing is deemed necessary by the Contract Administrator, the cost of the subsequent testing shall be the responsibility of the Contractor.

If the Contractor requests QA testing and upon arrival of the Municipality appointed testing agency, the contractor is not ready to conduct testing, any cost associated with the delay of testing i.e. standby or return trips will revert back to the contractor.

The Contractor will perform Quality Control inspections at the Contractors discretion to ensure that the requirements of the Contract are being met.

- 9.0 Grassed Areas Disturbed to be Hydro-seeded** .1S All areas disturbed by the construction shall be reinstated with 150mm compacted depth topsoil and hydro-seeded.

No additional payment will be made to the Contractor for this work.

- 10.0 Curb, Sidewalk and Driveway Restoration** .1S Existing curbs, sidewalks and driveways shall be reconstructed and reinstated to ensure proper drainage and appearance, to match existing finish, and in accordance with the Standard Drawings. All concrete curbs, pavers, sidewalks and driveways shall be 32 MPa strength concrete. Concrete curb and gutter to be reinstated between control joints. Concrete sidewalk and driveways to be reinstated to nearest panel joint for one complete panel.

No additional payment will be made to the Contractor for this work.

11.0 Interfering Services

.1

.1S The Contractor shall, at his own expense, provide for the uninterrupted flow of all watercourses, sewers, drains, and any other utility encountered during the work.

.2S When other utility structures are encountered, the Contractor shall support them to the satisfaction of the Contract Administrator so as to protect them from damage. The Contractor shall, at his own expense, at once repair and make good any damage which may occur to any watermains, service or utility pipes, or facilities, or to any electrical conductor or telephone facility or to any sidewalk, crosswalk as a result of this operation. The Contractor is also wholly responsible for all existing above ground structures (including any supporting sub-grade structures such as concrete bases or pads) within the area of construction including supporting those structures as necessary to permit the completion of the Works.

.3S It is the Contractor's responsibility wherever necessary to determine location of existing pipes, valves, or other underground structures. Wherever it is necessary to explore and excavate to determine the location of the existing underground structures, the Contractor at his own expense shall make explorations and excavations for such purposes.

.4S Where gas mains and/or service lines exist in the vicinity of the proposed work, the Contractor shall consult the officers of the gas company prior to commencing operations and arrange for a mutually agreeable procedure for their protection.

.5S When existing poles conflict with the proposed works, the Contractor shall consult MOTI, B.C. Hydro and Telus prior to commencing operations and advise the Contract Administrator with the works to be undertaken.

Costs associated with pole holding / support are incidental to the work.

.6S The Contractor shall respond and determine the cause of all service interruption and/or quality issues within the area of work. No additional payment will be made to the Contractor for this work.

			<p>.7S The Contractor shall pre-locate and expose all utilities prior to construction to confirm location, top and bottom elevations of the utility through whatever means are necessary. Pre-location efforts include temporary asphalt if located are within travelled surfaces.</p>
12.0	Coordination with Other Contractors	.1S	<p>The Contractor will be responsible for all coordination with all utility providers including but not limited to MOTI, BC Hydro, TELUS, Fortis, and BC Transit. The Contractor shall inform any utility/service provider of any planned disruption/adjustment to usual service in writing and receive written agreement of such disruption or adjustment prior to these disruptions or adjustments.</p> <p>The Contractor is to coordinate with any other ongoing construction activities that may be proceeding at the same time and in the same general vicinity of this project. No additional payment will be made for any expenses or delays incurred as a result of these concurrent construction activities.</p>
13.0	Environmental Protection	.1S	<p>The Contractor is advised that he is responsible for all necessary measures required to prevent the transportation of any silt or other deleterious material from the site into any fish bearing watercourses or their tributaries. All requirements of the Ministry of Environment, Lands and Parks, Fish and Wildlife Branch and Fisheries & Oceans Canada, with respect to air, earth and water pollution, must be strictly adhered to.</p> <p>Refer to Section 01 57 01S Environmental Protection for further information. If there are any discrepancies between this section and Section 01 57 01S, then the following governing hierarchy will be used:</p> <p>(1) Section 01 57 01S; (2) Section 01 54 00S Item 13.0.</p>
14.0	Metric Units of Measurement	.1S	<p>All the units of measurement for payment in this Contract are metric units as modified by the internationally agreed S.I. Units (System International).</p> <p>However, as the construction industry is not entirely converted to S.I. Units, some conversions will need to be made for purpose of month end and Final Progress Estimates.</p> <p>The following conversion factors will be used in this Contract:</p>

1 ton	=	0.907 tonnes
1 cubic yard	=	0.765 cubic metres
1 foot	=	0.3048 metres

- | | | | |
|-------------|--------------------------------------|-----|--|
| 15.0 | Disposal Site | .1S | <p>The Contractor is responsible for the provision of all off-site disposal sites for materials that are to be removed from the construction sites in this Contract. The Contractor is responsible for all fees, permits and costs associated with the off-site disposal of materials.</p> <p>The Resort Municipality of Whistler will not accept any material at municipal lands or facilities for this project.</p> |
| 16.0 | Permits from Outside Agencies | .1S | <p>The Contractor is responsible to obtain and pay for <u>all permits</u> required from outside agencies including but not limited to MOTI, Ministry of Forests, BC Hydro, and DFO.</p> |
| 17.0 | Temporary Drainage Facilities | .1S | <p>All required temporary drainage facilities, measures for control of ground water during construction and restoration of temporary drainage ditches after construction shall be considered as incidental to work being performed under this Contract and no separate payment will be made for this work.</p> |
| 18.0 | Notice to Residents | .1S | <p>Prepare and deliver a letter to all properties which may be affected by construction not less than one week (5 days) and not more than two weeks (10 days) prior to construction.</p> <p>Notify residents directly affected by the work 72 hours in advance of commencement of construction.</p> <p>Cost of notifying residents of ensuing construction and delivery of letters is incidental to the Contract.</p> |
| 19.0 | Weight Restriction | .1S | <p>None unless otherwise required by agency permits.</p> |
| 20.0 | Foreign Utility Adjustments | .1S | <p>The Contractor will be responsible for adjusting all foreign utilities, unless noted otherwise on the drawings. All adjustments to foreign utilities must be completed to the satisfaction of the Utility Owner. The Contractor should note that certain Utility Owners may decide, after tender closing, to complete their own adjustments if personnel are available. If the Utility Owner decides to complete their own adjustments, the Contractor will not be compensated for these utility adjustments.</p> |
| 21.0 | Material Supply | .1S | <p>The Municipality will not supply materials.</p> |

22.0	Site offices	.1S	<p><i>(amend clause 1.12.1 as follows)</i></p> <p>A Contract Administrator's temporary office will not be required for this project.</p>
23.0	Construction Signage	.1S	<p><i>(amend clause 1.13.1 as follows)</i></p> <p>Construction project signs will be required for this project at a minimum at either end of each site.</p> <p>No additional payment will be made to the contractor to supply, erect and remove these signs.</p>
24.0	Optional Work	.1S	<p>All items included in the Schedule of Quantities and Prices which shall be stated to be Optional Work shall be used only as directed and at the sole discretion of the Contract Administrator. All or any unused portion of these sums shall revert to the Municipality and shall be deducted from the Contract Price before final payment is made.</p>
25.0	Construction Sequencing	.1S	<p>The Contractor is required to submit a written detailed construction sequencing and tie-in plan and submit it to the Contract Administrator for review a minimum of two weeks prior to any anticipated construction works affecting stakeholders for approval. At a minimum the construction sequencing and tie-in procedure plan is to include the following:</p> <p><i>Overall Construction Sequencing</i></p> <ul style="list-style-type: none"> • Diagram of overall construction sequencing to the match the detailed Construction Schedule • Expected dates of each portion of the works • Expected dates and areas of impact for significant construction tasks such as hot taps and line stop installation, bypass construction and implementation, removal and reinstatement of manhole and piping etc. • Breakdown of all tasks in order to perform the work • List of materials to perform the installation • Timeline showing each task and expected start/completion time • Number of crew and equipment working on the tie in and which crew member and piece of equipment is assigned to each task. • "point of no return" tie-in abandonment time at which point the tie-in works will be abandoned and the contingency plan will begin • Sketch including staging areas and traffic management through the various phases of the Works including pedestrian/cyclist routing.

No tie-in is to take place until the Contract Administrator and Resort Municipality of Whistler representative approve the tie in plans. Hand sketches may only be accepted if they are clearly legible, to scale and reproducible.

Form of Tender Items 1.05, 1.08 and 1.09 must be completed in September 2024 due to DMA permit requirement.

- | | | | |
|-------------|--|-----|---|
| 26.0 | Hours of Work | .1S | <p>The hours of work for all project sections must not extend beyond 0700h and 2000h, inclusive, daily. The Contractor shall schedule his work within these hours and will not be permitted to commence work earlier than 0700h and/or work later than 2000h, except as authorized by the Contract Administrator.</p> <p>No work on Saturdays, Sundays, or Statutory Holidays will be permitted except in case of emergency and then only with written permission of the Contract Administrator and to such extent as he deems necessary.</p> <p>The Owner reserves the right not to allow any work to be undertaken on Weekends or Statutory Holidays.</p> |
| 27.0 | Business License | .1S | <p>The Contractor shall have or otherwise obtain a current business license in the Resort Municipality of Whistler prior to commencement of the Works.</p> |
| 28.0 | Location of Valves & Fittings | .1S | <p>The Contractor shall locate all buried valves and fittings to be replaced in the Schedule of Quantities and Prices up to 1.5 meters in either direction of the location specified in the Contract Drawings. If the valve and/or fitting is not found within these limits the Contractor shall stop and notify the Contract Administrator.</p> |

END OF SECTION

1.0	General	.3S	<p><i>(delete 1.0.3 and replace with)</i></p> <p>“Unless alternative arrangements satisfactory to those adversely affected have been made by the Contractor, pedestrian and vehicular access to affected properties shall be maintained at all times.</p>
1.2	Temporary Access Roads	.1S	<p><i>(delete 1.2.1 and replace with)</i></p> <p>"Do not close any lanes of road or highway without approval of the Owner. Before re-routing traffic erect suitable signs and devices as approved by the Contract Administrator. Provide sufficient cold mix to ensure a smooth riding surface during work."</p>
1.5	Payment	.2S	<p><i>(add new clause 1.5.2)</i></p> <p>The Contractor is responsible for all temporary traffic control on the streets within this contract. The Contractor will meet all the standards and conditions of the Resort Municipality of Whistler, and the Ministry of Transportation and Highways Traffic Control Manual for Work on Roadways.</p> <p>At a minimum for all roadways single lane alternating traffic shall be maintained at all times unless otherwise directed by the Contract Administrator.</p> <p>The Municipality will not control or direct the traffic control or direct the traffic control activities of the Contractor, but may require an immediate stop to any work where, in the Contract Administrator’s opinion, the provided traffic control does not meet the requirements of the Agreement.</p> <p>The Contractor will prepare and submit a written Traffic Management Plan to the Resort Municipality of Whistler a minimum of ten (10) working days prior to commencement of any work affecting traffic. The Contractor will update and resubmit that plan for review as necessary for acceptance by the Municipality.</p> <p>Measurement of payment will be on a lump sum basis as shown in the schedule of quantities and prices.</p>

END OF SECTION

- 1.2 Temporary Erosion and Sediment Controls .1S ***(delete 1.2.1.1 and replace with)***
- Drainage, Erosion and Sediment Control*
- “Properly drain all portions of the site. Protect the site and the watercourses to which it drains, directly or indirectly, against erosion and siltation in accordance with the Sediment Control Plan approved by the Owner during construction and until the maintenance period is completed. Ensure no silt, gravel, debris or other deleterious substance resulting from construction activity discharges into existing drainage systems or watercourses or onto highways or adjacent property. The Contractor is responsible for all damage that may be caused by water backing up or flowing over, through, from or along any part of the work or otherwise resulting from his operations.
- “Keep existing culverts, drains, ditches and watercourses affected by the work clear of excavated material at all times. When it is necessary to remove or alter an existing drainage structure, provide suitable alternative measures for handling the drainage. Adequately support culverts and drainpipes across trenches to prevent displacement and interference with the proper flow of water due to trench settlement.
- “Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the Contract Administrator deems necessary.
- “Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.
- “The Contract Administrator is responsible for monitoring ongoing compliance with this section.”
- 1.4 Environmental Protection .3 ***(add clause 1.4.3.5S as follows)***
- Immediately contain and clean up any leaks and spills of prohibited materials on the job site.
- (add clause 1.4.3.6S as follows)***
- Ensure that a well-stocked spill kit is on-site at all times and that the Contractor’s employees are familiar with appropriate spill response techniques.

(add clause 1.4.3.7S as follows)

Immediately notify the Contract Administrator and the Director of any leaks or spills of prohibited materials that occur on the job site.

(add clause 1.4.3.8S as follows)

Ensure that any fuel stored on-site is located at least 15 metres from the nearest stream, and is placed within a bermed and lined area, in order to prevent leaks or spills into the environment

(add clause 1.4.3.9S as follows)

Ensure that no equipment fueling or servicing is conducted within 15 metres of a stream.”

**1.9S Archaeological /
Historical Resources**

(add)

Immediately cease work and inform the Contract Administrator and the Director, if any archaeological or historical resources are encountered during construction. Leave these resources in-place and do not disturb them in any way.”

END OF SECTION

2.7 Granular Pipe Bedding
and Surround Material

.1S *(delete 2.7.1 and replace with)*

"Crushed or graded gravels to conform to the following gradations"

and replace with:

"Crushed or graded gravel to conform to Type 1 gradation as specified on chart in clause 2.7.1."

END OF SECTION

2.1 Materials

.7S *(add)*

"Resin and Water: to Contract Administrator's approval."

.8S *(add)*

"All Dust Control materials to be environmentally friendly."

END OF SECTION

- 1.10 **Measurement of Payment** .9S ***(add new clause 1.10.9)***
- Payment for over-excavation including backfilling with 19mm base gravel and compaction to 95% modified proctor density will only be made for over excavation authorized by the Contract Administrator. Payment will be based on volume (Lx D x Max Width)
- 3.6 **Surface Restoration** .6 ***(replace clause 3.6.6.2)***
- .2S At a minimum, patch all other roads on the Friday of each week to provide asphalt surface for weekend traffic. At all other times, the Contractor is to maintain a smooth granular running surface free of rutting, potholes or other irregularities. All asphalt patches shall be to finished surface.
- .11S ***(add new clause 3.6.11)***
- Grassed Areas Disturbed to be Hydro-Seeded*
All areas disturbed by the construction shall be reinstated with 150mm compacted depth topsoil and hydro-seeded. No additional payment will be made to the contractor for this work.
- .12S ***(add new clause 3.6.12)***
- Existing curbs, sidewalks and driveways including pavers shall be reconstructed and reinstated to ensure proper drainage and appearance, to match existing finish, and in accordance with the Standard drawings. All concrete curbs, sidewalks and driveways shall be 32 MPa strength concrete. Concrete sidewalk to be reinstated to nearest panel joint for one complete panel. No additional payment will be made to the Contractor for this work.

END OF SECTION

1.5 **Measurement and
Payment**

.9S *(add new clause 1.5.9)*

Reinstatement of the existing roads, trails and asphalt sidewalks shall include the supply and placement of all granular materials as noted in 32 11 16.1 and 32 11 23 and asphalt materials in 32 12 16 to RMO standards details and as shown in the Contract Drawings. The Works under this item also include reinstatement of the existing paint lines per 32 17 23 and reinstatement of existing signage and garbage receptacles. Payment for this item is per square meter after all reinstatement works are complete.

END OF SECTION

1.8 Measurement and
Payment

.2S *(replace clause 1.8.2 with the following)*

Payment for watermain and service connection to include saw cutting pavement, concrete, trench excavation, disposal of surplus excavated material, bedding, supply and installation of all pipe, bolts, gaskets and tie rods, restraints, rigid insulation if specified, imported or native backfill as shown on the Drawings, cleaning, pressure and leakage testing, flushing, disinfection, all surface restoration as specified under Section 31 23 01 – Excavating Trenching and Backfilling – 3.6, and all other work and materials necessary to complete the installation as shown on the Contract Drawings and specified under this section.

Removal of vegetation, trees, stumps, and roots, if required as part the of the works shall be considered incidental to the Contract.

Payment will be made on a lump sum basis as specified in the Schedule of Quantities.

.3S *(replace clause 1.8.3 with the following)*

Payment for inline gate valves or butterfly valves including valve boxes; and for fittings (crosses, tees, bends, reducers, couplings, blind flanges, caps etc.) will be made for items identified on Contract Drawings and installed as part of watermain as described under section 1.8.2S of this section. All valves to include 1.0m asphalt or concrete (50mm) surround. Thrust restraints and thrust blocks required for valves and fittings are included in the price of the valve or fitting. No separate payment will be made for reverse acting thrust blocks and tie-rods, the cost of which is included in the valve and fitting items.

All buried bolted connections or other iron works forming part of the water distribution system shall be protected from corrosion by wrapping the components with Denso (paste, mastic and tape) in accordance with manufacturer's specifications.

Removal of vegetation, trees, stumps, and roots, if required as part the of the works shall be considered incidental to the Contract.

Payment will be made on a lump sum basis as specified in the Schedule of Quantities.

.13S **(add to 33 11 01-1.8.13)**

Tie to include all works associated with completing and commissioning a connection to the existing Municipal water system.

Payment for Abandoning existing watermains including valves, and caps as shown on the contract drawings is to be considered incidental to the contract price. No additional payment will be made to the Contractor for this work.

Payment will be made on a lump sum basis as specified in the Schedule of Quantities.

.15S **(add new clause 1.8.15)**

Payment for hydrants includes the hydrant body, lateral connections from main to hydrant, hot tap on main including tapping saddle c/w isolation valve, curb valve with adjustable valve box and all other incidental work as shown on RMOW Standard Detail Drawing W4.

**2.5 Service Connections,
Pipe, Joints and
Fittings**

.1S **(replace clause 2.5.1 with the following)**

Pipe diameter of 19 mm to 50 mm to be Gold Stripe Polyethylene service tubing Series 160, CSA 137.3.

3.6 Pipe Installation

.15S **(add new clause 3.6.15)**

Where watermain is shown for installation shallower than 1.8m, the Contractor shall supply and install insulation as per Resort Municipality of Whistler specifications.

Minimum Insulation thickness to be 100mm.

Measurement and payment for this item will be incidental to payment for work described in in other sections.

**3.23 Connections to
Existing Mains**

.2S **(add new clause 3.23.2)**

The Contractor is required to submit a written detailed construction sequencing and tie in plan and submit it to the Contract Administrator for review a minimum of two weeks prior to any anticipated construction works affecting any users of the municipal water system for approval. At a minimum the construction sequencing and tie in procedure plan is to include the following for each roadway and/or segment of pipe that will affect existing users of the municipal water system. It is expected that the plan will provide details of each stage of construction. For each stage of construction, the plan shall address each of the following items:

Overall Construction Sequencing

- Diagram of overall construction sequencing to the match the detailed Construction Schedule

Tie In Procedure

- Expected tie in dates
- Explanation and diagrammatic illustration of specific watermains to be shut down and specifically identify valves to be exercised.
- Expected duration of shut down
- Breakdown of all tasks in order to perform the work
- List of materials to perform the installation
- Timeline showing each task and expected start/completion time
- Number of crew and equipment working on the tie in and which crew member and piece of equipment is assigned to each task.
- “point of no return” tie-in abandonment time at which point the tie in works will be abandoned and the contingency plan will begin
- Specific contingency plan to provide water to shut down areas should the initial tie in not be completed by the point of no return time.
- Sketch including staging areas and traffic management through the various phases of the tie in.

No tie in is to take place until the Contract Administrator and Resort Municipality of Whistler representative approve the tie in plans. Hand sketches may only be accepted if they are clearly legible, to scale and reproducible.

For clarity, the above description applies to the entirety of the Water Fixtures and Fittings – 2024.

.3S **(add new clause 3.23.3)**

Contractor shall be responsible for the costs for the Owner to flush and purge all air from the existing mains and service in the area affected by the service interruption.

END OF SECTION

1.6 Measurement and Payment .2S

(replace clause 1.6.2 with the following)

Payment for gravity sewer includes saw cutting pavement & concrete, trench excavation, dewatering, disposal of surplus excavated materials, cutting existing pipe, draining pipe, disposal of sewage and supply/installation of all pipe, couplings, fittings, HDPE fusion welding if required, related materials, Denso wrap (paste, mastic and tape), bedding and imported or native backfill as shown on the Contract Drawings, all surface restoration as specified under Section 31 23 01 – Excavating Trenching and Backfilling – 3.6 and all other work and materials necessary to complete the works as shown on the Contract Drawings and specified under this section.

All fittings, bolts, rods and any other metallic items used for this pay item shall be wrapped in Denso (paste, mastic and tape) in accordance with manufacturers' specifications and as specified in Contract Drawings.

Removal of vegetation, trees, stumps, and roots, if required as part the of the works, shall be considered incidental to the Contract.

Removal and reinstatement of flood berm/rip rap if required to facilitate fitting replacement shall be considered incidental to the Contract.

Payment will be made on a lump sum basis as specified in the Schedule of Quantities.

.8S *(add clause 1.6.8)*

Payment for gravity bypass pumping shall be lump sum and include all labour, materials and equipment required to facilitate replacement of fittings on existing sanitary gravity main shown on the Contract Drawings. Included but not limited to are primary and secondary pumps, tanks, fuel, power sources and backup power sources, pipes and/or hoses, fittings, valves, plugs and anything else required to facilitate the works. **The gravity bypass system shall be tested and monitored for a minimum duration of 24 hours prior to any cutting of the main.**

This pay item shall also include supply and installation of a sanitary gravity bypass pipe creek crossing system. The creek crossing system must be signed and sealed by a Structural Engineer and meet the following conditions:

- the equipment used for site preparation, or for construction, maintenance or removal of the crossing is situated in a dry stream channel or operated from the top of the bank;

- the crossing and its approach roads do not produce a back water effect or increase the head of the stream;
- the hydraulic capacity of the crossing is equivalent to the hydraulic capacity of the stream channel, or is capable of passing the 1 in 200 year maximum daily flow;
- the height of the underside of the crossing is adequate to provide free passage of flood debris and ice flows;
- the crossing is made of materials that meet the applicable standards of the Canadian Standards Association;

All bypass pipe crossing the creek must be seamless HDPE pipe for the entire span of the crossing extending for 30 meters beyond top of bank and be pressure tested for leaks prior to installation.

Access to the creek crossing system shall be fenced off to prevent the public tampering and/or trying to cross over the creek on the system. All efforts to secure safely are to be considered incidental to the Contract.

**3.21 Sewer Flow
Management**

.1S ***(add clause 3.21.1 as follows)***

Contractor to prepare and submit bypass plan to Contract Administrator for review and approval prior to works proceeding. This plan must be specific and complete, including such items as schedules, locations, elevations, capacities of equipment, materials and all other incidental items necessary and/or required to insure proper protection of the facilities, including protection of the access and bypass pumping locations from damage due to the discharge flows, and compliance with the requirements and permit conditions specified in these Contract Documents. At a minimum, the plan shall include but not be limited to details of the following:

- Staging area for pumps.
- Sewer plugging methods and types of plugs.
- Number, size, material, location and method of installation of suction piping.
- Number, size, material, method of installation and location of installation of discharge piping.
- Bypass pump sizes, capacity, number of each size to be on site.
- Method of noise control for each pump and/or generator.
- Any pipe supports and anchoring required at discharge manhole.
- Signed and sealed bypass creek crossing design drawing.
- Installation and removal methodology/sequencing of the creek crossing system and bypass pipe.
- Duration of bypass.

.2S *(add clause 3.21.2 as follows)*

The Contractor shall have adequate standby equipment available and ready for immediate operation and use in the event of an emergency or breakdown. Included but not limited to are the following:

- One standby pump for each size pump utilized shall be installed at the mainline flow bypassing locations, ready for use in the event of primary pump failure.
- At least one backup plug for each plug being used for the bypass system in the event that a plug fails.

END OF SECTION

1.8 Measurement and
Payment

.2S *(replace clause 1.8.2 with the following)*

Payment for sanitary sewage forcemains includes saw cutting pavement & concrete, trench excavation, dewatering, disposal of surplus excavated materials, cutting existing pipe, draining pipe, disposal of sewage and supply/installation of all pipe, couplings, fittings, related materials, HDPE fusion welding if required, related materials, bolts, gaskets, tie rods, Denso wrap (paste, mastic and tape), thrust blocks including lock-block thrust blocks, restrainers, cleaning and pressure and leakage testing (if applicable), bedding and imported or native backfill as shown on the Contract Drawings, all surface restoration as specified under Section 31 23 01 – Excavating Trenching and Backfilling – 3.6 and all other work and materials necessary to complete the works as shown on the Contract Drawings and specified under this section.

All fittings, bolts, rods and any other metallic items used for this pay item shall be wrapped in Denso (paste, mastic and tape) in accordance with manufacturers' specifications and as specified in Contract Drawings.

Removal of vegetation, trees, stumps, and roots, if required as part the of the works, shall be considered incidental to the Contract.

Removal and reinstatement of flood berm/rip rap if required to facilitate fitting replacement shall be considered incidental to the Contract.

Payment will be made on a lump sum basis as specified in the Schedule of Quantities.

.10S *(replace clause 1.8.10 with the following)*

The intent of this line item is to establish a pay item for supply, installation, and removal of the temporary forcemain bypass system which involves tie-in at existing SLS bypass port and downstream at existing buried tapping saddle. This is to facilitate the replacement of sanitary forcemain fittings as shown on Contract Drawings.

This pay item shall include but not be limited to pre-location of the existing forcemain, saw cutting pavement, trench excavation, dewatering, disposal of surplus excavated materials, supply and installation of all required hot taps, line stops, temporary bypass piping **(no flexible lay flat piping permitted – hard pipe only)**, bends, fittings, HDPE fusion welding, **trenching for road and driveway crossings**, cleaning and pressure and leakage testing (if applicable), bedding and imported or native backfill, all surface restoration as specified under Section 31 23 01 – Excavating Trenching and Backfilling

– 3.6 and any other related materials/efforts required to tie-in and bypass the forcemains as shown on the Contract Drawings.

This pay item shall also include supply and installation of a sanitary forcemain bypass pipe creek crossing system. The creek crossing system must be signed and sealed by a Structural Engineer and meet the following conditions:

- the equipment used for site preparation, or for construction, maintenance or removal of the crossing is situated in a dry stream channel or operated from the top of the bank;
- the crossing and its approach roads do not produce a back water effect or increase the head of the stream;
- the hydraulic capacity of the crossing is equivalent to the hydraulic capacity of the stream channel, or is capable of passing the 1 in 200 year maximum daily flow;
- the height of the underside of the crossing is adequate to provide free passage of flood debris and ice flows;
- the crossing is made of materials that meet the applicable standards of the Canadian Standards Association;

All bypass pipe crossing the creek must be seamless HDPE pipe for the entire span of the crossing extending for 30 meters beyond top of bank and be pressure tested for leaks prior to installation.

Access to the creek crossing system shall be fenced off to prevent the public tampering and/or trying to cross over the creek on the system. All efforts to secure safely are to be considered incidental to the Contract.

Removal of vegetation, trees, stumps, and roots, if required as part the of the works, shall be considered incidental to the Contract.

Also included is submission of a schematic showing forcemain pre-location details. **The Contractor shall pre-locate the existing forcemains as part of this item and in advance of preparing the bypass plan. The schematic will be reviewed & approved by the Contract Administrator prior to any bypass works taking place.**

3.17 Sewer Flow
Management

.1S *(add clause 3.17.1)*

Contractor to prepare and submit bypass plan to Contract Administrator for review and approval prior to works proceeding. This plan must be specific and complete, including such items as schedules, locations, equipment, materials and all other incidental items necessary and/or required to insure proper protection of the facilities. At a minimum, the plan shall include but not be limited to details of the following:

- Schematic of bypass pipe routing including but not limited to all bends, reducers, couplings, and any other fittings required
- Trench detail for road/driveway/sidewalk crossings
- Specification on bypass pipe, bends, reducers, couplings, and fittings
- Location/staging area for bypass discharge into existing forcemain
- Detailed schematic of existing saddles, new hot-taps and line-stop including but not limited to valves, couplings, reducers, fittings, and piping. The schematic should include FM pre-location details.
- Signed and sealed bypass creek crossing design drawing.
- Installation and removal methodology/sequencing of the creek crossing system and bypass pipe.
- Anticipated duration of bypass.

END OF SECTION

Owner: Resort Municipality of Whistler
(NAME OF OWNER)

Contract: 2024 Sewer and Water Valve and Fitting Repairs
(TITLE OF CONTRACT)

Reference No. E20508-E32006
(OWNER'S CONTRACT REFERENCE NO.)

General Conditions #	Paragraph #	Title	Action
3	.2	Authority	Delete GC3.2.2 and replace with: "Nothing contained in the <i>Contract Documents</i> shall create any contractual relationship or other relationship recognized by law between the <i>Contract Administrator</i> and the <i>Contractor</i> , subcontractors, suppliers, or their agents, employees or other persons performing any of the <i>Work</i> ."
3	3	Contract Administration	Delete GC3.3.5 and replace with: "The Owner shall provide the Contractor with three survey control points at the Place of the Work, and relative coordinates of the major portions of the Work. The Contract Administrator may conduct survey checks of the Work at their discretion. The Contractor shall provide a survey assistant, at the Contract Administrators request, for such survey checks. The Contractor shall protect and preserve such survey control points for so long as they are required for the Work and if any of them must be replaced because they are disturbed or destroyed by the Contractor, then the Contractor shall pay the costs of such replacement."
4.3	.1	Protection of Work, Property and the Public	Add: Within the terms of this clause, the <i>Contractor</i> is responsible for the protection of existing power and telephone poles during the term of the <i>Contract</i> .
	.4		Delete GC 4.3.4 and replace with the following: Before commencing any <i>Work</i> at the <i>Place of the Work</i> , the <i>Contractor</i> shall be responsible to locate in three dimensions all underground utilities and structures indicated on the <i>Contract Documents</i> as being at the <i>Place of the Work</i> . The <i>Contractor</i> shall also be responsible to consult with all utility corporations that provide electricity, communication, gas or other utility services in the area of the <i>Place of the Work</i> , to locate in three dimensions all underground utilities for which they have records. The <i>Contractor</i> shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the <i>Place of the Work</i> .

			The <i>Contractor</i> shall contact BC One Call at least 48 hours prior to excavating to advise of the Work.
4.5	.1	Errors, Inconsistencies or Omissions in the <i>Contract Documents</i>	GC4.5.1 are amended: (i) by deleting “or omission” wherever it appears and substituting “omission or any incorrect, inaccurate or misrepresented fact”, and (ii) by deleting “or omissions” wherever it appears and substituting “omissions or incorrect, inaccurate or misrepresented facts”.
	.4		Add GC4.5.4: “If Additional Instructions are required to address any error, inconsistency, omission or incorrect, inaccurate or misrepresented facts, the Contractor’s inefficiencies or mismanagement, if any, shall not be taken into account when determining any impact of those Additional Instructions on the Contract Price or the Contract Time.”
4.6	.2	Construction Schedule	GC4.6.2 is amended by deleting “monthly” and substituting “monthly or within a shorter time period specified in the <i>Contract Documents</i> ”.
4.12	.5	Tests and Inspections	GC4.12.2.5 (1) and (2) are amended by deleting “timely notice” and substituting “not less than two days”.
6.2	.1	Coordination and Connection	Add: The <i>Owner</i> or <i>Contract Administrator</i> will not be liable for claims for delay caused by applicable third parties, including, but not limited to BC Hydro, TELUS, Fortis BC, Shaw Cable, BC Transit, or Municipal Forces for work required to be undertaken on this <i>Contract</i> .
7.4	.2	Optional Work	Add GC 7.4.2: All items included in the <i>Schedule of Quantities and Prices</i> which stated to be Optional Work shall be used only as directed and at the sole discretion of the <i>Contract Administrator</i> .
	.3		Add GC 7.4.3 All or any unused portion of these sums shall revert to the RMOW and shall be deducted from the Contract Price before final payment is made. No claim for lost profit shall be made by the <i>Contractor</i> for the deletion of any or all of these optional items.
9.2	.4	Valuation Method	GC9.2.4 is amended by deleting “unless at the time of the agreement the <i>Contractor</i> expressly reserved in writing the right to claim for additional payment or Contract Time adjustments.”
11.1	.1	Concealed or Unknown Conditions Definition	GC 11.1.1(3) is deleted and the following substituted: “(3) differs materially and substantially from: i. the conditions of the Place of the Work that would have been evident to or reasonably foreseeable by a

			Contractor who was qualified to undertake the Work, and ii. any information in the Tender Documents or otherwise made available by the Owner with respect to any conditions of the Place of the Work that would not have been evident to or reasonably foreseeable by a contractor who was qualified to undertake the Work”.
13.1	.1	Delay by <i>Owner</i> or <i>Contract Administrator</i>	Add: The <i>Owner</i> or <i>Contract Administrator</i> will not be liable for claims for delay caused by applicable third parties, including, but not limited to BC Hydro, TELUS, Fortis BC, Shaw Cable, BC Transit, or Municipal forces for work required to be undertaken on this <i>Contract</i> .
13.9	.1	Liquidated Damages for Late Completion	GC 13.9.1.1 is amended by deleting “\$1000 per day” and substituting “\$1,500 per day”.
15.3	.1	Termination	GC 15.3.1 (1) is deleted and the following substituted: “(1) be entitled to: (i) take possession of the <i>Place of the Work</i> and the materials to be incorporated into the <i>Work</i> wherever they are located including materials ordered for the <i>Work</i> but not yet delivered, (ii) utilize the construction machinery and equipment, subject to the right of third parties, and (iii) complete the <i>Work</i> by whatever method the <i>Owner</i> may consider expedient, and
17	5	Referee	GC17.5.2(2) is deleted and the following substituted: 2) “if the parties have not agreed upon a Referee within 15 Days after the delivery of the Dispute Notice, then either party may make a written request to the Master Municipal Document Association to appoint the Referee within 10 Days of the written request. If after consultation with the parties, the Association is unable to appoint a Referee who is acceptable to both parties, the Association shall appoint as the Referee an individual who is qualified to act in that capacity under the Contract and who is independent and impartial.” GC17.5.3 is deleted and the following substituted: “If a Referee is selected for appointment as provided by this GC then the parties shall enter into an agreement with the Referee by signing a letter in the form as set out in Schedule 17.5.3 to these GC’s. If one party and the Referee sign the agreement and, after presentation, the other party fails or refuses to sign the agreement, the defaulting party shall be deemed to be a party to that agreement.” GC 17.5.8 is amended by adding after “The Referee” the following: “shall make decisions in a fair and impartial manner and”. GC17.5.II is amended

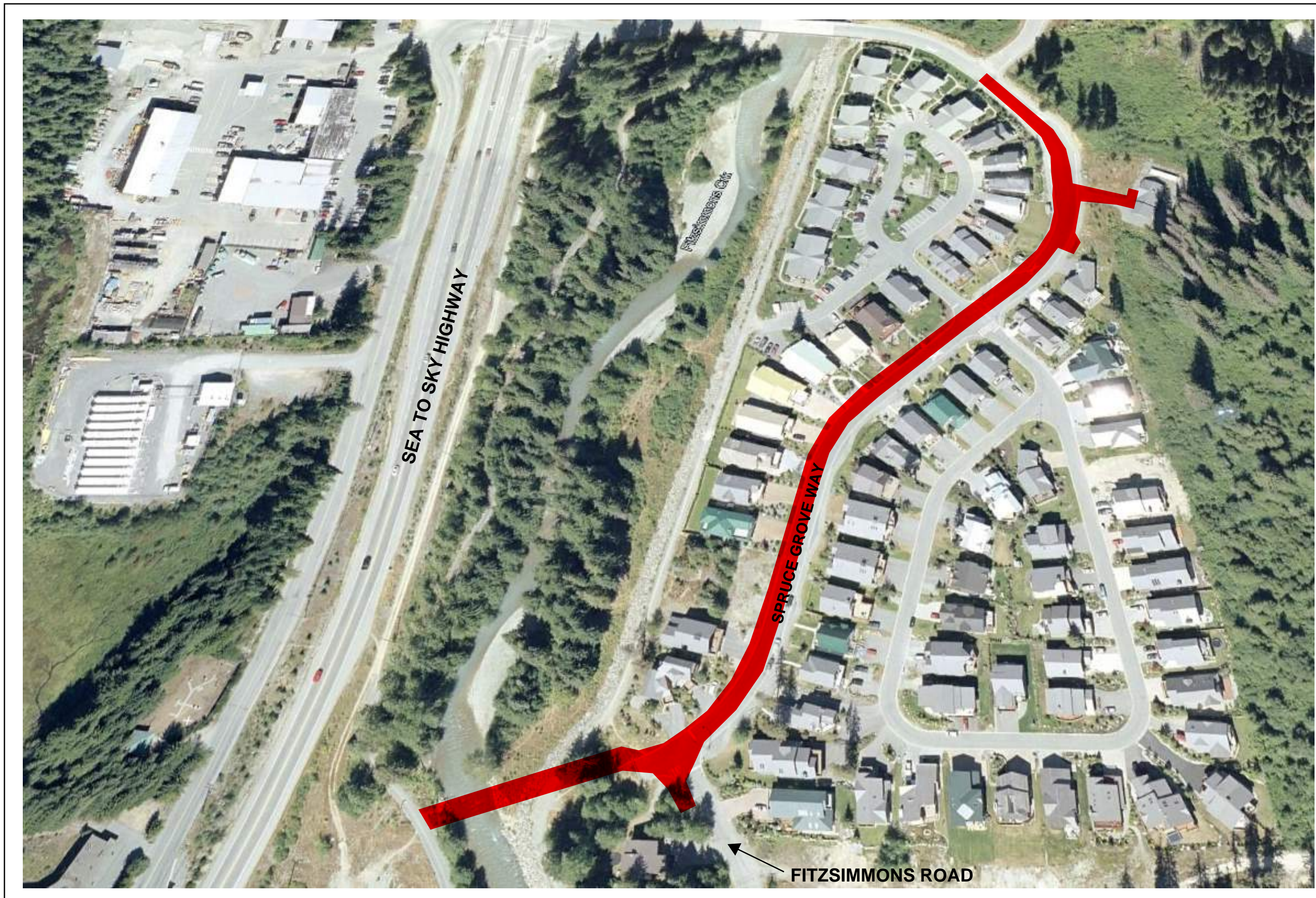
			<p>a) by renumbering it GC 17.5. 11.1 and by adding the following at the end “unless the parties agree otherwise.” and</p> <p>b) by adding the following: 17.5.11.2 Despite 17.5.1 1.1, on written application of a party, the Master Municipal Documents Association may revoke the appointment of the Referee if the Association is satisfied that the Referee is biased, unqualified to discharge the Referee’s duties, or has failed to diligently and conscientiously perform the Referee’s duties. A replacement Referee shall be selected for appointment as provided by this GC. GC17.5.13 is amended by deleting “by either party, or both parties,” and substituting the following: “by both parties but not by one party.”</p>
18.2	.1	Supporting Documentation	<p>Add:</p> <p>The <i>Contractor</i> shall not work on the <i>Site</i> or deliver materials for which delivery slips submitted to the <i>Owner</i> are the basis of payment unless the <i>Site Inspector</i> is present. However, if the <i>Contract Administrator</i> deems these requirements inappropriate then this requirement may be waived.</p>
18.9	.1	Waiver of Claims	<p>GC18.9.1 is amended by deleting the last sentence and substituting the following: This waiver of claims shall include without limitation those claims that might arise from: 1) the negligence or breach of contract by the <i>Owner</i>, its employees, agents or officials, or 2) the negligence or wrongful acts of the <i>Owner’s</i> consultants or the <i>Contract Administrator</i>, but does not include claims made by <i>the Contractor</i> in writing prior to such application in accordance with the provisions of the <i>Contract Documents</i> and delivered to the <i>Contract Administrator</i> prior to date of Substantial Performance and still unsettled.</p>
	.2		<p>GC 18.9.2 is amended by deleting the last sentence and substituting the following: This waiver of claims shall include without limitation those claims that might arise from: 1) the negligence or breach of <i>Contract</i> by the <i>Owner</i>, its employees, agents’, or officials, or 2) the negligence or wrongful acts of the <i>Owner’s</i> consultants or <i>Contract Administrator</i>, but does not include claims made by the <i>Contractor</i> in writing prior to such application in accordance with the provisions of the <i>Contract Documents</i> and delivered to the <i>Contract Administrator</i> and still unsettled.</p>
20.4	.2	Environmental Laws	<p>GC20.4 is amended by adding the following: 20.4.2 The <i>Contractor</i> shall indemnify the <i>Owner</i> for any costs, fines, expenses and penalties that the <i>Owner</i> is required to pay on account of the <i>Contractor</i> performing</p>

			the <i>Work</i> in breach of any applicable Federal or Provincial or municipal environmental laws, regulations, or orders.
21	.2		<p>Delete GC 2 1.2.1 and replace with the following As part of the <i>Work</i> the Contractor shall, to the extent reasonably possible, perform on behalf of the Owner the obligations which the Owner must undertake as “Prime Contractor” by virtue of the Workers’ Compensation Act and Regulations, or other statutes. The Contractor shall have a safety program acceptable to the Workers’ Compensation Board and shall ensure that all Workers’ Compensation Board safety rules and regulations are observed during performance of this contract, not only by the Contractor but by all sub-contractors, workers, material personnel and others engaged in the performance of this contract. The Contractor shall indemnify the RMOW and hold harmless the RMOW from all manner of claims, demand, costs, losses, penalties and proceedings arising out of or in any way related to unpaid Workers’ Compensation Board assessments owing from any person or corporation engaged in the performance of this contract, or arising out of or in any way related to the failure to observe safety rules, regulations and practices of the Workers’ Compensation Board, including penalties levied by the Workers’ Compensation Board.”</p>
24	.1	Required Insurance	<p>In addition to the MMCD insurance requirements, the <i>Contractor</i> shall also comply with the following requirements of the RMOW, which will take precedence: “The <i>Contractor</i> shall insure and keep insured while this contract is in force, with such companies and on such forms as are acceptable to the RMOW, at the <i>Contractor’s</i> expense, Comprehensive General Liability Insurance covering premises and operations liability; <i>Contractor’s</i> Contingency Liability with respect to the operations of Subcontractor’s Completed Operations Liability, Contractual Liability and Non-Owned Automobile Liability Insurance. The limits of liability for Personal Injury and Property Damage combined shall be for not less than \$5,000,000 each occurrence. The RMOW and ISL Engineering and Land Services shall be added as additional named insured under the Comprehensive General Liability. A Cross Liability Clause shall be made part of the Comprehensive General Liability Insurance. All policies shall provide that they cannot be cancelled, lapsed, or materially changed without at least thirty (30) days notice to the RMOW by Registered Mail. Prior to the commencement of any work hereunder, the <i>Contractor</i> shall file with the RMOW a certificate of insurance for each policy required.</p>

			<p>All such insurance shall be maintained until final completion of the work, including the making good of faulty work or materials, except that coverage for completed operations liability shall in any event be maintained for twelve (12) months from date of final acceptance.</p> <p>Should the <i>Contractor</i> neglect to obtain and/or maintain insurance as aforesaid, or deliver such policy or policies to the RMOW, then it shall be lawful for the RMOW to obtain and/or maintain such insurance and the <i>Contractor</i> hereby appoints the RMOW their true and lawful attorney to do all things necessary for this purpose. All monies expended by the RMOW for insurance premiums under the provisions of this clause shall be charged to the <i>Contractor</i>.”</p>
25.1	.2	Correction of Defects	<p>Add to Clause:</p> <p>“Where in the opinion of the <i>Owner</i>, delay would cause serious loss or damage, repairs may be made without notice being sent to the <i>Contractor</i> and all expenses incurred will be charged to the <i>Contractor</i>.”</p>
	.3		<p>GC25. 1.3 is deleted and the following substituted: 25.1.3 The <i>Owner</i> shall provide the <i>Contractor</i> with access, at all reasonable times, to the location of any defect or deficiency described in this GC to enable the <i>Contractor</i> to correct the defect or deficiency but the <i>Contractor</i> shall be responsible for</p> <ol style="list-style-type: none"> 1) exposure of the defect or deficiency in order to correct or repair the defect, deficiency, 2) the restoration of the <i>Work</i> or other property that is disturbed or damaged in the course of <ol style="list-style-type: none"> (i) exposing the defect or deficiency, or (ii) correcting or repairing the defect or deficiency, and 3) all risks associated with any activity described in paragraphs (1) and (2).
26.1	.1	Partial Use	<p>GC26. 1. 1 is amended by deleting “on written approval of the <i>Contract Administrator</i>” and substituting “with prior written notice to the <i>Contract Administrator</i>”.</p>

Appendix A
Contract Drawings

GENERAL PROJECT LIMITS

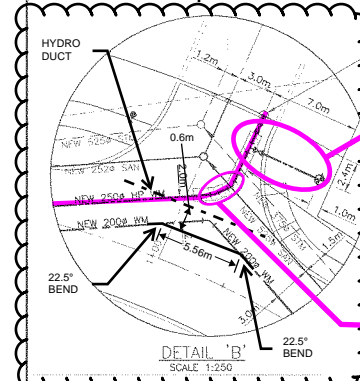


GENERAL NOTES:

- 1) ALL FITTINGS AND CHANGES IN DIRECTION TO BE FULLY RESTRAINED c/w CONCRETE THRUST BLOCKS
- 2) ALL FITTINGS, VALVES, COUPLERS, RESTRAINERS, BOLTS, NUTS, TIE RODS AND OTHER IRON WORKS TO BE FULLY WRAPPED IN DENSO PER MANUFACTURERS RECOMMENDATIONS (PASTE, MASTIC and TAPE).
- 3) ALL RESTRAINED COUPLINGS TO BE ALPHA ROMAC.
- 4) ALL PVC PIPE TO BE C900 DR18
- 5) FITTINGS TO BE WRAPPED IN POLY PRIOR TO POURING THRUST BLOCKS.

See revised Detail B

FOR SEE DETAIL 'B' THIS DRAWING



W4-20

STA 1+13.5 o/s 3.0m RT
1-250Ø CAP
1-250Ø TTY X TTY GATE VALVE
1-250Ø TTY X TTY GATE VALVE
1-TCW-C-71P HYDRANT ASSEMBLY
c/w STANDARD THRUST BLOCKING
N 2976.88 E 3672.18

W4-20

STA 1+10.8 o/s 3.0m RT
1-250Ø TTY X 250Ø TTY X 150Ø FL TEE
1-150Ø FL X TTY GATE VALVE
1-250Ø TTY X TTY GATE VALVE
1-TCW-C-71P HYDRANT ASSEMBLY
c/w STANDARD THRUST BLOCKING
N 2976.88 E 3670.03

W4-20

HEAT SHRINK WRAP WATERMAIN 3.0m EITHER SIDE OF SAN AND STM. CROSSINGS IN ACCORDANCE WITH M.O.H. REQUIREMENTS (SEE NOTE 1)

W4-20

STA 1+31.71 o/s 4.8m LT
1-250Ø TTY X TTY 45° BEND
1-250Ø TTY X TTY 22 1/2° BEND
c/w STANDARD THRUST BLOCKING
N 2979.07 E 3666.94

W4-20: HYDRANT TO BE REMOVED. VALVES TO BE ABANDONED. SEE TYPICAL DETAIL ON THIS DRAWING.

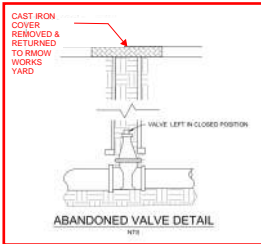
W4-19

HOT TAP 200mmØ LP WM. SUPPLY AND INSTALL NEW HYDRANT ASSEMBLY TO REPLACE ABANDONED ON HP WM.

1 x HYDRANT ASSEMBLY (INCLUDES BRANCH VALVE AND LEAD)

W4-21

STA 14+03.3 o/s 3.0m RT
1-200Ø FL X 200Ø FL X 150Ø FL TEE
2-200Ø FL X TTY GATE VALVE
2-150Ø FL X TTY GATE VALVE
c/w STANDARD THRUST BLOCKING
N 2936.22 E 3615.45



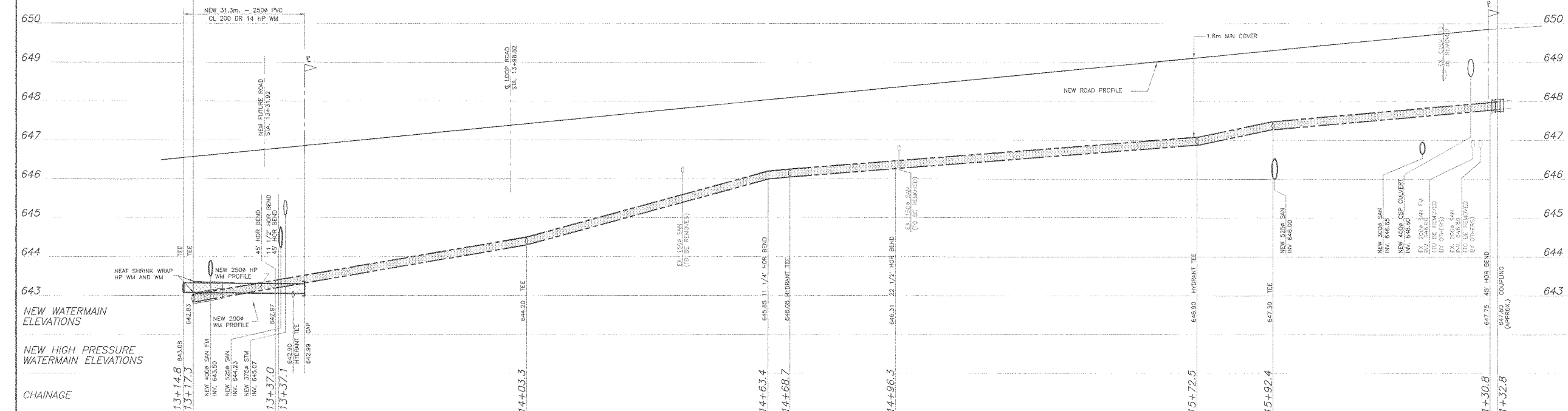
RECORD INFORMATION DISCLAIMER: Record information provided by the RMOW is to be used as a reference material only. The RMOW makes every reasonable effort to ensure the accuracy of the information. However, some record information inherently contains errors to some degree. It is the duty of the property owner, engineer, contractor, designer or other licensed professional to determine the suitability of the record information prior to construction. Measurements should be field confirmed before commencing construction. The RMOW accepts no liability for any loss or damage as a result of the use of this information.

NOTES

- 1 - MINISTRY OF HEALTH (M.O.H.) STANDARDS
 - A) SHRINK WRAP OR TAPE WRAP
 - ANSI/AWWA C214 (FACTORY APPLIED)
 - ANSI/AWWA C209 (FIELD APPLIED)
 - ANSI/AWWA C217-90 (PETROLIUM TAPE)
- 2 - ALL MATERIALS USED ARE TO HAVE ZERO HEALTH HAZARD.
- 3 - ALL CROSSINGS SHALL BE MADE MIDWAY ON FULL LENGTH OF PIPE.

LEGEND

- TO BE REPLACED
- TO BE ABANDONED
- TO BE INSTALLED



NO	REVISION	BY	DATE
5	AS PER R.M.O.W. COMMENTS	H.R.	01/19/21
4	GENERAL REVISIONS	H.R.	10/13/20
3	AS PER R.M.O.W. COMMENTS	R.R.	08/04/20
7	CONSTRUCTION RECORD DRAWING	J.M.	03/19/18
6	PER R.M.O.W. COMMENTS	R.W.	06/09/17

THE LOCATIONS OF EXIST. UNDERGROUND UTILITIES ARE SHOWN IN AN APPROX. WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXIST. UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTES:

BENCH MARK: WATER RESOURCES MONUMENT No. 1685 ON THE NORTHERLY FACE OF MONS OVERPASS APPROXIMATELY 525.0m SOUTH OF LOT 'A', D.L. 1756 AND D.L. 1757 PLAN LMP 24298 CP 1 N.W.D. ELEV. 640.702 NAD 83.

DRWN: H.R./R.R.

950N J.G.

CH'D: D.M.

DATE: MARCH 1994

WEB ENGINEERING LTD

consulting civil engineers

4175 DUNDAS STREET, BURNABY, B.C. 141 294-8888

495 F. BURNHAM STREET, MARKHAM, B.C. 141 724-4669

204-6940 KING GEORGE HWY. SUITE 207, R.C. 141 896-8686

211-9700 TRINITY STREET, RICHMOND, B.C. 141 896-4299

GREENSIDE PROPERTIES LTD.

GREENSIDE VILLAGE DEVELOPMENT

BLACKCOMB WAY WATERWORKS

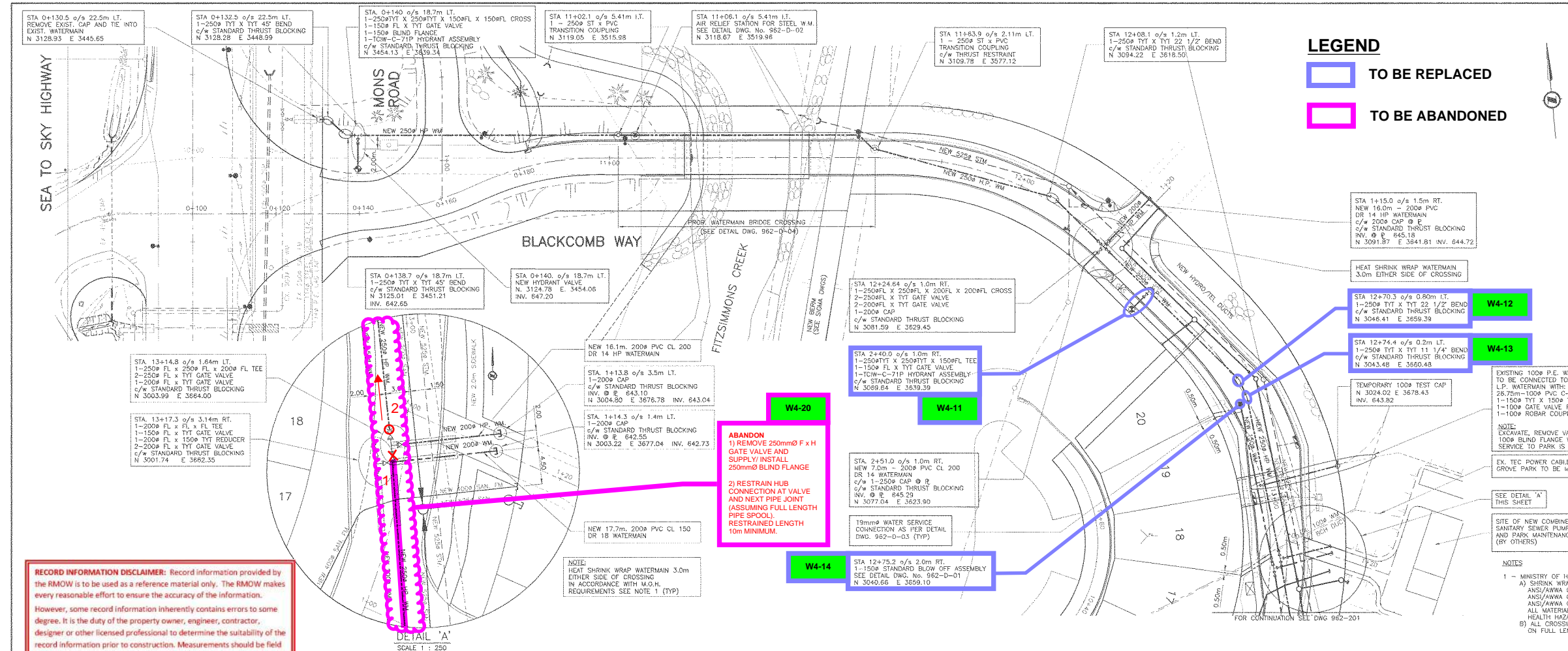
SCALE: HORIZ. 1:500
VERT. 1:50

SHEET 18 OF 51

WER DRAWING NO.: 962-201

MUNICIPAL NO.:

	DWG. NO.	32564-2024-WAT-001
	DATE	2024-01-22
	REVISION	1

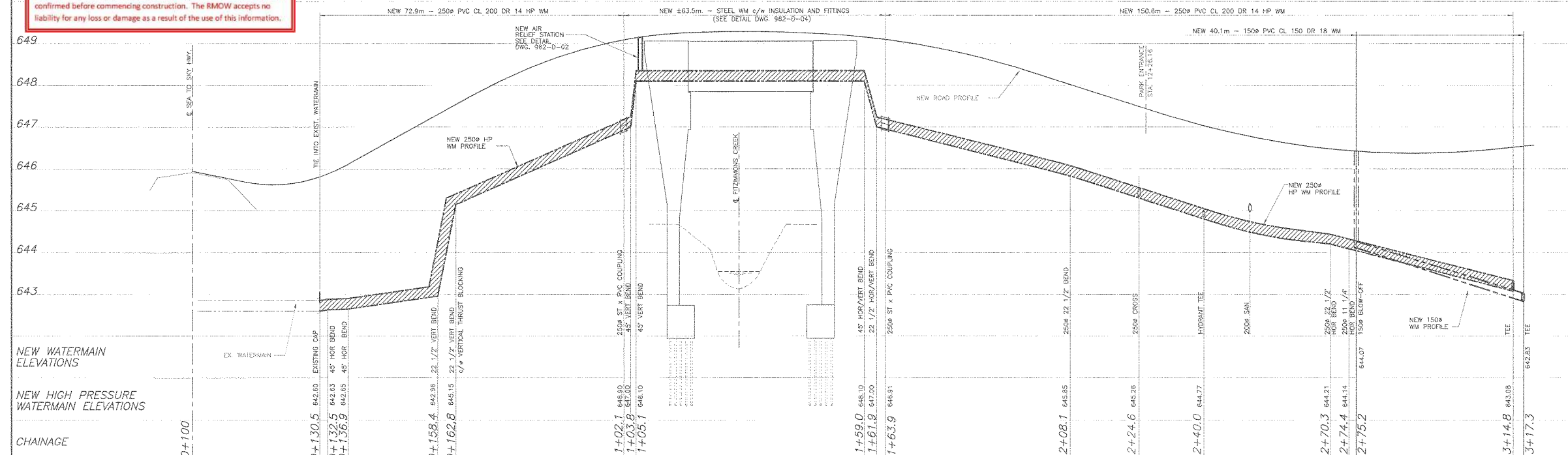


GENERAL NOTES:

- 1) ALL FITTINGS AND CHANGES IN DIRECTION TO BE FULLY RESTRAINED c/w CONCRETE THRUST BLOCKS.
- 2) ALL FITTINGS, VALVES, COUPLERS, RESTRAINERS, BOLTS, NUTS, TIE RODS AND OTHER IRON WORKS TO BE FULLY WRAPPED IN DENSO PER MANUFACTURERS RECOMMENDATIONS (PASTE, MASTIC and TAPE).
- 3) ALL RESTRAINED COUPLINGS TO BE ALPHA ROMAC.
- 4) ALL PVC PIPE TO BE C900 DR18
- 5) FITTINGS TO BE WRAPPED IN POLY PRIOR TO POURING THRUST BLOCKS.

RECORD INFORMATION DISCLAIMER: Record information provided by the RMOW is to be used as a reference material only. The RMOW makes every reasonable effort to ensure the accuracy of the information. However, some record information inherently contains errors to some degree. It is the duty of the property owner, engineer, contractor, designer or other licensed professional to determine the suitability of the record information prior to construction. Measurements should be field confirmed before commencing construction. The RMOW accepts no liability for any loss or damage as a result of the use of this information.

ABANDON
 1) REMOVE 250mmØ F x H GATE VALVE AND SUPPLY INSTALL 250mmØ BLIND FLANGE
 2) RESTRAIN HUB CONNECTION AT VALVE AND NEXT PIPE JOINT (ASSUMING FULL LENGTH PIPE SPOOL) RESTRAINED LENGTH 10m MINIMUM.



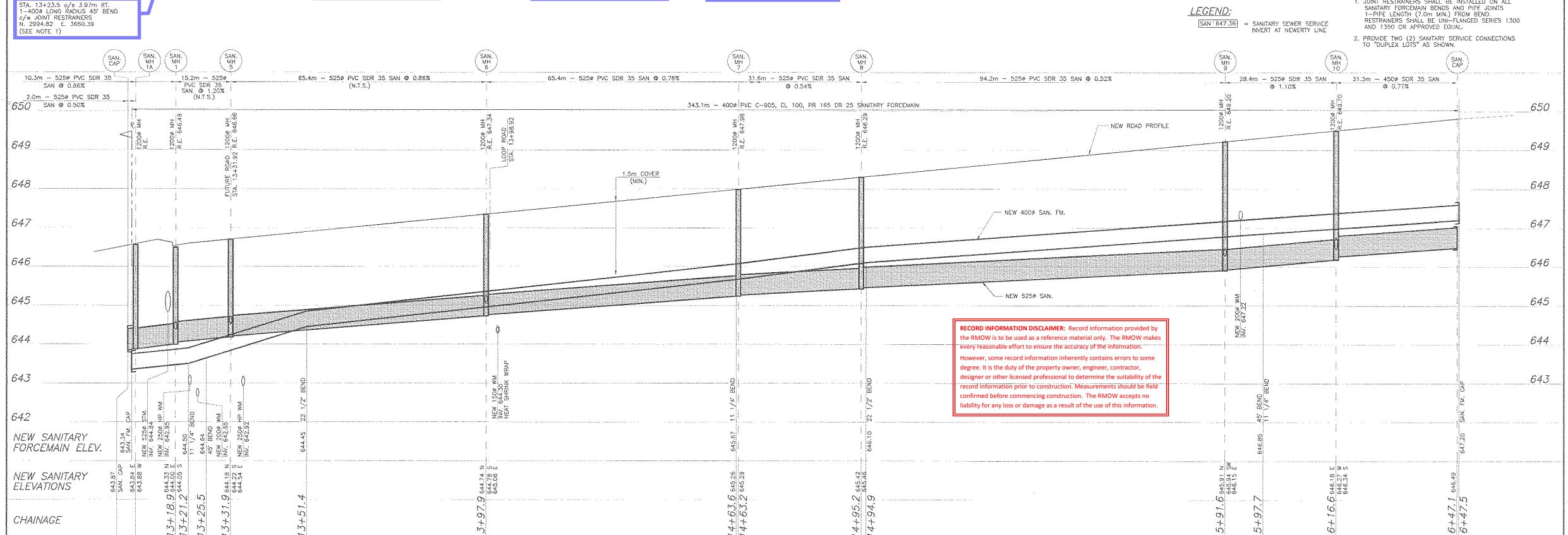
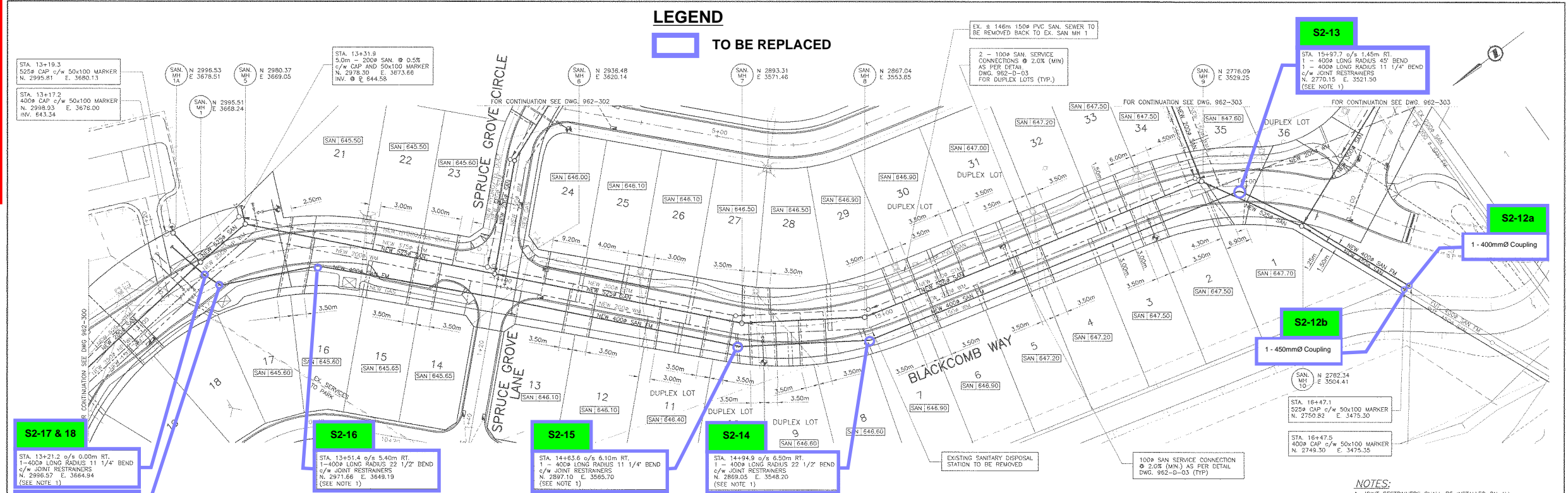
NO.	REVISIONS	BY	DATE
5	GENERAL REVISIONS	KW	06/23
4	AS PER R.M.O.W. COMMENTS	R.R.	12/26
3	GENERAL REVISIONS	H.R.	10/29
7	CONSTRUCTION RECORD DRAWING	J.M.	03/28
6	APPROVED PER R.M.O.W.	R.W.	07/23

THE LOCATIONS OF EXIST. UNDERGROUND UTILITIES ARE SHOWN IN AN APPROX. WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXIST. UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.	NOTICES: BENCH MARK: WATER RESOURCES MONUMENT NO. 1685 ON THE NORTHERLY FACE OF MONS OVERPASS APPROXIMATELY 525.0M SOUTH OF LOT 'A', D.L. 1756 AND D.L. 1757 PLAN LMP 24298 CP 1 N.W.D. ELEV. 640.702 MAB 83.	DRWN.: H.R./R.R. DSGN.: J.G. CHKD.: D.L.M. DATE: MARCH 1994	WEB ENGINEERING LTD consulting civil engineers 4173 DAWSON STREET, BURKHEAD, B.C. TEL: 284-8588 605 F. BURNHIDE STREET, NANAIMO, B.C. TEL: 794-8669 304-6046 KING GEORGE HWY, SUDBURY, B.C. TEL: 680-6566 211-9710 TRUSLOW STREET, VICTORIA, B.C. TEL: 855-4299	CLIENT: GREENSIDE PROPERTIES LTD. GREENSIDE VILLAGE DEVELOPMENT BLACKCOMB WAY WATERWORKS	SCALE: HOR: 1:500 VER: 1:500 SHEET 17 OF 51 WEB DRAWING NO.: 962-200 MUNICIPAL NO.:
--	--	--	---	---	---

ISL	DWG. NO.	32564-2024-WAT-002
	DATE	2024-01-22
	REVISION	1

GENERAL NOTES:

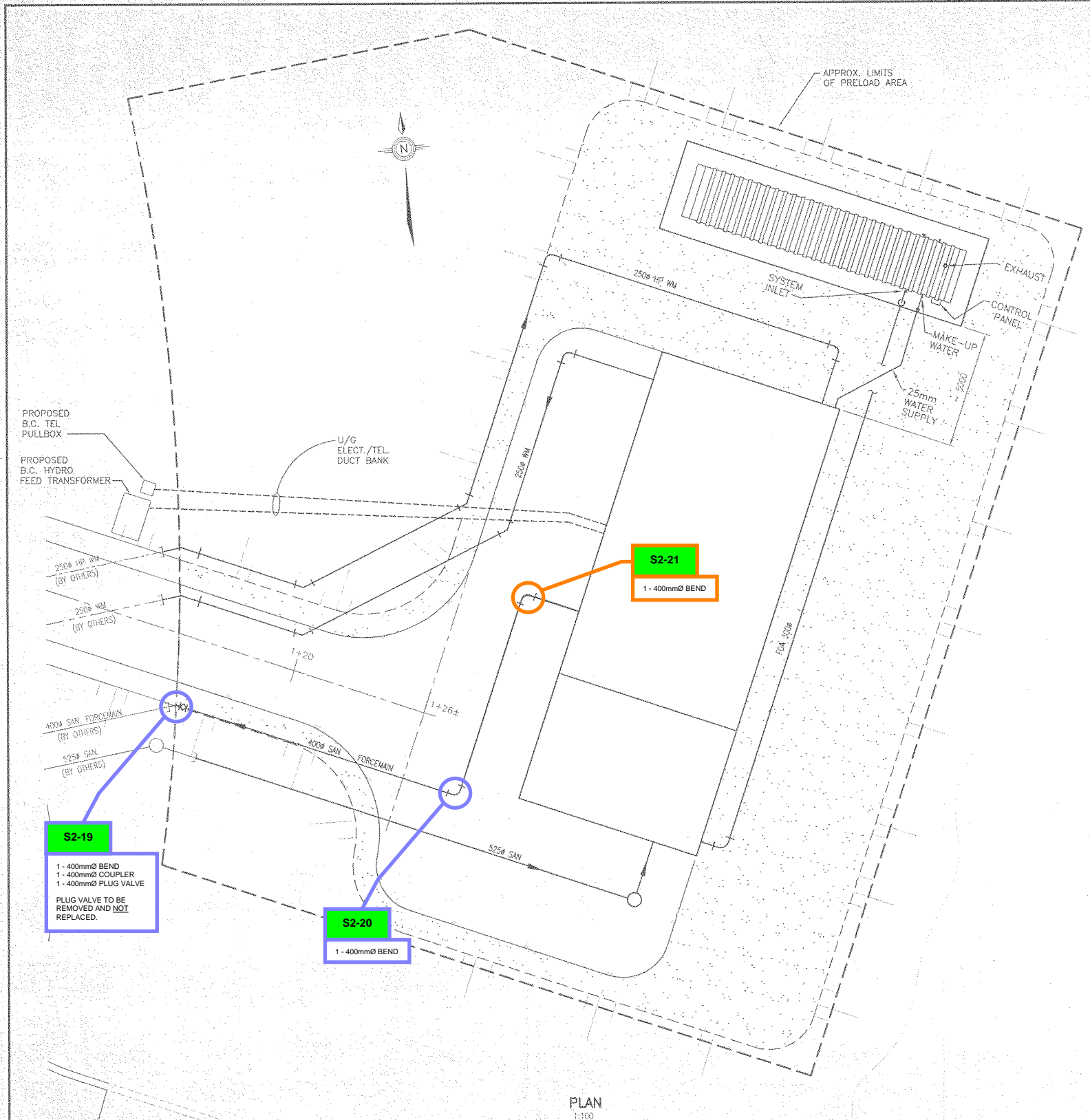
- 1) ALL FITTINGS AND CHANGES IN DIRECTION TO BE FULLY RESTRAINED c/w CONCRETE THRUST BLOCKS.
- 2) ALL FITTINGS, VALVES, COUPLERS, RESTRAINERS, BOLTS, NUTS, TIE RODS AND OTHER IRON WORKS TO BE FULLY WRAPPED IN DENSO PER MANUFACTURERS RECOMMENDATIONS (PASTE, MASTIC and TAPE).
- 3) ALL RESTRAINED COUPLINGS TO BE ALPHA ROMAC.
- 4) ALL PVC PIPE TO BE C900 DR25
- 5) FITTINGS TO BE WRAPPED IN POLY PRIOR TO POURING THRUST BLOCKS.



NO.	REVISIONS	BY	DATE
7	CONSTRUCTION RECORD DRAWING	J.M.	03/09/24
6	AS PER R.M.O.W. COMMENTS	R.R.	06/07/24
5	AS PER R.M.O.W. COMMENTS	R.R.	12/06/23
4	GENERAL REVISIONS	R.R.	10/09/23
3	AS PER R.M.O.W. COMMENTS	H.R.	10/09/23

<p>THE LOCATIONS OF EXIST. UNDERGROUND UTILITIES ARE SHOWN IN AN APPROX. WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXIST. UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.</p>	<p>NOTES:</p> <p>BENCH MARK: WATER RESOURCES MONUMENT NO. 1685 ON THE NORTHERLY FACE OF MANS OVERPASS APPROXIMATELY 325.0m SOUTH OF LOT 'A', D.L. 1756 AND D.L. 1757 PLAN LMP 24298 CP 1 N.W.D. ELEV. 640.702 MGD 83.</p>	<p>DRWN: R.R./H.R.</p> <p>DSGN: J.S.</p> <p>CHKD: D.M.</p> <p>DATE: MARCH 1994</p>	<p>WEB ENGINEERING LTD consulting civil engineers</p> <p>4170 BARNOR STREET, BURNABY, B.C. TEL: 294-6568 410 P. OCKENBROOK STREET, VANUVER, B.C. TEL: 704-4589 204-6040 BIRD STREET, FERRY, B.C. TEL: 540-6508 211-5110 TILDEN STREET, SEASIDE, B.C. TEL: 669-4268</p>	<p>CLIENT: GREENSIDE PROPERTIES LTD.</p> <p>GREENSIDE VILLAGE DEVELOPMENT BLACKCOMB WAY SANITARY SEWER</p> <p>SCALE: HDR 1:500 VER. 1:50</p> <p>SHEET 21 OF 51</p> <p>WEB DRAWING NO. 962-301</p> <p>MUNICIPAL NO.:</p>
---	---	--	--	---

SPRUCE GROVE PRV & LIFT STATION



- GENERAL NOTES:**
- 1) ALL FITTINGS AND CHANGES IN DIRECTION TO BE FULLY RESTRAINED c/w CONCRETE THRUST BLOCKS.
 - 2) ALL FITTINGS, VALVES, COUPLERS, RESTRAINERS, BOLTS, NUTS, TIE RODS AND OTHER IRON WORKS TO BE FULLY WRAPPED IN DENSO PER MANUFACTURERS RECOMMENDATIONS (PASTE, MASTIC and TAPE).
 - 3) ALL RESTRAINED COUPLINGS TO BE ALPHA ROMAC.
 - 4) ALL PVC PIPE TO BE C900 DR25
 - 5) FITTINGS TO BE WRAPPED IN POLY PRIOR TO POURING THRUST BLOCKS.

- LEGEND**
- TO BE REPLACED
 - TO BE INVESTIGATED

PLAN
1:100

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
B	MAR/98	ES	RW	RW	RECORD DRAWING						

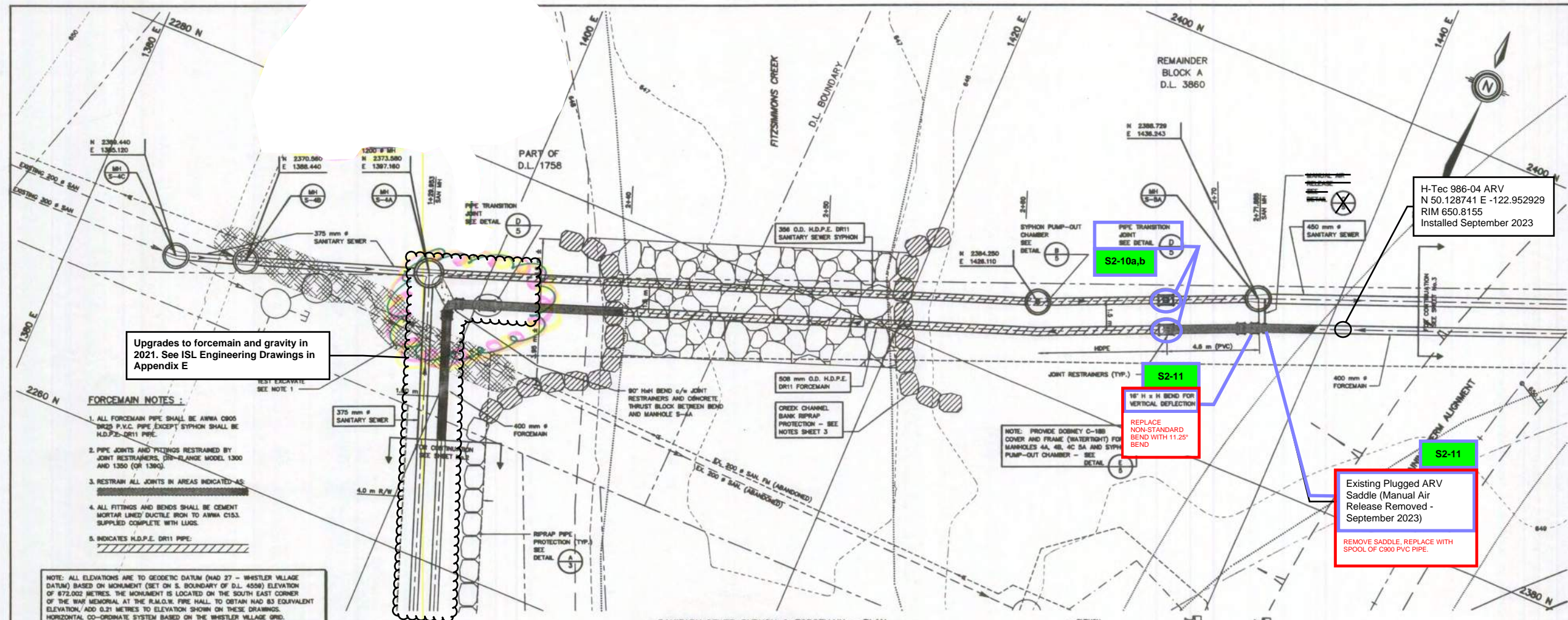
DESIGNED	R.W.
DRAWN	G.SAM
CHECKED	

DAYTON & KNIGHT LTD.
Consulting Engineers

RESORT MUNICIPALITY OF WHISTLER
NORTHEAST SECTOR LIFT STATION & PRV STATION
MECHANICAL - ODOUR CONTROL SYSTEM - OPTION "A"

SCALE: AS SHOWN	M6
DRAWING No. 178.5.3	
SHEET 20 OF 26	ISSUE B

ISL	DWG. NO.	32564-2024-SAN-002
	DATE	2024-01-22
	REVISION	1



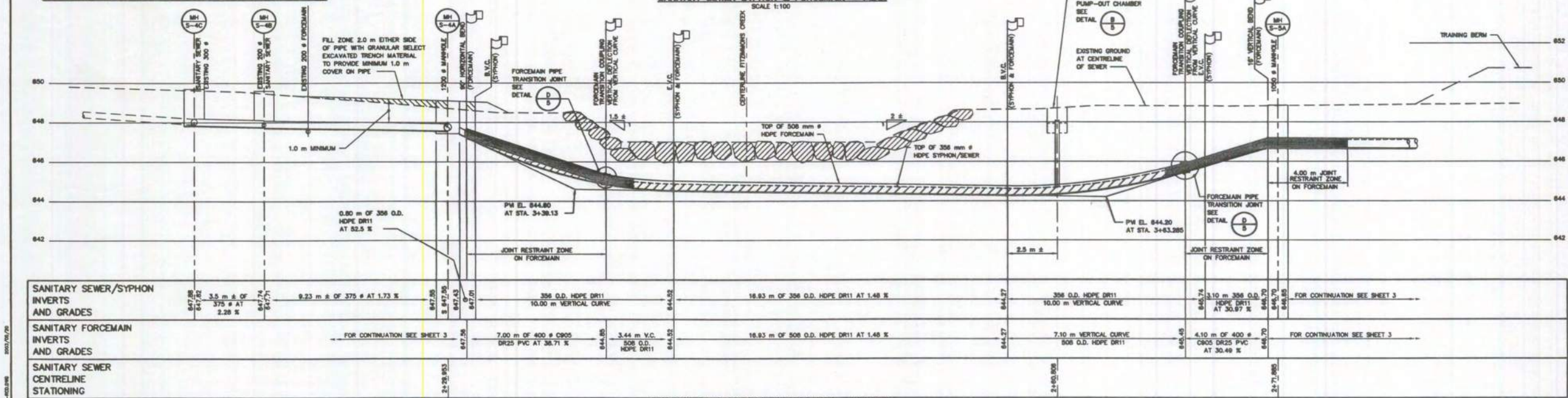
- GENERAL NOTES:**
- 1) ALL FITTINGS AND CHANGES IN DIRECTION TO BE FULLY RESTRAINED c/w CONCRETE THRUST BLOCKS.
 - 2) ALL FITTINGS, VALVES, COUPLERS, RESTRAINERS, BOLTS, NUTS, TIE RODS AND OTHER IRON WORKS TO BE FULLY WRAPPED IN DENSO PER MANUFACTURERS RECOMMENDATIONS (PASTE, MASTIC and TAPE).
 - 3) ALL RESTRAINED COUPLINGS TO BE ALPHA ROMAC.
 - 4) ALL PVC PIPE TO BE C900 DR25
 - 5) FITTINGS TO BE WRAPPED IN POLY PRIOR TO POURING THRUST BLOCKS.

LEGEND

TO BE REPLACED

- FORCEMAIN NOTES:**
1. ALL FORCEMAIN PIPE SHALL BE ANWA C905 308mm P.V.C. PIPE EXCEPT SYPHON SHALL BE H.D.P.E. DR11 PIPE.
 2. PIPE JOINTS AND FITTINGS RESTRAINED BY JOINT RESTRAINERS, 300-LRANGE MODEL 1300 AND 1350 (OR 1300).
 3. RESTRAIN ALL JOINTS IN AREAS INDICATED AS:
 4. ALL FITTINGS AND BENDS SHALL BE CEMENT MORTAR LINED DUCTILE IRON TO ANWA C153. SUPPLIED COMPLETE WITH LUGS.
 5. INDICATES H.D.P.E. DR11 PIPE:

NOTE: ALL ELEVATIONS ARE TO GEODETIC DATUM (NAD 27 - WHISTLER VILLAGE DATUM) BASED ON MONUMENT (SET ON S. BOUNDARY OF D.L. 4508) ELEVATION OF 872.002 METRES. THE MONUMENT IS LOCATED ON THE SOUTH EAST CORNER OF THE WH MEMORIAL AT THE R.L.D.O. FIRE HALL. TO OBTAIN NAD 83 EQUIVALENT ELEVATION, ADD 0.21 METRES TO ELEVATION SHOWN ON THESE DRAWINGS. HORIZONTAL CO-ORDINATE SYSTEM BASED ON THE WHISTLER VILLAGE GRID.



ISSUE	DATE	DRN	CH'D	APP'D	DESCRIPTION
B	07/04/20	DHA			ISSUED FOR CONSTRUCTION
C	07/05/20	SPB			REVISED OFFSETS
D	03/05/20	PL/SPB	SPB	PL	RECORD DRAWING

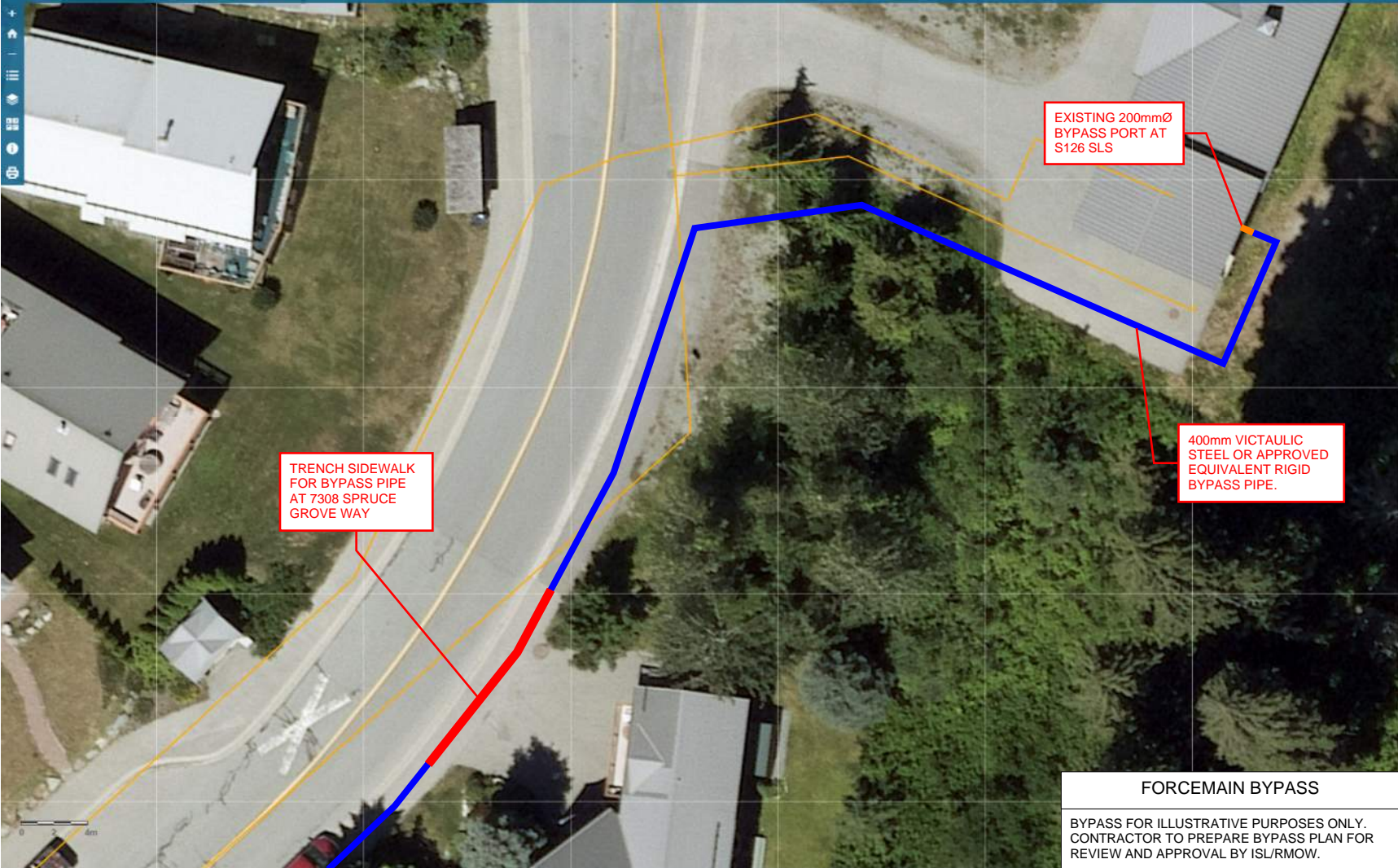
KERR WOOD LEIDAL ASSOCIATES LTD.
CONSULTING ENGINEERS

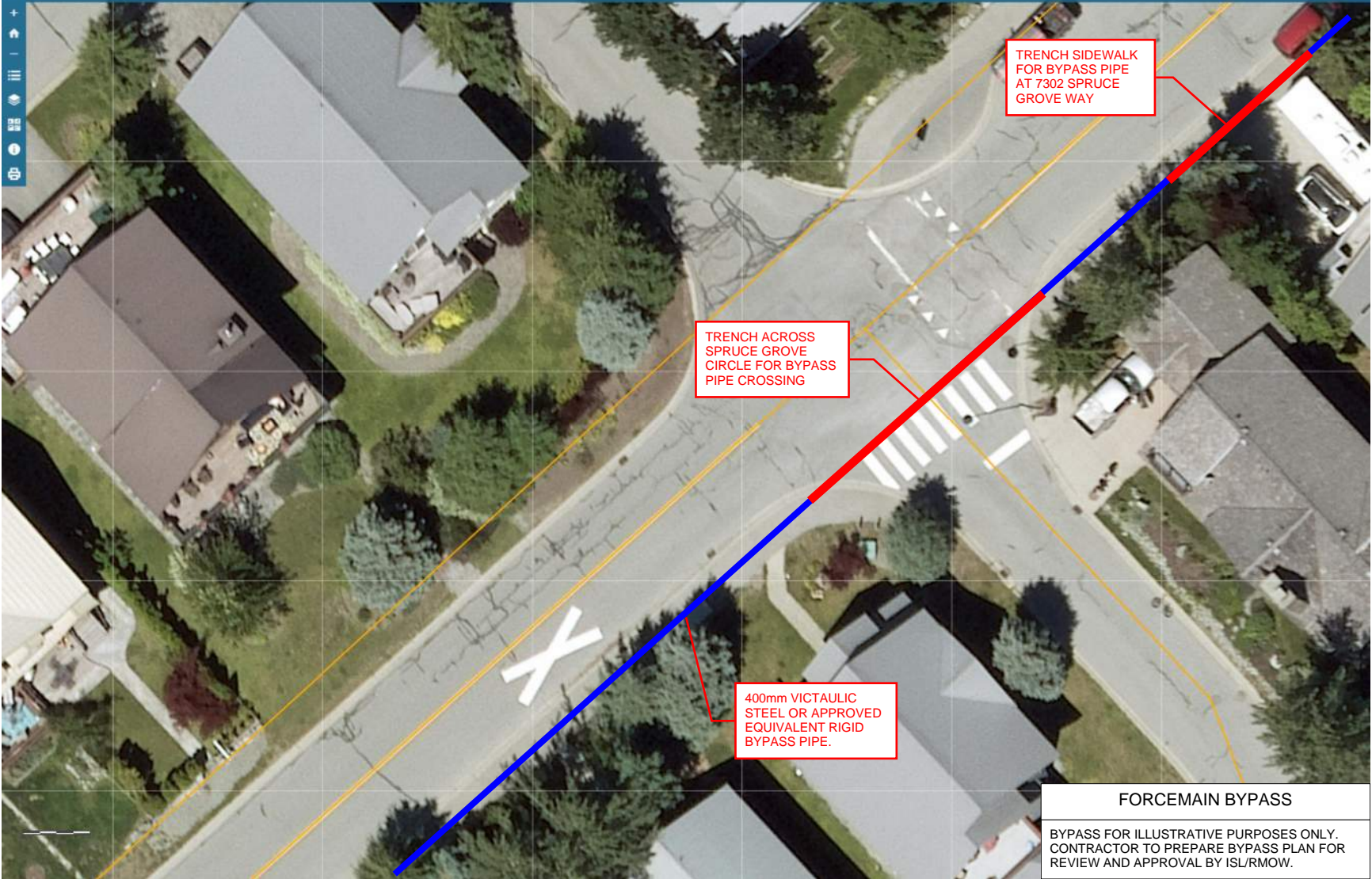
RESORT MUNICIPALITY OF WHISTLER
CONSTRUCTION OF SANITARY SEWER AND FORCEMAIN
NANCY GREENE DRIVE TO GREENSIDE VILLAGE
FITZSIMMONS CREEK CROSSING - PLAN AND PROFILE

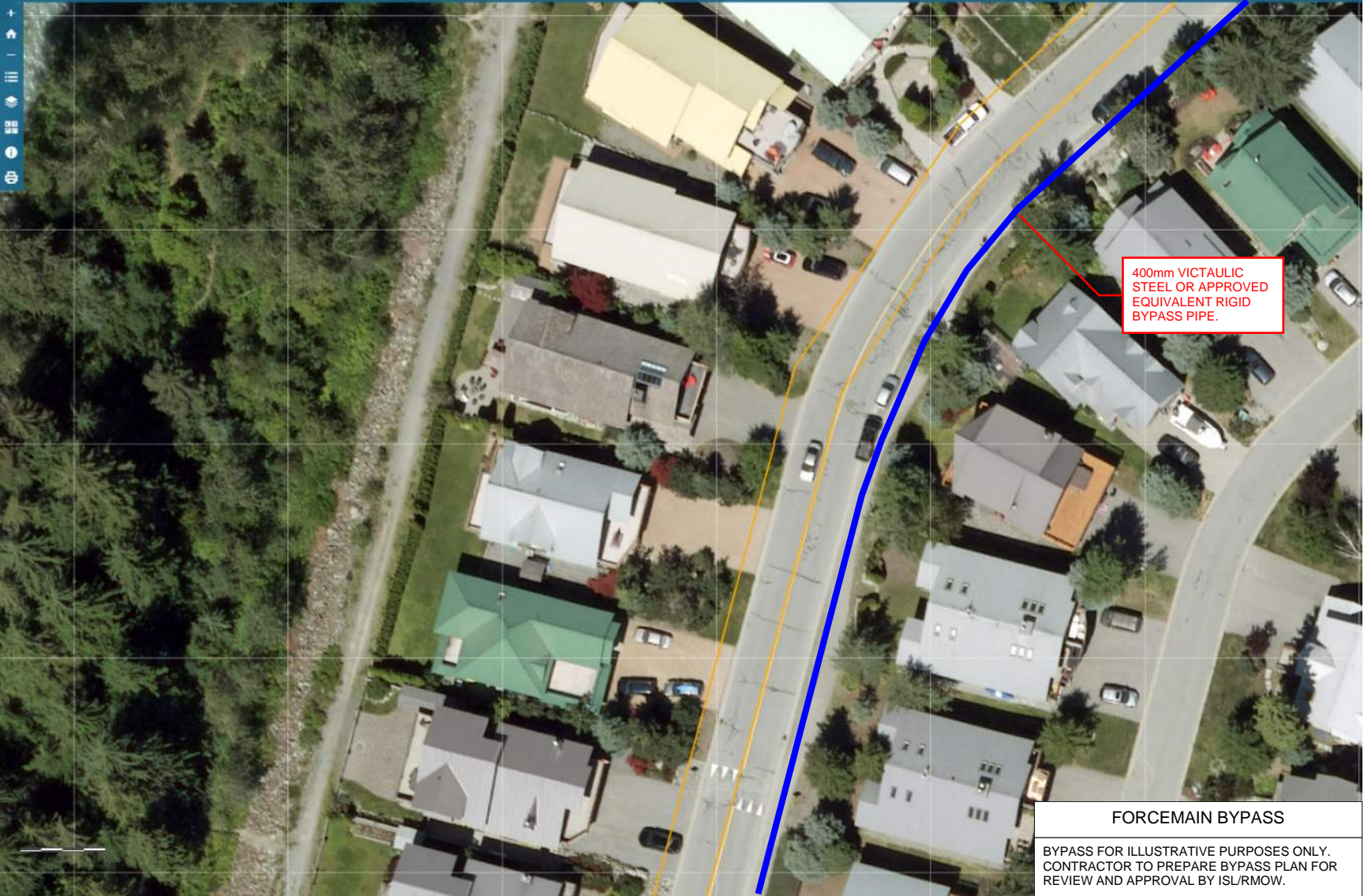
DWG. NO.	32564-2024-SAN-003
DATE	2024-01-22
REVISION	1



Appendix B
Sanitary Bypass
Concepts



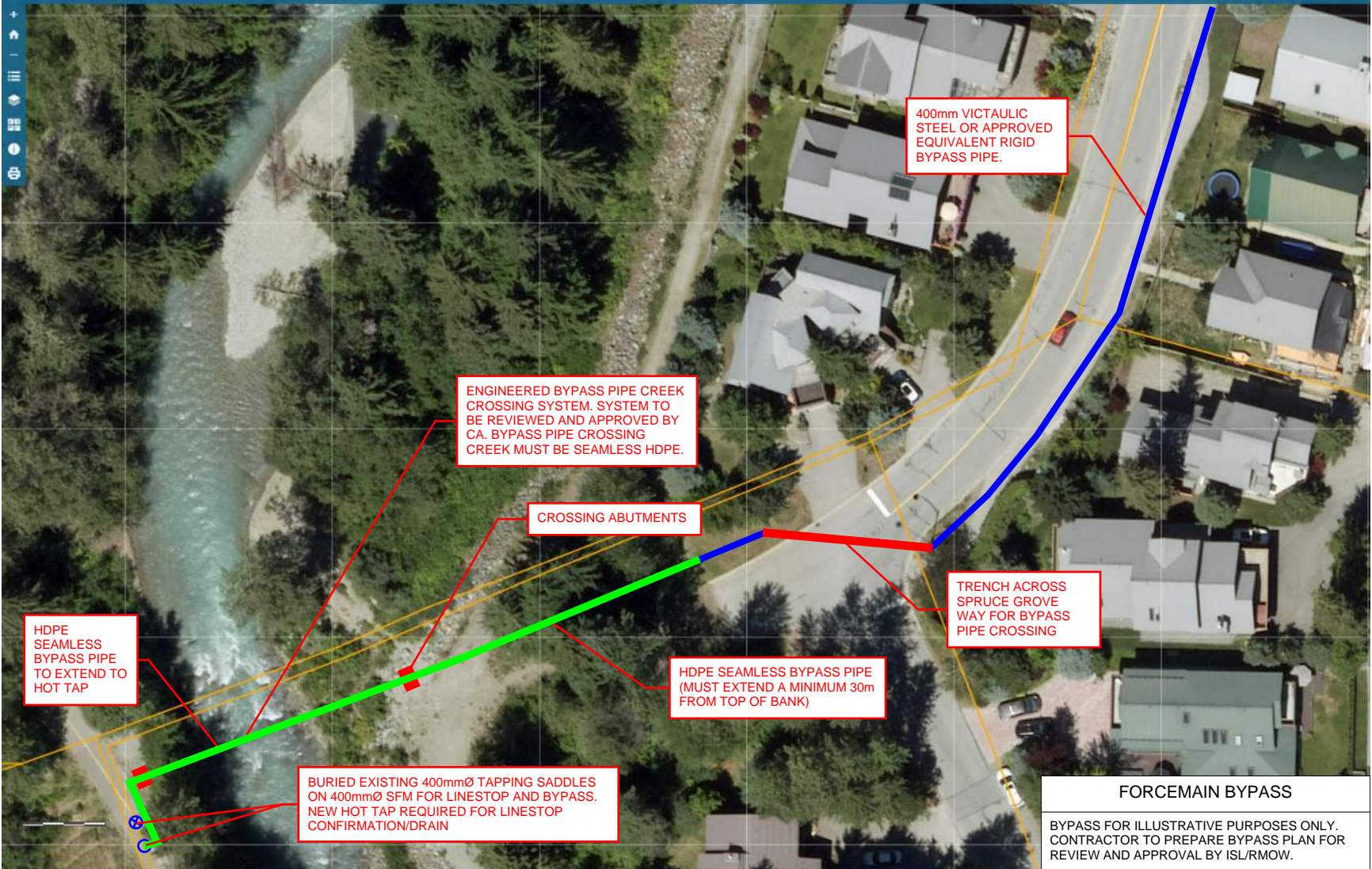


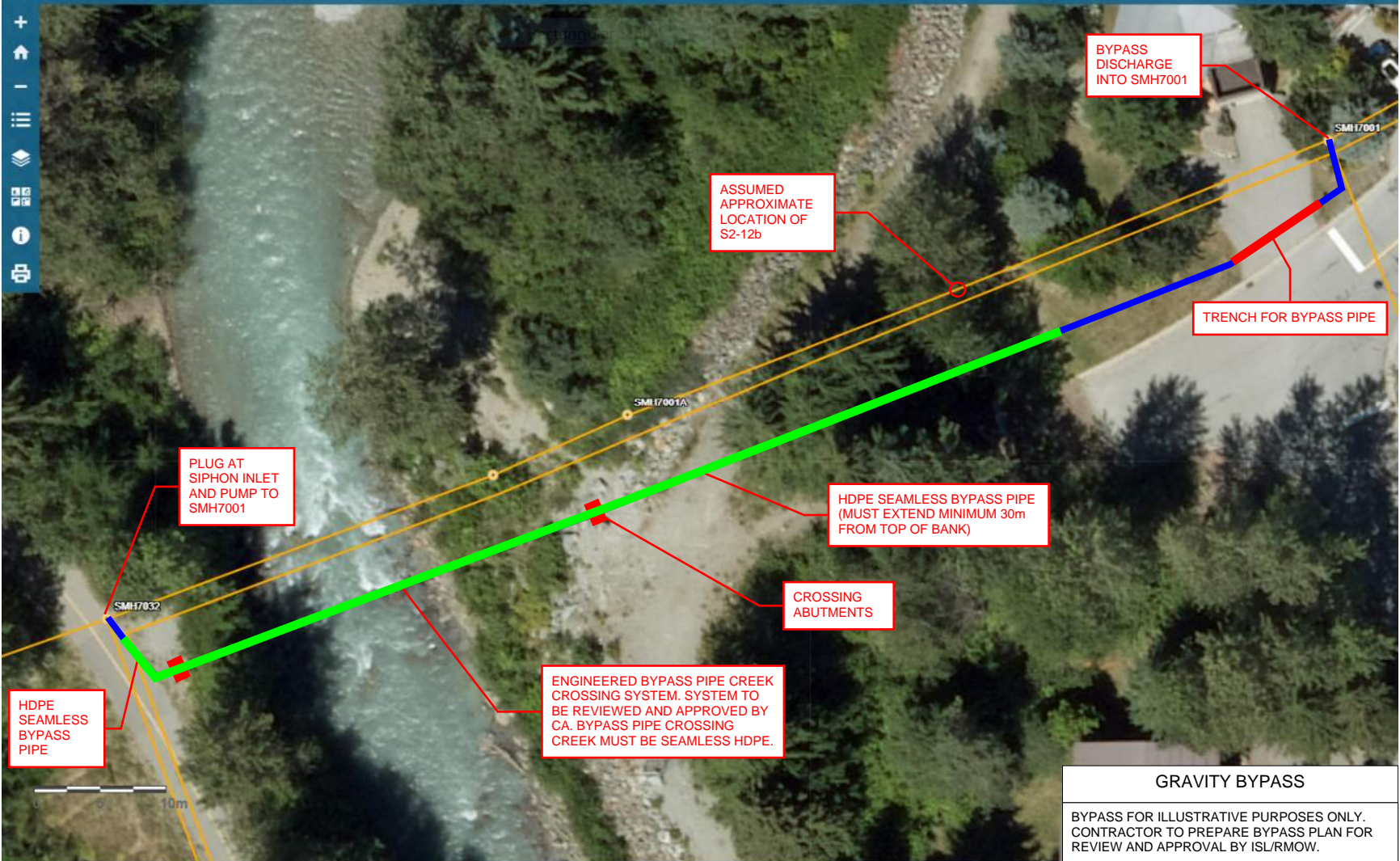


400mm VICTAULIC
STEEL OR APPROVED
EQUIVALENT RIGID
BYPASS PIPE.

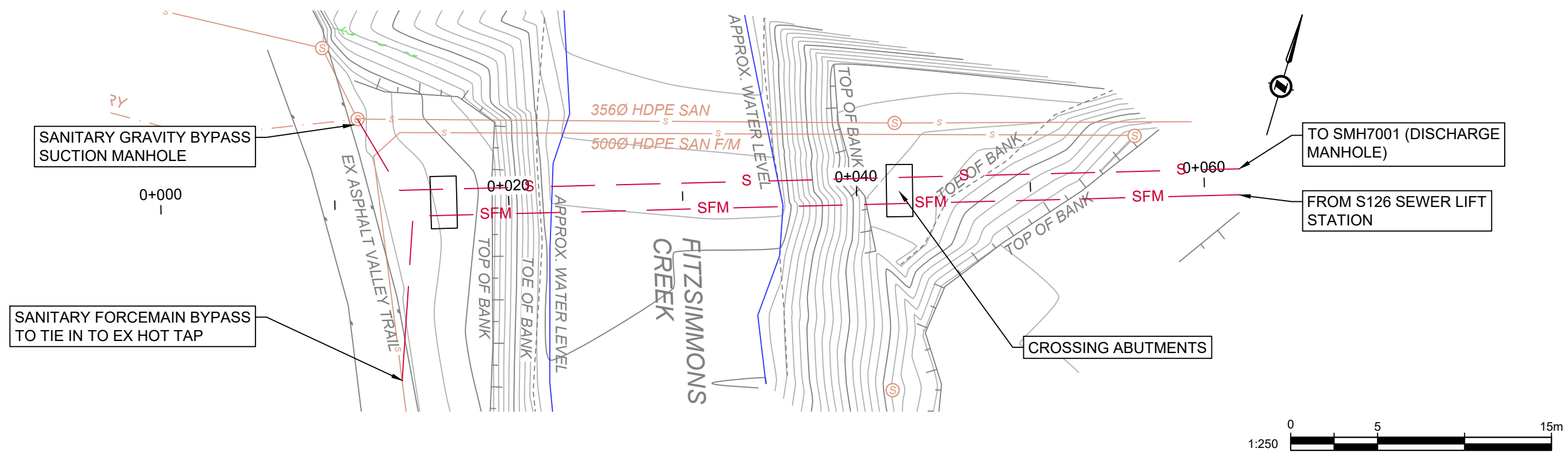
FORCEMAIN BYPASS

BYPASS FOR ILLUSTRATIVE PURPOSES ONLY.
CONTRACTOR TO PREPARE BYPASS PLAN FOR
REVIEW AND APPROVAL BY ISL/RMOW.

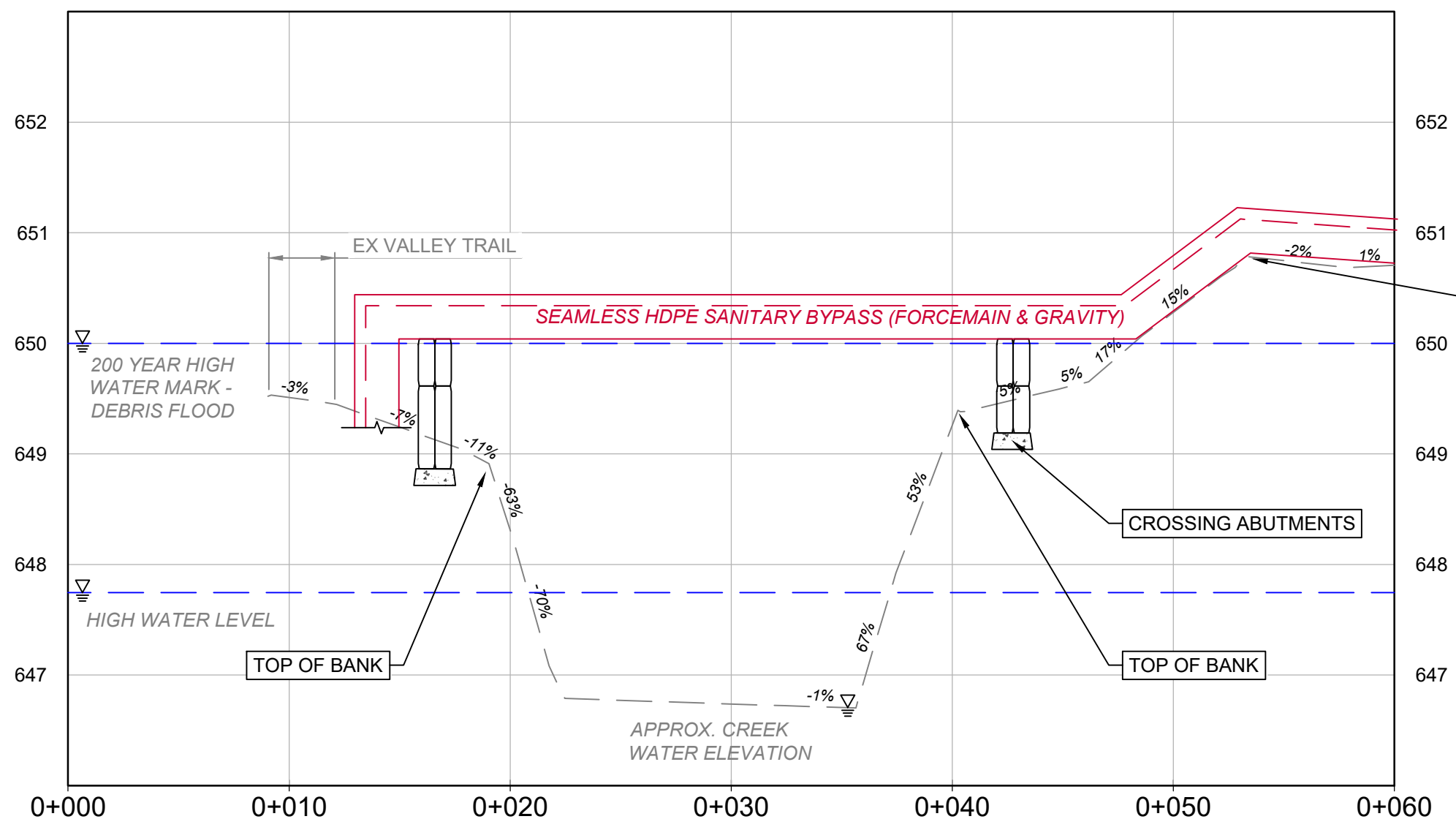




James Taplin / Jan. 22, 24 / G:\Projects\32000\32500\32564_RMW_Fiz_Creek_Mamhole_Replacement\02_CADD\02_Drafting\Sketches\31218_FitzCreek_Xsect\32564_FitzCreek_CrossSection.dwg



BYPASS PIPE CROSSING CREEK TO BE SUPPORTED BETWEEN ABUTMENTS WITH ENGINEERED STRUCTURE



Appendix C
Photo Inventory

Cluster# W4-11		Status:	TO BE REPLACED
Road Name:	Spruce Grove Way & Kirkpatrick Way		
Road Classification:	Collector	Cluster Type:	Hydrant Assembly
Surface:	Road/SW/Landscaping	ISL DWG No.:	32564-2024-WAT-002
Additional Notes:	N/A		



Photo W4-11.1: Cluster W4-11 General Location Looking Northwest on Spruce Grove Way

Cluster# W4-12 & 13		Status:	TO BE REPLACED
Road Name:	Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bends
Surface:	Road	ISL DWG No.:	32564-2024-WAT-002
Additional Notes:	N/A		



Photo W4-14.1: Cluster W4-14 General Location Looking Northeast on Spruce Grove Way

Cluster# W4-14		Status:	TO BE REPLACED
Road Name:	Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Blow-off
Surface:	Road	ISL DWG No.:	32564-2024-WAT-002
Additional Notes:	N/A		



Photo W4-14.1: Cluster W4-14 General Location Looking Southeast on Spruce Grove Way

Cluster# W4-20		Status:	TO BE REMOVED
Road Name:	7308 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Hydrant Assembly
Surface:	Landscaping	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	Existing hydrant to be removed and replaced on LP WM		



Photo W4-20.1: Cluster W4-20 General Location Looking Southeast on Spruce Grove Way

Cluster# W4-21		Status:	TO BE REPLACED
Road Name:	Spruce Grove Way & Spruce Grove Circle		
Road Classification:	Collector	Cluster Type:	Tee
Surface:	Road	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	N/A		



Photo W4-21.1: Cluster W4-21 General Location Looking Northeast Towards 7162 Spruce Grove Circle

Cluster# W4-22 & 23			Status:	TO BE REPLACED
Road Name:	7277/7281 Spruce Grove Way			
Road Classification:	Collector	Cluster Type:	Hydrant Assembly/Bend	
Surface:	Paving Stones/Concrete Walkway/Road	ISL DWG No.:	32564-2024-WAT-001	
Additional Notes:	N/A			



Photo W4-23.1: Cluster W4-23 General Location Looking Northwest Towards 7277/7281 Spruce Grove Way



Photo W4-22.1: Cluster W4-22 General Location Looking Northwest Towards 7277/7281 Spruce Grove Way Approximately 1.2m from edge of curb in road (from GPR)

Cluster# W4-24		Status:	TO BE REPLACED
Road Name:	7271 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Road	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	Approximately 1.4m from edge of curb on road (from GPR)		



Photo W4-24.1: Cluster W4-24 General Location Looking West Towards 7271 Spruce Grove Way

Cluster# W4-25		Status:	TO BE REPLACED
Road Name:	7255 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Hydrant Assembly
Surface:	Landscaping/Road	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	N/A		



Photo W4-25.1: Cluster W4-25 General Location Looking West Towards 7255 Spruce Grove Way

Cluster# W4-26		Status:	TO BE REPLACED
Road Name:	7246 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Tee
Surface:	Road	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	N/A		



Photo W4-26.1: Cluster W4-26 General Location Looking East Towards 7246 Spruce Grove Way

Cluster# W4-27		Status:	TO BE REPLACED
Road Name:	7235 Fitzsimmons Rd		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Road	ISL DWG No.:	32564-2024-WAT-001
Additional Notes:	May be in vegetated area adjacent to driveway		



Photo W4-27.1: Cluster W4-27 General Location Looking West Towards 7235 Fitzsimmons Rd

Cluster# S2-10 & 11		Status:	TO BE REPLACED
Road Name:	N/A		
Road Classification:	N/A	Cluster Type:	Couplings, Bend
Surface:	Gravel/Rip Rap	ISL DWG No.:	32564-2024-SAN-003
Additional Notes:	N/A		



Photo S2-10.1: Clusters S2-10a, S2-10b & S2-11 General Location Looking Towards Fitzsimmons Creek from Dike Berm.

Cluster# S2-12a, S2-12b		Status:	TO BE REPLACED
Road Name:	N/A		
Road Classification:	N/A	Cluster Type:	Couplings
Surface:	Landscaping	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	N/A		



Photo S2-12.1: Cluster S2-12 General Location Looking Towards Fitzsimmons Creek Adjacent to 7245 Spruce Grove Way

Cluster# S2-13		Status:	TO BE REPLACED
Road Name:	7247 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Road/Landscaping	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	Approximate Location from GPR Marked in Pink		



Photo S2-13.1: Cluster S2-13 General Location Looking Towards 7247 Spruce Grove Way

Cluster# S2-14		Status:	TO BE REPLACED
Road Name:	7271/7275 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Landscaping	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	Approximately 1.6m from edge of curb (from GPR)		



Photo S2-14.1: Cluster S2-14 General Location Looking West Towards 7271/7275 Spruce Grove Way

Cluster# S2-15		Status:	TO BE REPLACED
Road Name:	7281/7285 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Paving Stones/Concrete	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	Approximately 1.6m from edge of curb (from GPR)		



Photo S2-15.1: Cluster S2-15 General Location Looking West Towards 7281/7285 Spruce Grove Way

Cluster# S2-16		Status:	TO BE REPLACED
Road Name:	7307 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Asphalt Sidewalk	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	Approximately 0.7m from edge of curb (from GPR)		



Photo S2-16.1: Cluster S2-16 General Location Looking Northwest Towards 7307 Spruce Grove Way

Cluster# S2-17 & 18		Status:	TO BE REPLACED
Road Name:	7311 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend
Surface:	Road	ISL DWG No.:	32564-2024-SAN-001
Additional Notes:	N/A		



Photo S2-17-18.1: Clusters S2-18 and S2-19 General Location Looking Northwest Towards 7311 Spruce Grove Way

Cluster# S2-19		Status:	TO BE REPLACED
Road Name:	7311 Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bend & Valve
Surface:	Landscaping	ISL DWG No.:	32564-2024-SAN-002
Additional Notes:	Plug Valve Nelson Box Located in Landscaped Area		



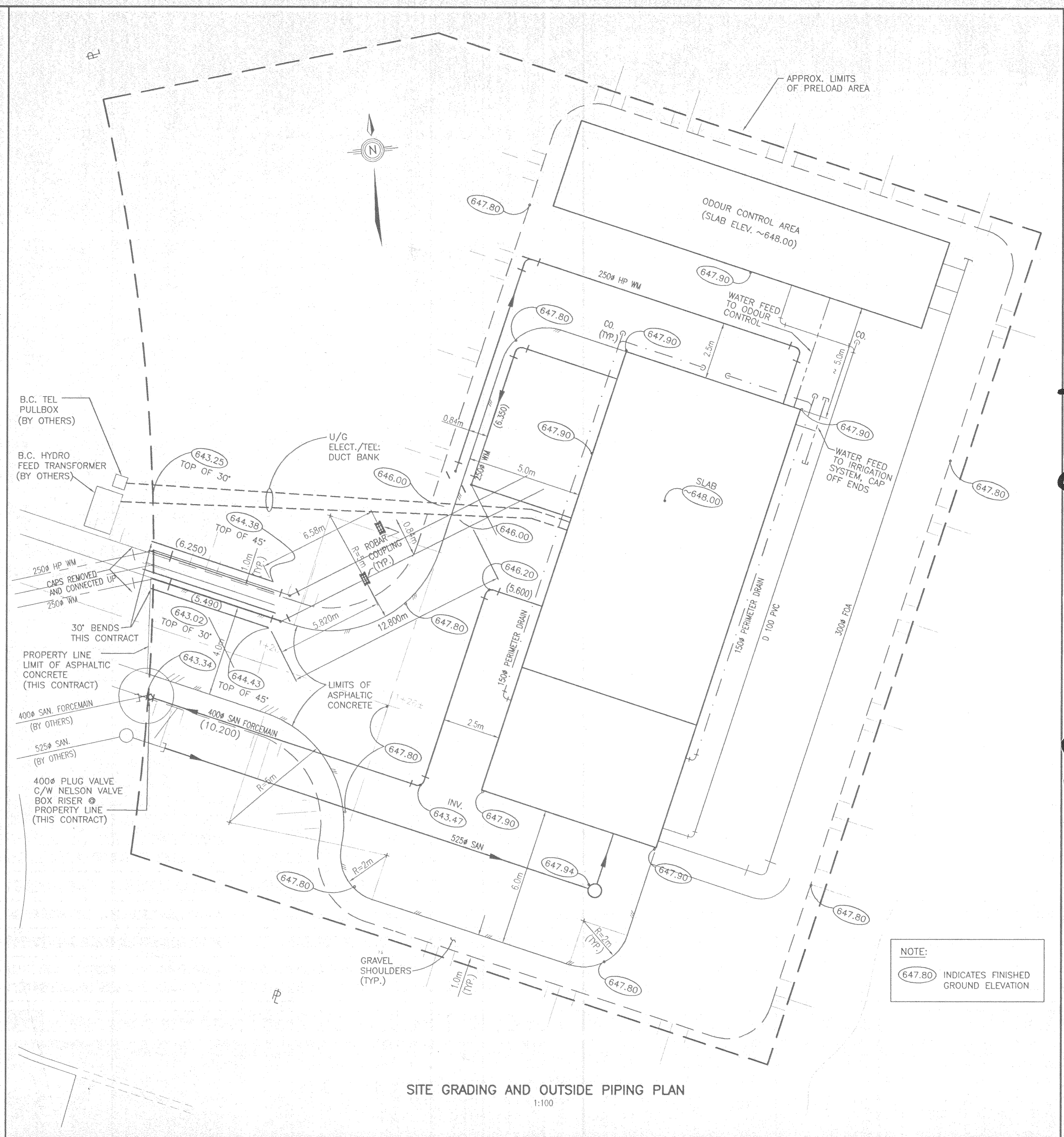
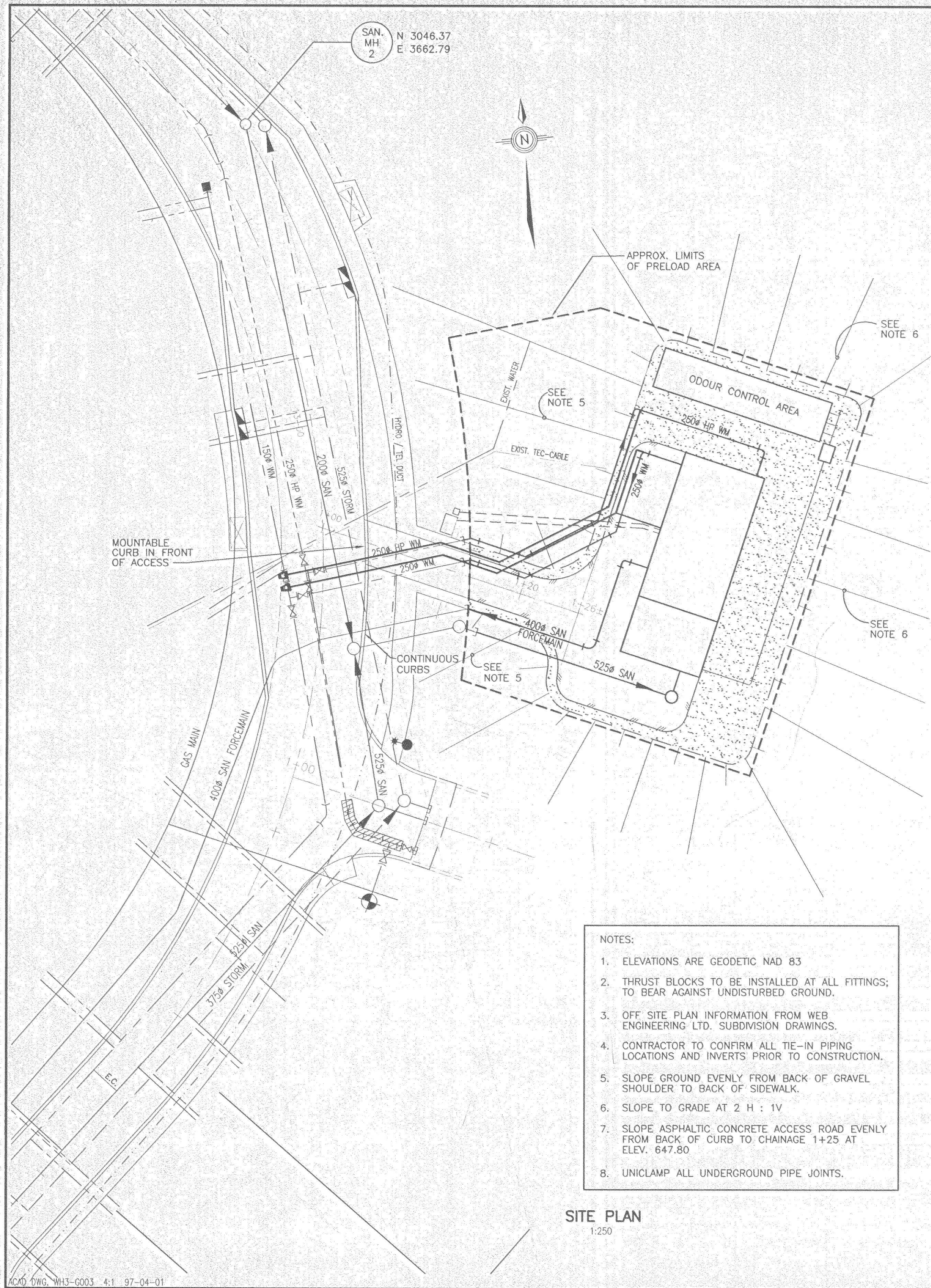
Photo S2-19.1: Cluster S2-19 General Location Looking Towards Spruce Grove Way at S126 Sewer Lift Station

Cluster# S2-20 & 21		Status:	TO BE REPLACED
Road Name:	Spruce Grove Way		
Road Classification:	Collector	Cluster Type:	Bends
Surface:	Landscaping/Asphalt	ISL DWG No.:	32564-2024-SAN-002
Additional Notes:	N/A		



Photo S2-20_21.1: Cluster S2-20 & 21 General Location Looking Towards Spruce Grove Sewer Lift Station

Appendix E
Record Drawings



SPRUCE GROVE PRV & LIFT STATION

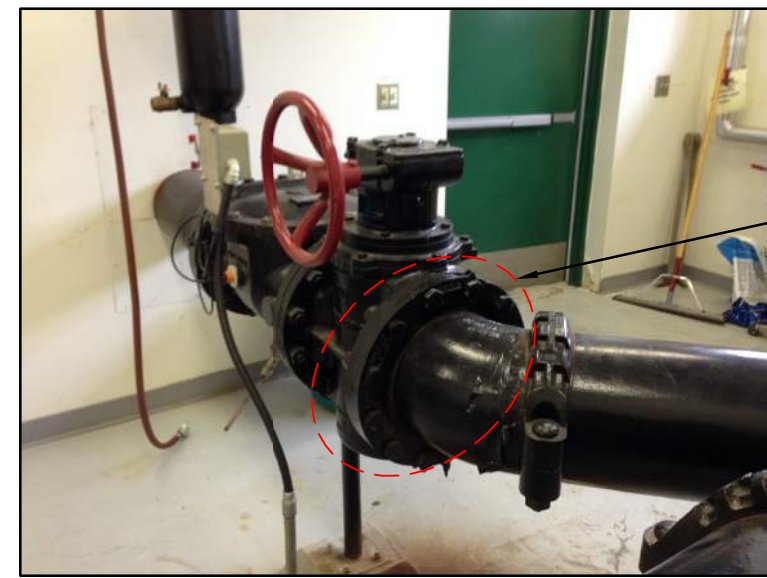
AutoCAD DRAWING	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	DESIGNED	RW	DAYTON & KNIGHT LTD. Consulting Engineers	RESORT MUNICIPALITY OF WHISTLER NORTHEAST SECTOR LIFT STATION & PRV STATION SITE PLAN - SITE GRADING AND OUTSIDE PIPING PLAN	SCALE: AS SHOWN	G3
	REVISIONS												DRAWN	GSM/LW			DRAWING No. 179.5.3	
													CHECKED				SHEET 3 OF 26 ISSUE A	

**BYPASS PORT
UPSIZED TO
200mmØ in 2020.**

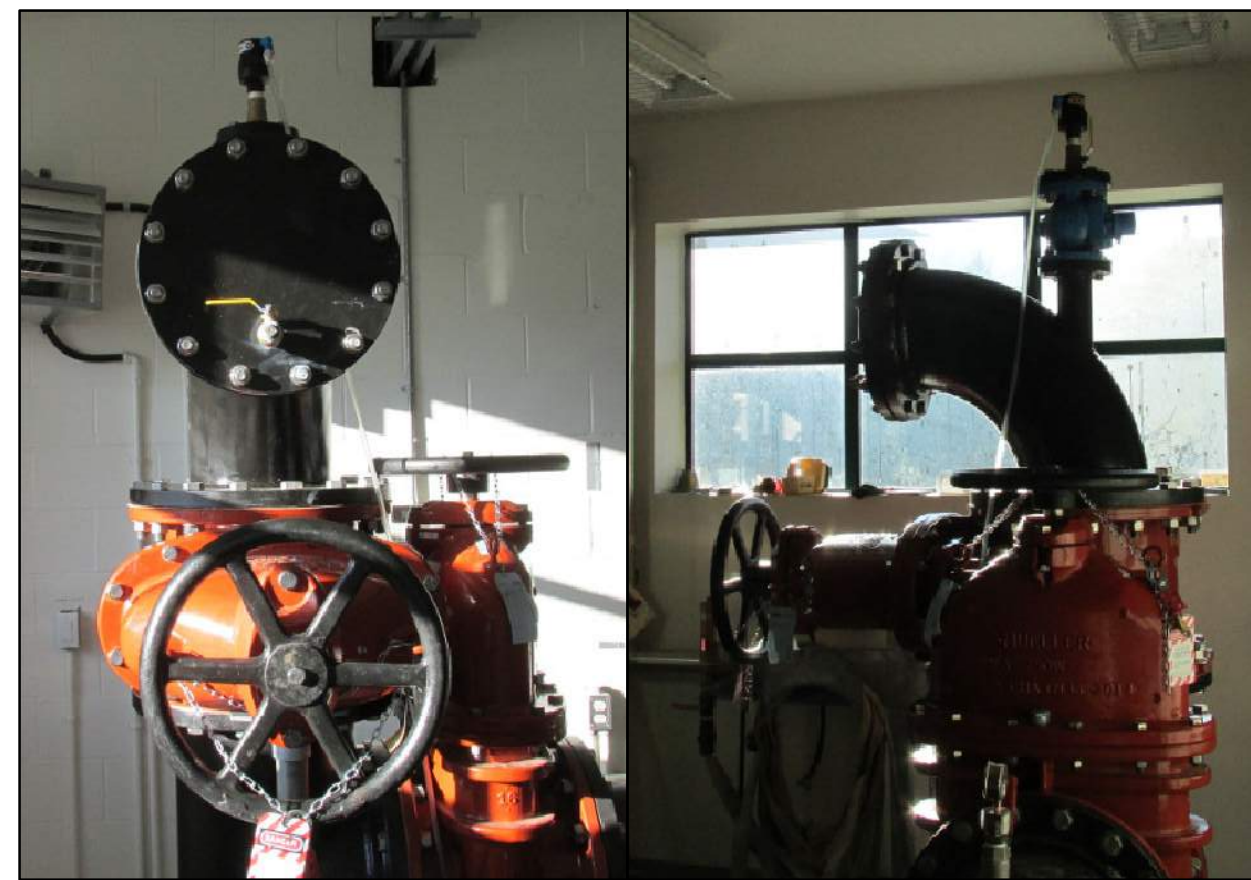


CAMLOCK C/W DUST CAP

BYPASS PORT VALVE ASSEMBLY



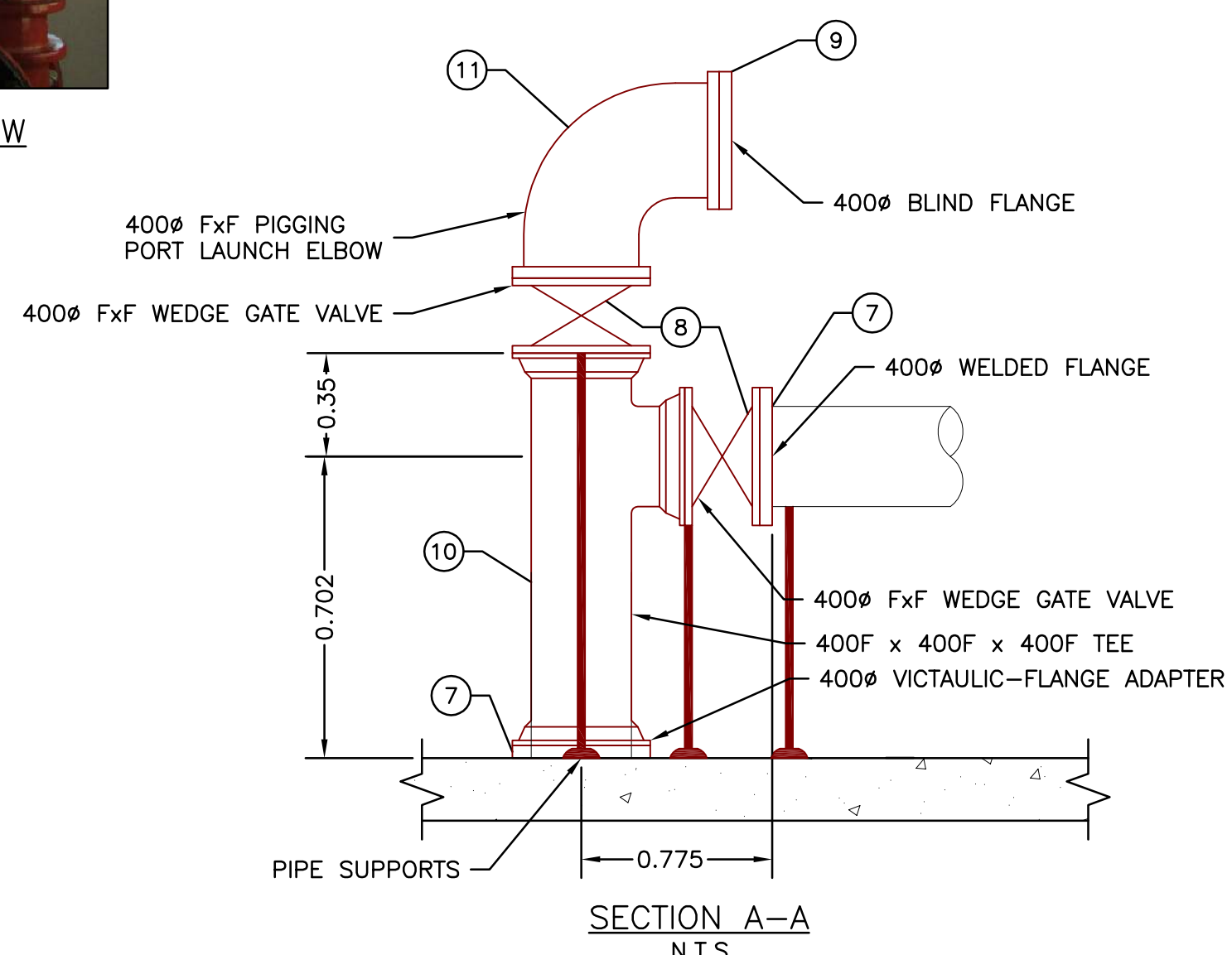
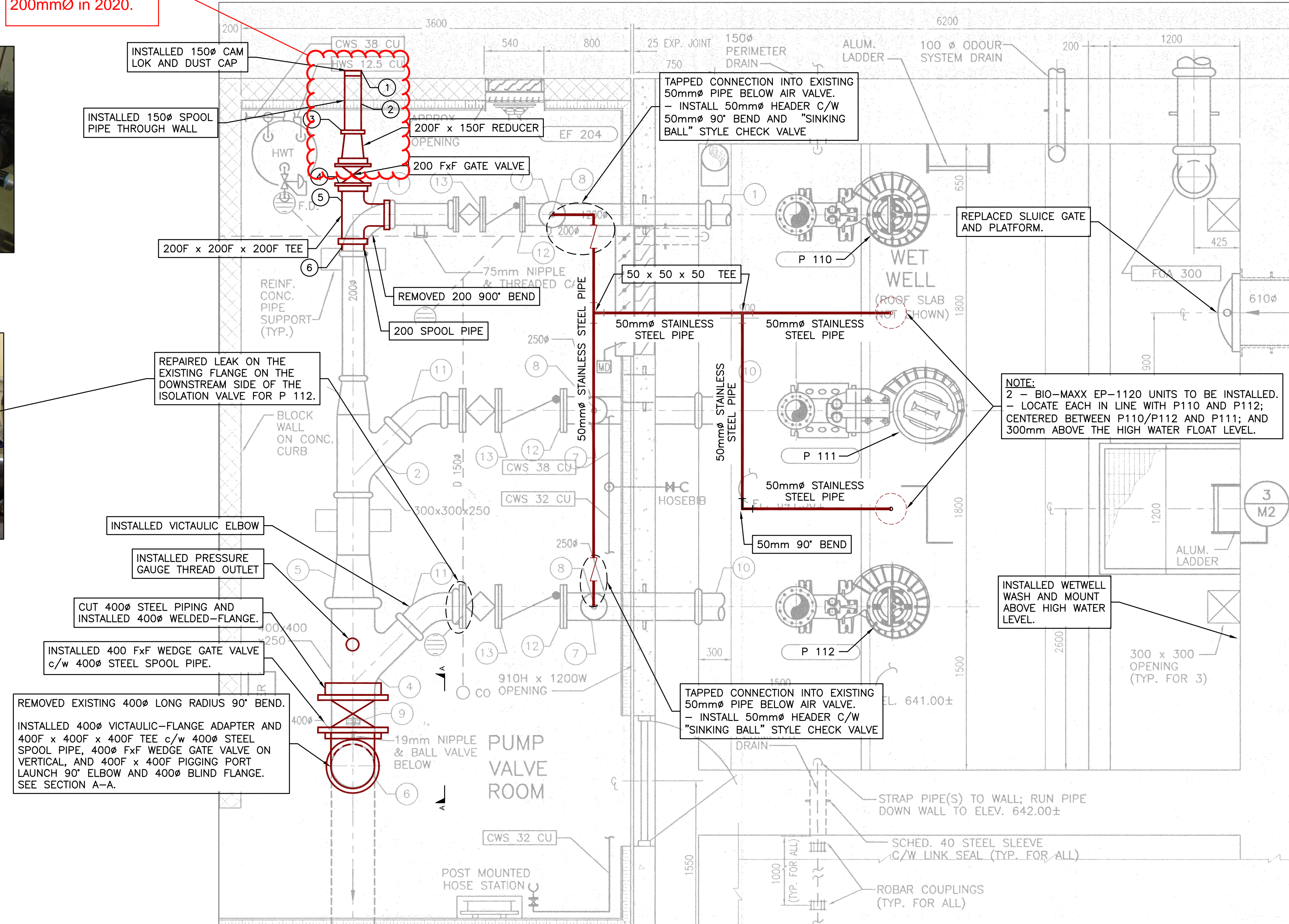
EXISTING FLANGE LOCATION



ISOLATION VALVE AND PIGGING PORT LAUNCH ELBOW



AIR VALVE ON PIGGING PORT LAUNCH ELBOW



BILL OF MATERIALS (BYPASS PORT)		
ITEM #	QUANTITY	DESCRIPTION
1	1	200 CAM LOK DUST CAP
2	1	150 SPOOL PIPE
3	1	200F x 150F REDUCER
4	1	200 FxF GATE VALVE
5	1	200F x 200F x 200F TEE
6	1	200Ø SPOOL PIPE

BILL OF MATERIALS (ISOLATION VALVE)		
ITEM #	QUANTITY	DESCRIPTION
7	2	400Ø WELDED FLANGE
8	2	400Ø FxF WEDGE GATE VALVE
9	1	400Ø BLIND FLANGE
10	1	400F x 400F x 400F TEE
11	1	400F x 400F PIGGING PORT LAUNCH 90° ELBOW C/W AIR VALVE

NOTE: BLIND FLANGES (ITEM #9) TO BE FURNISHED WITH 19mm THREADED TAPPING TO ACCOMMODATE NIPPLE AND VALVE.

No.	DATE	REVISION	CHK
7	2015.09.04	RECORD DRAWING	JP JSK
6	2015.04.10	ISSUED FOR CONSTRUCTION	JP JSK
5	2015.03.31	ISSUED FOR TENDER - ADDENDUM 2	KJG JSK
4	2015.03.25	ISSUED FOR TENDER - ADDENDUM 1	KJG JSK
3	2015.03.18	ISSUED FOR TENDER	KJG JSK

LEGAL DESCRIPTION:
JP JSK
BENCHMARK & CONTROL DATA:
KJG JSK
KJG JSK
DR CHK

PARAGON ENGINEERING LTD.
104 - 1515 BROADWAY STREET, PORT COQUILAM, BC, V3C 6M2
TELEPHONE: (604) 944-0820 FAX: (604) 944-0815

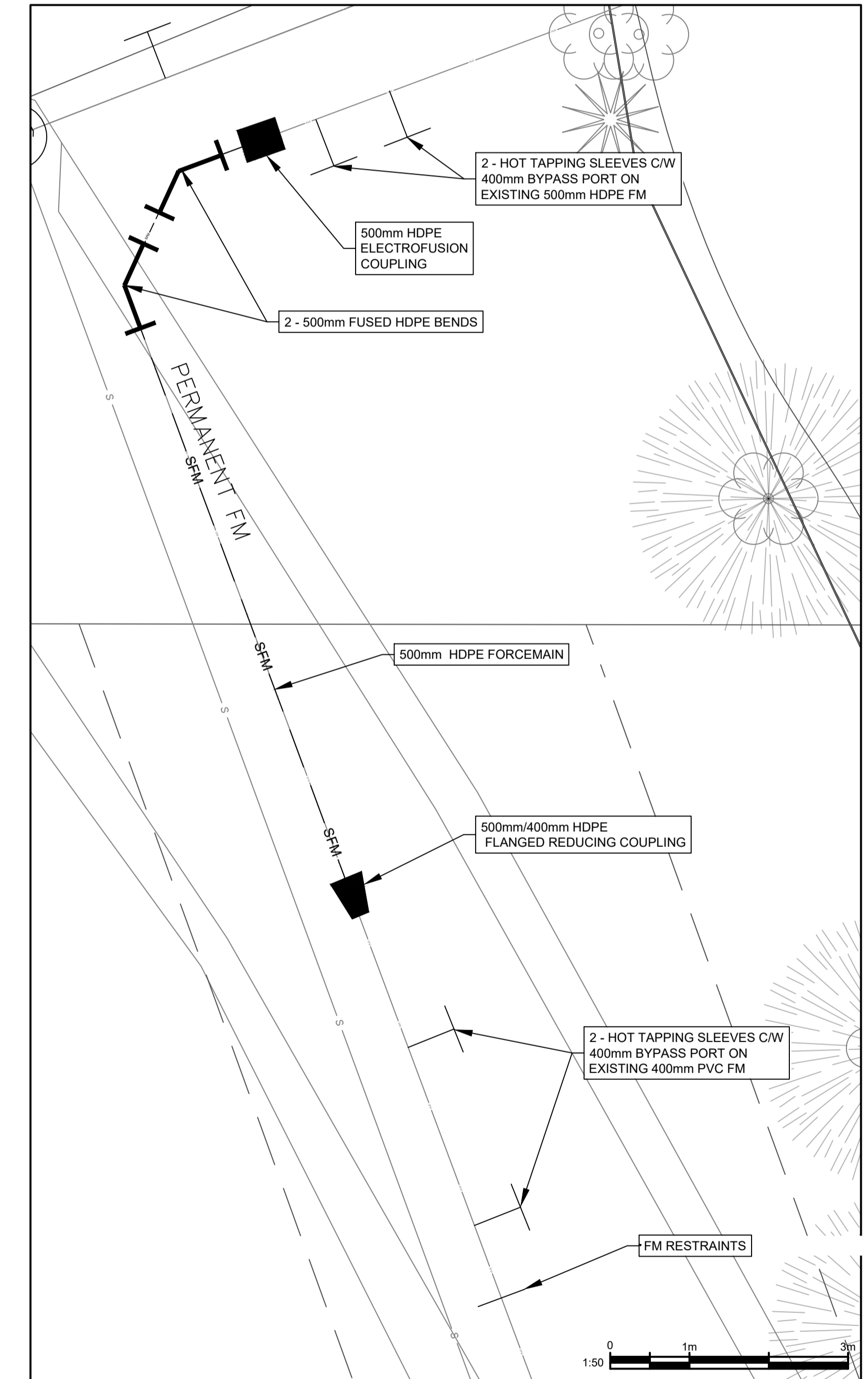
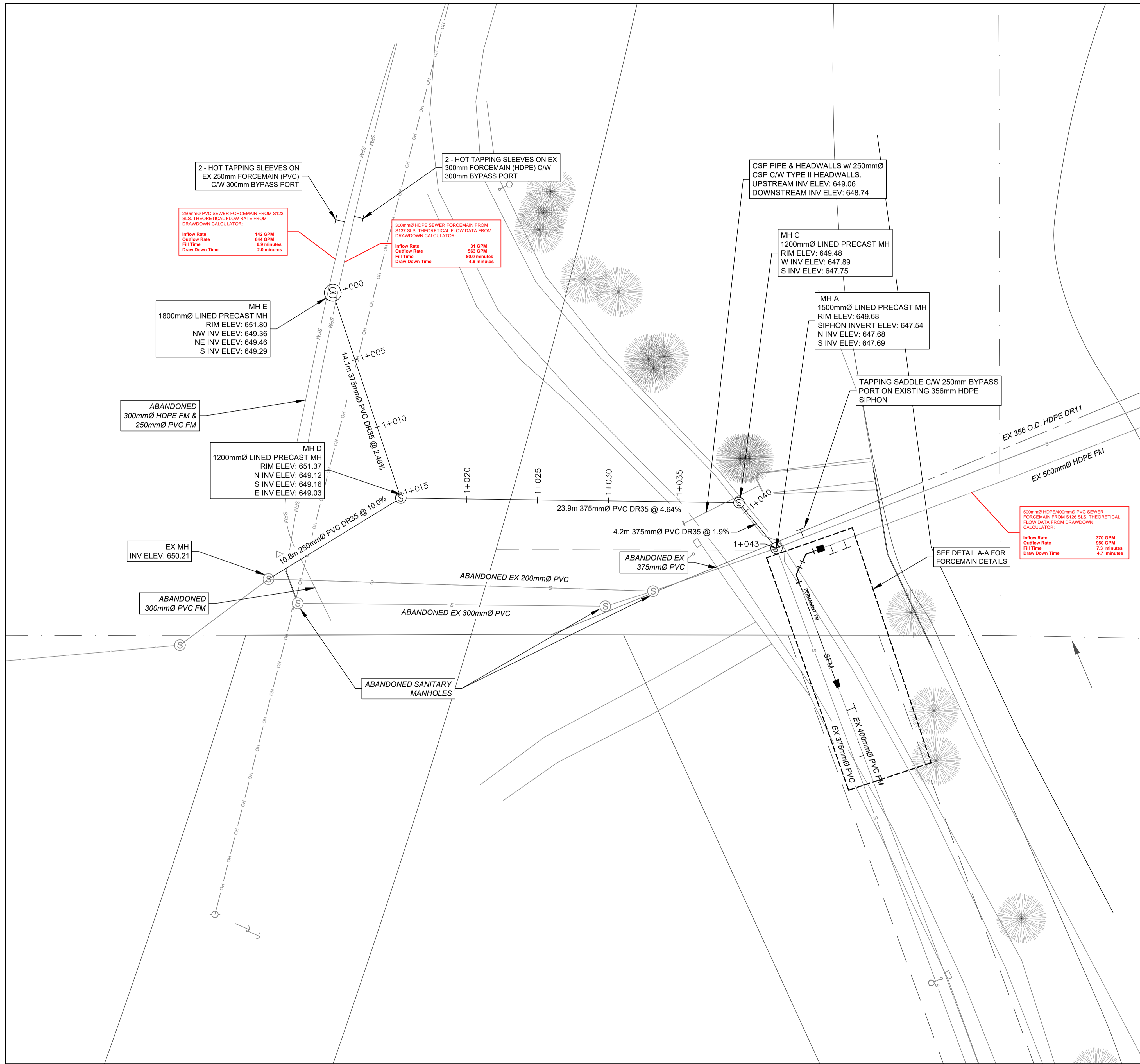
DESIGNED: JSK	SEAL
DRAWN: KJG/JP	
CHECKED: JSK	
APPROVED: -	
SCALE: HORZ. 1:25	
VERT. -	

RESORT MUNICIPALITY OF WHISTLER
SANITARY PUMP STATION S126 NORTH EAST SECTOR

STAGE 2: BYPASS PORT INSTALLATION

PARAGON JOB No. 2015-10	DATE OCTOBER 23, 2014
SHEET 3 of 3	
DWG No. 1510-03	REVISION 7

F:\2015\2015-10 RMOW Sanitary Pump Station S126 (LAD 1510) (MOS) 1510 RMOW Sanitary Pump Stn S126.dwg/1450-03 Jonathan



DETAIL A-A: FORCEMAIN

File: G:\Projects\32564\3256400\3256400_Drafting\2020-11-30_P_Base_32564_Redisgn.dwg | PLOT DATE: 2022/02/17

REV NO	REVISIONS	DATE	DRAWN	APPRD
1	ISSUED FOR TENDER	2021/02/04	RV	GS
2	ISSUED FOR CONSTRUCTION	2021/07/23	RV	GS
3	REISSUED FOR CONSTRUCTION	2021/08/03	RV	GS
4	REISSUED FOR CONSTRUCTION	2021/10/13	RV	GS
5	RECORD DRAWINGS	2022/02/10	RV	GS

SEWER MANHOLE AND MAIN UPGRADES

PLAN VIEW



RECORD DRAWINGS DESIGN NO.

SCALE	1:150	DATE	FEB 2022	DWG. NO.
DRAWN BY	RV	DESIGN BY	RV	3
CHECKED BY	GW	APPROVED BY	GS	OF
				5

32564

DESTROY ALL PRINTS BEARING PREVIOUS NO.