

City of Coquitlam

Contract Documents 85245

2024 Sanitary and Storm Open Cut Point Repairs



Table of Contents

Contract No. 85245

2024 Sanitary and Storm Open Cut Point Repairs

Project Construction Documents

Table of Contents

The complete **Project Construction Documents** consist of the following parts:

1.	Standard Documents – supplied	Page
	Table of Contents	TC 1 to TC 2
	Invitation to Tender	IN 1 to IN 3
	Instruction to Tenderers	
	Table of Contents	IT 1
	Instructions to Tenderers	IT 2 to IT 13
	Form of Tender, including	
	Form of Tender Summary	FT 1
	Form of Tender	
	 Appendix 1 – Schedule of Quantities and Unit Prices 	FT 6
	 Appendix 2 – Preliminary Construction Schedule 	FT 7
	 Appendix 3 – Experience of Superintendent 	FT 8
	 Appendix 4 – Comparable Work Experience 	FT 9
	 Appendix 5 – Subcontractors 	FT 10
	 Appendix 6 – Bid Bond 	FT 11
	 Appendix 7 – Certificate of Compliance for 	
	Contract Insurance	FT 12
	Agreement between Owner and Contractor	AGT 1 to AGT 4
	Schedule 1 – Schedule of Contract Documents	AGT 5
	Schedule 2 – List of Drawings	AGT 6
	Supplementary General Conditions – Table of Contents	SGC 1 to SGC 2
	Supplementary General Conditions, including	
	Appendices:	
	Appendix I Performance Bond	
	 Appendix II labour and Material Payment Bond 	
	 Appendix III Certificate of Insurance 	
	 Appendix IV Prime Contractor Designation 	SGC 24

Table of Contents

Supplementary Contract Specifications	SS 1 to SS 28
Appendix A – Traffic Management Detail Specifications	TMP 1 to TMP 8
Appendix B – Location Maps	LM 1 to LM 29
Appendix C – As-Built Drawings	ASB 1 to ASB 31
Appendix D – CCTV Inspection Video File Links	VFL 1
Appendix E - CCTV Inspection Reports	CCTV 1 to CCTV 43

2. Standard Documents - not supplied

- i) (available in the "MMCD General Conditions, Specifications and Standard Detail Drawings")
 - Instructions to Tenderers
 - General Conditions

Schedule 17.5.3 – Letter Agreement with Referee

Flow Chart – Changes and Extra Work

Flow Chart - Dispute Resolution

- Specifications
- Standard Detail Drawings
- ii) City of Coquitlam Supplementary Specifications for Contract Documents

Invitation to Tender



INVITATION TO TENDER

DATE OF ISSUE: September 17, 2024

We acknowledge with gratitude and respect that the name Coquitlam was derived from the həńqəmińəm word kʷikʷəλ̄əm (kwee-kwuh-tlum) meaning "Red Fish Up the River". The City is honoured to be located on the kʷikʷəλ̄əm (Kwikwetlem) traditional and ancestral lands, including those parts that were historically shared with the sqəciýaʔ-l təməxʷ (Katzie), and other Coast Salish Peoples.

Tender No. 85245

2024 Sanitary and Storm Open Cut Point Repairs

The City of Coquitlam invites tenders for **Contract 85245 – 2024 Sanitary and Storm Open Cut Point Repairs,** generally consisting of the following, but not limited to:

- 18 sanitary main open cut point repairs at various locations;
- 22 storm main open cut point repairs at various locations;
- Surface restoration; and,
- Other miscellaneous and incidental works as further described in the Contract Documents.

Tender Documents and Drawings are available for downloading from the City of Coquitlam website: www.coquitlam.ca/BidOpportunities

Printing of Tender documents and drawings is the sole responsibility of the Tenderers.

Tenders submitted must be accompanied by a copy of the original specified 10% Bid Bond and will be received:

On or Before 2:00 pm local time <u>Monday, October 7, 2024</u> ("Closing Date and Time")

Addenda

Tenderers are required to check the City's website for any updated information, issued before the Closing Date at: www.coquitlam.ca/BidOpportunities. Where in its sole discretion it considers it to be necessary or desirable, the City may issue Addenda to amend any portion of the Contract Documents.

Any changes to the Tender documentation will be issued by means of written Addenda and posted on the City's website and will form part of the Tender. No amendment of any kind to the Tender is effective unless it is posted in a formal written Addendum on the City website. Upon submitting a Tender, Tenderers will be deemed to have received notice of all Addenda that are posted on the City's website and deemed to have considered the information for inclusion in the Tender submitted.

The City does not retain a bidder's list or bidder's registry. Tenderers are encouraged to register as plan takers and may view the Tender Documents and Drawings by contacting the Vancouver Regional Construction Association (VRCA), website: www.my.vrca.ca, ph: 604-294-3766, or email at vrca@vrca.ca, quoting the Coquitlam Tender Reference Number.

Should there be any discrepancy in the documentation provided, the City's original file copy shall prevail.

Tenders shall remain open for acceptance for 60 days following the submission Closing Date.

The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. The City also reserves the right to cancel any request for Tender at any time without recourse by the Tenderer.

The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.

The City will not be responsible for any costs incurred by the Tenderer in preparing the Tender.

Procurement of goods and services is conducted in accordance with Chapter 5 of the Canadian Free Trade Agreement (CFTA) and the New West Partnership Trade Agreement (NWPTA).

M. Pain Procurement Manager

Instructions to Tenderers

Tender 85245

2024 Sanitary and Storm Open Cut Point Repairs

INSTRUCTIONS TO TENDERERS

TABLE	E OF CONTENTS	Page
1	Introduction	IT 2
2	Tender Documents	IT 2
3	Submission of Tenders	IT 3
4	Additional Instructions to Tenderers	IT 4
5	Tender Requirements	IT 6
6	Qualifications, Modifications, Alternative Tender	IT 7
7	Approved Equals	IT 7
8	Inspection of the Place of the Work	IT 7
9	Interpretation of Contract Documents	IT 8
10	Prices	IT 8
11	Taxes	IT 9
12	Amendment of Tenders	IT 9
13	Duration of Tenders	IT 10
14	Qualifications of Tenders	IT 10
15	Award	IT 10
16	Subcontractors	IT 12
17	Optional Work	IT 12

INSTRUCTIONS TO TENDERERS

(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.)

The City of Coquitlam

Contract: 2024 Sanitary and Storm Open Cut Point Repairs

Reference No. **85245**

1.0 Introduction

- 1.1 These Instructions apply to and govern the preparation of tenders for this *Contract*. The *Contract* is generally for the following work:
 - 18 sanitary main open cut point repairs at various locations;
 - 22 storm main open cut point repairs at various locations;
 - Surface restoration; and,
 - Other miscellaneous and incidental works as further described in the Contract Documents.
- 1.2 All inquiries regarding this Tender are to be submitted in writing referencing the **Tender Name and Number** sent to:

E-mail bid@coquitlam.ca

The deadline for inquiries is:

2:00 PM local time, Wednesday, October 2, 2024.

INQUIRIES RECEIVED AFTER THIS DATE AND TIME MAY NOT RECEIVE A RESPONSE.

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 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 judgments 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

3.2

Tenders must be submitted on the Tender Form provided, accompanied by a copy of the original 10% Bid Bond quoting the Tender Name and Number, and be uploaded to the City's file transfer website.

Tenders must be received on or before:

Tender Closing Time: 2:00 p.m. local time
Tender Closing Date: Monday, October 7, 2024

For the purpose of the Tender submission, digital copies of original documents and signatures sent electronically are accepted. Original documents are required upon request by the City.

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1) PDF file and uploaded electronically through QFile, the City's file transfer service accessed at website:

http://gfile.coguitlam.ca/bid

- 1. In the "Subject Field" enter: Tender Number and Name
- Add consolidated Tender file in PDF format and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to email: bid@coquitlam.ca)

Tenderers are responsible to allow for ample time to complete the submission process. For assistance, phone 604-927-3037.

3.3 Tenders submitted shall be deemed to be received when displayed as a new email in the in-box of the above email address. The City will not be responsible for any delay or for any Tenders not received for any reason, including technological delays or issues by either party's network or email program, and the City will not be liable for any damages associated with Tenders not received.

3.4 The City reserves the right to accept late Tenders to allow for technological delays. The City also reserves the right to accept Tenders by email: bid@coquitlam.ca.

BIDS RECEIVED IN-PERSON, BY COURIER, OR BY FAX WILL NOT BE ACCEPTED.

- 3.5 Tenders will not be opened in public. The unevaluated results will be forwarded to participants by email.
- 3.6 Tender submissions are subject to the Freedom of Information and Protection of Privacy Act and contents may be disclosed if required to do so, pursuant to the Act.

4.0 Additional Instructions to Tenderers

Additional Instructions to Tenderers

CCTV video links for each pipe requiring repair have been provided via. the City's QTP site. Videos will be made available on the City's QTP site for 30 days or can provided directly to the Contractor upon request. Please refer to Appendix D.

Obtaining Documents

- 4.1 The following documents which are referred to and form part of the Contract Document package may be obtained as follows:
 - Copies of the Master Municipal Construction Documents Volume II (2009), General Conditions, Specifications and Standard Detail Drawings are available separately from:

Support Services Unlimited Suite 102 211 Columbia Street Vancouver, B.C. V6A 2R5 Tel: 604-681-0295

Fax: 604-305-0424

MMCD

4.2

4.3

 Copies of the City of Coquitlam Supplementary Specifications and Detailed Drawings to the MMCD 2009 Edition are available for viewing and downloading off the City of Coquitlam website:
 Supplementary Specifications and Detailed Drawings to

Test Excavations

Prior to the excavation of test holes on road allowances or privately owned property the Tenderer shall obtain permission from the Municipality or Owner of the property and comply with their requirements for restoration of disturbed surfaces and utilities. Failure to comply with Municipal by-laws restricting this practice may result in prosecution of the offending party.

Business License

The successful Tenderer shall provide evidence of a City of Coquitlam Business License or Tri-Cities Inter-Municipal Business License prior to commencement of work or supply of materials. For more information, contact Business License Division Ph: 604-

		927-3085 or apply online at website: <u>City of Coquitlam Business</u> <u>License</u>
No Claim	4.4	Except as expressly and specifically permitted in these Instructions to Tenderers, no Tenderer shall have any claim for any compensation of any kind whatsoever, as a result of participating in this Tender, including accepting a non-compliant bid and by submitting a Tender, each Tenderer shall be deemed to have agreed that it has no claim.
No Cost	4.5	The City will not under any circumstances be responsible for any costs incurred by the Tenderer in preparing the Tender.
Right to Accept or Reject any Tender	4.6	The City reserves the right to accept or reject any or all Tenders and the lowest or any Tender may not necessarily be accepted. In its sole discretion, the City may reject or retain for its consideration, tenders which are nonconforming because they do not contain the content or form required by the instructions to tenderers or for failure to comply with the process for submission set out in these instructions to tenderers.
		The City specifically reserves the right to reject all Tenders if none is considered to be satisfactory and, in that event, at its option, to call for additional Tenders.
Negotiation	4.7	The City, prior to award of any Tender, may negotiate with the Tenderer presenting the lowest price compliant Tender, for changes in the Work, materials, specifications or conditions without having any duty or obligation to advise any other Tenderers or to allow them to modify their Tenders, and the City will have no liability to any Tenderer as a result of such negotiations or modifications.
Cancellation of Tender	4.8	The City reserves the right to cancel any request for Tender at any time without recourse by the Tenderer. The City has the right to not award this work for any reason including choosing to complete the work with the City's own forces.
Conflict of Interest	4.9	Tenderers shall disclose any actual or potential conflicts of interest and existing business relationships it may have with the City, their elected or appointed officials or employees.
Collusion	4.10	Tenderers will not discuss or communicate with one another in regards to the preparation of their Tenders. Each Tenderer will ensure that its participation in the Tender process and that of its team members is conducted without collusion or fraud. Failure to comply with this requirement may lead to disqualification without further notice or warning.
Instruction to		Delete Instructions to Tenderers – Part II Contained in the Edition

of the Publication "Master Municipal Construction Documents

2009" and replace with the following:

Tenderers -

Part II

5.0 Tender Requirements

- 5.1 A tender should be on the Form of Tender as provided and be signed by the authorized signatory(s) as follows:
 - 5.1.1 if the tenderer is a partnership or joint venture then the name of the partnership or joint venturer should be included, and each partner or joint venturer should sign personally; if a partner of joint venture is a corporation then such corporation should sign as indicated in paragraph 5.1.3 below: and
 - 5.1.2 if the tenderer is a corporation then the full name of the corporation should be included, together with the names and signatures of authorized signatories.
 - 5.1.3 For the purpose of the Tender submission, digital copies of original documents and electronic signatures are accepted. Original documents are required upon request by the City.
- 5.2 A tender must be accompanied by tender security ("Bid Security") in the form of:
 - 5.2.1 a copy (digital or Electronic copy is acceptable) of the original bid bond in an amount equal to 10% of the Tender Price, issued by a surety licensed to carry on the business of suretyship in British Columbia in a form reasonably satisfactory to the *Owner*;
- 5.3 Tenderer should be competent and capable of performing the various items of work. Tenderer shall complete the following statement sheets appended to the Form of Tender:
 - 5.3.1 Appendix 1 the Schedule of Quantities and Prices;
 - 5.3.2 Appendix 2 a "Preliminary Construction Schedule", generally in the form attached as Appendix 2 to the Form of Tender, and showing Substantial Performance by the date or within the duration, shown in paragraph 2.2 of the Form of Tender.
 - 5.3.3 Appendix 3 name and brief description of the previous experience of the *Superintendent* the tenderer will use for the *Work*;
 - 5.3.4 Appendix 4 a list of previous comparable work, including a brief description of that work, approximate contract value, and references (with phone numbers);

			5.3.5	Appendix 5 – a complete list of all subcontractors, if any, that the tenderer will use for the <i>Work</i> including full names.; and
			5.3.6	Appendix 7 – is provided for information only, to indicate the Contract Insurance is to be submitted by the successful Tenderer upon Notice of Award.
		5.4	written <i>Notice</i> items listed in Labour and M	l tenderer will, within 15 <i>Days</i> of receipt of the of <i>Award</i> , be required to deliver to the <i>Owner</i> the FT 5.1.1, including a Performance Bond and a aterial Payment Bond as described in FT 5.1.1(a), he provisions of FT 6.1 will apply.
6.0	Qualifications, Modifications, Alternative Tenders	6.1		n contain qualifications, or omissions, so as to make hich other tenders difficult, may be rejected by the
		6.2	tender ("Altern designs or equ case may be, <u>k</u> not in substitu	y, at the tenderer's election, submit an alternative ative Tender") which varies the materials, products, uipment by the Owner as Approved Equals as the out an Alternative Tender must be in addition to, and ation for a tender which conforms to the of the Contract Documents.
		6.3	Alternative Ten tender, submi Instructions to Owners in the	native Tender that the Owner may accept is an der submitted by that tenderer whose conforming tted as required by paragraph 6.2 of these Tenderers, would have been accepted by the preference to other conforming tenders, if no ders had been invited.
7.0	Approved Equals	7.1	the <i>Owner</i> to a (" <i>Approved Equ</i>	nder Closing Time and Date, a tenderer may request approve materials, products, or equipment and ") to be included in a tender in substitution for d in the Contract Documents.
		7.2	supported by	or an <i>Approved Equal</i> must be in writing, and appropriate supporting information, data, and documentation.
		7.3		ecides in its discretion to accept an <i>Approved Equal</i> , er will issue an addendum to all tenderers.
		7.4	The <i>Owner</i> is n an <i>Approved Ed</i>	not obligated to review or accept an application for qual.
8.0	Inspection of the <i>Place of the</i> <i>Work</i>	8.1	responsible to tender. A tend make allowand <i>Work</i> that mig	either personally or through a representative, are examine the <i>Place of the Work</i> before submitting a derer has full responsibility to be familiar with and ce in the tender for all conditions at the <i>Place of the</i> that affect the tender, including any information surface soil conditions made available by the

Owner, the location of the Work, local conditions, topographical soil conditions, weather and access. Unless otherwise specified in the Contract Documents, a tenderer is not required to do subsurface investigations. By submitting a tender, a tenderer represents that the tenderer has examined the Place of the Work, or specifically elected not to. No additional payments or time extensions shall be claimable or due because of difficulties relating to conditions at the Place of the Work which were reasonably foreseeable by a contractor qualified to undertake the Work.

8.2 Tenderers are referred to GC 11.2.1 regarding **Concealed or Unknown Conditions.**

9.0 Interpretation of Contract Documents

- 9.1 If a tenderer is in doubt as to the correct meaning of any provision of the *Contract Documents*, the tenderer may request clarification as instructed in paragraph 1.2 of the Instructions to Tenderers.
- 9.2 If a tenderer discovers any contradictions or inconsistencies in the *Contract Documents* or its provisions, or any discrepancies between a provision of the *Contract Documents* and conditions at the *Place of the Work as* observed in an examination under paragraph 8 of the person named in paragraph 1.2 of the Instructions to Tenderers.
- 9.3 If the *Owner* considers it necessary, the *Owner* may issue written addenda to provide clarification (s) of the *Contract Documents*.
- 9.4 <u>No oral interpretation or representations from the *Owner* or any representative of the *Owner* will affect, alter, or amend any provision of the *Contract Documents*.</u>

10.0 Prices

- 10.1 The Tendered Price will represent the entire cost excluding *GST* to the *Owner* of the complete *Work* based on the estimated quantities in the *Schedule of Quantities and Prices* of the Form of Tender. Notwithstanding the generalities of the above, tenderers shall include in the tendered prices (including unit prices, lump sum prices, or other forms of pricing) sufficient amounts to cover:
 - 10.1.1 the costs of all labour, equipment and material included in or required for the *Work*, including all items which, whole not specifically listed in the *Schedule of Quantities and Prices*, are included in the *Work* specifically or by necessary inference from the *Contract Documents:*
 - 10.1.2 all assessments payable with respect to labour as required by any statutory scheme such as unemployment insurance, holiday pay, insurance, CPP and all employee benefits and the Workers Compensation Act;

11.0

12.0

		10.1.3	all overhead costs, including head office and on-site overhead costs, and all amounts for the <i>Contractor's</i> profit.
	10.2	compliance w qualifications	I prices and all subcontracts must allow for with all applicable laws regarding trade or other sof employees performing the <i>Work</i> , and payment of wages for labour included in or required for the
Taxes	11.1	kind payable	I prices shall cover all taxes and assessments of any with respect to the <i>Work</i> , but shall not include <i>GST</i> . isted as a separate line item as required by GC 19.3.
Amendment of Tenders	12.1	notice, delive 3.4 of the Ins <i>Tender Closin</i> is received af	ay amend or revoke a tender by giving written red by Email, to the office referred to in paragraph tructions to Tenderers at any time up until the g Date and Time. An amendment or revocation that ter the Tender Closing Date and Time shall not be and shall not affect a tender as submitted.
	12.2	signatory of t	ent or revocation must be signed by an authorized the tenderer in the same manner as provided by 1 of these Instructions to Tenderers.
	12.3	tenderer's <i>Te</i> such that, in	nent that expressly or by inference discloses the <i>inder Price</i> or other material element of the tender the opinion of the <i>Owner</i> , the confidentiality of the ached, will invalidate the entire tender.
	12.4		e form of a tender amendment which tenderers not required to, use is as follows:
		"Contract:	(TITLE OF CONTRACT)
		Reference No	
		TO:	(NAME OF OWNER)
		submitted fo	rsigned wish to amend our tender which we r the above <i>Contract</i> by deleting the following ces or items from our tender:
		(TEDNERED PRICES A	ND/OR TENDER ITEMS IN THE TENDER THAT ARE TO BE AMENDED)
		and substitut	ing the following revised tendered prices or items:

(REVISED TENDERED PRICES OR TENDER ITEMS)

			The extensions in our tender should be adjusted accordingly, and our <i>Tender Price</i> as set out in Appendix 1 of our submitted Form of Tender , and on the <i>Schedule of Quantities and Prices</i> , increased / decreased by \$, excluding GST. We have not included our revised <i>Tender Price</i> in order to preserve the confidentiality of our tender.
			Signed and delivered the day of, 20"
13.0	Duration of Tenders	13.1	After the <i>Tender Closing Time</i> , a tender shall remain valid and irrevocable as set out in paragraph 5.1 of the Form of Tender.
14.0	Qualifications of Tenderers	14.1	By submitting a tender, a tenderer is representing that it has the competence, qualifications and relevant experience required to do the <i>Work</i> .
15.0	Award	15.1	In exercising its discretion, the <i>Owner</i> will have regard to the information provided in the Appendices to the Form of Tender as described under IT 5.3 including the proven experience of the tenderer, and any listed subcontractors, to do the <i>Work</i> .
			Tenders received will be evaluated to provide the City with

Tenders received will be evaluated to provide the City with greatest value based on quality, service, price and experience. Evaluation Criteria will include but is not limited to:

- 1. Ability to meet specifications and required completion date
- 2. Contractor's past experience, references, reputation and compliance to specifications
- 3. Demonstrated successful experience on similar projects and specific equipment installation
- 4. Price: purchase price, maintenance costs, availability of parts and service, warranty and compatibility with existing equipment and/or conditions
- 5. Any other criteria, the City deems, at its sole discretion, necessary to evaluate Tenders;
- 6. Lowest price will not necessarily be accepted.

The City may, in its absolute discretion, not award to a Tenderer if the Tenderer, or any officer or director of a corporate Tenderer, is or has been engaged, either directly or indirectly through another corporation or legal entity, in a legal action against the City and its elected and appointed officers and employees or any of them in relation to:

- a) any other contract or services; or
- b) any matter arising from the City's exercise of its powers, duties or functions under the *Local*

Government Act, the Community Charter or any other enactments; within five years of this Tender Offer.

For purposes of this section, the words "legal action" includes, without limitation, mediation, arbitration, hearing before an administrative tribunal or lawsuit filed in any court.

Without limiting the City's sole discretion, in determining whether or not to award to a Tenderer pursuant to this clause, the City will consider such factors as whether the legal action is likely to affect the Tenderer's ability to work with the City and its employees, agents, consultants and representatives or any of them and whether the City's past experience with the Tenderer in the matter that resulted in the legal action indicates that the City is likely to incur increased staff and legal costs or either of them in the administration of this contract if it is awarded to the Tenderer.

In the event that the lowest total Tender Price by two or more Tenderers is the same amount, the City will select a Tenderer with an overall satisfactory performance record in having completed work on previous relevant projects that are provided as references, and on City projects. Information obtained from references will not be disclosed or discussed with any Tenderer. If all references are equal, selection will be determined by a coin toss in a manner to be directed by the City.

Where only one Tender is received the City may reject such and re-tender on a selected basis.

- 15.2 The *Owner* will notify the successful tenderer in writing.
- 15.3 If there are any discrepancies in the *Schedule of Quantities and Prices* between the unit prices and the extended totals then the unit prices shall be deemed correct, and corresponding corrections shall be made to the extended totals. If a unit price or extended total has been omitted, the following shall apply:
 - a) If a unit price is given but the corresponding extended total has been omitted, then the extended total shall be calculated from unit price and the estimated quantity, and inserted as the extended total;
 - b) If an extended total is given but the corresponding unit price has been omitted, then the unit price shall be calculated from the extended total and estimated quantity, and inserted as the unit price;
 - c) If both the unit price and the corresponding extended total for a tender item have been omitted, then the following test shall be applied to determine whether the tender shall be rejected as incomplete:

- the highest of the unit prices tendered by other tenderers for that tender item shall be used as the test unit price, and the corresponding test extended total shall be calculated from the test unit price and the estimated quantity;
- (ii) if the test extended total for the tender item exceeds 1% of the revised total *Tender Price*, including the test extended total, or if the revised total *Tender Price*, including the test extended total, alters the ranking of the tenderers according to the lowest *Tender Price*, then the omitted unit price for that tender item is deemed to materially affect the *Tender Price* relative to other tenders and the tender shall be rejected;
- (iii) if the tender is not rejected under subparagraph (ii) of this IT 15.3 (c), then the unit price and the extended total for that tender item shall both be deemed to be, and the costs for that tender item shall be zero deemed to be included in other tender items prices;
- d) In no event shall page totals in the *Schedule of Quantities* and *Prices* or the total *Tender Price* be used to calculate missing extended totals or unit prices.

16.0 Subcontractors

16.1 The *Owner* reserves the right to object to any of the subcontractors listed in a tender. If the *Owner* objects to any of the subcontractor(s) then the *Owner* will permit a tenderer to, within 5 days, propose a substitute subcontractor(s) acceptable to the *Owner* provided that there is not resulting adjustment in the *Tender Price* or the completion date set out in paragraph 2.2 of the Form of Tender. A tenderer will not be required to make such substitution and, if the *Owner* objects to a listed *Subcontractor(s)*, the tenderer may, rather than propose a substitute subcontractor(s), consider its tender rejected by the *Owner* and by written notice withdraw it tender. The *Owner* shall, in the event, return the tenderer's bid security

17.0 Optional Work

- 17.1 If the Schedule of Quantities and Prices includes any tender prices for Optional or Provisional Work, as defined in GC 7.4.1, the tenderers must complete all the unit prices for such Optional or Provisional Work. Such tender prices shall not include any general overhead costs, or other costs, or profit, not directly related to the Optional or Provisional Work.
- 17.2 Notwithstanding that the *Owner* may elect not to proceed with the *Optional or Provisional Work*, the tender prices for any *Optional*

or Provisional Work, including the extended totals for Optional or Provisional Work unit prices, shall be included in the Tender Price for the purpose of any price comparisons between tenders.

Form of Tender



Form of Tender

Tender No. 85245

2024 Sanitary and Storm Open Cut Point Repairs

Summary

Name of <i>Contractor</i> :	
Tender Price (exclude GST):	
	(FROM APPENDIX 1 OF FORM OF TENDER)

Tender submitted must be accompanied by a copy of the original 10% Bid Bond and will be received

On or before 2:00 pm (local time) <u>Monday, October 7, 2024</u>

Instructions for Tender Submission

Tender submissions are to be consolidated into one (1) .pdf file and uploaded electronically through QFile, the City's file transfer service accessed at website: gfile.coguitlam.ca/bid

- 1. In the "Subject Field" enter: Tender Number and Name
- 2. Add consolidated Tender file in PDF format, and Appendix 1 in XLS format, and Send (ensure your web browser remains open until you receive 2 emails from Qfile to confirm upload is complete and was sent to the correct email address: bid@coquitlam.ca)

Tenderers are responsible to allow ample time to complete the Tender submission process. If assistance is required, phone 604-927-3037.

THE CITY OF COQUITLAM 3000 Guildford Way Coquitlam, B.C. V3B 7N2

October 2024

(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.)

Contract Name: 2024 Sanitary and Storm Open Cut Point Repairs

Reference No.: 85245

1.3

TO OWNER:

1 WE, THE UNDERSIGNED:

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

(ADDENDA IF ANY)	

- shall fully disclose any actual or potential conflicts of interest and existing business relationships we may have with the City, their elected or appointed officials or employees:
 - have full knowledge of the *Place of the Work*, and the *Work* required; and
- 1.4 have complied with the Instructions to Tenderers; and

2 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 April 4, 2025; and
- 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*.

3 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 obliged to accept this Tender.

4 WE CONFIRM:

- 4.1 that the following Appendices are attached to and form a part of this tender:
 - 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 Certificate of Compliance on the form provided in Appendix 7 of this Form of Tender.

5 WE AGREE:

- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of <u>60</u> 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 **15** *Days* of receipt of the written *Notice of Award* deliver to the *Owner*:
 - a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, 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*;
 - b) a "clearance letter" indicating that the Tenderer is in WCB compliance;
 - c) a copy of the insurance policies as specified in SGC Section 24 indicating that all such insurance coverage is in place and;
 - d) a letter confirming the *Contractor* as "Prime Contractor" for the Contract as specified in SGC Section 21.2.1.
 - 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.

6 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 <u>Contract</u> and the <u>Owner</u> may, on written notice to us, award the <u>Contract</u> to another party. We further agree that, as full compensation on account of damages suffered by the <u>Owner</u> because of such failure or refusal, the <u>Bid Security</u> shall be forfeited to the <u>Owner</u>, in an amount equal to the lesser of:

- 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*.

Phone:	
Email:	
Attention:	
This Tender is executed thi	isday of, 20
Contractor:	
(FULL LEGAL NAME OF CO	DRPORATION, PARTNERSHIP OR INDIVIDUAL)

8	WE CO	NFIRM:
---	-------	--------

(GST F	REGISTRATION NUMBER)
or;	
8.1.2	by signature hereunder, we certify we are not required to provide a registration number:

(AUTHORIZED SIGNATORY)

APPENDIX 1 FORM OF TENDER

Contract 85245

2024 Sanitary and Storm Open Cut Point Repairs

SCHEDULE OF QUANTITIES AND PRICES

(see paragraph 5.3.1 of the Instruction to Tenderers)

(All Tender and Contract Prices shall NOT include GST. GST will apply upon payment)

(Should there be any discrepancy in the information provided, the City's original file copy shall prevail)

ITEM	MMCD Ref. /	DESCRIPTION		271		EVERIBED AMOUNT		
NO.	(Supp. Specs)	DESCRIPTION	UNIT	QTY	UNIT PRICE	EXTENDED AMOUNT		
1.00		TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING						
1.01	(1.5.1)	Traffic Control and Management		lı lı	ncidental to Cont	ract		
2.00		ENVIRONMENTAL PROTECTION						
2.01		ESC supply & installation, maintenance and removal	Incidental to Contract					
3.00		SANITARY SEWERS						
3.01	(1.6.2)	SNPI00083 - 200 VC Point Repair from 90.4 to 92.2m (Joint to Joint)	LS	1				
3.02	(1.6.2)	SNP100083 - 200 VC Point Repair from 101.5m to 103.2m (Joint to Joint)	LS	1				
3.03	(1.6.2)	SNPI00285 - 200 VC Point Repair from 26m to 28m (Joint to Joint)	LS	1				
3.04	(1.6.2)	SNP100285 - 200 VC Point Repair from 0m to 1m (At Drop Structure)	LS	1				
3.05	(1.6.2)	SNPI01117 - 200 AC Point Repair from 13m to 15m (Joint to Joint)	LS	1				
3.06	(1.6.2)	SNPI10378 - 300 AC Point Repair from 29m to 30m (Joint to Joint)	LS	1				
3.07	(1.6.2)	SNPI11186 - 200 AC Point Repair from 24m to 28m (Joint to Material Change)	LS	1				
3.08	(1.6.2)	SNPI11837 - 200 PVC Point Repair from 3.0m to 4.0m	LS	1				
3.09	(1.6.2)	SNPI12805 - 200 VC Point Repair 27.0m to 29.5m (Joint to Joint)	LS	1				
3.10	(1.6.2)	SNPI13232 - 200 Conc. Point Repair from 37.5m to 38.5m	LS	1				
3.11	(1.6.2)	SNPI19930 - 200 PVC Point Repair from 2.0m to 3.0m	LS	1				
3.12	(1.6.2)	SNPI11199 - 200 Conc. Point Repair from 27.4m to 29.6m	LS	1				
3.13	(1.6.2)	SNP100750 - 200 VC Point Repair 24.3m to 25.5m (Joint to Joint)	LS	1				
3.14	(1.6.2)	SNPI01135 - 200 AC Point Repair from 43.5m to 45.5m	LS	1				
3.15	(1.6.2)	SNPI02206 - 200 AC Point Repair from 62m to 63m	LS	1				
4.00		STORM SEWERS						
4.01		STPI04384 - 375 PVC Point Repair from 30m to 31m	LS	1				
4.02	(/	STPI04384 - 375 PVC Point Repair from 95.0m to 96.0m	LS	1				
4.03		STPI04873 - 250 PVC Point Repair from 9.0m to 10.0m	LS	1				
4.04		STPI04873 - 250 PVC Point Repair from 67.0m to 68.5m	LS	1				
4.05		STP106253 - 250 Conc. Point Repair from 29m to 31m (Joint to Joint)	LS	1				
4.06	(1.6.2)	STP106253 - 250 Conc. Point Repair from 50.8m to 52.5m (Joint to Joint)	LS	1				
4.07	(1.6.2)	STPI06271 - 200 Conc. Point Repair 12.0m to 12.7m (Joint to Joint)	LS	1				
4.08		STPI06273 - 200 Conc. Point Repair from 48.8m to 50.6m	LS	1				
4.09	(1.6.2)	STPI06274 - 200 Conc. Point Repair from 3.0m to 5.3m	LS	1				
4.10	(1.6.2)	STPI06276 - 200 Conc. Point Repair from 9.2m to 10.6m	LS	1				
4.11		STPI08208 - 250 Conc. Repair from 18.5m to 19.6m	LS	1				
4.12		STP108208 - 250 Conc. Repair from 121.4m to 123.7m	LS	1				
4.13	(1.6.2)	STPI08259 - 200 Conc. Repair from 11.7m to 13.0m	LS	1				
4.14	(1.6.2)	STP109245 - 200 Conc. Repair from 78.3m to 82.3m	LS	1				
4.15	(1.6.2)	STP109250 - 200 Conc. Repair from 39.0m to 42.0m	LS	1				
4.16	(1.6.2)	STPI13006 - 250 Conc. Repair from 48.6m to 50.0m	LS	1				
4.17		STPI15262 - 200 Conc. Repair from 48.5m 51.5m	LS	1				
4.18	(1.6.2)	STPI15286 - 375 Reinforced Conc. Repair from 0m to 2.7m	LS	1				
4.19	(1.6.2)	STPI15317 - 250 Conc. Repair from 0m to 1.3m	LS	1				
4.20	(1.6.2)	STP108275 - 200 Conc. Repair from 20m to 21m	LS	1				

Total Tendered Price (exclude GST):

(Transfer the amount to Form of Tender Summary Page 1)

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

PRELIMINARY CONSTRUCTION SCHEDULE

(See paragraph 5.3.2 of the Instructions to Tenderers)

INDICATE SCHEDULE WITH BAR CHART WITH CONSTRUCTION DURATIONS

Construction	N	ove	mb	er	D	ece	mb	er		lanı	ıary	7	F	ebr	uar	y		Ma	rch		April
Activity	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1

Substantial Completion Date: April 4, 2025	
Proposed Disposal Site:	

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

EXPERIENCE OF SUPERINTENDENT

(See paragraph 5.3.3 of the Instructions to Tenderers)

Proposed Project Super	intendent	
<u>List of Project Experie</u>	<u>ence</u>	
PROJECT:	Dates:	
Work Description:	•	
Responsibility:		
Owner/Reference:	Phone No.:	
PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone No.:	
PROJECT:	Dates:	
Work Description:		
Responsibility:		
Owner/Reference:	Phone No.:	

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

CONTRACTOR'S COMPARABLE WORK EXPERIENCE

(See paragraph 5.3.4 of the Instructions to Tenderers)

PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		
PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		
PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		
PROJECT:	VALUE (\$):	
OWNER:	Phone No.:	
Work Description:		

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

SUBCONTRACTORS

(See paragraph 5.3.5 of the Instructions to Tenderers)

Trade:	Tender	
Traue.	Item:	
Work Description:		
Subcontractor:	Phone No.:	
Trade:	Tender	
Traue.	Item:	
Work Description:		
Subcontractor:	Phone No.:	
Trade:	Tender	
Trade.	Item:	
Work Description:		
Subcontractor:	Phone No.:	
Trade:	Tender	
Trade:	Item:	
Work Description:		
Subcontractor:	Phone No.:	
Trade:	Tender	
Trade.	Item:	
Work Description:		
Subcontractor:	Phone No:	

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

Bid Bond NO. _____ KNOW ALL MEN BY THESE PRESENTS THAT As Principal, hereinafter called the Principal, and As Surety, hereinafter called the Surety, are held and firmly bound unto As Obligee, hereinafter called the Obligee, in the amount of ______ Dollars (\$______) lawful money of Canada, for the payment of which sum, well and truly to be made, the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents. WHEREAS, the Principal has submitted a written Tender to the Obligee, dated the ______day of ______, 2024, for Contract ______ NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the aforesaid Principal shall have the Tender accepted within sixty (60) days from the Closing Date of Tender and the said Principal will, within the time required, enter into a formal contract and give good and sufficient bonds to secure the performance of the terms and conditions of the Contract, then this obligation shall be null and void; otherwise the Principal and Surety will pay unto the Obligee the difference in money between the amount of the bid of the said Principal and the amount for which the Obligee legally contracts with another party to perform the work if the latter amount be in excess of the former. The Surety shall not be liable for a greater sum than the specified penalty of this Bond. Any suit under this Bond must be instituted before the expiration of six (6) months from the date of this Bond. IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-In-Fact, this ______ day of ______, 2024. SIGNED, SEALED AND DELIVERED In the presence of: PRINCIPAL))

SURETY

FORM OF TENDER

Contract 85245 2024 Sanitary and Storm Open Cut Point Repairs

CERTIFICATE OF COMPLIANCE for CONTRACT INSURANCE

This is provided for information to certify that the Tenderer does hereby undertake and agree to supply to the City of Coquitlam, upon award, contract insurance listed below for the project requirements indicated:

Contract Number: 85245

Contract Name: 2024 Sanitary and Storm Open Cut Point Repairs

Description of Work:

- 18 sanitary main open cut point repairs at various locations;
- 22 storm main open cut point repairs at various locations;
- Surface restoration; and,
- Other miscellaneous and incidental works as further described in the Contract Documents.

Commercial General Liability:	\$5,000,000 limit						
Special Coverage Required:	YES NO Special Coverage Description () (X) Shoring and Underpinning Hazard () (X) Pile Driving and Vibrations () (X) Excavation Hazard () (X) Demolition						
	() (X) Blasting						
Conditions Section 24 – Insurance, included as	meet the requirements of the Supplementary General part of the Contract Documents, and that the proof of Coquitlam Certificate of Insurance form, without above.						
Name of Tenderer (printed)	Authorized Signature						
Data							
Date							

Agreement

AGREEMENT

Between Owner and Contractor

(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.)

THIS AGREEME	IENT made in duplicate this day of	2024.
Contract:	2024 Sanitary and Storm Open Cut Point F	Repairs
Reference No.	85245	
BETWEEN:		
3000 G	ty of Coquitlam Guildford Way tlam, B.C. V3B 7N2	
(the " <i>O</i>	Owner")	
AND:		

(the "Contractor")

The *Owner* and the *Contractor* agree as follows:

1 THE WORK - START/COMPLETION DATES

- 1.1 The *Contractor* will perform all *Work* and provide all labour, equipment and material and do all things strictly as required by the *Contract Documents*.
- 1.2 The *Contractor* will commence the *Work* in accordance with the *Notice to Proceed*. The *Contractor* will proceed with the *Work* diligently, will perform the *Work* generally in accordance with the construction schedules as required by the *Contract Documents* and will achieve *Substantial Performance* of the *Work* on or before **April 4, 2025**, subject to the provisions of the *Contract Documents* for adjustments to the *Contract Time*.
- 1.3 Time shall be the essence of the Contract.

2 CONTRACT DOCUMENTS

- 2.1 The "Contract Documents" 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 Contract Documents. All of the Contract Documents shall constitute the entire Contract between the Owner and the Contractor.
- 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*.

3 CONTRACT PRICE

- 3.1 The price for the Work ("Contract Price") shall be the sum in Canadian dollars of the following:
 - a) 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
 - b) all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
 - c) 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*.

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.

5 RIGHTS AND REMEDIES

5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available hereunder 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*.

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 email, or by hand, or by pre-paid registered mail to the addresses as set out below:

The *Owner:* The *Contractor:*

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel: 604-927-3500 Tel:

Email: Attention:

The *Contract Administrator*:

The City of Coquitlam 3000 Guildford Way Coquitlam, B.C. V3B 7N2

Tel:

Email:

Attention:

- 6.2 A communication or notice that is addressed as above shall be considered to have been received:
 - a) immediately upon delivery, if delivered by hand; or
 - b) immediately upon transmission if sent or received by email; or
 - c) 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*.

7 GENERAL

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

Contractor:

- 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 enure 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.

(FULL LEGAL NAME OF CORPORATION, PARTNER	_ HIP OR INDIVIDUAL)
(AUTHORIZED SIGNATORY)	_
(AUTHORIZED SIGNATORY AND POSITION - PRIN	,
Owner:	
The City of Coquitlam	
(MANAGER, CAPITAL PROJECTS AND INSPECTION Representative as Per G.C. 17	_ S)

(SENIOR MANAGER, DESIGN AND CONSTRUCTION)

2024 Storm and Sanitary Open Cut Point Repairs

Reference No: 85245

Schedule 1

Schedule of Contract Documents

(INCLUDE IN LIST <u>ALL</u> DOCUMENTS INCLUDING, IF ANY, SUPPLEMENTARY GENERAL CONDITIONS, SUPPLEMENTARY SPECIFICATIONS, SUPPLEMENTARY STANDARD DETAIL DRAWINGS)

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

<u>NOTE</u>: The documents noted with "*" are contained in the "Master Municipal Construction Documents – General Conditions, Specifications and Standard Detail Drawings", edition dated 2009. All sections of this publication are included in the *Contract Documents*.

- 1. Agreement, including all Schedules;
- 2. The following Addenda:
 - As issued
- 3. Supplementary General Conditions, if any;
- 4. General Conditions*;
- 5. Supplementary Specifications, if any;
- 6. Detail Specifications, if any;
- 7. Specifications*;
- 8. Supplementary Detail Drawings, if any;
- 9. Standard Detail Drawings*;
- 10. Executed Form of Tender, including all Appendices;
- 11. Drawings listed in Schedule 2 to the Agreement –"List of Drawings", if any;
- 12. Instructions to Tenderers;
- 13. COQUITLAM "Supplementary Specifications Master Municipal Construction Documents"
 March 2022

2024 Storm and Sanitary Open Cut Point Repairs

Reference No: 85245

Schedule 2

LIST OF DRAWINGS

(Complete Listing of All Drawings, Plans and Sketches That Are Part of the Contract Documents)

Bound in this Document:

Appendix A: Traffic Management Detail Specifications

Appendix B: Location Maps

Appendix C: As Built Drawings

Appendix D: CCTV Inspection Video File Links

Appendix E: CCTV Inspection Reports

Supplementary General Conditions

SUPPLEMENTARY GENERAL CONDITIONS

TABLE OF CONTENTS

		Page
Supplementa	ry General Conditions to MMCD Volume II, 2009 Issue	SGC 1 to SGC 17
Section 1: DE	FINITIONS	SGC 3
1.1	Abnormal Weather	
Section 2: D	OCUMENTS	SGC 3
2.2	Interpretation	
Soction 4: C	ONTRACTOR	SCC 2 to 7
4.1	ONTRACTOR Control of Work	
4.1	Safety	
4.2	Protection of Work, Property and the Public	
4.5 4.6	Construction Schedule	
4.0	Superintendent	
4.7	Workers	
4.8	Materials	
4.11	Subcontractors	
4.12	Tests and Inspections	
4.14	Final Clean-up	
4.16	Notice of Disruption	
Section 7: Cl	HANGES	SGC 7
7.1	Changes	
7.4	Optional Work	
Section 9: VA	ALUATION OF CHANGES AND EXTRA WORK	Sec 8
9.2	Valuation Method	
9.4	Quantity Variations	
Section 10: E	ORCE ACCOUNTS	SCC 8
10.1	Force Account Costs	
10.1	Force Account Costs	3GC 0
Section 12: H	HAZARDOUS MATERIALS	
12.2	Discovery of Hazardous Materials	SGC 9
Section 13: [DELAYS	SGC 9 to 10
13.1	Delay by Owner or Contract Administrator	
13.3	Unavoidable Delay	
13.8	Direction to Stop or Delay	
13.9	Liquidated Damages for Late Completion	SGC 9 to 10
Section 18: F	PAYMENT	SGC 10 to 11
18.1	Preparation of Payment Certificate	SGC 10

18.4	Holdba	acks	SGC 10
18.6	Substa	ntial Performance	SGC 10 to 11
Section 21: W	ORKER:	S COMPENSATION REGULATIONS	SGC 11
21.2	Contra	ctor is "Prime Contractor"	SGC 11
Section 24: IN	NSURAN	ICE	SGC 11 to 16
24.1	Genera	al	SGC 11 to 12
24.2	Requir	ed Insurance	SGC 12 to 13
24.3	Physica	al Loss or Damage with Respect to New Buildings under	
	Constr	uction and/or Major Additions to Existing Structures	SGC 13 to 16
24.4	Additio	onal Insured	SGC 16
Section 25: M	IAINTEN	NANCE PERIOD	SGC 16 to 17
25.1	Correc	tion of Defects	SGC 16 to 17
Section 27: C	ONTRA	CTOR PERFORMANCE EVALUATION	SGC 17
APPENDICES			SGC 18 to 24
Appen	dix I	Performance Bond	SGC 18 to 19
Appen	dix II	Labour and Material Payment Bond	SGC 20 to 22
Appen	dix III	Certificate of Insurance	
Appen	dix IV	Prime Contractor Designation Letter	SGC 24

1.0 **DEFINITIONS**

1.1 Abnormal Weather 1.1.1 (Replace clause 1.1.1 as follows):

Abnormal Weather" means temperature, precipitation, wind or other weather conditions in which the monthly average, differs from the statistical average for that condition in that period by more than one standard deviation, calculated based on data available from Environment Canada. Coquitlam's Burke Mountain Rain Gauge will be used to compare the rainfall summary versus the available data from Environment Canada.

City of Coguitlam Rainfall

2.0 DOCUMENTS

2.2 Interpretation 2.2.4 (1) **(Replace clause 2.2.4 (1) as follows):**

The Contract Documents shall govern and take precedence in the following order as listed in Schedule 1 of the Agreement, taking precedence over all Contract Documents.

4.0 CONTRACTOR

4.1 Control of the Work

4.1.1 *(Add to clause 4.1.1 as follows):*

The *Contractor* is responsible for all survey layout for the construction of the Work to the design specifications and/or elevations as shown on the contract drawings or as amended on site by the Contract Administrator.

4.1.2 *(Add to clause 4.1.2 as follows):*

The Contractor shall not deposit any material upon any street, sidewalk, boulevard or other property, without the Contract Administrator's or the Owner's permission, nor shall they allow the same to remain longer than necessary. All surplus spoil and rubbish and other waste material shall be removed from the site so that the area of work is cleaned up and restored to as clean a condition as it was before the Contract started, within four days of the Contract Administrator's written request to do so, failing which the Owner may carry out the work or have the work carried out by others and recover the costs from the Contractor or may deduct the cost from any monies due or that may become due to the Contractor.

4.1.3 (Add new clause 4.1.3 as follows):

Work can be performed during the normal weekday working hours of 0700h to 1900h, unless specified otherwise in Supplementary Specifications - Appendix A: Traffic Management Detail Specifications. Written

permission from the Contract Administrator will be required for any works to be performed outside of the normal working days of Monday to Friday.

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

In case the Contractor decides to work on a day which is a Statutory Holiday, they shall provide the Contract Administrator in writing at least (4) days in advance of such holiday, stating those places where said work is to be conducted. In case the Contractor fails to give such notice in advance of any Statutory Holiday, no work within the terms of the contract shall be done on such holiday.

The cost of inspections on a Sunday or on a Statutory Holiday by City staff/s will be at Contractor's expense.

4.2 Safety

4.2.2 *(Add new clause 4.2.2 as follows):*

In an emergency, gas pipeline rupture or leak, Contact FortisBC's 24 Hour Emergency Line (1-800-663-9911) and Coquitlam Fire (911) immediately and then City of Coquitlam's Utility Control Centre (604-927-6287).

4.3 Protection of Work, Property and the Public

4.3.1 *(Replace clause 4.3.1 as follows):*

In performing the Work, the Contractor shall protect the Work and the Owner's property and other person's property from damage. The Contractor shall at the Contractor's own expense make good any such damage which arises as the result of the Contractor's operations. If the Contractor causes damage to private property, the Contactor must obtain a written release from the owner of the damaged property.

4.3.5.1 (Add clause 4.3.5.1 as follows):

The Contractor shall notify the Contract Administrator immediately if damage occurs to any City or third party utility or structure.

4.3.7 (Add new clause 4.3.7 as follows):

Any lands other than those upon which the work is to be performed, which may be required for temporary facilities, storage purposes or access to the work site, other than those provided by the *Owner*, shall be provided by the *Contractor* at their own cost, with no liability to the *Owner*.

CITY OF COQUITLAM Contract No. 85245		Supplementary General Conditions SG		SGC-5
4.6	Construction Schedule	4.6.1	(Replace clause 4.6.1 as follows): The Contractor shall within the time set out Tender prepare and submit to the Contract for their approval a construction schedule Construction Schedule) indicating the plan completion dates of major activities of the Baseline Construction Schedule shall be in mather Preliminary Construction Schedule and completion of the Work in compliance with Milestone Dates, including Substantial Performance	t Administrator te (the Baseline nned start and ne Work. The nore detail than I shall indicate n any specified
		4.6.6	(Replace clause 4.6.6 as follows): The time for the performance of the Work stone on the date specified in the Notice to Procespecified, on the date the Notice to Proceed Notice to Proceed will not be issu documentation required under paragraph 5. of Tender has been submitted and the schedule has been approved.	ed, or if not so is issued. The ed until the 1.1 of the Form
		4.6.8	(Add new clause 4.6.8 as follows): Any requests to lengthen the work schedule in writing by the Contractor within five we knowledge of the reason for the extension. Administrator will adjust the schedule at tupon receipt of a written request.	orking days of . The Contract
4.7	Superintendent	4.7.4	(Add new clause 4.7.4 as follows): The key personnel named in the Contraresponse, shall remain in these key position the project. In the event that key person Contractor's firm, or for any unknown reason continue fulfilling their role, the Contractor is suitable replacement, and obtain written co Owner. Acceptance of the proposed replacement discretion of the Contract Administ Owner.	ons throughout nnel leave the n are unable to must propose a nsent from the ement is at the
4.8	Workers	4.8.2	(Add new clause 4.8.2 as follows): The Contractor shall, upon the request of Administrator, remove any person employed the purposes of the Contract who, in the Contract Administrator, is incompetent or themselves improperly, and the Contractor's a person who has been removed to return Work.	ed by them for opinion of the has conducted shall not permit
4.9	Materials	4.9.3	(Add new clause 4.9.3 as follows): The Contractor shall, at their cost,	

- a) Be responsible for storing all of the materials supplied for the Work either by themselves or the Owner, until it has been incorporated into the completed Work;
- b) Store all materials in a manner which will prevent damage from the weather, dirt, foreign matter, vandalism and theft;
- c) Arrange for and/or verify the time of delivery of all materials to be supplied by themselves or the Owner to ensure that delivery will coincide with their work schedules.
- d) Examine with the Contract Administrator the quantities and details of all materials supplied by the Owner at the time and place of delivery or those materials already at the Place of Work, and prepare and sign a Statement of Materials Acceptance, specifically noting and rejecting any defective material;
- Replace all materials supplied by themselves or the Owner which are found to be stolen, missing or damaged while under their care;
- f) Replace all materials found to be defective in manufacture which have been supplied by themselves.

4.11 Subcontractors 4.11.3 (*Replace clause 4.11.3 as follows*):

The Contractor shall, upon notice of the Contract Administrator, remove any Subcontractor employed by them for the purposes of the Contract who, in the opinion of the Contract Administrator, is incompetent or has conducted themselves improperly, and the Contractor shall not permit the Subcontractor who has been removed to return to the Place of Work. The removal of a Subcontractor under this clause shall not be considered a Change and the Contract Price and the Contract Time shall not be adjusted.

4.12 Test and Inspections

4.12.1 *(Replace clause 4.12.1 as follows):*

The Contractor shall perform or cause to be performed all tests, inspections and approvals of the Work as described in the Contract Documents or a required by the Contract Administrator as part of Quality Control. The Contractor shall complete all the necessary testing at the frequencies described in the Contract Document unless otherwise approved by the Contract Administrator.

Acceptable test and inspection results will not relieve the Contractor of its obligations under the Contract to correct defects or deficiencies in the Work.

4.12.11 *(Add clause 4.12.11 as follows):*

Failure to follow DFO/FLNRO BMPs and the approved permit for Instream Works or as instructed by Contract Administrator will result in shut-down of the work. The

CITY OF COQUITLAM Contract No. 85245		Supplem	entary General Conditions SGC-7
			Contractor must take all steps to mitigate impacts to aquatic resources, environment and habitats before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.
4.14	Final Clean-up	4.14.1	(Replace clause 4.14.1 as follows): Prior to applying for Substantial Performance, the Contractor shall remove all surplus products, tools, construction machinery and equipment relating to the Work that is not required for the performance of the remaining Work. The Contractor shall also remove waste, debris and waste products other than caused by the Owner or Other Contractors, and leave the Place of Work clean and suitable for occupancy by the Owner unless otherwise specified in the Contract Documents or directed by the Contract Administrator.
4.16	Notice of Disruption	4.16.2	(Add new clause 4.16.2 as follows): Written notice must be provided to all properties which may be physically affected by the construction not less than one week and not more than two weeks prior to construction. Notify occupants directly affected by the work 48 hours in
			advance of commencement of construction. Cost of notifying area occupants of ensuing construction and delivery of the notices is incidental to the Contract.
7.0	CHANGES		
7.1	Changes	7.1.3	(Replace clause 7.1.3 as follows): Additional work that the Owner may wished performed that does not satisfy the requirements of subparagraphs (a) and (b) of GC 7.1.1 is extra work (Extra Work) and is not a Change. Pursuant to GC 8, Extra Work may be declined by the Contractor or may, upon agreement between the parties, be undertaken as Extra Work.
7.4	Ontional Work	7.40	(Add now clayer 7.4.2 as follows):

7.4 Optional Work 7.4.2 (Add new clause 7.4.2 as follows):

If there are Optional items or Provisional items included in the *Schedule of Quantities and Prices*, those items shall be used only as directed and at the sole discretion of the Contract Administrator through the issue of a Change Order. These items will be paid at the contract unit price as part of regular progress payments. Only quantities used will be eligible for payment. No claim will be accepted for unused Optional or Provisional quantities. Clause 9.4 Quantity Variations will not be applicable for these items.

CITY OF COQUITLAM
Contract No. 85245

Supplementary General Conditions

SGC-8

9.0 VALUATION OF CHANGES AND EXTRA WORK

9.2 Valuation Method

9.2.4 (Replace clause 9.2.4 as follows):

Once a quotation is accepted by the Contract Administrator, or other agreement reached between the Contract Administrator and the Contractor regarding adjustments to the Contract Price or Contract Time on account of a Change or Extra Work, the Contractor shall not be entitled to claim or receive additional payment, or adjustment to the Contract Time on account of a Change or Extra Work.

9.4 Quantity Variation 9.4.1

(Replace clause 9.4.1 as follows):

If for any reason, including an addition or deletion under GC 7.1.1(1) or 7.1.1(2) respectively, the actual quantity of a unit price item varies by more than plus or minus the Variance Threshold Percentage from the estimated quantity for that unit price item listed in the Schedule of Quantities and Prices (the "Tender Quantity") or as otherwise agreed to pursuant to these Contract Documents, then either the Owner or the Contractor may by written notice request the other party to agree to a revised unit price, considering the change in quantities. A party shall make a request for a revised unit price as soon as reasonably possible after the party concerned becomes aware of the quantity variation.

9.4.2 (Delete clause 9.4.2 (2)

10.0 FORCE ACCOUNTS

10.1 Force Account Costs

10.1.1(1) (Add to clause 10.1.1(1) as follows):

Costs for the Contractor's Superintendent, Project Managers, Health and Safety Personnel, and Office/Administration Staff are not eligible for labour costs as those costs are considered incidental to the mark up owing for overhead and labour.

10.1.1(4) (Replace clause 10.1.1(4) as follows):

Force Account Work performed by a subcontractor shall be paid for in the lesser of: (i) the amount provided by subparagraphs (1), (2) and (3) of this GC, plus a mark-up of 5%, or (ii) the actual amount the Contractor pays the subcontractor including a mark-up of 10% on such actual costs to cover all overhead and profit.

	CITY OF COQUITLAM Contract No. 85245		Supplementary General Conditions	
12.0	HAZARDOUS MATERIALS			
12.2	Discovery of Hazardous Materials	12.2.2	(Replace clause 12.2.2 as follows): If the Contract Administrator observes ar Place of Work that the Contract Admin suspects may be Hazardous Materials, the Administrator shall immediately give write Contractor and the Contractor shall immediately or portion of the Work as required in the Contractor.	istrator knows or then the Contract tten notice to the nediately stop the
13.0	DELAYS			
13.1	Delay by Owner or Contract Administrator	13.1.2	(Add new clause 13.1.2 as follows): The Owner may at any time suspend portion thereof provided they give the days' written notice of delay. The Contrawork upon written notice from the Owneshall be entitled to:	Contractor five (5) actor shall resume
			 a) An extension of the Contract time length of suspension of work. b) Reimbursement by the Owner for di of-pocket additional costs, reasonabincurred by the Contractor as a suspension. No additional paymenthe Contractor for any loss of profits 	rectly related out- oly and necessarily a result of such of will be made to
13.3	Unavoidable Delay	13.3.1	(Add to clause 13.3.1 as follows): Beyond the reasonable control of the Contractor a includes pandemic or community outbreak	
13.8	Direction to Stop or Delay	13.8.3	(Add new clause 13.8.3 as follows): The Contract Administrator may order the Contractor to stop work if at any time the Contract Administrator is of the opinion that there exists a danger to life or property.	
13.9	Liquidated Damages for Late Completion	13.9.1	(Replace clause 13.9.1 as follows): If the Contractor fails to meet the M Substantial Performance as set out in the paragraph 2.2 as may be adjusted provisions of the Contract Documents, the deduct from any monies owing to the Work: (1) An amount of \$1,000.00 for each actual Substantial Performance is a	e Form of Tender, pursuant to the en the Owner may Contractor for the calendar day the

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

Substantial Performance Milestone Date; plus

(2) All direct out of pocket costs, such as costs for safety, security or equipment rental, reasonably incurred by the Owner as a direct result of such delay.

If the monies owing to the Contractor are less than the total amount owing by the Contractor to the Owner under (1) and (2) then any shortfall shall immediately, upon written notice from the Owner, and upon Substantial Performance, be due and owing by the Contractor to the Owner.

18.0 PAYMENT

18.1 Preparation of Payment Certificate

18.1.1 *(Replace clause 18.1.1 as follows):*

The Contract Administrator shall prepare and issue a certificate for the period ending the last calendar day of the month.

18.4 Holdbacks

18.4.2 *(Add to clause 18.4.2 as follows):*

At the sole discretion of the Contract Administrator, an amount equivalent to 10% of the contract award value or 200% of a reasonable estimate, whichever is higher, may be held without interest until all deficiencies have been remedied and accepted by the Contract Administrator.

18.6 Substantial Performance

18.6.5 *(Replace clause 18.6.5 as follows):*

The Owner may release any builders lien holdback on the <u>56th day</u> following the date of Substantial Performance, or other date as required by law, but the Owner may hold back the amounts for any deficiencies or filed builders liens as provided in GC 18.4.2, 18.4.3 and 18.4.4.

18.6.6 *(Replace clause 18.6.6 as follows):*

The Contract Administrator, as defined herein, shall be the Payment Certifier responsible under Section 7 of the Builders Lien Act for certifying Substantial Performance of the Work of the Contractor, but not the Work of Subcontractors. The Contractor shall cooperate with and assist the Contract Administrator by providing information and assistance in a timely manner as the Contract Administrator considers necessary to carry out the duties of the Payment Certifier for the Contract.

The Contractor shall be the Payment Certifier responsible under Section 7 of the Builders Lien Act for certifying Substantial Performance of the Work of each Subcontractor. Prior to certifying completion for a Subcontractor, the Contractor shall consult the Contract Administrator and obtain the Contract Administrator's comments on the status of completion by the Subcontractor, including any

deficiencies or defects in the *Subcontractor's Work* noted by the *Contract Administrator*. The *Contractor* will indemnify and save the *Owner* harmless from any and all liability the *Owner* may have to anyone arising out of the certification by the *Contractor* of *Substantial Performance* for that *Subcontractor*.

Notwithstanding any other provision of the *Contract*, no payments will be due or owing to the *Contractor* so long as a Lien filed by anyone claiming under or through the *Contractor* remains registered against the Project of any lands, or interest therein, on which *Work* for the project was performed. Failure of the *Contractor* to remove all Liens promptly will entitle the *Owner* to damages.

21.0 WORKERS COMPENSATION REGULATIONS

21.2 Contractor is "Prime Contractor"

21.2.1 *(Add to clause 21.2.1 as follows):*

Prior to the issuance of the "Notice to Proceed" the Contractor must provide a signed "Prime Contractor Designation" form as provided in Appendix IV of these Supplementary General Conditions.

24.0 INSURANCE

(Replace section 24.0 as follows):

24.1 General

24.1.1 Importance of Prompt Attention to Insurance Requirements:

The Contractor shall provide the Owner with satisfactory evidence that the insurance required to be provided under this GC is in full force and effect.

24.1.2 **Acceptable Insurance Carriers:**

The insurer issuing any policy, or other document which is evidence of insurance to the Contractor, shall be an insurer licensed by the Superintendent of Insurance in the Province of British Columbia and registered with the Department of Insurance for Canada in Ottawa, except the Insurance Corporation of British Columbia, which is not subject to this condition.

24.1.3 **Owner's Right to Change Terms:**

Notwithstanding anything contained in the Contract Documents, the Owner will have the right to request a change to the specified terms and conditions respecting insurance at the sole option of the Owner. The Contractor

will be notified in writing of any changes required by the Owner and will provide a quotation for such work.

24.1.4 **Delivery of Insurance Documents:**

All insurance policies or other acceptable specified documents shall be delivered to, and accepted by, the Owner before the Contract Documents are signed. No work shall be commenced by the Contractor or by anyone acting on the instructions of the Contractor, until the required Insurance Documents have been accepted by the Owner and the Contract Documents have been duly signed by the Owner and the Contractor.

24.1.5 **Owner's Right to Insure:**

Should the Contractor for any reason not comply with the specified requirements with respect to the insurance, the Owner will, at the Owner's option, have the right to purchase all or any part of such insurance which, in the opinion of the Owner, may be required to provide the specified insurance, and, in the event of so doing, the Owner will have the right to pay the premiums for such insurance and to withhold the amount of premiums so paid from any amount due and payable to the Contractor under the Contract.

24.2 Required Insurance

24.2.1 **General**

Damage to work (excluding Building Contracts where Section 24.3, Paragraph 24.3.1, Further Responsibilities of Contractor, applies).

The Contractor shall be responsible for any and all loss, or damage, whatsoever which may occur on or to the works, completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner. In the event of any loss or damage occurring, the Contractor shall, on notice from the Contract Administrator, immediately put the works into the condition it was immediately prior to such loss or damage, all at the

Contractor's expense, except where such loss or damage was caused solely by an act of the Owner.

The Contractor shall be responsible for any and all loss or damage whatsoever which may occur on or to the works, completed or otherwise, arising out of the negligence of the Contractor, any subcontractors, and the employees or agents of any of them.

24.2.2 **Public Liability Insurance:**

(Other than Automobile Third Party Liability Insurance):

Evidence of Insurance:

The Contractor shall deposit with the Owner, before the work commences, a Certificate of Insurance, signed by an authorized representative of the insurer, such certificate to be as shown in Appendix III.

Effective Dates and Terms:

The effective date of the Certificate of Insurance shall be the date of the execution of the Contract Agreement and the term of this policy shall be from such effective date until a date not less than twelve (12) months after the date of Substantial Performance completion of all work under the Contract.

Limits of Liability:

For bodily injury and for property damage shall be inclusive limits not less than \$5,000,000.

24.2.3 **Public Liability Insurance (Automobile):**

The Contractor shall deposit with the Owner before the work commences a Certificate of Insurance with respect to owned automobiles on ICBC Form No. APV 47 entitled "Confirmation of Insurance Coverage" and with respect to Non-Owned Automobiles including hired automobiles and Contractual Liability on ICBC non-owned automobile policy Form APV 29 (if non-owned automobile coverage is not included under the comprehensive general liability coverage) each signed by an authorized representative of the Insurance Corporation of British Columbia.

24.3 Physical Loss or Damage With Respect to New Buildings under Construction and/or Major Additions to Existing Structures

24.3.1 **Responsibility for Placing Insurance:**

The types of insurance required under this section will be provided and maintained at the expense of the City of Coquitlam during the term of the Contract and will be as follows unless otherwise changed by specific endorsement to these Insurance Specifications.

24.3.2 **Insurance Coverage Required:**

Builders Risk Completed Value "All Risks" Course of Construction Insurance. This policy will be written in the

names of the City of Coquitlam and the Contractor with loss payable as their respective interests may appear.

24.3.3 Responsibility of Contractor – Limitations of cover and deductibles:

The insurance provided by the City of Coquitlam as described herein will not provide the Contractor with full protection against any and all kinds of loss or damage which may arise out of the Contract. It is, therefore, the responsibility of the Contractor to fully understand the scope of the cover provided with particular attention to the exclusions, limitations of cover and deductible provisions contained in the Insuring Agreements of the policies and it is further the responsibility of the Contractor to take out at the Contractor's expense, whatever other additional insurance the Contractor may consider necessary or desirable for his protection subject as hereinafter provided. The Contractor shall act in the same manner on insurance made available through the City of Coquitlam as he would if he had arranged such insurance himself.

24.3.4 Responsibility of Contractor – Direct Damage Insurance:

If the Contractor fails to do all or anything that is required of them concerning insurance, the City of Coquitlam may do what is required and any monies expended by the City of Coquitlam for that purpose shall be repayable and recoverable from the Contractor. Should any action, failure or negligence of the Contractor result in higher insurance costs being incurred by the City of Coquitlam, such additional costs shall be payable or recoverable from the Contractor.

24.3.5 Responsibility of Contractor – Machinery and Equipment Belonging to Others:

Unless otherwise directed by the City of Coquitlam in writing, the Contractor shall carry insurance covering loss or damage to construction machinery, tools and equipment owned by and/or on bare rental from a third party or parties and used by the Contractor in performing the work, which insurance shall be in a form satisfactory to the City of Coquitlam and having coverage in accordance with the actual cash value of such construction machinery, tools and equipment. Such policies shall also provide for subrogation to be waived against the City of Coquitlam. A certified copy of the policy shall be delivered to the City of Coquitlam not later than thirty days after the commencement of work under the Contract.

24.3.6 **Contractor's Waiver of Liability to Coquitlam:**

The Contractor hereby releases the City of Coquitlam from any and all liability for damages to the extent that such damages are covered by the course of construction insurance referred to in Section 24.3 of these specifications.

24.3.7 **Liability of Contractor:**

Neither the providing of insurance by the Contractor or the City of Coquitlam in accordance with the requirements hereof, nor the insolvency, bankruptcy, nor failure of any insurance company to pay any claim accruing shall be held to waive any of the provisions of this Contract with respect to the liability of the Contractor or otherwise.

24.3.8 Responsibility of Contractor for protection of work, persons and property:

The Contractor and all persons employed by the Contractor or under their control, and all employees and subcontractors, shall use due care that no person or property is injured, and that no rights are infringed in the prosecution of the work. Contractors shall take particular care to protect the work against loss or damage caused by riot, vandalism or malicious mischief and shall be at the expense of the Contractor provide all necessary safeguards in the form of watchmen and/or watch dog protection to prevent loss or damage of this type. The payment of deductibles is the responsibility of the Contractor and if not paid by the Contractor such amounts shall be deducted by the City of Coquitlam from payment due to the Contractor. These deductibles will normally be \$250.00 each claim.

24.3.9 Action to be taken in the event of loss or damage to the work covered by the Contract:

When any loss or damage occurs to the work or to any materials and supplies on the site of the work, the Contractor shall remove any and all damaged or destroyed property and shall rebuild or replace the damaged or destroyed work, materials, or supplies and complete the work to the satisfaction of the Owner. For such removal, rebuilding, or replacing, the Contractor shall be entitled to receive from the Owner the amount of insurance monies received by the Owner pursuant to the said adjustment which amount shall be paid to the Contractor as the work of rebuilding or replacing proceeds, and in accordance with the Agreement. Damage or destruction of the whole or any part of the work shall not affect the rights and obligations of either party under the Agreement, except that in such event the Contractor shall be entitled to such reasonable

extension of time to complete the work as the Architect and/or Contract Administrator may decide.

24.3.10 Further responsibility of Contractor:

Other than with respect to loss or damage arising out of insured risks and herein before specified, the Contractor shall be responsible for all loss or damage whatsoever which may occur on or to the works completed or otherwise, until such time as the entire works have been completed and the Notice of Acceptance has been issued by the Owner, except that loss or damage caused solely by an act of the Owner.

In the event of any loss or damage occurring, the Contractor shall on notice from the Owner immediately put the works into the condition it was immediately prior to such loss or damage, all at the Contractor's expense except as previously stated.

24.3.11 Owner Not Responsible for Loss or Damage or Loss of Use of Property of Contractors and their Employees:

The Owner will not be responsible for securing or paying for insurance of any kind other than as specified in Section 24.3 of these specifications nor will the Owner have any responsibility whatsoever for loss or damage from whatever cause occurring to property owned, leased, or otherwise in the possession of the Contractor, subcontractors or their employees including, without restricting the generality of the foregoing, machinery, equipment, tools, supplies, and clothing at the construction site or elsewhere including loss of use of same.

24.4 Additional Insured 24.4.1

The Contractor shall ensure the following are named as "additional insured" on the liability policy for this contract:

The City of Coquitlam

The City may identify private properties that are directly affected by construction. If so, the Contractor shall include the legal owners of these properties named as "additional insured" on the liability policy for this contract.

25.0 MAINTENANCE PERIOD

25.1 Correction of Defects

25.1.4 (Add new clause 25.1.4 as follows):

The Owner is authorized to make repairs to defects or deficiencies if, ten days after giving written notice, the

Contractor has failed to make or undertake with due diligence the required repairs. However, in the case of emergency where, in the opinion of the Owner, delay is not reasonable, repairs may be made without notice being sent to the Contractor. All expenses incurred by the Owner in connection with repairs made pursuant to GC 25 shall be paid by the Contractor or may be deducted from the Maintenance Security, or other holdbacks. The Contractor shall promptly pay any shortfall.

27.0 CONTRACTOR PERFORMANCE EVALUATION

27.1 (Add new clause 27.1 as follows):

After the completion of the Contract, the Contractor will be evaluated on their performance of the Work. The evaluation will provide percentage scores on the following categories:

- 1. Contract Administration
- 2. Construction Management
- 3. Schedule Management
- 4. Communications
- 5. Resource Management and Contractor Performance
- 6. Quality Management

An evaluation summary report may be issued to the Contractor with scores for each of these categories. Upon request, the Contractor may attend a meeting with the City to discuss the evaluation.

This internal evaluation may be reviewed for reference on subsequent tenders with the City. Evaluation scores can form part of the tender analysis and influence contract award decisions.

Evaluation Scores in categories that are below 50% may result in a suspension of tendering privileges with the City.

APPENDIX I

PERFORMANCE BOND

	NO		\$		
	KN	OW ALL MEN BY TI	HESE PRESENTS	THAT	
	As Prir	ncipal, hereinafter	called the Princ	cipal, and	
	As Surety, hereina	after called the Sur	ety, are held ar	nd firmly bound unto	
	3 .		,	•	
	As Obligee,	hereinafter called	the Obligee, in	the amount of	
		(\$		Dollars	
		(φ	,		
the Surety bin		heirs, executors, a		ruly to be made, the Principal an successors and assigns, jointly a	
WHEREAS, the	Principal has enter	ed into a written c	ontract with the	e Obligee, dated the	_
day of	20	, for			

in accordance with the drawings and specifications submitted, therefore, which contract, drawings and specifications and addenda thereto, to the extent provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION is such that, if the Principal shall promptly and faithfully perform said Contract (including any addenda thereto, provided such addenda do not collectively increase the amount to be paid to the Principal by more than twenty per cent (20%) of the amount of the Contract except with the written consent of the Surety) then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

CITY OF COQUITLAM
Contract No. 85245

Supplementary General Conditions

SGC-19

Whenever the Principal shall be, and declared by Obligee to be, in default under the Contract, the Obligee having performed Obligee's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- 1. Complete the Contract in accordance with its terms and conditions, or
- 2. Obtain a bid or bids for submission to Obligee for completing the Contract in accordance with its terms and conditions, and upon determination by Obligee and Surety of the lowest responsible bidder, arrange for a contract between such bidder and Obligee and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term 'balance of the contract price', as used in this paragraph, shall mean the total amount payable by Obligee to Principal under the Contract less the amount properly paid by Obligee to Principal.

Any suit under this Bond must be instituted before the expiration of two (2) years from date on which the Notice of Acceptance under the Contract is issued.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Obligee named herein or the heirs, executors, administrators, or successors of Obligee.

	•	hereto set its hand and affixed its seal, and the Surety has corporate seal duly attested by the signature of its
Attorney-in-fact, this	_day of	20
SIGNED, SEALED and	DELIVERED	
In the presence of	`	DDINGIDAL
)	PRINCIPAL
)	
)	
)	SURETY
)	
	-	

APPENDIX II

LABOUR AND MATERIAL PAYMENT BOND

(Private Contracts – Trustee Form)

NO		\$	
Note: This Bond is issued simul for the fu		other Bond in favour of ormance of the Contrac	
KNC	OW ALL MEN BY THI	ESE PRESENTS THAT	
As Prin	cipal, hereinafter c	alled the Principal, and	
As Surety, hereinafter called the	e Surety, are, subje and firmly bo		 reinafter contained, held
As Trustee, hereinafter called th of their heirs, executors	•		
\$) lawful money of the Principal and the Surety bind assigns jointly and severally, firm	themselves, their l	heirs, executors, admin	Dollars rell and truly to be made, nistrators, successors and
SIGNED AND SEALED this	day of	, 20	
WHEREAS, the Principal has ente day of		ontract with the Oblige	e dated the
which contract is by reference m	ade a part hereof, a	and is hereinafter refer	red to as the Contract.
NOW, THEREFORE, THE CONDITI payment to all Claimants for all la performance of the Contract, the full force and effect, subject, how	abour and material en this obligation sh	used or reasonably recall be null and void; ot	quired for use in the

- 1. A Claimant for the purpose of this Bond, is defined as one having a direct contract with the Principal for labour, material, or both, used or reasonably required for use in the performance of the Contract, labour and material being construed to include the part of water, gas, power, light, heat, oil, gasoline, telephone service or rental equipment directly applicable to the Contract provided that a person, firm or corporation who rents equipment to the Principal to be used in the performance of the Contract under a contract which provides that all or any part of the rent is to be applied towards the purchase price thereof shall only be a Claimant to the extent of the prevailing industrial rental value of such equipment for the period during which the equipment was used in the performance of the Contract. The prevailing industrial rental value of equipment shall be determined, insofar as it is practical to do so, in accordance with and in the manner provided for in the latest revised edition of the publication of the Canadian Construction Association entitled "Rental Rates on Contractors' Equipment" published prior to the period during which the equipment was used in the performance of the Contract.
- 2. The Principal and the Surety hereby jointly and severally agree with the Obligee as Trustee that every Claimant who has not been paid as provided for under the terms of his contract with the Principal before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labour was done or performed or materials were furnished by such Claimant, may as a beneficiary of the trust herein provided for, sue on this Bond, prosecute the suite to final judgment for such sum or sums as may be justly due to such Claimant under the terms of his said contract with the Principal and have execution thereon. Provided that the Obligee is not obliged to do or take any act, action or proceeding against the Surety on behalf of the Claimants or any of them to enforce the provisions of this Bond. If any act, action or proceeding is taken either in the name of the Obligee or by joining the Obligee as a party to such proceedings then such act, action or proceeding shall be taken on the understanding and basis that the Claimants or any of them who take such act, action or proceeding shall indemnify and save harmless the Obligee against all costs, charges and expense or liabilities incurred thereon and any loss or damage resulting to the Obligee by reasons thereof. Provided still further that subject to the foregoing terms and conditions, the Claimants or any of them may use the name of the Obligee to sue on and enforce the provisions of this Bond.
- 3. No suit or action shall be commenced hereunder by any Claimant:
 - a) unless such Claimant shall have given written notice within the time limits hereinafter set forth to each of the Principal, Surety and Obligee, stating with substantial accuracy the amount claimed. Such notice shall be served by mailing the same by registered mail to the Principal, Surety and Obligee at any place where an office is regularly maintained for the transaction of business by such persons or served in any manner in which legal process may be served in the Province or other part of Canada in which the subject matter of the contract is located. Such notice shall be given (i) in respect of any claim for the amount or any portion thereof required to be held back from the Claimant by the Principal under either the terms of the Claimant's contract with the Principal or under the Mechanic's Liens Legislation applicable to the Claimant's contract with the Principal whichever is the greater within one hundred and twenty (120) days after such Claimant should have been paid in full under the Claimant's contract with the Principal; (ii) in respect of any claim other than for the holdback or portion thereof referred to above within one hundred and twenty (120) days after the date upon which such claimant did

- or performed the last of the work or labour or furnished the last of the materials for which such claim is made under the Claimant's contract with the Principal.
- b) after the expiration of one (1) year following the date on which Principal ceased work on the Contract including work performed under guarantees provided in the Contract.
- c) Other than in a court of competent jurisdiction in the Province or District of Canada in which the subject matter of the Contract or any part thereof is situated and none elsewhere, and the parties hereto agree to submit to the jurisdiction of such court.
- 4. The amount of this Bond shall be reduced by and to the extent of any payments made in good further and in accordance with the provisions which may be filed of record against the subject matter of the Contract, whether or not claim for the amount of such lien be presented under and against this Bond.
- 5. The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

IN TESTIMONY WHEREOF, the Principal has hereto set its hand and affixed its seal, and the Surety has caused these presents to be sealed with its corporate seal duly attested by the signature of its Attorney-in-fact the day and year first above written.

SIGNED, SEALED and	d DELIVERED		
In the presence of			
)	PRINCIPAL	
)		
)		
)	SURETY	
)		
	•		

APPENDIX III

CERTIFICATE OF INSURANCE

This Certificate issued to the City of Coquitlam is to certify that policies of insurance, as described below, have been issued to the Insured named below and are in force at this time. It is understood and agreed that thirty (30) days' prior written notice by registered mail of any material alterations, transfer, assignment or cancellation of any of the policies listed below, either in part or in whole, will be given to the holder of this Certificate.

A.	This Certificate	is issued to:	Named Insured and Mailing Address:				
	3000	of Coquitlam Guildford Way uitlam, BC V3B 7N2					
В.	CONTRACT NU	MBER AND/OR NAME	Description of the Work:				
C.	INSURANCE PC	DLICY					
	Name of Insurer	:					
	Policy Number:		Liability Limit:				
	Effective Date:		Expiry Date:				
D.		INSURANCE COVERAGE					
		•	required to insure against liability from the activities arising out of operations or work in				
D 1			luding liability arising out of the use of City property.				
D.1 D.2			isive per occurrence against bodily injury, personal injury and property damage. s, agents and volunteers are added as Additional Insureds, but only with respect to				
D.2	,		amed Insured in connection with the above-described project, operations or work.				
D.3	•	•	City of Coquitlam, its employees, officers, agents and volunteers as Additional Insureds.				
D.4			tained in the policy shall not apply to the City of Coguitlam and shall be the sole				
J.,	•	the Named Insured.	tained in the policy shall not apply to the city of coquition and shall be the sole				
D.5		hall include the following cover	rages:				
		s Liability Clause	- 3				
		Owned Automobile Liability					
		ensed Automobile Liability					
	D.5.4 Blank	ket Contractual Liability					
		d Form Property Damage Liabil	lity				
	D.5.6 Owne	er's & Contractor's Protective Li	ability				
	D.5.7 Produ	ucts & Completed Operations L	iability				
D.6	Indicate provision	on of special coverage for this p	project as required by the City:				
	YES NO	Special Coverage Des	cription				
	() (X) Shoring and Underpir	nning Hazard				
	() (X) Pile Driving and Vibrations						
	() (X						
	() (X	•					
	() (X	•					
			Authorized Signature and Stamp				
Date			Name and Title				
City' br	oker to return to C	ity Representative	Department				



APPENDIX IV

Owner		CITY OF COQUITLAM	
Contra	ctor: ct / Permit #:	85245	
	:/ Workplace:	2024 Sanitary and Storm Open Cut Point Repairs (the "Project")	
By sign	ing this Prime (Contractor Designation form, the Contractor hereby:	
1.	Compensation	and accepts designation as, the "prime contractor" for the purposes of the Worke n Act, R.S.B.C. 2019, c. 1 (the "Act") and the Occupational Health and Safety C. Reg. 223/2022 (the "Regulation") in respect of the Project and Workplace noted	
2.	prime contract	d warrants that the Contractor is qualified and capable to perform the duties of tor and that the undersigned signatory has the authority to accept designation a tor and to bind the Contractor;	
3.	persons at the to do everythin	uty and responsibility for ensuring the activities of employers, workers and other Workplace relating to occupational health and safety are coordinated and agre ng that is reasonably practicable to establish and maintain a system or process re compliance with the Act and the Regulation in respect of the Workplace;	
4.	covenants and agrees to comply with the occupational health and safety provisions of the Act, the Regulation, any other applicable regulations under the Act, and any applicable orders;		
5.	the Owner tha	and agrees that the Owner has provided the Contractor the information known at is necessary to identify and eliminate or control hazards to the health or safety workplace; and	
6.	_	e designation as prime contractor hereunder may not be assigned or revoked ior written consent of the Owner.	

Print Name

Prime Contractor

Prime Contractor Signature

Address:

Please return a signed copy of this designation to the City of Coquitlam, 3000 Guildford Way, Coquitlam, BC, V3B 7N2. If you have any questions, please contact the City of Coquitlam Health & Safety Manager at 604-927-3070.

These Supplementary General Conditions must be read in conjunction with the General Conditions contained in the Master Municipal Construction Documents, Volume II, Printed 2009

Date

Supplementary Contract Specifications

Supplementary Contract Specifications

to the
MASTER MUNICIPAL SPECIFICATIONS
Volume II – Platinum Book

2024 Sanitary and Storm Open Cut Point Repairs

CONTRACT 85245

TABLE OF CONTENTS

The following Supplementary Specifications are to be considered part of the Specifications. These Supplementary Specifications take precedence over the Master Municipal Specifications.

Sι	JPPL	.EME	NTA	RY (CON	TRACT
----	-------------	------	-----	------	-----	-------

SPECIFICATION	IS INDEX	SS 1
00 72 43S	Contract Specific Notations	SS 2 to SS 5
01 33 01S	Project Record Documents	
01 45 00S	Quality Control	SS 7 to SS 8
01 55 00S	Traffic Control, Vehicle Access and Parking	SS 9 to SS 10
01 57 01S	Environmental Protection	SS 11 to SS 12
03 30 20S	Concrete Walks, Curbs and Gutters	SS 13
31 05 17S	Aggregates and Granular Material	SS 14
31 11 01S	Clearing and Grubbing	SS 15
31 11 415	Shrub and Tree Preservation	SS 16
32 11 16.1S	Granular Subbase	SS 17
32 11 23S	Granular Base	SS 18
32 12 16S	Hot Mix Asphalt Concrete Paving	SS 19
32 17 23S	Painted Pavement Markings	SS 20
32 91 21S	Topsoil and Finish Grading	SS 21
32 92 23S	Sodding	SS 22
33 02 30.1S	CCTV Inspection of Pipelines	
33 01 30.2S	Cleaning of Sewers	SS 25
33 30 01S	Sanitary Sewers	
33 40 01S	Storm Sewers	

1.00 CONTRACT SPECIFIC INSTRUCTIONS

1.01 Coordination of Work with CMBC

Major Roads & Community Corridor Roads are bus routes; therefore the Contractor shall be responsible to consult with the Coast Mountain Bus Company (CMBC) regarding delays, detours, temporary bus stop closures and any other works affecting the transit service in the area.

1.02 Outside Agency Approval

In accordance with the Contract Documents, the Contractor at his own cost, is responsible to consult with and obtain any approval required to meet and comply with all the conditions required from outside agency such as, but not limited to, BC One Call, Metro Vancouver, School District, BC Hydro, Telus, Kinder Morgan, and Fortis BC in the area of the place of Work.

1.03 Waste Collection Coordination

- Contractor is responsible to accommodate all waste collection vehicles and cart pick up schedules throughout construction. Collection schedule can be found in https://www.coguitlam.ca/157/Collection-Calendar-Guidelines.
- 2. If waste collection will be impacted the contractor is responsible to:
 - a. Provide advanced notification to:
 - The City's Solid Waste staff at 604-927-3500 or wastereduction@coquitlam.ca; and
 - ii. The City's Contract Administrator.
 - b. Provide access for collection trucks to closed streets due to road work; or
 - c. Move waste carts for collection:
 - i. The Contractor is required to ensure each cart is labelled with the property address and returned to the correct address after collection (each cart has its own individual cart identification code and is specifically assigned to each property). Contractors will be responsible for the costs to replace missing carts.
- 3. Contractor's Request for Change in Collection Time (e.g. PM to AM):
 - The Contractor must provide residents with as much notice as possible – minimum 5 working days.
 - ii. The contractor must follow all conditions of Clause 1.04 and is responsible to deal with any missed collections. For example, taking garbage to the United Boulevard Recycling and Waste Centre or covering the cost associated for any missed collection to be rescheduled.

Questions: wastereduction@coquitlam.ca

1.04 Cooperation with Emergency and Maintenance Activities

The Contractor will be responsible to cooperate with regular maintenance or emergency vehicles and staff for access to the site when required including:

- Fire, Police, and Ambulance
- Progressive Waste (garbage pick-up)
- City Utilities Maintenance (or representatives)

The Contractor shall ensure that garbage brought out by residents is picked up by garbage collection company.

1.05 Site Safety

The Contractor is responsible to ensure the construction site is safe at all times for workers, pedestrians, and vehicle traffic. At all times, the Contractor must ensure that the site has all potentially hazardous areas appropriately identified and protected, all cables, piping, and equipment shall be secured from the public and also must provide appropriate signage, lighting, and markings for the direction of vehicle and pedestrian traffic, all to ensure the safety of the public. Supply and use of this equipment is considered incidental to the contract.

Manhole lids, valve boxes and other appurtenances within the roadway that may present a traffic hazard during construction must be clearly marked for traffic.

1.06 Lane Closure Restrictions

Refer to: Appendix A: Traffic Management Detail Specifications.

A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.

Costs to complete the works taking the above restrictions into consideration shall be incidental to work described in other sections unless otherwise shown in the Schedule of Quantities and Prices.

1.07 Location of Existing Utilities

Before commencing any Work at the Place of the Work, the Contractor shall be responsible to locate in three dimensions all underground utilities and structures indicated on the Contract Documents as being the Place of the Work. The Contractor shall also be responsible to consult with all the utility corporations that provide electricity, communications, gas or other utility services in the area of the Place of Work, to locate all underground utilities for which they have records. The Contractor shall also locate in three dimensions any other utilities or underground structures that are reasonably apparent in an inspection of the Place of the Work. Cost to do the pre locating of all the utilities will be incidental.

The contractor is responsible to verify the depth and location of all utilities (watermains, storm mains, sanitary mains & etc.), including outside agency utilities (i.e. Fortis BC Mains, Kinder Morgan Pipeline, BC Hydro & Metro Vancouver.) and service connections (water, storm & sanitary services at the mains & property lines) by hand digging or by Hydro-Vac in the presence of the Inspector. Contact BC One for location of outside agency utilities.

The Contractor is responsible to exert all effort to complete the pre-locates using the utility connection cards, BC One Call, as-built records, design drawings, site inspections, sonde, camera, dye testing, test/pot holing and use of utility locating company. If pre-locates is not successful in spite of the efforts using the above, compensation for each intended pre-locate location may be considered at the discretion of the Contract Administrator.

The contractor will not receive any compensation or allowance for delays if work is halted due to utilities & services connections not located prior to commencing construction.

CCTV video links for each pipe requiring repair have been provided via. the City's QTP site. Videos will be made available on the City's QTP site for 30 days or can provided directly to the Contractor upon request. Please refer to Appendix D.

Payment for this work will be treated as incidental to payment for work described in other Sections.

1.08 Manholes & Valves

Access to manholes and valves must be maintained at all time for city utilities crews and external utility companies. In case of an emergency the cost for exposing any buried manhole or valve covers during construction will be paid by the contractor.

1.09 Permanent Pavement Restoration

Permanent pavement restoration is required **immediately after completing subsurface work.** Payment for all work performed for permanent pavement restoration will be as described in Supplementary Contract Specifications, Section 32 12 16S.

1.10 Precautions

Protect areas under construction from damage caused by excessive erosion, flooding, heavy rains, etc. Repair or replacement of unprotected damaged areas and as directed by the Contract Administrator will be at no cost to the Owner.

1.11 Service Disruptions

Contractor shall contact all residences and businesses regarding sewer disruptions for tie-ins. Contractor is responsible for ensuring that any sewer service disruptions will not affect the business operation in the area or Contractor may provide temporary alternative to the businesses affected. Payment is incidental to work described in other sections.

2.00 CONSTRUCTION ACTIVITY

2.01 Notice to Residents and Businesses

Residents and businesses affected by the proposed construction must be notified by the Contractor at least 5 days prior to commencement of works and be provided with the construction schedule and Contractor's contact information.

2.02 Site Clean-up During Construction and End of Construction

The Contractor will be responsible for the complete clean-up of the work site during construction and at the end of construction <u>prior to de-mobilization from the street and to the satisfaction of the Contract Administrator.</u> This work is considered incidental to the Contract.

The work will include cleaning of all catch basins periodically or as directed by the Contract Administrator within the Work area, or nearby location as affected by the Work. All cleaning is to be performed by <u>vacuum truck to the satisfaction of the Contract Administrator</u> and will include off-site disposal of waste material.

Payment for this work will be treated as incidental to payment for work described in other Sections.

2.03 Construction Material in Sewer manholes and Pipe

The Contractor is responsible to ensure that construction activities do not deposit construction materials (eg. gravels) into the storm sewer or sanitary sewer manholes or pipe. The City has a video record of the pipe before construction. Prior to Substantial Performance, the City may again video inspect the lines to ensure no problems exist due to construction activities under this contract. If problems are encountered, the Contractor will be responsible for the cost of the video and all costs associated with the cleaning of the pipe.

2.04 Construction on Multiple Locations / Restoration Work

The Contractor must complete all Works on a particular street, including restoration, before proceeding on a different street unless approved by the Contract Administrator.

3.00 MANDATORY MEETINGS AND CONTRACTOR REPRESENTATIVES AND SUBCONTRACTORS

3.01 Pre-Construction Meeting Requirements

After the Award of the Contract, the Contractor (Project Manager & Superintendent) will be required to attend a Pre-Construction Meeting with the Contract Administrator and provide all necessary information required by the Contract Administrator prior to provision of a Notice to Proceed. Items required to be provided at the meeting include:

- A Detailed Construction Schedule showing the start date & completion date and the durations of major work components showing how all work will be completed within the Contract Duration.
- 2. Proof of insurance
- 3. Performance Bond and Labour and Materials Payment Bond
- 4. WCB Clearance Letter and copy of Notice of Project
- 5. City of Coquitlam Business License
- 6. A copy of portions of your Health and Safety Plan including the Title Page, Table of Contents, and portion showing latest revision date.
- 7. Signed Prime Contractor Designation letter

3.02 Contract Schedule Contract Duration, and Charges

A detailed, realistic construction schedule for this project will be required to be presented at the pre-construction meeting. The schedule must show major components and durations. All work under this project is to be completed within the designated Contract Duration as contained in the signed **Contract Agreement**, or as formally amended.

3.03 Contract Superintendent and Subcontractors

In compliance with the MMCD General Conditions, Section 4.7, Superintendent, the Contractor shall have a competent senior representative, (the "Superintendent") in FULL TIME attendance at the Place of Work while work is being performed for the duration of the contract. This (FULL TIME) attendance is also required when work is being performed by Subcontractors.

Work done by Subcontractors is to be directed by the Superintendent and monitored on site ensuring conformance to the Contract Documents and other particular direction to the Superintendent by the Contract Administrator. The Owner is not responsible for the direction of Subcontractors.

3.04 Changes of Contractor Representatives & Subcontractors

The Superintendent and Subcontractors indicated in the Form of Tender shall not be changed unless:

- 1. The Owner requests a replacement
- The Contractor submits an application for a change, in writing, to the Contract Administrator with the change being approved in writing.

3.05 Mobilization and Demobilization

Payment for mobilization and demobilization of all equipment, labour and materials (both from the Contractor and all sub-contractors) shall be incidental.

1.0 GENERAL

1.3 Submission

Delete 1.3.2 and replace with the following

Submit one copy of an accurate project record document in final form prior to applying for Substantial Performance including any video report. Record documents to include changes in the Issued for Construction Drawings, new elevation, offsets & location of all utilities, manhole rim, catchbasin rim, vaults, valve boxes, inverts walkways/sidewalks, and any unknown/new utilities found on site. Legal holdbacks will not be released until record documents have been submitted and accepted by the Contract Administrator.

Contractor to get sign off letter duly signed by the property owners when private side is affected by the work. Properties to get the sign off letters will be at the sole discretion of the Contract Administrator.

Payment for all work performed under this section will be incidental to work in other Sections, unless otherwise described in Schedule of Quantities and Prices.

1.0 QUALITY

The Contractor shall provide a final product conforming to the Contract Documents and the intent of the work. The work is to be accurate to the dimensional and tolerance requirements of the Contract.

Payment will be subject to adjustments based on quality assurance tests performed by the Contract Administrator.

1.1 Quality Control (QC) by Contractor

The MMCD (2009) definition of "Quality Control" is the process by which the *Contractor* checks specific materials, products, and workmanship to ensure strict conformance with the Contract Documents.

The Contractor is fully responsible for quality control of the materials, production, and construction processes. Quality control tests shall be performed by the Contractor, at their own expense, to ensure that products meet the contract specifications.

Failure by the Contractor to conduct adequate quality control testing during production and construction will negate the Contractor's ability to appeal the quality assurance tests used for acceptance/rejection of the work.

Under no circumstances will QC test results produced after completion of the Quality Assurance (QA) results be considered for appeal purposes

Any changes in the Work with respect to the location, grade, or line shall be approved in advance by the Contract Administrator. Failure to notify the Contract Administrator of changes in writing may result in rejection of Work.

1.2 Inspection of Work, Quality Assurance, and Material Testing, by the Owner

The MMCD (2009) definition of "Quality Assurance" means the process by which the Owner evaluates if the work is being constructed in accordance with the Contract Documents. This definition will be used for this contract

The *Contract Administrator* will provide construction review through spot inspections and spot materials testing for Quality Assurance.

Any materials testing results indicating a non-conformance to the Contract Documents will require construction corrective action by the Contractor. The Contractor shall have no claim for delays, interruptions, double-handling of materials, rejection of materials, or any other cause brought about by such tests, including awaiting the outcome of such tests.

<u>Costs for all subsequent testing to corrective action to verify conformance to the Contract Documents will be the full responsibility of the Contractor.</u> Inspection review by the Owner will not relieve the Contractor from providing a product that meets or exceeds the requirements of the Contract Documents.

1.3 Inspection

Materials testing shall be as described in MMCD General Conditions, Section 4.12 with the following change:

Delete Section 4.12.2(a) and insert the following:

Where the MMCD specification clauses for Inspection and Testing indicate the Contract Administrator will arrange for all testing for work described in this section will be amended to read The Contractor will arrange for and pay for all testing for work described in this section. The testing shall take place at the following prescribed rates and as directed by the contract administrator. The contract administrator has the authority to call for testing, up to the rates and frequencies specified, at the Contractors cost.

All testing covered under this item shall be performed by a CSA/CCIL certified laboratory and technicians with copies of all test results to be sent directly to the Contract Administrator. Re-testing resulting from failed first tests shall be at the Contractors expense.

1.4 Testing

Contractor shall carry out inspection and testing (QC) to ensure compliance with Contract Documents. Contractor shall submit test results within one week of testing to the Contract Administrator.

The Contractor shall provide test results prior to the preparation of the payment certificate.

1.5 Contractors Responsibilities

Furnish labour and facilities to:

- 1. Provide access to work to be inspected
- 2. Facilitate inspections and tests
- 3. Make good work disturbed by inspection and tests

1.6 Access to Work

Allow inspection testing agencies access to Work.

1.7 Tests

Test rates and frequencies (excluding failed tests), when not defined in the MMCD, Contract Drawings or Detail Specifications Sections shall be at the following frequencies or as directed by Contract Administrator:

1. Trench Backfilling and Compaction

1.1 Compaction: 1 test / 10 lm / 300mm lift 1.2 Sieve: 1 test / placed material / 50 m³

2. Granular Base

2.1 Compaction: 1 test / 500m² / 100mm depth of granular base

2.2 Sieve: 1 test / placed material / 100 m³

3. Granular Subbase

3.1 Compaction: 1 test/500m² / 0.15m depth of granular subbase

3.2 Sieve: 1 test / placed material / 100 m³

4. Embankment (Subgrade)

4.1 Compaction: 1 test/ 50m² / 0.15m depth of fill 4.2 Sieve: 1 test / placed material / 100 TONNES

5. Asphalt

5.1 Marshall test: 1 test per 250 TONNES placed, min. 1 test / day

ASTM D1559, D3203, C117, C136

5.2 Superpave: 1 test per 250 TONNES placed, min. 1 test / day

CAI-SP2, ASTM D3203, C117, C136

5.3 Cores: 1 per 500 m²/lift 5.4 Continuous asphalt density testing during paving.

6. Subgrade Preparation

6.1 Compaction & Moisture: 1 test / 500 m²

7.Concrete Tests

7.1 Air, Slump & 1 Set Cylinders: 1 test / 10 m³, min. 1 set / day

8. Reclaimed Materials

8.1 Compaction: 1 test/500m² / 0.15m depth of reclaimed materials

1.8 Measurement for Payment

Payment for all work performed under this section will be incidental to payment for work described in other Sections.

1.0 GENERAL Add 1.0.6

The Contractor is responsible for all temporary traffic control on the streets required for completion of the work. The Contractor will be responsible to provide a Traffic Management Plan (TMP) for approval (5) five working days prior to any lane closures taking place. TMP is to be prepared by a professional certified by the American Traffic Safety Services Association.

The TMP shall outline the approach to traffic management, show recognition and minimization of risks indicates signing locations, identify Traffic Control Persons (TCP) stations, show lane shifting and proposed closures.

The Contractor shall ensure safe passage of vehicles, cyclists and pedestrian through the work zone.

Add 1.0.7

Road and Sidewalk Closure Permit is required from Coquitlam for all work affecting pedestrian and traffic flow related to construction. A permit is required for each specific construction interference with pedestrian and traffic flow. The road and sidewalk closure permit form can be obtained for use from the City's website at https://www.coquitlam.ca. The Contractor must follow the approved TMP. Any changes to this TMP must be submitted to City's Traffic Operations for approval.

Add 1.08

Refer to Appendix A - Traffic Management Detail Specifications

1.4 Traffic Control

Delete 1.4.1 and replace with the following

The Contractor shall conduct his operations so as to cause the minimum obstruction and inconvenience to traffic and to places of business and residences adjacent to the Place of Work. No greater quantity of work shall be undertaken at any one time than can be properly conducted with due regard to the rights and interests of the public as may be determined by the Contract Administrator.

The Contractor is to provide at all times safe and convenient means of approach and entrance to adjoining lanes, driveways, buildings and property both for vehicles and pedestrians to the satisfaction of the Contract Administrator. For this purpose, he shall construct and maintain suitable and safe platforms, approaches, structures, bridges, diversions or other works.

Where traffic must cross open trenches, the Contractor shall provide suitable bridges. Where trenches have been backfilled or where road improvements are incomplete the Contractor shall take any steps necessary to prevent potholes or other traffic hazards. Where the Contract Administrator so instructs or where Contract Specifications so require, the Contractor shall provide temporary asphalt patching of such hazards.

Add 1.4.9.3.1 The Contractor, as required by the Contract Administrator and the City, is to supply Construction Zone information signs (stationary), refer to MMCD 01 58 01 for the required identification signage.

The Contractor is responsible for the removal of the signs at the completion of the work.

Delete 1.4.10.1.3 and replace with the following

When workmen or equipment are employed over travelled way over brow of hills, around sharp curves or at other locations where oncoming traffic would not otherwise have adequate warning.

SUPPLEMENTARY		SECTION 01 55 00S
CONTRACT		SS 10
SPECIFICATIONS	TRAFFIC CONTROL, VEHICLE ACCESS AND PARKING	2024

1.5 Measurement for Payment Delete 1.5.1 and replace with the following

Payment for all work performed under this section including submission of Traffic Management Plan (TMP), Traffic Control Persons (TCP) & all temporary traffic signs, devices as required for traffic & pedestrian safety; and all other items described in the Traffic Regulation Section, and all labour, material, equipment and work described under *Appendix A: Traffic Management Detail Specifications* shall be treated as incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Quantities and Prices.

1.0	GENERAL		
1.0.3	Erosion and Sediment Control Supervisor	Add 1.0.3	The Erosion and Sediment Control (ESC) Supervisor is the Qualified Professional who is experienced in implementing ESC Plans and who is responsible for the inspection and monitoring of ESC Facilities to ensure these are installed and maintained in accordance with the ESC Plan, and if necessary, are modified during construction to ensure compliance with the Stream and Drainage System Protection Bylaw No. 4403, 2013.
1.2	Temporary Erosion and Sediment Controls	Delete 1.2.1 and replace with the following	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 a Sediment Control Plan under the City of Coquitlam Stream and Drainage System Protection Bylaw No. 4403, 2013 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 <i>Contractor</i> 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 any 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.
			Provisions must be made to allow safe conveyance of flow during non-working hours. The Contractor is solely responsible for any repairs that may be required following such an event.
			Sweep streets, and clean catch basins, manhole sumps, detention tanks, and maintain siltation controls as often as the <i>Contract Administrator</i> and the City deems necessary.
			Follow all Federal and Provincial regulations and guidelines respecting protection of fish, fish habitat, and watercourses.
		Delete 1.2.2.2 and replace with the following	Do not operate construction equipment in watercourses.
		Add 1.2.2.9	All work must be carried out during favorable and low water conditions.
			Failure of the Contractor to properly address concerns relating to this Section will result in shut-down of the work. No claim will be accepted by the Owner for costs associated with this work shut-down.
		Add 1.2.2.10	Any fill used on this project shall be certified inert and from a source which is confirmed to be free of contaminants.
		Add 1.2.2.11	All work within a watercourse must be undertaken and completed in isolation of all flowing water to maintain downstream water quality and unrestricted flows.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		EN\	SECTION 01 57 01S SS 12 ENVIRONMENTAL PROTECTION 2024	
1.4	Environmental Protection	Add 1.4.3.5	Immediately contain and clean up any leaks and spills of prohibited materials at the <i>Place of Work</i> .	
		Add 1.4.3.6	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. Any spill of reportable quantities must be immediately reported to the Provincial Emergency Program's 24 hour phone line at 1-800-663-3456.	
		Add 1.4.3.7	Immediately notify the <i>Contract Administrator</i> and the City of any leaks or spills of prohibited materials that occur at the <i>Place of Work</i> .	
		Add 1.4.3.8	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 1.4.3.9	All equipment and machinery must be in good working condition (power washed), free of leaks or excess oil and grease. No equipment refueling or servicing shall be undertaken within a minimum of 15 metres of any watercourse or surface water drainage.	
		Add 1.8.2	The work will include cleaning of all catch basins within the work area, or nearby location as affected by the Work and all manholes and/or sewers affected by work done under this contract. All cleaning is to be performed by vacuum truck to the satisfaction of the Contract Administrator and will include off-site disposal of waste material.	
1.9	Archaeological / Historical Resources	Add 1.9	Immediately cease work and inform the <i>Contract Administrator</i> and the City, if any archaeological or historical resources are encountered during construction. Leave these resources in place and do not disturb them in any way.	

SUPPLEMENTARY		SECTION 01 58 01S
CONTRACT		SS 13
SPECIFICATIONS	CONCRETE WALKS, CURBS AND GUTTERS	2024
-		

1.4	Measurement and Payment	Add to Clause 1.4.4	Payment for all work performed under this section will be incidental to payment for work described in other Sections.
		Add to Clause 1.4.5	Payment for all work performed under this section will be incidental to payment for work described in other Sections.
2.1	Materials	Delete 2.1.5.1 and	Hand-formed and hand-placed concrete:
		replace with the following	Slump: 80 mm Air entrainment: 5 to 8%. Maximum aggregate size: 20 mm. Minimum cement content: 335 kg/m3. Minimum 28 day compressive strength: 32 MPa.
		Add 2.1.7	Tactile warning surface tile shall be replaceable cast-in-place style. Truncated domes shall be in square grid pattern with a 5 mm nominal raised height, base diameter of 23 mm and top diameter of 11.5 mm. Dome spacing range shall be between 40 mm $-$ 60 mm.
			Color of the panel shall be Federal Yellow (Y) per US Federal Standard 595B Table IV, Color No. 335.
			Minimum size of the panel shall be 600 mm by 1200 mm.
3.0	EXECUTION		
3.5	Concrete Placement	Delete 3.5.9 and replace with the following	The <i>Contractor</i> is responsible for adjusting all utility manhole frames and valve boxes, belonging to Coquitlam and/or other agencies that are affected by the road works. All adjustments to utilities must be
			completed to the satisfaction of the utility owner. Riser rings will not be accepted.
			be accepted. The <i>Contractor</i> should note that certain utility owners may decide to complete their own adjustments. The <i>Contractor</i> will be required to cooperate with any utility company providing their own

1.0	GENERAL				
1.4	Measurement and Payment	Delete 1.4.1 and replace with the following	Payment for all work performed under this section will be incidental to payment for work described in other Sections.		
2.0	PRODUCTS				
2.7	Granular Pipe Bedding and Surround Material	Add to 2.7.1	All recycled or other extraneous materials shall be approved by Contract Administrator and the City prior to use.		
2.10	Granular Base	Delete 2.10.2			
		Add 2.10.3	All 25 mm minus granular base is to conform to the following gradation specifications:		
			Sieve Designation (mm)	Percent Passing (%)	
			25	100	
			19	80-100	
			12.5	75-90	
			9.5	50-85	
			4.75	35-70	
			2.36	25-50	
			1.18	15-35	
			0.30	5-20	
			0.075	0-5	
		Add 2.10.4	The intention of the Gradation Char size of aggregate in the granular bas is the middle of the shown Range. Tests that show sieve values of Perclow or consistently high in two (2) o considered to be non-conforming.	e. The Target Percentage Passing ent Passing that are consistently	
2.11	Recycled Aggregate Material	Delete 2.11.1 and replace with the following	Aggregates containing recycled material may be utilized if approved by the Contract Administrator and the City. In addition to meeting all other conditions of the specifications, recycled material should not reduce the quality of the construction achievable with quarried materials. Recycled material shall consist only of aggregates, crushed portland cement concrete, or asphalt that is free of impurities.		
2.13	Low Permeability Mineral Soil	Add 2.13	Approved low permeability miner fines (15 to 30% passing 75µm signlasticity clay, free of organics and/or debris.	eve) silty sand or medium to low	

SUPPLEMENTARY CONTRACT SPECIFICATIONS CLEARING AND GRUBBING			SECTION 31 11 01S SS 15 2024	
1.2	Definitions	Add 1.2.5	Trimming of trees, hedges and shrubs, an removal of hedges and shrubs is included Grubbing. Co-ordinate with property ow of a certified arborist when necessary. Go	with Clearing and ners and use the services

Final height of the snag cut will be per approval of the Contract Administrator.

shrubs shall be cleared for the full width of the work, within the construction limits, with the extent of clearing minimized.

It is the Contractor's responsibility to obtain permission from the property owners.

NOTE: Clearing and grubbing does not include removal of grass, topsoil and ditch vegetation as these items are deemed part of trench excavation.

1.4 Measurement and Delete 1.4.1 and Payment for all work performed under this section will be incidental to Payment replace with the following

payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices; and

Includes removal and disposal of all branches, stumps, trees, timbers and vegetation to complete the work as shown on the Contract Drawings or as directed by the Contract Administrator; and

Includes removal and offsite disposal of all roots, vegetation, organic matter, invasive species, stumps and topsoil stripping and disposal that are located within the work area(s).

3.5 Removal and Add 3.5.6 Disposal

The Contractor shall remove all invasive plant species at the work sites and dispose properly on an approved location.

SPECIFICATIONS		SHRUB AND TREE PRESERVATION		2024
1.3	Measurement and Payment	Delete 1.3.1 and replace with the following	Payment for all work performed under this section incidental to payment for work described in other S shown otherwise in the Schedule of Quantities and	ections, unless
2.0	PRODUCTS			
2.1	Materials	Add 2.1.10	Protective Fencing: Posts - Pressure treated wood 1 to be 1.8 m to 2.0m in height at 2.0 m O.C. Sno Coquitlam Approved Products List; Flagging Tape - 4 'Tree Retention Area'.	ow fence as per
3.0	EXECUTION			
3.1	Existing Trees	Add 3.1.7	The <i>Contractor</i> is responsible to minimize damage t are to remain.	o all trees which
		Add 3.1.8	The <i>Contractor</i> will be responsible for all claims and the cost of examination by an Arborist, repair replacement of trees, as required by the Arbori <i>Administrator</i> and the City for tree damage notification was not received from the <i>Contractor</i> assessed based on the International Society of Guidelines. The term shall be for a period of one yet date of Substantial Performance of the <i>Work</i> .	r, removal and st, the <i>Contract</i> where proper Damage will be of Arboriculture
		Add 3.1.9	Place protective fencing/barricades as detailed Standard Detail Drawings COQ-R26 where specified Drawings. <i>Contractor</i> shall maintain fence in good construction.	on the Contract
		Add 3.1.10	When work is to be performed inside fenced areas, take care to avoid damage to existing vegetation. It inside areas of existing vegetation to be retained in	Work to be done
			.1 Removal of isolated trees as directed by Administrator and the City.	by the Contract
			 Selective pruning and tree removal at edg and well-shaped forest edge. 	es to create tidy
			.3 Placing planting soil and planting of trees.	
		Add 3.1.11	Do not park, service or fuel vehicles within the vege areas.	etation retention
3.4	Pruning	Add 3.4.2	Do not cut roots or branches of retained trees with the <i>Contract Administrator</i> and the City.	nout approval of

SUPPLEMENTARY

CONTRACT

END OF SECTION

SECTION 31 11 41S

SUPPLEMENTARYSECTION 32 11 16.1SCONTRACTSS 17SPECIFICATIONSGRANULAR SUBBASE2024

1.4 Measurement and Delete Clause 1.4 and Payment for all work performed under this section including **Payment** replace with supply, placement, and compaction will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices. 2.0 **PRODUCTS** 2.1 **Specified Materials** Delete 2.1.1.1 Select Granular Subbase 2.1.1.2: 75 mm Pit Run Gravel 2.1.1.4: Pit Run Sand 2.1.1.5: Approved Native Material 2.1.1.7: River Sand

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 32 11 23S SS 18 GRANULAR BASE 2024	
1.4	Measurement and Payment	Delete Clause 1.4 and replace with	Payment for all work performed under this section including supply, placement, and compaction will be incidental to payment for work described in other Sections, unless shown otherwise in the Schedule of Quantities and Prices.	
2.0	PRODUCTS		·	
2.1	Granular Base	Add 2.1.1.3	25 mm minus crushed gravel conforming to the gradation specifications under Section 31 05 175 $-2.10.3$.	
			END OF SECTION	

SUPPLEMENTARY CONTRACT SPECIFICATIONS		нот-міх	SECTION 32 12 16S SS 19 ASPHALT CONCRETE PAVING 2024
1.4	Related Work	Add 1.1.8	Roadway Excavation, Embankment & CompactionSection 31 24 13
		Add 1.1.9	Manholes and Catch BasinsSection 33 44 01
1.5	Measurement and Payment	Delete Clause 1.5.1 and replace with	Payment for asphaltic concrete paving includes all construction joint preparation, tack coat, supply and placing of the asphaltic concrete, compaction and cleaning frames, covers and lids of castings affected, all testing as described in Supplementary General Conditions – Clause 4.12.2(a), all surface restoration as specified under Section 31 23 01 – Sub-section 3.6, all temporary and permanent pavement markings restoration as specified in Section 32 17 23 and all other work and materials necessary to complete installation as shown on Contract Drawings and specified under this Section. Payment for asphaltic concrete paving is incidental to work described in other section unless otherwise specified in the Schedule of Quantities and Prices.
2.2	Mix Design	2.2.3.2	Change Marshall Stability for both lower and upper course to "10 kN min"
3.7	Joints	Delete Clause 3.7.5 and replace with	Construct butt joints as directed in the field by the Contrac Administrator.
			END OF SECTION

SUPPLEMENTARY
CONTRACT
SS 20
SPECIFICATIONS
PAINTED PAVEMENT MARKINGS
SECTION 32 17 23S

1.5 Measurement and Payment Delete Clause 1.5 and replace with

Payment for all work performed under this section will be incidental to work described in other sections.

CONTRACT SPECIFICATIONS		TOP	SOIL AND FINISH GRADING 2024
1.0	GENERAL		
1.1	Related Work	Add 1.1.6	Shrubs & Tree PreservationSection 31 11 41
1.4 Measurement and Payment		Delete 1.4.1 and replace with	Payment for growing medium and imported topsoil is incidental work described in other sections.
3.0	EXECUTION		
3.4	Placing Growing Medium	Add 3.4.6	Scarify soil, feather grades and remove noxious weeds from the edg of tree preservation areas.
			END OF SECTIO

SECTION 32 91 21S

SUPPLEMENTARY

SUPPLEMENTARY CONTRACT		CONTRACT		CODDING	SECTION 32 92 23S SS 22 2024
SPECIFIC	CATIONS		SODDING		
1.0 G	ENERAL				
1.8	Measurement and Payment	Add to 1.8.1	Payment is incidental to work describe Contractor is responsible to ensure that the and responsible to coordinate with proper	ne sod is regularly watered	
3.0	EXECUTION				
3.2	Sodding	Delete 3.2.5 and replace with	Lay new sod smooth and flush with adjoin and top surface of curbs unless shown oth Drawings. Ensure there is a full roll width adjoining surfaces. Small cut pieces from a accepted.	erwise on Contract between the new sod and	
3.5	Conditions for Total Performance	Add 3.5.1.8	The prime consideration for acceptance or be the establishment of a dense, uniform of all seeded areas.		
				END OF CECTION	

1.0 GE	NERAL		
1.2	References	Delete 1.2.2.1 and replace with the following	National Association of Sewer Service Companies' (NASSCO's) Pipeline Assessment and Certification Program, version 6.x including addendums, or latest version.
1.3	Submission of Certification	Delete 1.3.1 and replace with the following	Submit copy of the CCTV operator's current NAASCO certification certificate to the Contract Administrator at least one week prior to the start of the CCTV inspection operations.
1.4	Work Regulations	Add 1.4.3	The Contractor shall provide the City with a written confined space entry procedure and a written confined space rescue procedure before commencement of any work at any of the construction project sites.
1.5	Scheduling of Work	Add 1.5.3	The Contractor shall contact the <i>Contract Administrator</i> at the end of each day, stating the location of work and type of work to be undertaken the following day.
		Add 1.5.4	The Contractor shall be responsible for notifying residents prior to accessing easements and rights of way adjacent to private property. All permission to access private property shall be obtained from the resident(s) prior to accessing private property at no cost to the City.
1.6	Measurement for Payment	Delete 1.6 and replace with the following	Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Prices and Quantities.
2.0	PRODUCTS		
2.1	Equipment	Delete 2.1.4 and replace with the following	The individual digital video playback files to be of MPEG file format.
3.0	EXECUTION	Add 2.1.5	The digital data file delivered to the City to be in PACP standard database file format version 6.x or latest.
3.1	CCTV Inspection	Delete 3.1.1 and replace with the following	CCTV operator to be certified by NASSCO (PACP/MACP/LACP).
		Delete 3.1.2 and replace with the following	NASSCO certified software must be used to produce inspection report and the data will be submitted in the PACP standardized database format. The review of this statement will be part of the evaluation of the tender. Submission to satisfy all of the specifications and report submissions per NASSCO's PACP (MACP/LACP) will be used as a benchmark for subsequent inspection report submission.
		Delete 3.1.4 and replace with the following	Flow in the pipeline not to exceed approximately ¼ of the pipe diameter. Notify Contract Administrator of excessive flows, video using flow reduction method per 3.11 of this Section.
		Delete 3.1.11 and replace with the following	Note condition of pipe joints at manhole walls at the beginning and end of each pipeline; At the beginning of each pipeline or where surface wear of the pipe changes, pan to the invert and any direction as needed to report and record surface wear condition of the pipe using PACP (MACP/LACP) codes; Fill under remarks the observations if no surface wear observed due to good condition of pipe or unable to determine stating reason.

SUPPLEMENTARY CONTRACT SPECIFICATIONS		CCTV I	SECTION 33 01 30.1S SS 24 INSPECTION OF PIPELINES 2024
		Delete 3.1.14 and replace with the following	Stop camera at each defect, change of condition of pipe and service connection to record defect in accordance with PACP (MACP/LACP) codes.
		Delete 3.1.15 and replace with the following	Add PACP (MAC/LACP) code overlay to digital video at defects or connections in addition to continuously displayed data.
		Add 3.1.19	The inspection measurement and reporting units must be in metric system.
3.3	Site Coding Sheets	Delete 3.3.1 and replace with the following	Each pipeline length to be recorded according to the PACP. Any variation from the manual to be noted in the survey report.
		3	END OF SECTION

SPECIFICATIONS		CLE	ANING OF SEWERS 2024
1.0	GENERAL		
1.3	Work Regulations	Add 1.3.2	Provide written confirmation to the Contract Administrator that workers have knowledge of confined space entry practices and of equipment required for confined space entry.
1.4	Scheduling of Work	Delete 1.4.3 and replace with the following	Notify Contract Administrator of the location of cleaning <i>3 days</i> before start of work.
		Add 1.4.5	The Contractor shall be responsible for notifying residents prior to accessing easements and rights of way adjacent to private property. All permission to access private property shall be obtained from the resident(s) prior to accessing private property at no cost to the City.
1.5	Measurement for Payment	Delete 1.5 and replace with the following	1.5.1 Payment for all work performed under this Section will be incidental to payment for work described in other Sections unless shown otherwise in the Schedule of Prices and Quantities.
3.0	EXECUTION		
3.1	Sewer Cleaning	Add 3.1.6	Where an intruding service connection precludes passing of the camera during CCTV inspection, the Contractor shall notify the Contract Administrator who may require the intruding portion to be removed without damage to the system.

SUPPLEMENTARY

CONTRACT

3.2

Water Supply

Add to 3.2.1

END OF SECTION

Arrangement for hydrant use is to be made by the Contractor. City may require supervision of the first hydrant set-up. The Contractor shall supply the appropriate backflow prevention devices and hose. The Contractor shall be responsible in providing the hydrant number, location and duration of usage to the Contract Administrator, 3 days

prior to obtaining the Hydrant Use Permit.

SECTION 33 01 30.2S

SS 25

1.0 GENERAL

1.6 Measurement and Payment

Delete 1.6.1 and replace

Delete 1.6.2 and replace with

Payment for sanitary sewer will be made separately for various sections of sanitary sewer consistent with pipe materials, diameters and backfill requirements as shown on the Contract Drawings, per COQ-G4 and described under individual payment items in the Schedule of Quantities.

The lump sum payment for the point repair of sanitary sewers includes all labour, material and equipment needed for traffic control, environmental protection, cleaning, asphalt and concrete saw cutting, utility pole support, disposal of pavement or concrete, trench excavation, disposal of surplus excavated material, dewatering, shoring, bracing and sheeting, removal and disposal of existing pipes and fittings regardless of material, supply and installation of all pipe, pvc repair couplers, shear band couplers, fittings and related materials, tie-ins, re connection of services, bedding and all import backfill material, granular base, granular subbase, cleaning and flushing, testing (if applicable), all surface restoration under Section 31 23 01 – 3.6 including permanent pavement restoration, sidewalks, driveway crossings, pathways, ramps, curbs, gutters, pavement markings, topsoil and seeding or sod, landscaping, fencing, gates, retaining walls and all other disturbed areas and features.

Payment includes protecting the existing pavement outside of the utility trench. Repair and replacement of damaged asphalt outside of the utility trench will be at the Contractor's cost.

Payment includes by-pass pumping and is to include all pumps, labour and materials required to facilitate the work.

Materials removed from within the right of way are the property of the private property owner. Discard materials obtained from within the right of way and from adjacent private properties that are not suitable for reuse or not wanted by private owners at an approved dump site.

Payment includes pre and post construction CCTV and cleaning as described in Section 30 01 30.1S and 33 01 30.2S and will be incidental to the work as described above.

NOTE: PAYMENT FOR ANY SANITARY SEWER WORKS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY'S SATISFACTION.

2.0 PRODUCTS

2.5 Granular Pipe Bedding and Surround Material

Add 2.5.3

Pipe bedding shall be 19 mm clear crushed rock or as approved by the Contract Administrator. Surround material above the springline within the pipe zone may be Type 2.

3.0 EXECUTION

3.8 Connections to Existing Mainline Pipes

Delete 3.8.1 and replace with

Connections with two sizes smaller or less to existing mainlines shall be made by removal of the section of the main and replacement with a manufactured PVC wye complete with stubs and double hub PVC couplings for PVC mains and approved shear band couplings for other mainline materials.

The contractor shall video inspect all connections to existing mains following completion of installation.

SUPPLEMENTARY		SECTION 33 40 01S
CONTRACT		SS 27
SPECIFICATIONS	STORM SEWERS	2024

1.0	GENERAL		
1.6	Measurement and Payment	Delete 1.6.1 and replace	Payment for storm sewer will be made separately for various sections of storm sewer consistent with pipe materials, diameters and backfill requirements shown on the Contract Drawings and described under individual payment items in the Schedule of Quantities.
		Delete 1.6.2 and replace with	The lump sum payment for the point repair of storm sewers includes all labour, material and equipment needed for traffic control, environmental protection, asphalt and concrete saw cutting, utility pole support, disposal of pavement or concrete, trench excavation, disposal of surplus excavated material, dewatering, shoring, bracing and sheeting, removal and disposal of existing pipes and fittings regardless of material, supply and installation of all pipe, pvc repair couplers, shear band couplers, fittings and related materials, tie-ins, re connection of services, bedding and all import backfill material, granular base, granular subbase, cleaning and flushing, testing (if applicable), all surface restoration under Section 31 23 01 – 3.6 including permanent pavement restoration, sidewalks, driveway crossings, pathways, ramps, curbs, gutters, pavement markings, topsoil and seeding or sod, landscaping, fencing, gates, retaining walls and all other disturbed areas and features.
			Payment includes by-pass pumping and is to include all pumps, labour and materials required to facilitate the work. Payment for the by-pass pumping will be incidental.
			Payment includes pre and post construction CCTV and cleaning as described in Section 30 01 30.1S and 33 01 30.2S and will be incidental to the work as described above.
			NOTE: PAYMENT FOR ANY STORM SEWER WORKS WILL NOT BE MADE UNTIL RESTORATION WORK IS COMPLETE TO CITY'S SATISFACTION.
2.0	PRODUCTS		
2.1	Concrete Pipe	Delete 2.1.6 and replace with	Pre-Test in accordance with Section 33 30 01 Clause 2.1.4.
2.6	Service Connections	2.6.1	Replace 100 mm minimum diameter with PVC SDR 28 $\underline{\textbf{150 mm}}$ minimum diameter.
		Delete 2.6.8.1 and replace with	Connections to HDPE main pipe to be made with a fusion machine.
		Delete 2.6.8.2 and replace with	Connections to ribbed PVC pipe to be made with a manufactured wye fitting where wye locations are known in advance. For connections to ribbed PVC mainline pipe larger than 450 mm an insertable tee for ribbed PVC pipe is permitted for connections more than two sizes smaller than mainline pipe. When an insertable tee is used, hole cut into mainline pipe to cut as few ribs as possible.
		Add 2.6.11	Insertable tee fitting shall have a rubber collar which inserts into the mainline pipe to form a tight seal and shall have stainless steel band to secure the tee insert. The tee insert shall be a standard bell end with depth control lugs
2.9	Granular Pipe Bedding and Surround Material	Add 2.9.3	Pipe bedding shall be 19 mm clear crushed rock or as approved by the Contract Administrator. Surround material above the springline within the pipe zone may be Type 2.
3.0	EXECUTION		

SUPPLEMENTARY CONTRACT SPECIFICATIONS			SECTION 33 40 01S SS 28 STORM SEWERS 2024	
3.6	Pipe Installation	Add 3.6.14	Test pipe in accordance with Section 33 30 01 Clause 3	3.12.
3.8	Connections to Existing Mainline Pipes	Add 3.8.5	Connections to existing mainlines 450 mm and smalle by removal of the section of the main and replace manufactured PVC wye complete with stubs and do couplings for PVC mains and approved shear band coupline materials.	cement with a puble hub PVC
			Connections to existing concrete mainline and mainli 450 mm shall be made in accordance with this secti made using a core cutter.	ū
			The contractor shall video inspect all connections to e following completion of installation	xisting mains
			•	ND OF SECTION

Appendix A Traffic Management Detail Specifications

Traffic Management Detail	ĺ
Specifications	
Contract 85245	
	-

TRAFFIC MANAGEMENT

TMP 1

1.0 GENERAL

- .1 This Traffic Management detail specification refers to the Contractor's specific plans to identify project traffic risks affecting the *Work*, provide Traffic Control Plans, and to implement the traffic control for the safe passage of vehicles and pedestrian through the work zone.
- 1.1 Related Works
- .1 Traffic Control, Vehicle Access and Parking MMCD Section 01 55 00S.
- 1.2 References
- .1 WorkSafe BC, Occupational Health and Safety (OHS) Regulation, Section 18 Traffic Control.
- .2 B.C. Ministry of Transportation and Infrastructure (MOTI) Traffic Management Manual for Work on Roadways.
- 1.3 Project Requirements
- .1 A Road and Sidewalk Closure Permit is required by Coquitlam for all work affecting traffic flow related to construction. An individual permit is required for each specific construction interference with traffic flow on all Arterial and Collector Roads. Area based general road closure permits will be approved for all single lane alternating work occurring on local roads with accompanying detailed schedule. The Road and Sidewalk Closure Permit Request form is attached as Appendix 1 to this document. A digital copy of the Road and Sidewalk Closure Permit form can be obtained for use during the contract from the City's website at Road & Sidewalk Closure Permit Application

A Road and Sidewalk Closure Permit form application must be submitted to City's Traffic Operation Division 5 working days prior to start of work.

1.4 Measurement and Payment .1 For this Contract, all work associated with Traffic Management Plan (TMP) and Traffic Control will be as shown in the Schedule of Quantities and Prices.

2.0 PRODUCTS

- 2.1 Traffic Management Plan
- .1 The Contractor is required to assign a Traffic Manager for the Contract with the responsibility of preparing the Traffic Management Plan and the Traffic Control Plans, as well as the responsibility for continuing implementation of traffic control for the Work.
- .2 The Traffic Management Plan (TMP) will consist of the following components:
 - .1 Category identification through risks and project category assessment as per MOTI Traffic Management Manual for Work on Roadways;
 - .2 Traffic Control Plans for individual stages of the construction;

- .3 Incident Management Plan for the response to an unplanned event and recording of incident information;
- .4 Category 3 TMP must be signed and sealed by a qualified Professional Engineer.
- .3 Submission of the TMP is to be made to the *Contract Administrator* within five (5) days of the *Notice of Award* of the *Contract*, and must be approved by the *Contract Administrator* prior to start of the *Work*.
- .4 Review of the TMP will be performed by the Contract Administrator. Comments for revisions to the TMP will be returned to the *Traffic Manager* for implementations.
- .5 The Contractor shall comply with all the requirements of applicable laws, rules, regulations, codes and orders of the municipal and other appropriate authorities concerned with work on streets or highways and shall post proper notices and/or signals, and provide necessary barriers, guards, lights, flagmen or watchmen as may be necessary for proper maintenance of traffic and protection of persons and property from injury or damage. All costs involved in respect to the above requirements will be deemed to be included in the Contract Price.
- .6 The Contractor, during the progress of the work, shall make adequate provision to accommodate the normal traffic along streets and highways immediately adjacent to or crossing the work so as to cause the minimum of inconvenience to the general public.
- .7 The Contractor is required to maintain local traffic and driveway access during all stages of construction. This includes maintaining a 1.5m width walkway or pathway through the construction site for pedestrians.
- .8 Where existing streets or roads are not available as detours, all traffic shall be permitted to pass through the work with as little inconvenience and delay as possible unless otherwise provided or authorized by the Contract Administrator. If half the street only is under improvement, the other half shall be conditioned and maintained as detour.
- 2.2 Incident Management and Reporting
- .1 The Contractor shall facilitate incident response vehicles and staff and move traffic safely and expeditiously through or around an incident on site and provide assistance to emergency response personnel as required. An incident includes, but is not limited to, motor vehicle accidents, emergency road repairs, disabled vehicles, and debris on the road. The immediate response to an emergency shall by necessity make use of available devices and equipment.
- .2 If an incident occurs on site, the Contractor will be required to submit a report to the Contract Administrator documenting details

Traffic Management Detail
Specifications
Contract No. 85425

TRAFFIC MANAGEMENT

TMP 3

of the incident including event, location, date, time, action taken, duration and restoration of site.

2.3 Traffic Control Plans

.1 The Contractor shall designate a qualified Traffic Control Supervisor for the works, per the requirements of WCB regulations Section 18.

The designated Traffic Control Supervisor may be the same individual that is designated as the Traffic Manager, or may be a separate individual qualified for the responsibilities of this function.

- .2 The Contractor shall prepare weekly the anticipated traffic control activities, locations, and durations for the upcoming week.
- .3 Permissible delays shall only be considered outside Peak Hours.Permissible delays are categorized as follows:
 - a) Minor Delays Less than two (2) minutes in duration; for occasional interruption due to construction activities. These delays shall be coordinated with available breaks in the traffic flow.
 - Major Delays Maximum five (5) minutes in duration; for occasional interruption of traffic for construction activities if traffic volumes permit.
- .4 The Contractor is responsible for ensuring that the flow of traffic is unimpeded by construction-related activities.

3.0 EXECUTION

3.1 Traffic Control Plan

- .1 A copy of the approved <u>current</u> Traffic Plan and Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent as well as the person/company responsible for the traffic control implementation.
- .2 Failure to produce a valid approved Traffic Plan on site, or having work not follow the Traffic Control Plan will result in immediate shut-down of the work. The Contractor will be required to safely restore facility conditions to allow traffic flow at their expense. The Contractor must take all steps to acquire an approved Traffic control Plan before work can re-start on site. No claim will be accepted by the Owner for costs associated with this work shut-down.

3.2 Traffic Control Personnel& Equipment

1 The Contractor shall supply all necessary traffic control devices required to perform traffic control services for the project. Signs and traffic control devices not applying to existing conditions shall be removed. Where operations are carried out in stages, only those traffic control devices that apply to the current stage are to be left in place.

	c Management Detail			
Specifications Contract No. 85425		TRAFFIC MANAGEMENT TMP		
		.2 There must be sufficient Traffic Control Persons (TCPs) on site to appropriately and safely direct traffic in all sections of the Work.		
3.3	Signage	Supply, installation, maintenance and removal of all works-related signs shall be the responsibility of the Contractor. The location and type of easign shall be indicated on the approved Traffic Control Plan, for each stoof the works.		
		Traffic control signs and devices must be positioned and used as specifie in the Traffic Control Plan and signs and devices must be located so as to allow traffic to move by or through the work area in a controlled manner and, if necessary, to come to a controlled stop with due regard for the prevailing weather and road conditions.		
		Signs shall be checked daily for legibility, damage, suitability and location Signs and delineators shall be cleaned as frequently as necessary to ensure full legibility and reflectance.		
3.4	Detours	Any proposed detours must be approved by the Contract Administrator and conducted in accordance with the approved Traffic Plan and the Traffic Control Manual for Work on Roadways.		
3.5	Abrupt Changes in Surface Elevations	The Contractor shall minimize any abrupt changes in roadway elevation left exposed to traffic during both working and non-working hours.		
		A wedge of asphalt must be used as a transition to vertical differences in travelled areas and have a slope of 4:1 or less.		
3.6	Cyclist and Pedestrian Access	The Contractor shall make provision for pedestrians, wheel chairs and bicycles to have safe access across the work zone at all times. If this cannot be readily accommodated, then acceptable detours and appropriate signs shall be provided.		
3.7	Temporary Pavement Markings	The Contractor shall be responsible for the application and removal of a temporary pavement markings and reflective devices.		
		All temporary markings must be removed after installation of permanent markings.		
4.0	TRAFFIC RESTRICTIONS			
4.1	Road and Sidewalk Closure Permits	.1 Minimum of one lane of traffic for each direction (Arterial & Collector Roads) must be maintained at all times during any allowed lane closure times unless otherwise specified. Minimum SLAT for local roads.		
		.2 A Road and Sidewalk Closure Permit is required for each instance of closure and will be valid for a maximum period of one (1) week and, if still necessary, re-submittal of a Road and Sidewalk		

Closure Request is required. The permit fee is waived on this project.

A copy of the approved Road and Sidewalk Closure Permit must be held on site by both the Site Superintendent and the person/company responsible for the traffic control implementation.

- .3 Total Road Closure Is Not Permitted
- .4 Detours will only be permitted as approved by the Contract Administrator and must have a complete Traffic Control Plan indicating detour route, signing, and duration. Detours will not be allowed without sufficient lead time for commercial and retail operation to react appropriately to detour information provided to them.
- 4.2 Lane Closure Restrictions
- .1 For each of the road sections affected:
 - Road and Sidewalk Closures will be reviewed for appropriateness during the allowable hours of work.
 - Minimum single lane traffic is required at all times
 - Access to properties to be maintained
 - Sufficient Traffic Control Persons are required for each Road and Sidewalk Closure (or any work activities), <u>including side</u> <u>street intersections</u>, to safely guide traffic through the work site
- 4.3 Hours of Work

The hours of work shall be from **0700 h** to **1900 h** inclusive Monday to Friday and **0900 h** to **1800 h** inclusive Saturdays. The Contractor must schedule his work within these hours or obtain written authorization from the Contract Administrator to vary said hours.

5.0 CONSTRUCTION OPERATIONS

- 5.1 Truck Routes
- .1 The Contractor is restricted to the City's designated Truck Routes. The current Truck Route Map is available on the City's website at www.coquitlam.ca and can be found under Residents, Transit & Transportation, Trucking Routes.
- 5.2 Road Specific Considerations
- .1 Ensure that Traffic Management Plan accommodates businesses and residences during construction activities.
- 5.3 Work stoppage due to traffic

The City will not control or direct traffic control activities of the Contractor, but may require an immediate stop to any work where, in the sole opinion of the Contract Administrator, the provided traffic management plan is ineffective.

Traffic Management Detail		
Specifications		
Contract No. 85425	TRAFFIC MANAGEMENT	TMP 6

5.4 Construction Activity and Signage

The Contractor will be responsible to place other construction information signs as required to inform the public of construction activities, and ensure safe travel through the work site.

TRAFFIC MANAGEMENT

TMP 7

APPENDIX 1



City of Coquitlam

Road and Sidewalk Closure Permit Request

Traffic Operations Division

3000 Guildford Way, Coquitlam BC V3B 7N2 Phone: 604-927-6250 Fax: 604-927-6255 Email: trafficoperations@coquitlam.ca

Submit to the Traffic Operations	Division a minimum of 5 business days prior to the intended dosure	date.
Permit Fee - \$150 for initial perm	nit and \$75 for subsequent permits (same site).	
Payment Methods – After review,	and if approved, payment options will be emailed to the applicant.	
Application Date:	City Project or Film Permit Number (if applicable):	85245
Contact Information		
Company Name:		
Applicant Name:		
Name of Contractor doing work	for Company/Applicant:	
Phone:	Fax:	
24 Hour Emergency Phone:	Email:	
Location, date and time, and	traffic control plan information	
☐ Curb Lane ☐ Right Turn Land ☐ Single Lane Alternating Traffice Road/Street Name:	k all that apply): Direction: □ Northbound □ Southbound □ Eastb e □ Centre Lane □ Left Turn Lane □ Cycling Lane □ Sidewalk : □ Full Closure	
Date & Time Information:	Dates: Starting En	nding
	Hours: Starting Er	-
_	-	nding
Purpose:		
Company regarding disruptions. Will this closure disrupt: Garbage	ites or Stops? ☐ Yes ☐ No If yes, the Applicant will need to contact Contact information is on page 2. e/Recycling Routes or Pick Up? ☐ Yes ☐ No If yes, the Applicant w ty's Environmental Services Group. Contact information is on page 2.	il need to assist the

These supplementary Specifications must be read in conjunction with the Master Municipal Specifications contained in the Master Municipal Construction Documents (Platinum), Volume II, 2009.

schedule see coquitlam.ca/trashtalk.

Traffic Management Detail Specifications Contract No. 85425

TRAFFIC MANAGEMENT

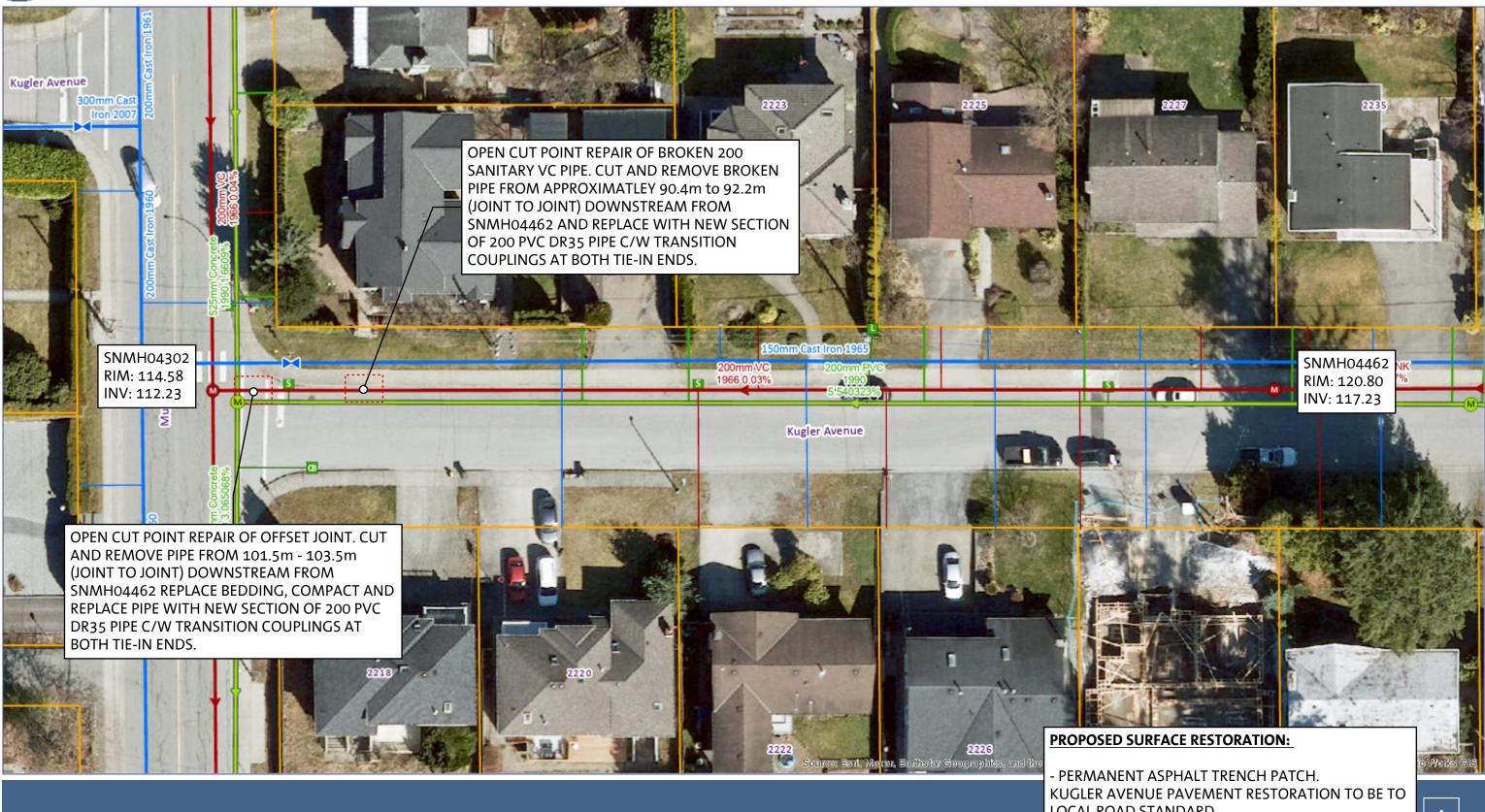
TMP 8

Traffic Control Plan*: (a) Traffic Management Manual for Work on Roadways Figure Number, or (b) A Traffic Control Plan (attach separately) indicating signage, taper lengths, direction of traffic, work area, and north arrow					
Traffic control persons (flag pe	ersons) on duty? 🗆 Yes	□ No If yes, spec	ify how many:		
*Important Notice: All operations standards for work on roadways.	within the road right-of-wa	y must comply with	Worksafe BC regulations and BC Ministry of Transportation		
Application Checklist					
☐ Permit Fee					
☐ Prime Contractor Designati	on Letter				
☐ City of Coquitlam Certificat	e of Insurance				
☐ Traffic Control Plan or Traff	ic Management Manual	for Work on Roady	ways Figure Number		
☐ Coast Mountain Bus Compa regarding impact to bus rou		4 Email: special.e	vents@coastmountainbus.com) contacted		
☐ City of Coquitlam Environm regarding impact to garbag			0 Email: wastereduction@coquitlam.ca_contacted		
all claims, actions, or expense	s whatsoever or by whon e Permit. I further agree	nsoever brought a to accept respons	mnify and save harmless the City against any and gainst the City by the reason of the City granting us ibility to ensure proper situation control and street		
Date	Applicant Sign	nature			
Office Use Only PERMIT S	STATUS				
☐ Permit Fee	☐ Prime Contractor	Letter	☐ Certificate of Insurance		
☐ Traffic Control Plan	☐ Impact to bus ser	rvice	☐ Impact garbage and recycling collection		
☐ Request is denied for the following reason(s):					
☐ Request is approved with	the following change	e(s):			
☐ Request is approved as	submitted				
Date	Traffic Techn	ologist or Designat	e		

Appendix B - Location Maps

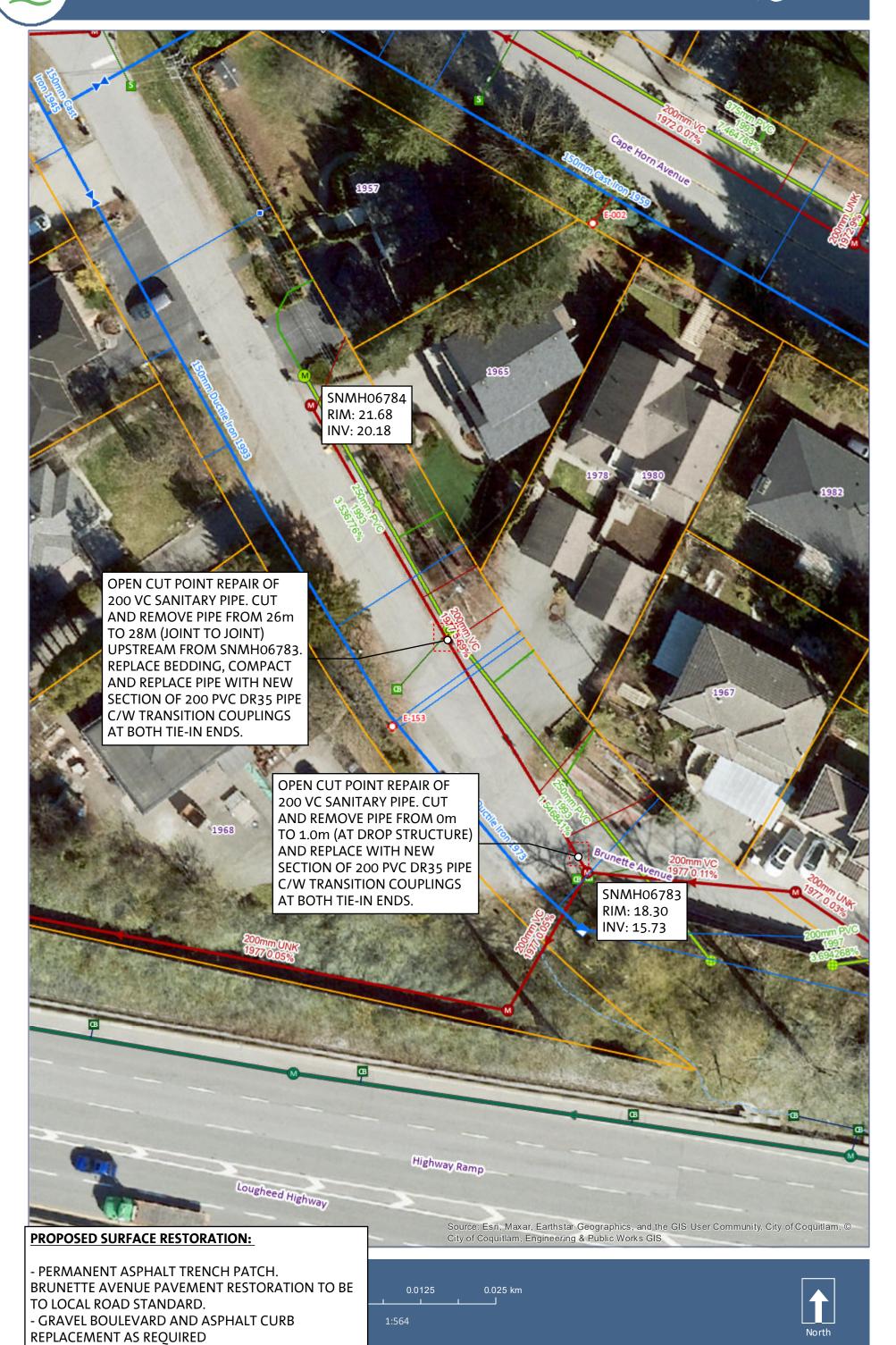


Coouitlam

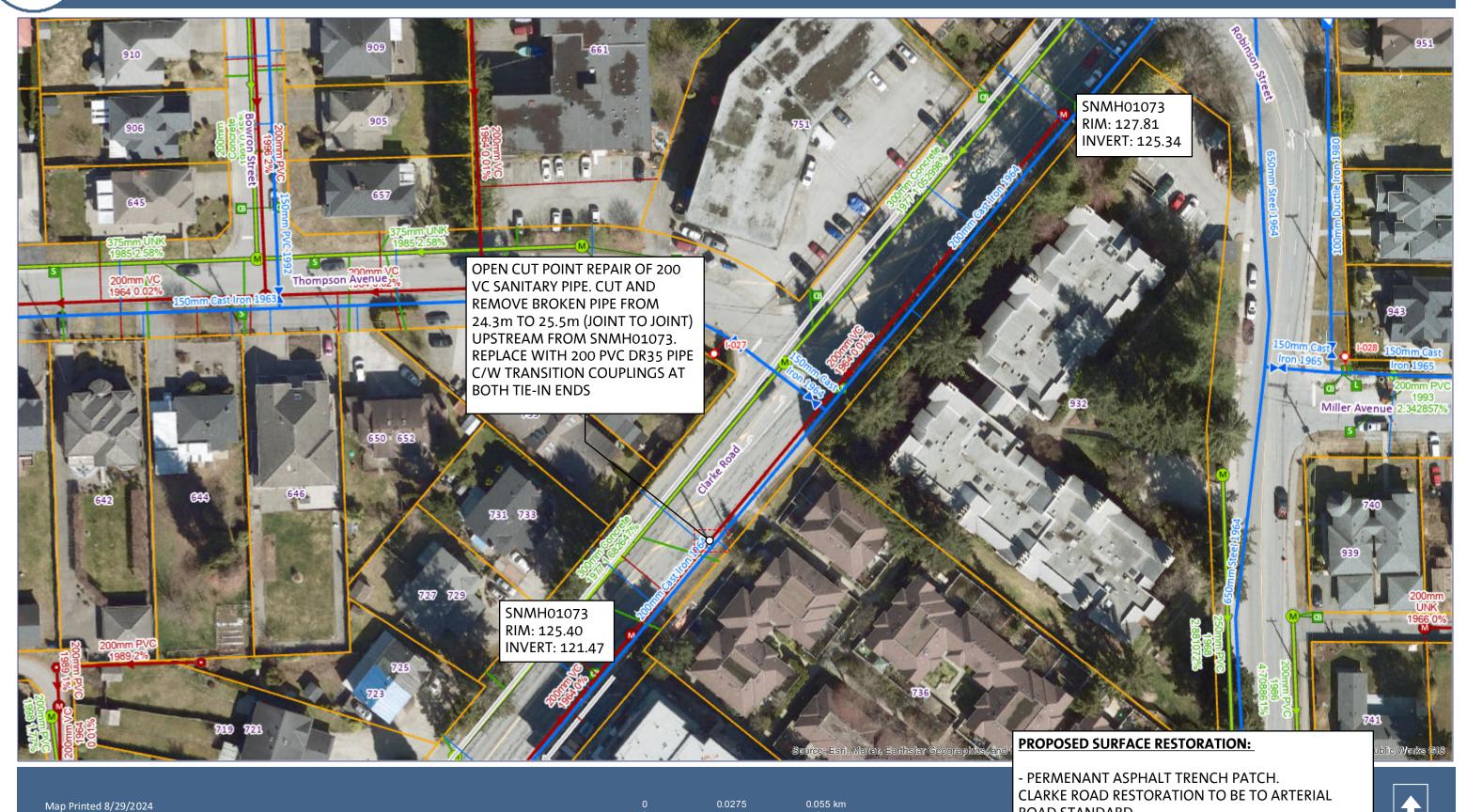




Coouitlam





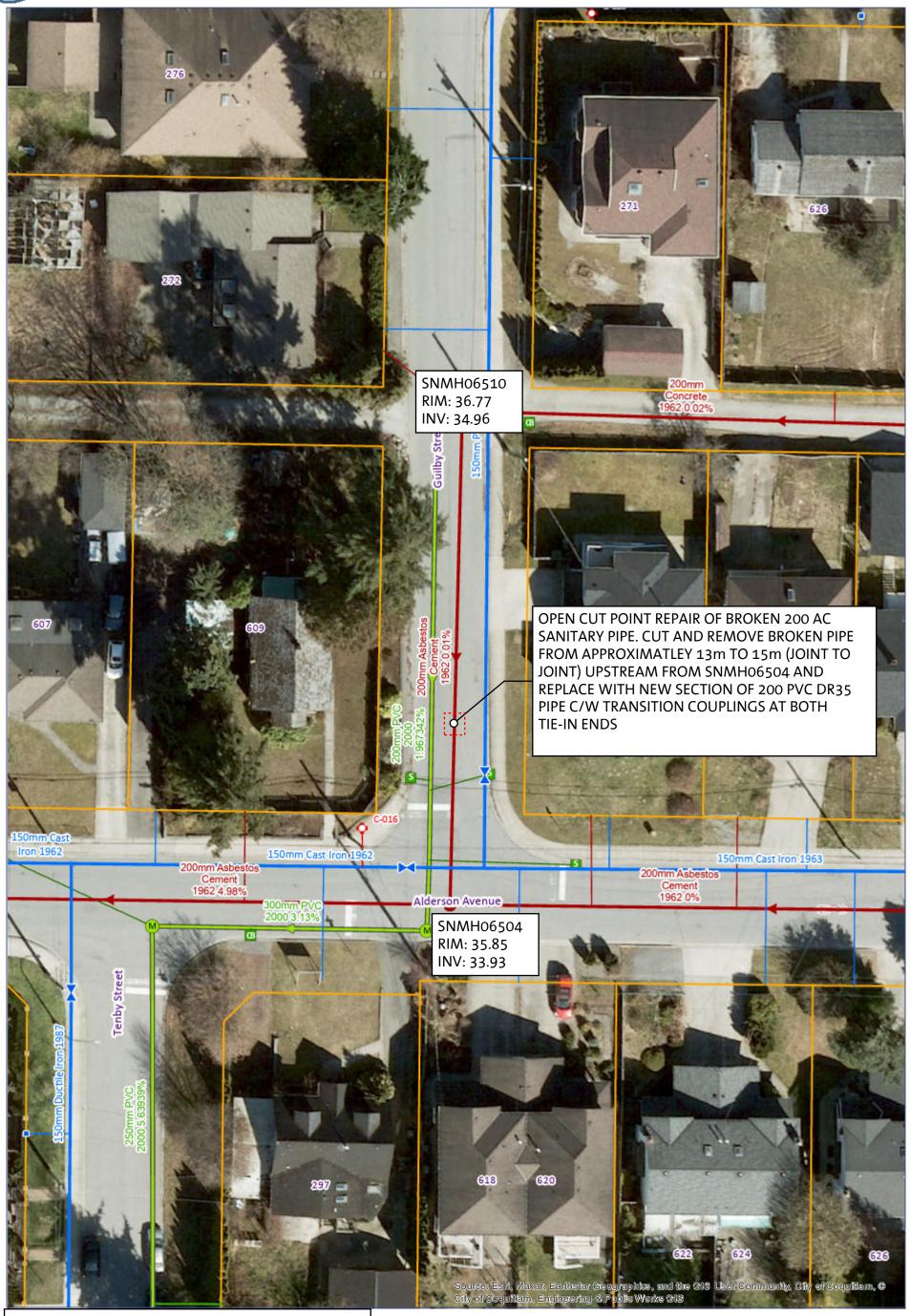


1:1,128

ROAD STANDARD.

RESTORATION AS REQUIRED

- CONCRETE SIDEWALK C/W CURB AND GUTTER



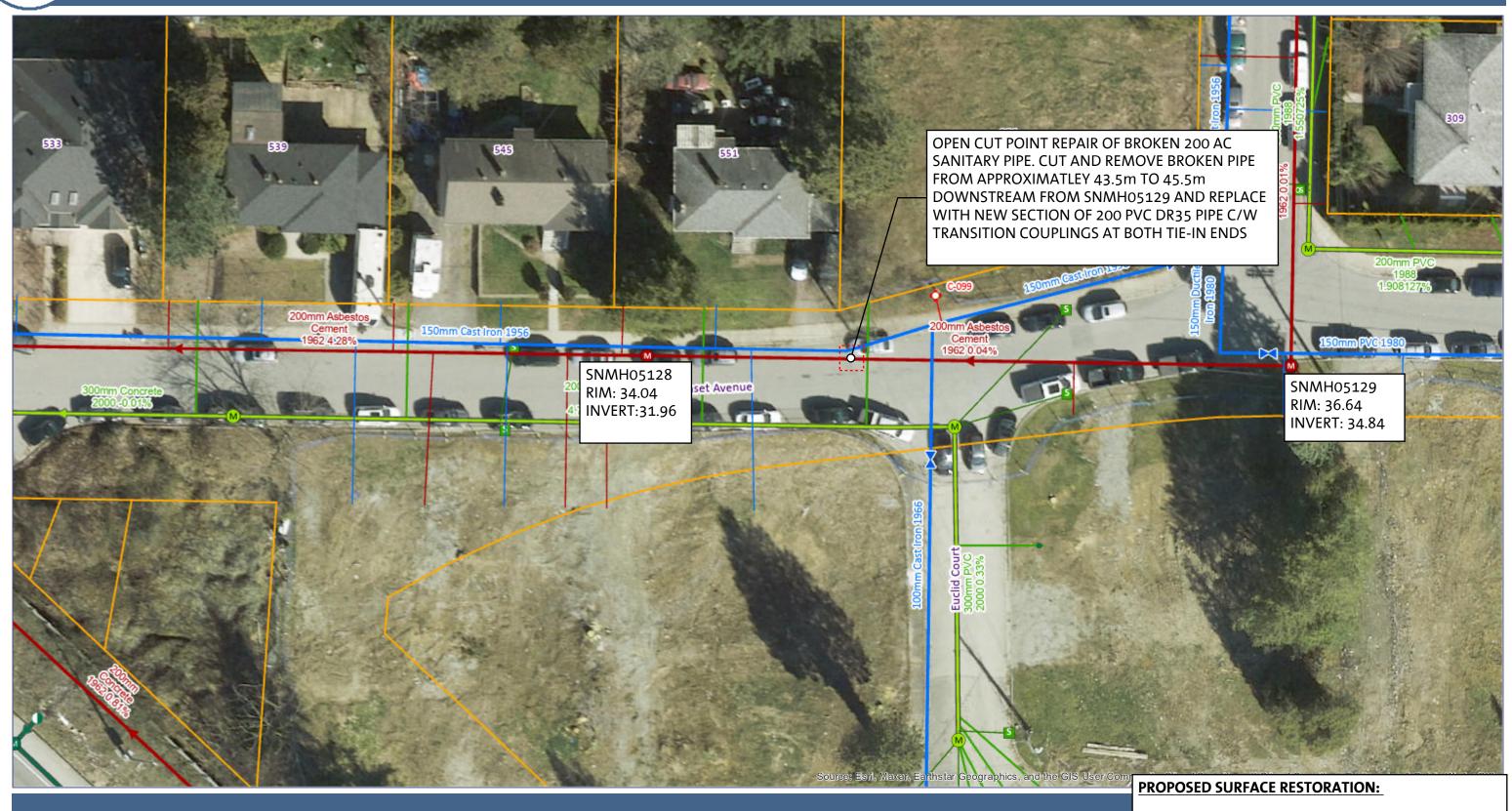
PROPOSED SURFACE RESTORATION:

- PERMANENT ASPHALT TRENCH PATCH.
GUILBY STREET PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.







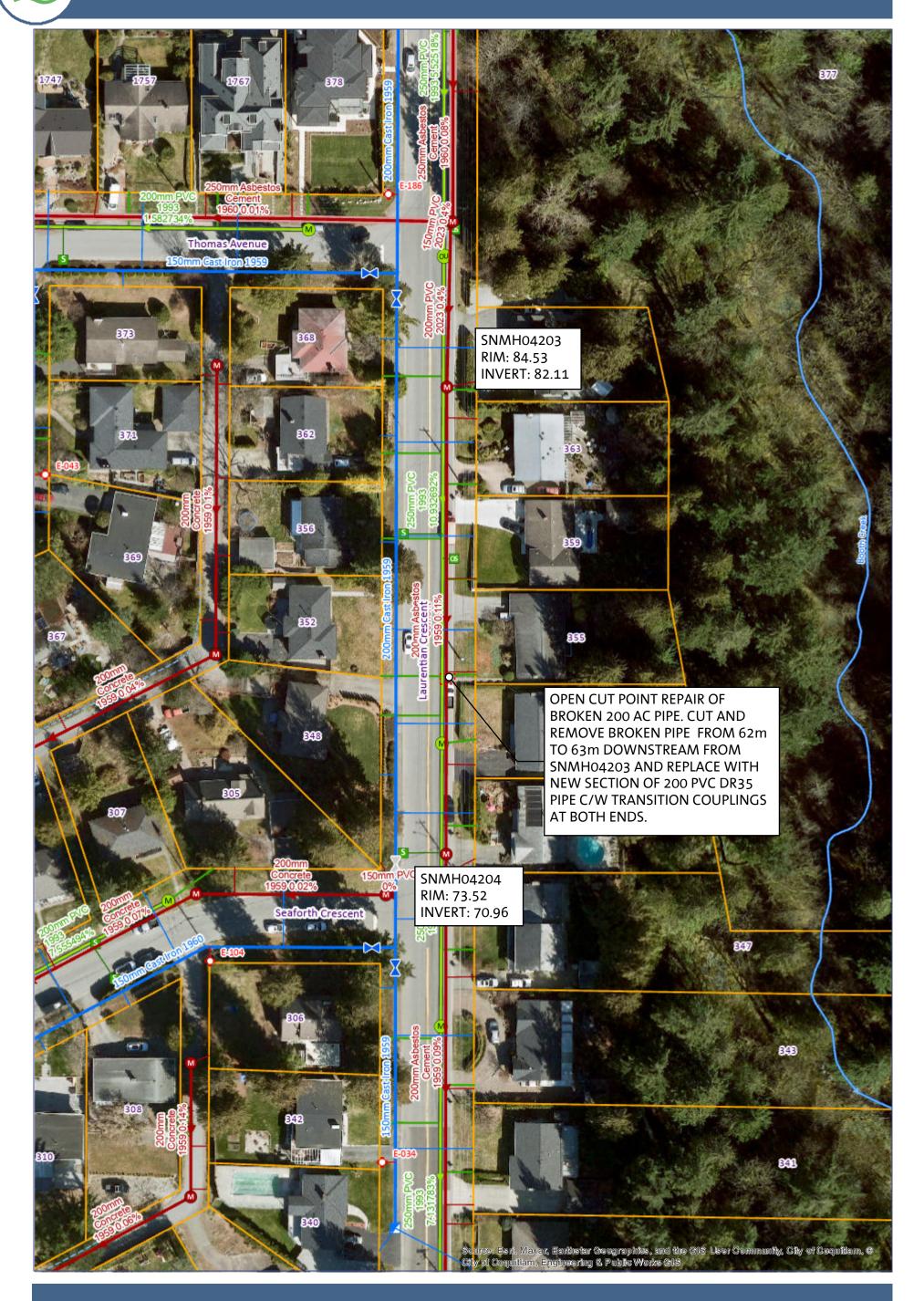


Map Printed 8/29/2024

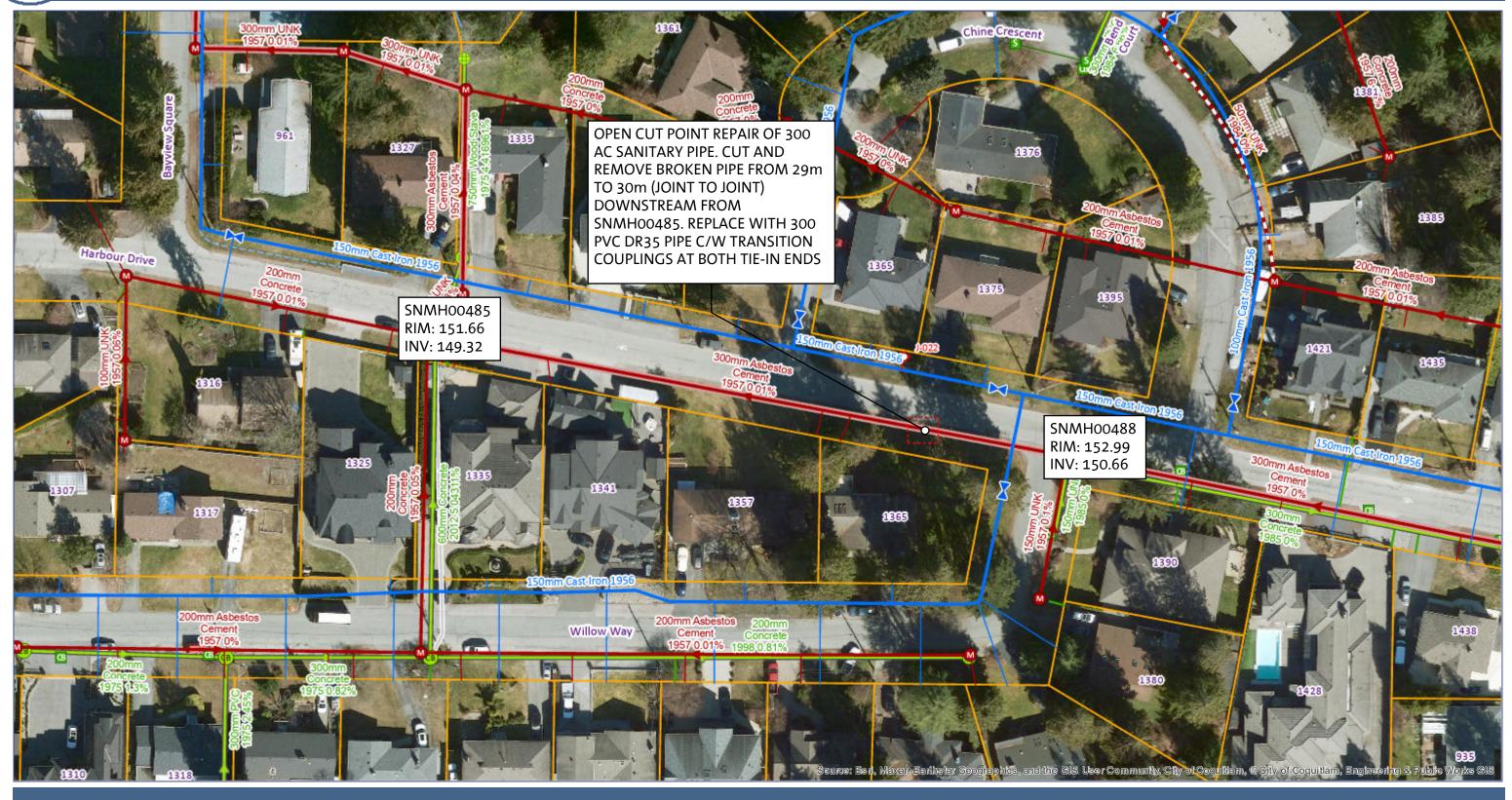
The City of Coquitlama ssumes no responsibility with respect to the accuracy, completeness or appropriateness of information shown.

0 0.0125 0.025 km

- PERMANENT ASPHALT TRENCH PATCH.
SUNSET AVENUE PAVEMENT RESTORATION TO BE TO
LOCAL ROAD STANDARD.



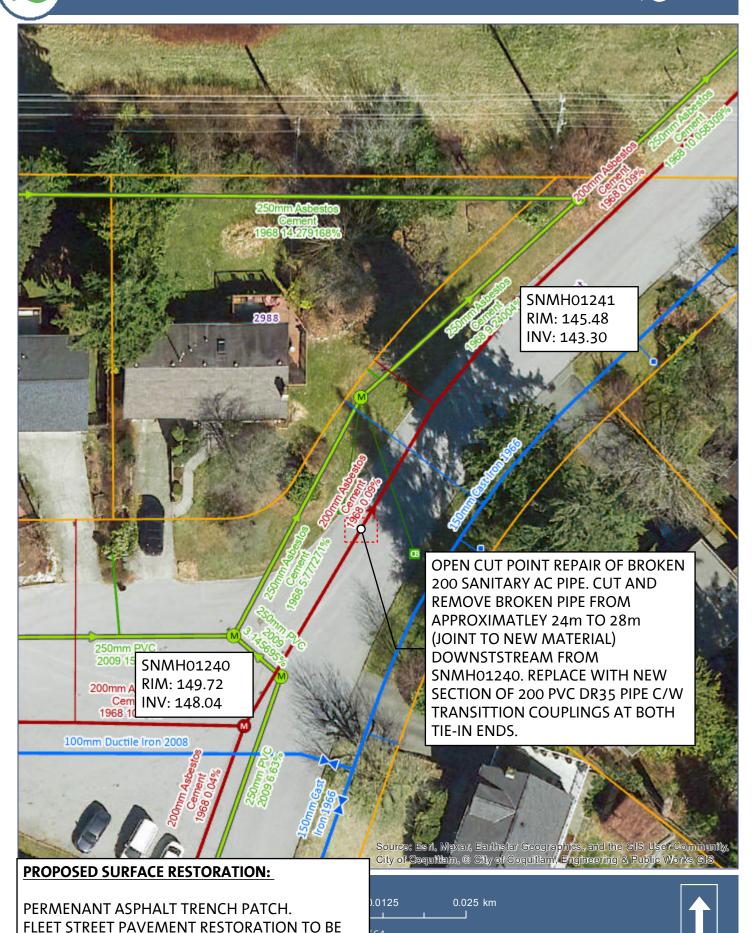






TO LOCAL ROAD STANDARD

Coquitlam



564

Q SNPI11199

BOULEVARD RESTORATION WITH TOPSOIL AND

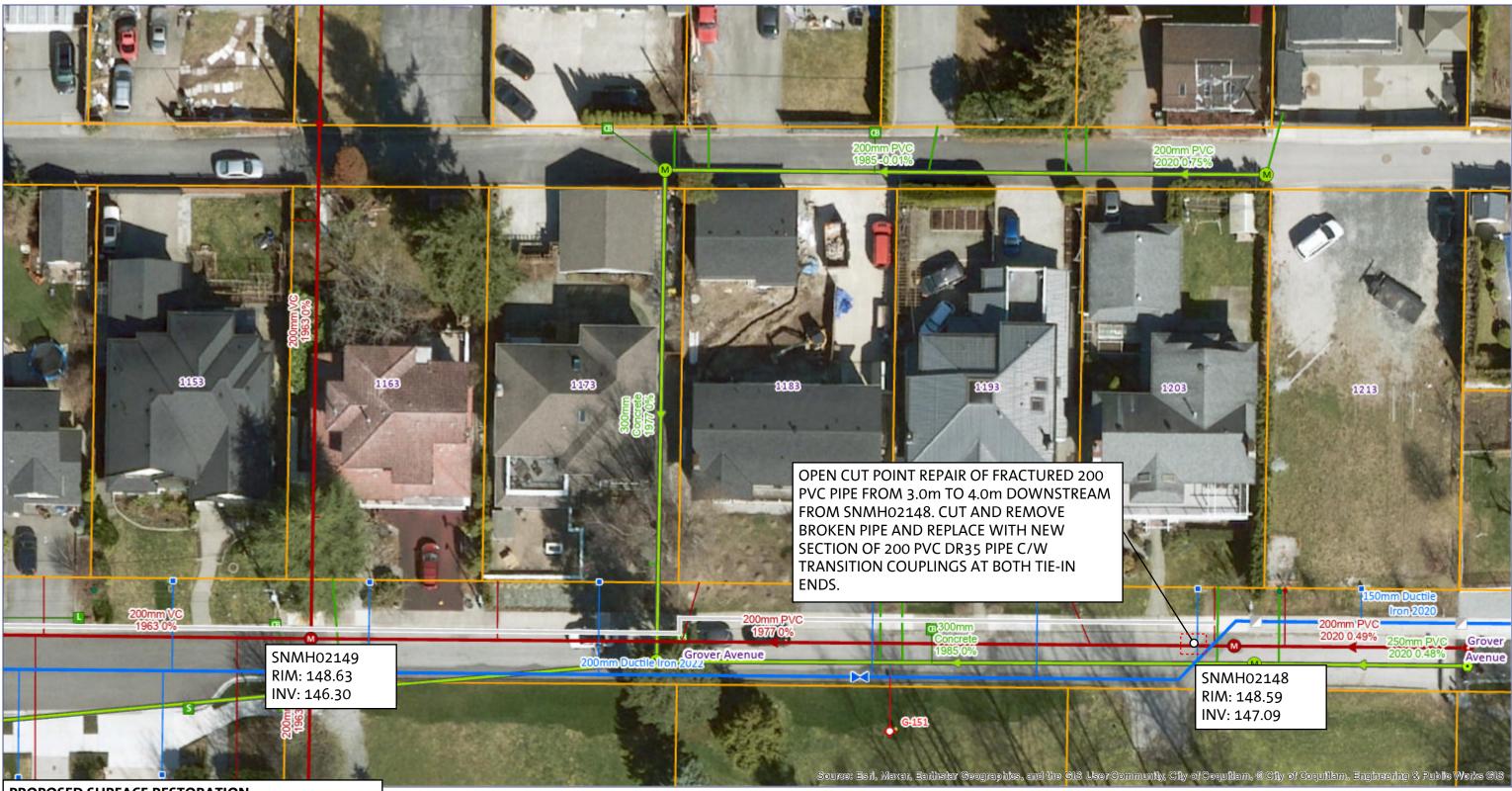
SOD AS REQUIRED

Coouitlam



SNPI11837

Coouitlam



PROPOSED SURFACE RESTORATION:

- PERMENANT ASPHALT TRENCH PATCH. GROVER AVENUE PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.







- STOCKPILE ANY PRIVATE PROPERTY LANDSCAPING

- RESTORE RIGHT-OF-WAY WITH TOPSOIL AND SEED

FOR RESTORATION

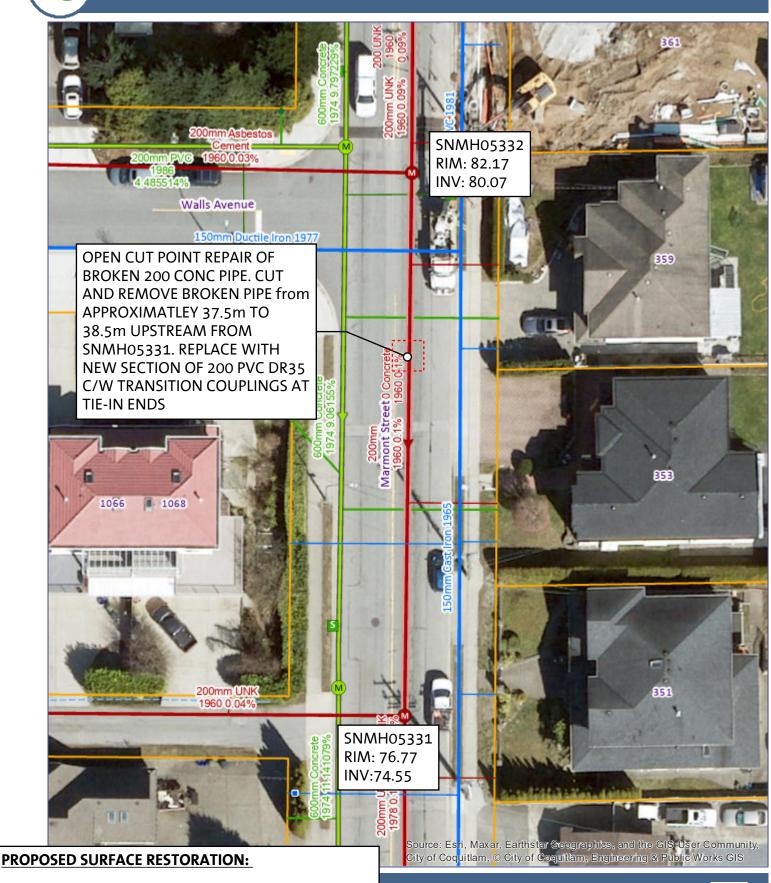
AS REQUIRED.

Coouitlam



0.01 km

North



0.0125

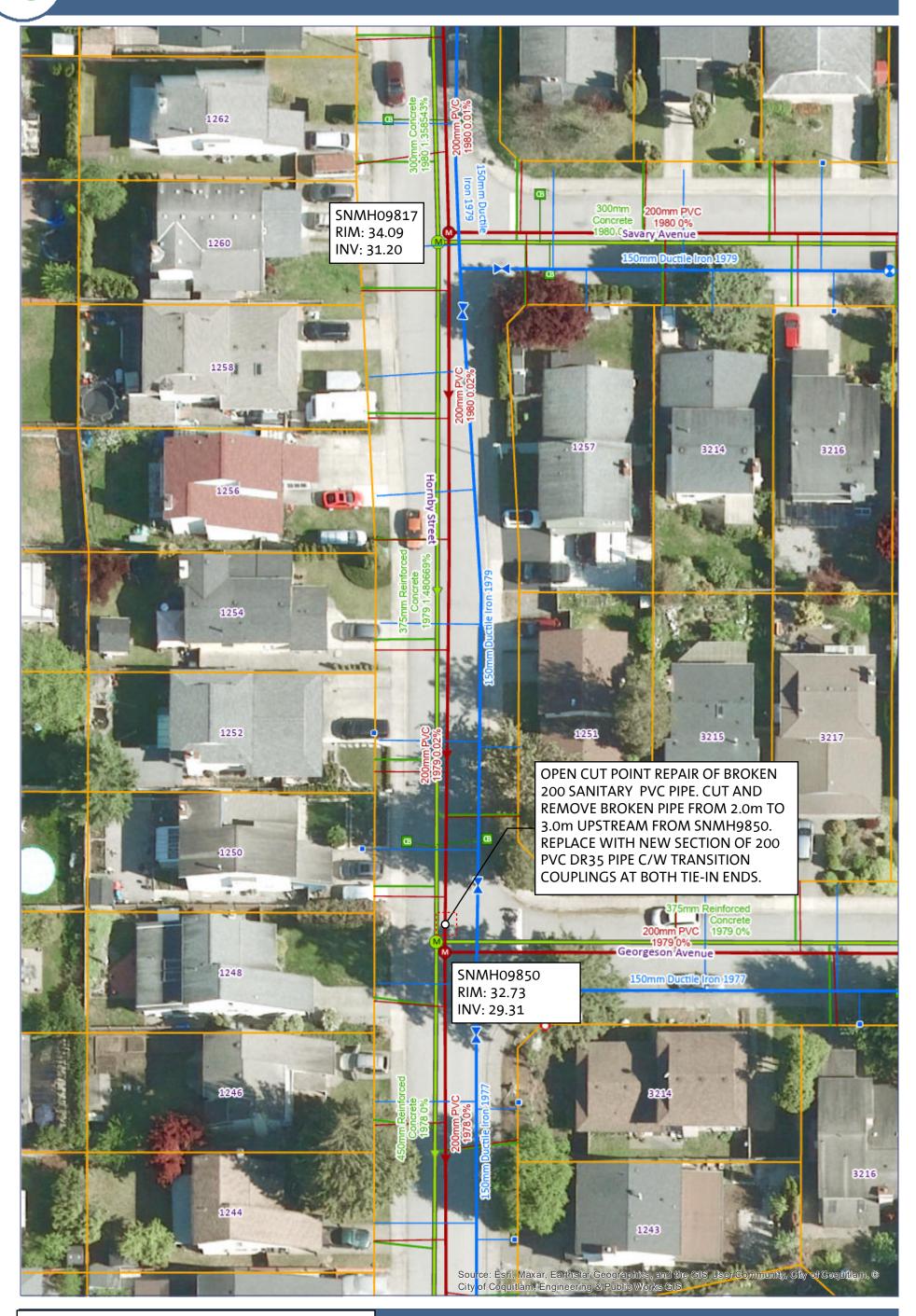
0.025 km

-THERMOPLASTIC LINE PAINTING AS REQUIRED

STANDARD.

- PERMANENT ASPHALT PATCH. MARMONT STREET

PAVEMENT RESTORATION TO BE TO ARTERIAL ROAD



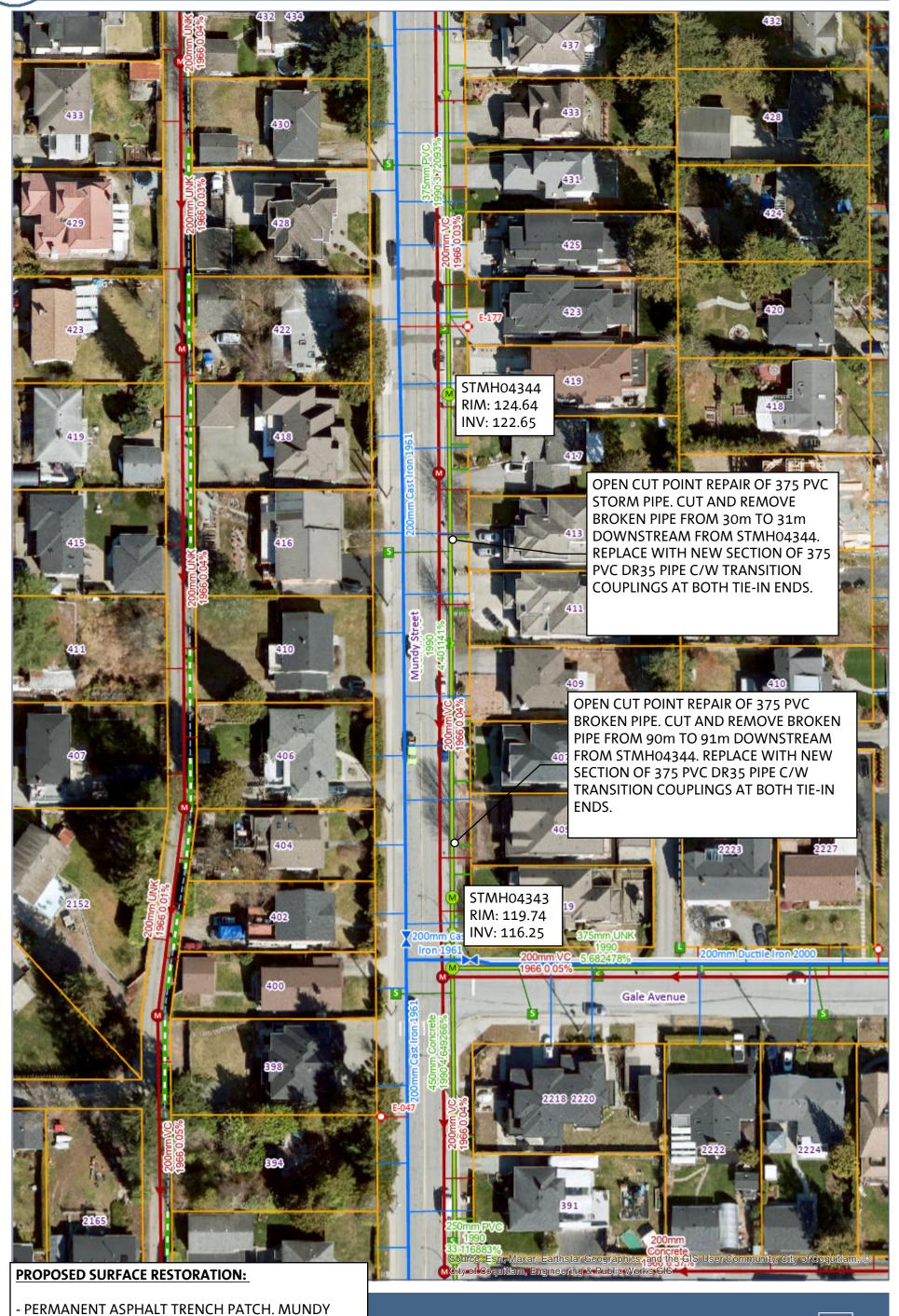
PROPOSED SURFACE RESTORATION:

- PERMANENT ASPHALT TRENCH PATCH. HORNBY STREET PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.





Coquitlam



STREET PAVEMENT RESTORATION TO BE TO COLLECTOR ROAD STANDARD.

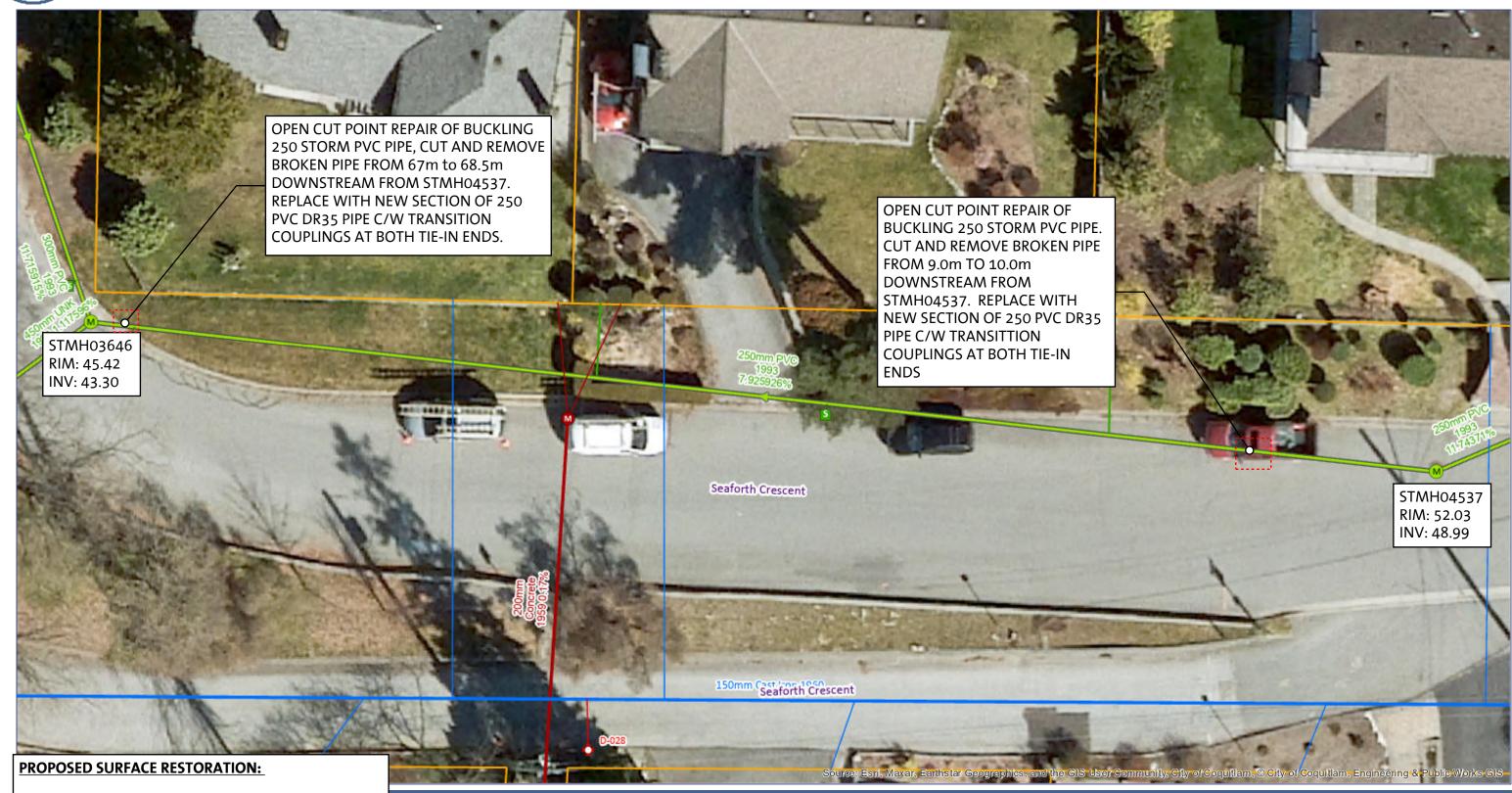
- REPLACE APPROX. TWO SIDEWALK PANELS C/W CURB AND GUTTER PER POINT REPAIR AS REQUIRED.

0.0275 0.055 km

1:1,128



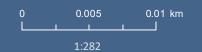




- PERMANENT ASPHALT TRENCH PATCH. SEAFORTH CRESCENT PAVEMENT RESTORATION TO BE TO LOCAL

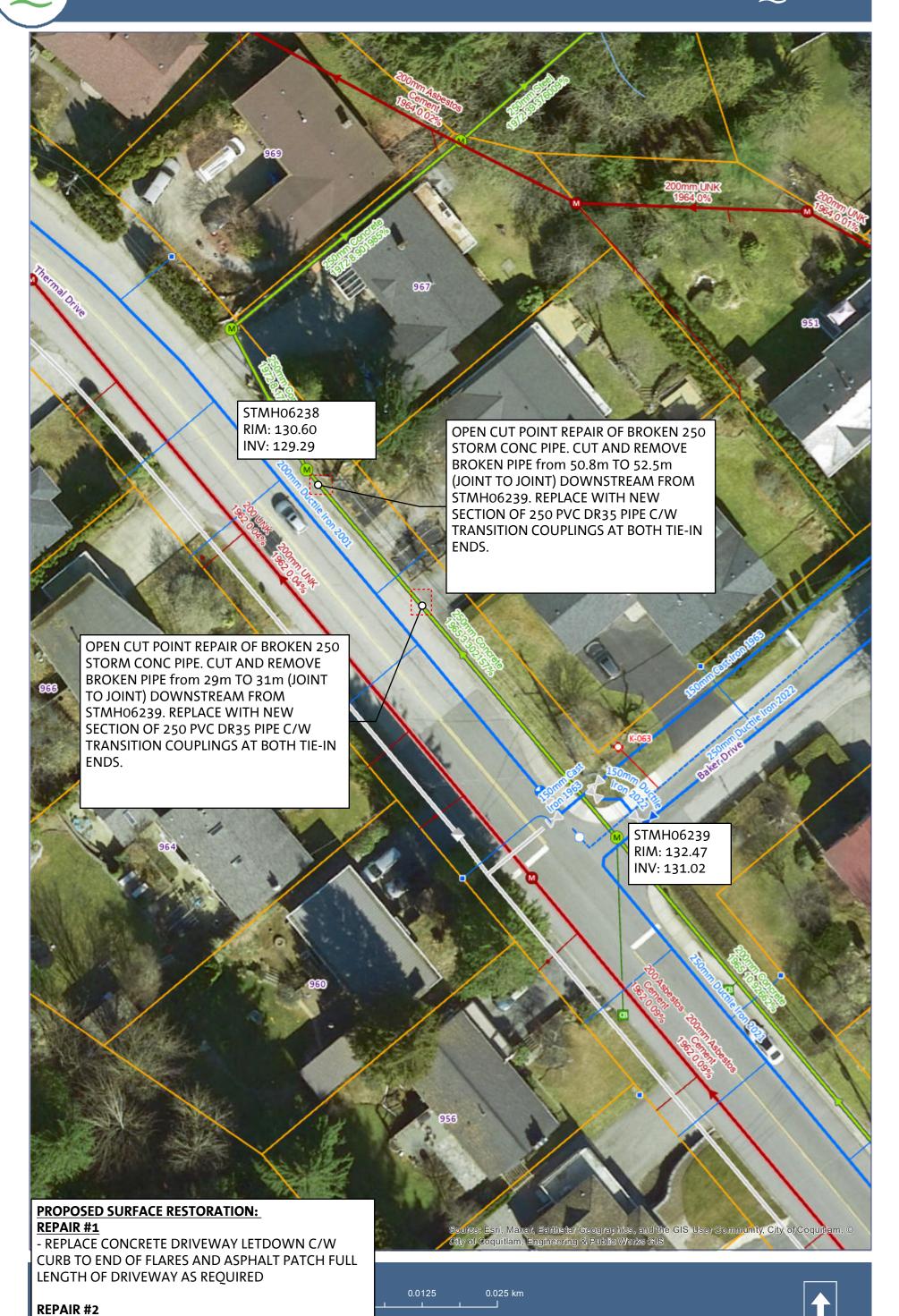
ROAD STANDARD. .

-BOULEVARD RESTORATION WITH TOPSOIL AND SOD AS REQUIRED.





Coquitlam

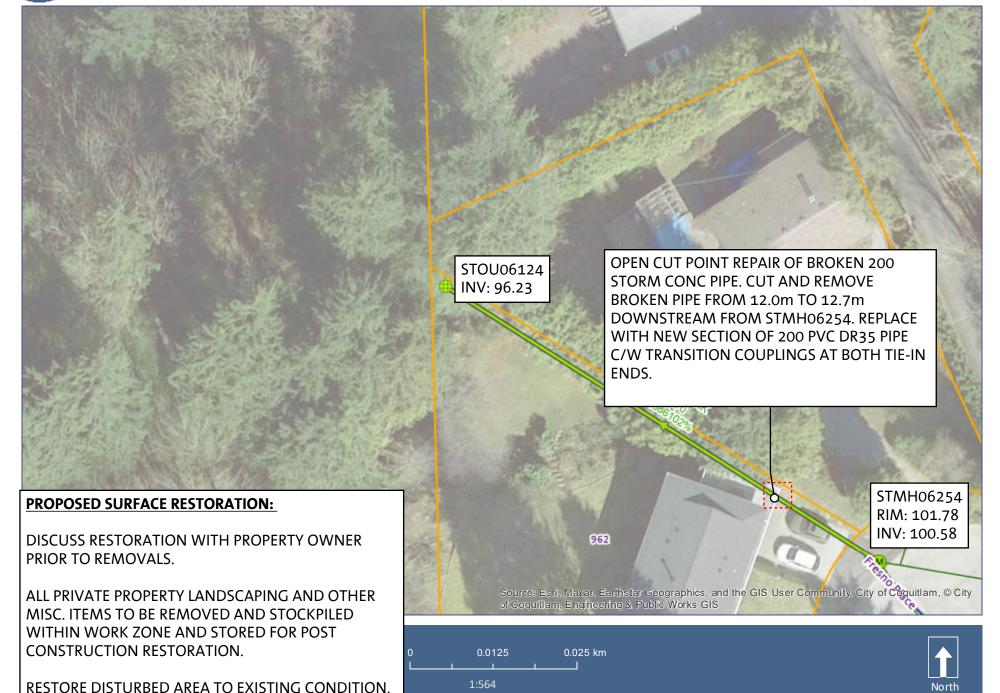


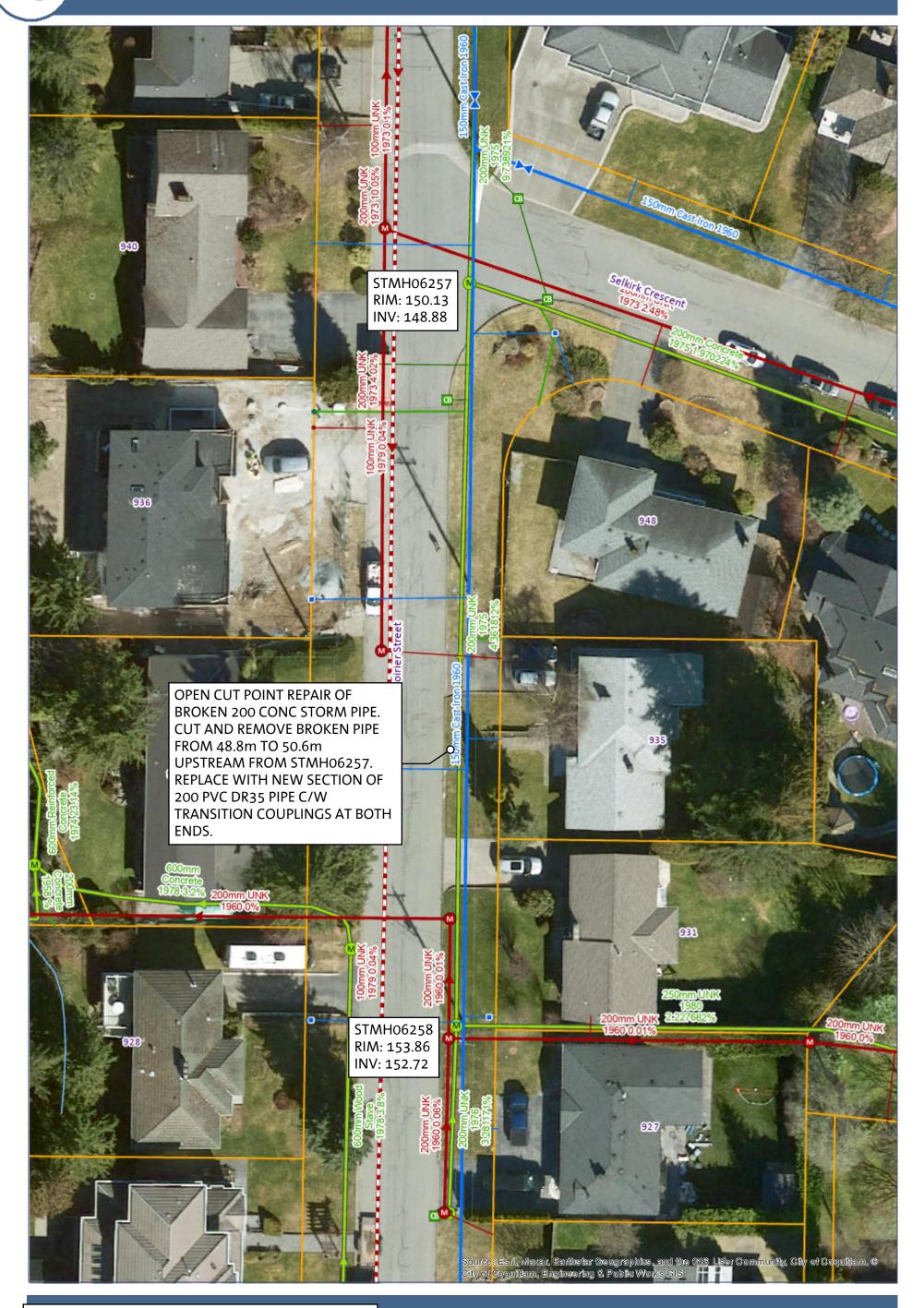
1:564

- REPLACE TWO CONCRETE PANELS C/W CURB

(MATCH EXISTING). TOPSOIL AND SEED AS REQUIRED.





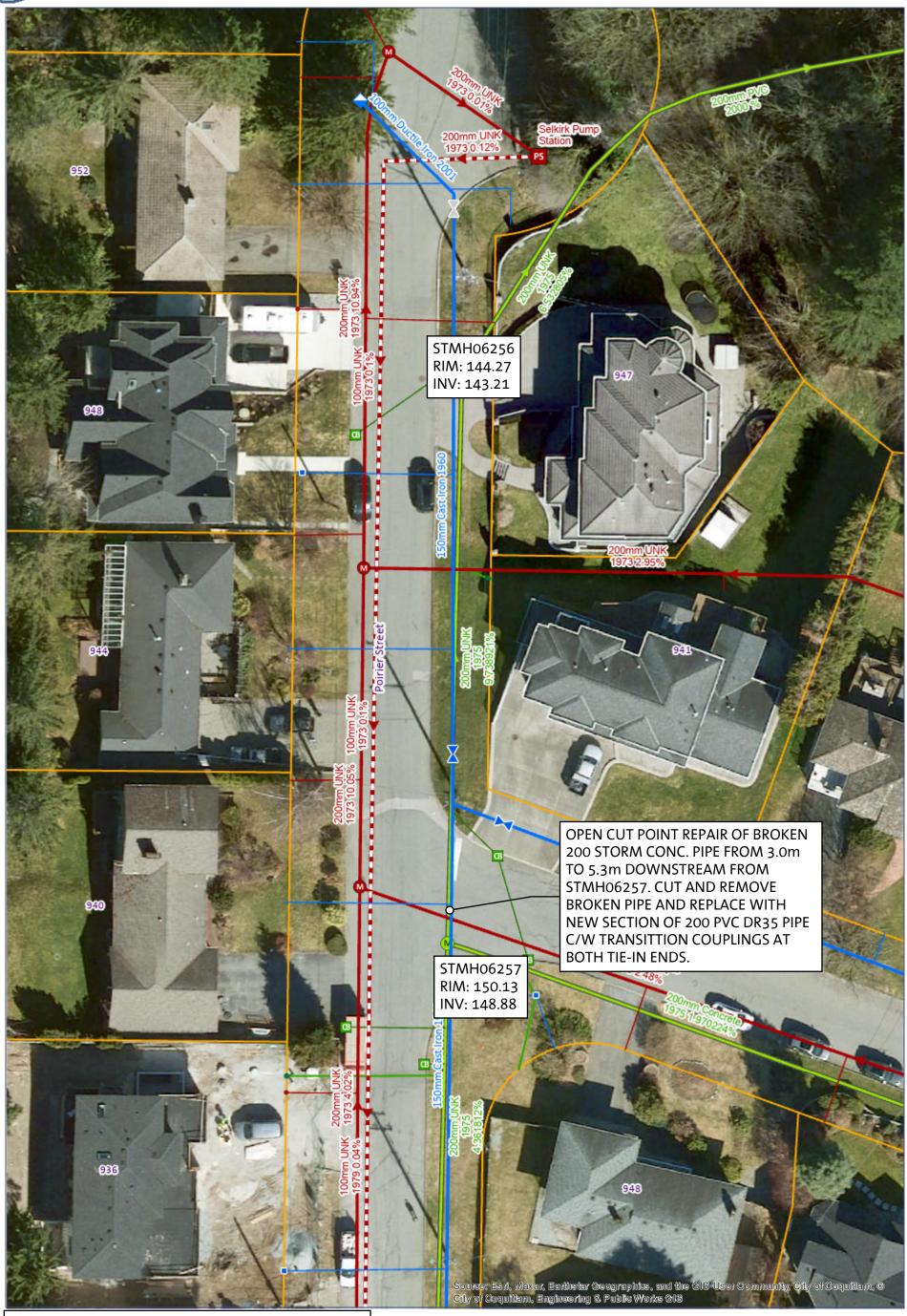


PROPOSED SURFACE RESTORATION:

- BOULEVARD RESTORATION WITH TOPSOIL AND SOD AS REQUIRED.

0.0125 0.025 km





PROPOSED SURFACE RESTORATION:

- PERMANENT ASPHALT TRENCH PATCH. SELKIRK CRESCENT PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.
- NEW THERMOPLASTIC STOP BAR AS REQUIRED.





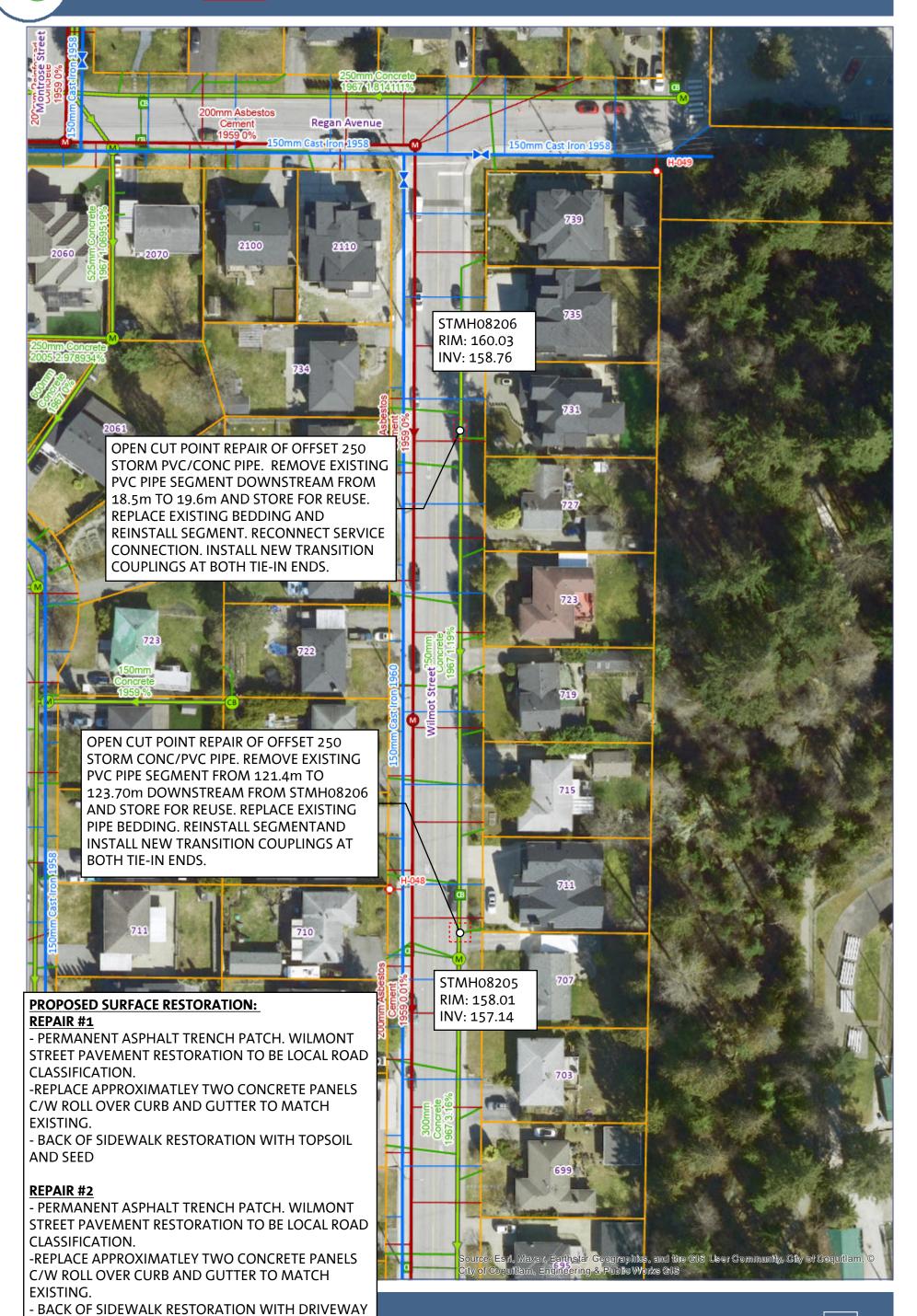


REPLACE APPROXIMATLEY 2 DRIVEWAY CONCRETE

PANELS.



Coquitlam



0.0275

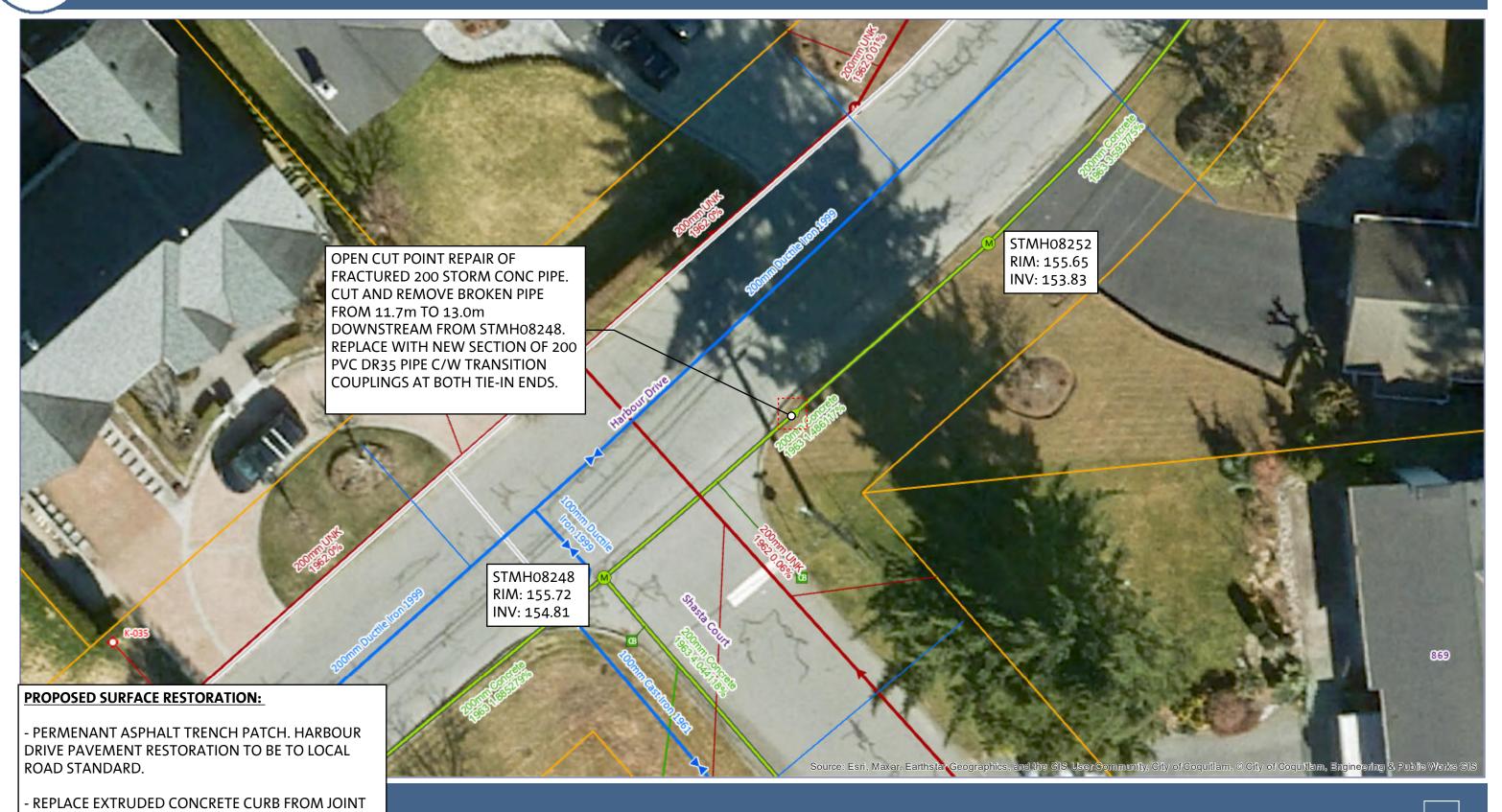
1:1,128

ASPHALT PATCH AS REQUIRED, TOPSOIL AND SEED

0.055 km

North

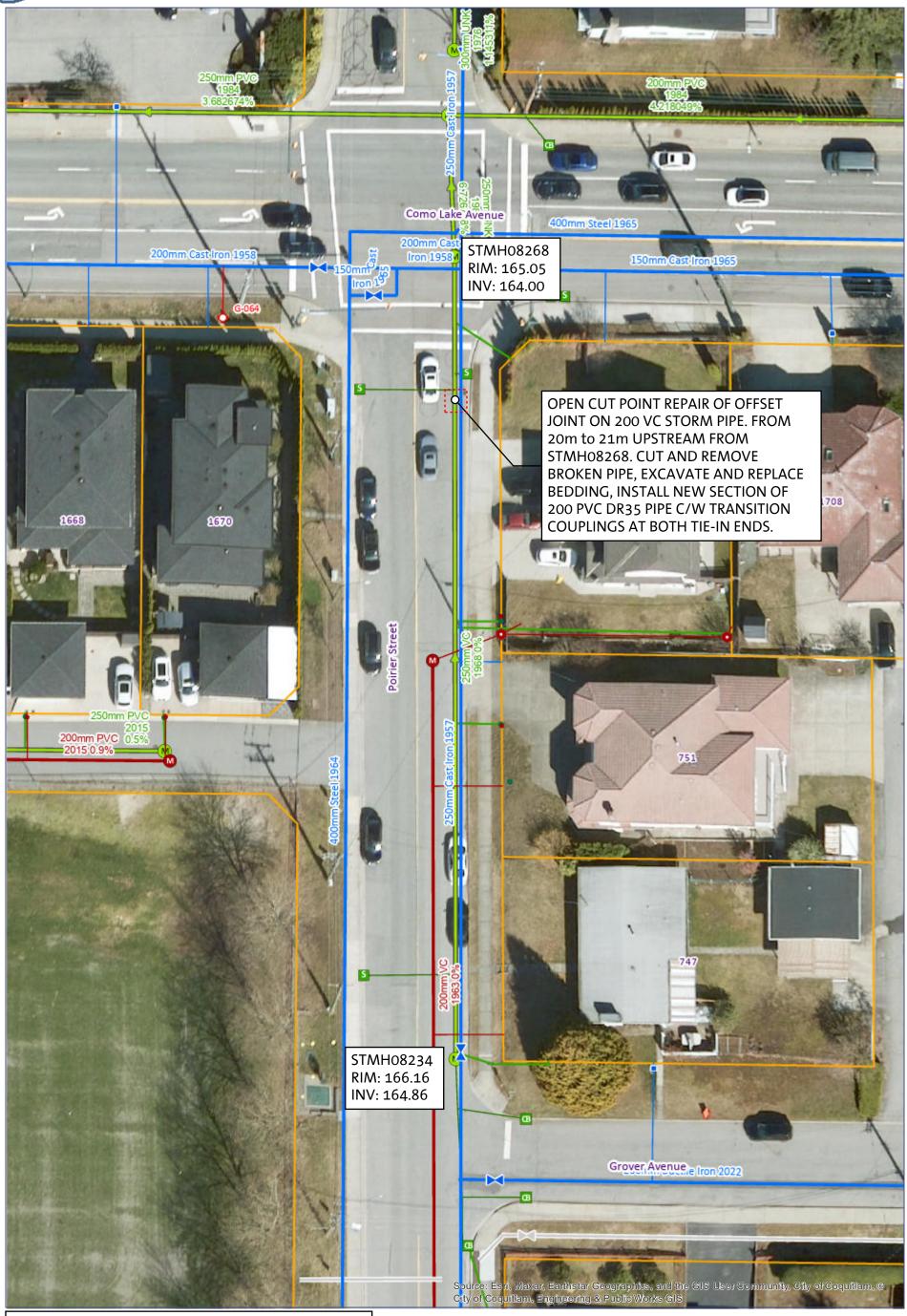




0.01 km

- BOULEVARD RESTORATION INCLUDING TOPSOIL AND SOD.

TO JOINT.



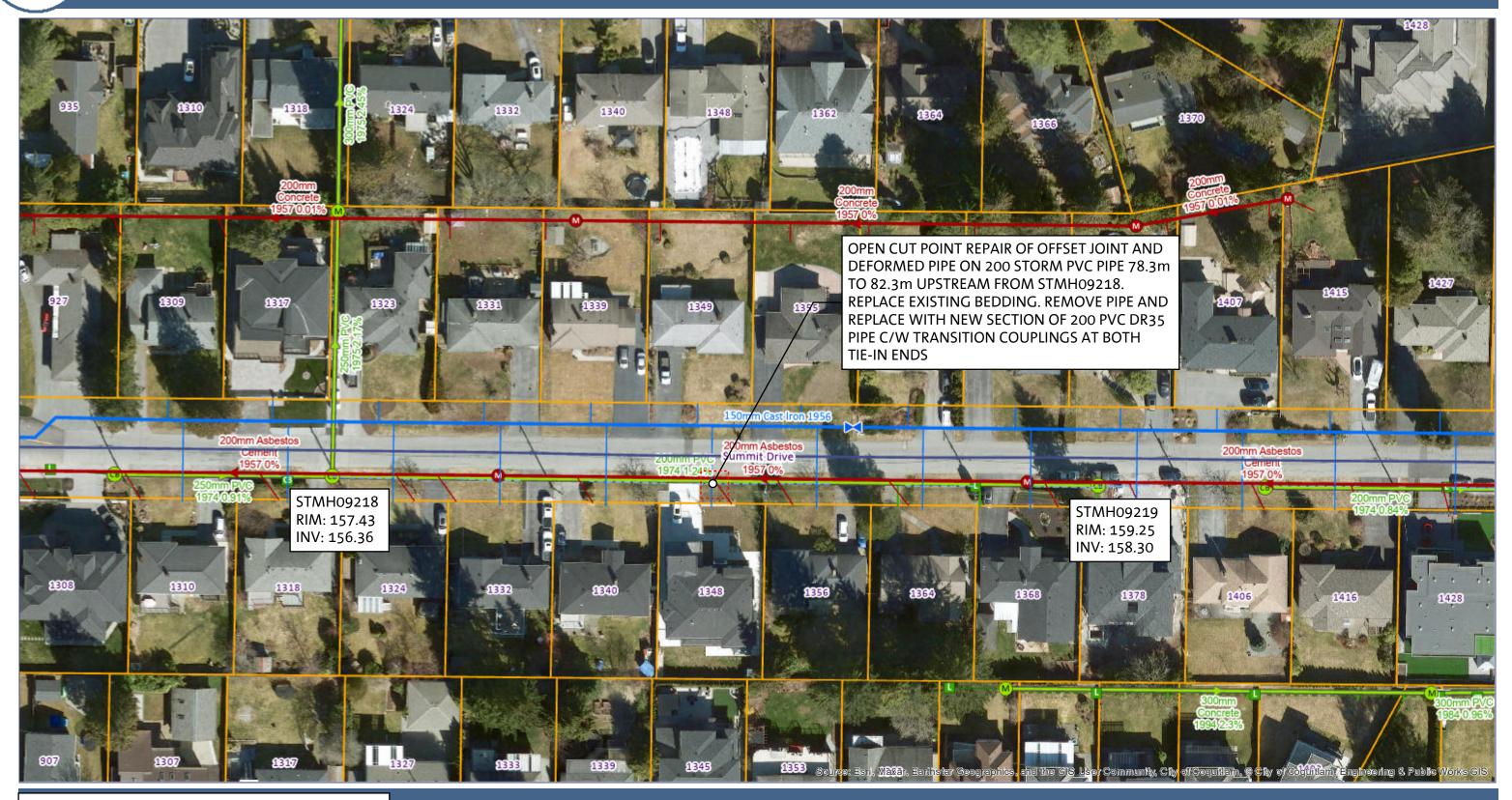
PROPOSED SURFACE RESTORATION:

PERMENANT ASPHALT TRENCH PATCH. POIRER STREET PAVEMENT RESTORATION TO BE TO COLLECTOR ROAD CLASSIFICATION.

0.0125 0.025 km

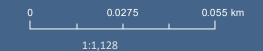






PROPOSED SURFACE RESTORATION:

- BOULEVARD RESTORATION INCLUDING TOPSOIL AND SOD.







- PERMANENT ASPHALT PATCH AS REQUIRED.

LOCAL ROAD STANDARD.

WILLOW WAY PAVEMENT RESTORATION TO BE TO

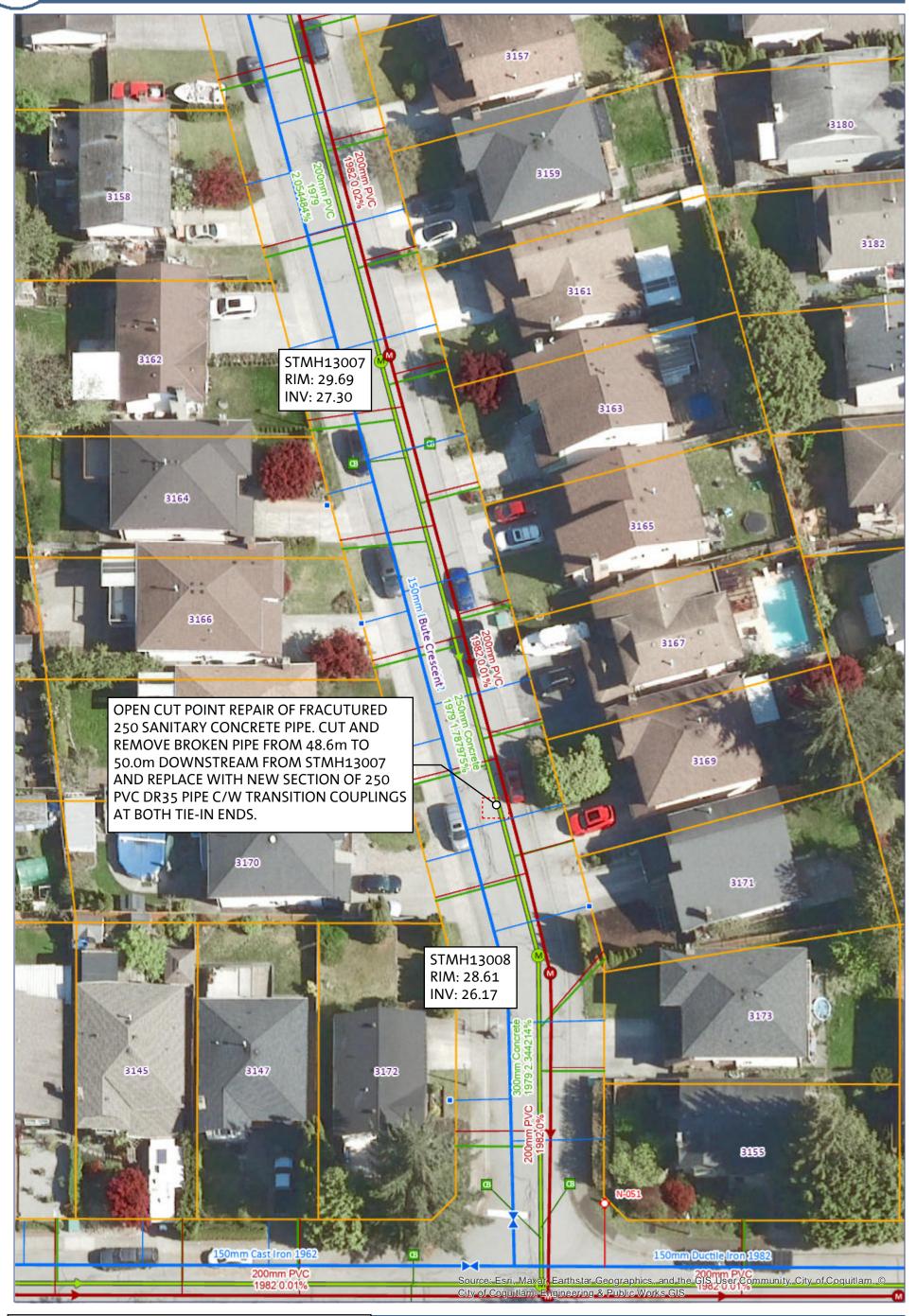
Coouitlam



0.01 km



Coquitlam



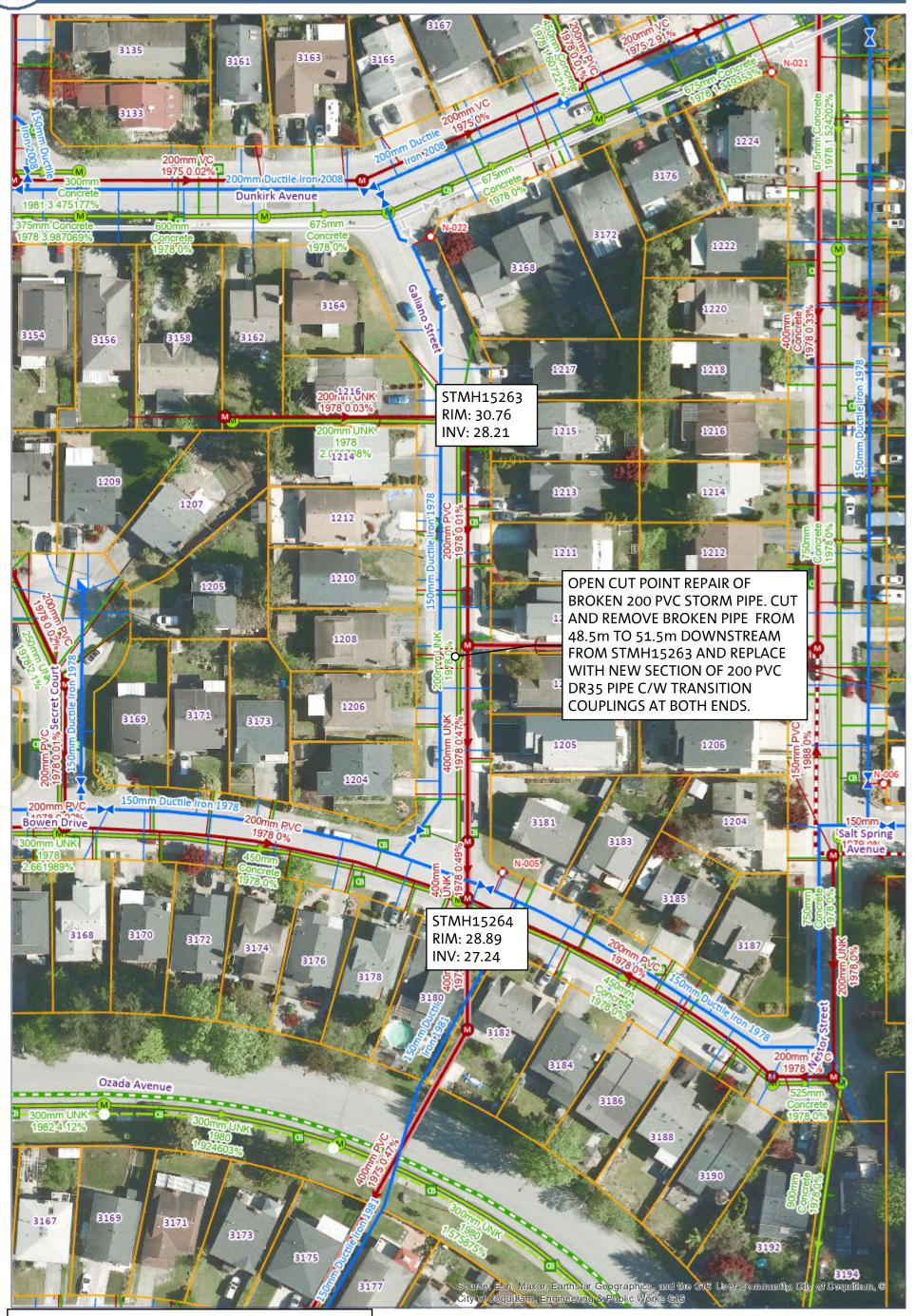
PROPOSED SURFACE RESTORATION:

- PERMANENT ASPHALT TRENCH PATCH. BUTE CRESCENT PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.





Coquitlam



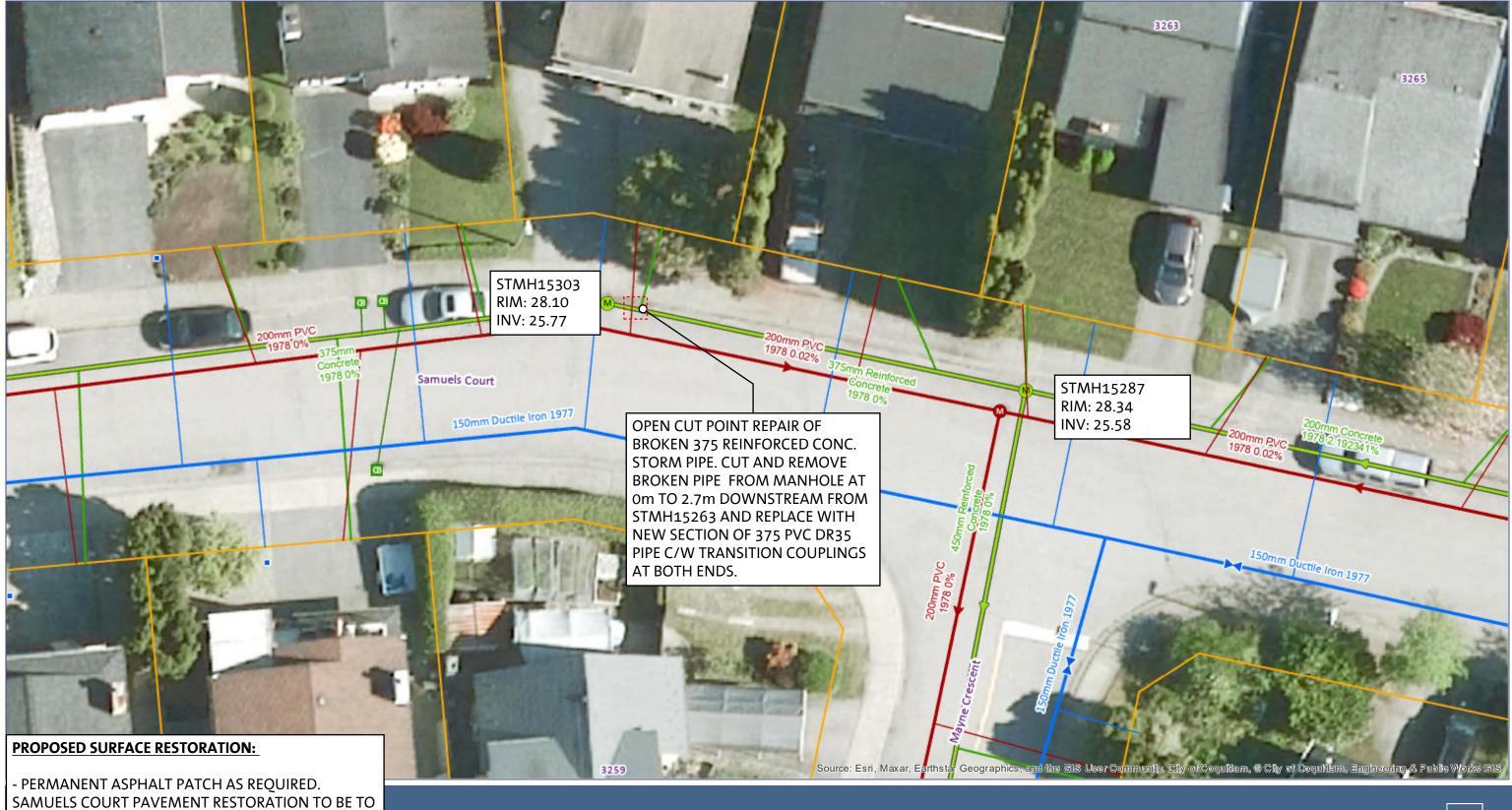
PROPOSED SURFACE RESTORATION:

- PERMANENT ASPHALT PATCH AS REQUIRED.
GALLIANO STREET PAVEMENT RESTORATION TO BE
TO LOCAL ROAD STANDARD.



0.0275





- REPLACE APPROX. 3 SIDEWALK CONCRETE PANELS C/W ROLL OVER CURB AND GUTTER

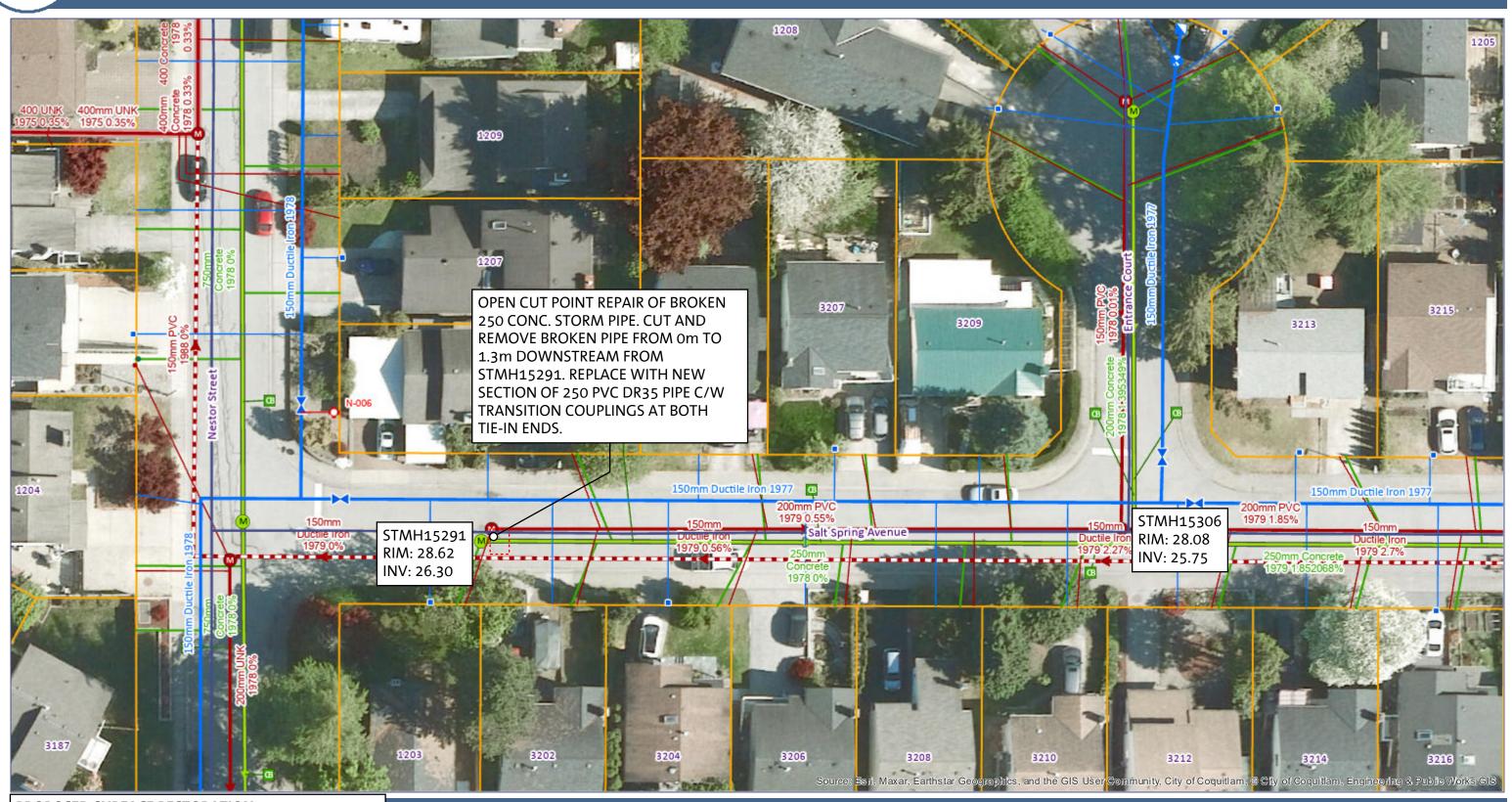
LOCAL ROAD STANDARD.





Q STPI15317

Coouitlam



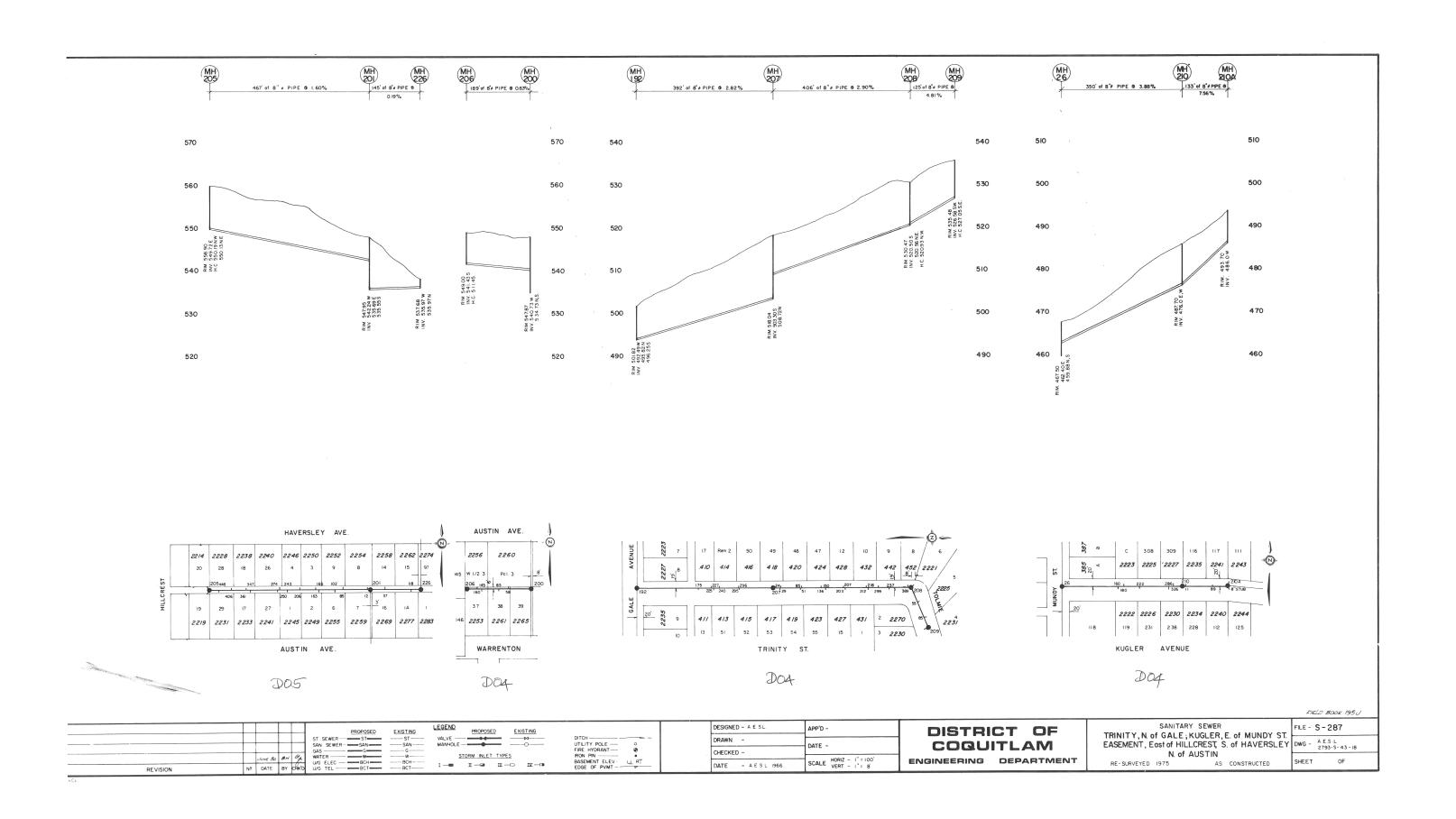
PROPOSED SURFACE RESTORATION:

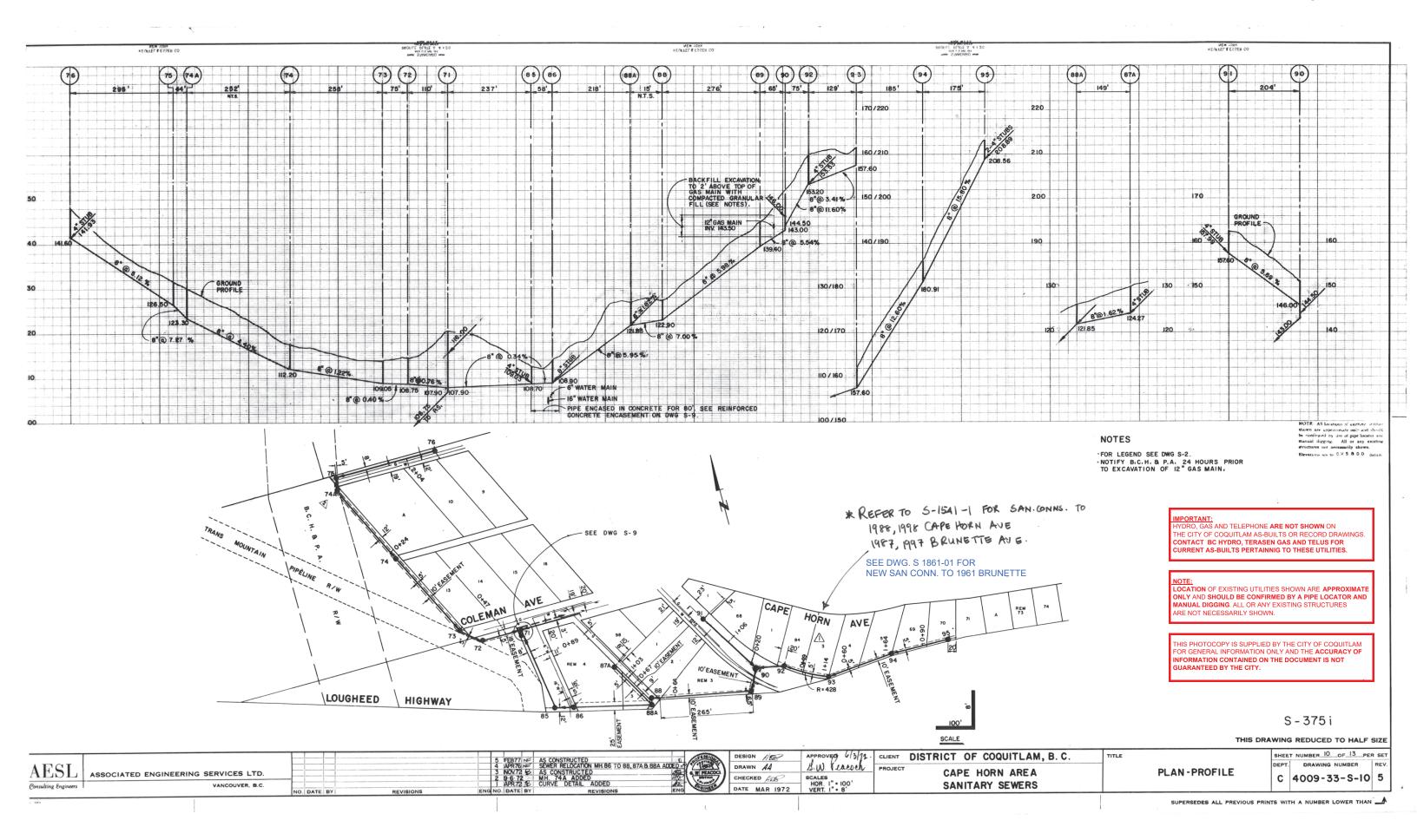
- PERMANENT ASPHALT TRENCH PATCH. SALT SPRING AVENUE PAVEMENT RESTORATION TO BE TO LOCAL ROAD STANDARD.

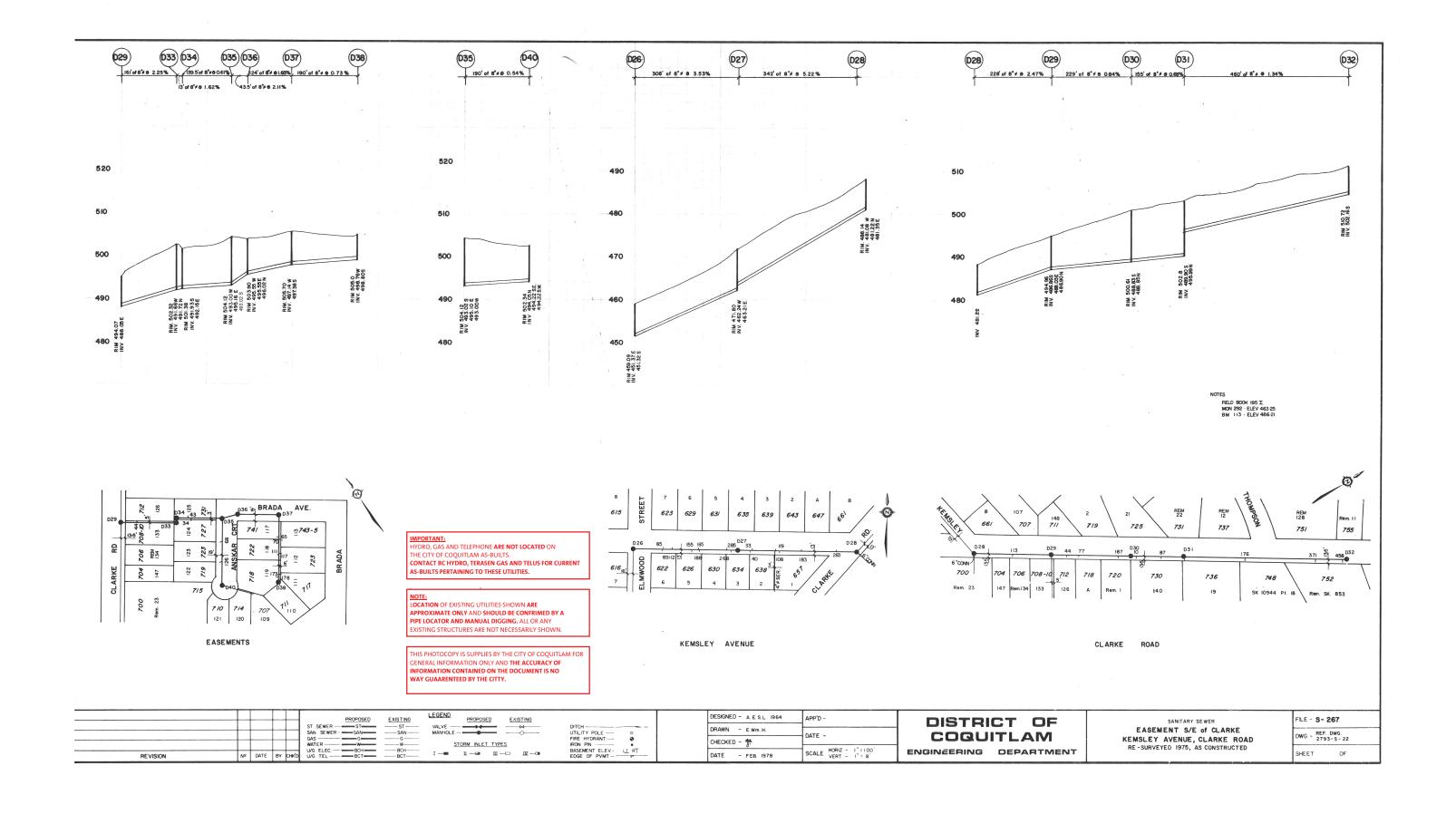


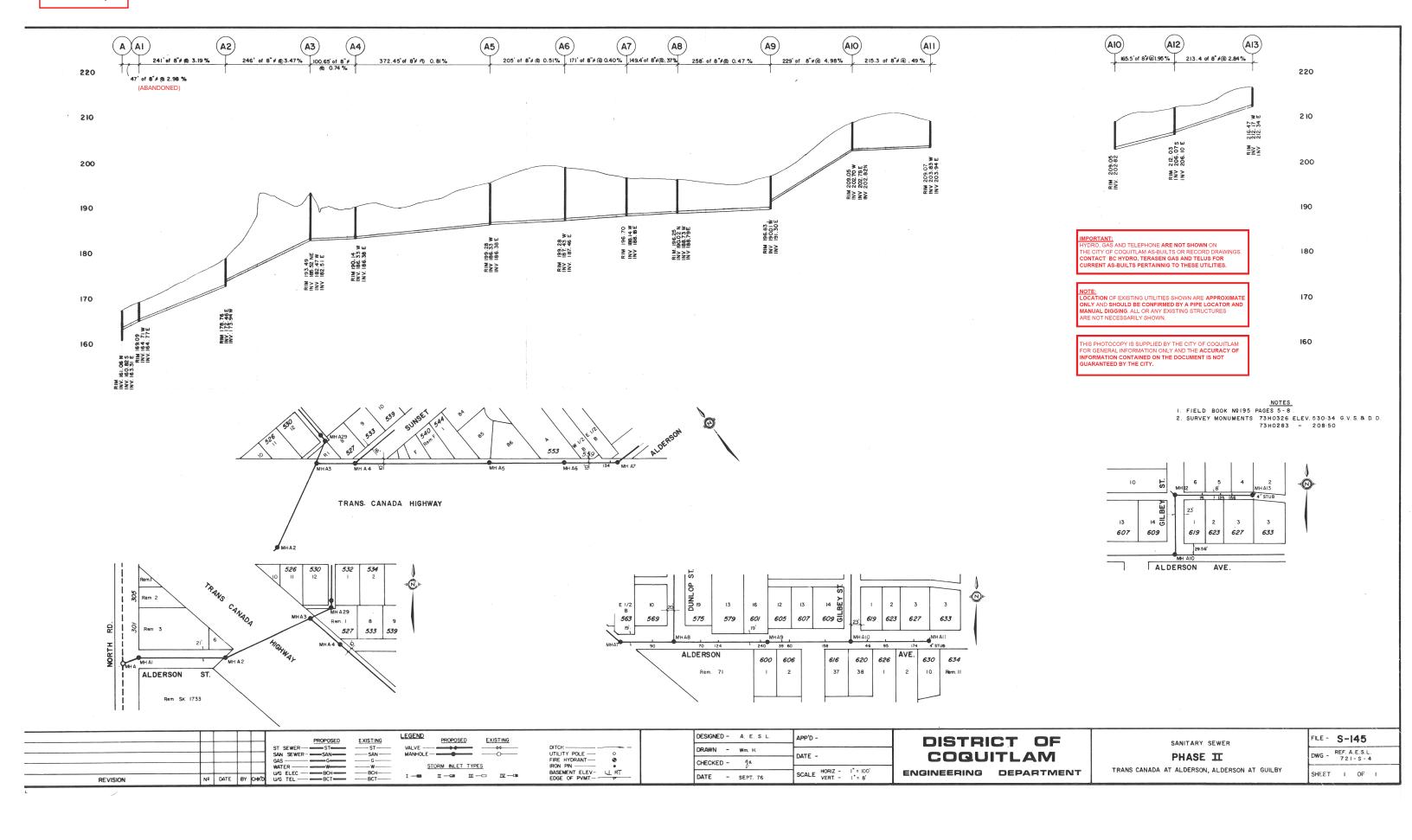


Appendix C - As-Built Drawings





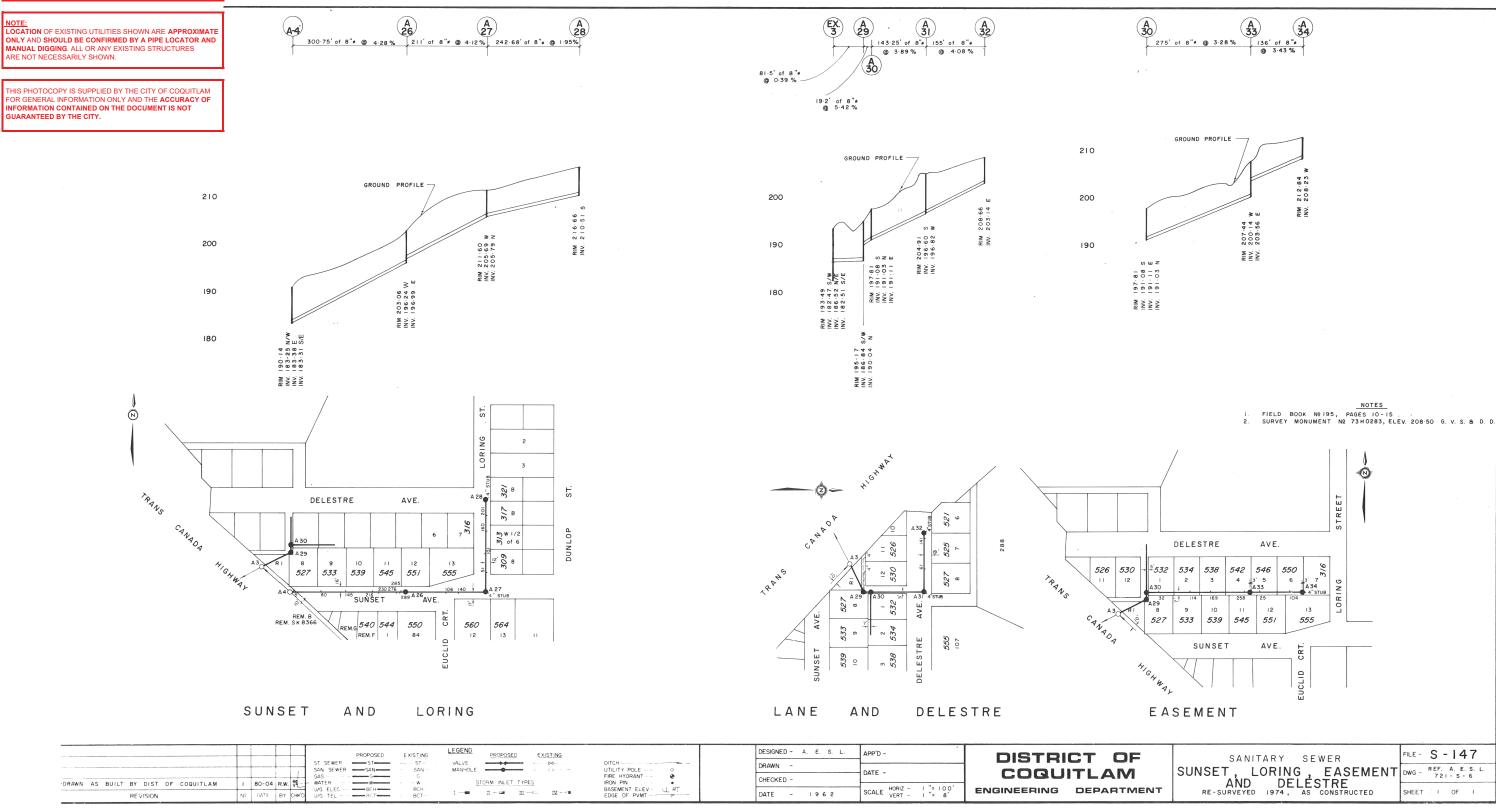


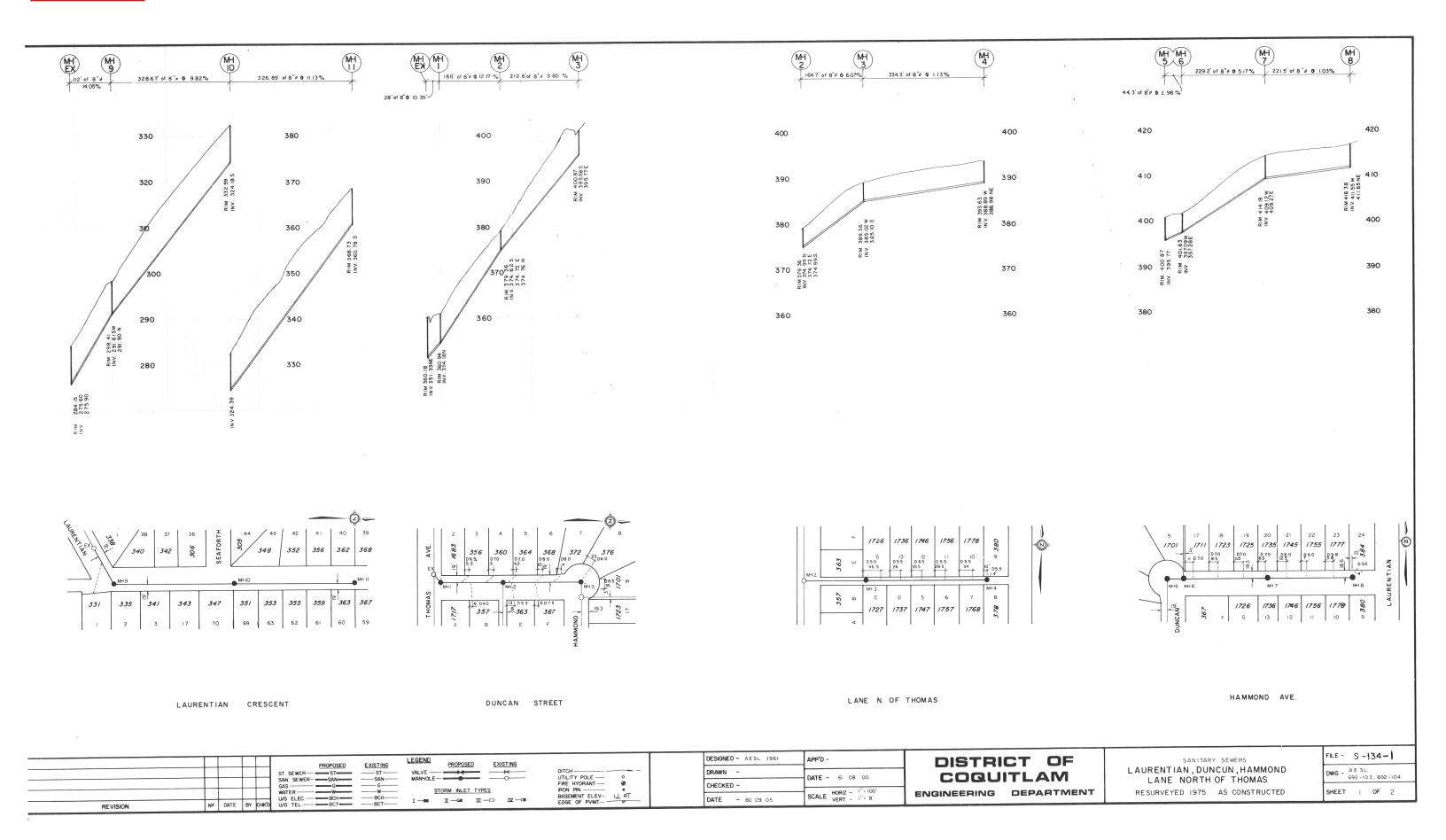


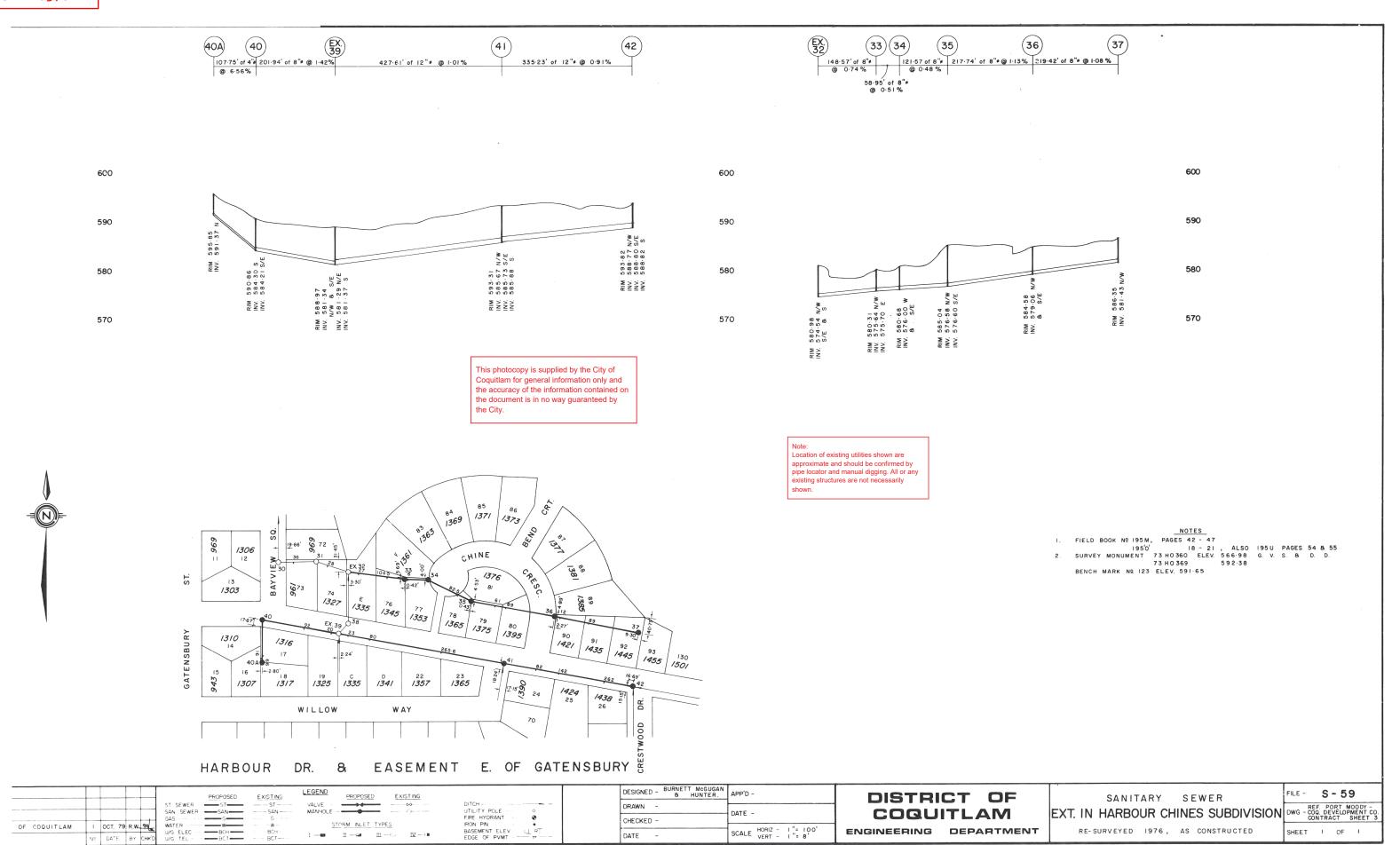
MPORTANT: IYDRO, GAS AND TELEPHONE **ARE NOT SHOWN** ON THE CITY OF COQUITLAM AS-BUILTS OR RECORD DRAWINGS CONTACT BC HYDRO, TERASEN GAS AND TELUS FOR URRENT AS-BUILTS PERTAINNIG TO THESE UTILITIES.

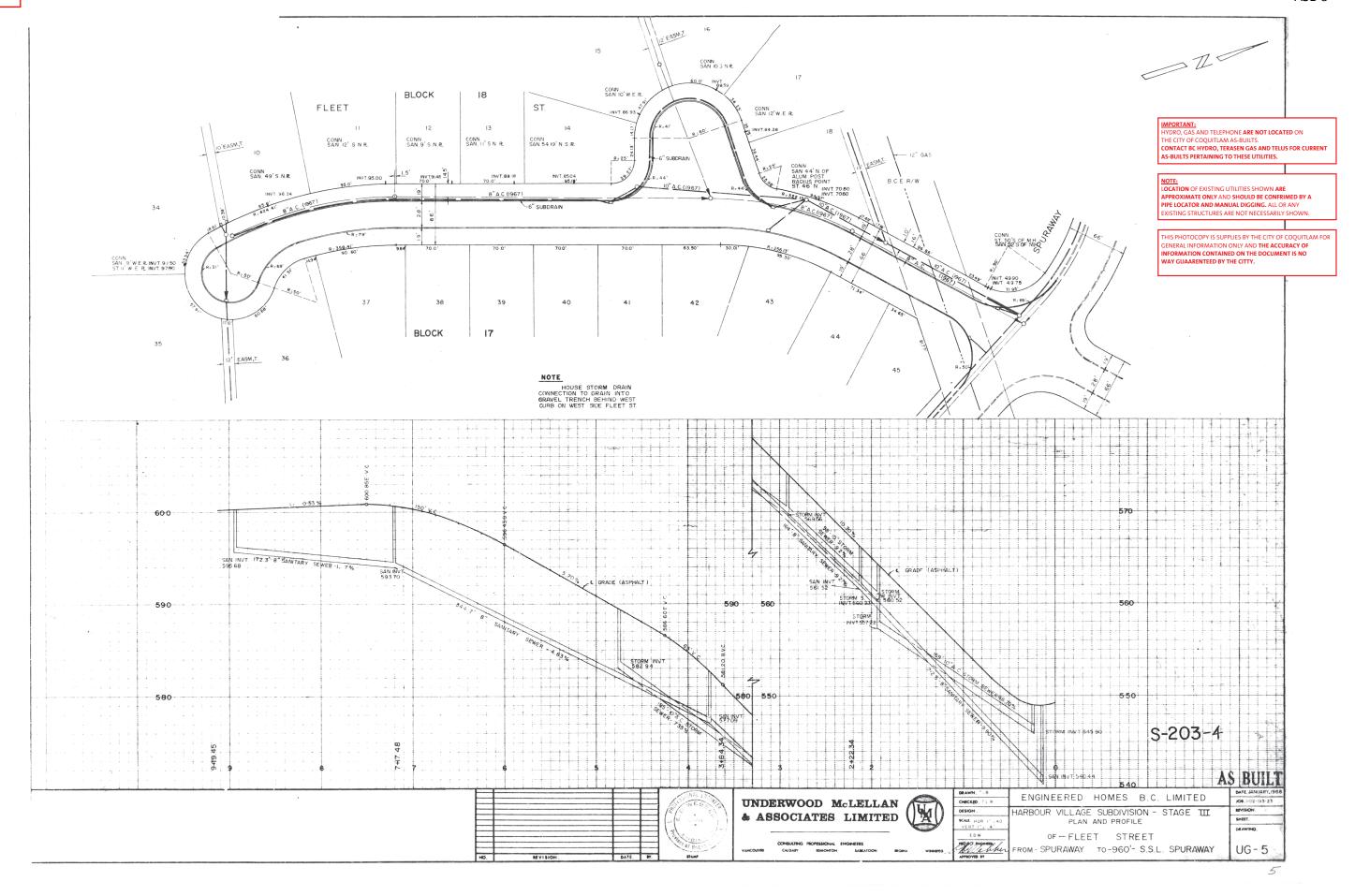
ONLY AND SHOULD BE CONFIRMED BY A PIPE LOCATOR AND MANUAL DIGGING. ALL OR ANY EXISTING STRUCTURES

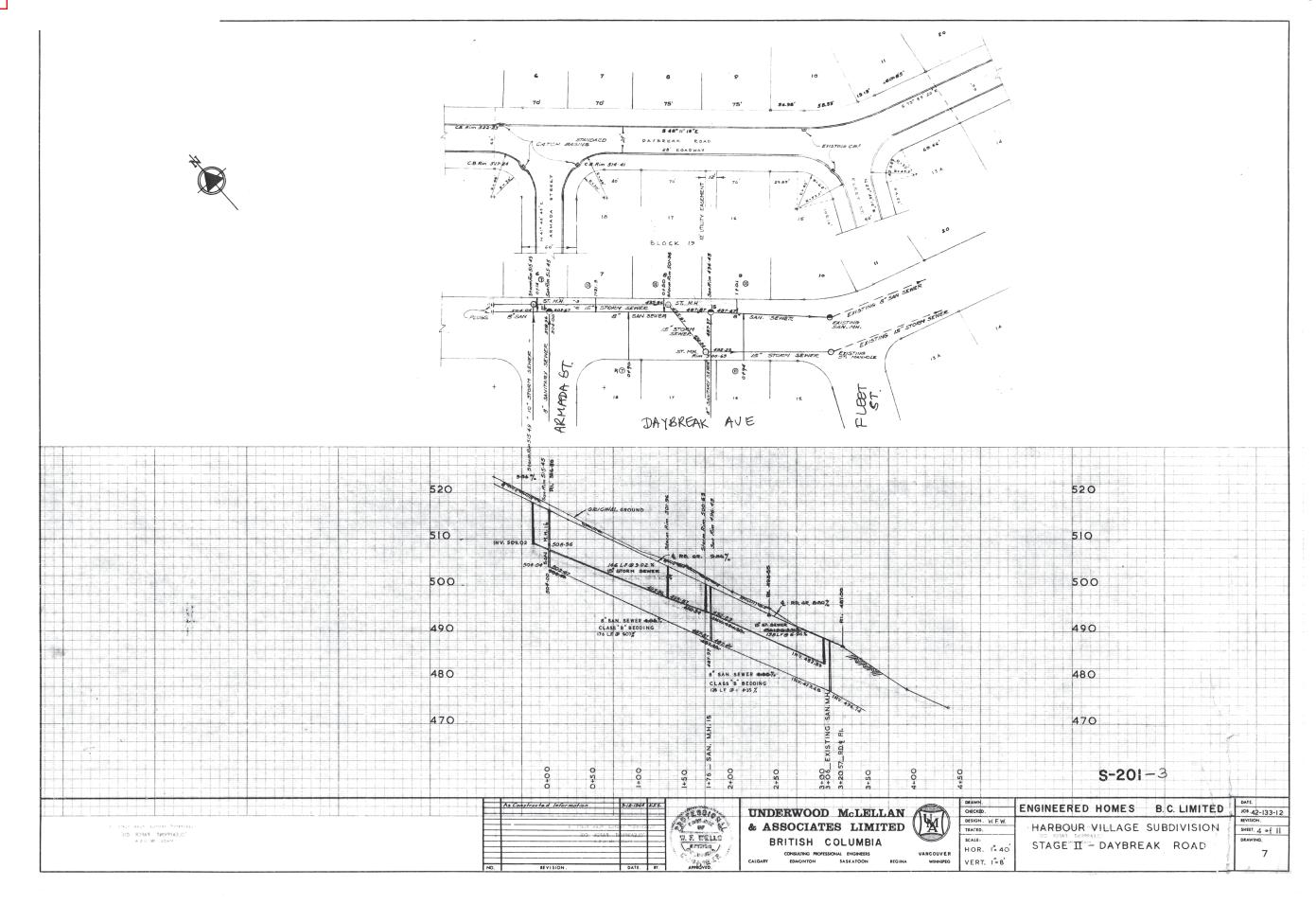
THIS PHOTOCOPY IS SUPPLIED BY THE CITY OF COQUITLAM FOR GENERAL INFORMATION ONLY AND THE ACCURACY OF INFORMATION CONTAINED ON THE DOCUMENT IS NOT GUARANTEED BY THE CITY.

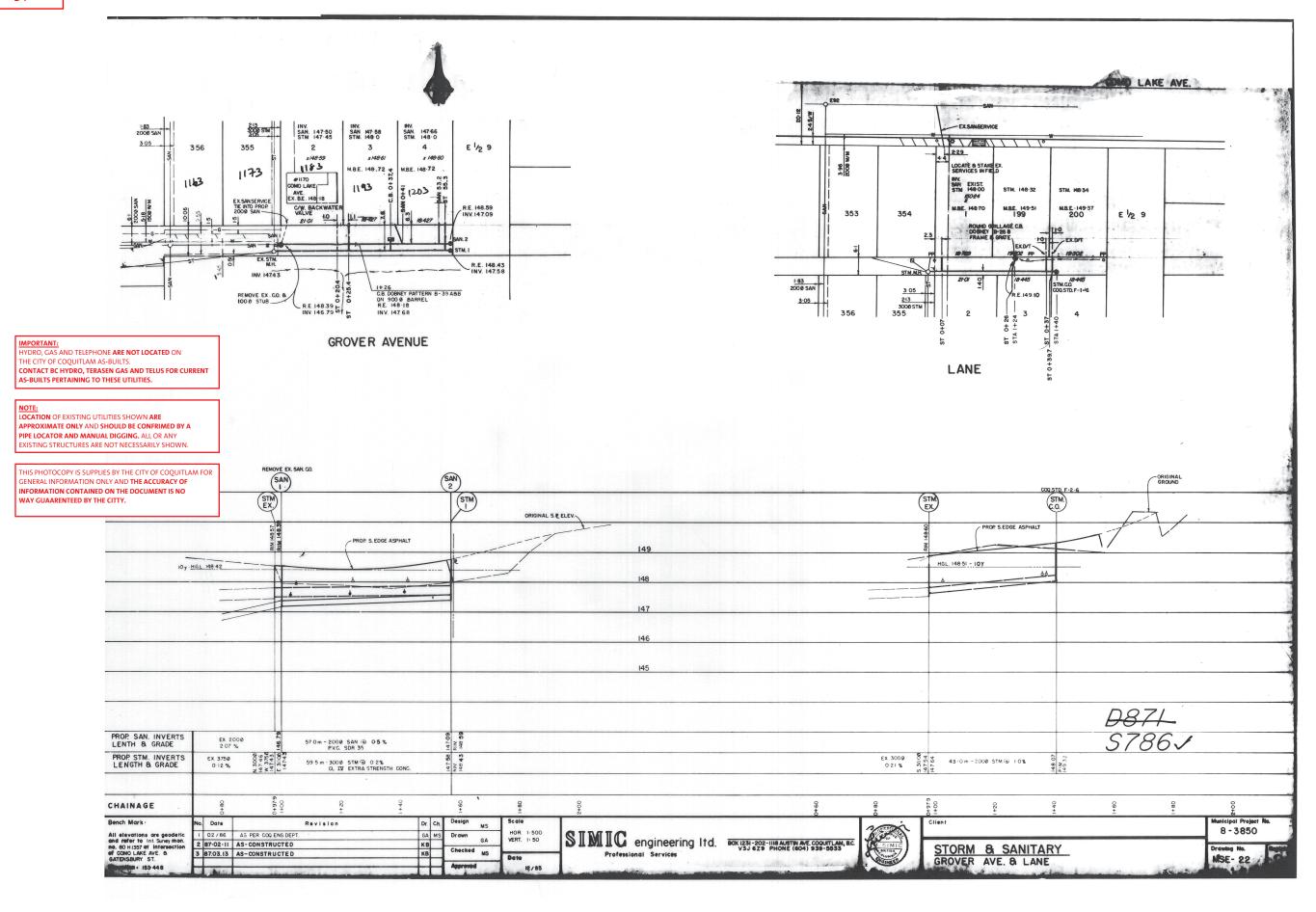


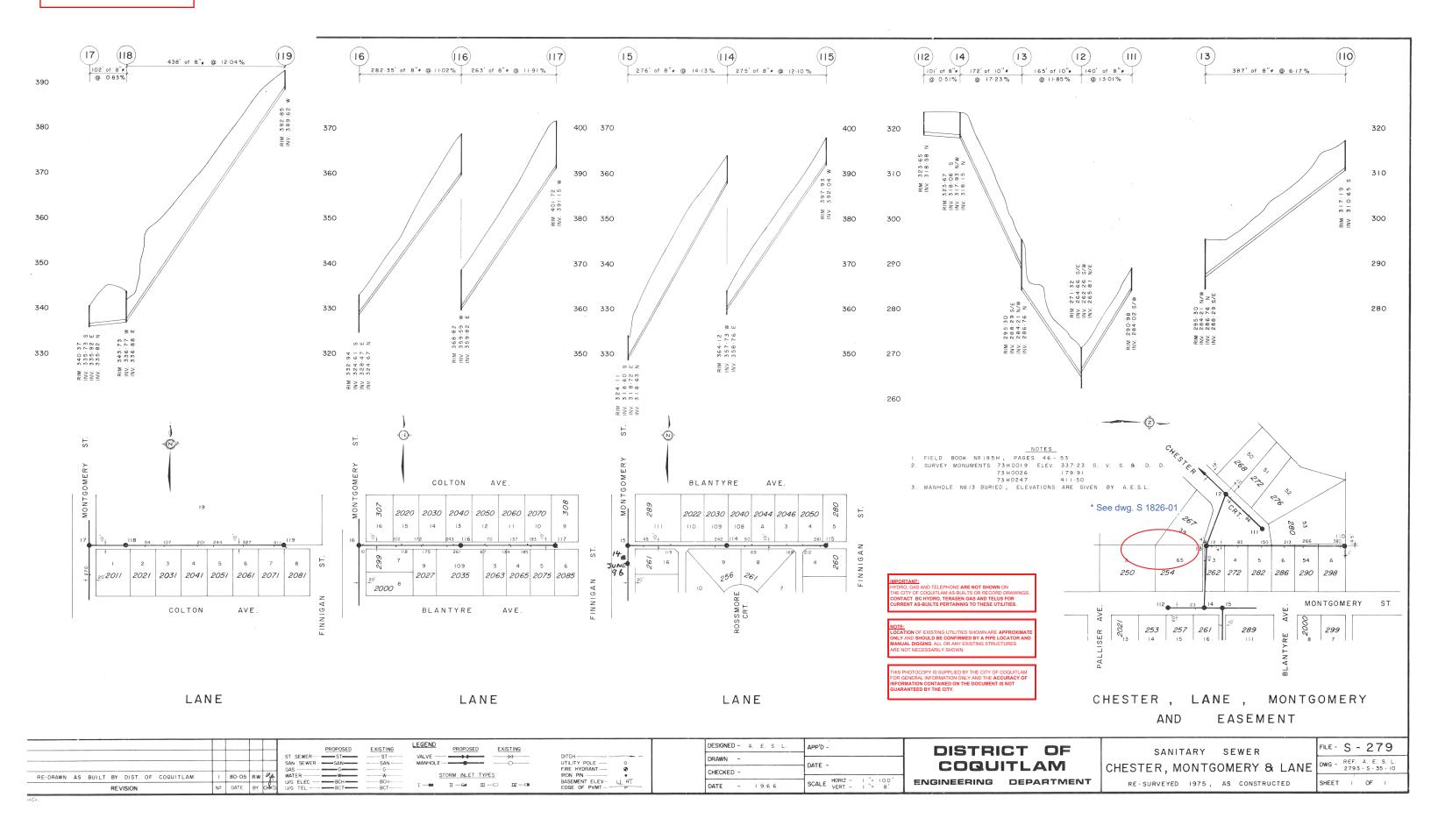


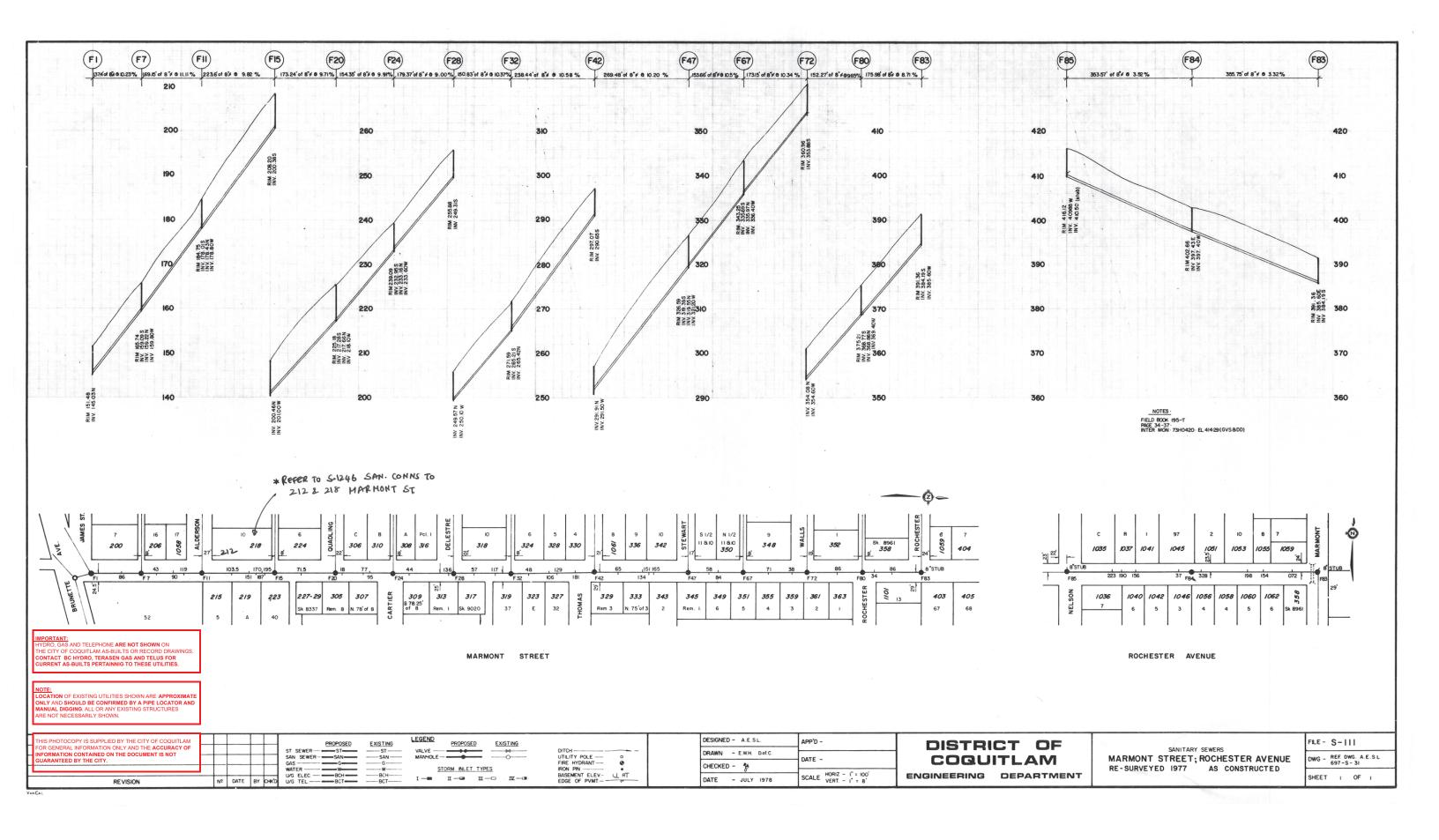


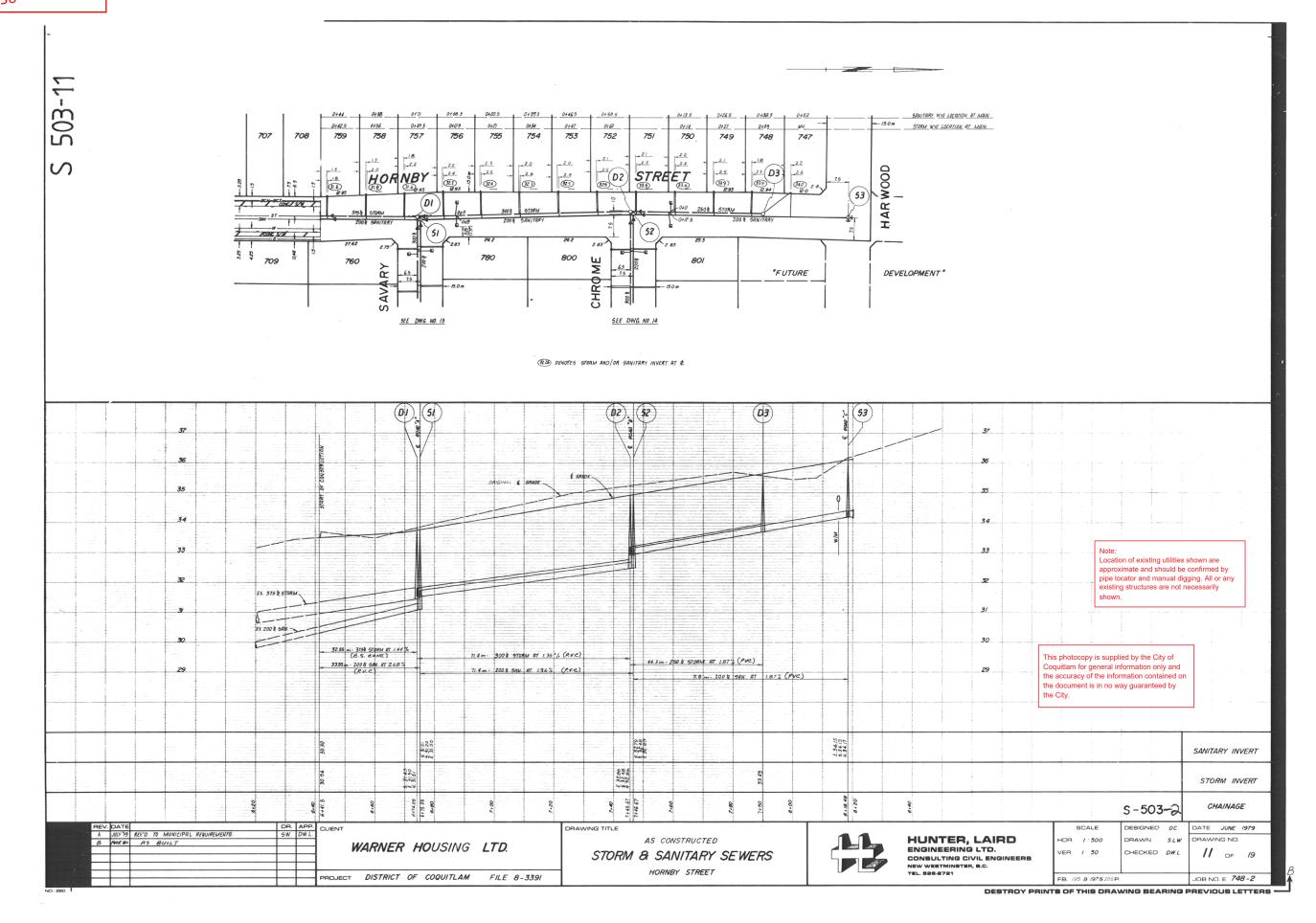


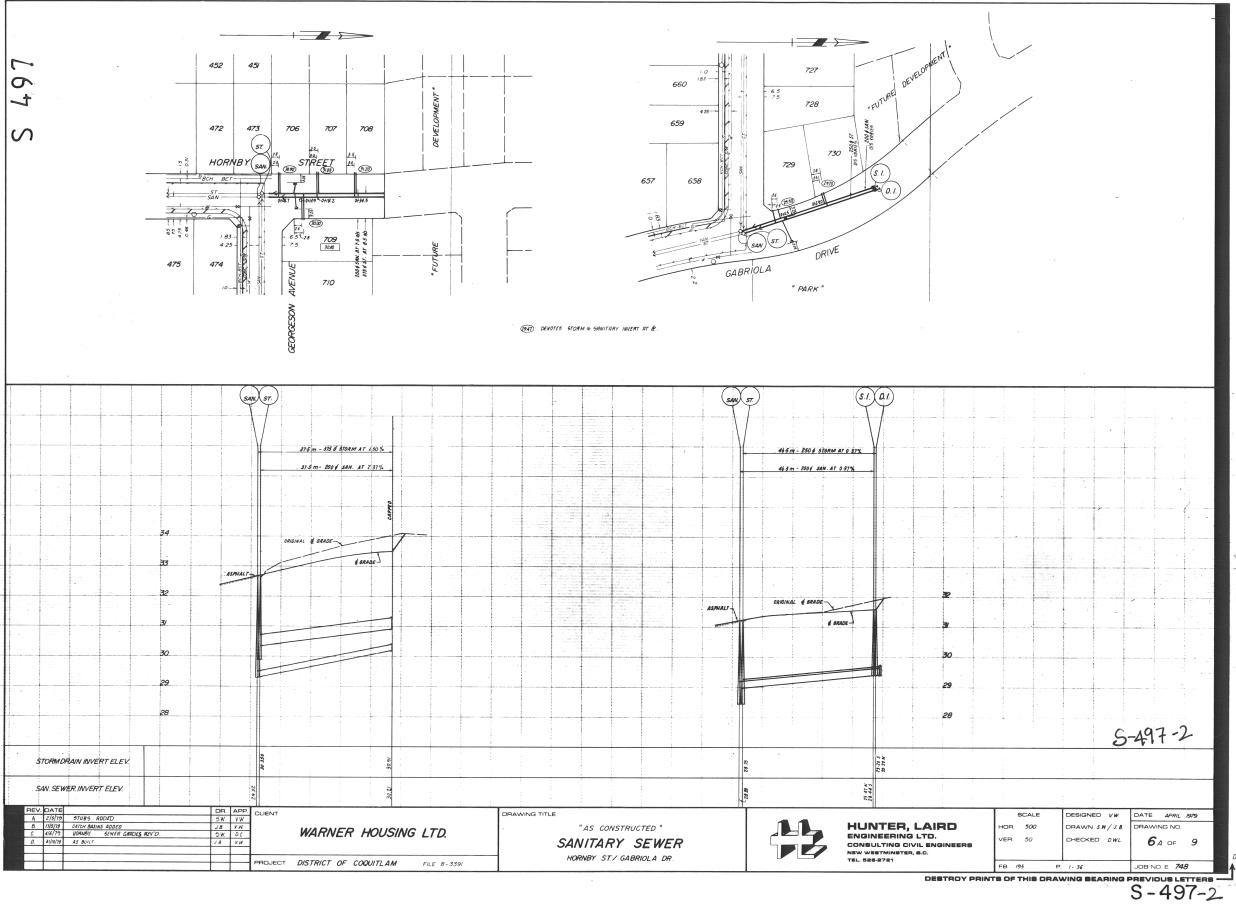


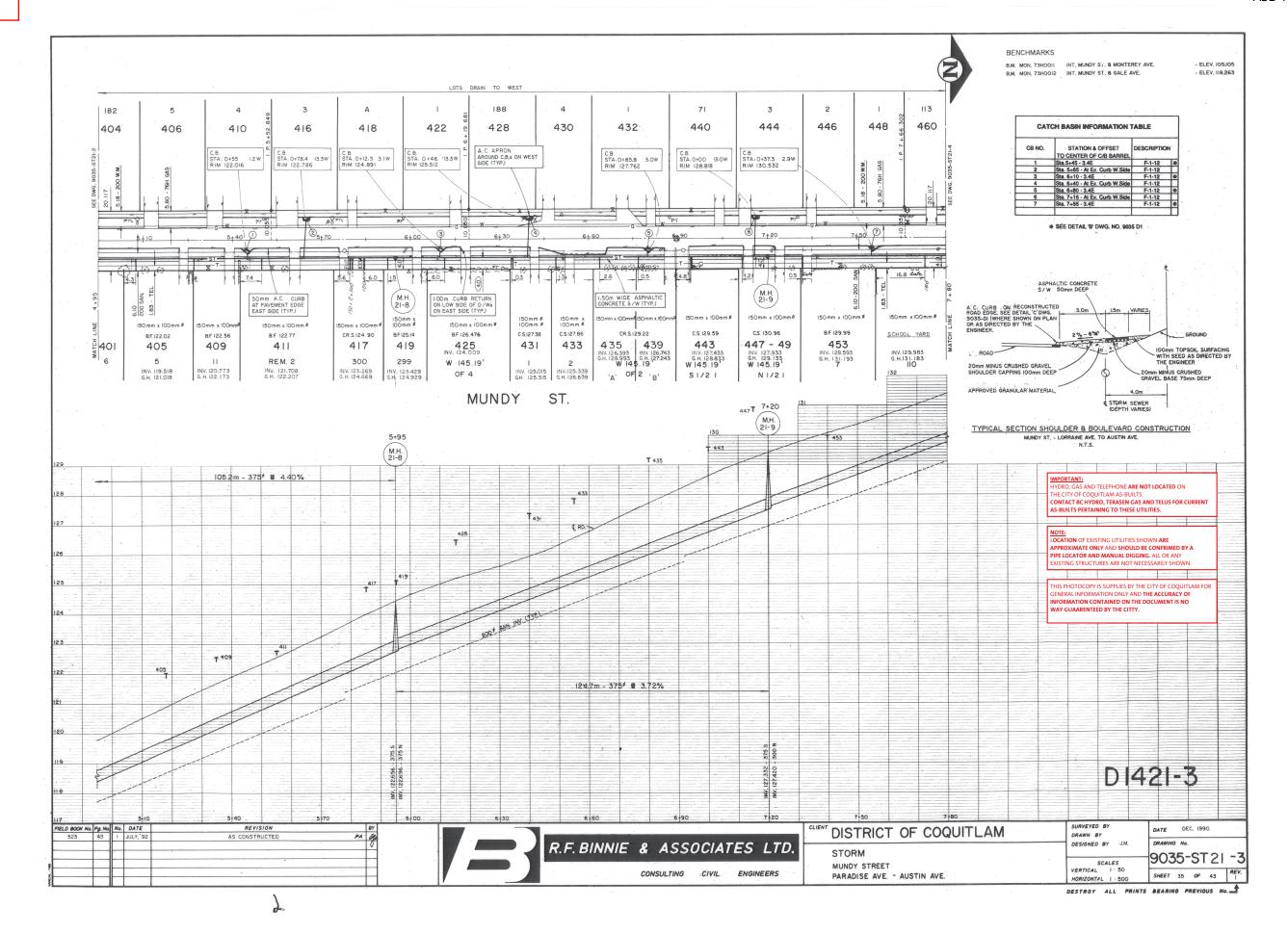


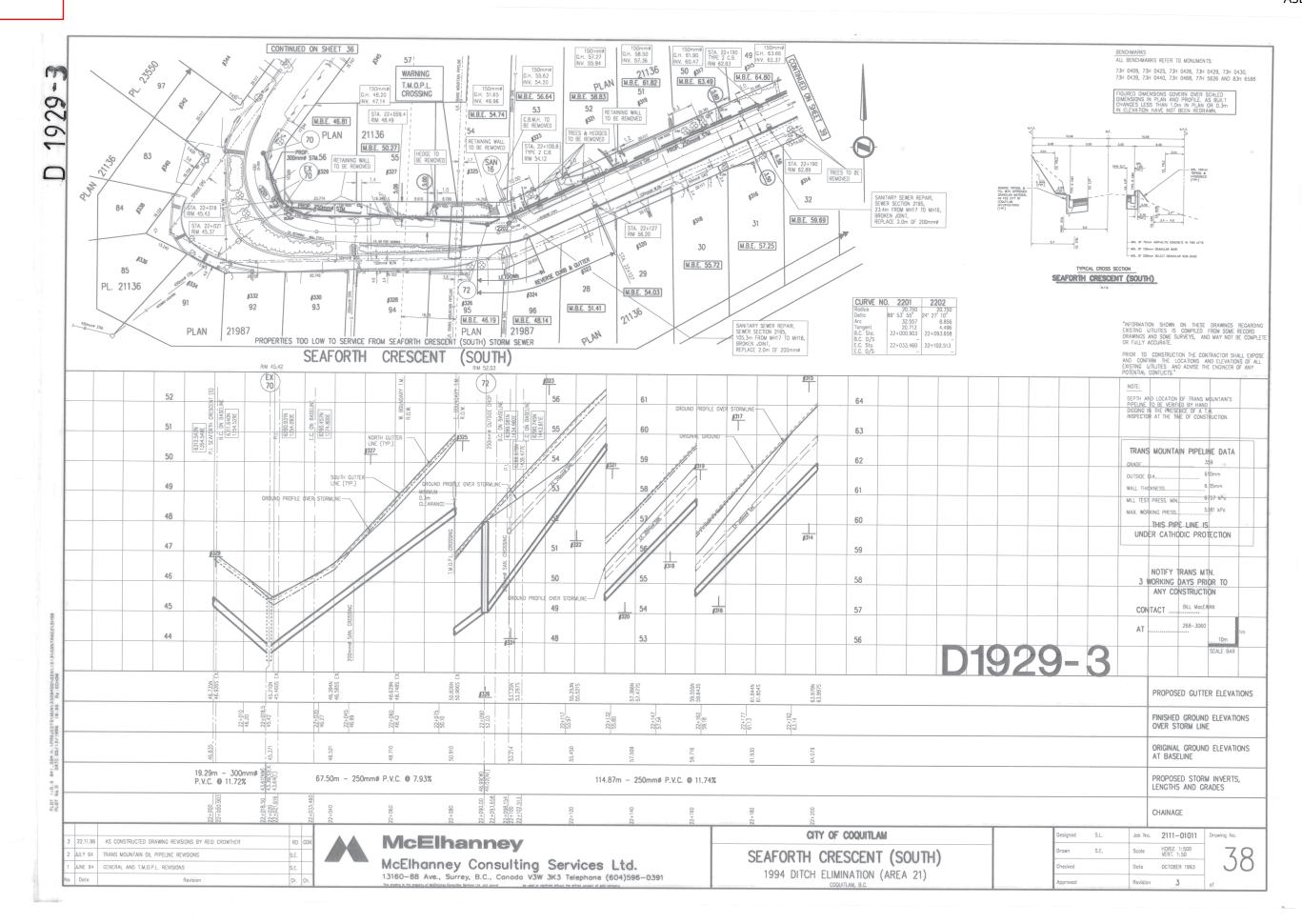


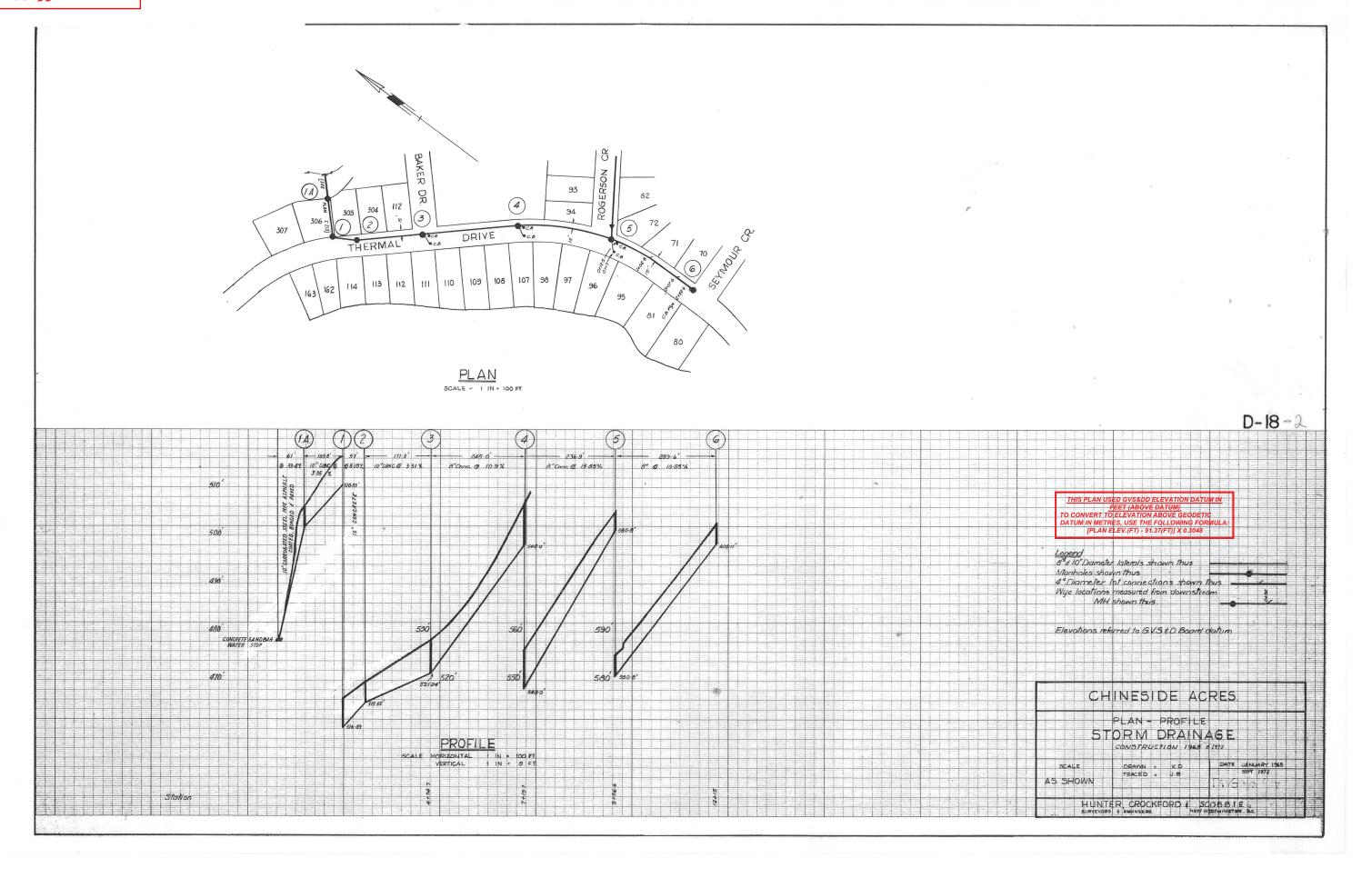


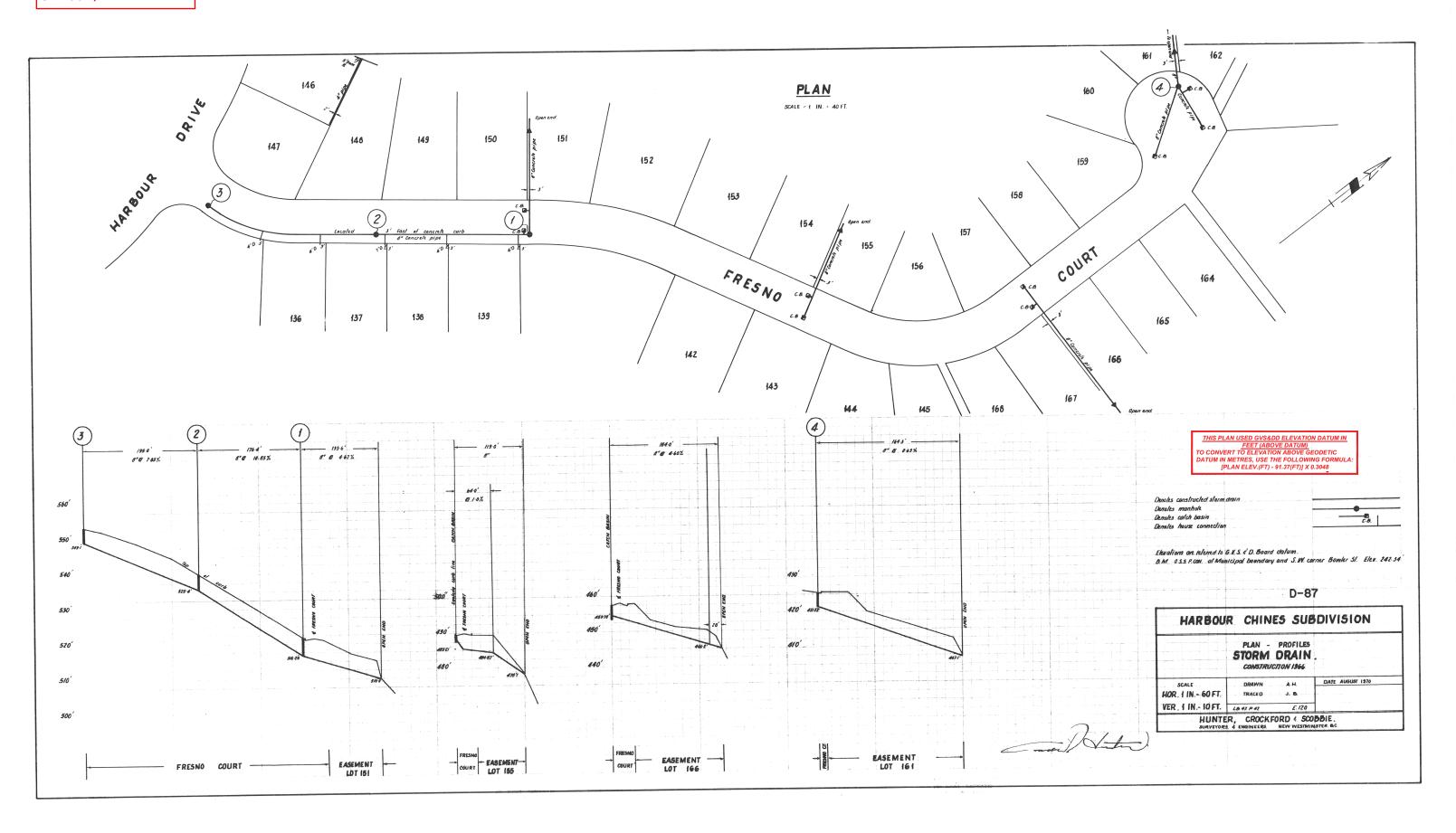


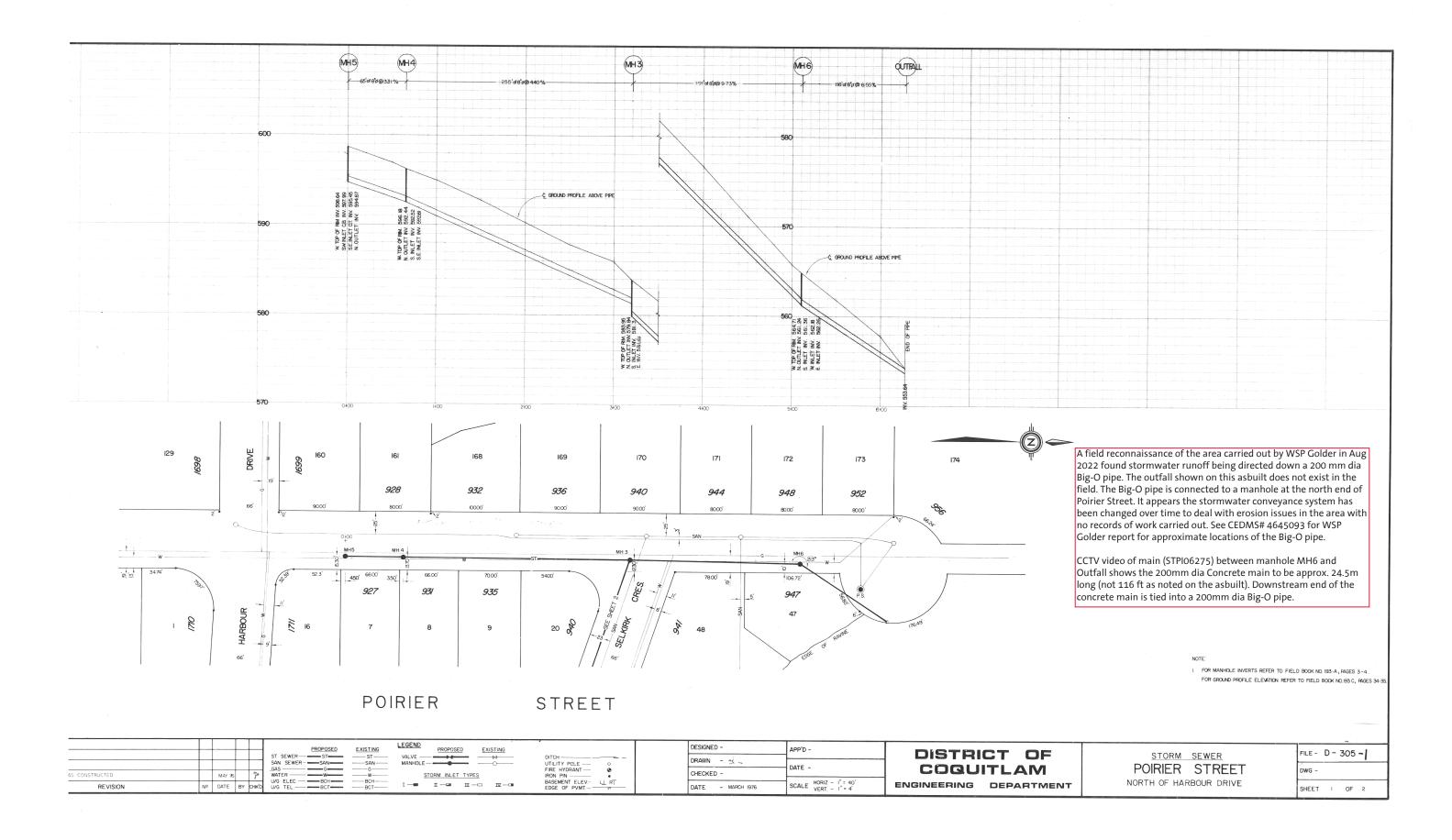


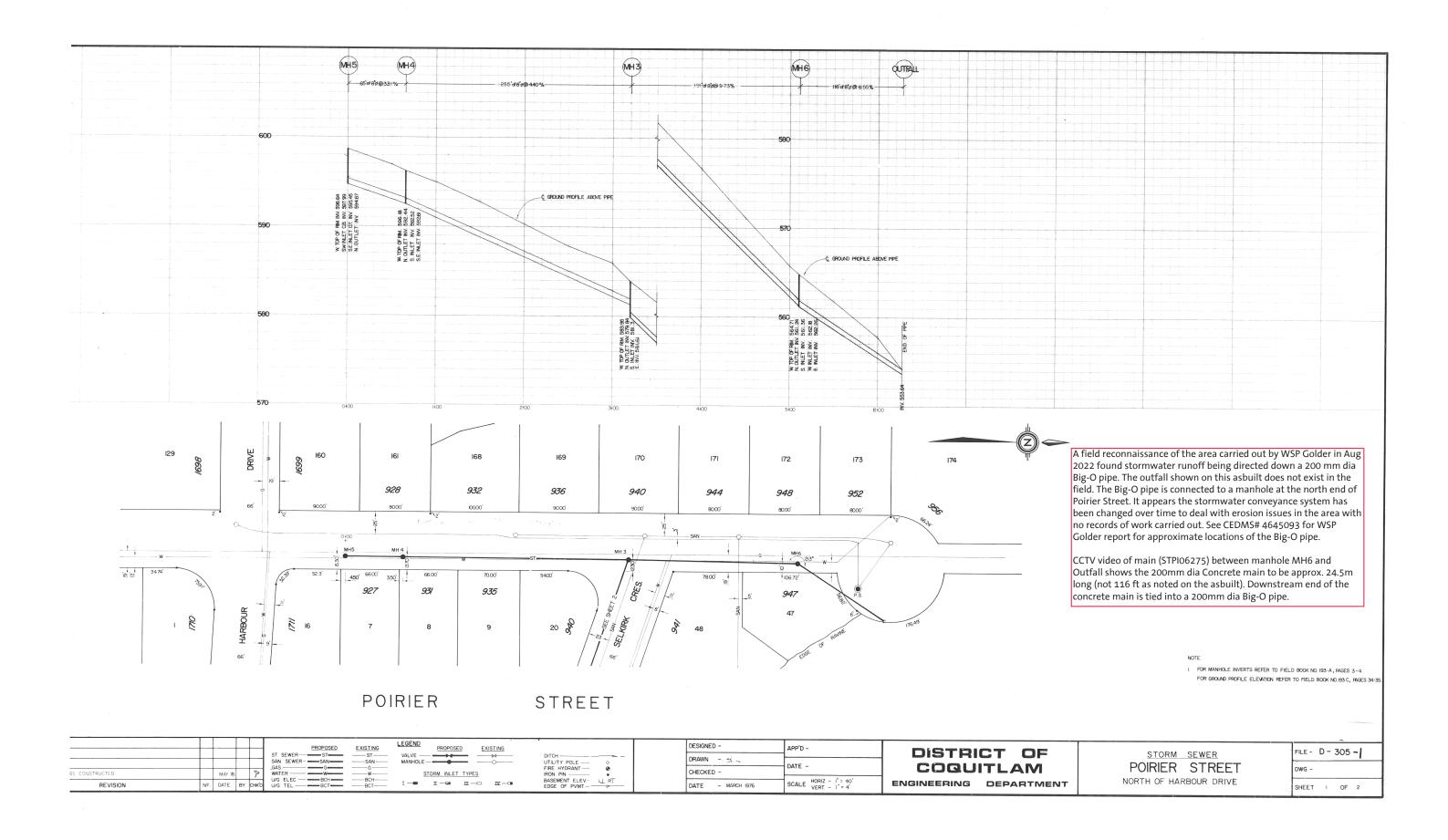


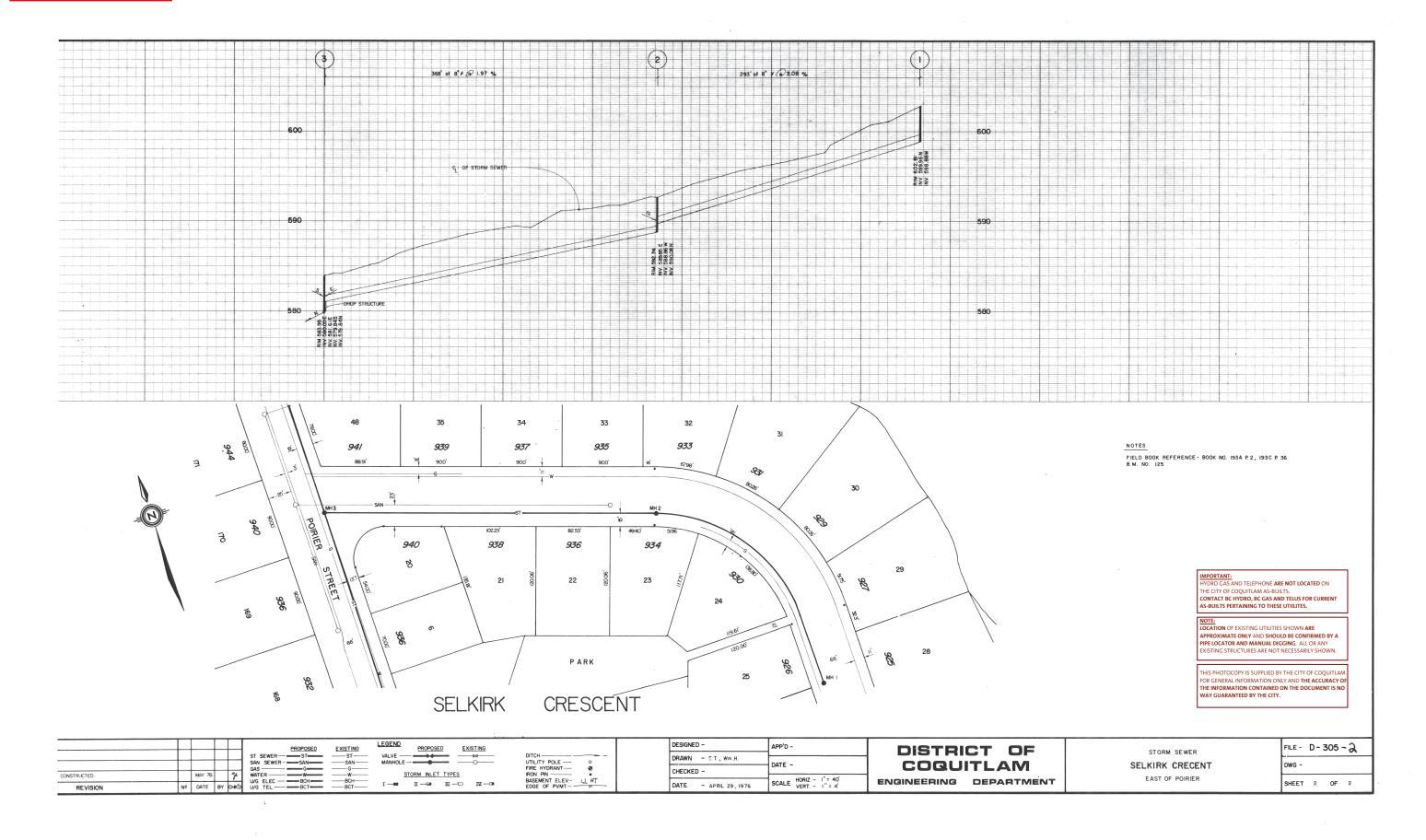


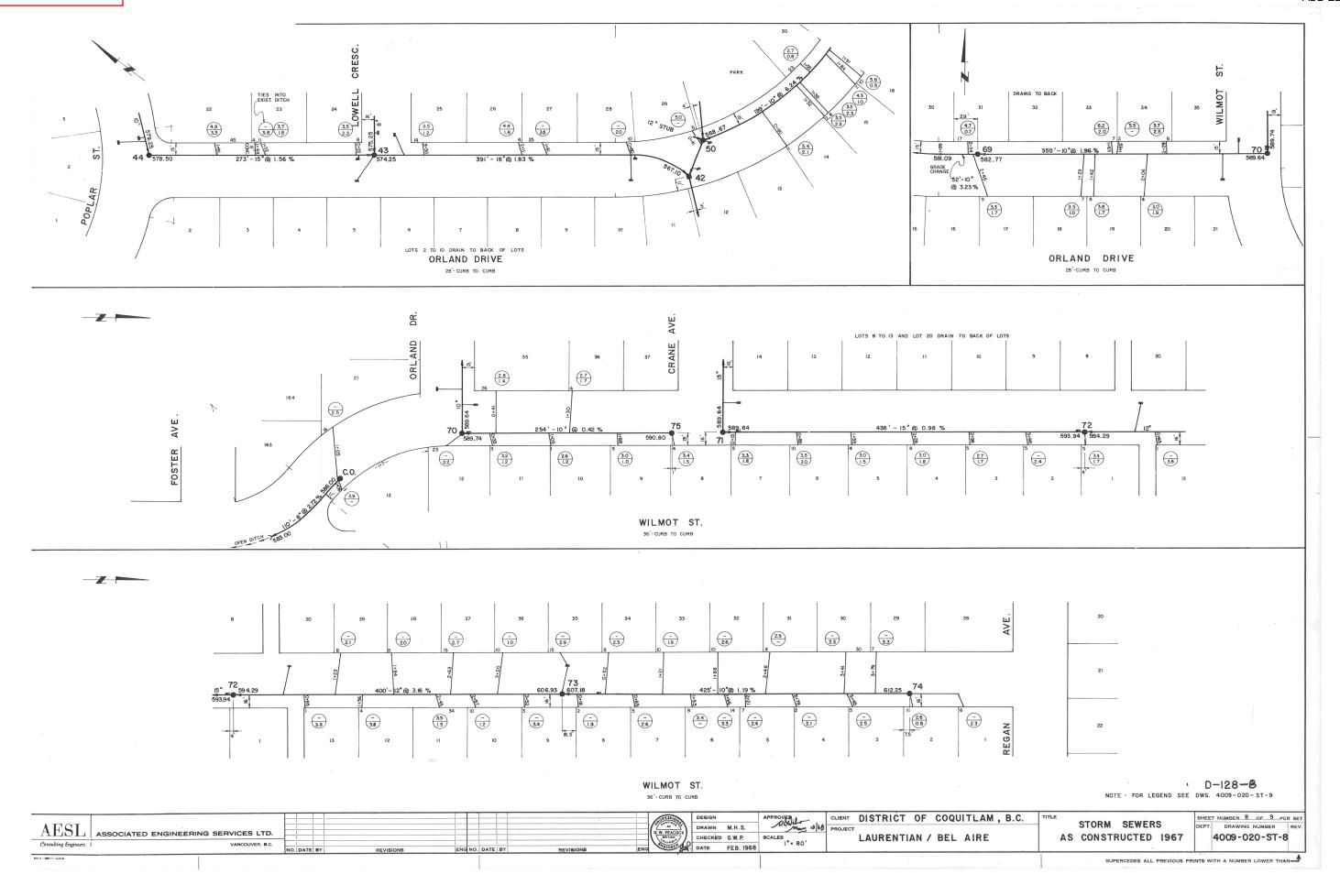


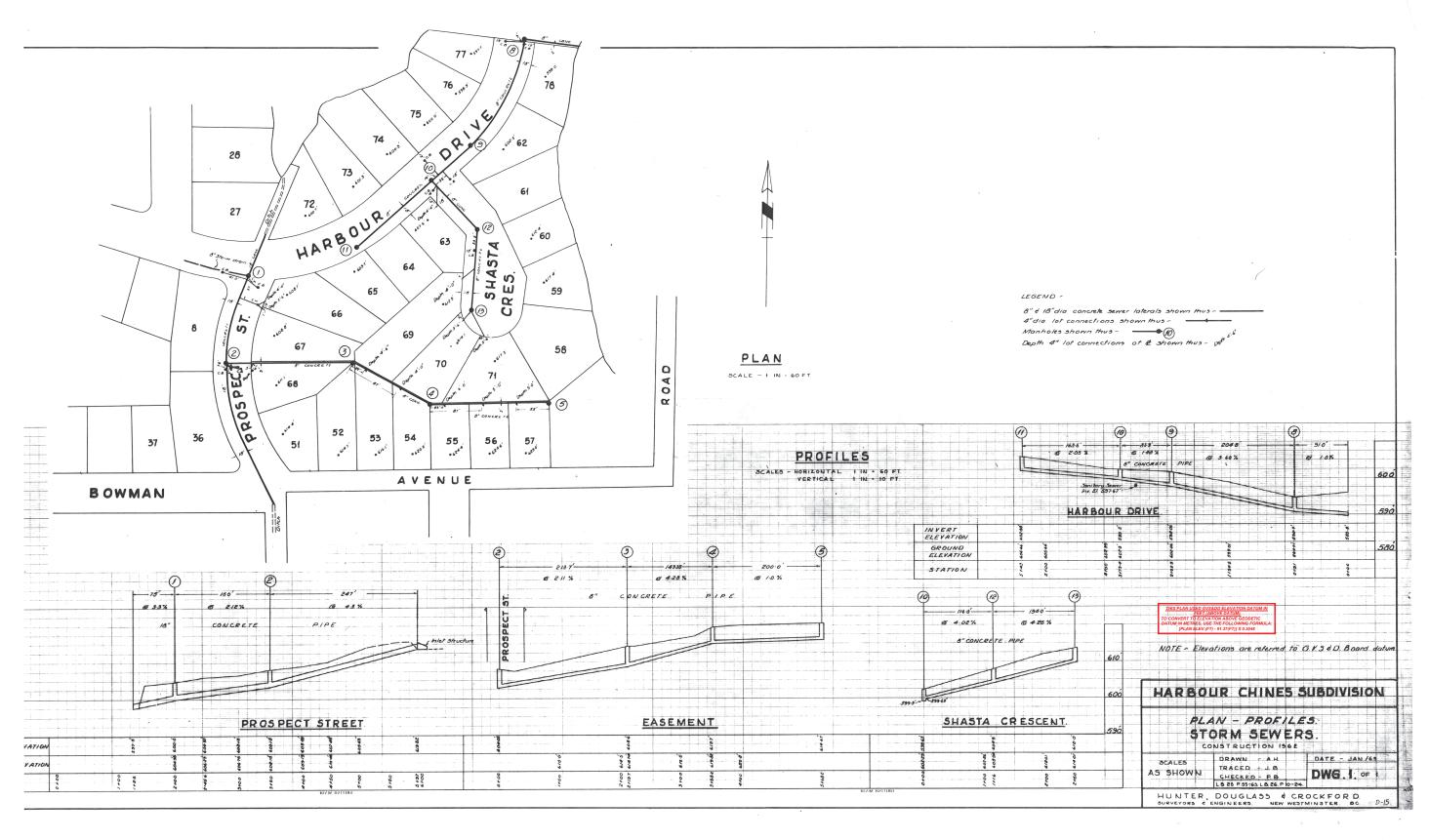


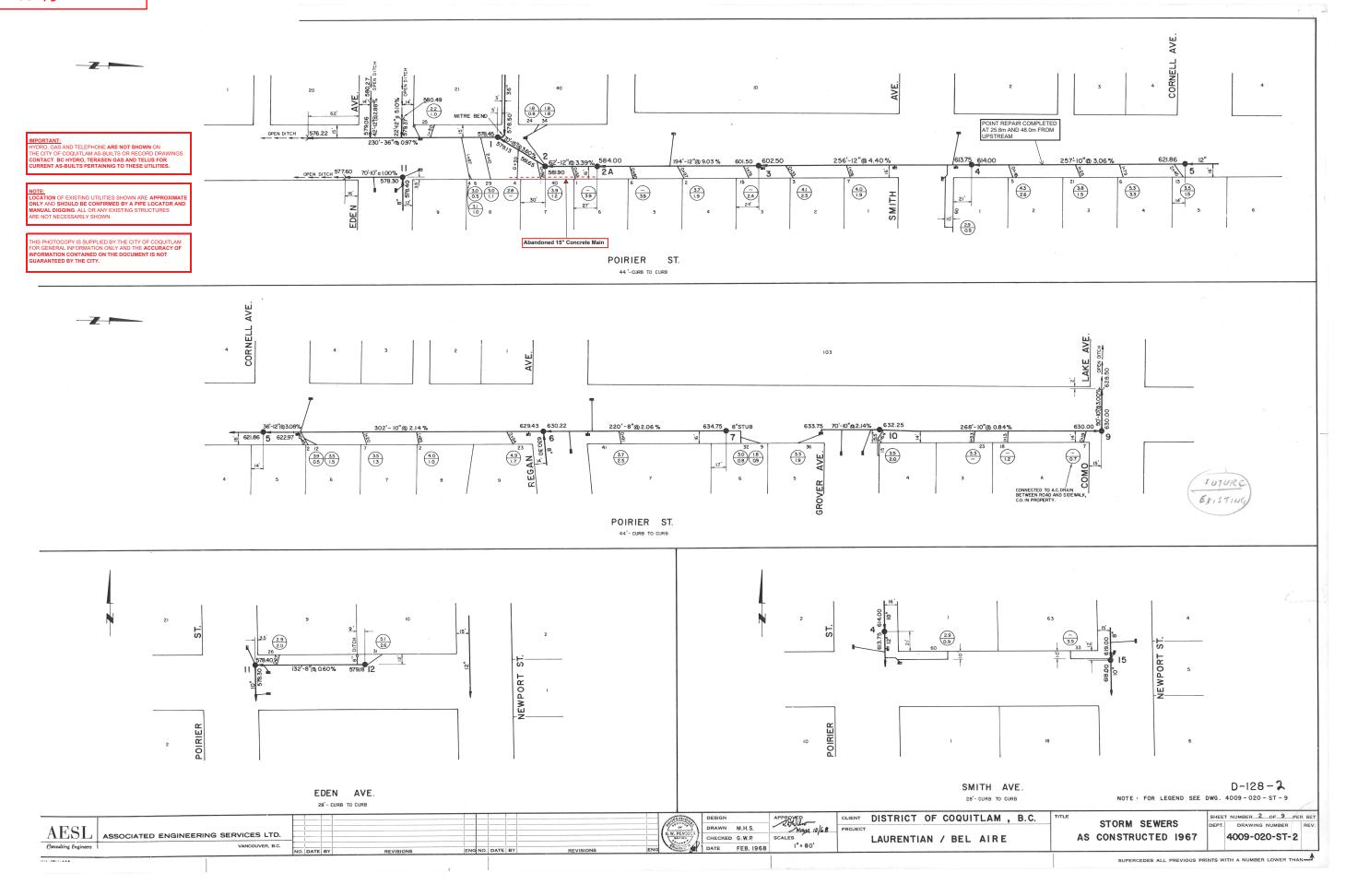


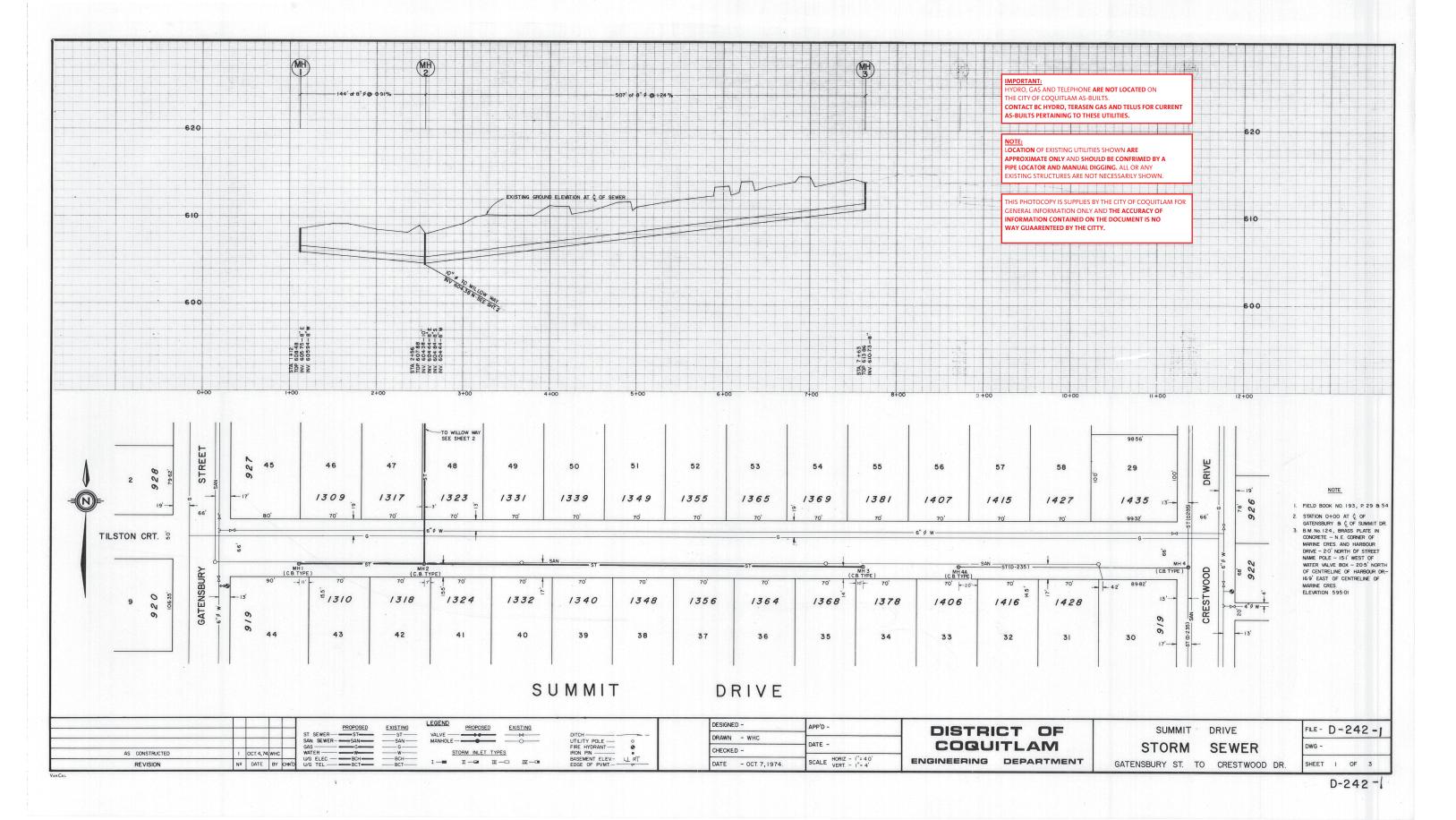


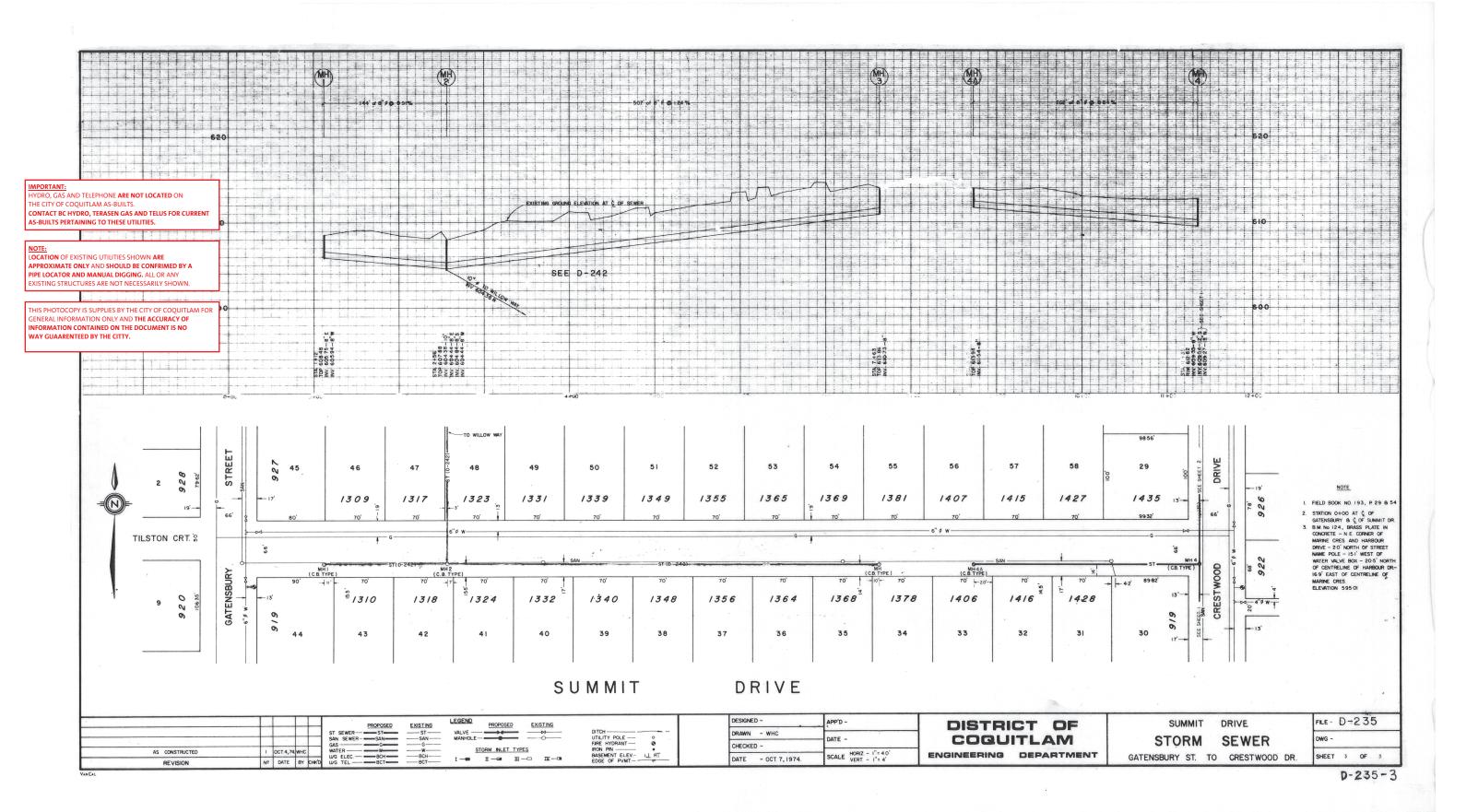


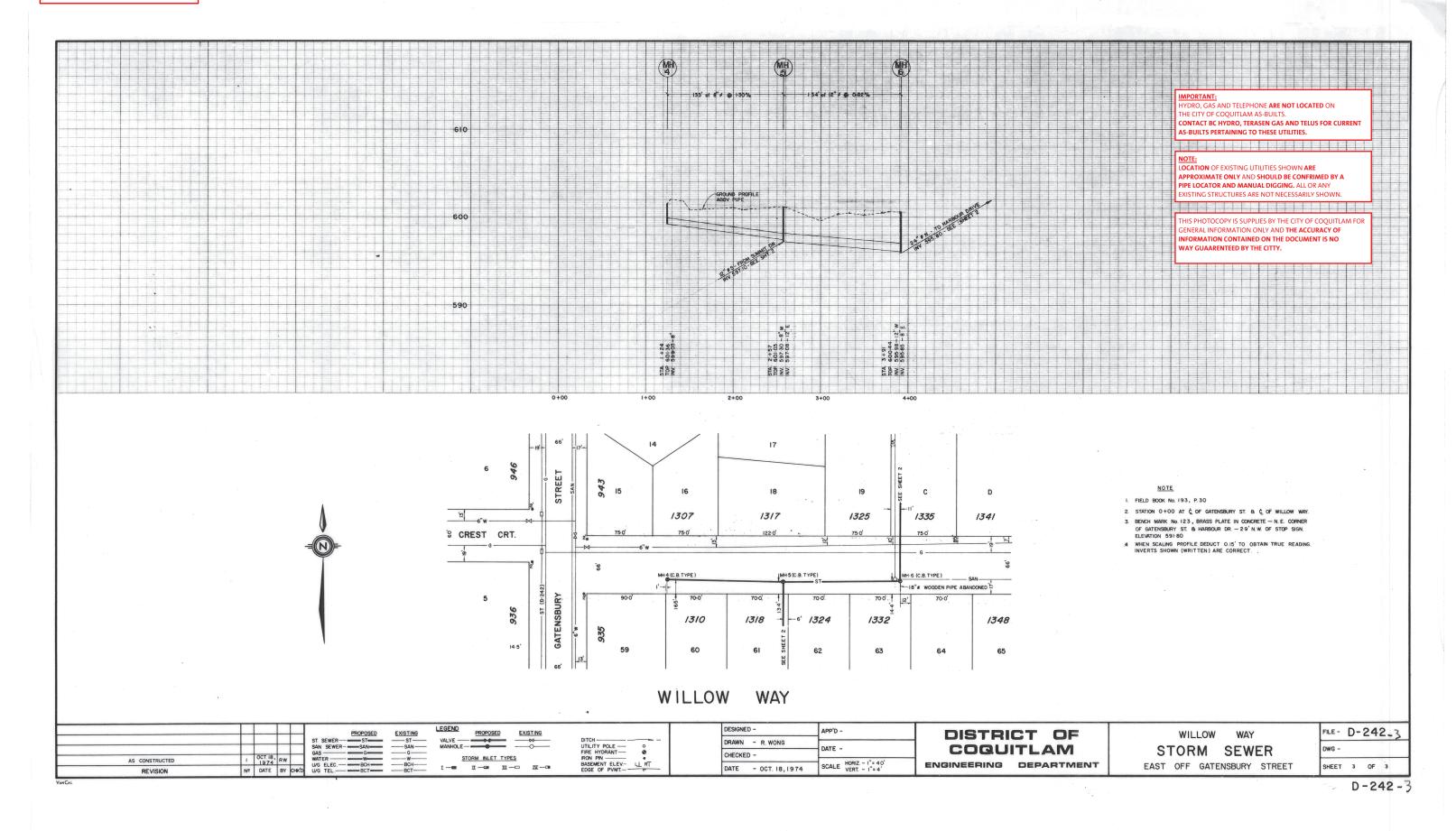


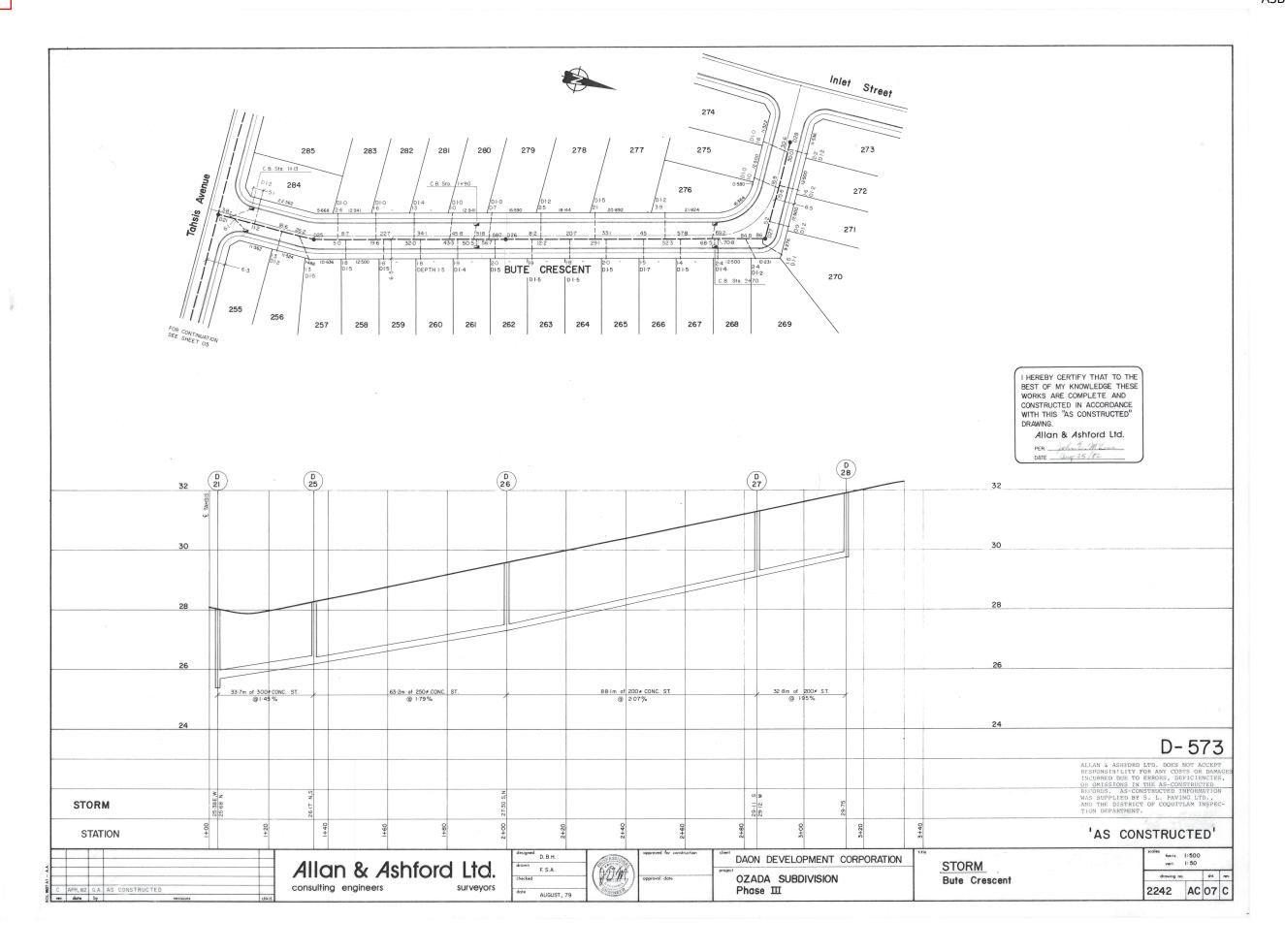


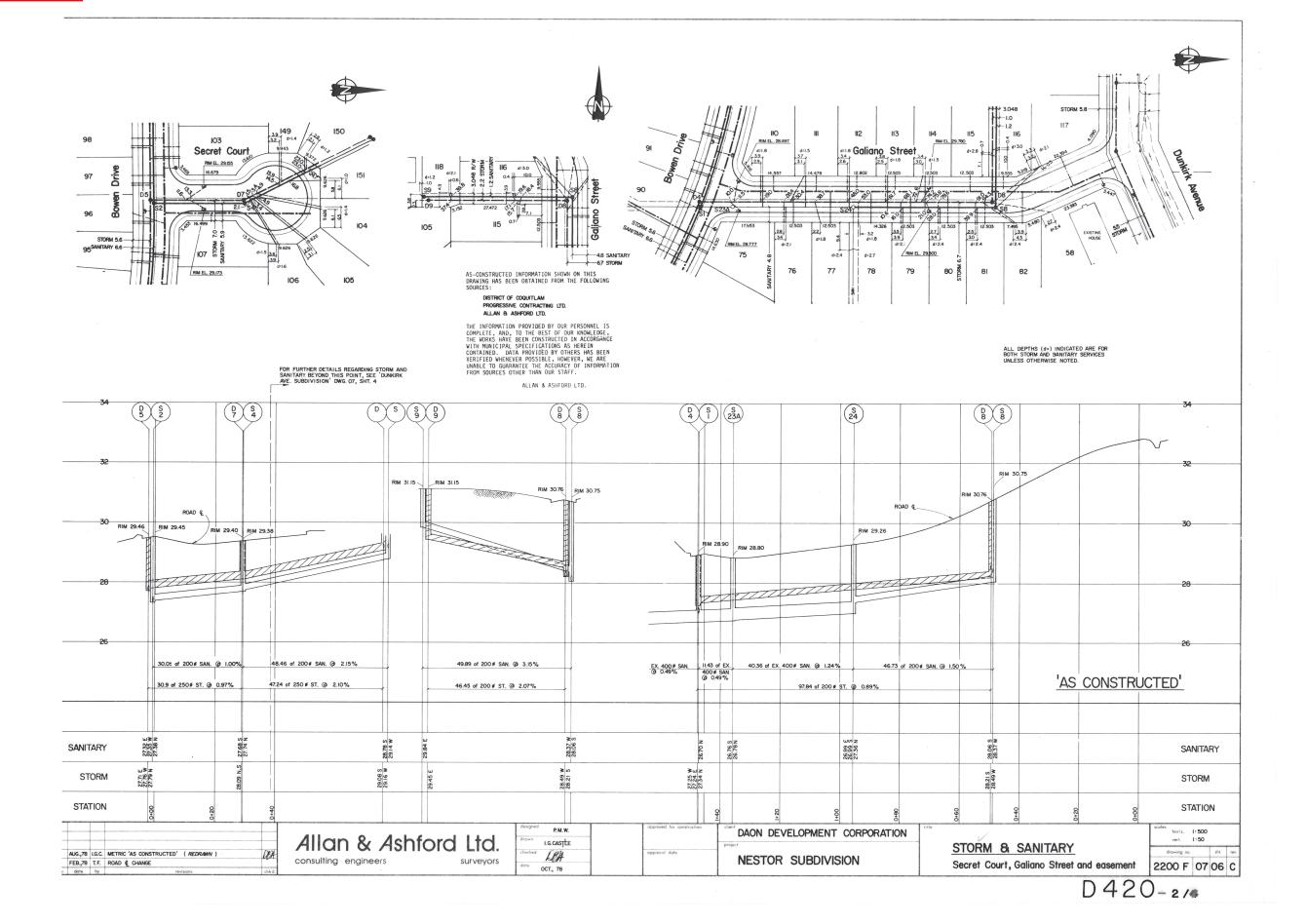


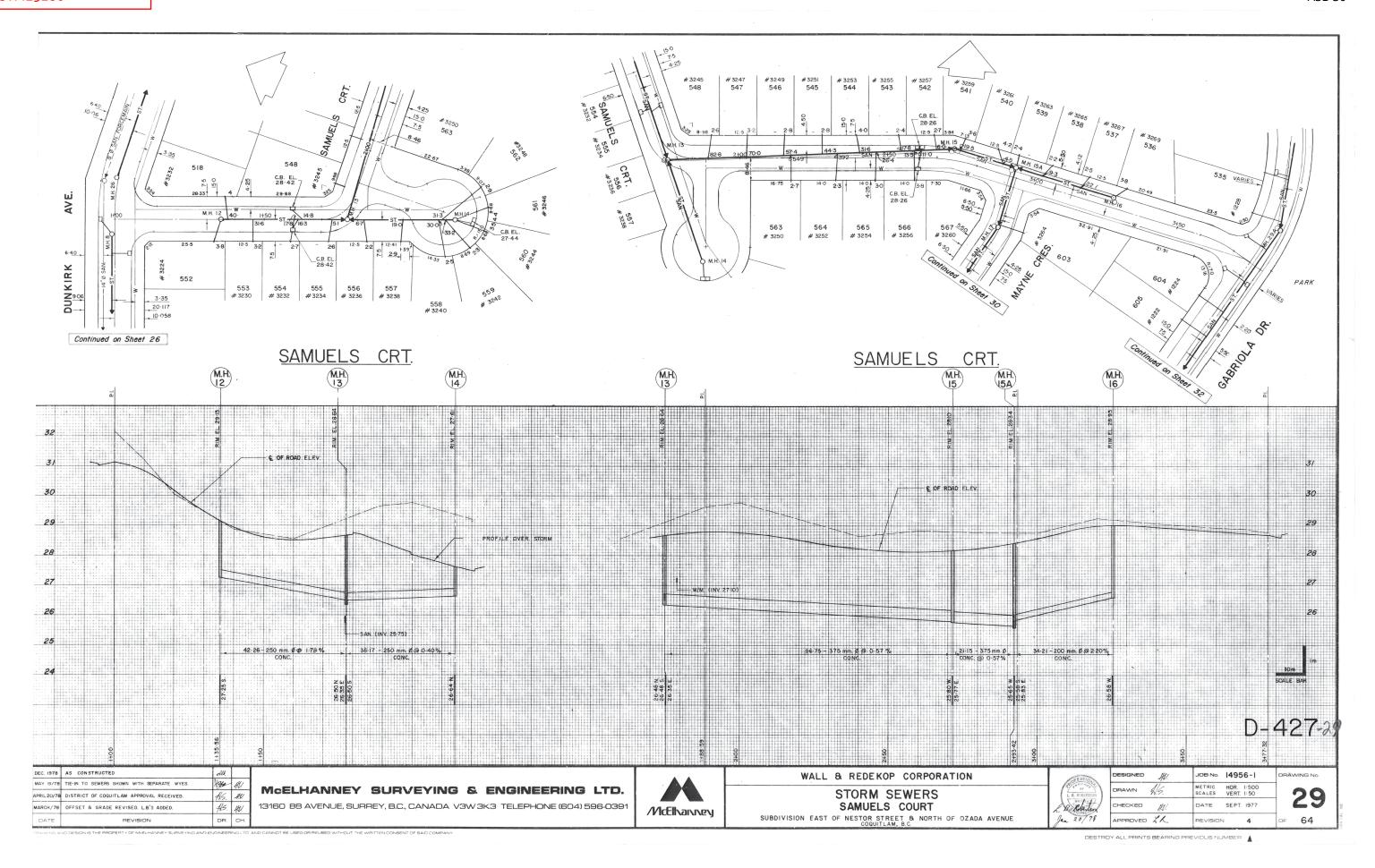


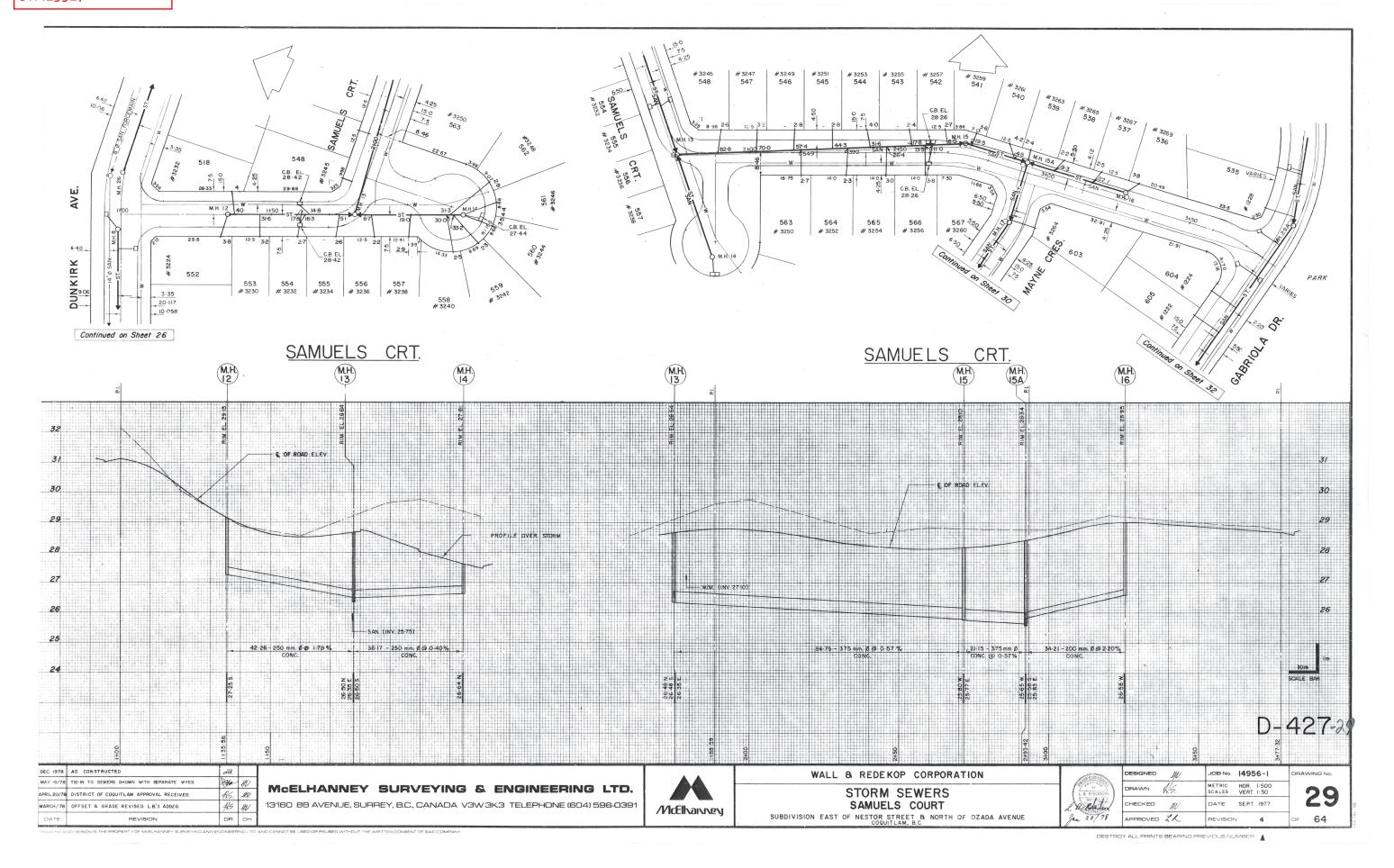












Appendix D -CCTV Inspection Video File Links

- Link 1
- Link 2
- Link 3
- Link 4
- Link 5

Appendix E - CCTV Inspection Reports



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		
P/O No.		PSR		D	ate / Time
	SNP100083			Dec 5, 2023 10:02:00 AM	1
	Street		City	Upst	ream MH No.
KUGLER AVE		COQUITLAM		SNMH04462	
	Location Details			Downstream MH No.	
			SNMH04302		
USMF	I Rim to Invert	USMH Gr	ade to Invert	USMI	l Rim to Grade
2.00					
DSMF	I Rim to Invert	DSMH Gr	ade to Invert	DSMI	l Rim to Grade
1.87					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	200		С
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
VCP			2.50		108.90
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI00083-35396.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	12/05/2023		1	Α	
	Project	Addit	ional Info	Re	verse Setup
23-005		SYSTEM CORRECTED TO SA	ANITARY		

						Value			Circumferent	ial Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	37.0	АМН					N			SNMH04462		Manhole
2	0.00	47.0	MWL				5	N					Water Level
3	7.60	129.0	TFA		100			N	2				Tap Factory Active
4	17.60	211.0	ТВ		100			N	10				Tap Break-in
5	19.80	243.0	TFC		100			N	10				Tap Factory Capped
6	32.30	333.0	TBA		100			N	10				Tap Break-in Active
7	34.10	361.0	ТВ		100			N	2				Tap Break-in
8	40.00	401.0	TFC		100			N	10				Tap Factory Capped
9	53.80	489.0	TF		100			N	2				Tap Factory
10	59.60	528.0	TFA		100			N	2				Tap Factory Active
11	91.70	739.0	CL					Y	1				Crack Longitudinal
12	91.90	750.0	В					Y	2				Broken
13	99.60	787.0	MMC					N			PVC		Material Change
14	101.80	798.0	MMC					N			VC		Material Change
15	103.00	809.0	JOM					N					Joint Offset Medium
16	103.60	830.0	MMC					N			PVC		Material Change



9	Surveyed By		Ce	ertificate No.		Own	ıer		Custo	mer	Drainage Area		Sheet No.			
N FOLSO	M		U-0319-7	70303779					CITY OF COQL	JITLAM						
	P/O No.					PSI	2					Date / 1	lime .			
			SNPI0008	33							Dec 5, 2023 10:02:0	00 AM				
		Stree	t					(ity			Upstream MH No.				
KUGLER.	AVE				COÓNI	ΓLAM					SNMH04462					
			Loca	tion Details							Downstream MH N	о.				
									SNMH04302							
		USMH Rim t	o Invert					USMH Gra	ide to Invert			USMH Rim	to Grade			
2.00																
		DSMH Rim t	o Invert					DSMH Gra	ide to Invert			DSMH Rim	to Grade			
1.87																
	Sewer Use			Direction		Flow Co	ontrol		Heig	ht	Width		Shape			
			Downstr	eam	N				200				С			
	M	aterial			Lining M	ethod			Pipe Joint	Length	Total Length		Length Surveyed			
VCP									2.50				108.90			
	Year Laid		Υe	ear Renewed		Media				P	urpose		Sewer Cat			
					SNP100	083-35	396.	MP4	F							
	re-Cleaning		D	ate Cleaned		W/C) #		Weat	her	Location		Pressure V			
?			12/05/20	023					1		Α					
		Projec	:t						onal Info			Reverse	Setup			
23-005					SYSTEN	1 CORR	ECTE	D TO SA	NITARY							
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description			
17	105.60	842.0	MMC					N			VC		Material Change			
18	107.80	861.0	TF		200			N	6		DROP STRUCTURE		Tap Factory			
19	108.90	880.0	AMH					N			SNMH04302		Manhole			



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		
P/O No.		PSR		D	ate / Time
	SNPI00285			Dec 5, 2023 12:03:00 PM	
	Street		City	Upst	ream MH No.
BRUNETTE		COQUITLAM		SNMH06784	
	Location Details			Downstream MH No.	
			SNMH06783		
USMH	Rim to Invert	USMH Gr	ade to Invert	USMF	l Rim to Grade
2.54					
DSMH	Rim to Invert	DSMH Gr	ade to Invert	DSMF	l Rim to Grade
2.69					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Upstream	N	200		С
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
VCP			2.50		62.80
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI00285-35405.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	12/05/2023		1	A	
	Project	Addit	ional Info	Re	verse Setup
23-005					

						Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	13.0	АМН					N			SNMH06783		Manhole
2	0.00	25.0	MWL				5	N					Water Level
3	5.00	86.0	TFA		100			N	2				Tap Factory Active
4	13.80	139.0	MMC					N			PVC		Material Change
5	14.30	156.0	TFA		100			N	2				Tap Factory Active
6	14.90	167.0	MMC					N			VC		Material Change
7	16.80	198.0	IRJ					Y	6		POSSIBLE		Infiltration Runner Joint
8	27.80	266.0	JOL					N					Joint Offset Large
9	28.20	273.0	MMC					N			PVC		Material Change
10	31.80	302.0	MMC					N			VC		Material Change
11	32.10	313.0	TF		100			N	2				Tap Factory
12	62.80	537.0	АМН					N			SNMH06784		Manhole
13	0.80	570.0	В					N	9	3	at drop structure		Broken



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0
P/O No.		PSR			Pate / Time
20-05-05EWO	SNP100750			Feb 2, 2021 12:00:00 AN	Λ
	Street		City	Ups	tream MH No.
LEA AVE		COQUITLAM		SNMH01074	
	Location Details			Downstream MH No.	
			SNMH01073		
USM	H Rim to Invert	USMH Gr	ade to Invert	USM	H Rim to Grade
3.01					
DSM	H Rim to Invert	DSMH Gr	ade to Invert	DSM	H Rim to Grade
4.05					
Sewer Use	Direction	Flow Control	Height	Width	Shape
Sanitary	Upstream	Not Controlled	200		Circular
Materia	I	Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Vitrified Clay Pipe			1.50		143.20
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI00750-28479.MPG	Routine Assessment		
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V
Jetting	02/02/2021		Dry	Main Highway - Suburban/Rural	0.00
	Project	Addit	ional Info	Re	verse Setup
20-05-05EWO				0	

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	61,341.0	АМН					N			SNMH01073		Manhole
2	0.00	108,579.0	MWL				5	N					Water Level
3	11.20	61,810.0	TFC		150			N	3				Tap Factory Capped
4	24.30	115,688.0	BSV					Y	11				Broken Soil Visible
5	24.30	126,121.0	FC					Y	12	12			Fracture Circumferential
6	51.40	219,416.0	SRI					Y	3				Surface Roughness Increased
7	53.50	223,932.0	TF		100			N	2				Tap Factory
8	55.80	233,328.0	JOL					N					Joint Offset Large
9	56.20	243,212.0	MWLS				5	N			DUE TO OFFSET		Water Level Sag
10	56.20	244,067.0	MMC					N			PVC		Material Change
11	56.50	250,169.0	TFA		200			N	3				Tap Factory Active
12	57.30	256,697.0	MMC					N			VC		Material Change
13	115.00	41,295.0	TF		100			N	2				Tap Factory
14	141.40	46,095.0	RFL					N	3				Roots Fine Lateral
15	141.40	43,204.0	TFD		100			N	3		ROOTS		Tap Factory Defective



	Surveyed By		Cert	ificate No.		Own	er		Cus	tomer		Drainage	e Area	Sheet No.		
N FOLSO	MC	[L	J-0319-70	303779					CITY OF CO	QUITLAM				0		
	P/O No.					PSI	3							Date / Time		
20-05-0	5EWO	9	NP100750									Feb 2, 2021 12	2:00:00 A	AM .		
		Street							City				U	pstream MH No.		
LEA AVE					COÓNI	TLAM						SNMH01074				
			Locatio	on Details								Downstream	MH No.			
									SNMH01073							
		USMH Rim to	Invert					USMH G	rade to Invert				US	MH Rim to Grade		
3.01																
						DSMH G	rade to Invert	MH Rim to Grade								
4.05	5															
	Sewer Use		D	irection		Flow Co	ntrol		Н	eight		Wid	th	Shape		
Sanitary	/	Į	Jpstream		Not Co	ntrolle	d		200					Circular		
	۸	Naterial			Lining M	ethod			Pipe Jo	int Length		Total Le	ength	Length Surveyed		
Vitrified	Clay Pipe								1.50					143.20		
	Year Laid		Year	Renewed		Media	Label					ose		Sewer Cat		
					SNPI00	750-28	3479	.MPG	Routine Ass	essment						
	Pre-Cleaning		Date	e Cleaned		W/C	#		We	eather		Locat	ion	Pressure V		
Jetting		C	2/02/202	1					Dry			Main Highway Suburban/Rui		0.00		
		Project						Addi	tional Info					Reverse Setup		
20-05-0	5EWO											0				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То		Remarks	Photo	Description		
16	143.20	51,633.0	AMH					N			SN	MH01074		Manhole		



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		
P/O No.		PSR		Da	te / Time
	SNPI01117			Mar 14, 2023 12:06:00 PM	Λ
9	treet		City	Upstr	eam MH No.
GUILBY ST		COQUITLAM		SNMH06510	
	Location Details			Downstream MH No.	
			SNMH06504		
USMH F	Rim to Invert	USMH Gra	ade to Invert	USMH	Rim to Grade
2.10					
DSMH F	Rim to Invert	DSMH Gra	ade to Invert	DSMH	Rim to Grade
2.01					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Upstream	N	200		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Reinforced Concrete Pipe					50.80
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI01117-31245.MPG	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	03/14/2023		1	Α	
P	roject	Additi	onal Info	Rev	erse Setup
23-005					

						Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	10.0	AMH					N			SNMH06504	31245-1.jpg	Manhole
2	0.00	20.0	MWL				5	N				31245-2.jpg	Water Level
3	1.30	35.0	SRI	501				Υ	5	7		31245-3.jpg	Surface Roughness Increased
4	14.50	127.0	В					Υ	1	10		31245-4.jpg	Broken
5	14.60	175.0	MGO					N			BREAK POSSIBLY REPAIRED WITH PVC	31245-5.jpg	General Observation
6	50.80	353.0	SRI	F01				Υ	5	7		31245-6.jpg	Surface Roughness Increased
7	50.80	364.0	АМН					N			SNMH06510	31245-7.jpg	Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		
P/O No.		PSR		D	ate / Time
	SNPI01135			Mar 14, 2023 1:49:00 PM	1
	Street		City	Upst	ream MH No.
SUNSET AVE		COQUITLAM		SNMH05129	
	Location Details			Downstream MH No.	
			SNMH05128		
USMH	l Rim to Invert	USMH Gr	ade to Invert	USMF	I Rim to Grade
2.12					
DSMH	I Rim to Invert	DSMH Gr	ade to Invert	DSMH	I Rim to Grade
2.10					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	200		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Reinforced Concrete Pipe	2	·			65.00
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI01135-31249.MPG	F		
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V
?	03/14/2023		1	A	
	Project	Addit	ional Info	Rev	verse Setup
23-005					

						Value		Circumferential Lo		al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	11.0	АМН					N			SNMH05129	31249-1.jpg	Manhole
2	0.00	21.0	MWL				5	N				31249-2.jpg	Water Level
3	1.90	50.0	SRI	501				Υ	6			31249-3.jpg	Surface Roughness Increased
4	21.80	151.0	TF		100			N	9			31249-4.jpg	Tap Factory
5	32.70	209.0	TF		100			N	9			31249-5.jpg	Tap Factory
6	44.60	295.0	BSV					N	12	12		31249-6.jpg	Broken Soil Visible
7	65.00	443.0	АМН					N			SNMH05128	31249-7.jpg	Manhole
8	64.90	459.0	SRI	F01				Υ	6			31249-8.jpg	Surface Roughness Increased



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.			
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM					
P/O No.		PSR		D	ate / Time			
22-014	SNPI02206			Jul 12, 2022 12:00:00 AN	1			
	Street		City	Upst	ream MH No.			
LAURENTIAN		COQUITLAM		SNMH04203				
	Location Details			Downstream MH No.				
			SNMH04204					
USMI	H Rim to Invert	USMH Gr	rade to Invert	USMF	USMH Rim to Grade			
2.30								
DSMI	H Rim to Invert	DSMH Gr	ade to Invert	DSMH	I Rim to Grade			
2.20								
Sewer Use	Direction	Flow Control	Height	Width	Shape			
	Downstream	N	200		Circular			
Materia		Lining Method	Pipe Joint Length	Total Length	Length Surveyed			
Asbestos Cement					102.60			
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat			
		SNPI02206-30309.MPG	F					
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V			
?	07/12/2022		1	A				
	Project	Addit	ional Info	Reverse Setup				
22-014	·				-			

						Value			Circumferentia	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	21.0	АМН					N			SNMH04203		Manhole
2	0.00	36.0	MWL				0	N					Water Level
3	1.30	75.0	TF		100			N	9				Tap Factory
4	3.30	115.0	SRI	501				N	4	8			Surface Roughness Increased
5	13.20	240.0	В					N	11	12	AT BEGINNING OF REPAIR		Broken
6	13.20	276.0	MMC					N			PVC		Material Change
7	13.70	298.0	TF		100			N	9				Tap Factory
8	14.00	338.0	MMC					N			AC		Material Change
9	41.80	478.0	TF		100			N	9				Tap Factory
10	62.00	777.0	HVV					N	12	1	COLLAPSED HOLE		Hole Void Visible
11	62.30	841.0	RPP					N	12	1	HOLE FIXED		Repair Patch
12	63.20	873.0	MMC					N			PVC		Material Change
13	63.80	889.0	TF		100			N	9				Tap Factory
14	64.20	909.0	MMC					N			AC		Material Change
15	85.90	1,006.0	TF		100			N	9				Tap Factory
16	100.10	1,076.0	SRI	F01				N	4	8			Surface Roughness Increased



	Surveyed By	y		Certificate No.			0	wner		Customer	•	Drainage .	Area	Sheet No.	
N FOLS	MC		U-032	19-70303779					C	ITY OF COQUITI	_AM				
P/O No.							ı	PSR					Date / Time		
22-014 SNPI02206												Jul 12, 2022 12:00:00 AM			
Street									City			Ups	stream MH No.		
LAURENTIAN					(OQUI	ΓLAΛ	1			SNMH04203				
				Location Details								Downstream A	ΛΗ No.		
									SN/	MH04204					
		USMH Ri	m to Inver	t					JSMH Grade to	Invert			USM	NH Rim to Grade	
2.30															
	DSMH Rim to Invert				DSMH Grade to Invert						DSMH Rim to Grade				
2.20															
	Sewer Use			Direction		Flow Control				Height	Width	1	Shape		
			Dowr	ıstream	1	N			20	00				Circular	
		Material			ī	Lining Method				Pipe Joint Length		Total Length		Length Surveyed	
Asbesto	s Cement													102.60	
	Year Laid			Year Renewed		Media Label					Pu	rpose Sewer Cat			
					9	NPI02	206-	30309.	ΛPG F						
	Pre-Cleanin	g		Date Cleaned			W	//O #		Weather		Location		Pressure V	
?	? 07/12/2022						1			Α					
Project				Additional Info						Reverse Setup					
22-014															
		1		1							1				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То		Remarks	Photo	Description	
17	102.60	1,098.0	AMH					N		SNMH04		04		Manhole	



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.				
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0				
P/O No.		PSR		D	ate / Time				
22-014	SNPI10378			Apr 27, 2022 12:00:00 A	M				
	Street		City						
HARBOUR		COQUITLAM		SNMH00488					
	Location Details			Downstream MH No.					
			SNMH00485						
USMI	l Rim to Invert	USMH Gr	ade to Invert	USMI	MH Rim to Grade				
DSMI	I Rim to Invert	DSMH Gr	ade to Invert	DSMH Rim to Grade					
Sewer Use	Direction	Flow Control	Height	Width	Shape				
Sanitary	Downstream	Not Controlled	300		Circular				
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed				
Reinforced Concrete Pipe	e		2		132.20				
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat				
		SNPI10378-29626.MP4	Routine Assessment						
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V				
letting 04/22/2022			Dry	Main Highway - Suburban/Rural	0.00				
	Project	Addit	ional Info	Reverse Setup					
22-014		PIPE MATERIAL CRRECTED	TO CEMENT	0					

						Value			Circumferentia	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	0.0	АМН					N			SNMH00488		Manhole
2	0.00	17.0	MWL				5	N					Water Level
3	8.10	74.0	IS	S01				Υ	12				Infil Stain
4	14.90	122.0	MWLS				5	N					Water Level Sag
5	22.50	160.0	ISSRB				5	N	11	2			Intruding Sealing Ring Broken
6	29.20	199.0	FL					Υ	1				Fracture Longitudinal
7	29.40	216.0	HSV					N	1				Hole Soil Visible
8	49.70	302.0	MMC					N			PVC		Material Change
9	50.70	319.0	TFA		100			N	10				Tap Factory Active
10	51.50	332.0	MMC					N			AC		Material Change
11	68.00	402.0	MMC					N			PVC		Material Change
12	69.70	412.0	MMC					N			AC		Material Change
13	75.30	437.0	MMC					N			PVC		Material Change
14	76.80	449.0	TFA		100			N	10				Tap Factory Active
15	76.90	460.0	MMC					N			AC		Material Change



N FOLSOM P/O No. PSR Date / Time Apr 27, 2022 12:00:00 AM Street City Upstream MH No. COQUITLAM SNMH00488 Downstream MH No. SNMH00485 USMH Rim to Invert USMH Grade to Invert USMH Grade to Invert DSMH Rim to Invert Sewer Use Direction Sewer Use Direction Not Controlled Sanitary Downstream Not Controlled Sanitary Downstream Not Controlled Source Material Lining Method Pipe Joint Length Total Length Reinforced Concrete Pipe	de			
22-014 SNPI10378 Street City Upstream MH No. COQUITLAM SNMH00488 Location Details SNMH00485 USMH Rim to Invert USMH Grade to Invert USMH Rim to Grade DSMH Rim to Invert DSMH Grade to Invert DSMH Rim to Grade Sewer Use Direction Flow Control Height Width Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length	de			
Street City Upstream MH No HARBOUR COQUITLAM SNMH00488 Location Details Downstream MH No. SNMH00485 USMH Rim to Invert USMH Grade to Invert USMH Rim to Gra DSMH Rim to Invert DSMH Grade to Invert DSMH Rim to Gra Sewer Use Direction Flow Control Height Width Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length	de			
HARBOUR Location Details Downstream MH No. SNMH00485 USMH Rim to Invert USMH Grade to Invert DSMH Rim to Invert DSMH Grade to Invert DSMH Grade to Invert DSMH Grade to Invert Sewer Use Sewer Use Direction Flow Control Not Controlled Not Controlled Material Downstream Flow Control Flow Contr	de			
Location Details SNMHO0485				
SNMH00485 USMH Rim to Invert USMH Rim to Invert USMH Grade to Invert USMH Grade to Invert DSMH Grade to Invert DSMH Rim to Gra Width Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length				
USMH Rim to Invert USMH Grade to Invert USMH Rim to Gra DSMH Rim to Invert DSMH Grade to Invert DSMH Rim to Gra Sewer Use Direction Flow Control Height Width Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length				
DSMH Rim to Invert DSMH Grade to Invert DSMH Rim to Grade Sewer Use Direction Flow Control Height Width Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length				
Sewer Use Direction Flow Control Height Width Sanitary Downstream Not Controlled 300 Circl Material Lining Method Pipe Joint Length Total Length	ıde			
Sanitary Downstream Not Controlled 300 Circle Material Lining Method Pipe Joint Length Total Length	DSMH Rim to Grade			
Fanitary Downstream Not Controlled 300 Circled Adterial Lining Method Pipe Joint Length Total Length	Shape			
Material Lining Method Pipe Joint Length Total Length				
	Length Surveyed			
Year Laid Year Renewed Media Label Purpose	Sewer Cat			
SNPI10378-29626.MP4 Routine Assessment				
Pre-Cleaning Date Cleaned W/O # Weather Location	Pressure V			
etting 04/22/2022 Dry Main Highway - Suburban/Rural 0.00)			
Project Additional Info Reverse Setup				
2-014 PIPE MATERIAL CRRECTED TO CEMENT 0	·			
Line# Distance Video Ref Code Continuous Defect 1st 2nd % Joint At/From To Remarks Photo				
Line# Distance Video Ref Code Continuous Defect 1st 2nd % Joint At/From To Remarks Photo	Description			

Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
16	91.20	530.0	MMC					N			PVC		Material Change
17	93.30	545.0	TF		100			N	10				Tap Factory
18	95.00	608.0	MMC					N			AC		Material Change
19	97.50	620.0	MWLS				5	N					Water Level Sag
20	107.10	662.0	MMC					N			PVC		Material Change
21	115.80	697.0	TF		100			N	10				Tap Factory
22	116.20	709.0	MMC					N			AC		Material Change
23	122.10	743.0	ISSR				0	N	11	1			Intruding Sealing Ring
24	125.30	776.0	TFC		100			N	10				Tap Factory Capped
25	132.20	823.0	АМН					N			SNMH00485		Manhole
26	132.00	841.0	IS	F01				Υ	12				Infil Stain



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
ROSS S	U-0520-70309443		CITY OF COQUITLAM		
P/O No.		PSR		Dat	e / Time
	SNPI11186			Apr 14, 2023 1:58:00 PM	
	Street		City	Upstre	am MH No.
FLEET ST		COQUITLAM		SNMH01240	
	Location Details			Downstream MH No.	
			SNMH01241		
USMH F	Rim to Invert	USMH Gra	ade to Invert	USMH I	Rim to Grade
DSMH I	Rim to Invert	DSMH Gra	ade to Invert	DSMH I	Rim to Grade
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	200		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Asbestos Cement					51.00
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI11186-31944.MP4	F		
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V
?			1	С	
P	roject	Additi	onal Info	Reve	rse Setup
23-005					

						Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	12.0	АМН					N			SNMH01240	31944-1.jpg	Manhole
2	0.00	22.0	MWL				0	N				31944-2.jpg	Water Level
3	21.70	136.0	MMC					N			PVC	31944-3.jpg	Material Change
4	24.20	179.0	MMC					N			AC	31944-4.jpg	Material Change
5	24.90	197.0	JSL					N				31944-5.jpg	Joint Separated Large
6	24.90	242.0	Н					Υ	5	8		31944-6.jpg	Hole
7	36.50	324.0	TF		100			N	9			31944-7.jpg	Tap Factory
8	51.00	414.0	АМН					N			SNMH01241	31944-8.jpg	Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
Linton S	U-0317-07006319		CofC		
P/O No.		PSR		D	ate / Time
	SNPI11199			Mar 31, 2023 7:44:00 AM	1
	Street		City	Upst	ream MH No.
DAYBREAK AVE		COQUITLAM		SNMH01271	
	Location Details			Downstream MH No.	
			SNMH01272		
USMF	I Rim to Invert	USMH Gr	ade to Invert	USMF	I Rim to Grade
3.51					
DSMF	I Rim to Invert	DSMH Gr	ade to Invert	DSMH	I Rim to Grade
3.42					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	200		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
CP			2.50		40.60
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		SNPI11199-31504.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	03/31/2023		5	Α	
	Project	Addit	ional Info	Rev	verse Setup
23-005					

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	29.0	АМН					N			SNMH01271	31504-1.jpg	Manhole
2	0.00	39.0	MWL				5	N				31504-2.jpg	Water Level
3	1.30	59.0	ТВ		100			N	10			31504-3.jpg	Tap Break-in
4	8.40	117.0	ТВ		100			N	10			31504-4.jpg	Tap Break-in
5	27.40	273.0	JOL					N				31504-5.jpg	Joint Offset Large
6	27.60	290.0	MMC					N			PVC	31504-6.jpg	Material Change
7	29.60	319.0	MMC					N			СР	31504-7.jpg	Material Change
8	40.60	420.0	AMH					N			SNMH01272	31504-8.jpg	Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.	
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM			
P/O No.		PSR		D	ate / Time	
	SNPI11837			Nov 17, 2023 11:36:00 A	M	
	Street		City	Upst	ream MH No.	
GROVER AVE		COQUITLAM		SNMH02148		
	Location Details	,		Downstream MH No.		
			SNMH02149			
USMI	l Rim to Invert	USMH G	rade to Invert	USMF	I Rim to Grade	
DSMI	l Rim to Invert	DSMH G	rade to Invert	DSMF	I Rim to Grade	
Sewer Use	Direction	Flow Control	Height	Width	Shape	
	Downstream	N	200		C	
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed	
PVC		2	4.00		94.00	
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat	
		SNPI11837-35122.MP4	F			
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V	
?	11/06/2023		1	Α		
	Project	Addit	ional Info	Reverse Setup		
23-005						

						Value			Circumferenti	ial Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	12.0	АМН					N			SNMH02148		Manhole
2	0.00	28.0	MWL				5	N					Water Level
3	3.70	69.0	FM					N	9	11			Fracture Multiple
4	9.00	100.0	MWLS				5	N					Water Level Sag
5	13.20	120.0	MWLS				5	N					Water Level Sag
6	14.90	132.0	TF		100			N	3				Tap Factory
7	34.00	216.0	TF		100			N	3				Tap Factory
8	55.20	309.0	MWLS				5	N					Water Level Sag
9	57.10	329.0	MGO					N			UNMARKED MANHOLE		General Observation
10	57.50	347.0	MMC					N			AC		Material Change
11	66.40	390.0	MWLS				5	N					Water Level Sag
12	75.70	442.0	MMC					N			PVC		Material Change
13	76.20	469.0	TF		100			N	2				Tap Factory
14	76.80	486.0	MMC					N			AC		Material Change
15	91.80	563.0	MWLS				5	N					Water Level Sag
16	94.00	577.0	AMH					N			SNMH02149		Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.	
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM			
P/O No.		PSR		Da	ate / Time	
	SNPI12805			Dec 7, 2023 11:41:00 AM		
	Street		City	Upstı	ream MH No.	
WINTER CR		COQUITLAM		SNMH04467		
	Location Details			Downstream MH No.		
			SNMH04299			
USMF	I Rim to Invert	USMH Gr	rade to Invert	USMH	Rim to Grade	
5.01						
DSMF	I Rim to Invert	DSMH Gr	ade to Invert	DSMH	Rim to Grade	
Sewer Use	Direction	Flow Control	Height	Width	Shape	
	Downstream	N	200		C	
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed	
VCP		•	2.50		27.10	
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat	
		SNPI12805-35422.MP4	F			
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V	
?	12/07/2023		1	Α		
	Project	Addit	ional Info	Reverse Setup		
23-005						

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	8.0	AMH					N			SNMH04467		Manhole
2	0.00	19.0	MWL				5	N					Water Level
3	2.80	49.0	MWLS				5	N					Water Level Sag
4	26.40	197.0	MGP					N					General Photo
5	27.00	290.0	BSV					N	9	3			Broken Soil Visible
6	27.10	338.0	RTB				10	N	9	3	FROM BROKEN HOLE		Roots Tap Barrel
7	27.10	379.0	MSA					N			DUE TO BREAK		Abandoned Survey
8	27.00	449.0	OBZ				30	N	5		BROKEN PIPE PIECES		Obstacle Other



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.	
T.SCOLLON	U-0121-70400907		CITY OF COQUITLAM			
P/O No.		PSR	-	Da	ate / Time	
22-014	SNPI13232			Jun 10, 2022 12:00:00 AA	Λ	
	Street		City	Upstr	eam MH No.	
MARMONT		COQUITLAM		SNMH05332		
	Location Details			Downstream MH No.		
			SNMH05331			
USMI	l Rim to Invert	USMH Gr	ade to Invert	USMH	Rim to Grade	
2.12						
DSMI	l Rim to Invert	DSMH Gr	ade to Invert	DSMH	Rim to Grade	
2.09						
Sewer Use	Direction	Flow Control	Height	Width	Shape	
	Upstream	N	200		Circular	
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed	
CP					54.00	
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat	
		SNPI13232-30092.MP4	F			
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V	
?	06/10/2022		2	A		
	Project	Addit	ional Info	Reverse Setup		
22-014						

						Value			Circumferenti	ial Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	25.0	АМН					N			SNMH05331		Manhole
2	0.00	40.0	MWL				5	N					Water Level
3	1.70	195.0	SRI	S01				N	4	8			Surface Roughness Increased
4	6.90	236.0	MMC					N			PVC		Material Change
5	8.60	256.0	MMC					N			METAL		Material Change
6	21.00	367.0	MMC					N			PVC		Material Change
7	20.90	509.0	MMC					N			METAL		Material Change
8	33.60	602.0	DAE				5	N	7	8			Deposits Attached Encrustation
9	37.80	686.0	В					Y	7	9			Broken
10	37.80	709.0	JSM					N					Joint Separated Medium
11	42.10	748.0	TF		100			N	3				Tap Factory
12	52.60	806.0	SRI	F01				N	4	8			Surface Roughness Increased
13	54.00	831.0	АМН					N			SNMH05332		Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.		
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM				
P/O No.		PSR		Da	ate / Time		
	SNPI19930			Nov 2, 2023 1:54:00 PM			
	Street		City	Upsti	ream MH No.		
HORNBY ST		COQUITLAM		SNVN00159			
	Location Details			Downstream MH No.			
			SNMH09850				
USMH	Rim to Invert	USMH Gr	ade to Invert	USMH	Rim to Grade		
DSMH	Rim to Invert	DSMH Gr	ade to Invert	DSMH Rim to Grade			
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Upstream	N	200		C		
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
PVC			4.00		37.70		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		SNPI19930-35009.MP4	F				
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V		
?	10/19/2023		5	Α			
	Project	Addit	onal Info	Rev	verse Setup		
23-005							

						Value		Circumferential Location		al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	10.0	AMH					N			SNMH09850		Manhole
2	0.00	21.0	MWL				5	N					Water Level
3	2.30	63.0	DFE				15	N					Deformed Flexible Elliptical
4	2.50	73.0	JOM					N					Joint Offset Medium
5	5.60	100.0	TF		100			N	10				Tap Factory
6	13.70	158.0	TFA		100			N	2				Tap Factory Active
7	18.00	190.0	TF		100			N	10				Tap Factory
8	35.00	296.0	TF		100			N	10				Tap Factory
9	37.70	373.0	AZ					N			TRANSITION TO NEXT SEGMENT		Access Point Other



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.		
Linton S	U-0317-07006319		CofC				
P/O No.		PSR		D	ate / Time		
	STPI04384			Mar 9, 2023 8:27:00 AM			
	Street		City	Upstream MH No.			
MUNDY ST		COQUITLAM		STMH04344			
	Location Details			Downstream MH No.			
			STMH04343				
USMI	H Rim to Invert	USMH G	rade to Invert	USMI	l Rim to Grade		
1.91							
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSMI	l Rim to Grade		
1.64							
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Downstream	N	375		Circular		
Materia	l	Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
Polyvinyl Chloride			4.00		107.40		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI04384-31112.MP4	F				
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V		
?	03/09/2023		5	Α			
Project		Addit	ional Info	Reverse Setup			
23-005							

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	82.90	647.0	TF		150			N	10			31112-1.jpg	Tap Factory
2	92.00	694.0	TF		150			N	12			31112-2.jpg	Tap Factory
3	95.50	737.0	HSV					N	8	10		31112-3.jpg	Hole Soil Visible
4	95.50	766.0	Н					N	2	3		31112-4.jpg	Hole
5	107.40	829.0	АМН					N			STMH04343	31112-5.jpg	Manhole
6	0.00	35.0	АМН					N			STMH04344	31112-6.jpg	Manhole
7	0.00	46.0	MWL				5	N				31112-7.jpg	Water Level
8	4.20	72.0	TF		150			N	11			31112-8.jpg	Tap Factory
9	11.10	204.0	TF		150			N	11			31112-9.jpg	Tap Factory
10	16.20	239.0	TF		150			N	11			31112-10.jpg	Tap Factory
11	30.30	321.0	ТВ		150			N	10			31112-11.jpg	Tap Break-in
12	30.60	354.0	HSV					N	7			31112-12.jpg	Hole Soil Visible
13	31.70	376.0	TF		150			N	2			31112-13.jpg	Tap Factory
14	46.90	454.0	TF		150			N	11			31112-14.jpg	Tap Factory
15	52.40	486.0	TF		150			N	2			31112-15.jpg	Tap Factory
16	70.60	585.0	TF		150			N	11			31112-16.jpg	Tap Factory



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.		
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0		
P/O No.		PSR		D	ate / Time		
22-014	STPI04873			Mar 28, 2022 12:00:00 A	M		
	Street		City	Upst	ream MH No.		
SEAFORTH		COQUITLAM		STMH04537			
	Location Details			Downstream MH No.			
			STMH03646				
USMH	I Rim to Invert	USMH Gr	ade to Invert	USMF	I Rim to Grade		
DSMH	I Rim to Invert	DSMH Gr	ade to Invert	DSMH Rim to Grade			
Sewer Use	Direction	Flow Control	Height	Width	Shape		
Stormwater	Downstream	Not Controlled	250		Circular		
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
Polyvinyl Chloride					68.10		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI04873-29379.MP4	Routine Assessment				
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V		
Jetting	03/28/2022		Light Rain	Main Highway - Suburban/Rural 0.00			
	Project	Addit	ional Info	Re	verse Setup		
22-014				0			

					,	Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	0.0	АМН					N			STMH04537		Manhole
2	0.00	18.0	MWL				5	N					Water Level
3	9.40	129.0	MGP					N			BUCKLING @ 6		General Photo
4	9.40	145.0	KD					N	5	6	SEVERE		Buckling Dimpling
5	17.60	226.0	TF		150			N	12				Tap Factory
6	19.40	275.0	D				0	N			SLIGHT PIPE LIP DEFORMITY @ 12		Deformed
7	26.80	348.0	KD					N	8	9	POSSIBLE MANUFACTURE DEFECT?		Buckling Dimpling
8	26.80	373.0	MGP					N			DIMPLING @ 9		General Photo
9	30.40	400.0	TF		150			N	12				Tap Factory
10	43.60	463.0	TF		150			N	2				Tap Factory
11	44.20	488.0	MGP					N			INTRUDING ACTIVE SERVICE		General Photo
12	44.50	502.0	MGP					N			INTRUDING ACTIVE SERVICE		General Photo
13	44.70	556.0	IR					N	3		BENEATH BREAK IN CONNECTION		Infil Runner
14	44.70	623.0	ТВІ		150	30		N	3		ROUGH, INFILTRATION, ACTIVE		Tap Break-in Intruding
15	45.70	654.0	KD					N	6		MINOR		Buckling Dimpling



	Surveyed	l By		Certificate	No.				Owner		Customer	Drainage Area		Sheet No.	
N FOLS	MO			U-0319-703037	79						CITY OF COQUITLAM		0		
	P/O No).							PSR			Date	/ Time		
22-014				STPI04873								Mar 28, 2022 12:00:00 AM			
			Stree	et						City			m MH N).	
SEAFO	RTH						(coqui	TLAM			STMH04537			
				Location Det	ails							Downstream MH No.			
											ГМН03646				
		USA	۸H Rim	to Invert			Г		l	m to Gra	de				
		DSA	AH Rim	to Invert			Г			OSMH Grade	to Invert	m to Gra	de		
	Sewer U	lse		Direction	n				Flow Control		Height	Width		Shape	
Storm	water			Downstream				Not Co	ntrolled		250		Circular		
		Materi	al				Ī	Lining M	ethod		Pipe Joint Length	Total Length	Length Surveyed		
Polyvir	ıyl Chlori	ide									-		68.10		
	Year La	id		Year Renev	wed				Media Label		F	Purpose		Sewer Cat	
							9	STPI04	873-29379.N	1P4	Routine Assessment				
	Pre-Clear	ning		Date Clear	ned				W/O#		Weather	Location		Pressure V	
Jetting				03/28/2022							Light Rain	Main Highway - Suburban/Rural	0.00		
			Proje	ct						Additiona	l Info	Rever	se Setup		
22-014												0			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То		Remarks	Photo	Description	
16	45.70	679.0	MGP					N			MINOR DIMPLING @ 6			General Photo	
17	67.10	785.0	KD					N	6					Buckling Dimpling	
18	68.10	844.0	MGO					N			INFILTRATION CONFIRMED BY EYE, WATER NOT FROM SERVICE General			General Observation	
19	68.10	868.0	IR					Y	2		INSIDE STMH03646 Infil Runr			Infil Runner	
20	68.10	898.0	IR					N	12	12 INSIDE STMH03646 Infil			Infil Runner		
21	68.10	912.0	АМН					N		STMH03646				Manhole	



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
T SCOLLON	U-0121-70400907		CITY OF COQUITLAM		
P/O No.		PSR		Di	ate / Time
	STPI06253			Nov 22, 2023 9:57:00 AM	1
	Street		City	Upst	ream MH No.
BAKER DR		COQUITLAM	·	STMH06239	
	Location Details			Downstream MH No.	
			STMH06238		
USMI	H Rim to Invert	USMH G	rade to Invert	USMH	Rim to Grade
1.98					
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSMH	Rim to Grade
1.37					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	250		С
Materia		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
RCP			2.00		52.90
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		STPI06253-35148.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
	11/07/2023		1	Α	
	Project	Addit	tional Info	Rev	verse Setup
23-005					

					Value			Circumferenti	al Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	14.0	АМН					N			STMH06239		Manhole
2	0.00	24.0	MWL				5	N					Water Level
3	12.30	132.0	RTJ				15	Υ	6	8			Roots Tap Joint
4	29.50	233.0	RFJ					Υ	4	5			Roots Fine Joint
5	30.90	260.0	В					Υ	1	4			Broken
6	35.60	300.0	ТВ		150			N	9				Tap Break-in
7	46.20	403.0	RFJ					Υ	4	6			Roots Fine Joint
8	50.80	464.0	В					Υ	3	6			Broken
9	50.80	495.0	RTJ				15	Υ	4	7			Roots Tap Joint
10	52.50	542.0	Н					Υ	7	9			Hole
11	52.50	578.0	RFJ					Υ	4	6			Roots Fine Joint
12	52.90	596.0	АМН					N			STMH06238		Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.		
Linton S	U-0317-07006319		CITY OF COQUITLAM				
P/O No.		PSR		D	ate / Time		
30-6011	STPI06271			Jun 15, 2022 12:00:00 A/	M		
	Street		City	Upst	ream MH No.		
FRESNO PL		COQUITLAM		STMH06254			
	Location Details			Downstream MH No.			
			STOU06124				
USMH	Rim to Invert	USMH Gr	ade to Invert	USMF	I Rim to Grade		
DSMH	Rim to Invert	DSMH Gr	ade to Invert	DSMH Rim to Grade			
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Downstream	N	200		Circular		
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
CP			2.50		47.80		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI06271-30208.MPG	F				
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V		
?	06/15/2022		5	Α			
	Project	Addit	ional Info	Rev	verse Setup		
22-014E							

					Value			Circumferential Location					
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	41.0	АМН					N			STMH06254		Manhole
2	0.00	56.0	MWL				0	N					Water Level
3	12.20	124.0	В					Υ	10	2			Broken
4	47.80	777.0	MMC					N			PVC		Material Change
5	47.80	799.0	MSA					N			DUE TO END OF PUSH CAM		Abandoned Survey



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.	
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM	_	0	
P/O No.		PSR	-		Date / Time	
22-014	STPI06273			May 11, 2022 12:00:00	ΑM	
	Street		City	Ups	tream MH No.	
POIRIER		COQUITLAM		STMH06258		
	Location Details			Downstream MH No.		
			STMH06257			
USMI	H Rim to Invert	USMH G	rade to Invert	USM	H Rim to Grade	
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSM	H Rim to Grade	
1.35						
Sewer Use	Direction	Flow Control	Height	Width	Shape	
Stormwater	Upstream	Not Controlled	200		Circular	
Materia	l	Lining Method	Pipe Joint Length	Total Length	Length Surveyed	
Concrete Pipe (non-rein	forced)				79.70	
Year Laid	Year Renewed	Media Label	Pu	irpose	Sewer Cat	
		STPI06273-29853.MPG	Routine Assessment			
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V	
Jetting	05/04/2022		Light Rain	Main Highway - Suburban/Rural	0.00	
	Project	Addit	ional Info	R	everse Setup	
22-014		TOP MANHOLE DELETED, S	STRAIGHT CONNECTION TO	o		

					,	Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	11.0	AMH					N			STMH06257		Manhole
2	0.00	21.0	MWL				0	N					Water Level
3	1.30	44.0	SRI	501				Υ	6				Surface Roughness Increased
4	12.50	119.0	MMC					N			PVC		Material Change
5	12.80	129.0	TF		100			N	10				Tap Factory
6	13.30	142.0	TF		150			N	3				Tap Factory
7	13.80	155.0	MMC					N			СР		Material Change
8	16.10	167.0	MWLS				5	N					Water Level Sag
9	27.80	249.0	TBC		100			N	12				Tap Break-in Capped
10	32.50	272.0	MMC					N			PVC		Material Change
11	34.30	283.0	MMC					N			СР		Material Change
12	36.40	295.0	MWLS				5	N					Water Level Sag
13	37.50	10.0	ТВ		150			N	9				Tap Break-in
14	50.10	421.0	BSV					Υ	12	12			Broken Soil Visible



Surveyed By	Certific	ate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-7030	3779		CITY OF COQUITLAM		0
P/O No.			PSR		D	ate / Time
22-014	STPI06273				May 11, 2022 12:00:00 A	AM
	Street			City	Upst	ream MH No.
POIRIER			COQUITLAM		STMH06258	
	Location	Details			Downstream MH No.	
				STMH06257		
USM	H Rim to Invert		USMH Gr	ade to Invert	USMI	H Rim to Grade
DSM	H Rim to Invert		DSMH Gr	ade to Invert	DSMI	H Rim to Grade
1.35						
Sewer Use	Dire	ction	Flow Control	Height	Width	Shape
Stormwater	Upstream		Not Controlled	200		Circular
Materia			Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Concrete Pipe (non-rein	forced)					79.70
Year Laid	Year Re	enewed	Media Label		ırpose	Sewer Cat
			STPI06273-29853.MPG	Routine Assessment		
Pre-Cleaning	Date C	leaned	W/O#	Weather	Location	Pressure V
Jetting	05/04/2022			Light Rain	Main Highway - Suburban/Rural	0.00
	Project		Addit	ional Info	Re	verse Setup
22-014			TOP MANHOLE DELETED, S STPI08232	TRAIGHT CONNECTION TO	0	

Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
15	50.90	433.0	MMC					N			PVC		Material Change
16	51.30	442.0	MMC					N			СР		Material Change
17	58.80	485.0	TF		100			N	9				Tap Factory
18	76.50	566.0	MWLS				5	N					Water Level Sag
19	76.70	584.0	FC					Υ	11	3			Fracture Circumferential
20	77.60	602.0	MMC					N			PVC		Material Change
21	78.80	616.0	TF		100			N	9				Tap Factory
22	79.70	798.0	MSA					N			WHEELS STUCK IN CONNECTION		Abandoned Survey
23	79.60	832.0	SRI	F01				Υ	6				Surface Roughness Increased



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.			
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0			
P/O No.		PSR		D	ate / Time			
22-014	STP106274			May 11, 2022 12:00:00 A	AM			
	Street		City	Upstream MH No.				
POIRIER		COQUITLAM	•	STMH06257				
	Location Details			Downstream MH No.				
			STMH06256					
USM	H Rim to Invert	USMH G	rade to Invert	USMI	l Rim to Grade			
1.35								
DSM	H Rim to Invert	DSMH G	rade to Invert	DSMH Rim to Grade				
0.73								
Sewer Use	Direction	Flow Control	Height	Width	Shape			
Stormwater	Downstream	Not Controlled	200		Circular			
Materia	I	Lining Method	Pipe Joint Length	Total Length	Length Surveyed			
Concrete Pipe (non-rein	forced)				59.20			
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat			
		STPI06274-29854.MPG	Routine Assessment					
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V			
letting	05/04/2022		Light Rain	Main Highway - Suburban/Rural 0.00				
	Project	Addit	tional Info	Reverse Setup				
22-014				0				

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	0.0	АМН					N			STMH06257		Manhole
2	0.00	21.0	MWL				5	N					Water Level
3	1.80	34.0	MMC					N			PVC		Material Change
4	2.40	45.0	MMC					N			СР		Material Change
5	3.30	75.0	BSV					Υ	12	6			Broken Soil Visible
6	4.70	111.0	FC					N	12	12			Fracture Circumferential
7	13.80	165.0	TF		200			N	3				Tap Factory
8	20.50	200.0	FC					N	12	12			Fracture Circumferential
9	20.50	215.0	IS					N	3				Infil Stain
10	26.30	247.0	FC					N	12	12			Fracture Circumferential
11	27.00	264.0	MMC					N			PVC		Material Change
12	28.40	274.0	MMC					N			СР		Material Change
13	37.70	312.0	MMC					N			PVC		Material Change
14	38.40	323.0	TF		150			N	3				Tap Factory
15	38.80	336.0	MMC					N			СР		Material Change



S	urveyed By		Ce	rtificate No.		Owne	er		Custom	ier	Drainage A	Area	Sheet No.		
N FOLSO	M		U-0319-7	70303779					CITY OF COQUI	TLAM			0		
	P/O No.					PSR						D	ate / Time		
22-014			STPI0627	4							May 11, 2022 1	2:00:00 A	M		
		Stree	t					c	ity		Upstream MH No.				
POIRIER					COQUIT	LAM					STMH06257				
			Loca	tion Details	Downstream MH No.										
									STMH06256						
		USMH Rim t	o Invert				l	USMH Gra	de to Invert			USMH	l Rim to Grade		
1.35															
		DSMH Rim t	o Invert					DSMH Gra	de to Invert			DSMH	Rim to Grade		
0.73															
	Sewer Use Direction					Flow Co			Heigh	t	Width	l	Shape		
Stormwa			Downstr	eam	Not Cor	ntrolled			200				Circular		
-		laterial			Lining Mo	ethod			Pipe Joint L	ength.	Total Len	gth	Length Surveyed		
Concrete		-reinforce	•										59.20		
	Year Laid		Ye	ar Renewed		Media L					oose	Sewer Cat			
					STPI062			ΛPG	Routine Assess						
P	re-Cleaning		D	ate Cleaned		W/O	#		Weath	er	Locatio		Pressure V		
Jetting			05/04/20	022					Light Rain		Main Highway - Suburban/Rural				
		Proje	ct					Additio	onal Info			Rev	verse Setup		
22-014											0				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description		
16	42.40	357.0	IS					N	10		Infil Stain		Infil Stain		
17	46.60	391.0	IS					N	2	3	MULTIPLE		Infil Stain		
18	59.20	455.0	АМН					N			STMH06256		Manhole		



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.			
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0			
P/O No.		PSR		D	ate / Time			
22-014	STP106276			May 11, 2022 12:00:00 A	M			
	Street		City	Upstream MH No.				
SELKIRK		COQUITLAM	·	STMH06259				
	Location Details			Downstream MH No.				
			STMH06257					
USMI	l Rim to Invert	USMH G	rade to Invert	USMF	I Rim to Grade			
1.32								
DSMI	l Rim to Invert	DSMH G	rade to Invert	DSMH Rim to Grade				
1.35								
Sewer Use	Direction	Flow Control	Height	Width	Shape			
Stormwater	Downstream	Not Controlled	200		Circular			
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed			
Concrete Pipe (non-reint	forced)				113.60			
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat			
		STPI06276-29856.MPG	Routine Assessment					
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V			
Jetting	05/04/2022		Light Rain	Main Highway - Suburban/Rural 0.00				
	Project	Addit	tional Info	Reverse Setup				
22-014				0				

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	10.0	АМН					N			STMH06259		Manhole
2	0.00	30.0	MWL				5	N					Water Level
3	1.30	44.0	SRI	501				Υ	5	7			Surface Roughness Increased
4	8.00	92.0	MMC					N			PVC		Material Change
5	9.50	105.0	MMC					N			СР		Material Change
6	10.60	117.0	JOL					N					Joint Offset Large
7	10.90	132.0	MWLS				15	N					Water Level Sag
8	10.90	141.0	MMC					N			PVC		Material Change
9	12.10	152.0	MMC					N			СР		Material Change
10	22.80	205.0	FC					N	12	12			Fracture Circumferential
11	26.60	247.0	CM					N	2	4			Crack Multiple
12	29.30	298.0	HSV					N	12				Hole Soil Visible
13	29.30	308.0	HSV					N	1				Hole Soil Visible
14	31.20	331.0	ТВ		150			N	3				Tap Break-in
15	38.00	374.0	RFJ					Υ	3	4			Roots Fine Joint



Surveyed By	Certificate N	o. Owner	Customer	Drainage Area	Sheet No.			
N FOLSOM	U-0319-7030377	9	CITY OF COQUITLAM		0			
P/O No.		PSR		D	ate / Time			
22-014	STP106276			May 11, 2022 12:00:00 A	M			
	Street		City	Upst	ream MH No.			
SELKIRK		COQUITLAM		STMH06259				
	Location Detai	s		Downstream MH No.				
			STMH06257					
USMF	l Rim to Invert	US	MH Grade to Invert	USMF	l Rim to Grade			
1.32								
DSMI	l Rim to Invert	DS	MH Grade to Invert	DSMH Rim to Grade				
1.35								
Sewer Use	Direction	Flow Control	Height	Width	Shape			
Stormwater	Downstream	Not Controlled	200		Circular			
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed			
Concrete Pipe (non-reinf	forced)				113.60			
Year Laid	Year Renewe	d Media Label		Purpose	Sewer Cat			
		STP106276-29856.MF	PG Routine Assessment					
Pre-Cleaning	Date Cleane	d W/O#	Weather	Location	Pressure V			
Jetting	05/04/2022		Light Rain	Main Highway - Suburban/Rural				
	Project		Additional Info	Reverse Setup				
22-014				0				

Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
16	38.80	388.0	JOM					N					Joint Offset Medium
17	39.70	401.0	ТВ		150			N	10				Tap Break-in
18	46.00	434.0	MWLS				5	N					Water Level Sag
19	49.60	458.0	IS					N	10				Infil Stain
20	58.90	518.0	IS					Υ	2	10			Infil Stain
21	62.00	10.0	CL					N	9				Crack Longitudinal
22	62.00	566.0	IS					N	9		FROM CRACK		Infil Stain
23	66.30	590.0	JOL					N					Joint Offset Large
24	66.70	599.0	MMC					N			PVC		Material Change
25	68.30	612.0	MMC					N			СР		Material Change
26	71.80	649.0	TBA		100			N	10		OFFSET		Tap Break-in Active
27	74.70	666.0	MMC					N			PVC		Material Change
28	76.40	676.0	MMC					N			СР		Material Change
29	80.90	697.0	MWLS				5	N					Water Level Sag
30	87.40	754.0	MMC					N			PVC		Material Change
31	88.80	770.0	MMC					N			СР		Material Change



?	Surveyed By		C	ertificate No.		Ov	vner		Cus	stomer	Drain	iage Area	Sheet No.			
N FOLSO	M		U-0319-	70303779					CITY OF CO	QUITLAM			0			
	P/O No.					P	SR						Date / Time			
22-014			STPI062	76							May 11, 20	22 12:00:0	OO AM			
		Stre	et						City				Upstream MH No.			
SELKIRK					COÓN	IITLAM					STMH0625	STMH06259				
			Loc	ation Details							Downstre	am MH No.				
									STMH06257							
		USMH Rim	to Invert					USMH Gr	ade to Invert			L	SMH Rim to Grade			
1.32																
	DSMH Rim to Invert							DSMH Gr	ade to Invert			D	SMH Rim to Grade			
1.35																
	Sewer Use		Downstr	Direction	Not C	Flow ontroll	Control		<u>н</u> 200	eight	V	Vidth	Shape Circular			
Stormwa		Λaterial	DOWIISTI	eam			eu			int I amouth	Total Length					
Concrete		nateriai n-reinforce	۲)		Lining	Method			Pipe Jo	int Length	IOta	ıı Lengtn	Length Surveyed 113.60			
CONCICIO	Year Laid	1-101110100		ear Renewed		Modi	a Label				Purpose		Sewer Cat			
	i cai Laiu			ear Kerieweu	STPIO	5276-2			Routine Ass	essment	ruipose	Jewei Cat				
F	re-Cleaning			Pate Cleaned	31110		/O#			eather	Lo	cation	Pressure V			
											Main Highv					
letting			05/04/2	022					Light Rain		Suburban/F		0.00			
		Proje	ct					Addit	ional Info				Reverse Setup			
22-014											0		·			
		6				- 1	21	1		-		51.1	2			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description			
32	103.70	849.0	MMC					N			PVC		Material Change			
33	105.20	861.0	TF		150			N	9				Tap Factory			
34	105.60	875.0	MMC					N			СР		Material Change			
35	112.70	918.0	В					Υ	2				Broken			
36	112.70	949.0	FM					Υ	12	12			Fracture Multiple			
37	113.50	965.0	SRI	F01				Υ	5	7			Surface Roughness Increased			
38	113.60	978.0	AMH					N			STMH06257		Manhole			



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.				
Linton S	U-0317-07006319		CofC						
P/O No.		PSR		Di	ate / Time				
	STPI08208			Feb 21, 2023 11:05:00 A/	M				
	Street		City	Upstream MH No.					
WILMOT ST		COQUITLAM		STMH08206					
	Location Details			Downstream MH No.					
			STMH08205						
USMF	l Rim to Invert	USMH G	rade to Invert	USMH	Rim to Grade				
0.80									
DSMF	l Rim to Invert	DSMH G	rade to Invert	DSMH	Rim to Grade				
1.00									
Sewer Use	Direction	Flow Control	Height	Width	Shape				
	Downstream	N	250		Circular				
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed				
IP .			2.50		131.70				
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat				
		STPI08208-30950.MP4	F						
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V				
?	02/21/2023		5	Α					
	Project	Addi	tional Info	Reverse Setup					
23-005									

					Value			Circumferenti	ial Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	55.0	AMH					N			STMH08206	30950-1.jpg	Manhole
2	0.00	67.0	MWL				0	N				30950-2.jpg	Water Level
3	13.40	139.0	ТВ		150			N	2			30950-3.jpg	Tap Break-in
4	18.20	177.0	JOL					N				30950-4.jpg	Joint Offset Large
5	18.50	196.0	MMC					N			PVC	30950-5.jpg	Material Change
6	19.20	216.0	TF		150			N	10			30950-6.jpg	Tap Factory
7	19.60	234.0	MMC					N			СР	30950-7.jpg	Material Change
8	22.80	266.0	ТВ		150			N	10			30950-8.jpg	Tap Break-in
9	24.60	288.0	ТВ		150			N	2			30950-9.jpg	Tap Break-in
10	41.50	380.0	ТВ		150			N	10			30950-10.jpg	Tap Break-in
11	54.70	462.0	TF		150			N	2			30950-11.jpg	Tap Factory
12	62.10	512.0	TBA		150			N	10			30950-12.jpg	Tap Break-in Active
13	69.70	563.0	TBA		150			N	10			30950-13.jpg	Tap Break-in Active
14	73.40	594.0	TBA		150			N	2			30950-14.jpg	Tap Break-in Active
15	82.80	659.0	ТВ		150			N	10			30950-15.jpg	Tap Break-in
16	93.90	734.0	ТВ		150			N	2			30950-16.jpg	Tap Break-in



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
Linton S	U-0317-07006319		CofC		
P/O No.		PSR		D	ate / Time
	STPI08208			Feb 21, 2023 11:05:00 A	M
	Street		City	Upst	ream MH No.
WILMOT ST		COQUITLAM		STMH08206	
	Location Details			Downstream MH No.	
			STMH08205		
USMH	I Rim to Invert	USMH Gi	ade to Invert	USMI	l Rim to Grade
0.80					
DSMH	l Rim to Invert	DSMH Gr	ade to Invert	DSMF	l Rim to Grade
1.00					
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Downstream	N	250		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
CP			2.50		131.70
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		STPI08208-30950.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	02/21/2023		5	Α	
	Project	Addit	ional Info	Re	verse Setup
23-005					

Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
17	103.40	799.0	TBA		150			N	10			30950-17.jpg	Tap Break-in Active
18	114.70	875.0	ТВ		150			N	2			30950-18.jpg	Tap Break-in
19	116.60	897.0	TFB		200			N	10			30950-19.jpg	Tap Factory Abandoned
20	117.00	915.0	ТВ		200			N	2			30950-20.jpg	Tap Break-in
21	118.70	931.0	MWLS				5	N				30950-21.jpg	Water Level Sag
22	121.40	956.0	JOL					N				30950-22.jpg	Joint Offset Large
23	121.60	973.0	MMC					N			PVC	30950-23.jpg	Material Change
24	123.70	1,002.0	MMC					N			СР	30950-24.jpg	Material Change
25	125.30	1,038.0	ТВ		150			N	10			30950-25.jpg	Tap Break-in
26	126.00	1,069.0	TFC		150			N	10			30950-26.jpg	Tap Factory Capped
27	131.70	1,112.0	AMH					N			STMH08205	30950-27.jpg	Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0
P/O No.		PSR		D	ate / Time
22-014	STP108259			May 9, 2022 12:00:00 AM	Λ
	Street		City	Upst	ream MH No.
HARBOUR		COQUITLAM		STMH08248	
	Location Details			Downstream MH No.	
			STMH08252		
USMH	Rim to Invert	USMH Gr	ade to Invert	USMF	Rim to Grade
1.17					
DSMH	Rim to Invert	DSMH Gr	ade to Invert	DSMF	Rim to Grade
1.10					
Sewer Use	Direction	Flow Control	Height	Width	Shape
Stormwater	Downstream	Not Controlled	200		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Reinforced Concrete Pipe					26.50
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		STPI08259-29877.MPG	Routine Assessment		
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V
Jetting	05/04/2022		Light Rain	Main Highway - Suburban/Rural	0.00
	Project	Addit	ional Info	Re	verse Setup
22-014				0	

					Value			Circumferential Location					
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	10.0	AMH					N			STMH08248		Manhole
2	0.00	19.0	MWL				5	N					Water Level
3	1.30	45.0	SRI	S01				Y	5	7			Surface Roughness Increased
4	4.90	80.0	TF		200			N	9				Tap Factory
5	6.90	114.0	MWLS				10	N					Water Level Sag
6	7.50	128.0	TF		200			N	3		DEBRIS		Tap Factory
7	10.70	166.0	IS					N	2				Infil Stain
8	12.20	201.0	FM					Y	9	3			Fracture Multiple
9	25.20	278.0	SRI	F01				Y	5	7			Surface Roughness Increased
10	26.50	289.0	AMH					N			STMH08252		Manhole



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
ROSS S	U-0520-70309443		CITY OF COQUITLAM		
P/O No.		PSR		D	ate / Time
	STPI08275			Mar 22, 2023 11:56:00 A	M
	Street		City	Upst	ream MH No.
POIRIER ST		COQUITLAM		STMH08234	
	Location Details			Downstream MH No.	
			STMH08268		
USMI	l Rim to Invert	USMH G	rade to Invert	USMF	l Rim to Grade
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSMF	I Rim to Grade
Sewer Use	Direction	Flow Control	Height	Width	Shape
	Upstream	N	250		Circular
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Vitrified Clay Pipe					82.50
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		STPI08275-31333.MP4	F		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
?	03/22/2023		5	С	
	Project	Addit	tional Info	Re	verse Setup
23-005					

					Value			Circumferenti	al Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	14.0	АМН					N			STMH08268	31333-1.jpg	Manhole
2	0.00	25.0	MWL				10	N				31333-2.jpg	Water Level
3	5.20	195.0	TF		150			N	9			31333-3.jpg	Tap Factory
4	8.80	240.0	JOM					N				31333-4.jpg	Joint Offset Medium
5	9.30	294.0	MMC					N			PVC	31333-5.jpg	Material Change
6	9.90	319.0	TF		150			N	9			31333-6.jpg	Tap Factory
7	11.40	356.0	MMC					N			VC	31333-7.jpg	Material Change
8	14.60	434.0	SRI	S01				N	4	7		31333-8.jpg	Surface Roughness Increased
9	19.40	476.0	MWLS				5	N				31333-9.jpg	Water Level Sag
10	20.20	529.0	JOL					N				31333-10.jpg	Joint Offset Large
11	20.20	553.0	Н					Y	11	1		31333-11.jpg	Hole
12	35.10	697.0	ТВ		150			N	9			31333-12.jpg	Tap Break-in
13	37.00	738.0	ТВ		200			N	9			31333-13.jpg	Tap Break-in
14	38.60	771.0	ТВ		200			N	9			31333-14.jpg	Tap Break-in
15	45.20	823.0	MWLS				5	N				31333-15.jpg	Water Level Sag
16	48.20	865.0	ТВ		150			N	9			31333-16.jpg	Tap Break-in



22

82.50

1,228.0

AMH

City of Coquitlam CCTV Inspection Report

Standard: PACP
Inspection ID: 31333

	Surveyed B	y		Certificate No.			Owne	r		Customer		Drainage Area	Sheet No.			
ROSS S			U-0520)-70309443					CITY OF	COQUITLAM						
	P/O No.						PSR						Date / Time			
			STPI08	275							Mar 2	2, 2023 11:56:00) AM			
		Str	eet						City			U _l	ostream MH No.			
POIRIER	ST				CO	QUITLA	١M				STMH	STMH08234				
			Lo	ocation Details							Do	wnstream MH No.				
									STMH082	.68						
		USMH Rir	n to Invert					USN	NH Grade to Invert			US	MH Rim to Grade			
	DSMH Rim to Invert							DSN	NH Grade to Invert			DS	MH Rim to Grade			
	Sewer Use			Direction		Flo	w Con	trol		Height		Width	Shape			
			Upstre	am	Ν				250				Circular			
		Material	•		Lini	ng Meth	od		Pi	pe Joint Length		Total Length	Length Surveyed			
Vitrified	Material trified Clay Pipe					_				_			82.50			
	Year Laid			Year Renewed		М	edia La	bel			Purpose		Sewer Cat			
					STF	10827	5-313	33.MP4	F F							
	Pre-Cleanin	g		Date Cleaned			W/0	ŧ		Weather		Location	Pressure V			
?			03/22/	2023					5		C					
		Pro	ject						Additional Info				Reverse Setup			
23-005																
	1	ì									1					
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description			
17	65.40	973.0	MWLS				5	N				31333-17.jpg	Water Level Sag			
18	65.90	992.0	MMC					N			PVC	31333-18.jpg	Material Change			
19	66.30	1,012.0	TF		150			N	3			31333-19.jpg	Tap Factory			
20	81.60	1,153.0	ТВ		150			N	9			31333-20.jpg	Tap Break-in			
21	82.50	1,214.0	SRI	F01				N	4	7		31333-21.jpg	Surface Roughness Increased			

STMH08234

31333-22.jpg

Manhole

Ν



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-70303779		CITY OF COQUITLAM		0
P/O No.		PSR		D	ate / Time
22-014	STPI09245			Apr 26, 2022 12:00:00 A	M
	Street		City	Upst	ream MH No.
SUMMIT		COQUITLAM		STMH09219	
	Location Details			Downstream MH No.	
			STMH09218		
USMI	H Rim to Invert	USMH G	rade to Invert	USMI	I Rim to Grade
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSMI	I Rim to Grade
Sewer Use	Direction	Flow Control	Height	Width	Shape
Stormwater	Upstream	Not Controlled	200		Circular
Materia		Lining Method	Pipe Joint Length	Total Length	Length Surveyed
Polyvinyl Chloride		<u> </u>			79.20
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat
		STPI09245-29616.MP4	Routine Assessment		
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V
letting	04/22/2022		Dry	Main Highway - Suburban/Rural	0.00
	Project	Addit	tional Info	Re	verse Setup
22-014				0	

						Value			Circumferenti	al Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	12.0	АМН					N			STMH09218		Manhole
2	0.00	26.0	MWL				5	N					Water Level
3	2.60	50.0	TF		100			N	2				Tap Factory
4	23.90	149.0	TFA		150			N	3		REDUCER		Tap Factory Active
5	43.20	236.0	TF		100			N	1				Tap Factory
6	46.00	261.0	TF		100			N	2				Tap Factory
7	68.60	10.0	TF		100			N	2				Tap Factory
8	76.60	410.0	TF		150			N	3				Tap Factory
9	78.30	437.0	JOL					N					Joint Offset Large
10	78.30	447.0	D				10	N					Deformed
11	78.90	478.0	MWLS				10	N			DUE TO DEFORMED/OFFSET PIPE		Water Level Sag
12	79.20	515.0	JOL					N			IN DISTANCE		Joint Offset Large
13	79.20	539.0	MSA					N			DUE TO OFFSET		Abandoned Survey



Surveyed By	Certificate I	No.	Owner	Customer	Drainage Area	Sheet No.
N FOLSOM	U-0319-703037	79		CITY OF COQUITLAM		0
P/O No.			PSR		Da	ite / Time
22-014	STP109250				May 9, 2022 12:00:00 AM	1
	Street			City	Upstr	eam MH No.
WILLOW		COQ	UITLAM		STMH09222	
	Location Deta	nils			Downstream MH No.	
				STMH09221		
USMI	H Rim to Invert		USMH G	rade to Invert	USMH	Rim to Grade
DSMI	H Rim to Invert		DSMH G	rade to Invert	DSMH	Rim to Grade
Sewer Use	Direction	1	Flow Control	Height	Width	Shape
Stormwater	Upstream	Not	Controlled	200		Circular
Materia		Lining	Method	Pipe Joint Length	Total Length	Length Surveyed
Reinforced Concrete Pip	e			-		1.50
Year Laid	Year Renew	red .	Media Label		Purpose	Sewer Cat
		STPI	09250-29875.MPG	Routine Assessment		
Pre-Cleaning	Date Clean	ed	W/O#	Weather	Location	Pressure V
Jetting	05/04/2022			Light Rain	Main Highway - Suburban/Rural	0.00
	Project			tional Info	Rev	erse Setup
22-014					0	

						Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	10.0	AMH					N			STMH09221		Manhole
2	0.00	20.0	MWL				10	N					Water Level
3	1.40	34.0	JOL					N					Joint Offset Large
4	1.40	44.0	MGP					N					General Photo
5	1.50	53.0	MSA					N			DUE TO OFFSET		Abandoned Survey



Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.		
Linton S	U-0317-07006319		CITY OF COQUITLAM				
P/O No.		PSR		D	ate / Time		
23-005	STPI13006			Oct 20, 2023 10:34:00 AM			
	Street		City	Upstream MH No.			
BUTE CRESCENT		COQUITLAM	·	STMH13007			
	Location Details			Downstream MH No.			
			STMH13008				
USMI	H Rim to Invert	USMH G	rade to Invert	USMF	I Rim to Grade		
2.35							
DSMI	H Rim to Invert	DSMH G	rade to Invert	DSMF	I Rim to Grade		
2.19							
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Downstream	N	250		С		
Materia		Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
CP			2.50		64.50		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI13006-34901.MP4					
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V		
?	10/20/2023		5	A			
	Project	Addit	tional Info	Re	verse Setup		
23-005					·		

					Value			Circumferential Location					
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	30.0	АМН					N			STMH13007		Manhole
2	0.00	46.0	MWL				0	N					Water Level
3	0.00	64.0	MWLS				5	N					Water Level Sag
4	4.40	133.0	TF		100			N	10				Tap Factory
5	5.60	152.0	TF		100			N	2				Tap Factory
6	10.50	191.0	TF		100			N	11				Tap Factory
7	11.80	213.0	TF		150			N	2				Tap Factory
8	16.80	252.0	TF		100			N	11				Tap Factory
9	19.30	286.0	TF		100			N	1				Tap Factory
10	29.30	351.0	TF		100			N	11				Tap Factory
11	31.80	376.0	TF		100			N	1				Tap Factory
12	41.80	469.0	TF		100			N	11				Tap Factory
13	44.30	510.0	TFA		100			N	1				Tap Factory Active
14	49.10	597.0	FM					Y	12	12			Fracture Multiple
15	55.60	667.0	TF		100			N	11				Tap Factory
16	59.40	706.0	TF		100			N	1				Tap Factory

Coouitlam

City of Coquitlam CCTV Inspection Report

9	Surveyed By		Certif	icate No.		Owner			Customer		Drainage Area		Sheet No.		
Linton S		l	J-0317-070	006319				C	ITY OF COQUITLAM	1					
	P/O No.					PSR						Date / Tin	ne		
23-005		9	TPI13006							Oc	t 20, 2023 10:34:00	MA C			
		Street						City			Upstream MH No.				
BUTE CR	ESCENT				COQUITL	AM				ST	STMH13007				
			Locatio	n Details							Downstream MH No.				
								ST/	MH13008						
		USMH Rim to	Invert				USMI	I Grade to	o Invert		U	SMH Rim to	Grade		
2.35															
	DSMH Rim to Invert						DSMI	I Grade to	o Invert		DSMH Rim to Grade				
2.19	19														
	Sewer Use		Dir	ection	Flow Control				Height		Width		Shape		
			Downstrear	m	N				50			C			
	M	aterial			Lining Method				Pipe Joint Length		Total Length		Length Surveyed		
CP								2	50			6	64.50		
	Year Laid		Year I	Renewed	٨	Nedia Labe	el			Purpose			Sewer Cat		
					STPI1300	6-34902	L.MP4								
P	Pre-Cleaning		Date	Cleaned		W/O#			Weather		Location		Pressure V		
?			10/20/2023	3				5		А					
	Project					A	dditional	Info			Reverse Se	tup			
23-005	23-005														
Line#	Distance	Video Ref	Code	Continuous Defe	ct 1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description		
	_			Continuous Delec			,,,		7.67.1.0111	.0		1,1,0,0	·		
17	64.50	755.0	AMH					N			STMH13008		Manhole		

Coouitlam

City of Coquitlam CCTV Inspection Report

Surveyed By	Certificate No.	Owner	Customer	Drainage Area	Sheet No.			
Linton S	U-0317-07006319		CITY OF COQUITLAM					
P/O No.		PSR		D	ate / Time			
23-005	STPI15262			Nov 2, 2023 8:41:00 AM				
	Street		City	Upstream MH No.				
GALIANO ST		COQUITLAM		STMH15263				
	Location Details			Downstream MH No.				
			STMH15264					
USMI	H Rim to Invert	USMH G	rade to Invert	USMI	I Rim to Grade			
2.68								
DSMI	H Rim to Invert	DSMH Gi	rade to Invert	DSMI	I Rim to Grade			
1.85								
Sewer Use	Direction	Flow Control	Height	Width	Shape			
	Downstream	N	200		C			
Materia		Lining Method	Pipe Joint Length	Total Length	Length Surveyed			
CP			2.50		100.00			
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat			
		STPI15262-34994.MP4						
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V			
?	11/02/2023		5	Α				
	Project	Addit	ional Info	Reverse Setup				
23-005	•				-			

						Value			Circumferent	ial Location			
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	29.0	АМН					N			STMH15263		Manhole
2	0.00	39.0	MWL				5	N					Water Level
3	3.60	60.0	TF		150			N	10				Tap Factory
4	6.70	94.0	ТВ		150			N	10				Tap Break-in
5	19.40	162.0	ТВ		150			N	10				Tap Break-in
6	22.50	193.0	TBA		200			N	9				Tap Break-in Active
7	24.10	220.0	TBA		200			N	3				Tap Break-in Active
8	25.60	242.0	ТВ		150			N	2				Tap Break-in
9	30.40	276.0	ТВ		150			N	10				Tap Break-in
10	36.70	344.0	ТВ		150			N	2				Tap Break-in
11	38.70	357.0	MWLS				5	N					Water Level Sag
12	46.20	408.0	TBA		150			N	10				Tap Break-in Active
13	50.00	448.0	MWLS				40	N					Water Level Sag
14	50.20	490.0	В					Υ	10	3			Broken
15	60.40	557.0	ТВ		150			N	10				Tap Break-in
16	65.10	605.0	TBA		150			N	2		GRAVEL IN SERVICE CONN		Tap Break-in Active

Water Level Sag

Manhole

STMH15264



94.70

100.00

24

25

887.0

961.0

MWLS

AMH

City of Coquitlam CCTV Inspection Report

Standard: PACP
Inspection ID: 34994

	Surveyed By	1		ertificate No.		0	wner			Customer	Drainage Area		Sheet No.			
Linton S			U-0317-	07006319					CITY OF C	OQUITLAM						
	P/O No.						PSR					Date / Time				
23-005			STPI152	62							Nov 2, 2023 8:41:00 AN					
_		Stre	et						City			Upstream MH No.				
GALIAN	O ST				COQ	UITLAN	Λ					STMH15263				
			Loc	ation Details					C=1.11.1.=		Downstream MH No.					
									STMH1526	4						
2.60		USMH Rim	to Invert					USMH	Grade to Invert		USN	AH Rim to G	rade			
2.68		DSMH Rim	4 - 1 4		DSMH Grade to Invert						DCA.	AH Rim to G				
1.85		DSWH KIM	to invert					DSWH	Grade to invert		DSN	NH KIM to G	rade			
1.05	Sewer Use			Direction		Flow	/ Contr	·ol		Height	Width		Shape			
	Jewel Osc		Downst		N			<u> </u>	200	e.ge		С	Snape			
	ı	Material				Method	i			Joint Length	Total Length	Length Surveyed				
CP									2.50			10	0.00			
	Year Laid		Y	ear Renewed							Purpose		Sewer Cat			
					STPI15262-34994.MP4											
	Pre-Cleaning	3		Date Cleaned		V	V/O#		Weather		Location		Pressure V			
?			11/02/2	023					5		Α					
		Proj	ect					Ado	ditional Info		R	Reverse Setu	р			
23-005																
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description			
17	71.00	689.0	TBA		150			N	10				Tap Break-in Active			
18	73.00	703.0	MWLS				5	N					Water Level Sag			
19	79.60	734.0	MWLS				10	N					Water Level Sag			
20	80.50	760.0	ТВ		150			N	2		GRAVEL IN SERVICE CONN		Tap Break-in			
21	85.90	793.0	MWLS				10	N					Water Level Sag			
22	88.40	821.0	TBA		200			N	3				Tap Break-in Active			
23	90.00	842.0	TBA		200			N	9				Tap Break-in Active			

90

Ν

Ν



Surveyed By Certificate No.		Owner	Customer	Drainage Area	Sheet No.		
Linton S	U-0317-07006319		CITY OF COQUITLAM				
P/O No.		PSR		Da	ate / Time		
23-005	STPI15286			Oct 31, 2023 1:27:00 PM			
	Street		City	Upstı	ream MH No.		
SAMUELS COURT		COQUITLAM		STMH15303			
	Location Details			Downstream MH No.			
			STMH15287				
USMF	I Rim to Invert	USMH G	rade to Invert	USMH	Rim to Grade		
2.78							
DSMF	I Rim to Invert	DSMH G	rade to Invert	DSMH	Rim to Grade		
3.10							
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Downstream	N	375		C		
Material		Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
RCP			2.50		21.30		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI15286-34954.MP4					
Pre-Cleaning	Date Cleaned	W/O #	Weather	Location	Pressure V		
?	10/31/2023		5	Α			
	Project	Addit	ional Info	Rev	verse Setup		
23-005							

					Value			Circumferential Location					
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	30.0	АМН					N			STMH15303		Manhole
2	0.00	40.0	MWL				0	N					Water Level
3	2.70	104.0	FM					Y	12	12			Fracture Multiple
4	3.80	127.0	ТВ		150			N	10				Tap Break-in
5	14.30	182.0	ТВ		150			N	10				Tap Break-in
6	21.30	232.0	АМН					N			STMH15287		Manhole



Surveyed By Certificate No.		Owner	Customer	Drainage Area	Sheet No.		
Linton S	U-0317-07006319		CITY OF COQUITLAM				
P/O No.		PSR		D	ate / Time		
23-005	STPI15317			Oct 30, 2023 11:23:00 AM			
	Street		City	Upstream MH No.			
SALT SPRING AVE		COQUITLAM	·	STMH15291			
	Location Details			Downstream MH No.			
			STMH15306				
USM	H Rim to Invert	USMH G	rade to Invert	USMI	l Rim to Grade		
2.61							
DSM	H Rim to Invert	DSMH G	rade to Invert	DSMI	l Rim to Grade		
2.64							
Sewer Use	Direction	Flow Control	Height	Width	Shape		
	Downstream	N	250		С		
Materia	I	Lining Method	Pipe Joint Length	Total Length	Length Surveyed		
CP			2.50		65.20		
Year Laid	Year Renewed	Media Label		Purpose	Sewer Cat		
		STPI15317-34939.MP4					
Pre-Cleaning	Date Cleaned	W/O#	Weather	Location	Pressure V		
?	10/30/2023		5	Α			
	Project	Addit	tional Info	Re	verse Setup		
23-005							

						Value			Circumferential Location				
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo	Description
1	0.00	141.0	АМН					N			STMH15291		Manhole
2	0.00	152.0	MWL				5	N					Water Level
3	1.30	179.0	IGB					N	7				Infiltration Gusher Barrel
4	1.30	207.0	FM					Y	6 11				Fracture Multiple
5	4.20	226.0	MWLS				5	N					Water Level Sag
6	9.80	264.0	TF		150			N	2				Tap Factory
7	11.40	281.0	TF		150			N	10				Tap Factory
8	11.40	291.0	MWLS				5	N					Water Level Sag
9	12.30	311.0	RMJ				5	Y	4				Roots Medium Joint
10	14.50	329.0	TF		150			N	10				Tap Factory
11	16.20	341.0	MWLS				5	N					Water Level Sag
12	22.30	374.0	MWLS				10	N					Water Level Sag
13	24.40	433.0	FC					N	12	12			Fracture Circumferential
14	25.50	456.0	TF		150			N	2				Tap Factory
15	27.00	470.0	TF		150			N	10				Tap Factory
16	32.10	504.0	MWLS				10	N	J				Water Level Sag

Coouitlam

26

65.20

821.0

 AMH

City of Coquitlam CCTV Inspection Report

Standard: PACP
Inspection ID: 34939

Manhole

	Surveyed By			rtificate No.		Own	er		Customer CITY OF COQUITLAM		Drainage	e Area		Sheet No.	
Linton S			U-0317-0	7006319					CITY OF COQUI	IILAM					
	P/O No.					PSR	1						ate / Tim	ie	
23-005			STPI1531	7							Oct 30, 2023 1				
		Stree	et					C	ty		Upstream MH No.				
SALT SPI	RING AVE				COQUIT	LAM					STMH15291				
			Locat	tion Details							Downstream	MH No.			
									STMH15306						
		USMH Rim t	to Invert				U	ISMH Gra	de to Invert		USMH Rim to Grade				
2.61															
2.64		DSMH Rim 1	to Invert				D	SMH Gra	de to Invert		DSMH Rim to Grade				
2.64						Flow Control Height									
	Sewer Use			Direction	NI	Flow Co	ntrol		Heigh	it	Widt	in	С	Shape	
			Downstre	edifi	N				250				C		
СР	Material				Lining Me	etnoa			Pipe Joint L	Lengtn	Total Le	ngtn	6.1	Length Surveyed 5.20	
CP					2.50 Media Label								0	Sewer Cat	
	Year Laid Year Renewed				STPI153			Dα		Pui	rpose			Sewer Cat	
	Pre-Cleaning		D-	ite Cleaned	כנבוווכ	W/O		11 4	Weath		Locati	ion		Pressure V	
?	rie-Cleaillig		10/30/20			W/O	#		5	lei	A	IOII		riessule v	
•		Proje		23	Additional Info						Reverse Setup				
23-005		rioje			Additional into							, KC	verse sec	мр	
25 005															
Line#	Distance	Video Ref	Code	Continuous Defect	1st	2nd	%	Joint	At/From	То	Remarks	Photo		Description	
17	34.90	542.0	TF		150			N	2				Tap Fac	ctory	
18	36.50	557.0	TF		150			N	10				Tap Fac	ctory	
19	38.10	574.0	TF		100			N	10				Tap Fac	ctory	
20	44.60	616.0	MWLS				5	N					Water	Level Sag	
21	47.40	684.0	TF		150			N	2				Tap Fac	ctory	
22	52.20	714.0	TF		100			N	10				Tap Fac	ctory	
23	55.00	732.0	MWLS				10	N					Water	Level Sag	
24	60.00	764.0	TF		150			N	2				Tap Fac	ctory	
25	61.60	782.0	ТВ		200			N	2				Tap Bre	eak-in	

Ν

STMH15306