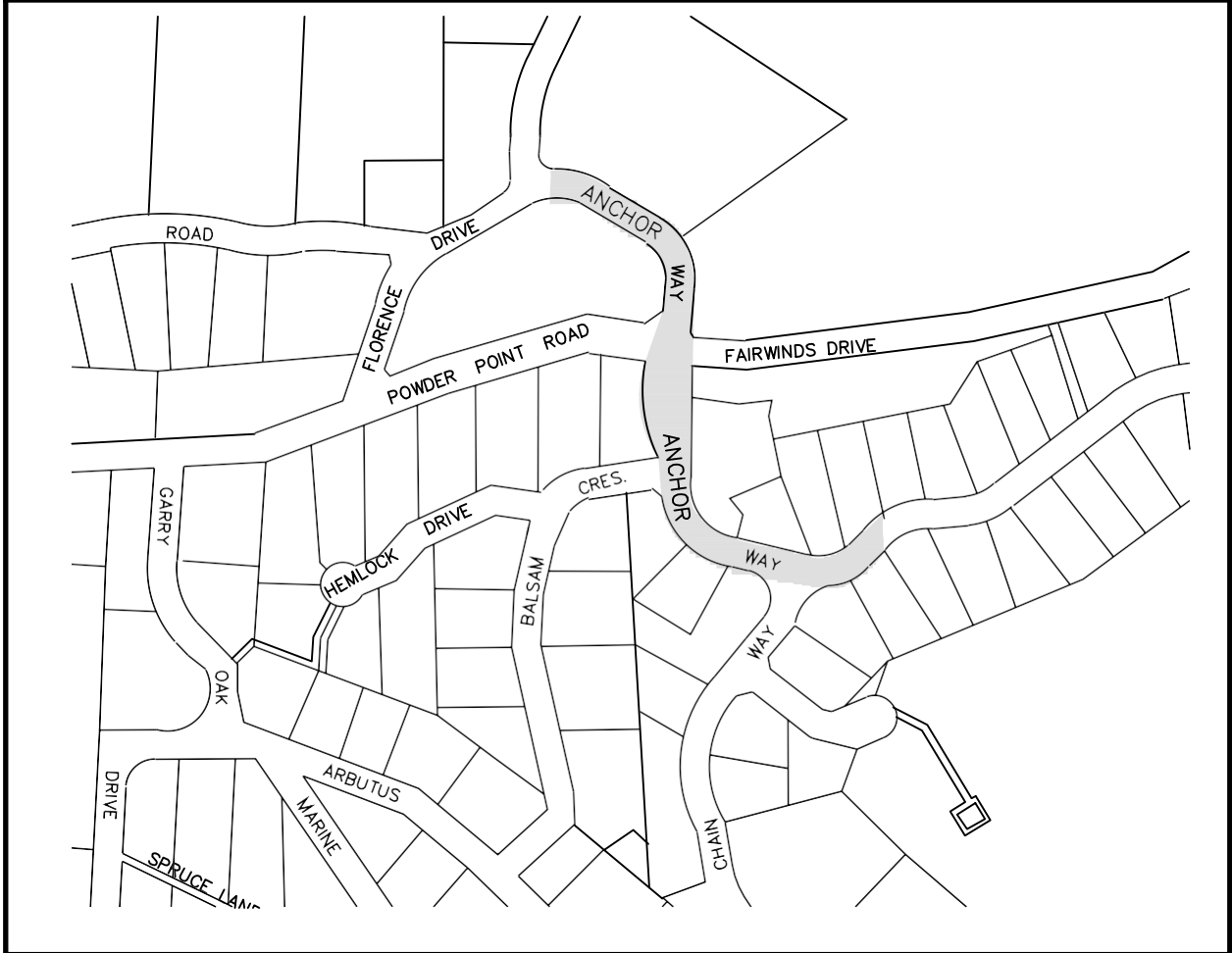


Regional District of Nanaimo

Nanose Bay Peninsula Water Service Area



Tender Documents

Anchor Way Watermain Replacement
RDN File: 5500-22-NBP



Regional District of Nanaimo
Anchor Way Watermain
Tender Documents

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MoTI Permit to Construct, Use and Maintain Works No. 2017-04626

Owner: **Regional District of Nanaimo**

(NAME OF OWNER)

Contract: **Anchor Way Watermain Replacement**

(TITLE OF CONTRACT)

Reference No. **RDN File: 5500-22-NBP**

(OWNER'S CONTRACT REFERENCE NO.)

The Owner invites tenders

for: **Supply, installation and testing of approximately 422 lineal metres of 200mmØ PVC watermain including appurtenances and service connections, removal of existing 150 AC pipe and completion of surface restorations on Anchor Way from Florence Drive to 2975 Anchor Way in Nanoose Bay, BC.**

(BRIEF DESCRIPTION OF THE WORK)

Contract Documents are available during normal business hours at:

Timberlake-Jones Engineering

Weldon Professional Centre

Suite 201-177 Weld Street

Parksville, BC V9P 2G3

(LIST ADDRESSES FOR DOCUMENT PICKUP)

Electronic (PDF) copies of the Tender Documents are available at no charge. Please contact michelle@tjeng.ca for documents. Hard copies of the tender documents are available on payment of a non-refundable amount of \$100.00 including GST payable to **Timberlake-Jones Engineering**.

Tenders are scheduled to close:

Tender Closing Time: 2:00, pm local time

Tender Closing Date: March 7, 20 18

Address: **RDN Utilities - 2nd Floor**

6300 Hammond Bay Rd.

Nanaimo, BC

V9T 6N2

(ADDRESS WHERE TENDERS MUST BE SUBMITTED)

**NAME OF OWNER'S
REPRESENTATIVE**

Michelle Jones

250-248-2001

(PHONE)

michelle@tjeng.ca

(EMAIL)

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

Owner: **Regional District of Nanaimo**

(NAME OF OWNER)

Contract: **Anchor Way Watermain Replacement**

(TITLE OF CONTRACT)

Reference No. **RDN File: 5500-22-NBP**

(OWNER'S CONTRACT REFERENCE NO.)

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:

Supply, installation and testing of approximately 422 lineal metres of 200mmØ PVC watermain including appurtenances and service connections; removal of existing 150 AC pipe; and completion surface restorations on Anchor Way from Florence Drive to 2975 Anchor Way in Nanoose Bay, BC

(BRIEF DESCRIPTION OF THE WORK)

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

Michelle Jones, P. Eng.

Contract Administrator

(NAME AND POSITION OF INDIVIDUAL WHO WILL ANSWER INQUIRIES)

Address: Suite 201–177 Weld Street

Parksville, BC V9P 2G3

Email: michelle@tjeng.ca

Phone: 250 248 - 2001

Fax: 250 248 - 2553

2.0 Tender Documents

2.1 The tender documents which a tenderer should review to prepare a tender consist of all of the *Contract Documents* listed in Schedule 1 entitled "Schedule of Contract Documents". Schedule 1 is attached to the Agreement which is included as part of the tender package. The *Contract Documents* include the drawings listed in Schedule 2 to the Agreement, entitled "List of *Contract Drawings*".

2.2 A portion of the *Contract Documents* are included by reference. Copies of these documents have not been included with the tender package. These documents are the Instructions to Tenderers - Part II, General Conditions, Specifications and Standard Detail Drawings. They are those contained in the publication entitled "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings". Refer to Schedule 1 to the Agreement or, if not specified in Schedule 1, then the applicable edition shall be the most recent edition as of the date of the *Tender Closing Date*. All sections of this publication are by reference included in the *Contract Documents*.

2.3 Any additional information made available to tenderers prior to the *Tender Closing Time* by the *Owner* or representative of the *Owner*, such as geotechnical reports or as-built plans, which is not expressly included in Schedule 1 or Schedule 2 to the Agreement, is not included in the *Contract Documents*. Such additional information is made available only for the assistance of tenderers who must make their own judgment about its reliability, accuracy, completeness and relevance to the *Contract*, and neither the *Owner* nor any representative of the *Owner* gives any guarantee or representation that the additional information is reliable, accurate, complete or relevant.

3.0 Submission of Tenders

3.1 Tenders must be submitted in a sealed envelope, marked on the outside with the above *Contract* Title and Reference No., and must be received by the office of:

Timberlake Jones Engineering

(TITLE OF POSITION)

on or before:

Tender Closing Time: 2 : 00 , pm local time

Tender Closing Date: March 7, 2018 at

Address: RDN Utilities - 2nd Floor

6300 Hammond Bay Rd.

Nanaimo, BC

V9T 6N2

Fax: 250-390-1542

3.2 Late tenders will not be accepted or considered, and will be returned unopened.

4.0 Additional Instructions to Tenderers:

- 4.1 **Site Examination** – The tenderer is responsible for visiting the project site and surrounding areas and becoming familiar with the area prior to submitting a bid.
- 4.2 **Award of Contract** – The Regional District Board of Directors must approve all contracts prior to issuance of a Notice of Award and Notice to Proceed. It is anticipated that a recommendation of Award for this Contract will be placed on the April 28, 2018 Board Agenda.
- 4.3 **Layout of Work.** In Accordance with GC 3.3.5 the contractor will be responsible for all construction layout required to execute the contract and construct the works in accordance with the design and specifications. Control points have been established in the field for this purpose.
- 4.4 **Materials Testing** - The owner will be responsible for payment of all material testing including density testing for pipe bedding and trench backfill, asphalt and concrete testing (if required). The contractor must coordinate with the materials testing firm (Lewkowich Engineering Associates Ltd. to arrange for a sieve analysis and proctor testing for pipe bedding and trench backfill material prior to construction start.
- The Contractor shall be required to perform all other testing procedures as required by Regional District of Nanaimo Bylaws and MMCD Specifications such as pressure testing, leakage testing, Disinfection, video inspection, proof roll test, etc.
- Bacteriological testing samples will be collected and submitted by Timberlake-Jones Engineering with the assistance of contractor as required.
- 4.5. **Permits**
- 4.5.1. A construction permit from Island Health has been issued for this project. Permit No. CN-2967 is included in Supplemental General Conditions. The contractor is required to adhere to conditions of the permit
- 4.5.2. A construction permit from the Ministry of Transportation and Infrastructure has been issued for this project. Permit No. 2017-04626 is included in Supplemental General Conditions. An extension to this permit will be obtained. The contractor is required to adhere to the conditions of the permit.
- 4.6 **Subsurface Condition** – No subsurface investigation has been undertaken for this project.

- 4.7 **Letter of Credit for Guarantee Period** - The Contractor shall, prior to issuance of the Final Progress Draw, deposit with the Owner a Standby Irrevocable Letter in the amount of Five Percent (5%) of the final contract value. The guarantee amount held during the warranty period will be released at the end of Maintenance period after an inspection by the Owner, Contract Administrator, and Contractor to confirm that all deficiencies have been corrected and that no new defects or deficiencies exist in the materials or workmanship in respect to the works.
- 4.8 **Completion of Works** – The Regional District of Nanaimo will allow flexibility within the construction schedule for this project. Substantial Performance shall be achieved no later than September 30, 2018. Once the project has been initiated it should be worked on continuously in a timely manner and should be completed without delay. Please provide number of working days to complete the works from start up to substantial completion on the Form of Tender.

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

Owner: **Regional District of Nanaimo**
(NAME OF OWNER)
Contract: **Anchor Way Watermain Replacement**
(TITLE OF CONTRACT)
Reference No. **RDN File: 5500-22-NBP**
(OWNER'S CONTRACT REFERENCE NO.)

To Owner:

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

_____;

(ADDENDA, IF ANY)

**ACCORDINGLY WE
HEREBY OFFER**

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

1.3 have complied with the Instructions to Tenderers; and

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 _____; and

(WORK DURATION OR DATE)

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

- WE CONFIRM:**
- 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.
 - 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.
- WE AGREE:**
- 5.1 that this tender will be irrevocable and open for acceptance by the *Owner* for a period of 90 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*:
 - .1 a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the Contract Price, covering the performance of the Work including the Contractor's obligations during the Maintenance Period, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the Owner;
 - .2 a Baseline Construction Schedule, as provided by GC 4.6.1;
 - .3 a "clearance letter" indicating that the tenderer is in Worksafe BC compliance; and
 - .4 a copy of the insurance policies as specified in GC 24 indicating that all such insurance coverage is in place and;
 - 5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and
 - 5.1.3 sign the Contract Documents as required by GC 2.1.2.

WE AGREE:

- 6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:
 - 6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or
 - 6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,
then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:
 - 6.1.3 the face value of the *Bid Security*; and
 - 6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

**OUR ADDRESS IS AS
FOLLOWS:**

Phone: _____
Fax: _____
Attention: _____

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

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

See paragraph 5.3.1 of the Instructions to Tenderers - Part II
All prices and quotations including the Contract Price shall include all taxes except the GST.
The GST shall be shown separately.

Summary Sheet

Section 1	General Conditions	_____
Section 2	Road & Siteworks	_____
Section 3	Waterworks	_____
	Subtotal	_____
	GST (5%)	_____
	Tender Price plus GST	<input type="text"/>

All prices and quotations including the Contract Price shall include all taxes except the GST.
The GST shall be shown separately.

<i>Item</i>	<i>MMCD Ref.</i>	<i>Specification Title</i>	<i>Unit</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Amount</i>
1 GENERAL CONDITIONS						
1.1	Supplementary Specifications	Traffic Control	Lump Sum	1		
1.2	Supplementary Specifications	Temporary Water service during Construction	Lump Sum	1		
1.3	Supplementary Specifications	Erosion & Sediment Control/Site Maintenance	Lump Sum	1		
		SUBTOTAL GENERAL CONDITIONS				
2 ROAD & SITEWORKS						
2.1	32 12 16 1.5.7	Saw Cut Asphalt or Concrete Pavements	Lineal Metres	200		
2.2	31 12 16 1.5.8	Permanent Pavement Restoration - Asphalt (50mm thick, includes base gravels)	Square Metres	220		
2.3	32 13 13 1.4.3	Permanent Pavement Restoration -Concrete (Driveways - 100mm thick)	Square Metres	20		
2.4	31 23 17 1.6.1-1.6.5	Trench Rock Excavation (Provisional)	m ³	50		
2.5	33 42 13 1.5.2	Culvert -500mm CSP Pipe, Import backfill.	Lineal Metres	16		
2.6	31 23 01 3.6.2	Boulevard Restoration -Includes Growing Medium (min. 100mm thick) and Hydraulic	Square Metres	800		
		SUBTOTAL ROAD & SITEWORKS				

Item	MMCD Ref.	Specification Title	Unit	Quantity	Unit Price	Amount
3		WATERWORKS				
3.1	Supplementary Specifications	Removal & Disposal of Existing AC Pipe	Lineal Metres	310		
3.2	33 11 01 1.8.1, - 1.8.2	Watermain 200mm PVC , DR18 CL235 C900, Import Backfill. Includes joint wrapping & restraints where	Lineal Metres	422		
3.3	33 11 01 1.8.3	Gate Valve - 150mm	Each	5		
3.4	33 11 01 1.8.3	Gate Valve - 200mm	Each	4		
3.5	33 11 01 1.8.3	Tee - 200mm x 200mm	Each	1		
3.6	33 11 01 1.8.3	Tee - 200mm x 150mm	Each	1		
3.7	33 11 01 1.8.3	Cross 200mm x 150mm	Each	1		
3.8	33 11 01 1.8.3	Bends- 200mm	Each	11		
3.9	33 11 01 1.8.3	Reducer - 200mm x 150mm	Each	1		
3.10	33 11 01 1.8.3	End Caps - 150 mm	Each	2		
3.11	33 11 01 1.8.3	Hydrant Assembly AVK Model 2780 per (Assembly includes , Spool, Restraints & Hydrant) Hydrants to	Each	2		
3.12	33 11 01 1.8.4	Water Service Connections - 20 mm PE Series 160	Each	9		
3.13	33 11 01 1.8.13	Connect to existing Hydrant Sta. 1+360	Each	1		
3.14	33 11 01 1.8.13	Watermain Tie -In STA 1+000	Lump Sum	1		
3.15	33 11 01 1.8.13	Watermain Tie -In STA 1+163.50	Lump Sum	1		
3.16	33 11 01 1.8.13	Watermain Tie -In STA 1+245.24	Lump Sum	1		
3.17	33 11 01 1.8.13	Watermain Tie -In STA 1+272.88	Lump Sum	1		
3.18	33 11 01 1.8.13	Watermain Tie -In STA 1+356.79	Lump Sum	1		
3.19	33 11 01 1.8.13	Watermain Tie -In STA 1+436.61	Lump Sum	1		
3.20	Supplementary Specifications	Concrete Trench Dam (inlcudes drain)	Each	8		
		SUBTOTAL WATERWORKS				

Anchor Way Watermain Replacement

(TITLE OF CONTRACT)

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

Name: _____

Experience: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____

Anchor Way Watermain Replacement

(TITLE OF CONTRACT)

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

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

Tenderer's Initials _____

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

BETWEEN *OWNER* AND *CONTRACTOR*

This agreement made in duplicate this

_____ day of _____, 20____.

Contract: **Anchor Way Watermain Replacement**
(TITLE OF CONTRACT)
Reference No. **RDN File: 5500-22-NBP**
(OWNER'S CONTRACT REFERENCE NO.)

BETWEEN:

The **Regional District of Nanaimo**

(NAME OF OWNER)

(the "*Owner*")

AND:

(NAME AND OFFICE ADDRESS OF CONTRACTOR)

(the "*Contractor*")

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

- | | | |
|--|-----|--|
| Article 1 The Work Start / Completion Dates | 1.1 | The <i>Contractor</i> will perform all <i>Work</i> and provide all labour, equipment and material and do all things strictly as required by the <i>Contract Documents</i> . |
| | 1.2 | The <i>Contractor</i> will commence the <i>Work</i> in accordance with the <i>Notice to Proceed</i> . The <i>Contractor</i> will proceed with the <i>Work</i> diligently, will perform the <i>Work</i> generally in accordance with the construction schedules as required by the <i>Contract Documents</i> and will achieve <i>Substantial Performance</i> of the <i>Work</i> on or before _____ subject to
(INSERT DATE OF SUBSTANTIAL PERFORMANCE)
the provisions of the <i>Contract Documents</i> for adjustments to the <i>Contract Time</i> |
| | 1.3 | Time shall be of the essence of the <i>Contract</i> . |

Article 2 Contract Documents

- 2.1 The "*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*.

Article 3 Contract Price

- 3.1 The price for the *Work* ("*Contract Price*") shall be the sum in Canadian dollars of the following
- 1.1.1 the product of the actual quantities of the items of *Work* listed in the *Schedule of Quantities and Prices* which are incorporated into or made necessary by the *Work* and the unit prices listed in the *Schedule of Quantities and Prices*; plus
 - 1.1.2 all lump sums, if any, as listed in the *Schedule of Quantities and Prices*, for items relating to or incorporated into the *Work*; plus
 - 1.1.3 any adjustments, including any payments owing on account of *Changes* and agreed to *Extra Work*, approved in accordance with the provisions of the *Contract Documents*.
- 3.2 The *Contract Price* shall be the entire compensation owing to the *Contractor* for the *Work* and this compensation shall cover and include all profit and all costs of supervision, labour, material, equipment, overhead, financing, and all other costs and expenses whatsoever incurred in performing the *Work*.

Article 4 Payment

- 4.1 Subject to applicable legislation and the provisions of the *Contract Documents*, the *Owner* shall make payments to the *Contractor*.
- 4.2 If the *Owner* fails to make payments to the *Contractor* as they become due in accordance with the terms of the *Contract Documents* then interest calculated at 2% per annum over the prime commercial lending rate of the Royal Bank of Canada on such unpaid amounts shall also become due and payable until payment. Such interest shall be calculated and added to any unpaid amounts monthly.

Article 5 Rights and Remedies

- 5.1 The duties and obligations imposed by the *Contract Documents* and the rights and remedies available thereunder shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law.

5.2 Except as specifically set out in the *Contract Documents*, no action or failure to act by the *Owner*, *Contract Administrator* or *Contractor* shall constitute a waiver of any of the parties' rights or duties afforded under the *Contract*, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach under the *Contract*.

Article 6 Notices

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

The *Owner*:

Regional District of Nanaimo

6300 Hammond Bay Road

Nanaimo, BC V9T 6N2

Fax: **250-390-1542**

Attention: **Gerald St. Pierre, P. Eng.**

The *Contractor*:

Fax: _____

Attention: _____

The *Contract Administrator*:

Timberlake-Jones Engineering

#201-177 Weld Street, PO Box 89

Parksville, BC V9P 2G3

Fax: **250-248-2553**

Attention: **Michelle Jones, P. Eng.**

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

1.1.4 immediately upon delivery, if delivered by hand; or

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

1.1.6 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*.
- 6.4 The sender of a notice by fax assumes all risk that the fax is received in hard copy.

Article 7 General

- 7.1 This *Contract* shall be construed according to the laws of British Columbia.
- 7.2 The *Contractor* shall not, without the express written consent of the *Owner*, assign this *Contract*, or any portion of this *Contract*.
- 7.3 The headings included in the *Contract Documents* are for convenience only and do not form part of this *Contract* and will not be used to interpret, define or limit the scope or intent of this *Contract* or any of the provisions of the *Contract Documents*.
- 7.4 A word in the *Contract Documents* in the singular includes the plural and, in each case, vice versa.
- 7.5 This agreement shall ensure to the benefit of and be binding upon the parties and their successors, executors, administrators and assigns.

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

Contractor:

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Owner:

Regional District of Nanaimo

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

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

Schedule 1 Schedule of Contract Documents

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

NOTE: The documents noted with “*” are contained in the “Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings”, Platinum Edition dated , 2009. All sections of this publication are included in the *Contract Documents*. The Documents noted with a “+” are contained in Regional District of Nanaimo Bylaw No. 500 Schedule ‘4C1’ All sections of this publication are included in the Contract Documents.

- 8.1 Agreement, including all Schedules;
- 8.2 Supplementary General Conditions
Island Health Permit No. W-CN-2967
MOTI Permit No. 2017-04626
- 8.3 General Conditions*;
- 8.4 Supplementary Specifications;
- 8.5 Specifications**;
- 8.6 Supplementary Standard Detail Drawings
- 8.7 Standard Detail Drawings** ;
- 8.8 Executed Form of Tender, including all Appendices;
- 8.9 *Contract Drawings* listed in Schedule 2 to the Agreement, “List of *Contract Drawings*”;
- 8.10 Instructions to Tenderers - Part I;
- 8.11 Instructions to Tenderers - Part II*;
- 8.12 The following Addenda:

Addendum #1- August 08, 2017

(ADDENDA, IF ANY)

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

Schedule 2 List of Contract Drawings

TITLE	DRAWING NO.	REVISION NO.	REVISION DATE
Key Plan	324-01-01	C	July 17, 2017
Anchor Way Plan & Profile 1+000 to 1+150	324-01-02	C	July 17, 2017
Anchor Way Plan & Profile 1+150 to 1+300	324-01-03	C	July 17, 2017
Anchor Way Plan & Profile 1+300 to 1+445	324-01-04	C	July 17, 2017

Supplementary Specifications

Drawings and Specifications Furnished

- 1.1 The Owner will provide 4 copies of drawings to the Contractor
- 1.2 The Contractor will maintain at the Site one complete set of drawings to be made available to the Engineer at all times.
- 1.3 The contractor shall pay for additional copies of drawings if required.

Emergency Contact Information

- 2.1 Before commencement of construction, the Contractor shall provide the Contract Administrator with a list of names and telephone numbers for contractor's representatives who can be called outside of normal working hours in case of emergencies.

Submittals

The contractor shall deliver submittals to the Contract Administrator for review in a prompt and timely manner so as not to cause delay in the Work. All submittals shall be submitted prior to scheduling the pre-construction meeting. No payment will be made for work specified in this section. Payment for all work under this section is incidental to the construction and shall be included in the appropriate tendered prices shown in the tender form.

3.1 Erosion and Sediment Control Plan

The Contractor shall submit an Erosion and Sediment Control Plan (ESCP) to the Engineer for review and approval seven days prior to the Pre-construction meeting. The ESCP shall indicate how the Contractor plans to control sediment discharges from the project and what measures will be put in place to prevent damage to downstream features and habitat.

3.2 Traffic Management Plan

The Contractor shall submit to the Contract Administrator a Traffic Management Plan detailing how they propose to control traffic in areas affected by operations.

Access shall be maintained for all local traffic in the vicinity of the construction area. When it is necessary to block access to roadways or driveways, the contractor shall notify the property owner 24 hours in advance and again 1 hour before access is blocked. Any trench excavation blocking access shall be backfilled immediately after placement of pipe.

3.3 Asbestos Cement Pipe Safe Work Procedure

AC Pipe may be abandoned in place wherever feasible. If AC Pipe must be removed to install new watermain it must be disposed of in accordance with the Waste Management Act. The Contractor shall submit to the Contract Administrator, a Plan detailing proposed methodology for asbestos cement pipe removal and disposal. The plan shall be in compliance with the applicable Worksafe BC regulations. Proof of disposal of AC pipe to the RDN Regional Landfill may be requested by the contract administrator.

3.4 Temporary Water Service Plan

Water service must be maintained to all customers within the service area during construction with the exception of approved shutdowns to complete tie-ins. In order to facilitate construction of the new watermain on the same alignment as the existing main, a temporary water system will need to be installed. A plan detailing the proposed temporary water system shall be submitted for approval prior to construction.

Record Drawings

The Contractor will keep and maintain an updated record throughout the project of all changes made to the original design. The changes and notes will be made in red ink on an "as-constructed" drawing set, and shall be available to the owner and contract administrator for review upon request. This set shall be submitted to the contract administrator for review prior to the final inspection, and before project completion. The Certificate of Total Performance will not be issued until an approved set of marked up record drawings have been submitted.

Measurement and Payment

5.1 Traffic Control

Payment for Traffic Control will be made at the lump sum price as shown on the Schedule of Quantities and Prices. The price shall include all materials, labour and equipment required to implement the approved Traffic Management Plan throughout the project in accordance with MMCD Section 01 55 00.

Payment will be made as follows: 50% of the lump sum amount will be paid upon installation of signage and set up of traffic control. The remainder will be paid as a prorated amount based upon percentage complete of the entire contract. Final payment will not be made until all signage has been removed from the project site.

5.2 Temporary Water Service During Construction

Payment for Temporary Water Service During Construction will be paid at the lump sum price as shown on the Schedule of Quantities and Prices. The price shall include all materials, labour and equipment required to install maintain and remove the temporary water system in accordance with the approved Plan. The price shall include all piping, valves, fittings, pressure/leakage testing, bacteriological testing, commissioning and decommissioning and works incidental thereto.

Payment will be made as follows: 50% of the lump sum amount will be paid upon commissioning of the temporary water system. The remainder will be paid as a prorated amount based upon percentage complete of the entire contract. Final payment will not be made until the temporary water system has been decommissioned and all materials have been removed from the project site.

5.3 Erosion and Sediment Control

Payment for Erosion and Sediment Control will be made at the lump sum price as shown on the Schedule of Quantities and Prices. The price shall include all materials, labour and equipment required to implement the approved Erosion and Sediment Control Plan and to keep a clean and tidy site during construction.

Payment will be made as follows: 50% of the lump sum amount will be paid upon installation of erosion and sediment control measures. The remainder will be paid as a prorated amount based upon percentage complete of the entire contract. Final payment will not be made until all works have been removed from the project site.

5.4 Removal and Disposal of AC Pipe

Payment for Removal and disposal of AC Pipe will be made at the unit price per lineal meter as shown on the Schedule of Quantities and Prices. Measurement will be made horizontally along the centreline of the pipe removed. The price shall include all materials, labour and equipment required to remove and dispose of the AC Pipe in with the approved AC Pipe Safe Removal Procedure and Worksafe BC regulations.

5.5 Concrete Trench Dams

Payment for Concrete Trench Dams will be made at the unit price per trench dam as shown on the Schedule of Quantities and Prices. The price shall include all materials, labour and equipment required to supply and install concrete trench dams in accordance with the contract documents.

Supplementary General Conditions

Permits

- 1.1 Island Health –
Water Supply System Construction Permit No W-CN-2967- Anchor Way

- 1.2 Ministry of Transportation & Infrastructure
Permit to Construct, Use and Maintain Works within the Right-of-Way of a Provincial
Public Highway No. 2017-04626

August 3, 2017

W-CN, Nanoose Bay Peninsula LSA
(Nanaimo, Regional District of)
Timberlake-Jones File No.: 44800-01

Gerald St. Pierre, P. Eng.
Regional District of Nanaimo
6300 Hammond Bay Road
Nanaimo, BC V9T 6N2

Dear Mr. St. Pierre;

Re: Water Supply System Construction Permit No. W-CN-2967 – Anchor Way

Please find enclosed **Water Supply System Construction Permit No. W-CN-2967**, issued under Section 7 of the **Drinking Water Protection Act**, authorizing construction of a proposed watermain replacement along Anchor Way to serve existing and future development in the Nanoose Bay Peninsula Local Service Area of the Regional District of Nanaimo, BC

This permit is valid for one year and is not transferable unless the transfer is approved by the Issuing Official or the Drinking Water Officer. This permit is subject to the following terms:

Design Deviations: This permit applies exclusively to the works as approved. Any subsequent design modifications will require the submission of amended drawings to the Issuing Official or Drinking Water Officer and approval obtained before installation of the amended works.

Disinfection: It is the responsibility of the water distribution system owner (Regional District of Nanaimo) to ensure that, following the completion of construction, repair, or draining and refilling of any portion of the system affected, and prior to the delivery of water to customers served by these works, all waterworks affected by this permit are disinfected in accordance with the appropriate American Water Works Association (AWWA) standard or equivalent.

Chlorinated water used for disinfection of all waterworks shall not be directly discharged into the environment without the permission of the Ministry of Environment, and/or Fisheries and Oceans Canada.

The water supplier (Regional District of Nanaimo) shall maintain records of the completion date of the permitted work, and the results of the bacteriological testing conducted as part of the disinfection protocol. The water supplier shall notify the Vancouver Island Health Authority if bacteriological tests are unacceptable. These records shall be made available for inspection by the public health engineer or Vancouver Island Health Authority personnel, if requested.

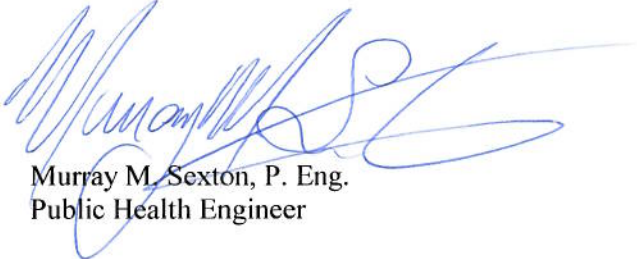
Sewers: It is the responsibility of the water distribution system owner (Regional District of Nanaimo) to ensure that mains under construction or repair are not contaminated by seepage or effluent from sewers or storm drains.

Future Construction: The water distribution system owner (Regional District of Nanaimo) shall ensure that no future sanitary sewer or storm sewer is constructed within 3.0 meters, measured horizontally (parallel construction), or 45 cm, measured vertically (crossings), of the watermain without the approval of the Public Health Engineer.

This document grants authorization under Section 7 of the **Drinking Water Protection Act** only, and does not constitute permission or consent under any other Act or authority.

Please contact Public Health Engineering through the Vancouver Island Health Authority in Nanaimo, should there be any questions concerning the above.

Yours truly,



Murray M. Sexton, P. Eng.
Public Health Engineer

e.c.: Anthony Griffin, Environmental Health Officer, Island Health, Nanaimo
M. Jones, P.Eng., Timberlake-Jones Engineering, Nanaimo

Enclosure

MS/jd

W-CN, Nanoose Peninsula LSA
(Nanaimo, Regional District of)

Water Supply System Construction Permit

NO. W-CN-2967

To: Regional District of Nanaimo

Anchor Way

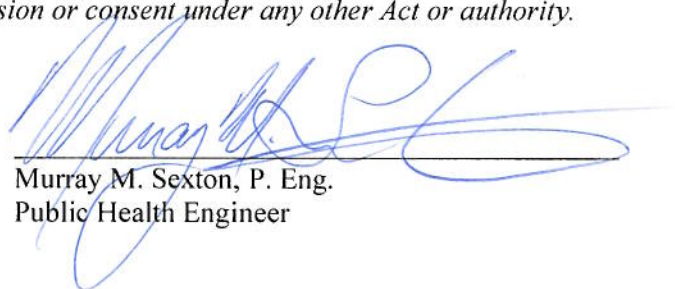
This is to certify that drawings numbered 324-01-01 (Rev. C), 324-01-02 (Rev. C), 324-01-03 (Rev. C) and 324-01-04 (Rev. C) of project number 5500-22-NBP, dated July 17, 2017, prepared and submitted July 17, 2017 by M. Jones, P.Eng., of Timberlake-Jones Engineering, portraying a proposed watermain replacement comprising of *approximately 425 metres of 200-mm diameter PC235 PVC pipe and other related appurtenances* to serve existing and future development in the Nanoose Bay Peninsula Local Service Area of the Regional District of Nanaimo, BC, and submitted in accordance with Section 7 of the **Drinking Water Protection Act** have been reviewed and proposed construction, alteration or extension may be commenced in accordance with the approved plans and the terms and conditions contained in the letter of transmittal.

This document certifies that the plans and specifications for the proposed works have been reviewed pursuant to the current "Guidelines for the Approval of Water Supply Systems" issued by the Vancouver Island Health Authority and that the plans and specifications meet the protection requirements outlined in the Guidelines.

*The standards of structural integrity and safety of the works have not been considered and are not the subject of this Permit. This document grants authorization under Section 7 of the **Drinking Water Protection Act** only, and does not constitute permission or consent under any other Act or authority.*

AUG 03 2017

Date Issued



Murray M. Sexton, P. Eng.
Public Health Engineer

e.c.: Anthony Griffin, Environmental Health Officer, Island Health, Nanaimo
M. Jones, P.Eng., Timberlake-Jones Engineering, Nanaimo



PERMIT TO CONSTRUCT, USE, AND MAINTAIN WORKS WITHIN THE RIGHT-OF-WAY OF A PROVINCIAL PUBLIC HIGHWAY

PURSUANT TO TRANSPORTATION ACT AND/OR THE INDUSTRIAL ROADS ACT AND/OR THE MOTOR VEHICLE ACT AND/OR AS DEFINED IN THE NISGA'A FINAL AGREEMENT AND THE NISGA'A FINAL AGREEMENT ACT.

BETWEEN:

The Minister of Transportation and Infrastructure

Vancouver Island District
Third Flr
2100 Labieux Road
Nanaimo, BC V9T 6E9
Canada

("The Minister")

AND:

Regional District of Nanaimo
6300 Hammond Bay Road
Nanaimo, British Columbia V9T6N2
Canada

("The Permittee")

WHEREAS:

- A. The Minister has the authority to grant permits for the auxiliary use of highway right of way...
B. The Permittee has requested the Minister to issue a permit pursuant to this authority for the following purpose:
The installation, operation, and maintenance of a PVC Water main within Anchor Way and Fairwinds Drive as per application and shown on Timberlake Jones Engineering drawings #324-01-01 through 324-01-04 received July 17, 2017.
C. The Minister is prepared to issue a permit on certain terms and conditions;

ACCORDINGLY, the Minister hereby grants to the Permittee a permit for the Use (as hereinafter defined) of highway right of way on the following terms and conditions:

- 1. That the construction and maintenance of the said works is carried out to the satisfaction of the Regional Director, Transportation.
2. That, before opening up any highway or interfering with any public work, intimation in writing of the intention to do so must be given to the District Official at least seven days before the work is begun.
3. That any person appointed by the Regional Director, Transportation, for the purpose shall have free access to all parts of the works for the purpose of inspecting the same.
4. That the construction of the said works shall be commenced on or before August 27, 2017 and shall be prosecuted with due diligence and to the satisfaction of the Regional Director, Transportation, and shall be completed on or before October 27, 2017.
5. (a) The highway must at all times be kept open to traffic. The roadway must be completely restored for traffic as soon as possible. At all times the permittee must safeguard the traveling public.
(b) That, unless with the consent of the Regional Director, Transportation, no more than forty-five (45) metres of pipe-track or other excavation in any public highway is to be kept open at one time.



(c) All excavation work must be carried out in accordance with the BC Occupational Health and Safety Regulation. Care shall be taken to protect adjacent property.

(d) That all excavations shall be carefully back-filled with suitable material, which is to be tamped into place, and that the permittee shall restore the surface of the road and shoulders and ditches at his own expense. All surplus material is to be removed from the Provincial Crown lands, or deposited where and as required by the District Official of the Ministry of Transportation and Infrastructure. The permittee is financially responsible for any maintenance works required on said ditch for a period of one year. The Ministry will carry out the necessary remedial work and invoice the permittee monthly.

(e) The pipeline crossing installation is to be placed by drilling and (or) jacking in such a manner as to afford minimum grade settlement. No water jetting will be permitted. That where, in the opinion of the District Official, an excavation or opening for a pipeline crossing installation could be made which would not be detrimental to the highway or its users, permission will be granted for said works. On throughways, freeways, and main highways no open cuts will be allowed.

(f) That all pipelines in excess of a nominal diameter of 5 cm., whether gas, oil, water, pressure sewers, conduits, etc., shall be installed where indicated by the District Official, encased in a steel casing-pipe or conduit-pipe of sufficient strength to withstand all stresses and strains resulting from the location, such casing to extend the full width of the highway right-of-way if deemed necessary to the District Official. The ends of the casing-pipe shall be suitably sealed and, if required, properly vented above the ground with vent-pipes not less than 5 cm. in diameter, and extending not less than 1.2 metres above ground surface. Vent-pipes shall be connected 30 cm. from the ends of the casing-pipe, and the top of each vent shall be fitted with a turn-down elbow, properly screened and equipped with identification markers.

All pipelines of non-rigid material, i.e., plastic or copper, of any diameter, shall be cased, or embedded in sand.

The inside diameter of the casing-pipe shall be at least 25 percent larger than the outside diameter of the pipeline. The casing-pipe shall be installed with an even bearing throughout its length, and in such a manner so as to prevent leakage, except through the vents.

The top of the casing-pipe, or the pipeline where casing is not required, shall be located as directed by the District Official, and shall in no case be less than 1.2 metres below the surface of the highway and not less than 75 cm below the highway ditches. Pipelines must not obstruct drainage structures or ditches or interfere with traffic on the highway or with highway maintenance.

6. That where the work for which permission is hereby granted comes in contact with any bridge, culvert, ditch, or other existing work, such existing work must be properly maintained and supported in such manner as not to interfere with its proper function during the construction of the new work, and on the completion of the new work the bridge, culvert, ditch, or other existing work interfered with shall be completely restored to its original good condition.
7. That when necessary all excavations, materials, or other obstructions are to be efficiently fenced, lit, and watched, and at all times every possible precaution is to be taken to ensure the safety of the public.
8. That the person or persons for whom these works are being constructed, or by whom these works are maintained, shall at all times accept full responsibility for any accident that may occur or damage that may be done to any person or property whatsoever caused directly or indirectly by these works, and shall save harmless and keep indemnified the Crown from all claims and demands whatsoever in respect of the works.
9. That the permission herein granted to use and maintain the works is only granted for such times as the land or public work in, upon, or over which the said works are constructed is under the jurisdiction of the Minister of Transportation and Infrastructure. This permission is not to be construed as being granted for all time, and shall not be deemed to vest in the permittee any right, title or interest whatsoever in or to the lands upon which the works are constructed. Should the lands affected at any time be included within that of an incorporated municipality or city, this permission shall become void, unless the works are on a highway duly classified as an arterial highway pursuant to Section 45 of the Transportation Act.
10. That after receiving notice in writing of the intention on the part of the Provincial Government to construct, extend, alter, or improve any public work, the person or persons responsible for the maintenance of the works for which permission is hereby granted shall within six weeks move or alter such work at his or their own expense to such new positions or in such manner as may be necessitated by the construction, extension, alteration, or improvement proposed to be carried out by the Provincial Government.
11. That while reasonable care will be taken on the part of the Provincial Government to do as little damage as possible to any private work in the carrying-out of the construction, extension, alterations, improvement, repair, or maintenance of any public work adjacent thereto, the Provincial Government can accept no responsibility for any kind of such damage.
12. That the permission hereby granted to construct, use, and maintain work is granted without prejudice to the provisions of the Transportation Act, or other Acts governing Crown lands and public works or their use by the public.
13. That this permission shall be in force only during such time as the said works are operated and maintained by the applicants, to the entire satisfaction of the Regional Director, Transportation.
14. That the Ministry will not be responsible for grade changes on accesses caused by reconstruction of any Provincial highway.



15. This permit is valid only for the specific works stated herein. Any alterations or additions must be covered by a separate permit.
16. This permit may be canceled, at the discretion of the Minister, without recourse, should the permittee fail to comply with all the terms of the permit. Thirty days' notice will be given before cancellation.
17. When the requirements of the Ministry necessitate use of the said lands for Provincial purposes, at the discretion of the Minister, this permit may be canceled.
18. That these works shall be identified with this permit number in a manner satisfactory to the District Official of the Ministry of Transportation and Infrastructure.
19. As a condition of this permit, the permittee unconditionally agrees with the Ministry of Transportation and Infrastructure that the permittee is the prime contractor or will appoint a qualified prime contractor, as described in Section 118 of the Workers Compensation Act, for the purposes of the work described by this permit, at the work location described in this permit, and that the permittee or designated prime contractor will observe and perform all of the duties and obligations which fall to be discharged by the prime contractor pursuant to the Workers Compensation Act and the Occupational Health and Safety Regulation.
20. The permittee is advised and acknowledges that the following hazards may be present at the work location and need to be considered in co-ordinating site safety: overhead hazards, particularly electrical or telecommunications lines; buried utilities, particularly electrical, telecommunication, and gas lines; traffic, danger trees, falling rocks, and sharp or infectious litter.
21. Any works within the Ministry right-of-way that fall within the scope of "engineering" under the Engineers and Geoscientists Act will be performed by a Professional Engineer, and shall comply with this Ministry's "Engineer of Record and Field Review Guidelines". The Guidelines can be viewed on the Ministry's website at http://www.th.gov.bc.ca/publications/Circulars/All/T_Circ/2009/106-09.pdf
22. The permittee is responsible for preventing the introduction and spread of noxious weeds on the highway right-of-way as defined by the British Columbia Weed Control Act and Weed Control Regulation.
23. **Protection of Survey Monuments**
The Permittee shall be responsible for the preservation during construction of all geodetic benchmarks, survey monuments and property markers on the right-of-way. The Permittee shall use, at no expense to the Ministry, a British Columbia Land Surveyor to replace any survey monuments destroyed or damaged as a result of the Permittee's negligence. At locations where construction work will cover or destroy such markers, the Permittee shall not move or remove them until written direction is received from the Ministry Representative.
24. **Protection of Roads**
The Permittee shall ensure all equipment working on or hauling material on to and from the Site does not damage or deposit material onto any part of an existing roadway. Materials spilled onto the public roadways or driveways opened to public traffic shall be cleaned up immediately. The Permittee has the full responsibility to repair any damage to existing highways, local roads and driveways caused by its construction equipment and/or operations.
25. **Accommodation of Traffic**
The Permittee shall, at his cost, supply, erect, and maintain standard traffic control devices in accordance with the Ministry of Transportation and Infrastructure Traffic Control Manual for Works on Roadways and Occupational Health and Safety Regulation.
26. **Trenching Standards**
Pavement must be cut by hand or approved mechanical means in straight lines parallel to the trench centreline.
Distance from a pavement cut to the edge of the trench must be at least 150 mm or sufficient to ensure the pavement will not be undermined by sloughing.
Except where trenching is well clear of the road shoulder, all excavated material must be removed from the site immediately.
Stockpiling of native material adjacent to the trench is not permitted.
Trenches must be backfilled or adequately covered at the end of the work day
Trench shoring must conform to WorkSafe BC standards and is to be used where soil conditions warrant. Extreme care must be taken to avoid sloughing of the trench sides to minimize damage to the subgrade beyond the limits of excavation.
27. **Trench Backfill**
Pipe bedding must conform to industry standards.
Where sloughing of trench sides has undermined the pavement, the pavement must be marked with a painted line showing the extent of the damaged area. Pavement must be removed from this area and the voids filled and compacted in accordance with backfill requirements.



Trenches must be backfilled with granular material that meets Ministry standards as set out in Section 202.02 (Table 202-C), 2009 Standard Specifications for Highway Construction and all subsequent interim revisions and updates, in accordance with the following minimum requirements:

(a) Sub-base material must meet or exceed specified requirements for Select Granular Sub Base aggregates.

(b) Crushed Base Course depth is to match existing depth, but must not be less than 300 mm compacted thickness and consist of "25 mm minus" WGB (or IGB) crushed aggregate.

Backfill must be placed in layers not exceeding 150 mm compacted thickness and shall be compacted with approved tamping equipment to a minimum of 95 percent Proctor density to within 300 mm of the surface and 100 percent for the final 300 mm.

28. Temporary Patching

As soon as any portion of the highway can be re-opened to traffic, a temporary asphalt patch must be applied.

29. Permanent Patching

Pavement edges must be cut, made true and straight, cleaned, and primed before installing a final patch.

Asphalt concrete must be restored to the same thickness as the existing surface or to a minimum of 75 mm thickness, whichever is greater. Asphaltic concrete must meet Ministry standards as set out in Section 502, Standard Specifications for Highway Construction.

Asphalt concrete is to be laid in two or more lifts or layers. Each lift is to be thoroughly compacted before successive lifts are applied.

The Permittee will ensure that the permanent pavement patch is to Ministry standards for one year from the date that the patch is installed.

30. Highest Standards Apply

Where the Ministry and a regulator both set a standard or requirement in a particular area, the highest or most stringent of the two will apply to any installation on highway right-of-way.

31. Clean Up

All unsuitable material and inorganic debris shall be removed from the project area. All surplus or unsuitable organic waste and debris shall be removed from the site unless its complete burning is approved by the Designated Ministry Official in compliance with the B.C. Open Burning Smoke Control regulation.

32. Revegetation Seeding

Sites are to be reseeded to standards set out in Section 757, Standard Specifications for Highway Construction.

33. Excavations across entrances

Excavations across entrances, whether private or commercial, must be backfilled and thoroughly compacted by the end of the current working day. The surface must be restored, whether paved or gravel, to its original condition within 48 hours.

Affected property owners must be notified at least 48 hours in advance before excavating a driveway.

34. Removal

The Minister may order the removal or alteration of utility installations, if necessary, for the protection of the highway or highway users.

If the utility owner does not respond to an order to remove or alter a utility installation, the Minister may carry out that work and recover costs from the utility.

35. Permittee is responsible for ensuring that all works are contained to the highway right of way. Any works located within private property must have the owner's permission.

36. A copy of the permit is to be kept by the field supervisor, in order that he is aware of all permit conditions.

37. As constructed drawings shall be provided, to Regional and District Highways offices, covering all works permitted within our right-of-way.



BRITISH
COLUMBIA

Ministry of Transportation
and Infrastructure

Permit/File Number: 2017-04626
Office: Vancouver Island District

The rights granted to the Permittee in this permit are to be exercised only for the purpose as defined in Recital B on page 1.

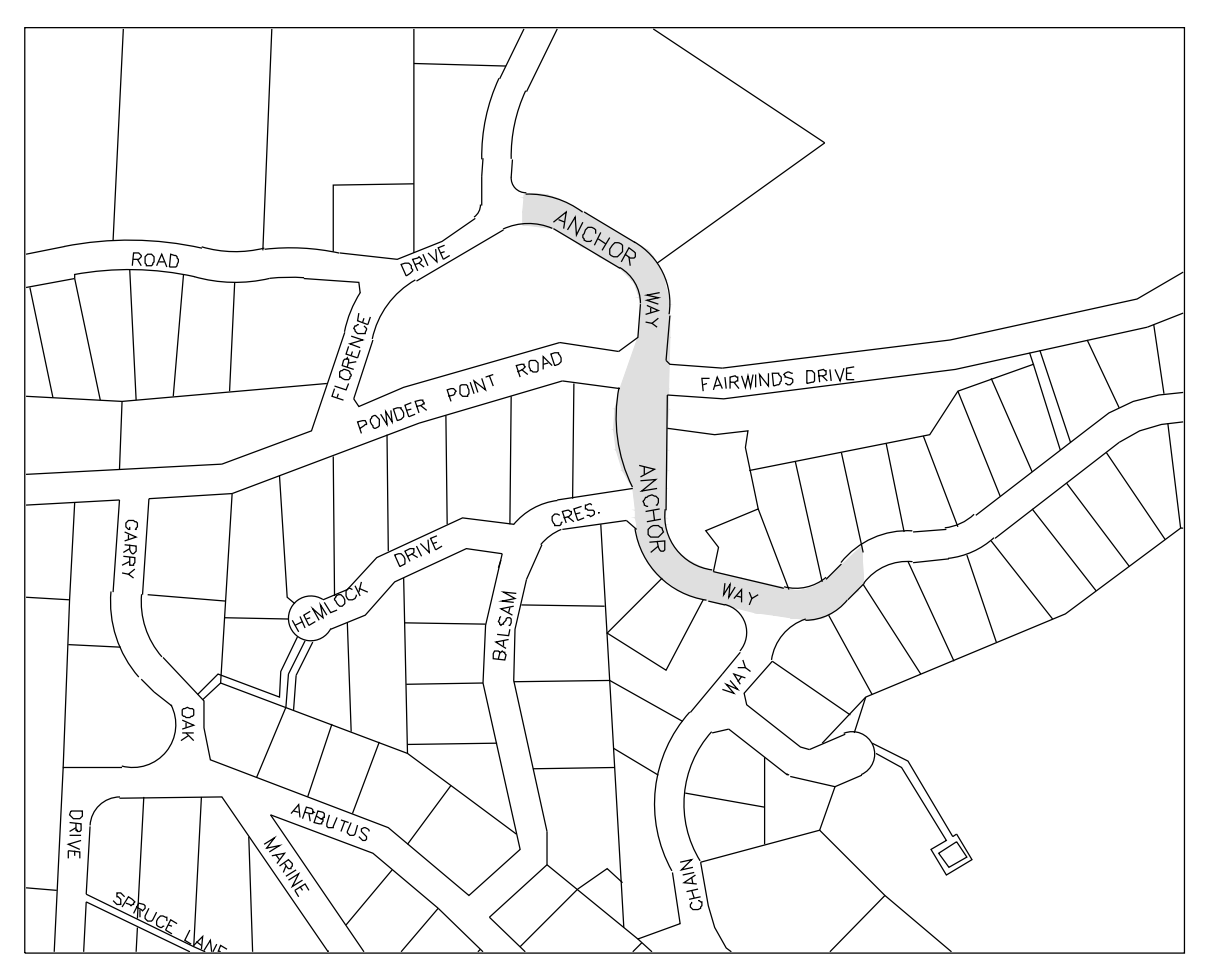
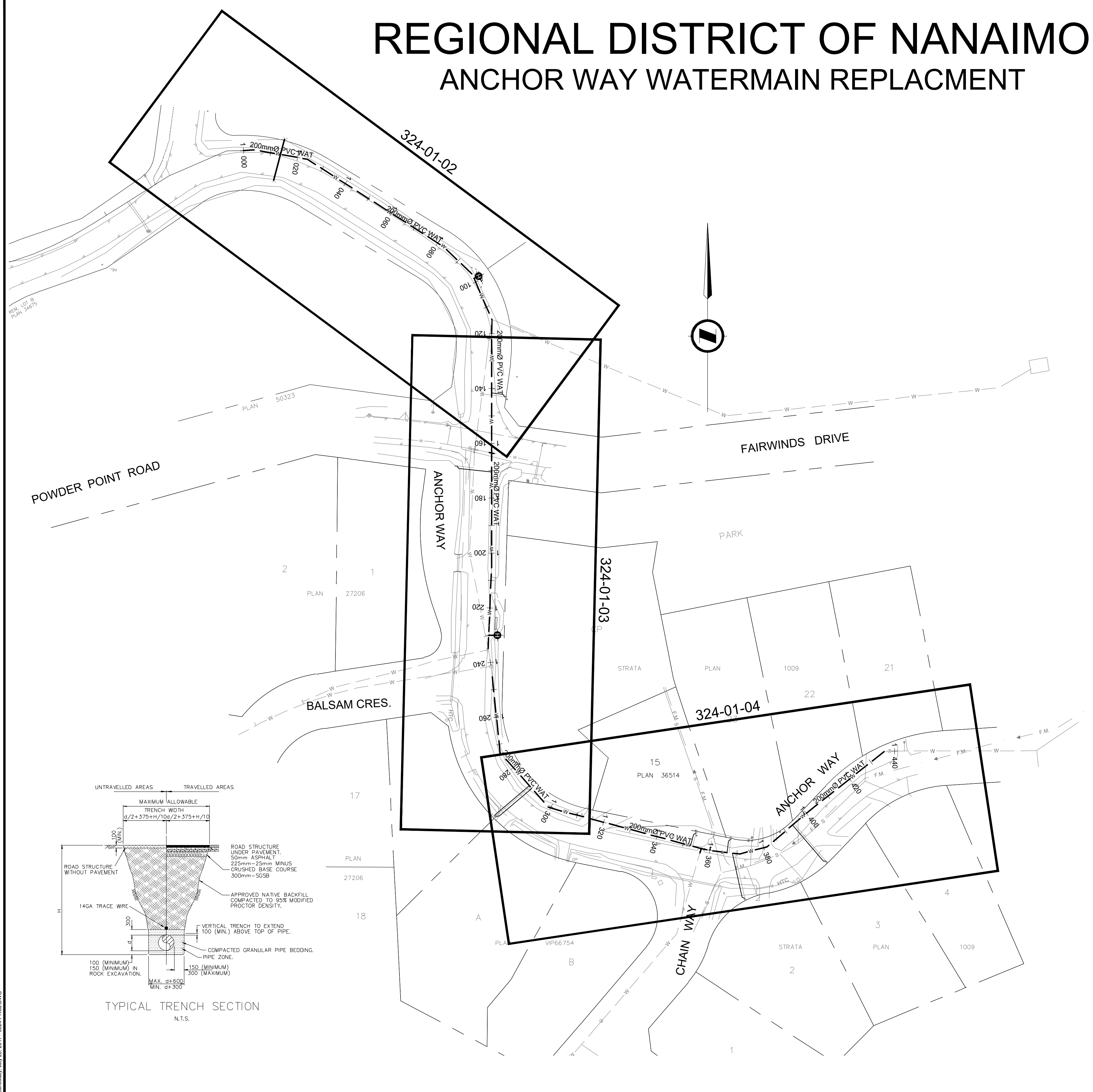
Dated at Nanaimo, British Columbia, this 27 day of July, 2017

A handwritten signature in black ink, appearing to be a stylized name.

On Behalf of the Minister

REGIONAL DISTRICT OF NANAIMO

ANCHOR WAY WATERMAIN REPLACEMENT



LOCATION PLAN
1:5000

GENERAL NOTES:

- MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE STANDARDS AND SPECIFICATIONS SHALL APPLY FOR MATERIALS, SPECIFICATIONS AND INSTALLATION OF ROADWORKS.
- RDN BYLAW 500 SCHEDULE 4C-1 AND MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (2009 EDITION) SHALL APPLY FOR MATERIALS, SPECIFICATIONS AND INSTALLATION OF WATERWORKS. WHERE A CONFLICT EXISTS BETWEEN THE TWO DOCUMENTS THE MORE STRINGENT STANDARD WILL GOVERN. ALL MANHOLE LIDS TO BE MARKED R.D.N. WATER.
- IF VERTICAL SEPARATION OF > 0.5m CAN NOT BE MAINTAINED BETWEEN THE WATERMAIN AND STORM DRAIN CROSSINGS ALL JOINTS WITHIN 3.0m OF THE CROSSING TO BE SECURED WITH PETROLATUM TAPE OR SHRINK-WRAP PER MINISTRY OF HEALTH SPECIFICATIONS.
- LOCATION OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND MUST BE CHECKED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS.
- APPROVED PIPE RESTRAINTS SHALL BE USED AT ALL FITTINGS, INCLUDING RESTRAINING A SUITABLE LENGTH OF PIPE ON EACH SIDE OF FITTING.
- PIPE RESTRAINTERS SHALL BE AS MANUFACTURED BY "UNI-FLANGE", "STAR" OR "EBAA" AND SHALL BE INSTALLED WITH SUPPLIED RODS ONLY. REDI-ROD IS NOT AN ACCEPTABLE SUBSTITUTE.
- 14ga TRACE WIRE SHALL BE PROVIDED ALONG THE ENTIRE LENGTH OF ALL WATERMANS. TRACER WIRE TO BE PLACED ABOVE THE BEDDING SAND. TRACER WIRE TO BE OUTSIDE OF RISER PIPE, AND TERMINATE IN VALVE BOXES WITH 2m MIN EXTRA LENGTH LEFT COILED AND ACCESSIBLE IN THE VALVE BOX.
- WATERMANS TO BE PVC PRESSURE PIPE CL235 DR18 AWWA C900, CSA B-137.3
- WATER SERVICE CONNECTIONS TO BE 200 PE SERIES 160 UNLESS NOTED OTHERWISE. CONNECTIONS TO EXISTING WATER METERS TO BE MADE BY RDN FORCES.
- MINIMUM COVER ON WATERMANS TO BE 1.2m.
- HYDRANTS SHALL BE AVK MODEL 2780 WITH FACTORY APPLIED YELLOW EPOXY FINISH.
- ELEVATIONS ARE IN METRES AND ARE CANADIAN GEODETIC VERTICAL DATUM 1928 (CGVD28) AND ARE DERIVED FROM DUAL FREQUENCY GNSS TIES TO THE NANOOSE ACTIVE CONTROL STATION GCM 816868.

EXISTING		PROPOSED	
MC or MMC	EDGE OF PAVEMENT	MC or MMC	EDGE OF PAVEMENT
	CURBS		CURBS
	EDGE OF GRAVEL		EDGE OF GRAVEL
	WATER MAIN		WATER MAIN
	STORM SEWER		STORM SEWER
	SANITARY SEWER		SANITARY SEWER
	CENTRELINE		CENTRELINE
	PROPERTY LINE		PROPERTY LINE
	FENCE LINE		FENCE LINE

EXISTING		PROPOSED		EXISTING		PROPOSED	
CB	CATCH BASIN	CB	CATCH BASIN	VALVE	VALVE	VALVE	VALVE
LB	LAWN BASIN	LB	LAWN BASIN	SL	SERVICE LOCATION	SL	SERVICE LOCATION
PP	POWER POLE	PP	POWER POLE				
TP	TELEPHONE POLE	TP	TELEPHONE POLE				
B	BENCHMARK	B	BENCHMARK				
FH	HYDRANT	FH	HYDRANT				
FH	HYDRANT W/ VALVE	FH	HYDRANT W/ VALVE				
CO	CLEANOUT	CO	CLEANOUT				
DMH	STORM MANHOLE	DMH	STORM MANHOLE				
SMH	SANITARY MANHOLE	SMH	SANITARY MANHOLE				
AV	AIR VALVE	AV	AIR VALVE				



All work done in connection with these specifications and drawings must comply with the Industrial Health and Safety Regulations of the Workers' Compensation Board.

NOTE: LOCATION OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND MUST BE CHECKED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS.

STANDARD ABBREVIATIONS

AC	ASBESTOS CEMENT	H	HUB
DI	DUCTILE IRON	F	FLANGE
ST	STEEL	IPT	IRON PIPE THREAD
PVC	POLYVINYL CHLORIDE	CSP	CORRUGATED STEEL PIPE
PE	POLYETHYLENE		

LEGAL DESCRIPTION:

BENCHMARK:
LOCATED AT NORTHWEST CORNER OF ANCHOR WAY AND POWDER POINT ROAD. ELEVATION= 105.967m, NOTED ON DRAWING.

REV	DATE	REVISIONS	BY
D	2017.07.26	ISSUE FOR TENDER	MTJ
C	2017.07.17	100% DESIGN	MTJ
B	2017.07.07	95% DESIGN	JAK
A	2017.06.06	50% DESIGN	JAK

SEAL: THIS PLAN AND DESIGN ARE, AND AT ALL TIMES REMAIN THE EXCLUSIVE PROPERTY OF TIMBERLAKE-JONES ENGINEERING LTD. AND CANNOT BE USED OR REPRODUCED WITHOUT WRITTEN CONSENT. THIS PLAN IS PREPARED FOR THE SOLE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH TIMBERLAKE-JONES ENGINEERING LTD. HAS NOT ENTERED INTO CONTRACT. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE SHALL BE INFORMED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THIS DRAWING.

DESIGN:	MTJ	SCALE:	1:750
DRAWN:	JAK	DATE:	1/12/2014
CHECKED:	MTJ	DATE PLOTTED:	7/26/2017
APPROVED:	MTJ	FILENAME:	0324-PROJ.DWG

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Client Name: **REGIONAL DISTRICT OF NANAIMO**

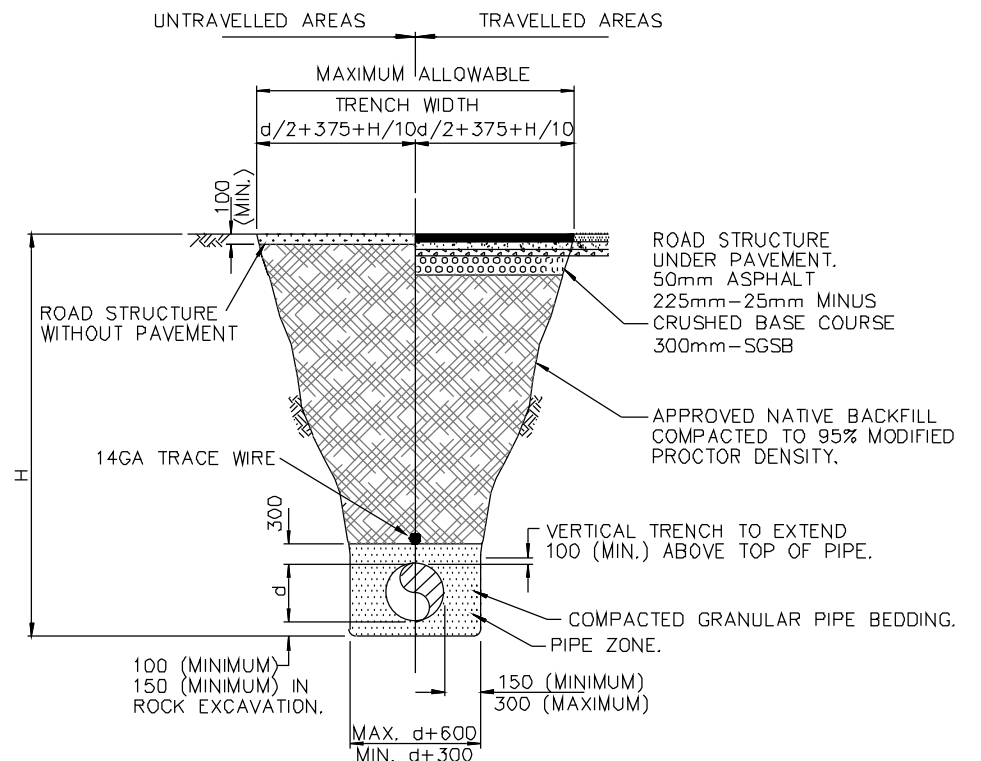
Project Name: **ANCHOR WAY WATERMAIN REPLACEMENT**

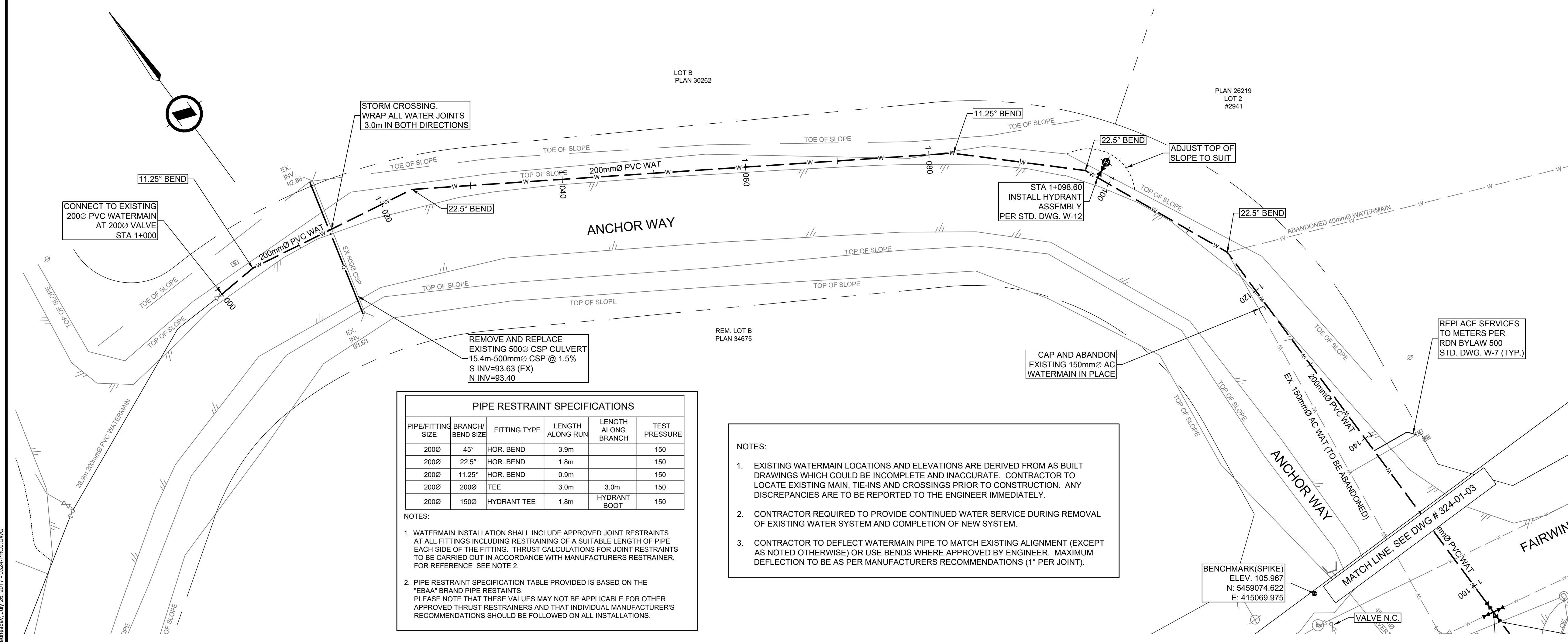
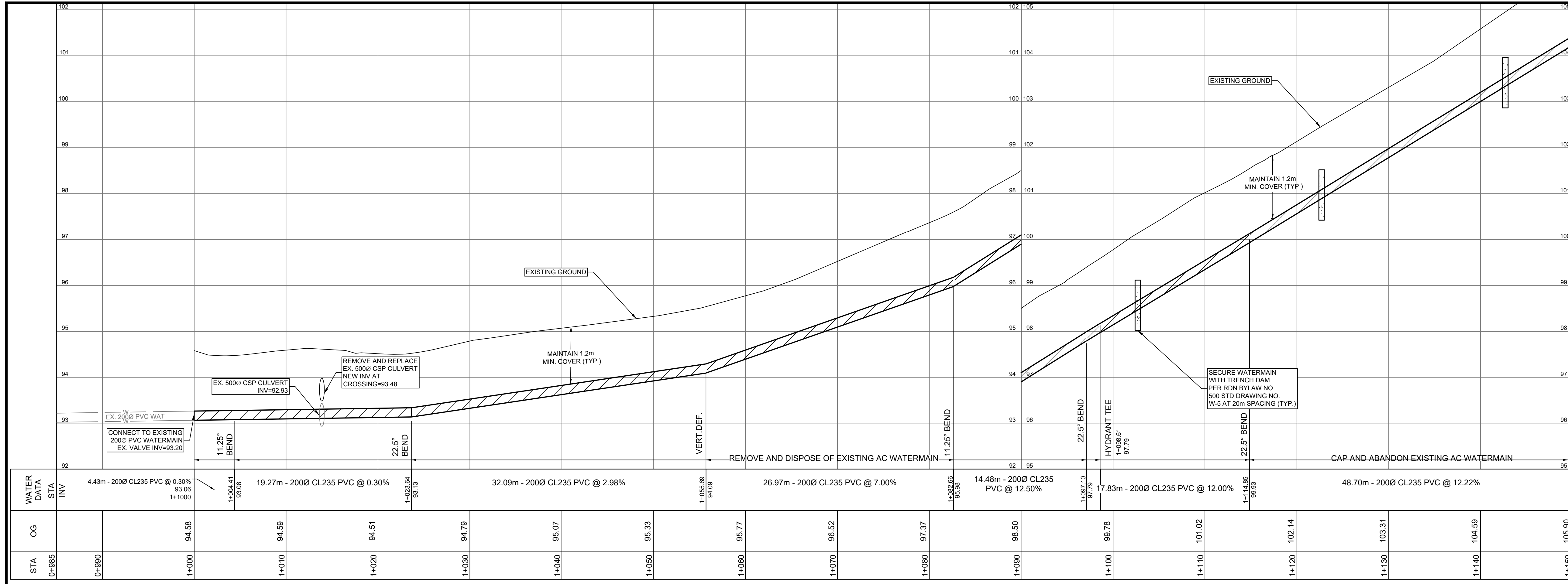
Drawing Title: **KEY PLAN**

Project Number:	Drawing Number:	Revision:
5500-22-NBP	324-01-01	D

DRAWING INDEX		
DWG NUMBER	REV	SHEET TITLE
0324-01-01	D	KEY PLAN
0324-01-02	D	ANCHOR WAY PLAN & PROFILE, STA 1+000-1+150
0324-01-03	D	ANCHOR WAY PLAN & PROFILE, STA 1+150-1+300
0324-01-04	D	ANCHOR WAY PLAN & PROFILE, STA 1+300-1+445

TYPICAL TRENCH SECTION
N.T.S.





PIPE RESTRAINT SPECIFICATIONS

PIPE/FITTING SIZE	BRANCH/BEND SIZE	FITTING TYPE	LENGTH ALONG RUN	LENGTH ALONG BRANCH	TEST PRESSURE
2000	45°	HOR. BEND	3.9m		150
2000	22.5°	HOR. BEND	1.8m		150
2000	11.25°	HOR. BEND	0.9m		150
2000	2000	TEE	3.0m	3.0m	150
2000	1500	HYDRANT TEE	1.8m	HYDRANT BOOT	150

NOTES:

1. WATERMAIN INSTALLATION SHALL INCLUDE APPROVED JOINT RESTRAINTS AT ALL FITTINGS INCLUDING RESTRAINING OF A SUITABLE LENGTH OF PIPE EACH SIDE OF THE FITTING. THRUST CALCULATIONS FOR JOINT RESTRAINTS TO BE CARRIED OUT IN ACCORDANCE WITH MANUFACTURERS RESTRAINER. FOR REFERENCE SEE NOTE 2.
2. PIPE RESTRAINT SPECIFICATION TABLE PROVIDED IS BASED ON THE "EBAA" BRAND PIPE RESTRAINTS. PLEASE NOTE THAT THESE VALUES MAY NOT BE APPLICABLE FOR OTHER APPROVED THRUST RESTRAINTS AND THAT INDIVIDUAL MANUFACTURER'S RECOMMENDATIONS SHOULD BE FOLLOWED ON ALL INSTALLATIONS.

- NOTES:**
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 2. CONTRACTOR REQUIRED TO PROVIDE CONTINUED WATER SERVICE DURING REMOVAL OF EXISTING WATER SYSTEM AND COMPLETION OF NEW SYSTEM.
 3. CONTRACTOR TO DEFLECT WATERMAIN PIPE TO MATCH EXISTING ALIGNMENT (EXCEPT AS NOTED OTHERWISE) OR USE BENDS WHERE APPROVED BY ENGINEER. MAXIMUM DEFLECTION TO BE AS PER MANUFACTURERS RECOMMENDATIONS (1" PER JOINT).

LEGEND

EXISTING	PROPOSED
—	—
—	—
—	—
—	—
—	—
—	—
—	—
—	—
—	—

EXISTING	PROPOSED	EXISTING	PROPOSED
CB	CATCH BASIN	CB	VALVE
LB	LAWN BASIN	LB	SERVICE LOCATION
PP	POWER POLE	PP	
TP	TELEPHONE POLE	TP	
B	BENCHMARK	B	
FH	HYDRANT	FH	
FHV	HYDRANT W/ VALVE	FHV	
CO	CLEANOUT	CO	
DMH	STORM MANHOLE	DMH A	
SMH	SANITARY MANHOLE	SMH 1	
AV	AIR VALVE	AV	



All work done in connection with these specifications and drawings must comply with the Industrial Health and Safety Regulations of the Workers' Compensation Board.

NOTE: LOCATION OF EXISTING SERVICES ARE SHOWN APPROXIMATELY AND MUST BE CHECKED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS.

STANDARD ABBREVIATIONS

AC	ASBESTOS CEMENT	H	HUB
DI	DUCTILE IRON	F	FLANGE
ST	STEEL	IP	IRON PIPE THREAD
PVC	POLYVINYL CHLORIDE	CSP	CORRUGATED STEEL PIPE
PE	POLYETHYLENE		

LEGAL DESCRIPTION:

BENCHMARK:
LOCATED AT NORTHWEST CORNER OF ANCHOR WAY AND POWDER POINT ROAD. ELEVATION= 105.967m, NOTED ON DRAWING.

REV	DATE	REVISIONS	BY
D	2017.07.26	ISSUE FOR TENDER	MTJ
C	2017.07.17	100% DESIGN	MTJ
B	2017.07.07	95% DESIGN	JAK
A	2017.06.06	50% DESIGN	JAK

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DRAWN:	JAK	DATE:	May 12, 2017
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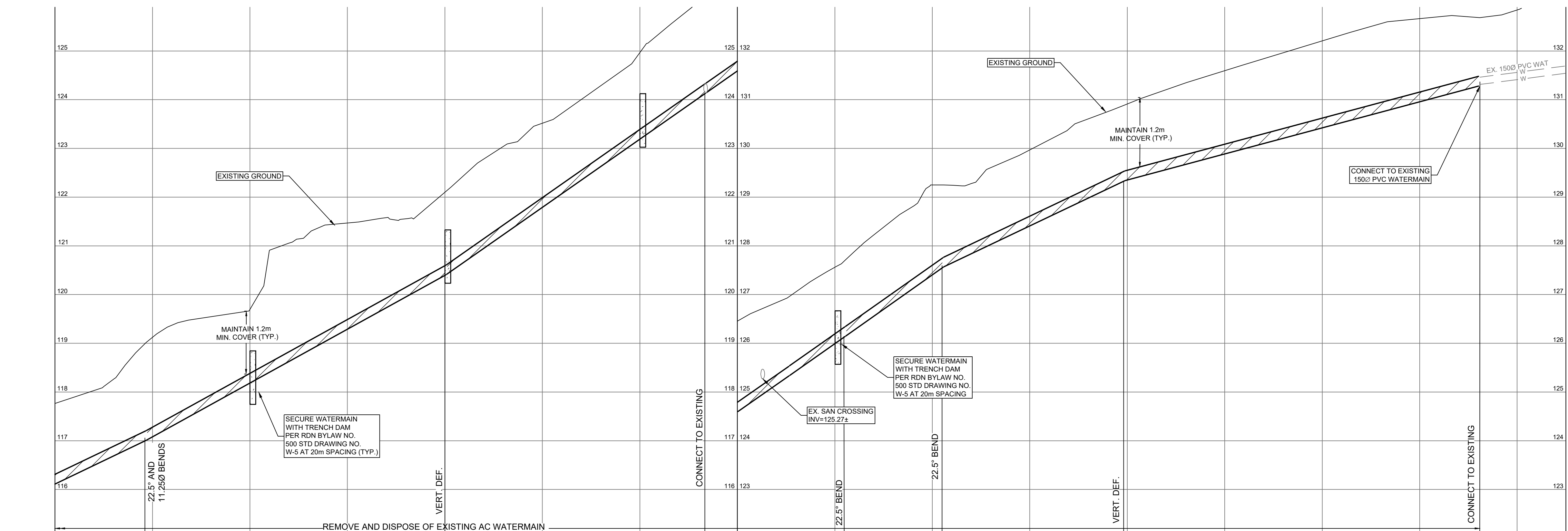
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Client Name: **REGIONAL DISTRICT OF NANAIMO**

Project Name: **ANCHOR WAY WATERMAIN REPLACEMENT**

Drawing Title: **ANCHOR WAY PLAN & PROFILE STA 1+000 - 1+150**

Project Number:	Drawing Number:	Revision:
5500-22-NBP	324-01-02	D



WATER DATA STA	OG STA	INVERT	PIPE	LENGTH	SLOPE	OG STA	INVERT	PIPE	LENGTH	SLOPE	OG STA	INVERT	PIPE	LENGTH	SLOPE	OG STA	INVERT	PIPE	LENGTH	SLOPE	OG STA	INVERT																																																																										
1+290	117.77	117.01	26.75m - 200Ø CL235 PVC @ 9.50%	26.75	9.50%	1+300	119.12	117.01	30.90m - 200Ø CL235 PVC @ 11.00%	11.00%	1+310	119.70	121.47	26.66m - 200Ø CL235 PVC @ 14.00%	14.00%	1+320	121.47	124.97	24.47m - 200Ø CL235 PVC @ 14.00%	14.00%	1+330	124.45	127.56	18.67m - 200Ø CL235 PVC @ 9.50%	9.50%	1+340	123.52	129.25	36.40m - 200Ø CL235 PVC @ 5.35%	5.35%	1+350	124.97	130.91				1+360	126.45	131.59				1+370	127.56	132.21				1+380	129.25	132.66				1+390	129.97	132.84				1+400	130.91	132.84				1+410	131.59	132.84				1+420	132.21	132.84				1+430	132.66	132.84				1+440	132.84	132.84				1+445	132.84	132.84			

LEGEND	
EXISTING	PROPOSED
MC or NMC	EDGE OF PAVEMENT
MC or NMC	CURBS
W	EDGE OF GRAVEL
W	WATER MAIN
W	STORM SEWER
W	SANITARY SEWER
W	CENTRELINE
W	PROPERTY LINE
W	FENCE LINE

EXISTING	PROPOSED	EXISTING	PROPOSED
CB	CATCH BASIN	CB	VALVE
LB	LAWN BASIN	LB	SERVICE LOCATION
PP	POWER POLE	PP	
TP	TELEPHONE POLE	TP	
BH	BENCHMARK	BH	
FH	HYDRANT	FH	
FHV	HYDRANT W/ VALVE	FHV	
CO	CLEANOUT	CO	
DMH	STORM MANHOLE	DMH A	
SMH	SANITARY MANHOLE	SMH 1	
AV	AIR VALVE	AV	



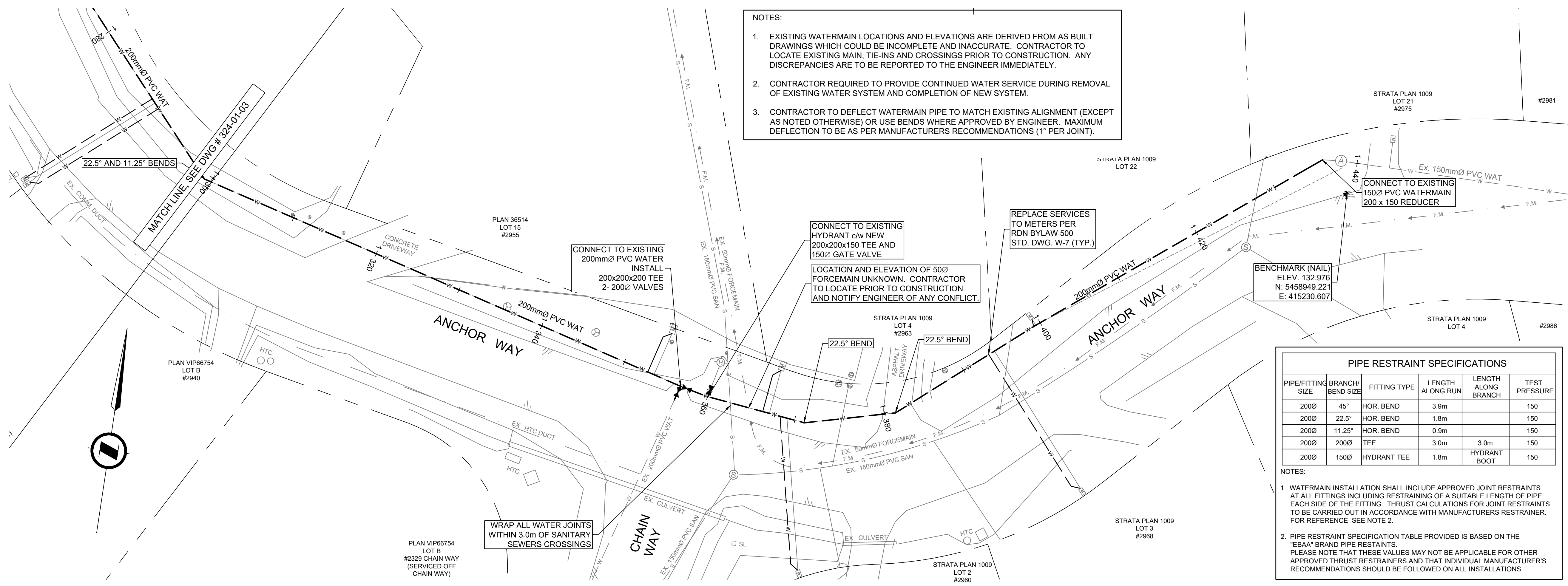
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BENCHMARK:
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DRAWN:	ATS	DATE:	May 12, 2017
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APPROVED:	MTJ	FILENAME:	0324-PROJ.DWG

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Client Name: **REGIONAL DISTRICT OF NANAIMO**

Project Name: **ANCHOR WAY WATERMAIN REPLACEMENT**

Drawing Title: **ANCHOR WAY PLAN & PROFILE STA 1+300 - 1+445**

Project Number:	5500-22-NBP	Drawing Number:	324-01-04	Revision:	D
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