



## TENDER 19-08

### HWY 19A PHASE III WATERMAIN & FORCEMAIN

#### ADDENDUM NO. 3

April 4th 2018

**This addendum forms part of the Tender Documents** and shall be read, interpreted, and coordinated with all other parts. The costs of all elements contained herein shall be included in the submission. The following revisions, changes, corrections, additions, and or deletions supersede the information contained in the original Documents to the extent referenced and shall become part thereof.

#### **Addendum Item 1 - Questions and Answers**

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**1. Proponent Question:**

Regarding Bid item 70: We do not find a 1200mm MH on the drawings. We do see a 1050mm MH, for which there is no bid item currently.

**Response:**

See updated Schedule Quantities and Pricing this Addendum and related details on the drawings.

**2. Proponent Question:**

Could you please indicate if at the end of each work day the contractor will be allowed to leave the excavation open and / or covered w/steel plates with traffic directed via delineators and signage?

**Response:**

It is expected that there will be periods where the trench excavation is left open between working days. The contractor will be responsible to ensure all open excavations are properly delineated and secured to ensure public safety. In addition Contractor's Traffic Management Plan will be required to fully describe all necessary detour routing for vehicles and pedestrian in full conformance with the contract requirements.

**3. Proponent Question:**

In the 600mm SDR35.5 option, do we simply cap the pipe, where it shows the 750mm Blind Flg in the Forcemain South Tie-in Detail? I assume that we should provide for pressure testing through this cap, prior to the tie-in taking place.

**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
ADDENDUM NO. 3**

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**Response:**

The design calls for a blind flange. Contractor are required to provide details for the testing procedures and equipment. Pressure testing against the valve is acceptable, but any procedures and equipment required to complete the pressure test need to be submitted for approval by the Contract Administrator.

**4. Proponent Question:**

With the 600mm SDR32.5 option, are the joints to be restrained? Both pipe-to-pipe, as well as pipe-to-fitting?

**Response:**

This item is to be added and included and will be treated as *Optional Work*. See item 3 of this Addendum and item 44a in the updated Schedule of Quantities and Prices attached to this Addendum.

**5. Proponent Question:**

Bid item 58, do we need a tee here not this saddle? 600H x 600H x 150F

**Response:**

Either a Tee or a service saddle can be installed here.

**6. Proponent Question:**

Bid item 60, HDPE tee should be BW x F x F?

**Response:**

BW x BW x F is correct. A 750 spool and flange will be required at after the tee to make up the required length.

**7. Proponent Question:**

Bid item 61, DI tee should be 600Hx600Fx450F?

**Response:**

Correct. Item 61 is incorrectly shown as a 600x750x450

**8. Proponent Question:**

With reference to pay Item #34 is this to be priced for the more expensive east side services of which there are only 7 connections or the partial west side services at a lesser cost?

**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
ADDENDUM NO. 3**

---

**Response:**

The Contractor is to provide a single price for 19mm Service Connection regardless of the configuration.

**9. Proponent Question:**

Please confirm the stated quantity for Item #42 of 13 LM. The stated quantity would be for measurement through the 200mm piping and low point drain assembly. Is this how Item #42 will be measured and paid?

**Response:**

This quantity includes piping from the 750x750x450 Tee through to 450x450x200 Tee through to the point of connection with the existing 450mm HDPE pipe. It does not include the length through fittings which are paid separately. **QUANTITY has been reduced to 8m.**

**10. Proponent Question:**

The 750 x 150 saddle referenced in pay item 57 could be either fusion or mechanical. Which style would you like priced?

**Response:**

Fused.

**11. Proponent Question:**

Assuming that pay items #60 and #61 are the tees for the 2 low point drain options at 101+702, they are incorrectly stated as BWxBWxFL and HxHxF. Should they not be FLxBWxFL for Item #60 and FxHxF for Item #61. Also Detail 5 profile on Drawing 6 differs from the plan of Detail 5.

**Response:**

The designation for #60 and #61 are correct. A correction to Item 61 is required. Change 600x750x450 to 600x600x450.

**12. Proponent Question:**

Items 62 and 63 for the air valve options states 2 units for each for a total of 4 air valve assemblies. Is this correct since the original tender form stated 2 in total?

**Response:**

The correct quantity for Item 62 and 63 is 2. Only 2 will be built based on the preference of the Owner to choose either Option 1 or 2, but not both.

**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
ADDENDUM NO. 3**

---

**13. Proponent Question:**

We note that for the Phase II tender of the Hwy 19A Forcemain upgrades (Tender 19-07) there is a payment item for the setup and operation of a well point dewatering system if required. Is it possible to create a payment item or an Owner's provisional sum if well point dewatering is required for this project?

**Response:**

Given the anticipated soil conditions, this is not required for this project. Should excessive groundwater be encountered, this will be dealt with as a *Concealed or Unknown Condition*.

**14. Proponent Question:**

If edge grinding of asphalt prior to asphalt reinstatement is required, who is to carry out this task, and if it is under this contract how will it be paid?

**Response:**

Asphalt reinstatement from the southern limit to approximately STN 101+320 is to be as per the Temporary Asphalt Restoration Detail on Sheet C-7 as this will be replaced with the future work in 2020. Asphalt reinstatement from STN 101+320 to the northern limit is to follow the Permanent Restoration in MMCD Standard Detail G5 and new item No.14a in the updated Schedule of Quantities and Prices issued as part of this Addendum and is the responsibility of the Contractor to complete.

**15. Proponent Question:**

Are there any areas of City owned property within the boundaries of the project that could be utilized as laydowns for materials and equipment?

**Response:**

The Contractor will be able to use the City owned property on the North West corner of the Rockland Road and Highway 19A Intersection as a laydown area for this project.

**16. Proponent Question:**

As per the City requirement to have all questions submitted no later than April 3, 2019, we would also request that no Addenda or changes to the tender be issued within 1 week of tender closing.

**Response:**

See response to question no. 17 below.

**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
ADDENDUM NO. 3**

---

**17. Proponent Question:**

Would you reconsider the cut-off dates for questions on both these projects? Your current date of April 3rd, is 7 days prior to the Hwy 19A closing date and 9 days prior to the closing date on Waterfront PH2. This is well outside the industry typical deadline of 48 hrs. prior to closing.

**Response:**

Yes an extension to this cut-off date will be granted. All questions regarding this tender must be submitted to the City in writing at [purchasing@campbellriver.ca](mailto:purchasing@campbellriver.ca) **no later than 3:00pm (local time) on Monday April 8<sup>th</sup>, 2019**. Any questions received after this date and time will not be accepted. All efforts will be made to post final Addendum by end of day April 8, 2019.

**Addendum Item 2 – Updated Tender Documents**

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The tender documents have been updated as follows and are attached to this addendum:

The Schedule of Quantities and Prices have been revised, replace Appendix 1A (issued 28 Mar19) with **Appendix 1B (issued 04Apr19)**, Updated items are highlighted in green.

**Addendum Item 3 – Supplementary Specification 33 34 01 SEWAGE FORCEMAINS**

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**1.8 Measurement and Payment**

.2 **(Delete clause 1.8.2 and replace with the following: )**  
Payment for sanitary sewage forcemains includes saw cut pavement, trench excavation, disposal of surplus material, supply and installation of all pipe, related materials, gaskets, bedding, imported or native backfill as shown on the Contract Drawings, cleaning, pressure and leakage testing, flushing, all surface restoration as specified under Section 31 23 01 – Excavating, Trenching and Backfilling – 3.6, except permanent pavement restoration, and all other work and materials necessary to complete the restoration as shown on the Contract Drawings and as specified under this Section.

**1.8 Measurement and Payment**

.13 **(Add the following clause 1.8.13: )**  
Payment for joint and pipe restraints shall be *Optional Work* and will be made on a per unit basis for all materials, work and incidentals to install joint restraints between pipes and fittings described by the following specification:

For all sewage forcemain pipe joints and fittings which are to be restrained are to use restraint devices for PVC pipe, which shall incorporate a series of serrations on the inside diameter to provide positive restraint, exact fit, and full contact and support of the pipe wall. Restraint devices shall be manufactured of high strength ductile iron, ASTM A536, Grade 65-45-12 or ASTM A36 structural steel. Bolts to be SAE J429 Grade 5, and connecting hardware shall be of high strength low alloy material in accordance with ANSI / AWWA C111/A21.11.

All restraint devices for PVC pipe shall have a working pressure rating equivalent to the full rated pressure of the PVC pipe on which they are installed, with a minimum 2:1 safety factor in any nominal pipe size. Restraint devices for Mechanical Joint or Push-on fittings shall be manufactured by a facility independently certified to ISO 9001 quality standard and shall be Uni-Flange® 1300 or approved equal

**End of Addendum**

**Acknowledgement of this Addendum in your Tender submission is required.**

Clinton J. Crook, SCMP, CPSM  
Purchasing & Risk Management Officer

**Appendix 1B**

(issued 04Apr19)

**SCHEDULE OF QUANTITIES AND PRICES – GST EXCLUDED**

(See paragraph 5.3.1 of the Instructions to Tender – Part II)

(All prices and Quotations including the Contract Price shall include all Taxes, but shall not include GST, GST shall be shown separately)

Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b>01 - GENERAL REQUIREMENTS</b>						
<b><u>Supplementary Specifications 3.1</u></b>						
1	1.1.4	Mobilization & Demobilization, shall not exceed 10% of the Total Price, excluding GST	LS	1		
<b><u>01 53 01 Temporary Facilities</u></b>						
2	1.9.1	Sanitary Facilities, Site Storage, Loading and Hoardings	LS	1		
<b><u>01 55 00 Traffic Control, Vehicle Access and Parking</u></b>						
3	1.5.1	Traffic Control, Vehicle Access and Parking	LS	1		
<b><u>01 57 01 Environmental Protection</u></b>						
4	1.6	Temporary Erosion and Sediment Control	LS	1		
<b><u>01 62 00 Removals</u></b>						
5	1.2.1	Seawalk Asphalt Removal	SM	1745		
6	1.2.2	450mm Diam. HDPE Forcemain Removal	LM	190		

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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b>31 - EARTHWORKS</b>						
<b><u>31 22 16 Reshaping Granular Roadbeds</u></b>						
7	1.4.1	Asphalt Restoration Preparation (3 Driveways)	SM	90		
8	1.4.5	Temporary Gravel Running Surface	SM	2235		
<b><u>31 23 01 Excavating, Trenching and Backfilling</u></b>						
9	1.10.3	Over-Excavation, including Backfilling ( <i>Optional Work</i> )	CM	100		
10	1.10.9	Pre-Locates of Key Utilities prior to Start of Construction	EA	5		
11	1.10.9	Pre-Locate all Existing Water Services - prior to start of watermain construction	EA	34		
<b><u>31 23 17 Rock Removal</u></b>						
12	1.6.4/5	Boulders and Rock Fragments - Blasting not Permitted ( <i>Optional Work</i> )	CM	50		
<b><u>31 23 23 Control Density Fill</u></b>						
13	1.4.1	1100m of 450mm Diameter Pipe	CM	177		
<b>32 - ROADS AND SITE IMPROVEMENTS</b>						
<b><u>32 01 16.7 Cold Milling</u></b>						
14a	1.5.1	Milling 200mm wide for permanent pavement restoration, 50mm depth	LM	323.5		
<b><u>32 11 16.1 Granular Subbase</u></b>						
14	1.4.2	Granular Subbase ( <i>Optional Work</i> )	T	200		
<b><u>32 11 23 Granular Base</u></b>						
15	1.4.5	Granular Base ( <i>Optional Work</i> )	SM	150		
<b><u>32 12 16 Hot-Mix Asphalt Concrete Paving</u></b>						
16	1.5.9	Coordination of Owner's Asphalt Contractor	LS	1		

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**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
FORM OF TENDER**

Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b>33 - UTILITIES</b>						
<b><u>33 01 30.1 CCTV Inspection of Pipelines</u></b>						
17	1.6.2	CCTV Pipeline Inspection - Post Installation	LM	55		
<b><u>33 11 01 Waterworks - Imported Backfill</u></b>						
18	1.8.2	Pipe - 200mm Diam. C900 DR18, All Depths	LM	70.85		
19	1.8.2	Pipe - 250mm Diam. C900 DR18, All Depths	LM	639.5		
<b><u>33 11 01 Waterworks - Imported Backfill</u></b>						
20	1.8.3	Bend - 45° - 200mm Diam. HxH	EA	2		
21		Reducer - 200x250mm Diam. HXF	EA	1		
22		Gate Valve - 150mm Diam. FxH	EA	8		
23		Gate Valve - 200mm Diam. FxH	EA	4		
24		Gate Valve - 250mm Diam. FxH	EA	6		
25		Tee - 200x200x200mm Diam. FxFxH	EA	1		
26		Tee - 250x250x150mm Diam. HxFxF	EA	3		
27		Tee - 250x250x150mm Diam. HxHxF	EA	5		
28		Tee - 250x250x200mm Diam. HxFxF	EA	1		
29		Tee - 250x250x200mm Diam. FxFxF	EA	1		
30		Tee - 250x250x250mm Diam. FxHxF	EA	1		

Tenderer's Initial    Owner's Initial

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**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
FORM OF TENDER**

Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b><u>33 11 01 Waterworks - Imported Backfill</u></b>						
31	1.8.3	Cap - 150mm Diam. (Complete with 0.5m of 150mm Diam PVC DR18 Spigot)	EA	8		
32		Cap - 200mm Diam. (Complete with 0.5m of 200mm Diam PVC DR18 Spigot)	EA	1		
33		Cap - 250mm Diam. (Complete with 0.5m of 200mm Diam PVC DR18 Spigot)	EA	2		
34	1.8.4	Service Connection - 19mm Diam.	EA	22		
35		Service Connection - 50mm Diam. Sta 100+785 per Detail 2 Sheet C-7	EA	2		
36	1.8.9	Localised concrete encasement, support, anchor or thrust blocks	CM	9.5		
37	1.8.13	Tie-In - 200mm Diam. - South End	EA	1		
38		Tie-In 200mm - North End (Valves and Tee Not Included)	EA	1		
<b><u>33 30 01 Sanitary Sewers - Imported Backfill</u></b>						
39	1.6.2	Pipe - 250mm Diam. PVC DR35, All Depths	LM	22		
40	1.6.7	Tie-In 250mm Diam. PVC to Existing Sanitary Sewer System	EA	2		
<b><u>33 34 01 Sewage Force mains - Imported Backfill</u></b>						
41	1.8.2	Pipe - 150mm Diam. HDPE DR21, All Depths	LM	12		
42		Pipe - 450mm Diam. HDPE DR21, All Depths	LM	8		
43		<b>Option 1</b> - Pipe - 750mm Diam. HDPE DR21, All Depths	LM	1300		
44		<b>Option 2</b> - Pipe - 600mm Diam. PVC SDR32.5, PC125, All Depths	LM	1300		
44a	1.8.13	<b>Option 2 – 600mm Diam. PVC Joint Restraint – (Optional Work)</b>	EA	235		
45	1.8.3	Bends – 22.5° - 450mm Diameter HDPE DR21 F x BW	EA	1		

Tenderer's Initial    Owner's Initial

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**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
FORM OF TENDER**

	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
		<b><u>33 34 01 Sewage Forcemains - Imported Backfill</u></b>				
46	1.8.3	Bends - 45° - 450mm Diameter HDPE DR21 BWxBW	EA	1		
47		Bends - 45° - 450mm Diameter HDPE DR21 BWxF	EA	1		
48		<b>Option 1</b> - Bends - 45° - 750mm Diameter HDPE DR21 BWxBW	EA	4		
49		<b>Option 2</b> - Bends - 45° - 600mm Diameter Epoxy Coated DI	EA	4		
50		Gate Valve - 150mm Diameter FxF	EA	1		
51		Gate Valve - 450mm Diameter FxF	EA	1		
52		<b>Option 1</b> - Gate Valve - 750mm Diameter FxF	EA	1		
53		<b>Option 2</b> - Gate Valve - 600mm Diameter FxF	EA	1		
54		Blind Flange - 150mm Diameter	EA	1		
55		<b>Option 1</b> - Blind Flange - 750mm Diameter	EA	2		
56		<b>Option 2</b> - Blind Flange - 600mm Diameter	EA	2		
57		<b>Option 1</b> - Saddle - 750mmx150mm Diameter Flanged	EA	1		
58		<b>Option 2</b> - Saddle - 600mmx150mm Diameter Flanged	EA	1		
59		Tees - 450x450x450mm Diameter BWxFxF	EA	1		
60		<b>Option 1</b> - Tees - 750x750x450mm Diameter BWxBWxF	EA	1		
61		<b>Option 2</b> - Tees - 600x600x450mm Diameter HxFxF Epoxy Coated DI	EA	1		
62		1.8.5	<b>Option 1</b> - Air Valve Assembly per Detail 3, Sheet C-6	EA	2	

Tenderer's Initial    Owner's Initial

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**CITY OF CAMPBELL RIVER  
TENDER 19-08  
HWY 19A PHASE III WATERMAIN & FORCEMAIN  
FORM OF TENDER**

Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b><u>33 34 01 Sewage Forcemains - Imported Backfill</u></b>						
63	1.8.5	<b>Option 2</b> Air Valve Assembly per Detail 3, Sheet C-6, substitute a 600x600x600mm Tee HxHxF Epoxy Coated DI, and associated 600mm SS Special Blind Flange	EA	2		
64		<b>Option 1</b> - Low Point Drain #1 at Sta. 101+055 including 750x750x750mm BWxBWxF HDPE Tee, Piping, Specials, Valves & Manhole per Detail 4, Sht. C-6	EA	1		
65		<b>Option 2</b> - Low Point Drain #1 at Sta. 101+055 including 600x600x60mm HxHxF Epoxy Coated DI Tee, Piping, Specials, Valves & Manhole per Detail 4, Sht. C-6	EA	1		
66		Low Point Drain #2 at Sta. 101+702 including Reducer; Piping, Valves & Manhole per Detail 5, Sht. C-6	EA	1		
67	1.8.10	Forcemain Tie-in - North End	LS	1		
68		<b>Option 1</b> - Forcemain Tie-in - South End – per Detail 1, Sheet C-6	LS	1		
69		<b>Option 2</b> - Forcemain Tie-in - South End – per Detail 1, Sheet C-6, substitute 600mm Epoxy Coated DI, Flanged Hub adapter for HDPE reducer shown	LS	1		
<b><u>33 40 01 Storm Sewers - Imported Backfill</u></b>						
70	1.6.2	Pipe - 300mm Diam. PVC DR35	LM	8		
71		Pipe - 750mm Diam. PVC DR35 Ribbed	LM	25		
72	1.6.9	Tie-In 750mm Diam. PVC to Existing Stormwater Manholes	EA	2		
<b><u>33 44 01 Manholes and Catchbasins</u></b>						
73	1.5.1.1	Manhole Base, Lid, Slab, Cover and Frame - 1050mm Diam.	EA	1		
74	1.5.1.1	Manhole Base, Lid, Slab, Cover and Frame - 1350mm Diam.	EA	2		
75	1.5.1.2	Manhole Riser Section - 1050mm Diam.	LM	0.3		
76	1.5.1.2	Manhole Riser Section - 1350mm Diam.	LM	3.5		
77	1.5.1.4	Rebench Existing Manhole - 1050mm Diameter	EA	1		

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**SUMMARY**

The Tenderer shall determine the lower cumulative total for either **Option 1** or **Option 2** and include this lower cumulative total in calculating the total tender value.

<b>Sub-Total</b>	\$
GST (5%):	\$
<b>TOTAL:</b>	\$

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