



## TENDER 18-13

### WATERFRONT SEWER UPGRADES PHASE I

#### ADDENDUM NO. 3

May 18<sup>th</sup>, 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:**

Reflecting on the answers in addendum #2 concerning the asphalt cutting at 50mm. Are there instructions as to what procedure will be expected?

**Response:**

Construction sequencing and methodology to be developed by the contractor.

2. **Proponent Question:**

The existing lock blocks are in extremely poor condition with several of them likely being rejected. Can we assume that if the existing lock blocks do not meet spec, that lock blocks purchased and installed to replace them will be paid for at the tendered unit rate?

**Response:**

Yes.

3. **Proponent Question:**

The handrail to be reused is cast in place into the existing wall. Can this handrail be cut and baseplates welded onto the posts, or do the new lock blocks need to be cored to accept the handrail.

**Response:**

Yes, base plates on the lock block wall will be acceptable. See the attached detail.

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**4. Proponent Question:**

Please provide the following details for the concrete wall removal at sta. 0+100. Wall thickness at the base of the wall. Wall depth below grade. If a footing exists and what are the width and depth of the footing.

**Response:**

The details of the existing wall are not known. Allow for bury of one block height on a crushed gravel levelling pad 0.45 m thick x 1.00 m wide with a 100 mm diam. perf. Rigid PVC drain behind the levelling pad.

**5. Proponent Question:**

The cast in place wall at station 0+100 is transitioning from a vertical wall cut to a battered interlocking block wall joining each other at approximately 11 degrees and may require a cast in place section to transition from one wall to the other. Please provide a connection detail for the transition from the sawcut cast in place wall to the interlocking block wall.

**Response:**

See attached detail. Concrete to be C1 Class.

**6. Proponent Question:**

The interlocking block wall has a cast in place section at 0+111.599. How will this be paid for?

**Response:**

The cast in place section is incidental to the restoration of the retaining wall.

**7. Proponent Question:**

Station 2+465. New Sanitary main runs directly under an existing manhole. How will the removal of this manhole be paid for?

**Response:**

Payment for removal of manhole will be paid under Item 7 on the Schedule of Quantities and Prices. Add the following clause to SS 01 62 00 – Removals. *Add clause 1.1.6 to read "Removal of existing manhole at Sta. 2+465 to include removal of existing manhole and backfill with Pit Run Gravel and compact to 95% Modified Proctor.*

**8. Proponent Question:**

At approx. station 2+458 there appears to be a 250 concrete sewer pipe conflicting with the new main. This pipe will not be abandoned until after the new pipe is commissioned. How will this pipe be dealt with?

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**Response:**

Contractor to develop methodology to maintain operation of existing system during construction.

**9. Proponent Question:**

Can the owner provide a laydown area in the Marine Heritage Centre parking lot or any other location, to store pipe, manholes and other construction materials?

**Response:**

The MHC parking lot will be utilized by the busy tourist traffic so a section cannot be set aside as a laydown area.

**10. Proponent Question:**

Supplemental spec 31 23 23 1.4 Controlled density fill. Payment is by cubic meters based on pipe measurements. Schedule of quantities indicates lineal meters. Which is correct? Preference would be to use cubic meters to ensure payment for CDF migrating up the service pipes.

**Response:**

Delete Supplemental Specification 31 23 23 and replace with Supplemental Specification 31 23 23 (issued May 18<sup>th</sup>, 2018) as attached.

The Schedule of Quantities and Prices is to be revised, replace Appendix 1A with **Appendix 1B (issued 18May18)**, as attached. Updates are shown in bold and highlighted yellow.

**11. Proponent Question:**

The Schedule of Quantities notes 1800mm dia manhole(s). Would this be SMH22, which is listed as 1500mm dia on the drawings (see sheet 6)?

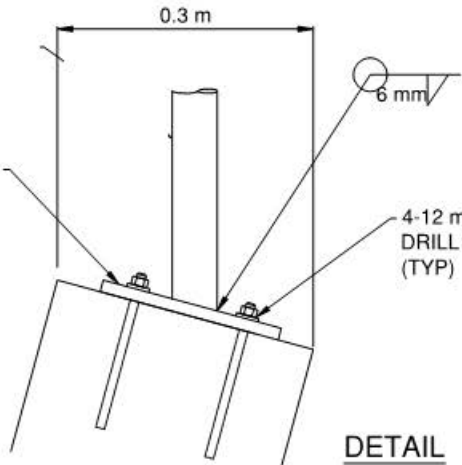
**Response:**

Clarification: SMH 22 should be 1800mm diameter.

**End of Addendum**

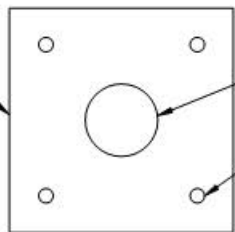
**Acknowledgement of this Addendum in your Tender submission is required.**

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



DETAIL

185 mm X 185 mm X 10 mm  
BASE PLATE

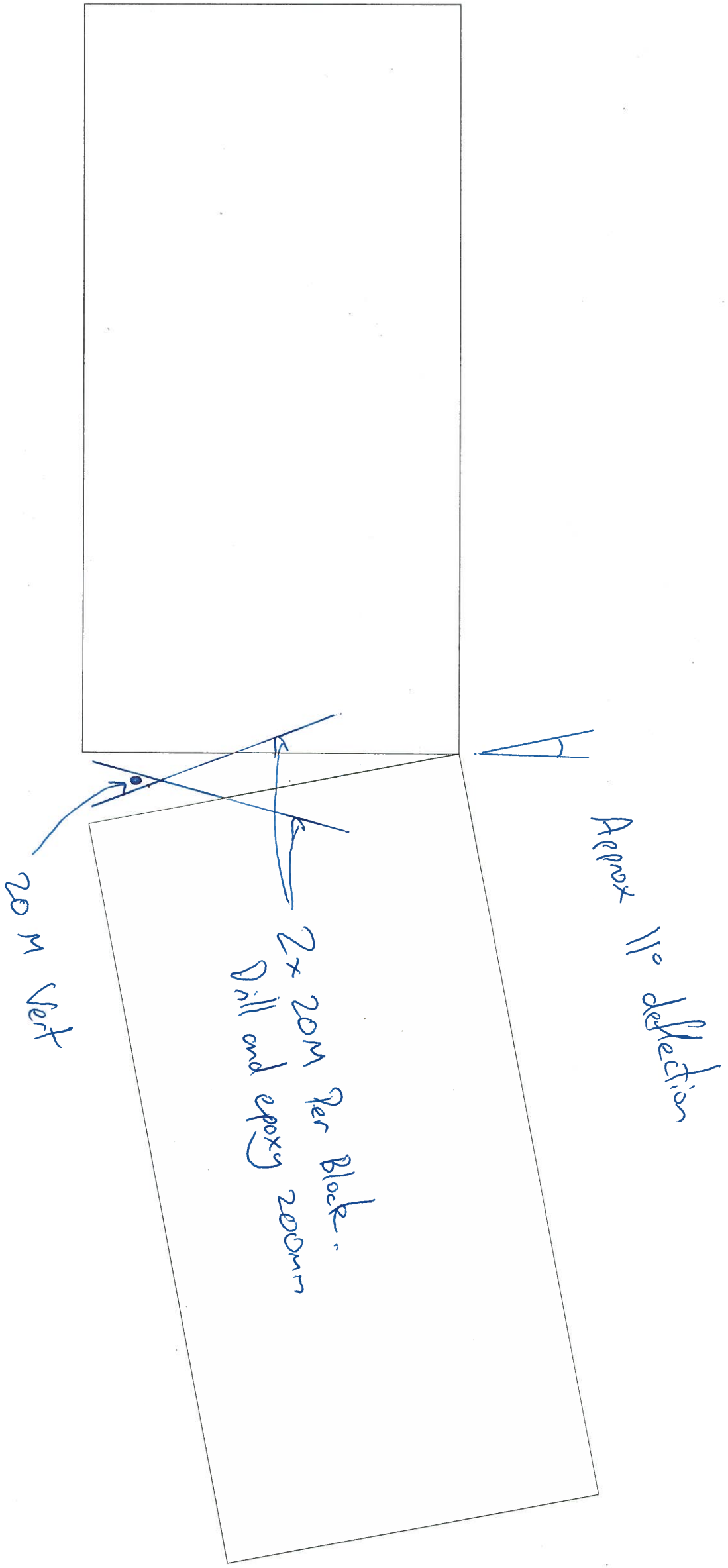


WELD POST TO BASEPLATE AS  
PER DETAIL ABOVE

13 mm Ø HOLES  
(TYP)

PLAN

# Cast - In - Place Detail



**1.4 Measurement and Payment**

**.1 (*Delete and replace as follows*)**

Payment for Controlled Density Fill (Pipe) includes preparation of the pipe and service connections, formwork, temporary piping, supply and placement of the Controlled Density Fill, protection during curing and all other work and materials necessary to complete the installation as shown on the Contract Drawings and specified under this Section.

Payment will be made by lineal pipe metre of main sanitary sewer pipe based on the size of pipe to be filled, as shown on the Contract Drawings.

**2.2 Mixes**

**.1 (*Delete and replace as follows*)**

Proportion Controlled Density Fill to meet the following design criteria:

- .1 Compressive strength: 0.5MPa at 28 days
- .2 Cement content: 25kg per m<sup>3</sup>
- .3 Slump: 150-200mm
- .4 Air entrainment: 4-6%

**3.1 General**

**.1 (*Delete and replace as follows*)**

Completely fill pipe with Controlled Density Fill. Ensure no voids are left inside pipe.

**END OF SECTION 31 23 23**

**Appendix 1B** (issued 18May18)

**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 ITEMS</b>						
<b><u>01 01 01 Mobilization and Demobilization</u></b>						
1	1.1.1-1.1.5	Mobilization & Demobilization (maximum 10% of Tender Price)	LS	1		
<b><u>01 33 01 Project Record Documents</u></b>						
2	1.8.1	Project record documents	LS	1		
<b><u>01 52 01 Temporary Structures</u></b>						
3	1.6.1	Temporary structures	LS	1		
<b><u>01 53 01 Temporary Facilities</u></b>						
4	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>						
5	1.5.1	Traffic control, vehicle access and parking	LS	1		
6	1.5.2	Dynamic message signs; optional	wk	26		
<b><u>01 62 00 Removals</u></b>						
7	7.1.5	Removals	LS	1		
<b><u>01 57 01 Environmental Protection</u></b>						
8	1.6.1	Temporary erosion and sediment control	LS	1		
<b>03 - CONCRETE</b>						
<b><u>03 30 20 Concrete Walks, Curbs and Gutters</u></b>						
9	1.4.4	Hand formed curb and gutter - barrier curb to Std. Drg. C4	m	216		
10	1.4.5	Sidewalk including ramps, 100 mm thick, c/w granular base; Std. Drg. C2	m <sup>2</sup>	357		
11	1.4.6	Concrete driveway panels; 125 mm thick [8 driveways]	m <sup>2</sup>	290		
<b>Sub-Total Page 9:</b>						

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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
12	1.4.11	Remove and replace brick pavers	m <sup>2</sup>	242		
		<b>03 30 55 Precast Interlocking Blocks</b>				
13	1.3.1/2	Interlocking Blocks	m <sup>2</sup>	70		
		<b>31 - EARTHWORKS</b>				
		<b>31 22 16 Reshaping Granular Roadbeds</b>				
14	1.4.1	Asphalt restoration preparation [15 driveways]	m <sup>2</sup>	135		
15	1.4.5	Temporary gravel running surface	LS	1		
		<b>31 22 16.1 Reshaping Existing Subgrade</b>				
16	1.4.2	Remove unsuitable subgrade; optional work	m <sup>3</sup>	150		
		<b>31 23 01 Excavating, Trenching and Backfilling</b>				
17	1.10.3	Over-excavation including backfilling; optional	m <sup>3</sup>	150		
18	1.10.9	Pre-locates of key utilities prior to start of construction	ea	3		
19	1.10.9	Pre-locate all the existing sanitary services	ea	71		
		<b>31 23 17 Rock Removal</b>				
20	1.6.4/5	Boulders and rock fragments - blasting not permitted; optional	m <sup>3</sup>	50		
		<b>31 23 23 Controlled Density Fill</b>				
21	1.4.1	CDF (Pipe 200 mm diameter with services)	m	785		
22	1.4.4	CDF (Pipe 250 mm diameter with services)	m	565		
		<b>32 - ROADS AND SITE IMPROVEMENTS</b>				
		<b>32 01 16 Cold Milling</b>				
23	1.5.1	Milling 200mm wide for permanent pavement restoration, 50mm depth	m	3438		
		<b>32 11 16.1 Granular Subbase</b>				
24	1.4.2	Granular subbase; optional work	T	375		
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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b><u>32 11 23 Granular Base</u></b>						
25	1.4.1	Granular base; optional work	T	87		
26	1.4.5	Gravel driveway restoration 19 mm gravel; 100 mm thk [15 driveways]	m <sup>2</sup>	192		
27	1.4.5	Gravel driveway restoration Blue Chip; 100 mm thk; optional	m <sup>2</sup>	36		
<b><u>32 12 16 Hot-Mix Asphalt Concrete Paving</u></b>						
28	1.5.7	Saw cut asphaltic or concrete pavements in preparation for new asphalt concrete; 50 mm depth; mainline	m	2818		
29	1.5.7	Saw cut asphaltic or concrete pavements in preparation for new asphalt concrete; 50 mm depth; service connections	m	620		
30	1.5.9	Coordination of Owner's Asphalt Contractor	LS	1		
<b><u>32 17 23 Painted Pavement Markings</u></b>						
31	1.5.2	Permanent painted pavement marking	LS	1		
<b><u>32 93 01 Planting of Trees, Shrubs and Ground Covers</u></b>						
32	1.9.5	Landscape restoration	ea	21		
33	1.9.5	Landscape restoration; optional [342 & 352]	ea	2		
<b>33 - UTILITIES</b>						
<b><u>33 01 30.1 CCTV Inspection of Pipelines</u></b>						
34	1.6.2	CCTV pipeline inspection	m	1572		
<b><u>33 11 01 Waterworks - Imported Backfill</u></b>						
35	1.8.1/2	Pipe - 25 mm diam. PE PC150; all depths	m	141		
36	1.8.1/2	Pipe - 300 mm diam. C900 DR18; all depths	m	6		
37	1.8.4	Service connection - 19 mm diam., all lengths	ea	1		
38	1.8.4	Service connection - 25 mm diam., all lengths	ea	1		
39	1.8.13	Tie-in - 300 mm to be totally performed by Contractor; 2+330	ea	1		
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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b><u>33 30 01 Sanitary Sewers - Imported Backfill</u></b>						
40	1.6.1/2	Pipe - 200 mm diam. PVC DR35; < 2 m depth	m	10		
41	1.6.1/2	Pipe - 250 mm diam. PVC DR35; < 2 m depth	m	75		
42	1.6.1/2	Pipe - 250 mm diam. PVC DR35; 2 m - 3 m depth	m	82		
43	1.6.1/2	Pipe - 250 mm diam. PVC DR35; 3 m - 4 m depth	m	60		
44	1.6.1/2	Pipe - 750 mm diam. PVC DR35; < 2 m depth	m	233		
45	1.6.1/2	Pipe - 750 mm diam. PVC DR35; 2 m - 3 m depth	m	724		
46	1.6.1/2	Pipe - 750 mm diam. PVC DR35; 3 m - 4 m depth	m	225		
47	1.6.1/2	Pipe - 750 mm diam. PVC DR35; 4 m - 5 m depth	m	124		
48	1.6.3	Service connection - 100 mm diam., all lengths	ea	66		
49	1.6.3	Service connection - 150 mm diam., all lengths	ea	5		
50	1.6.4	Inspection Chamber	Ea	71		
51	1.6.7	Tie-in - 250 mm diam. pipe into existing 1050 mm diam. MH [EX SMH4]	ea	1		
52	1.6.7	Tie-in - 250 mm diam. pipe into existing 200 mm diam. AC pipe with MH [SMH3]	ea	1		
53	1.6.7	Tie-in - 750 mm diam. pipe into existing 1050 mm diam. sewer with MH	ea	1		
<b><u>33 34 01 Sewage Forcemains - Imported Backfill</u></b>						
53a	1.8.1/2	Pipe – 50 mm diam. PVC – Pressure Class C165	m	64		
54	1.8.1/2	Pipe - 75 mm diam. PVC - Pressure Class C165	m	141		
55	1.8.1/2	Pipe - 750 mm diam. PVR at 2m depth - Pressure Class C165	m	28		
56	1.8.3	Bend 45 deg. - 75 mm PVC Pressure Class C165	ea	2		
57	1.8.11	Cap - 750 mm	ea	1		
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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<b><u>33 40 01 Storm Sewers - Imported Backfill</u></b>						
58	1.6.1/2	Pipe - 600 mm diam. PVC ribbed	m	22		
59	1.6.1/2	Pipe – 750mm csp	m	15		
60	1.6.9	Tie-in - 600 mm diam. pipe into existing DMH	ea	1		
<b><u>33 44 01 Manholes and Catchbasins</u></b>						
61	1.5.1.1	Manhole base, lid, slab, cover and frame - 1050 mm diam.	ea	1		
62	1.5.1.1	Manhole base, lid, slab, cover and frame - 1350 mm diam.	ea	19		
63	1.5.1.1	Manhole base, lid, slab, cover and frame - 1800 mm diam.	ea	1		
64	1.5.1.2	Manhole riser section - 1050 mm diam.	Vert. m	4.5		
65	1.5.1.2	Manhole riser section - 1350 mm diam.	Vert. m	46.3		
66	1.5.1.2	Manhole riser section - 1800 mm diam.	Vert. m	3.9		
67	1.5.4	Rebench existing manhole	ea	3		
68	1.5.5	Outside ramp manhole base, lid, slab, cover and frame - 1050 mm diam.	ea	1		
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**SUMMARY**

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**Sub-Total:**

GST (5%):

**Total:**

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