



TENDER 18-13

WATERFRONT SEWER UPGRADES PHASE I

ADDENDUM NO. 5

May 24th, 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

1. **Proponent Question:**

The sketch provided in addendum 3 indicates the connection between lock kblocks. Can you please provide the transition from the cast in place to the lock-block. The cast in place wall is only 12 inches thick.

Response:

See attached sketch.

2. **Proponent Question:**

Concerning the 50mm asphalt cutting, is that none of the asphalt cutting will be 50mm, other than the driveways. The asphalt thickness on the Island Highway is indicated at 100mm in the test hole data.

Response:

The wording "50 mm depth" from items 28 & 29 in the Schedule of Quantities and Prices has been removed. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached.

3. **Proponent Question:**

Is there any information available regarding the flows in the various mains that we will be tying into the new trunk main?

Response:

Flows vary based on time of day and collection area; flow information may be able to be provided post award.

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4. Proponent Question:

There appears to be a lot more landscaping issues that the trees and shrubs mentioned in Tender Items 32 and 33. Will there be a payment item for lawn repairs, misc flower beds, etc...?

Response:

See SS 32 93 01, Clause 1.9.5. Payment for landscape restoration will include all labour, equipment and materials required to reinstate the existing landscape features to match the pre-construction condition.

5. Proponent Question:

Could you advise what the “L” in a circle, that appears on some lots but not others, is signifying?

Response:

The L in a circle identifies the properties where additional landscaping or features require reinstatement as opposed to incidental works such as sod – see Specification 32 93 01.

6. Proponent Question:

In regards to some of the Q&A in addendum #3: Proponent Question #8 regarding the 250mm sanitary sewer conflict at sta 2+458.

Rather than “develop methodology to maintain operations of existing system”, wouldn’t the more practical response be to lower SMH19 enough for the 750mm main to pass below the 250mm sanitary?

Response:

No design changes will be made at this time.

7. Proponent Question:

Regarding the proposed 250mm Sanitary main from sta 1+000 to sta 1+200: Can SMH2 be shifted to the east so that the obvious conflict with the existing 200mm concrete sanitary main is avoided?

Response:

No design changes will be made at this time.

8. Proponent Question:

There doesn’t appear to be a payment item for coring into the existing SMH at 6th Ave and tying in the new 200mm sanitary main. Will an item be added for this, or is the work to be included elsewhere?

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Response:

The Schedule of Quantities and Prices has been revised to add line 50a. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow.

9. Proponent Question:

What is the current status of the 1050 dia RC main that is the tie-in point at SMH22? Is this a "live" system? The drawings suggest it's abandoned, upstream of the tie-in SMH22. Is there information on the flow volume in this main?

Response:

Pipe is abandoned upstream of the tie in at SMH22.

10. Proponent Question:

Can native backfill be utilized in the 250mm sanitary main trench, where it is south of the 1st Ave pavement?

Response:

Imported backfill should be employed everywhere as the quality of the native material is unknown.

11. Proponent Question:

Regarding SMH3, the notes on sheet 2 indicate a tie-in to the existing 200mm AC sanitary main with an inside drop. The Detail sheet 10 indicates an outside drop. Could you clarify this?

Response:

Outside Drop is required at SMH 3.

12. Proponent Question:

Regarding new tender item 53a: There are two runs of 50mm service in that 64Lm of trench line. The actual amount of 50mm service pipe will be 100 LM. The payment items says that these pipe will be paid for separately.

Response:

There is one run of 50 mm diam. service, with a tee off for 351, continuing to 341, total length of pipe = 64 m

13. Proponent Question:

There are two Low Pressure Service Connection chambers required. How are these paid for?

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Response:

The Schedule of Quantities and Prices has been revised to add line 57a. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow.

Add Clause 1.8.13 to SS 33 34 01: Payment for the Low Pressure Service Connection boxes will include the supply and installation of all items show on Detail 3 on Sheet C201 of the tender drawings.

14. Proponent Question:

Drawing sheet 7 asks for a 25mm water meter installed for #235 Island Highway. There is no tender item for this. Where should it be included?

Response:

Items 35 & 38 cover this work.

15. Proponent Question:

Can you please confirm which company has been awarded the Contract Administration for the Waterfront Sewer Project?

Response:

See Article 6.1 of the Draft Agreement.

16. Proponent Question:

Is there any correlation between the SMH22 invert elevations (1.47m) and the mean high and low tides for the Discovery Pier area? Is the 1.47m elevation above the mean high tide?

Response:

The mean high tide for the pier location is 2.8 m, which is -0.118 m geodetic [chart datum – 2.918 m]. Other local tide data:

- Large – 4.6 m chart datum = 1.682 m geodetic
- HHW – 5.4 m ----ditto---- = 2.482 m geodetic
- LLW – 0.2 m ----ditto---- = -2.718 m geodetic

17. Proponent Question:

SoQ item 48 100 mm service connections. My count is 76, SoQ is 66, please confirm quantity.

Response:

The Schedule of Quantities and Prices has been revised to update the quantity. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow. One of the notes on C101 is incorrect.

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18. Proponent Question:

SoQ Item 49 150 mm service connections. My count is 3 (lots 361, 391, 517), SoQ is 5. Please confirm quantity.

Response:

The Schedule of Quantities and Prices has been revised to update the quantity. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow.

19. Proponent Question:

Note 5 sheet C104 indicates that the 300 mm watermain is cut out while the sewer main is being installed (...allow for replacement of section during crossing...) which would indicate that the pipe would be cut, the sewer line installed, and then the 300 mm watermain is installed after the sewer main is bedded and backfilled to the invert of the water main. This will require a shutdown of the main for the duration of time that it takes to install the sewer line and backfill to the invert of the watermain. Please confirm that this is the intent.

Response:

Payment under SOQ item No.39.

20. Proponent Question:

The note further states that “continuous water service to be maintained at all times during construction”. This would require a temporary water supply system to all users affected by the shutdown (all businesses and residents between 5th Ave and 6th Ave on both sides of the road). Is this the intent and how will this be paid for?

Response:

An exception to “CONTINUOUS WATER SERVICE TO BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION” will be made for the replacement of the 300mm water main at Sta. +/- 2+330.

The Contractor is required to expose the watermain crossing at STN 2+330 and confirm with the Contract Administrator the impacts to the existing 300mm AC watermain. Should the existing watermain be in conflict with the new sewer pipe alignment and require relocation this will be paid under items 36 and 39 of the Schedule of Quantities and Prices. Should there be no conflict and the Contractor is able to support the existing 300mm AC watermain pipe then this work will be considered incidental.

The Schedule of Quantities and Prices has been revised to reflect that this work is “**optional work**”. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow.

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21. Proponent Question:

SoQ item 50 Inspection Chambers quantity is 71. My count is 79. Please confirm quantity.

Response:

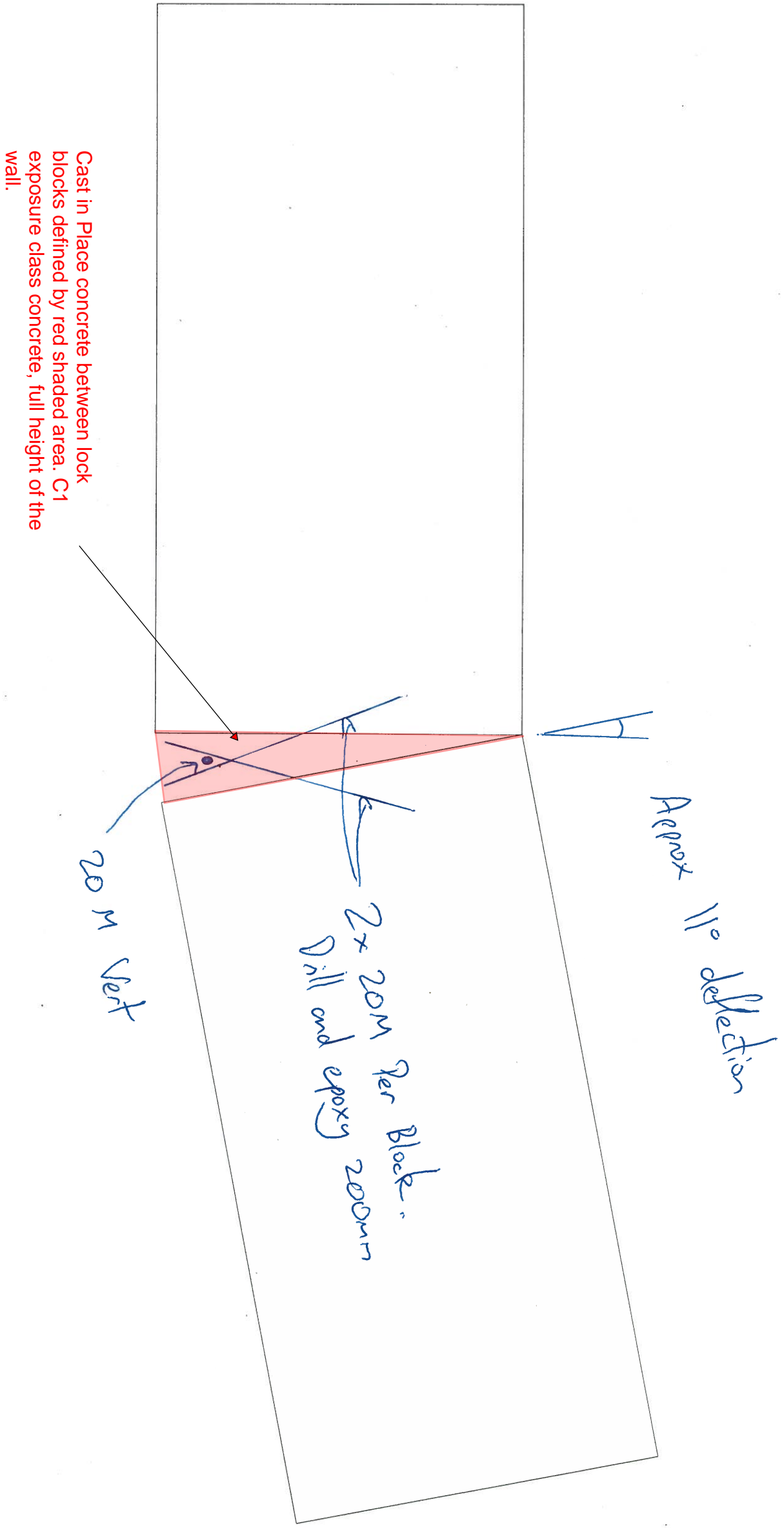
The Schedule of Quantities and Prices has been revised to update the quantity. Replace Appendix 1B with **Appendix 1C (issued 24May18)**, as attached. Updates are shown in bold and highlighted yellow. One of the notes on C101 is incorrect.

End of Addendum

Acknowledgement of this Addendum in your Tender submission is required.

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

Cast - In - Place Detail



Appendix 1C (issued 24May18)

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
01 - GENERAL ITEMS						
<u>01 01 01 Mobilization and Demobilization</u>						
1	1.1.1-1.1.5	Mobilization & Demobilization (maximum 10% of Tender Price)	LS	1		
<u>01 33 01 Project Record Documents</u>						
2	1.8.1	Project record documents	LS	1		
<u>01 52 01 Temporary Structures</u>						
3	1.6.1	Temporary structures	LS	1		
<u>01 53 01 Temporary Facilities</u>						
4	1.9.1	Sanitary facilities, site storage, loading and hoardings	LS	1		
<u>01 55 00 Traffic Control, Vehicle Access and Parking</u>						
5	1.5.1	Traffic control, vehicle access and parking	LS	1		
6	1.5.2	Dynamic message signs; optional	wk	26		
<u>01 62 00 Removals</u>						
7	7.1.5	Removals	LS	1		
<u>01 57 01 Environmental Protection</u>						
8	1.6.1	Temporary erosion and sediment control	LS	1		
03 - CONCRETE						
<u>03 30 20 Concrete Walks, Curbs and Gutters</u>						
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 ²	357		
11	1.4.6	Concrete driveway panels; 125 mm thick [8 driveways]	m ²	290		
Sub-Total Page 9:						

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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
12	1.4.11	Remove and replace brick pavers	m ²	242		
		03 30 55 Precast Interlocking Blocks				
13	1.3.1/2	Interlocking Blocks	m ²	70		
		31 - EARTHWORKS				
		31 22 16 Reshaping Granular Roadbeds				
14	1.4.1	Asphalt restoration preparation [15 driveways]	m ²	135		
15	1.4.5	Temporary gravel running surface	LS	1		
		31 22 16.1 Reshaping Existing Subgrade				
16	1.4.2	Remove unsuitable subgrade; optional work	m ³	150		
		31 23 01 Excavating, Trenching and Backfilling				
17	1.10.3	Over-excavation including backfilling; optional	m ³	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		
		31 23 17 Rock Removal				
20	1.6.4/5	Boulders and rock fragments - blasting not permitted; optional	m ³	50		
		31 23 23 Controlled Density Fill				
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		
		32 - ROADS AND SITE IMPROVEMENTS				
		32 01 16 Cold Milling				
23	1.5.1	Milling 200mm wide for permanent pavement restoration, 50mm depth	m	3438		
		32 11 16.1 Granular Subbase				
24	1.4.2	Granular subbase; optional work	T	375		
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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<u>32 11 23 Granular Base</u>						
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 ²	192		
27	1.4.5	Gravel driveway restoration Blue Chip; 100 mm thk; optional	m ²	36		
<u>32 12 16 Hot-Mix Asphalt Concrete Paving</u>						
28	1.5.7	Saw cut asphaltic or concrete pavements in preparation for new asphalt concrete; mainline	m	2818		
29	1.5.7	Saw cut asphaltic or concrete pavements in preparation for new asphalt concrete; service connections	m	620		
30	1.5.9	Coordination of Owner's Asphalt Contractor	LS	1		
<u>32 17 23 Painted Pavement Markings</u>						
31	1.5.2	Permanent painted pavement marking	LS	1		
<u>32 93 01 Planting of Trees, Shrubs and Ground Covers</u>						
32	1.9.5	Landscape restoration	ea	21		
33	1.9.5	Landscape restoration; optional [342 & 352]	ea	2		
33 - UTILITIES						
<u>33 01 30.1 CCTV Inspection of Pipelines</u>						
34	1.6.2	CCTV pipeline inspection	m	1572		
<u>33 11 01 Waterworks - Imported Backfill</u>						
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 (optional work)	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 (optional work)	ea	1		
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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<u>33 30 01 Sanitary Sewers - Imported Backfill</u>						
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	75		
49	1.6.3	Service connection - 150 mm diam., all lengths	ea	3		
50	1.6.4	Inspection Chamber	ea	78		
50a	1.6.7	Tie-in – 200mm diam. pipe into existing 1050 mm diam. MH	Ea	1		
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		
<u>33 34 01 Sewage Forcemains - Imported Backfill</u>						
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		
57a	1.8.13	Low Pressure Service Connection Boxes	ea	2		

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Item	MMCD Ref.	Description	Unit	Quantity	Unit Price	Amount
<u>33 40 01 Storm Sewers - Imported Backfill</u>						
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		
<u>33 44 01 Manholes and Catchbasins</u>						
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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