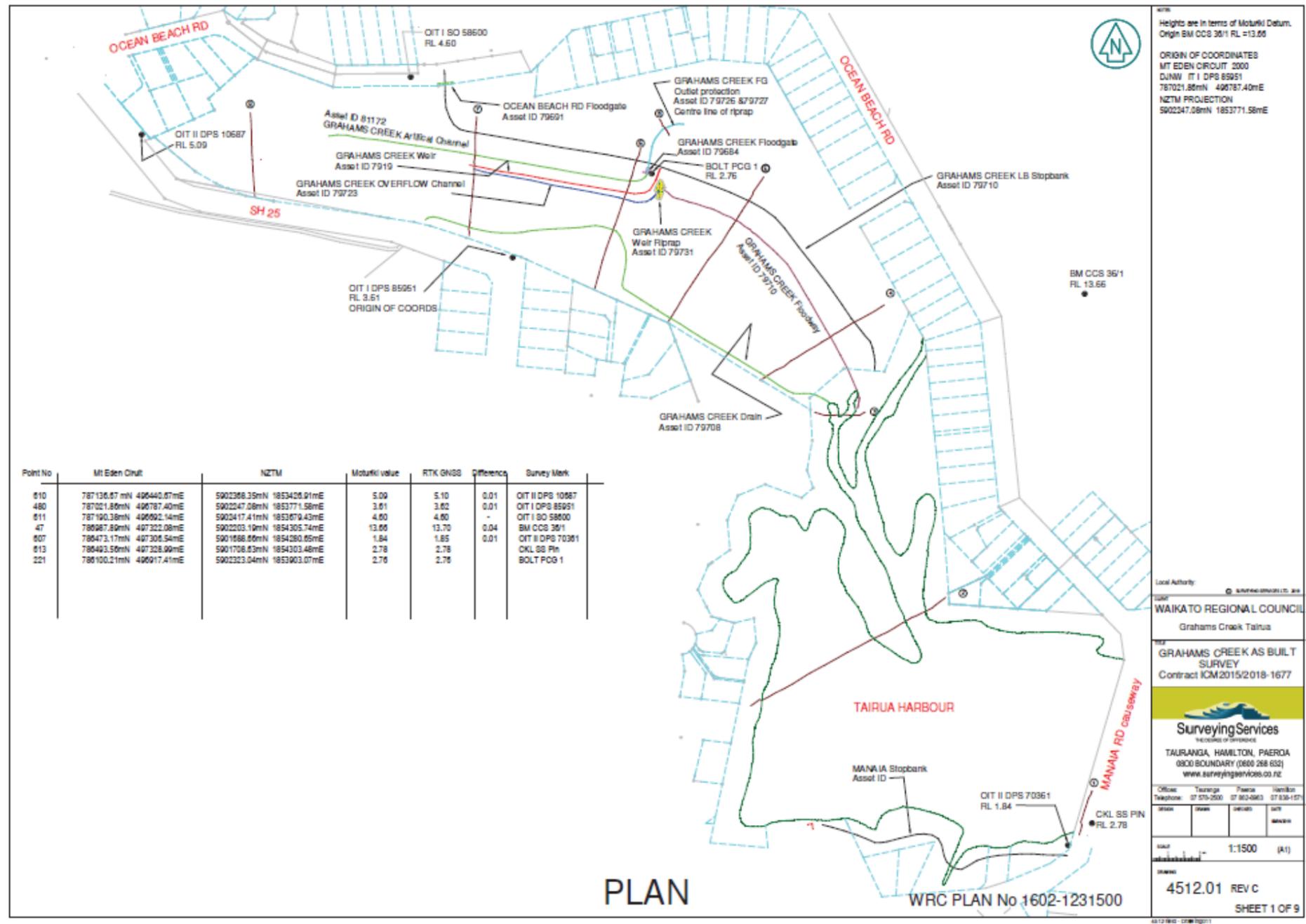
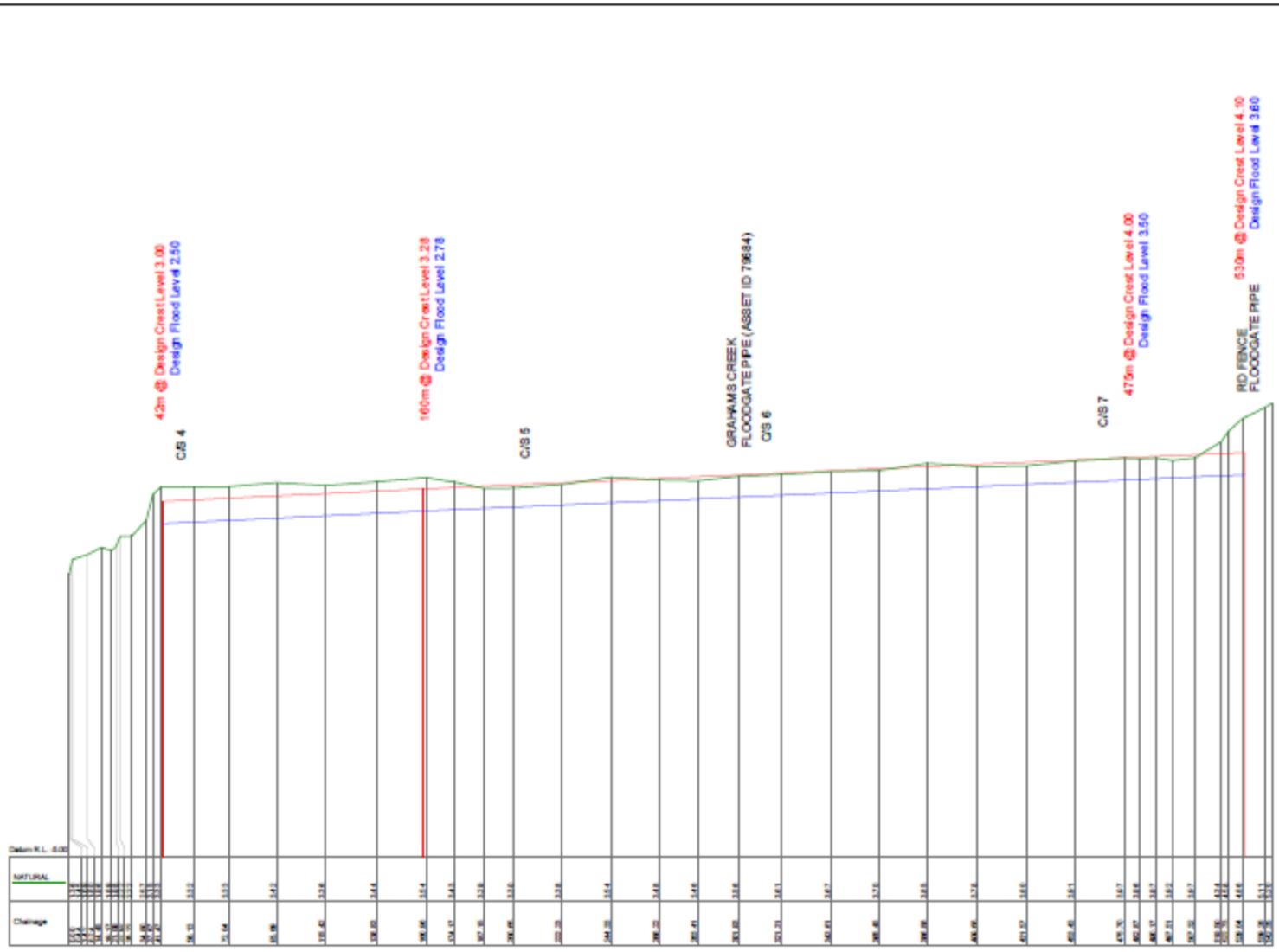


Appendix C – As built Survey

Plan 1602-121500 Grahams Creek As-builts.pdf





GRAHAMS CREEK RB Stopbank
Asset ID 79710

Scale Horizontal 1:2000 @ A3
Scale Vertical 1:100 @ A3

REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7
REVISION C - 10/05/2018
Change design level Sht 2

- NOTES
- LEVELS ARE IN TERMS OF MOTURKI DATUM 1957
 - DESIGN LEVELS ARE INTERPOLATED FROM T&T DRAWINGS WRC PLAN NO. 1602-121500
 - FREEBOARD (0.50m) AS FROM HYDRAULIC MODELLING REPORT #305677

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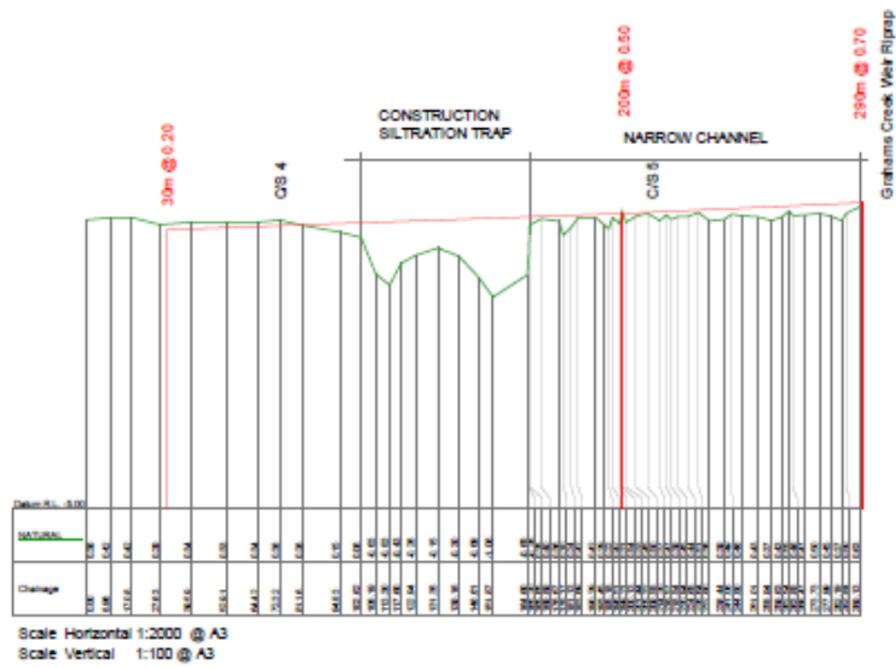
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SURVEY	DRAWN	CHECKED	DATE
	PCG		02/02/2018

SCALE
AS SHOWN (A3)

DRAWING No. SHEET 2 OF 9
WRC PLAN NO 1602-121500



GRAHAMS CREEK Floodway
Asset ID 79710

Scale Horizontal 1:2000 @ A3
Scale Vertical 1:100 @ A3

- NOTES**
1. LEVELS ARE IN TERMS OF MOTURKI DATUM 1957
 2. DESIGN LEVELS ARE INTERPOLATED FROM T&T DRAWINGS WRC PLAN NO. 1602-121500
 3. FREEBOARD (0.50m) AS FROM HYDRAULIC MODELLING REPORT #306677

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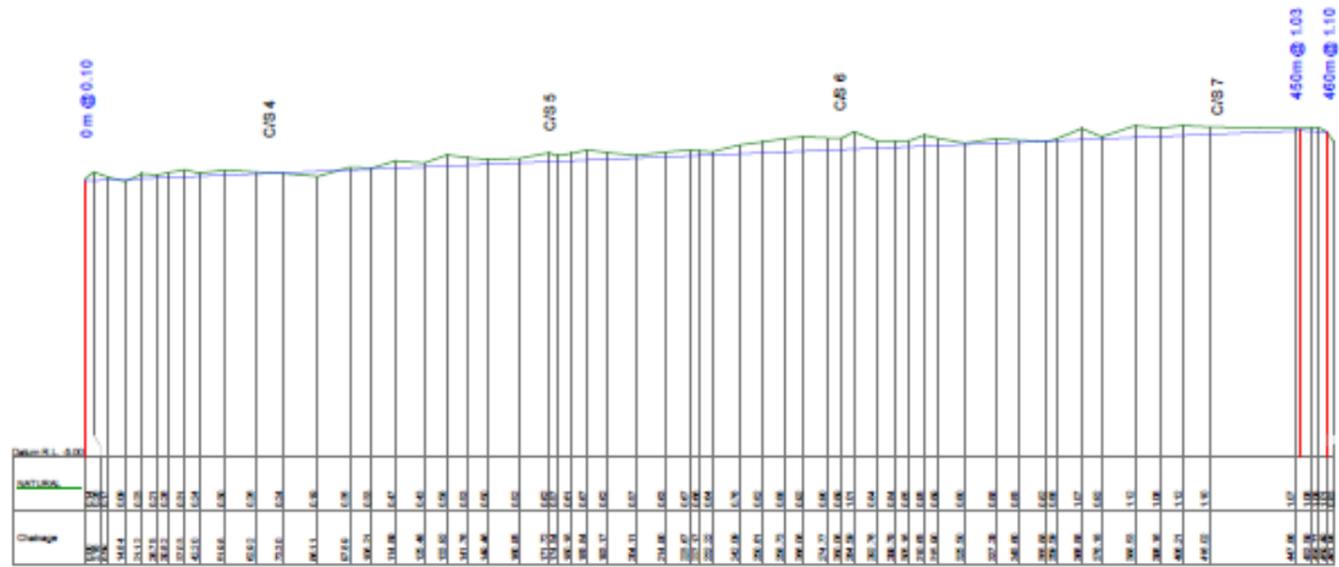
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SURVEY	DRAWN	CHECKED	DATE
	PCG		02/02/2018

SCALE
AS SHOWN (A3)

DRAWING No. SHEET 4 OF 9
WRC PLAN NO 1602-121500

REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7
REVISION C - 10/05/2018
Change design level Sht 2



Scale Horizontal 1:2000 @ A3
 Scale Vertical 1:100 @ A3

GRAHAMS CREEK DRAIN
 Asset ID 79708

REVISION B - 09/04/2018
 Comments added.
 Design levels added Sht 7
 REVISION C - 10/05/2018
 Change design level Sht 2

- NOTES**
- LEVELS ARE IN TERMS OF MOTURKI DATUM 1957
 - DESIGN LEVELS ARE INTERPOLATED FROM T&T DRAWINGS WRC PLAN NO. 1602-121500
 - FREEBORD (0.5m) AS FROM HYDRAULIC MODELLING REPORT #2066077

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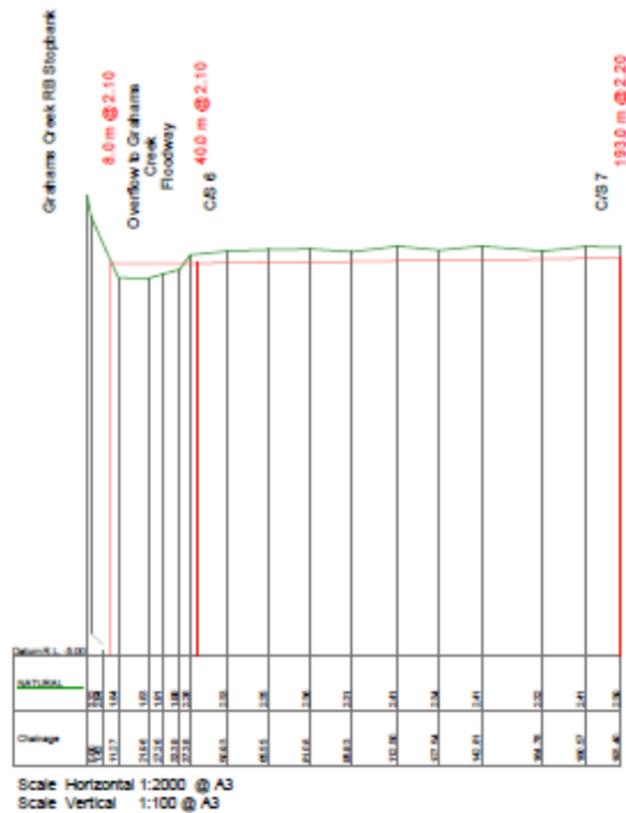
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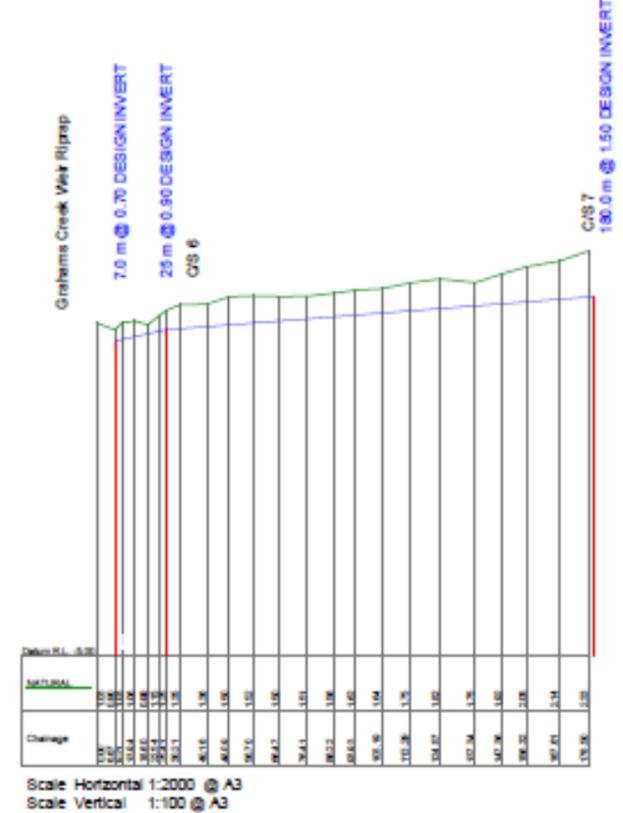
SURVEY	DRAWN	CHECKED	DATE
	PCG		02/02/2018

SCALE
 AS SHOWN (A3)

DRAWING No. SHEET 5 OF 9
WRC PLAN NO 1602-121500



GRAHAMS CREEK WEIR
(Asset ID 7919)



GRAHAMS CREEK OVERFLOW CHANNEL
Asset ID 7923

REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7
REVISION C - 10/05/2018
Change design level Sht 2

- NOTES
- LEVELS ARE IN TERMS OF MOTURHI DATUM 1957
 - DESIGN LEVELS ARE INTERPOLATED FROM T&T DRAWINGS WRC PLAN NO. 1602-121500
 - FLOODBOARD (0.50m) AS FROM HYDRAULIC MODELLING REPORT #306677

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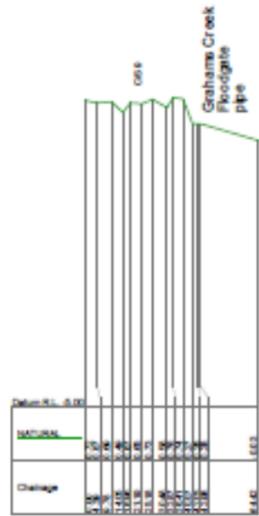
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	PCG		02/02/2018

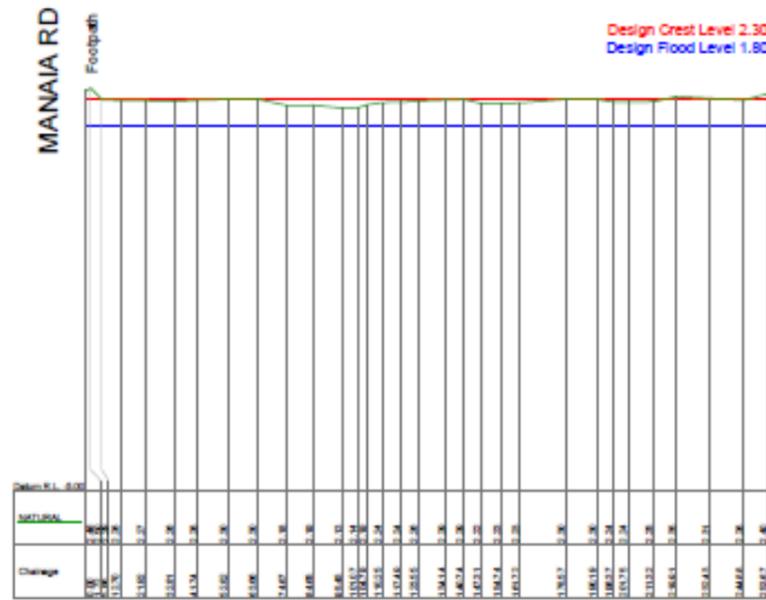
SCALE
AS SHOWN (A3)

DRAWING No. SHEET 6 OF 9
WRC PLAN NO 1602-121500



Scale Horizontal 1:2000 @ A3
Scale Vertical 1:100 @ A3

GRAHAMS CREEK FG
Outlet Protection
Asset ID 79726



Scale Horizontal 1:2000 @ A3
Scale Vertical 1:100 @ A3

MANAIA Stopbank
Asset ID

REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7
REVISION C - 10/05/2018
Change design level Sht 2

- NOTES
- LEVELS ARE IN TERMS OF MOTURKI DATUM 1957
 - DESIGN LEVELS ARE INTERPOLATED FROM T&T DRAWINGS WRC PLAN NO. 1602-121500
 - FREESBOARD (0.30m) AS FROM HYDRAULIC MODELLING REPORT #026677

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	PCG		02/02/2018

SCALE
AS SHOWN (A3)

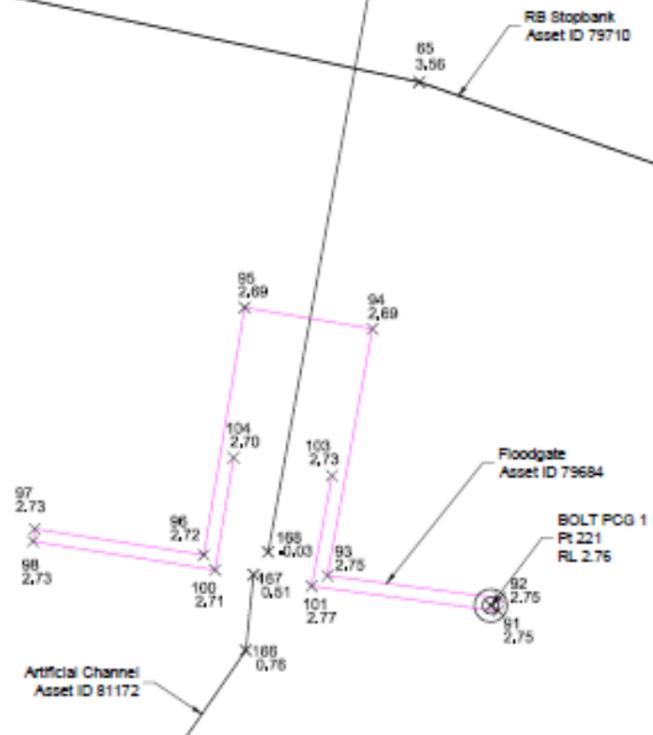
DRAWING No. SHEET 7 OF 9
WRC PLAN NO 1602-121500



**GRAHAMS CREEK FLOODGATE
ASSET ID 79684
INLET**



**GRAHAMS CREEK FLOODGATE
ASSET ID 79684
OUTLET**



Point No.	DATUM				ELEVATION Moloni 1953(m)	DESCRIPTION
	DATUM 2000 Māori Eāen		NZRS Coordinates			
	Northng (m)	Eastng (m)	Northng (m)	Eastng (m)		
91	49617.55	78700.10	1853903.21	5902322.93	2.75	SECONC
92	49617.58	78700.35	1853903.24	5902323.17	2.75	SECONC
93	49614.42	78700.75	1853900.09	5902323.94	2.75	SECONC
94	49615.24	78705.27	1853901.00	5902328.14	2.69	SECONC
95	49612.90	78705.68	1853898.67	5902328.57	2.69	SECONC
96	49612.15	78701.13	1853897.85	5902324.06	2.72	SECONC
97	49609.05	78701.61	1853894.74	5902324.59	2.73	SECONC
98	49609.03	78701.58	1853894.71	5902324.36	2.73	SECONC
100	49612.36	78700.86	1853894.04	5902323.78	2.71	SECONC
101	49614.13	78700.56	1853893.80	5902323.45	2.77	SECONC
103	49614.50	78702.58	1853900.21	5902325.47	2.73	CONC
104	49612.70	78702.91	1853894.41	5902325.83	2.70	CONC
168	49613.53	78701.19	1853899.03	5902314.09	-0.03	INLET
506	49617.13	78712.30	1853903.302	5902345.134	0.28	OUTSTREAM

REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7
NOTES

1. THIS PLAN HAS BEEN PREPARED TO IDENTIFY SURVEY POINTS CAPTURED IN THE ASBUILT SURVEY REFERRED TO BELOW.
2. LEVELS ARE IN TERMS OF MOTURKI DATUM 1967

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SURVEY	DRAWN	CHECKED	DATE
	PCG		02/02/2018

SCALE
AS SHOWN (A3)

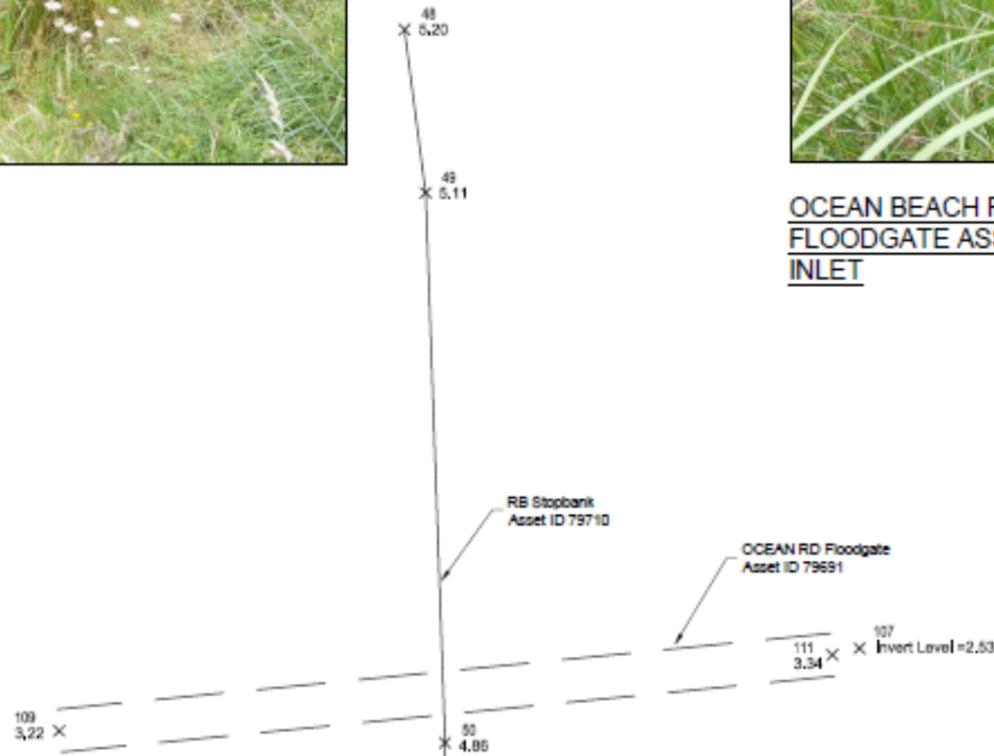
DRAWING No. SHEET 8 OF 9
WRC PLAN NO 1602-121500



OCEAN BEACH ROAD
FLOODGATE ASSET ID 79691
OUTLET



OCEAN BEACH ROAD
FLOODGATE ASSET ID 79691
INLET



REVISION B - 09/04/2018
Comments added.
Design levels added Sht 7

NOTES

1. THIS PLAN HAS BEEN PREPARED TO IDENTIFY SURVEY POINTS CAPTURED IN THE ASBUILT SURVEY REFERRED TO BELOW.
2. LEVELS ARE IN TERMS OF MOTURKI DATUM 1987

Point No.	DATUM				ELEVATION Moturki 1987(m)	DESCRIPTION
	DATUM 2000 NH Eden		NZTM Coordinates			
	Northng (m)	Eastng (m)	Northng (m)	Eastng (m)		
107	496731.53	767184.96	1853729.35	5902411.24	2.53	INLET/OCEAN
109	496717.62	767183.42	1853704.29	5903409.982	3.22	OUTLET/TOPI
111	496731.42	767184.83	1853718.638	5903811.128	3.34	INLET/TOPI

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SURVEY	DRAWN	CHECKED	DATE
	PCG		02/02/2018

SCALE
1:100 (A3)

DRAWING No. SHEET 9 OF 9
WRC PLAN NO 1602-121500

