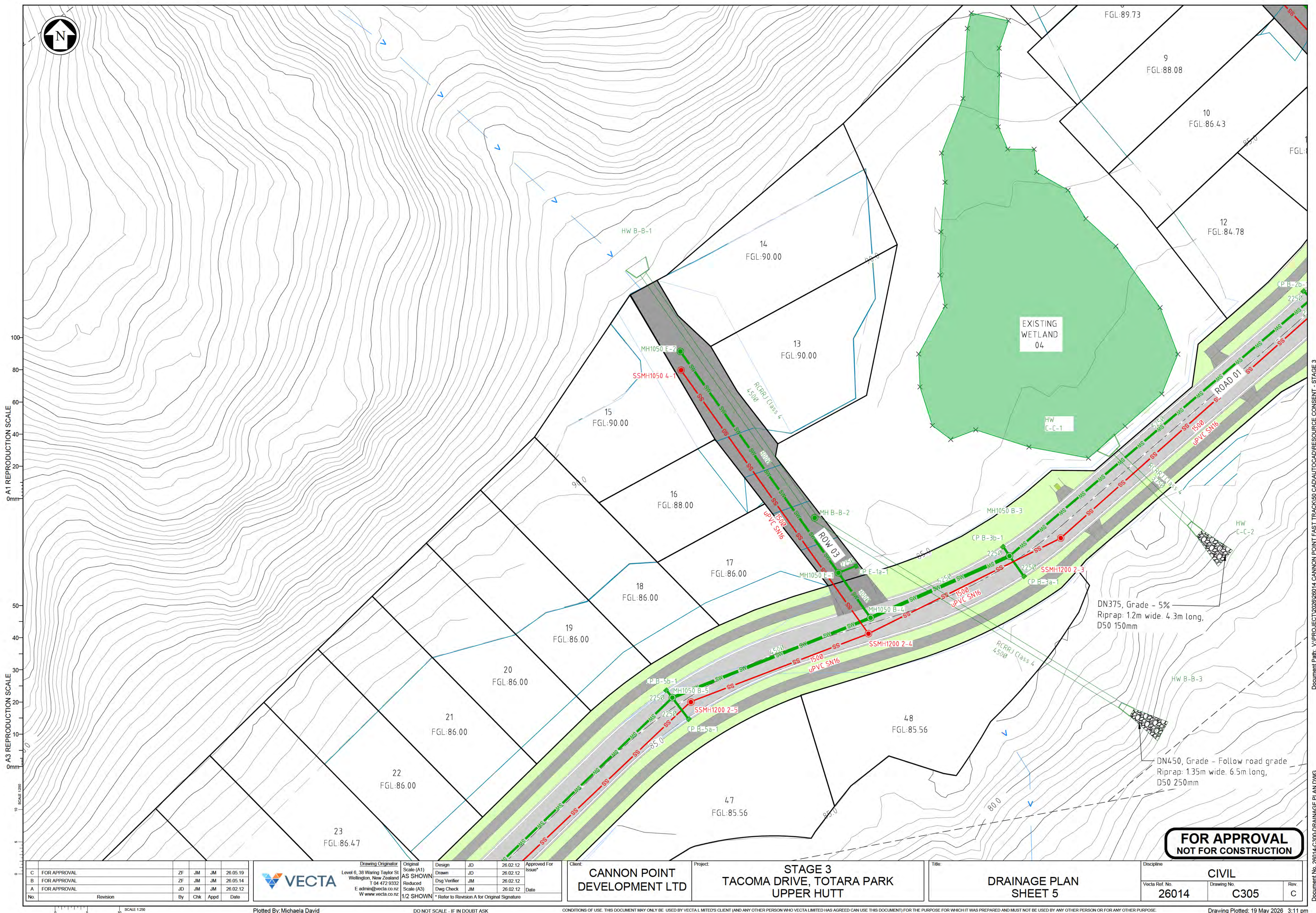
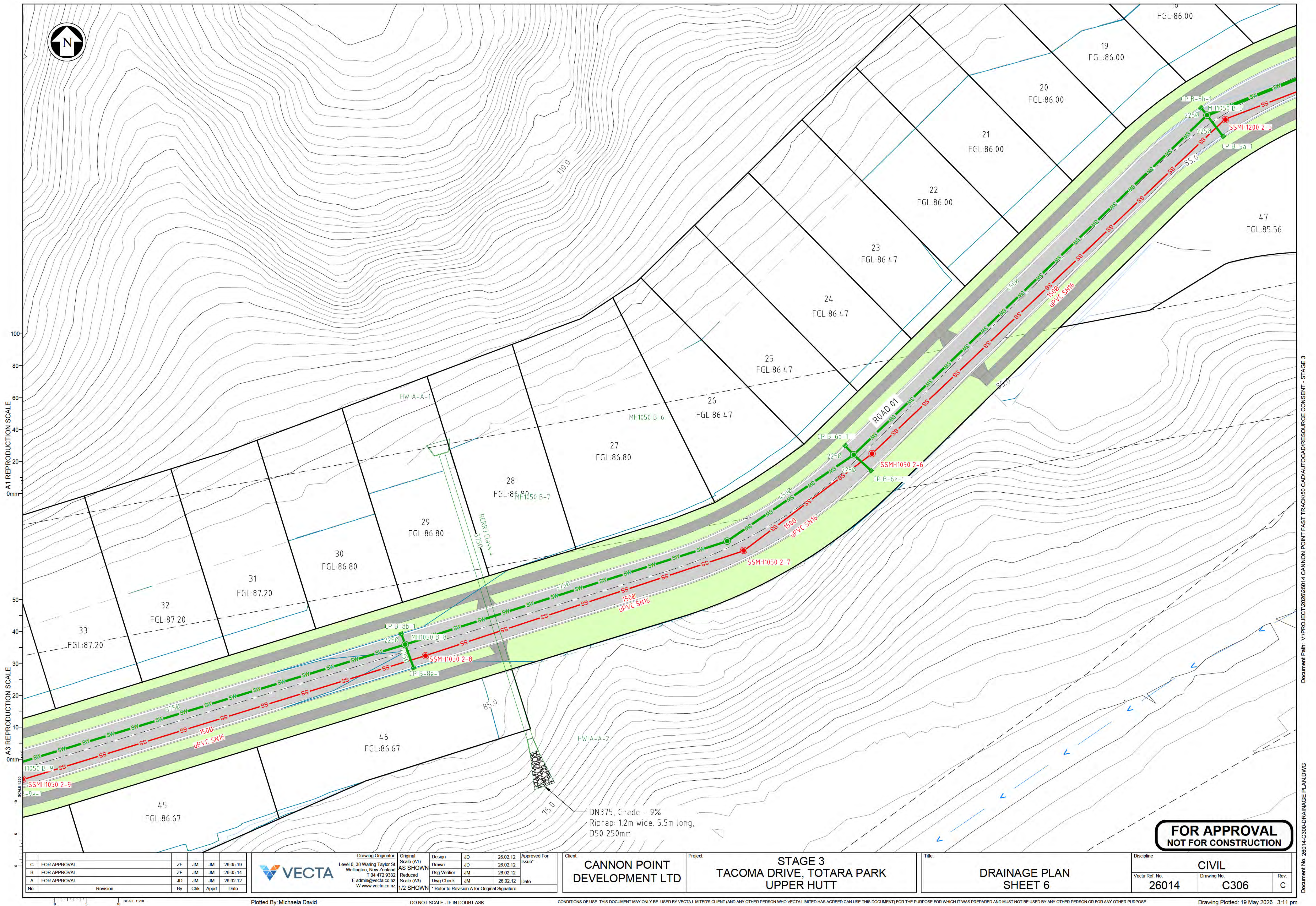






A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

VECTA		Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
Level 6, 38 Waring Taylor St		AS SHOWN	AS SHOWN	Drawn	JD	26.02.12	Date
Wellington, New Zealand				Dwg Verifier	JM	26.02.12	
T 04 472 9332				Dwg Check	JM	26.02.12	
E admin@vecta.co.nz							
W www.vecta.co.nz							
1/2 SHOWN		* Refer to Revision A for Original Signature					

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **DRAINAGE PLAN
SHEET 6**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C306
Rev			C

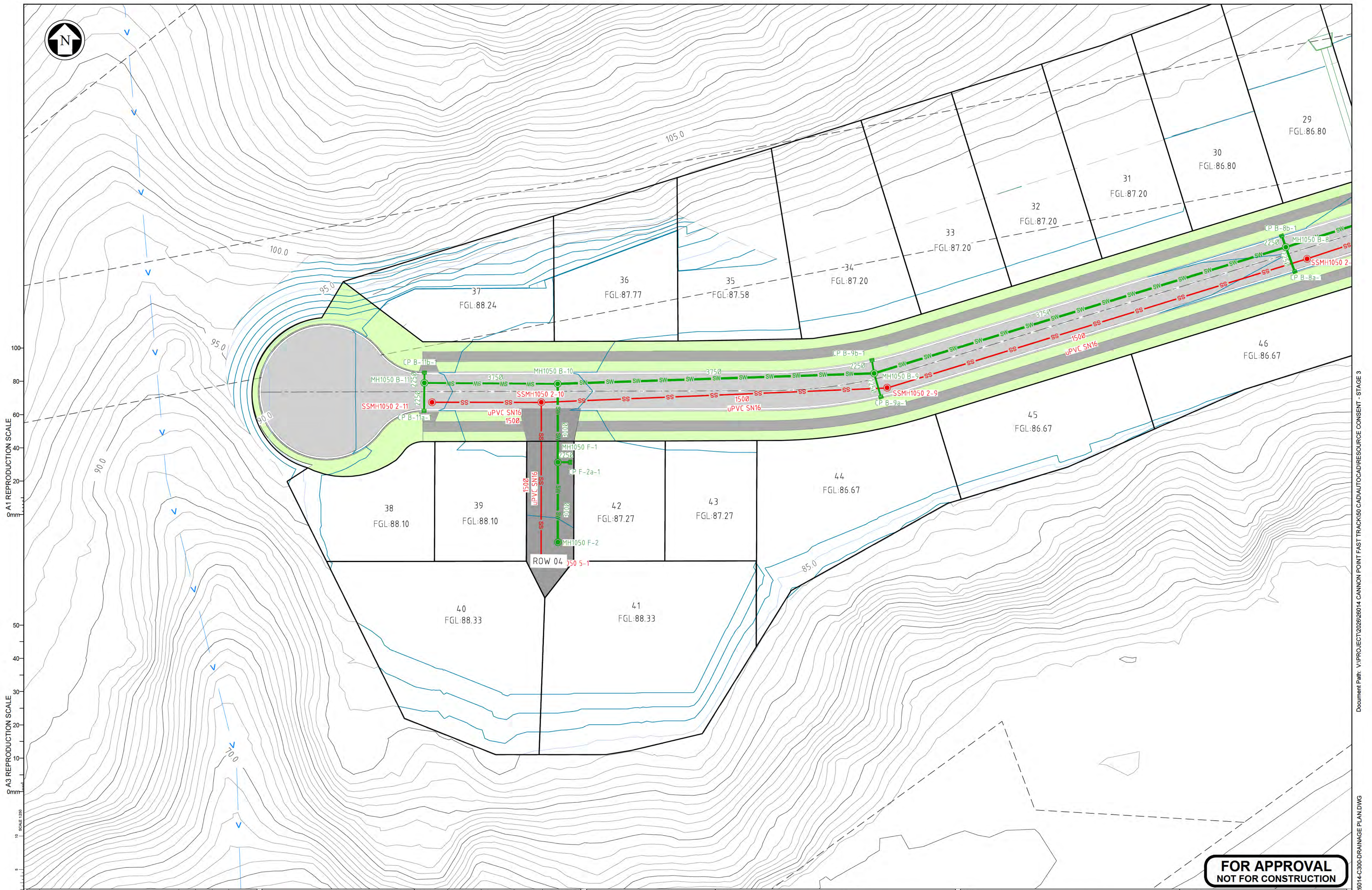
Plotted By: Michaela David

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Document No. 26014-C300-DRAINAGE PLAN.DWG Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3



A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm

SCALE 1:250
0 10 20 30 40 50 60 70 80 90 100

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design
Drawn
Dsg Verifier
Dwg Check

JD
JD
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*
Date

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **DRAINAGE PLAN
SHEET 7**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C307
Rev	C		

**FOR APPROVAL
NOT FOR CONSTRUCTION**

Plotted By: Michaela David

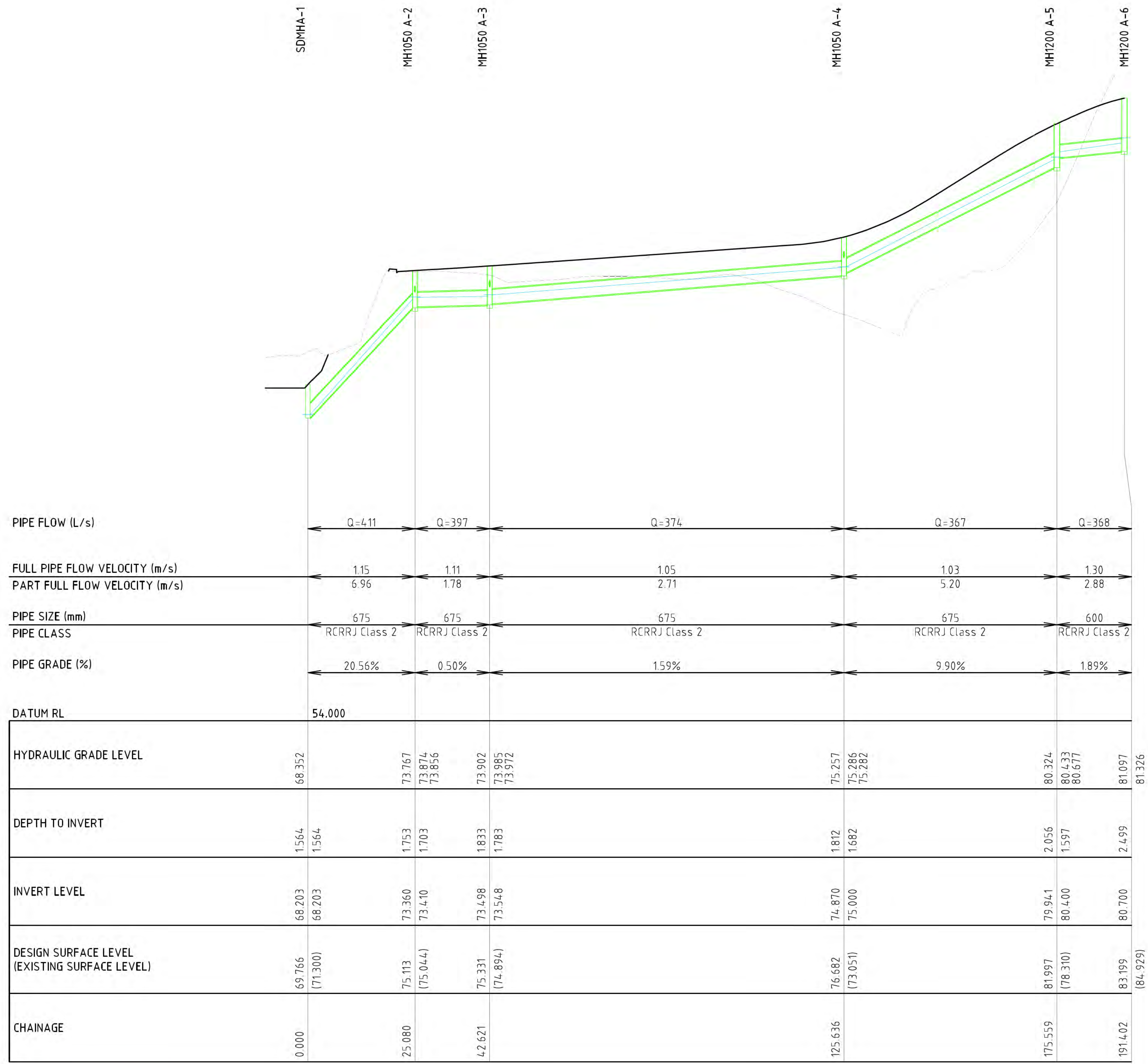
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Drawing Plotted: 19 May 2026 3:12 pm

Document No. 26014-C300-DRAINAGE PLAN.DWG Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3

0 A1 REPRODUCTION SCALE
0mm
20
40
60
80
100
0 A3 REPRODUCTION SCALE
0mm
10
20
30
40
50
60
70
80
90
100
1 SCALE 1:100



STORMWATER LINE

A

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	JD	26.02.12	Date
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	
1/2 SHOWN	Dwg Check	JM	26.02.12	

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Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

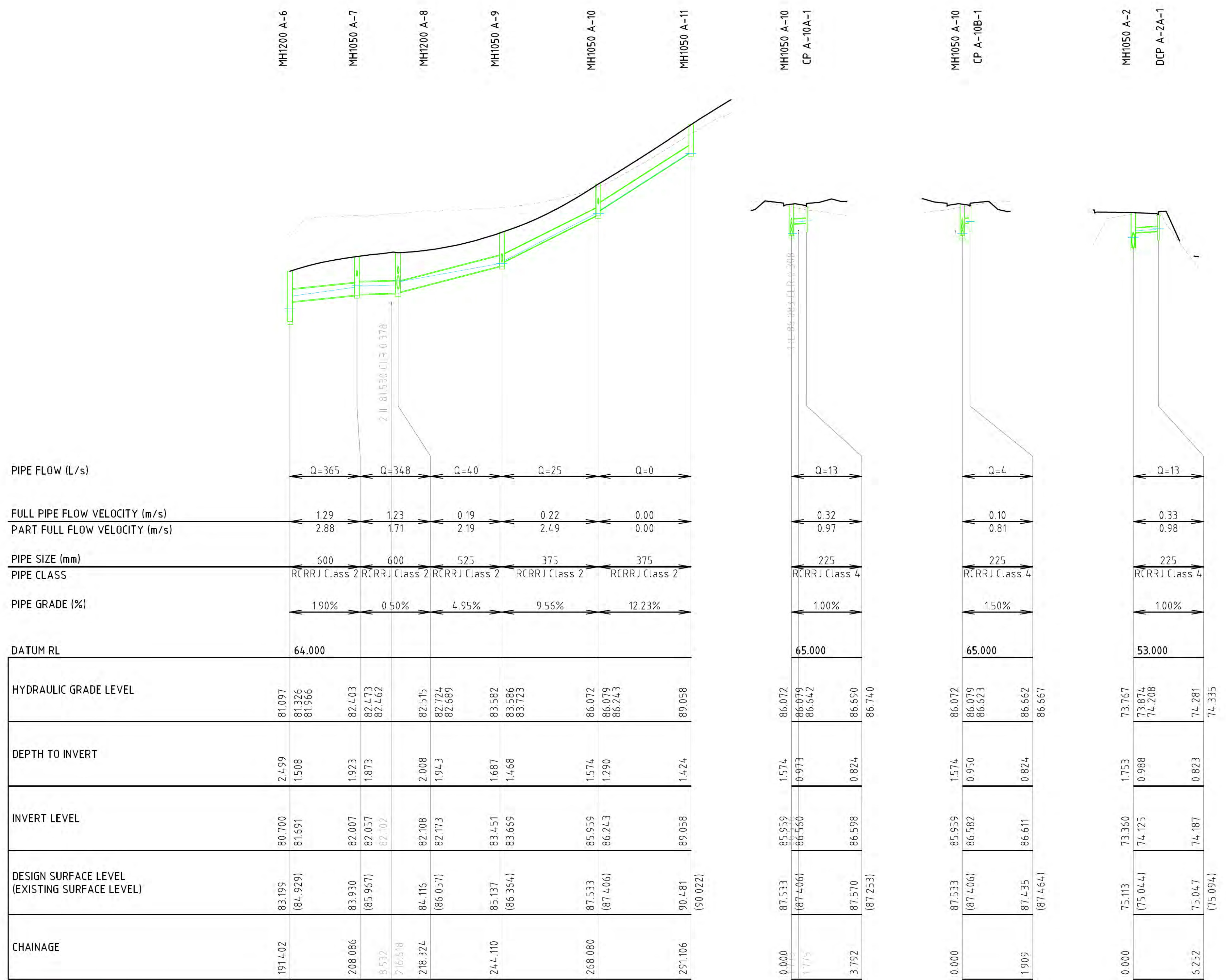
Title: STORMWATER LONGSECTION SHEET 1 STAGE 3

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C310
Rev	C

FOR APPROVAL
NOT FOR CONSTRUCTION

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator

Original Scale (A1)

AS SHOWN

Reduced Scale (A3)

1/2 SHOWN

Design

Drawn

Dwg Verifier

Dwg Check

JD

JM

JM

JM

26.02.12

26.02.12

26.02.12

26.02.12

Approved For Issue*

Date

Client:

CANNON POINT DEVELOPMENT LTD

Project:

STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title:

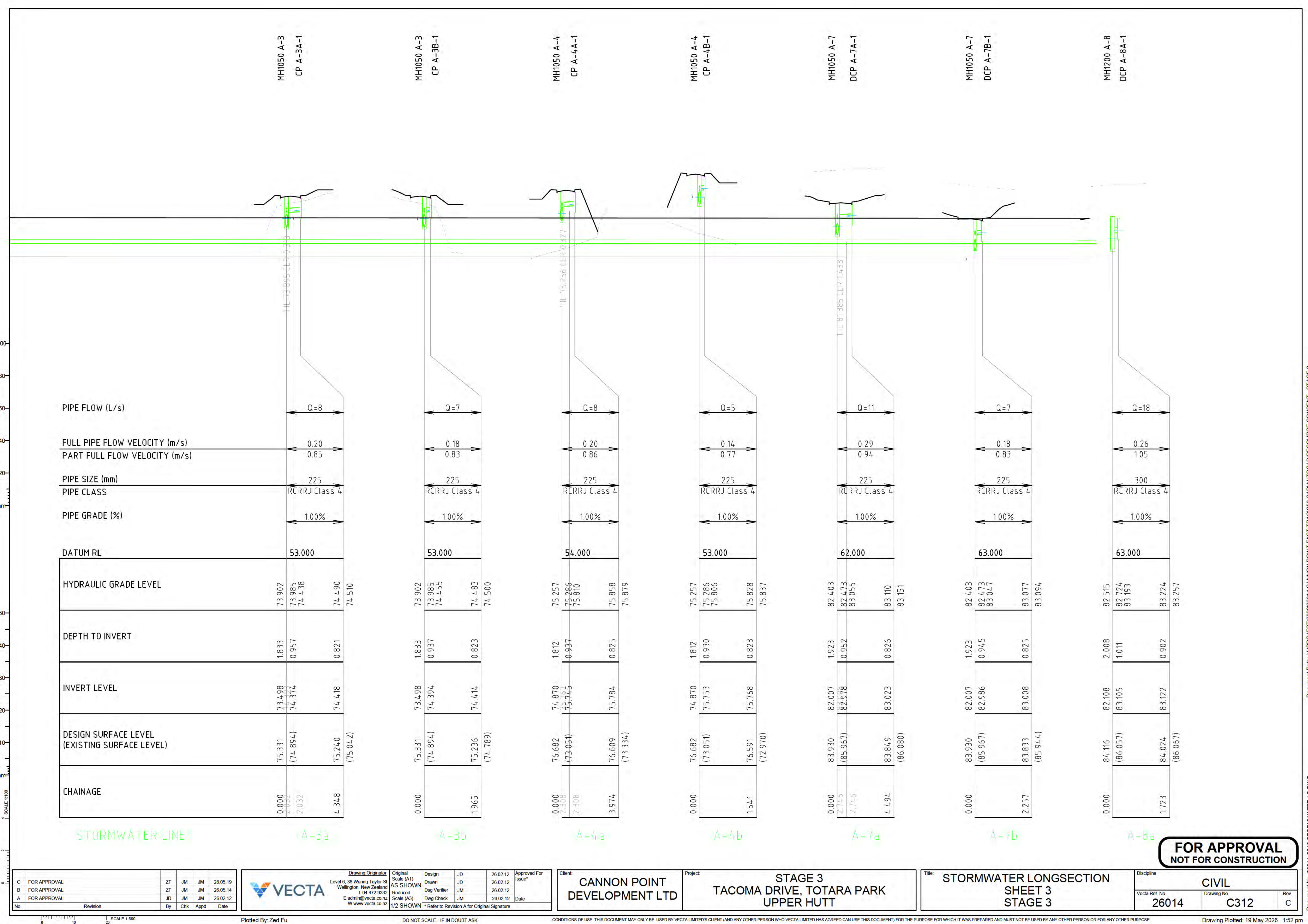
STORMWATER LONGSECTION SHEET 2 STAGE 3

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C311
Rev	C

0 A1 REPRODUCTION SCALE
0mm
20
40
60
80
100

0 A3 REPRODUCTION SCALE
0mm
10
20
30
40
50

1 SCALE 1:100



No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12

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Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design
Drawn
Dsg Verifier
Dwg Check

JD
JD
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*
Date

Plotted By: Zed Fu

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

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Title: STORMWATER LONGSECTION SHEET 3 STAGE 3

Discipline	
CIVIL	
Vecta Ref. No.	Drawing No.
26014	C312
Rev	
C	

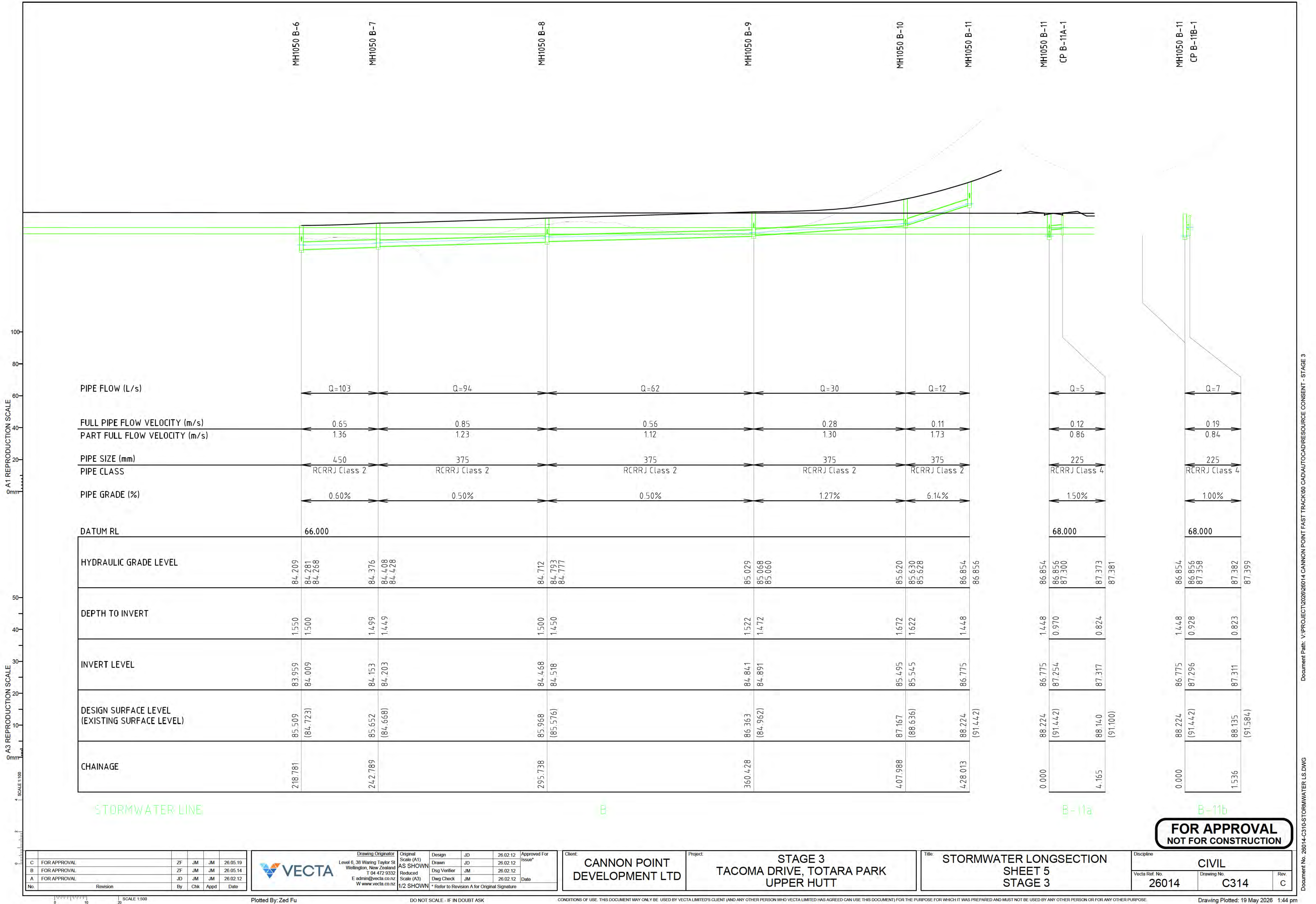
Drawing Plotted: 19 May 2026 1:52 pm

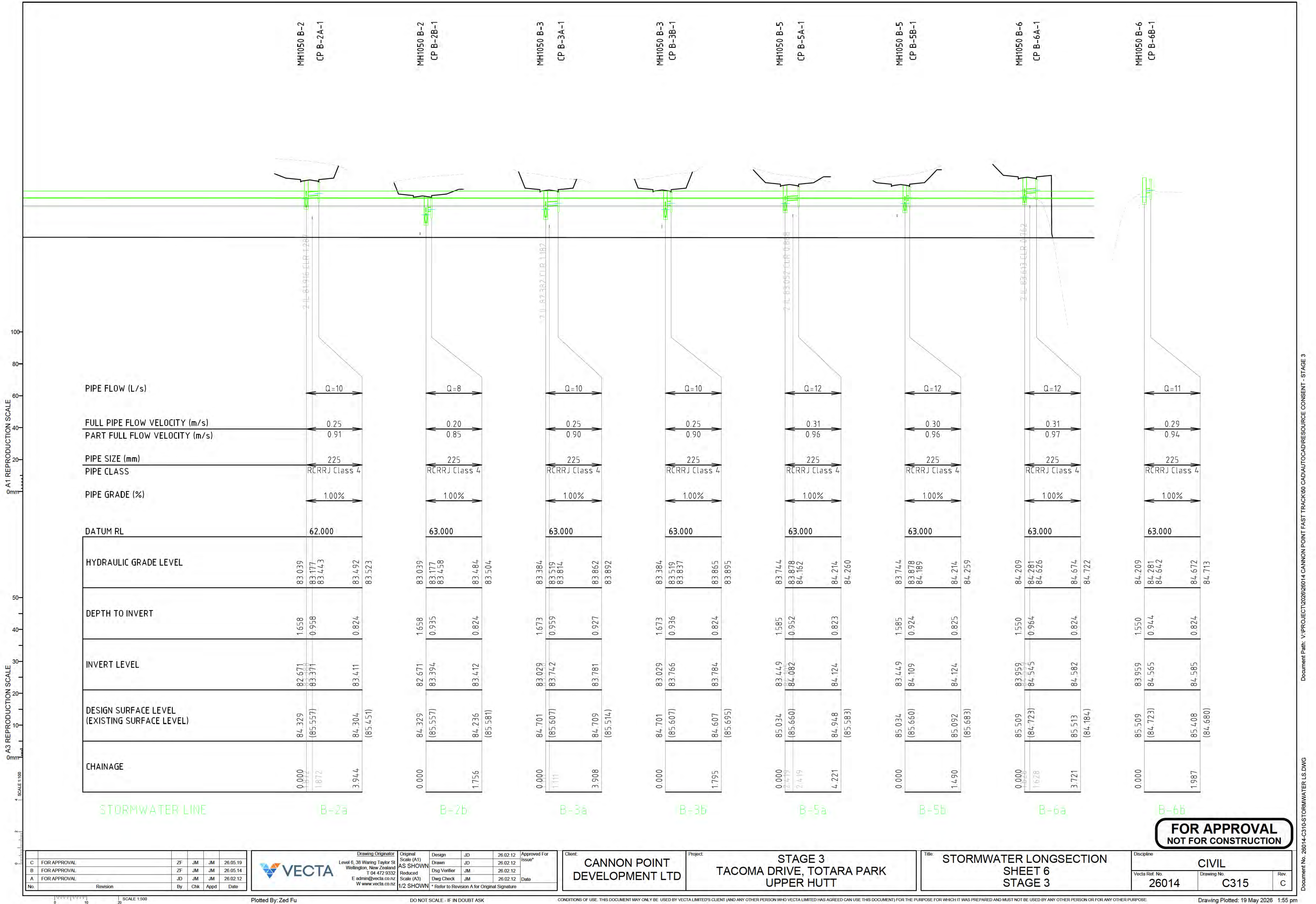
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NOT FOR CONSTRUCTION

Document No. 26014-C310-STORMWATER LS DWG

Document Path: V:\PROJECT\2026014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3

Discipline			
CIVIL			
Vecta Ref. No.		Drawing No.	
26014		C313	
			Rev.
			C





C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design	JD	26.02.12	Approved For Issue*
Drawn	JD	26.02.12	
Disg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	
Date			

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **STORMWATER LONGSECTION
SHEET 6
STAGE 3**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C315
Rev			C

**FOR APPROVAL
NOT FOR CONSTRUCTION**

0 10 20 30 40 50 60 80 100
A1 REPRODUCTION SCALE
0mm
A3 REPRODUCTION SCALE
0mm
1 SCALE 1:100
2
0

PIPE FLOW (L/s)

FULL PIPE FLOW VELOCITY (m/s)
PART FULL FLOW VELOCITY (m/s)

PIPE SIZE (mm)
PIPE CLASS

PIPE GRADE (%)

DATUM RL

HYDRAULIC GRADE LEVEL

DEPTH TO INVERT

INVERT LEVEL

DESIGN SURFACE LEVEL
(EXISTING SURFACE LEVEL)

CHAINAGE

MH1050 B-8
CP B-8A-1

MH1050 B-8
CP B-8B-1

MH1050 B-9
CP B-9A-1

MH1050 B-9
CP B-9B-1

MH1050 A-9
MH1050 C-1

MH1050 C-1
DCP C-1A-1

MH1050 B-1
MH1050 D-1

MH1050 D-2

2 IL 84.233 CLR 0.618

2 IL 84.715 CLR 0.522

Q=10

0.25
0.91

225
RCRRJ Class 4

1.00%

64.000

84.712
84.793
85.081

1.500
0.936

84.468
85.009

85.968
(85.576)

0.000
2.602
2.607

Q=10

0.26
0.91

225
RCRRJ Class 4

1.00%

64.000

84.712
84.793
85.105
85.132
85.164

1.500
0.936

84.468
85.032

85.968
(85.576)

0.000
1.799

Q=10

0.24
0.90

225
RCRRJ Class 4

1.00%

64.000

85.029
85.068
85.470
85.516
85.545

1.522
0.964

84.841
85.399

86.363
(84.962)

0.000
2.350
3.703

Q=10

0.25
0.91

225
RCRRJ Class 4

1.00%

64.000

85.029
85.068
85.489
85.519
85.549

1.522
0.945

84.841
85.418

86.363
(84.962)

0.000
2.006

Q=6

0.06
1.18

375
RCRRJ Class 2

3.71%

64.000

83.582
83.586
83.706
84.034

1.687
1.466

83.451
83.671

85.137
(86.364)

0.000
8.304

Q=4

0.09
0.86

225
RCRRJ Class 4

2.00%

64.000

84.034
84.703
84.753
84.756

1.542
0.854

83.979
84.667

85.521
(86.490)

0.000
1.905

Q=29

0.18
2.21

450
RCRRJ Class 2

6.29%

65.000

82.756
82.813
82.805
83.162
83.170
83.584

1.727
1.700

82.400
82.427

84.128
(85.876)

0.000
9.837

Q=0

0.00
0.00

375
RCRRJ Class 2

11.63%

65.000

88.165
88.165
88.165
88.165
88.165
88.165

2.858

88.165

91.024
(89.584)

4.9237

STORMWATER LINE

B-8a

B-8b

B-9a

B-9b

C

C-1a

D

FOR APPROVAL
NOT FOR CONSTRUCTION

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1) AS SHOWN	Design Drawn Dsg Verifier Dwg Check	JD JD JM JM	26.02.12 26.02.12 26.02.12 26.02.12	Approved For Issue* Date
1/2 SHOWN	* Refer to Revision A for Original Signature			

Client:
**CANNON POINT
DEVELOPMENT LTD**

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
**STORMWATER LONGSECTION
SHEET 6
STAGE 3**

Discipline CIVIL	Vecta Ref. No. 26014	Drawing No. C316	Rev. C
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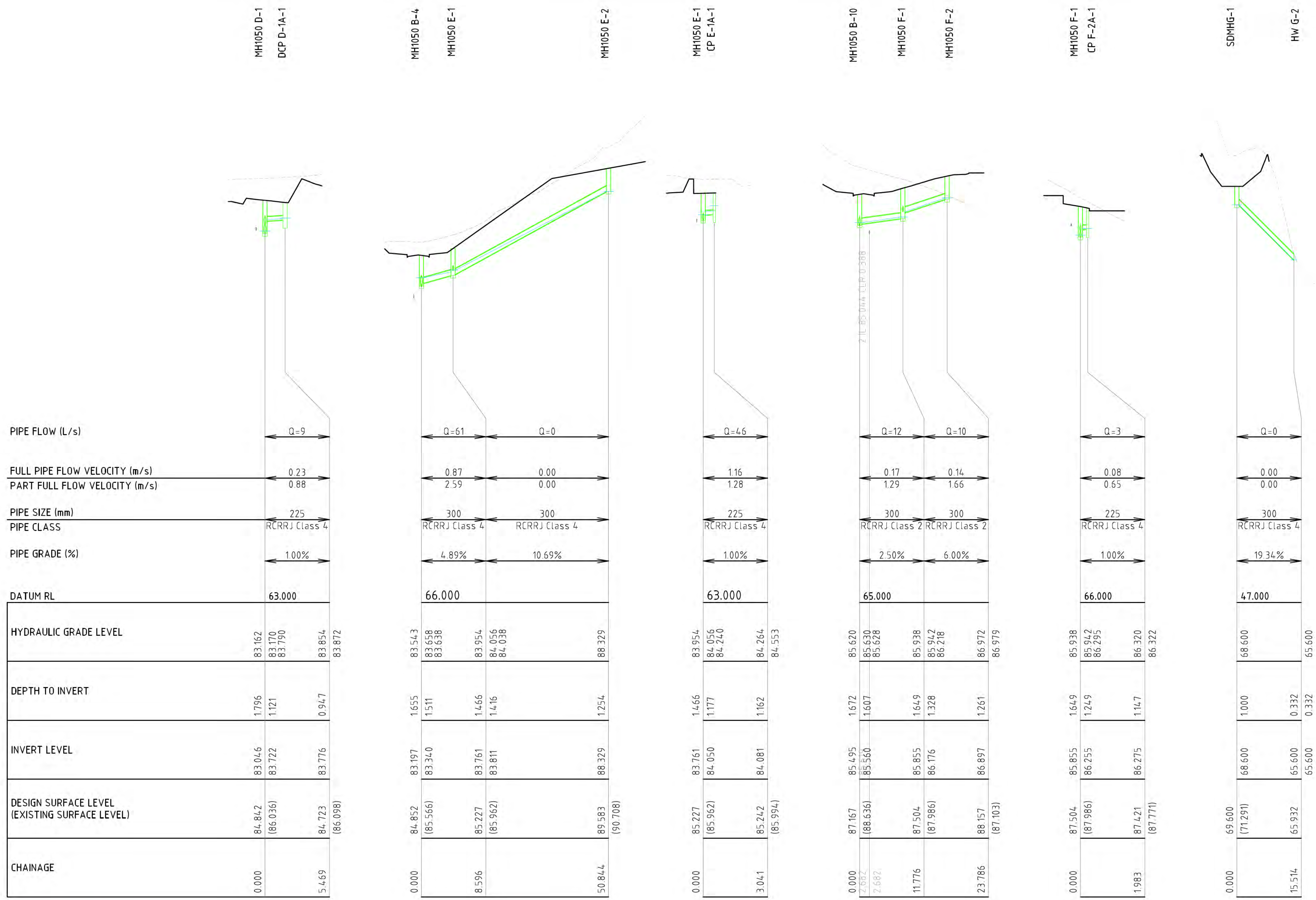
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Drawing Plotted: 19 May 2026 1:55 pm

0 20 40 60 80 100
A1 REPRODUCTION SCALE
0 10 20 30 40 50 60 70 80 90 100
A3 REPRODUCTION SCALE
1 SCALE 1:100
0 2 4 6 8 10 12 14 16 18 20
1 SCALE 1:500



STORMWATER LINE

D-1a

E

E-1a

F

F-2a

G

FOR APPROVAL
NOT FOR CONSTRUCTION

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	JD	26.02.12	
Reduced Scale (A3)	Disg Verifier	JM	26.02.12	
1/2 SHOWN	Dwg Check	JM	26.02.12	
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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **STORMWATER LONGSECTION
SHEET 7
STAGE 3**

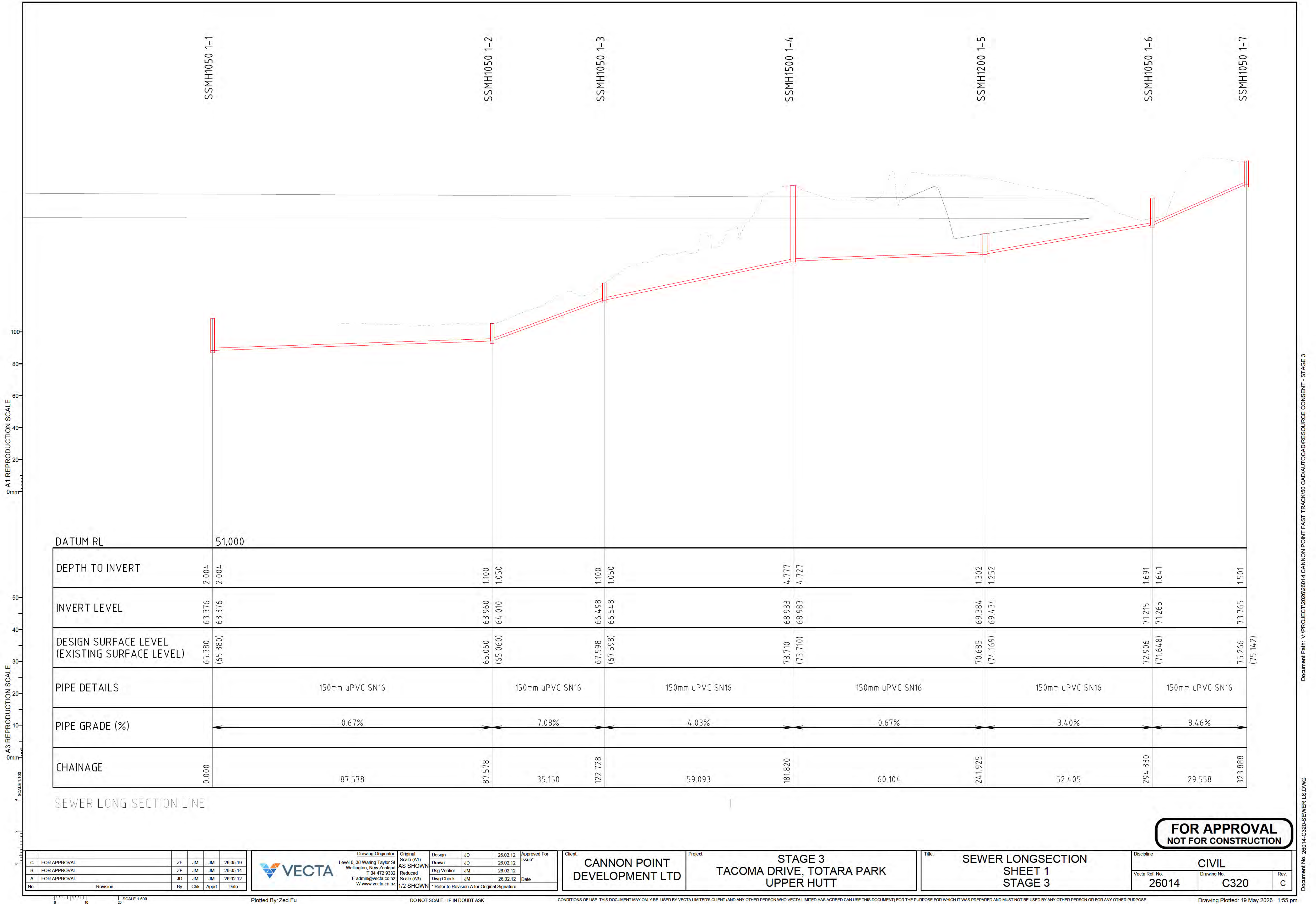
Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C317
		Rev	C

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Drawing Plotted: 19 May 2026 1:50 pm



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)

AS SHOWN

Reduced Scale (A3)

1/2 SHOWN

Design	JD	26.02.12	Approved For Issue*
Drawn	JD	26.02.12	
Disg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	
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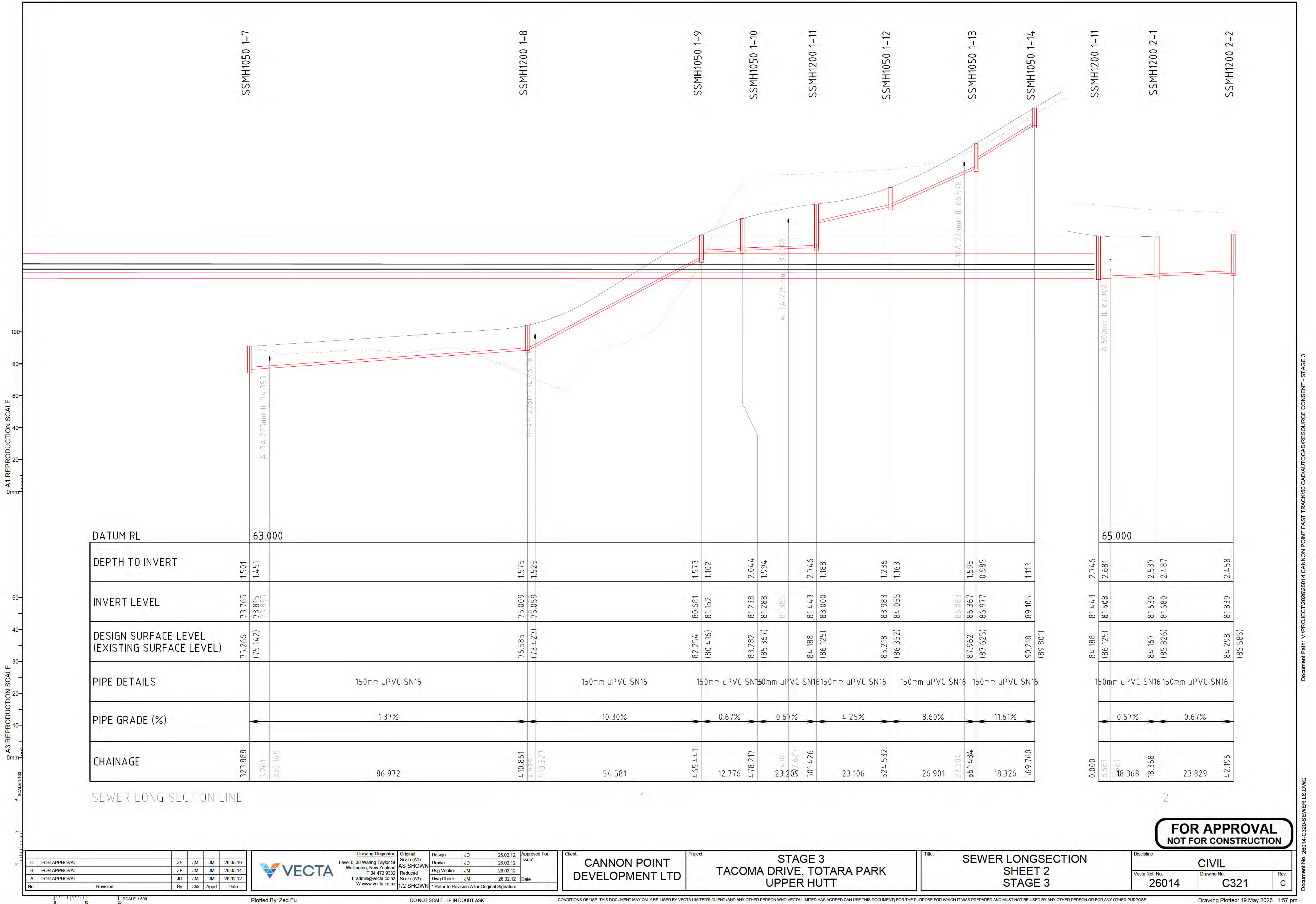
Client: CANNON POINT DEVELOPMENT LTD

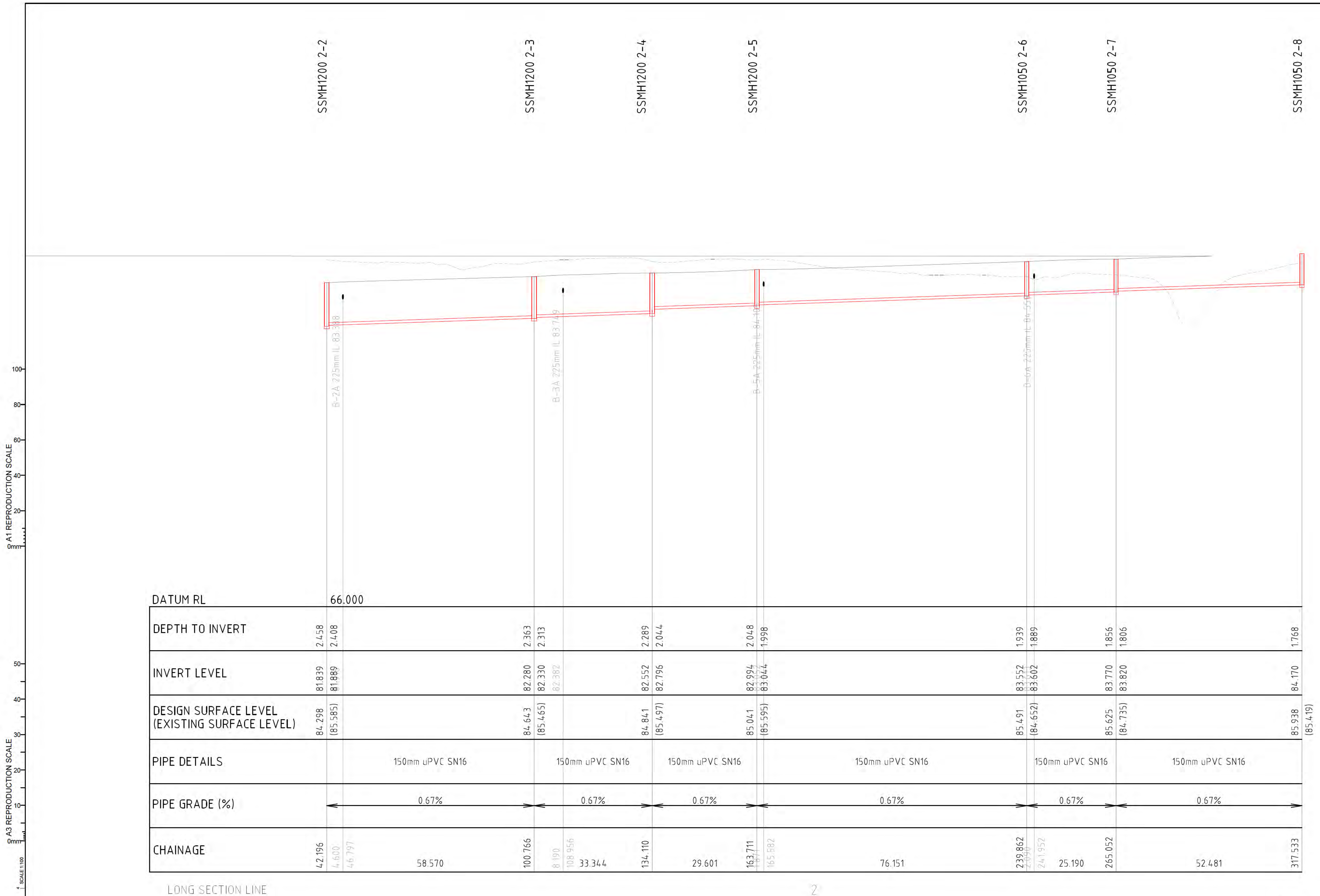
Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title: SEWER LONGSECTION SHEET 1 STAGE 3

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C320
Rev	C

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	JD	26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	
1/2 SHOWN	Dwg Check	JM	26.02.12	
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Client: CANNON POINT
DEVELOPMENT LTD

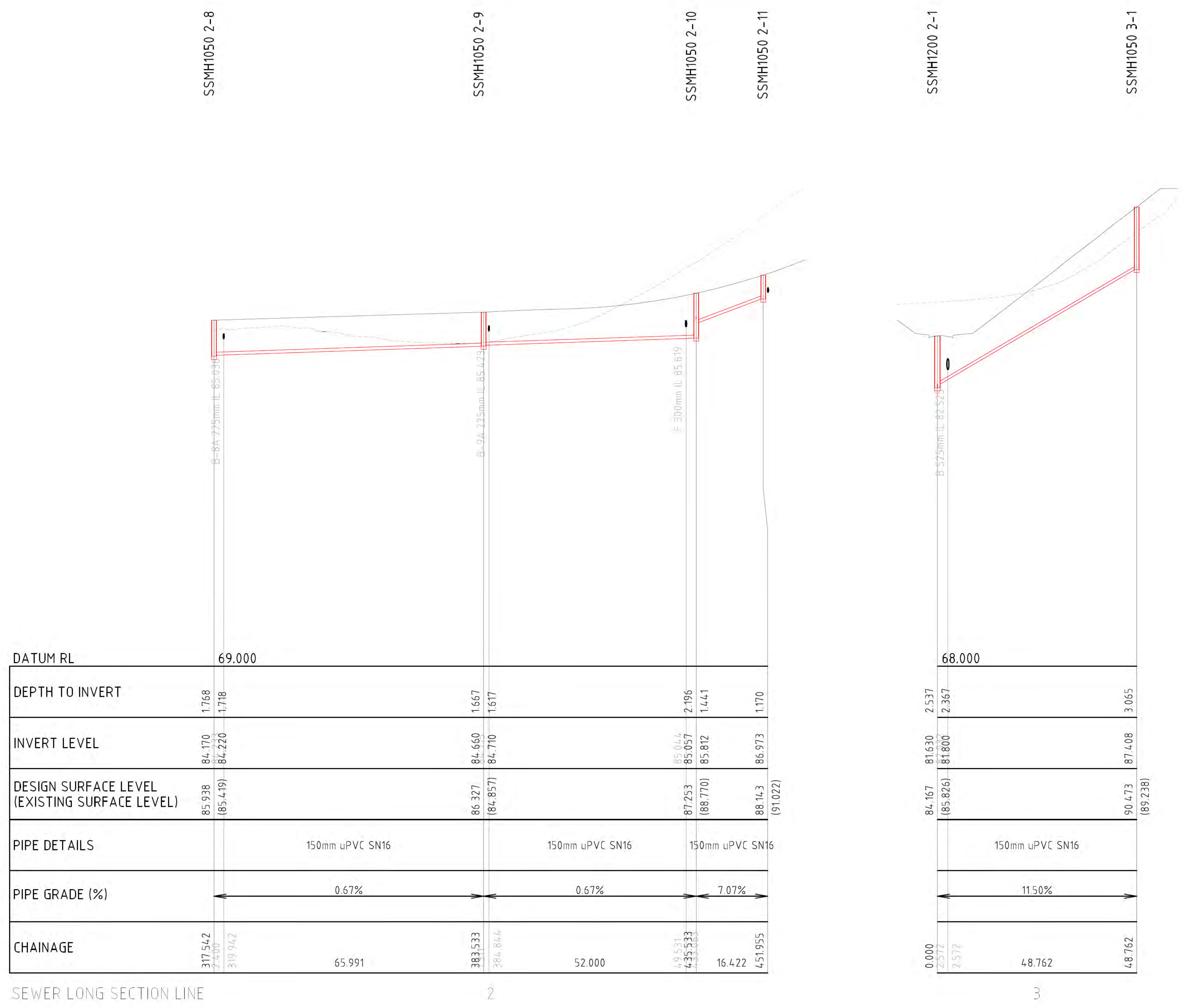
Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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Title:	SEWER LONGSECTION SHEET 3 STAGE 3
--------	---

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C322	C

FOR APPROVAL
NOT FOR CONSTRUCTION

0 A1 REPRODUCTION SCALE 0mm 20 40 60 80 100
0 A3 REPRODUCTION SCALE 0mm 10 20 30 40 50
1 SCALE 1:100



0 A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

0 A3 REPRODUCTION SCALE
0mm 10 20 30 40 50 60 70 80 90 100
1 SCALE 1:100

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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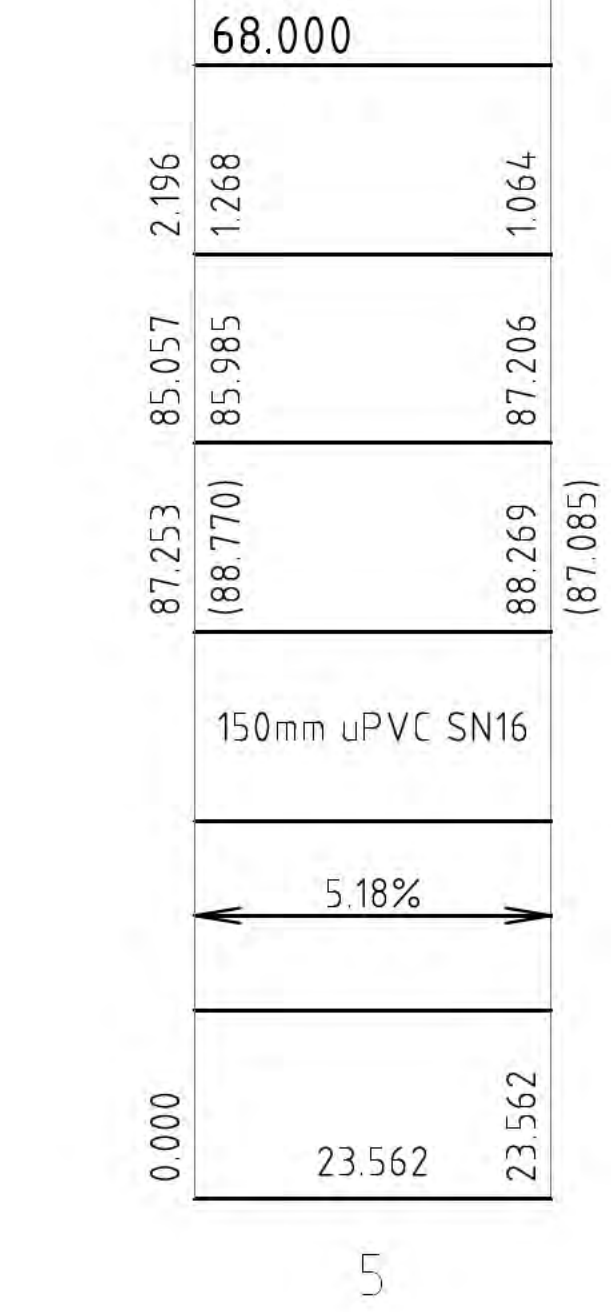
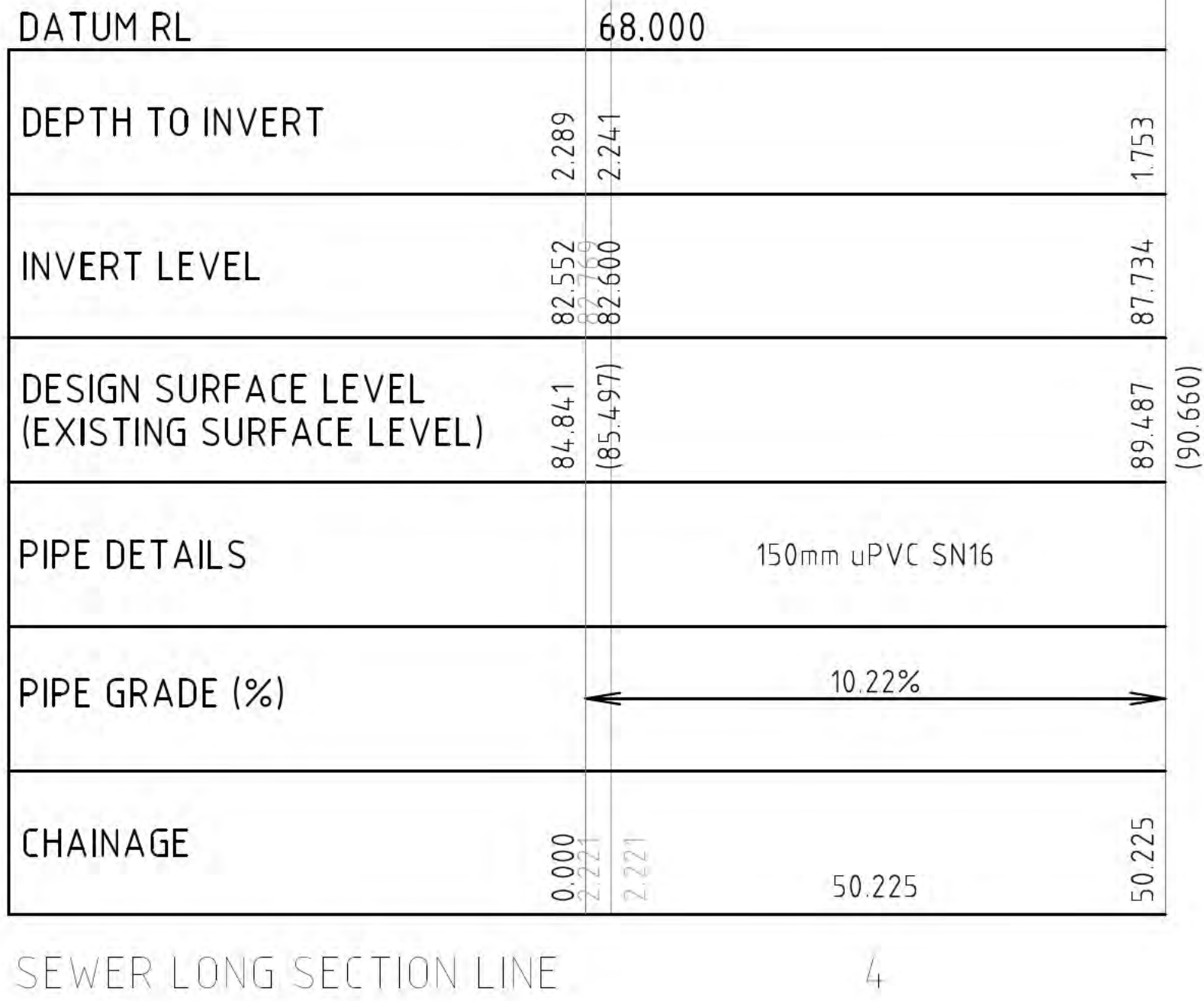
Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	JD	26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	Date
1/2 SHOWN	Dwg Check	JM	26.02.12	
* Refer to Revision A for Original Signature				

Client: CANNON POINT DEVELOPMENT LTD

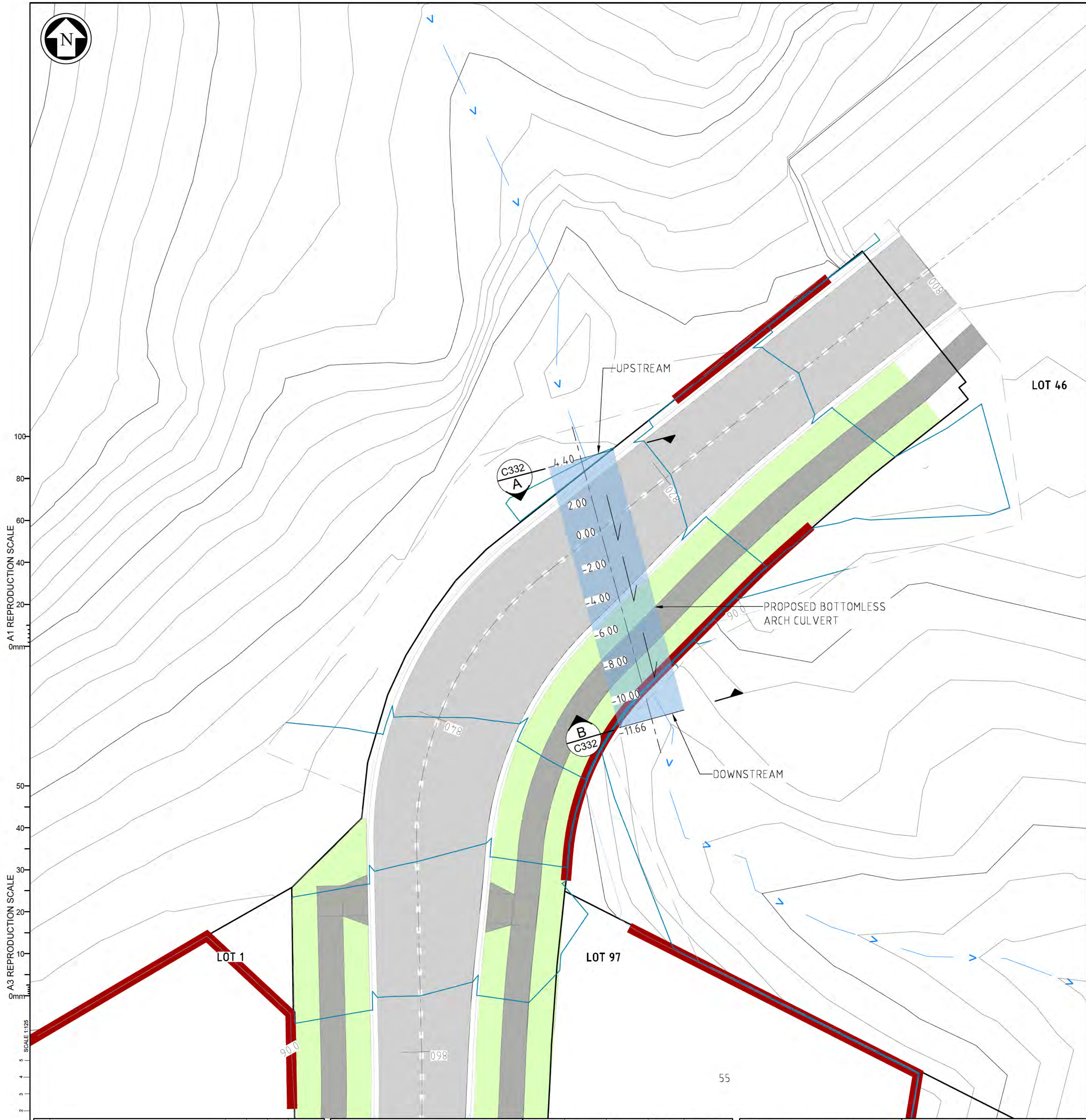
Project: STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title: SEWER LONGSECTION
SHEET 5
STAGE 3

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C324
		Rev	C



FOR APPROVAL
NOT FOR CONSTRUCTION



Datum 90.00

EXISTING SURFACE

92.90

92.94

92.98

DESIGN OFFSET

-2.00

0.00

2.00

UPSTREAM CROSS SECTION

Datum 86.00

EXISTING SURFACE

87.41

87.27

87.91

DESIGN OFFSET

-2.00

0.00

2.00

DOWNSTREAM CROSS SECTION

Datum 85.00

DESIGN HEIGHT

87.27

87.38

87.38

87.38

87.38

87.38

87.38

87.38

EXISTING SURFACE

87.27

87.38

87.38

87.38

87.38

87.38

87.38

87.38

DESIGN OFFSET

-11.66

-9.83

-9.70

-8.01

-8.01

-6.32

-4.63

-4.45

-4.11

-2.60

0.00

91.11

93.33

92.43

92.78

93.25

93.40

93.40

93.40

92.89

92.89

92.94

CULVERT CROSSING - LONGITUDINAL SECTION

FOR APPROVAL
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12

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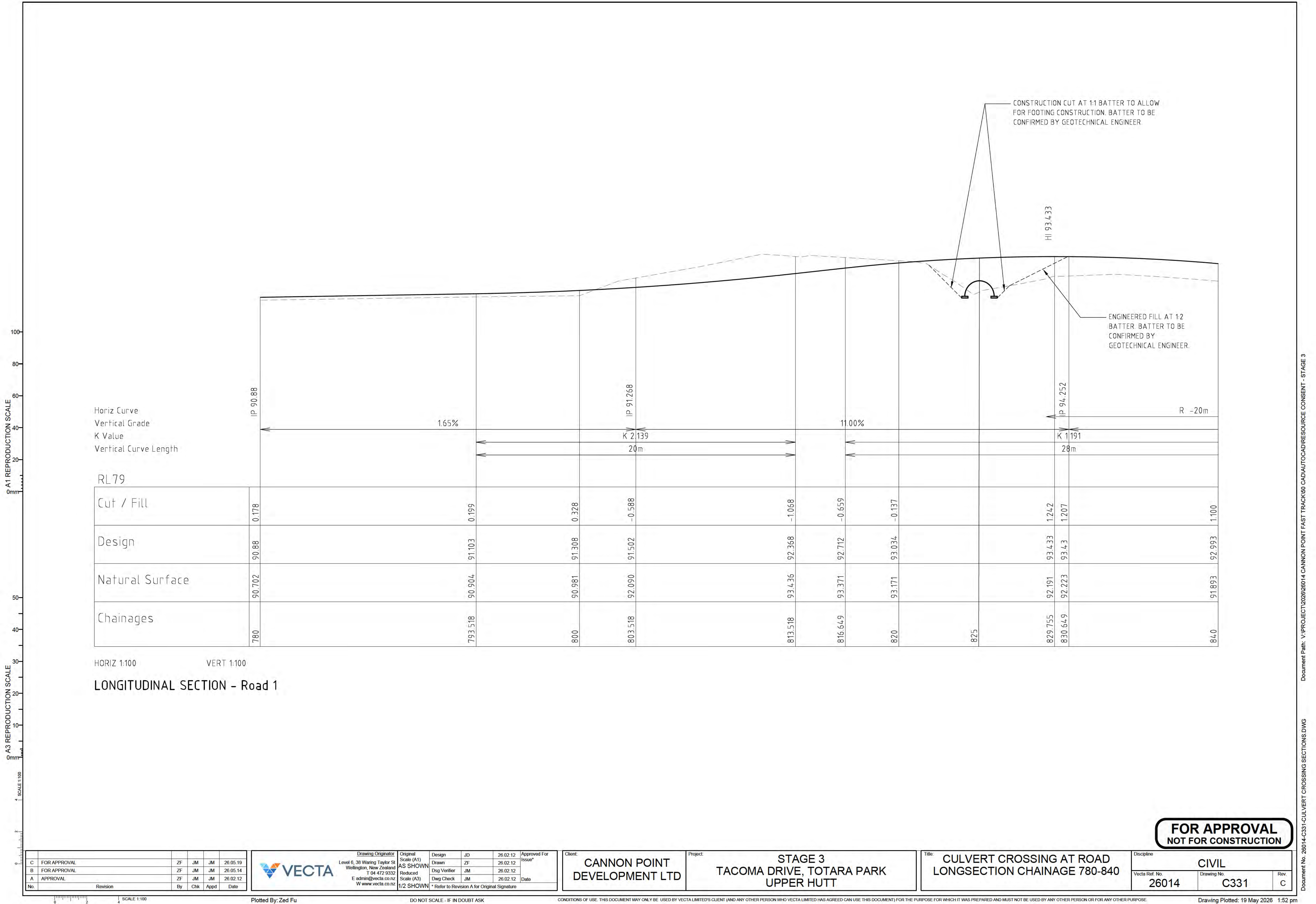
Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	
Date			

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **DRAINAGE CULVERT CROSSING PLAN**

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C330
Rev	C



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	Date
1/2 SHOWN	Dwg Check	JM	26.02.12	
	* Refer to Revision A for Original Signature			

Client: CANNON POINT DEVELOPMENT LTD

Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

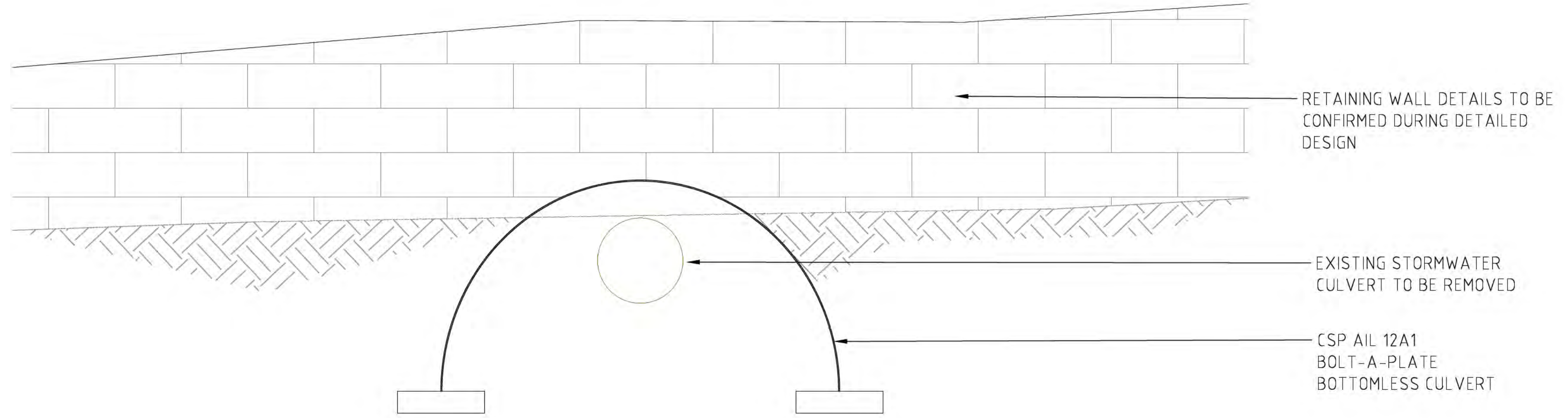
Title: CULVERT CROSSING AT ROAD LONGSECTION CHAINAGE 780-840

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C331
Rev	C

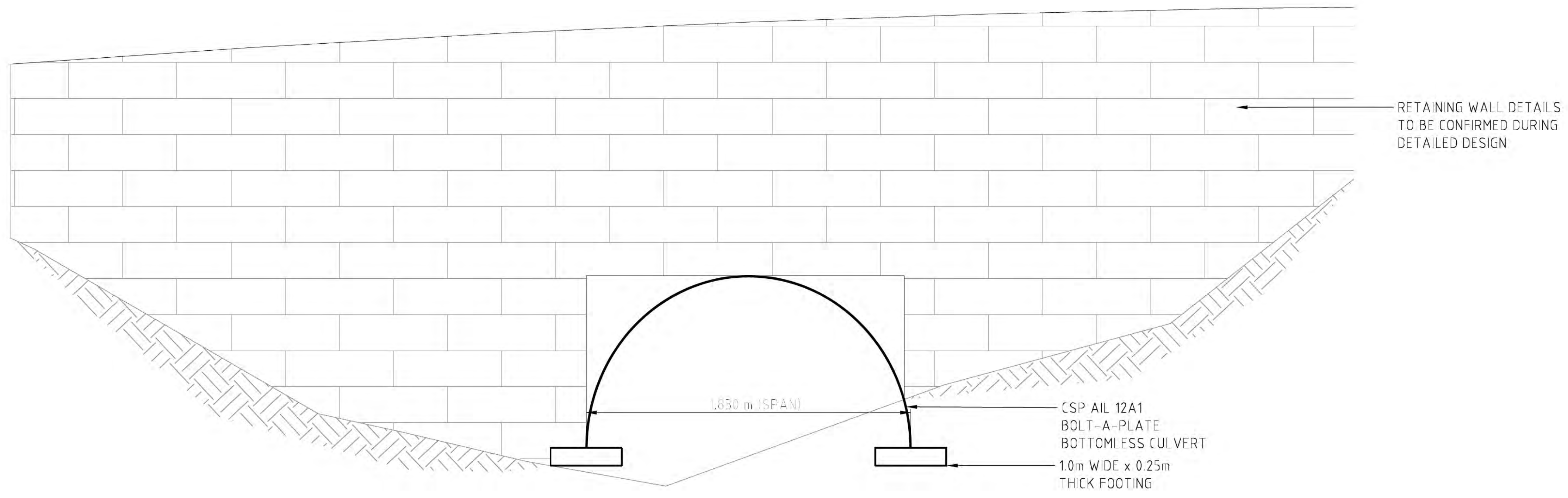
FOR APPROVAL
NOT FOR CONSTRUCTION

A1 REPRODUCTION SCALE
100
80
60
40
20
0mm

A3 REPRODUCTION SCALE
50
40
30
20
10
0mm
SCALE 1:15



UPSTREAM CULVERT CROSS SECTION A DETAILS
SCALE 1:15m
1:15



DOWNSTREAM CULVERT CROSS SECTION B DETAILS
SCALE 1:15m
1:15

- NOTES:
- 1) ALL ARCH DIMENSIONS ARE TO INSIDE CREST OF STEEL.
 - 2) MINIMUM COVER IS FROM NEUTRAL AXIS OF STEEL.
 - 3) CL VEHICLE MINIMUM COVER = 300mm.

FOR APPROVAL
NOT FOR CONSTRUCTION

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12		
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12		
1/2 SHOWN	Dwg Check	JM	26.02.12		
					Date

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

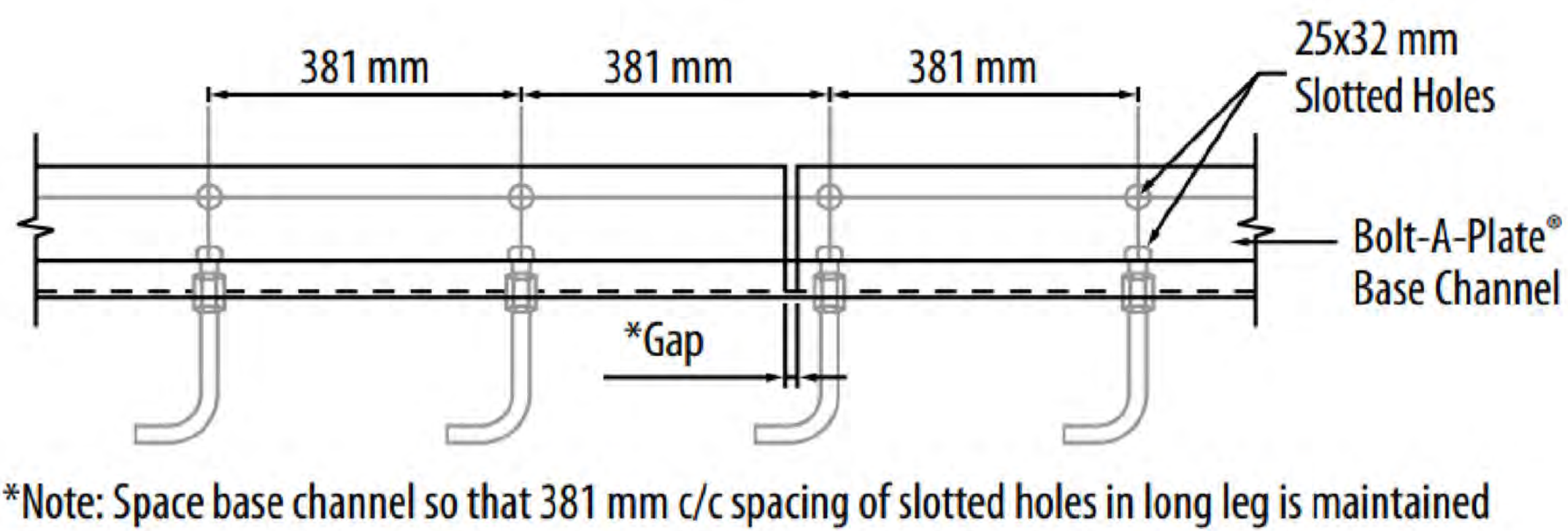
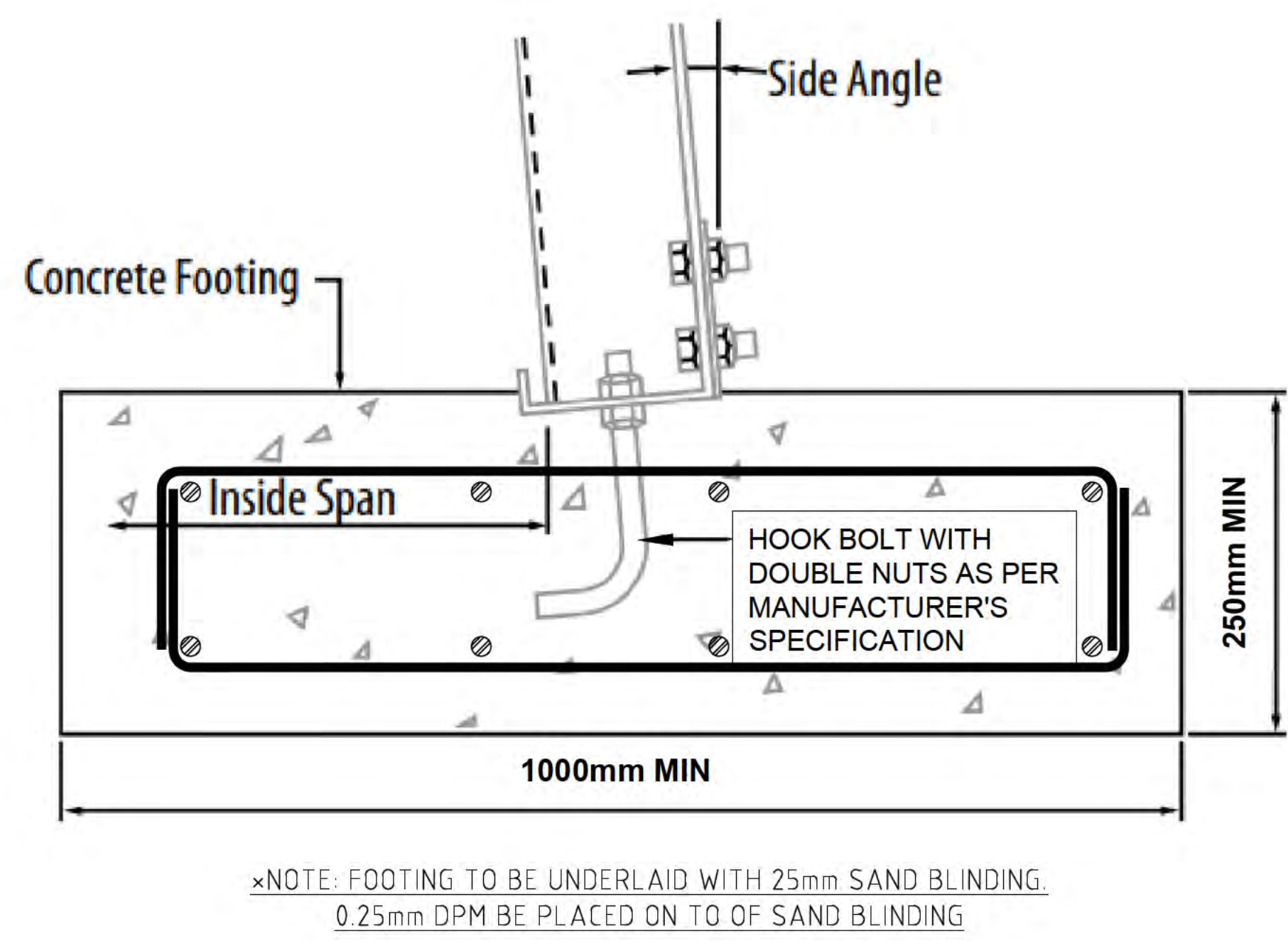
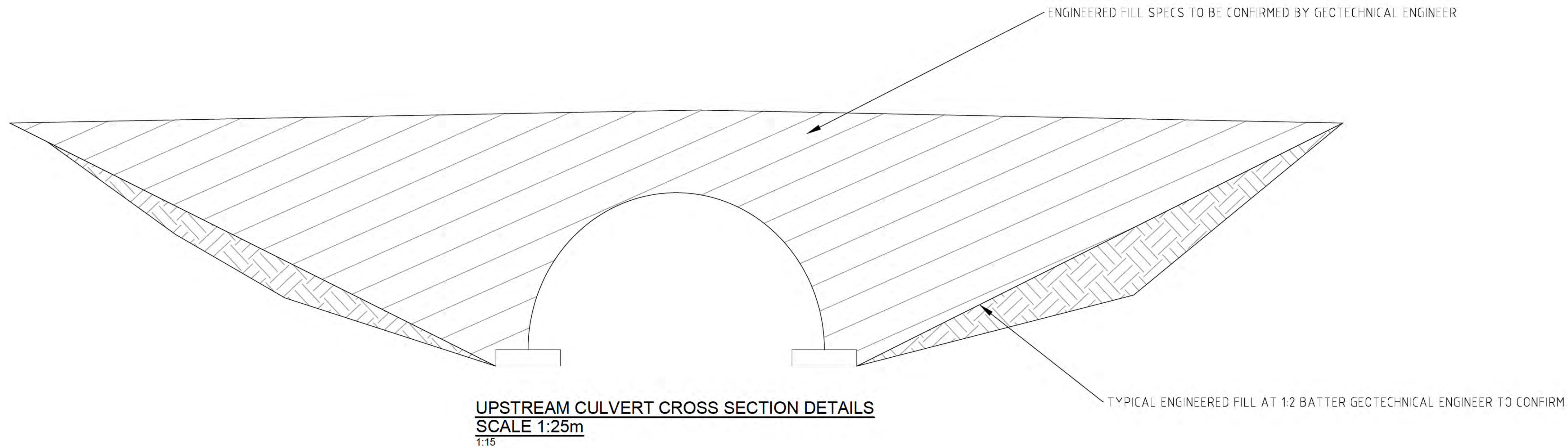
Title: **UPSTREAM AND DOWNSTREAM
CROSS SECTION DETAILS**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C332
		Rev	C

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:15
0.2 0.4 0.6



TYPICAL ARCH CULVERT FOOTING DETAILS
NOT TO SCALE
NTS

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12		
Reduced Scale (A3)	Dwg Check	JM	26.02.12		
1/2 SHOWN	* Refer to Revision A for Original Signature				

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

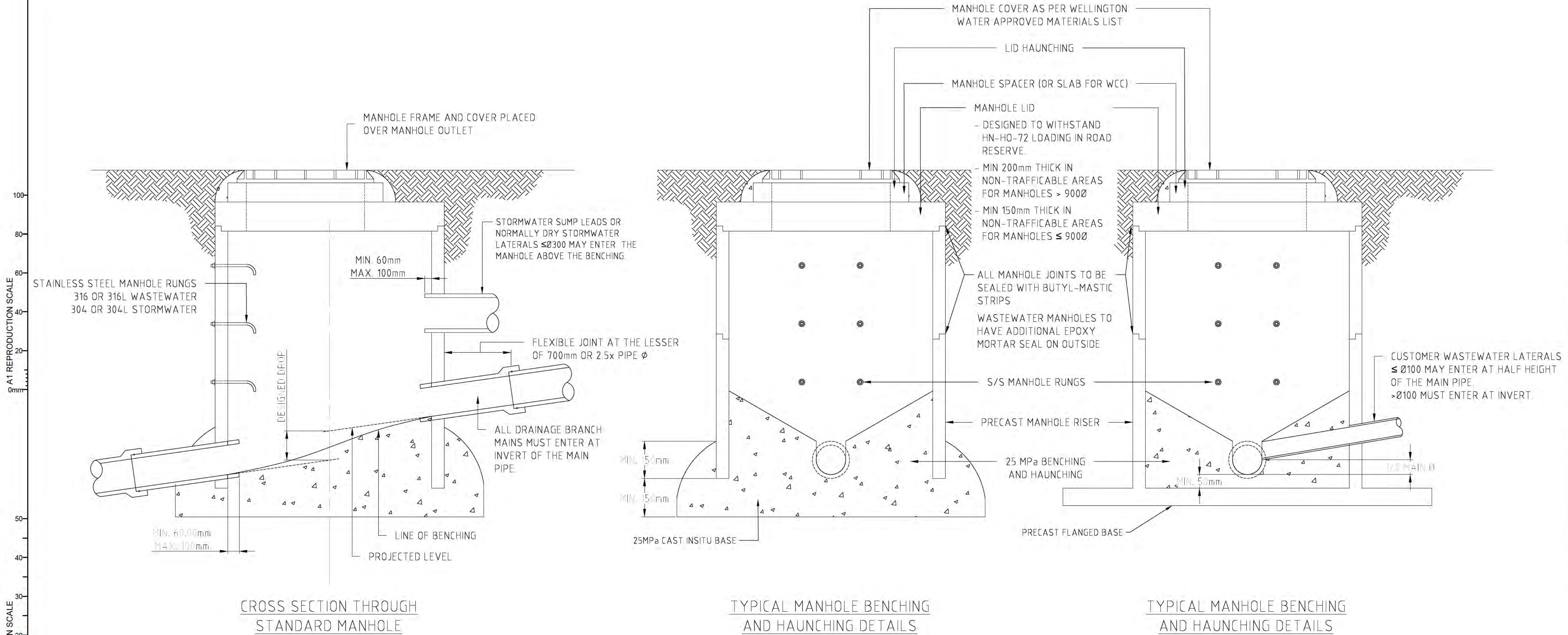
Title: **TYPICAL ARCH CULVERT DETAILS**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C333
		Rev.	C

**FOR APPROVAL
NOT FOR CONSTRUCTION**

NOTES:

1. MANHOLES AND BASES TO BE DESIGNED AGAINST FLOATATION WITH A SAFETY FACTOR OF 1.25 IN AREAS OF HIGH WATER TABLE OR LIQUEFACTION POTENTIAL.
2. MANHOLE BENCHING AND BASE TO BE POURED TO A MINIMUM 150mm BELOW LOWEST PIPE INVERT. THIS INCLUDES MINIMUM DEPTH BETWEEN LOWEST PIPE INVERT AND PRECAST FLANGED BASE.
3. SAFETY GRILLES SHALL BE FITTED INTO MANHOLE ACCESS LID FRAMES FOR ALL NEW MANHOLES THAT ARE 3m OR DEEPER. GRILLES SHALL COMPLY WITH AS3996 CLASS A AND BE CONSTRUCTED FROM STAINLESS STEEL 316L GRADE OR AN APPROVED ALTERNATIVE MATERIAL WITH ADEQUATE STRENGTH AND CORROSION PROPERTIES.



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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AS SHOWN	AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Reduced Scale (A3)	Dwg Check	JM	26.02.12	Date
1/2 SHOWN	1/2 SHOWN				

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT**

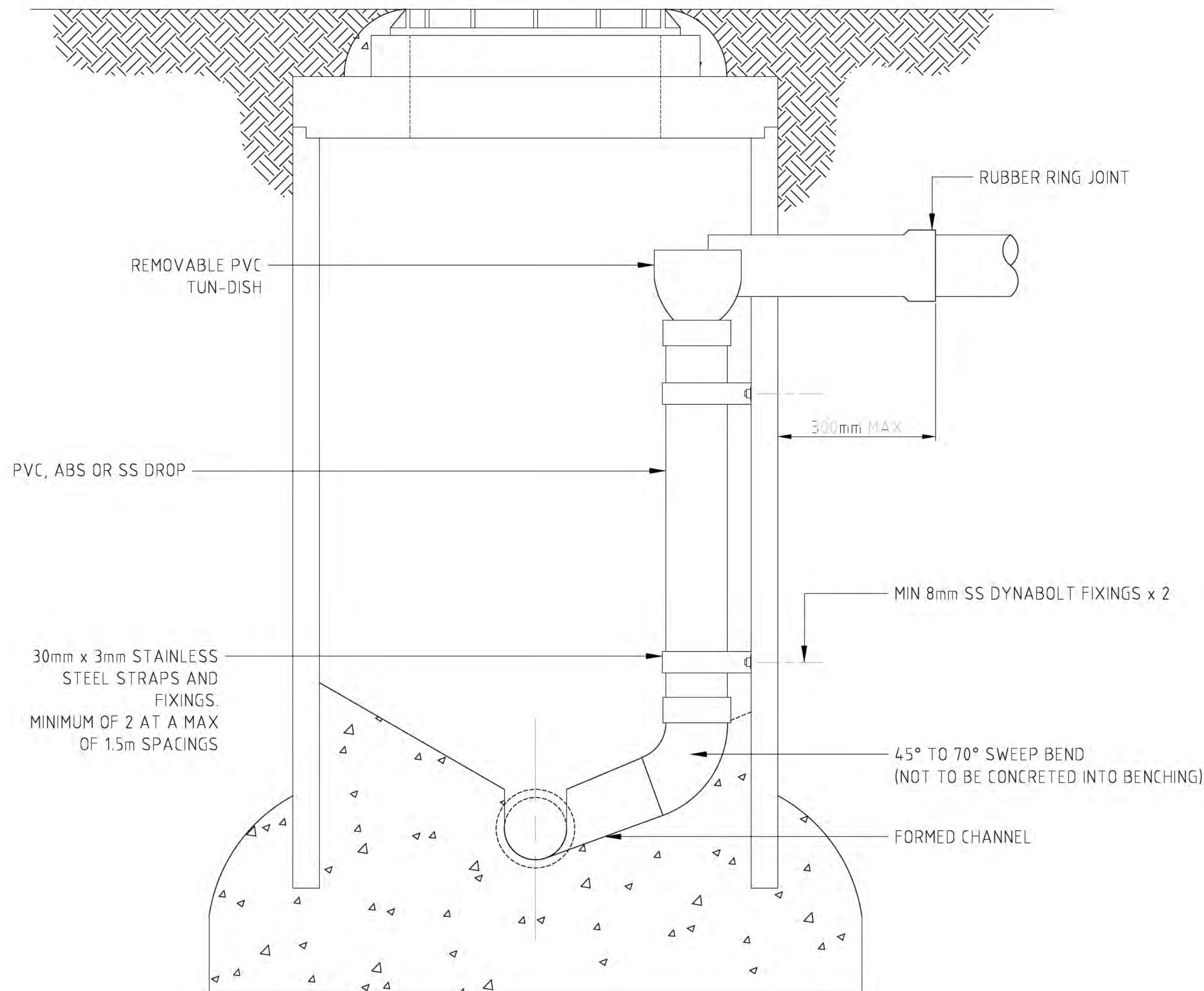
Title: **DRAINAGE DETAILS - SHEET 01**

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C340
Rev	C

FOR APPROVAL
NOT FOR CONSTRUCTION

A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

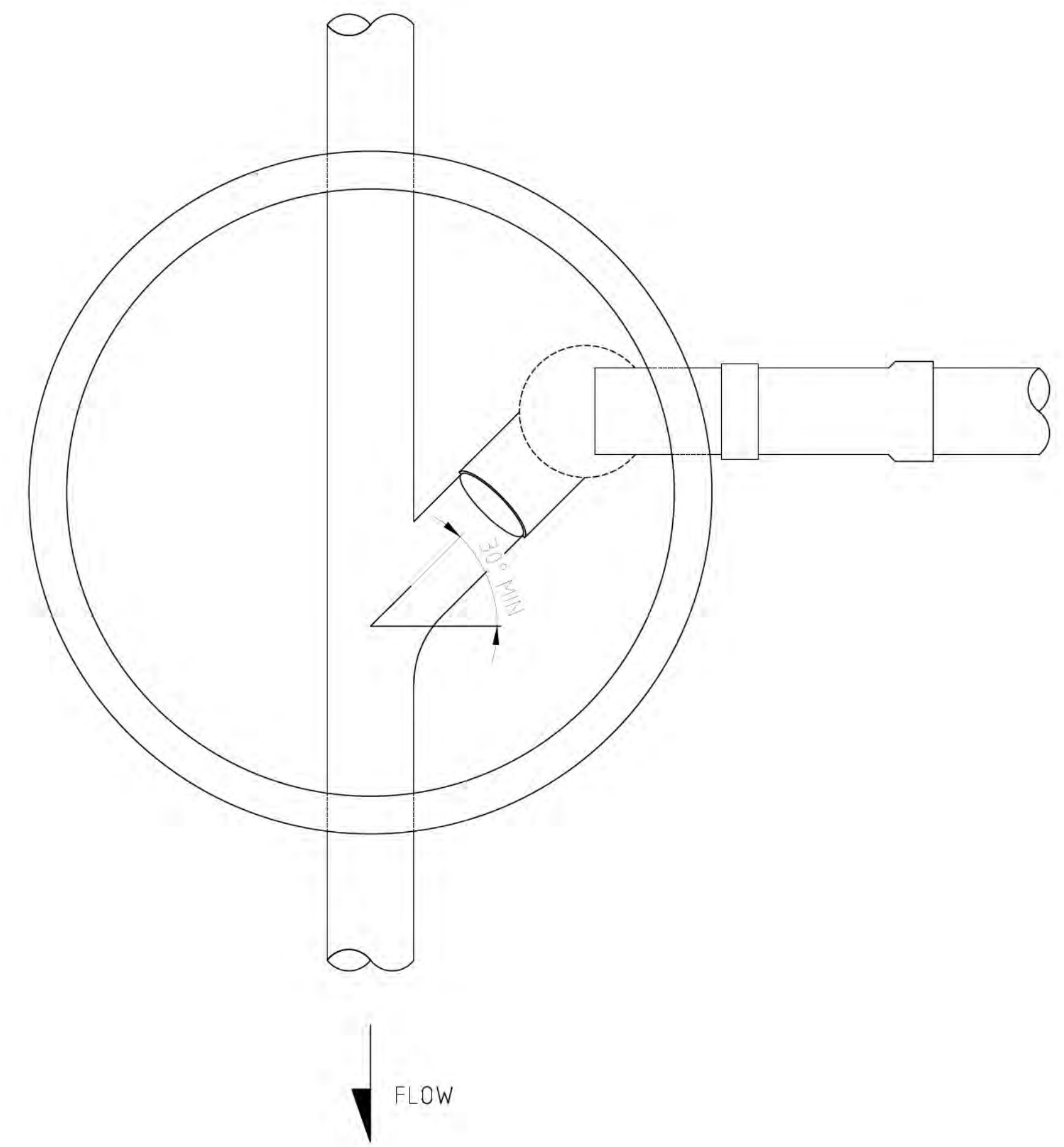
A3 REPRODUCTION SCALE
0mm 10 20 30 40 50



TYPICAL INTERNAL DROP DETAILS

NOTES:

1. MINIMUM INTERNAL CLEARANCE BETWEEN DROP STRUCTURE AND OPPOSITE MANHOLE WALL SHALL BE 1000mm.
2. ALL METALLIC FIXINGS SHALL BE STAINLESS STEEL.
3. INTERNAL DROP SHALL BE FOR A MAXIMUM OF 225Ø.



PLAN VIEW

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12

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Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	
1/2 SHOWN	Dwg Check	JM	26.02.12	

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Client: **CANNON POINT DEVELOPMENT LTD**

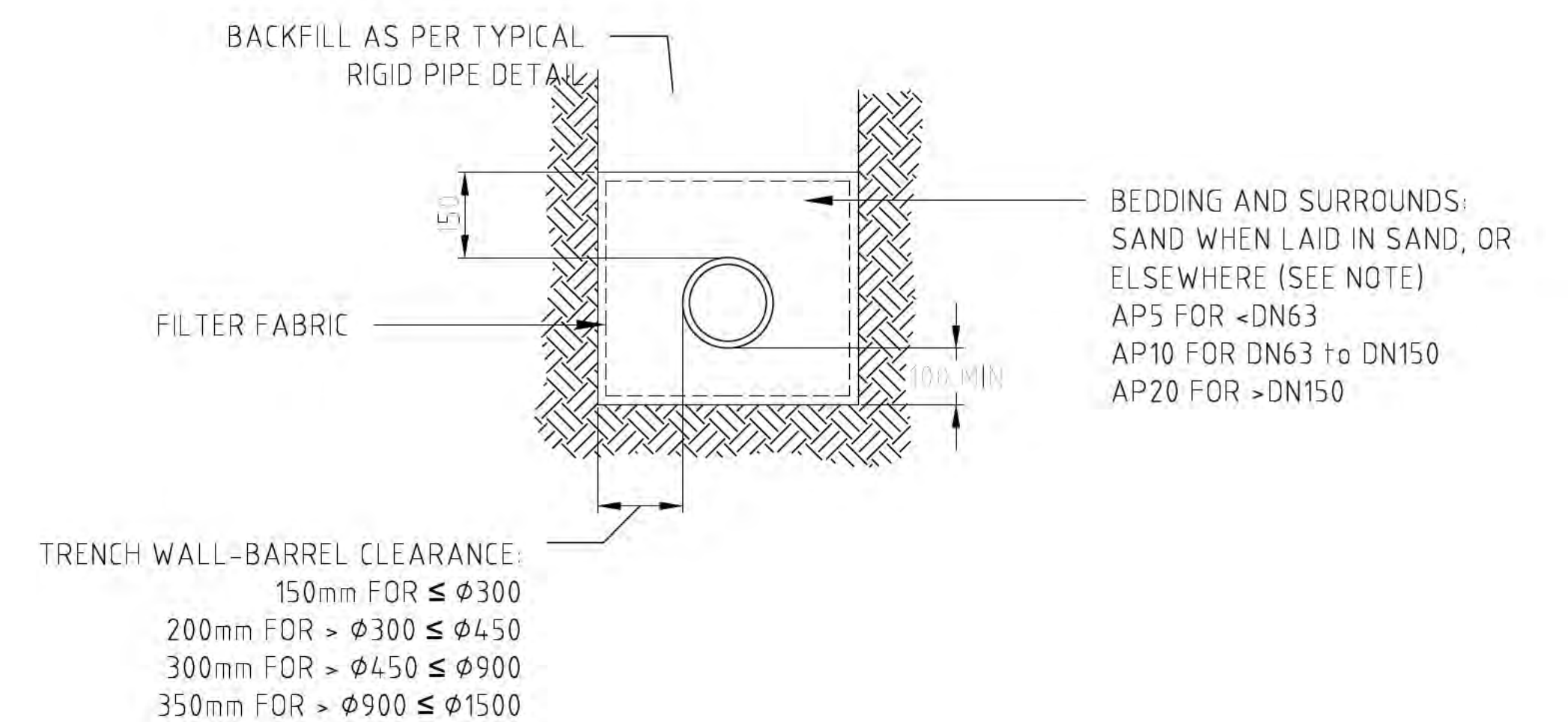
Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **DRAINAGE DETAILS - SHEET 01**

Discipline	Vecta Ref. No.	Drawing No.	Rev
CIVIL	26014	C341	C

**FOR APPROVAL
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1. BACKFILL IS GENERALLY AP40 OR AP65 BUT THIS MAY DIFFER IN CERTAIN AREAS IN ACCORDANCE WITH RCA OR OTHER REQUIREMENTS.
2. RIGID PIPES INCLUDE: CONCRETE PIPES, EARTHENWARE PIPES.
3. FLEXIBLE PIPES INCLUDE ALL PVC PIPES, ALL POLYETHYLENE PIPES, COPPER, POLYBUTYLENE, CORRUGATED STEEL AND ALUMINIUM PIPES, STEEL AND DUCTILE IRON PIPES.
4. FOR FLEXIBLE PIPES, BEDDING AND SURROUNDS MAY BE SINGLE SIZE AGGREGATE WHERE NECESSARY, FOR EXAMPLE 5-14mm OR 8mm DOWN.



TYPICAL FLEXIBLE PIPE BEDDING AND SURROUNDS DETAIL

FOR APPROVAL
NOT FOR CONSTRUCTION

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	Rv	Chk	Appd	Date



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Original Scale (A1) AS SHOWN Reduced Scale (A3) 1/2 SHOWN	Design	JD	26.02.12	Approved For Issue*
	Drawn	ZF	26.02.12	
	Dsg Verifier	JM	26.02.12	
	Dwg Check	JM	26.02.12	

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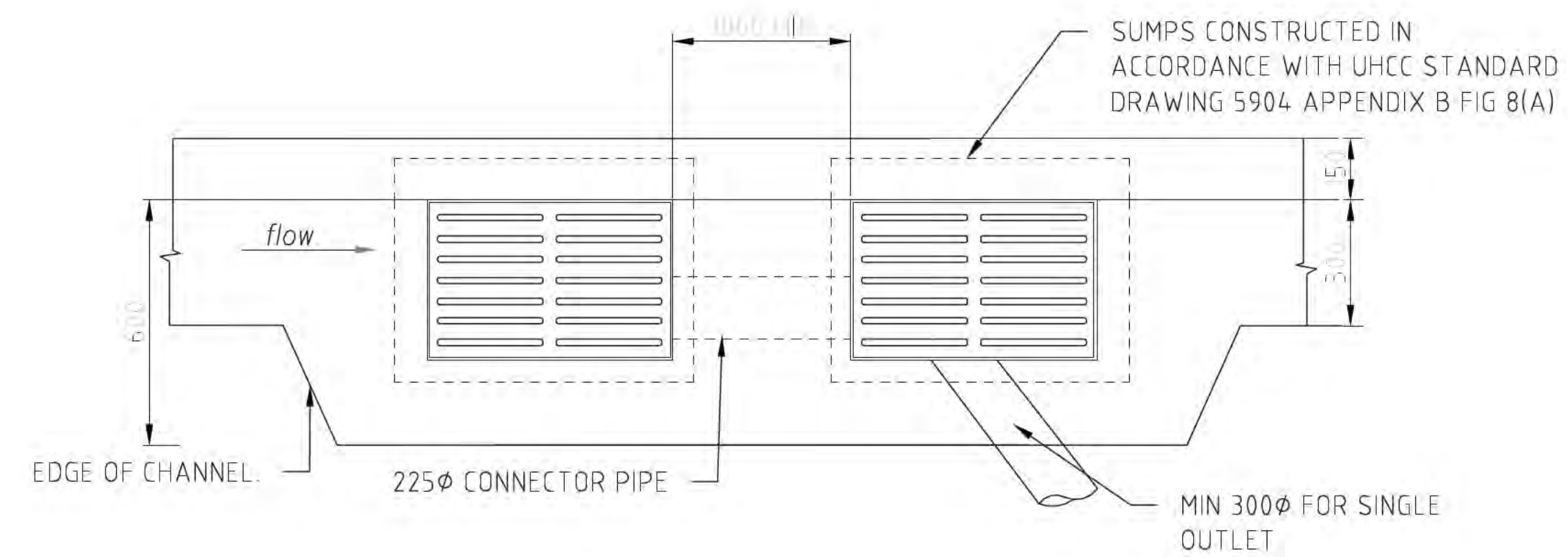
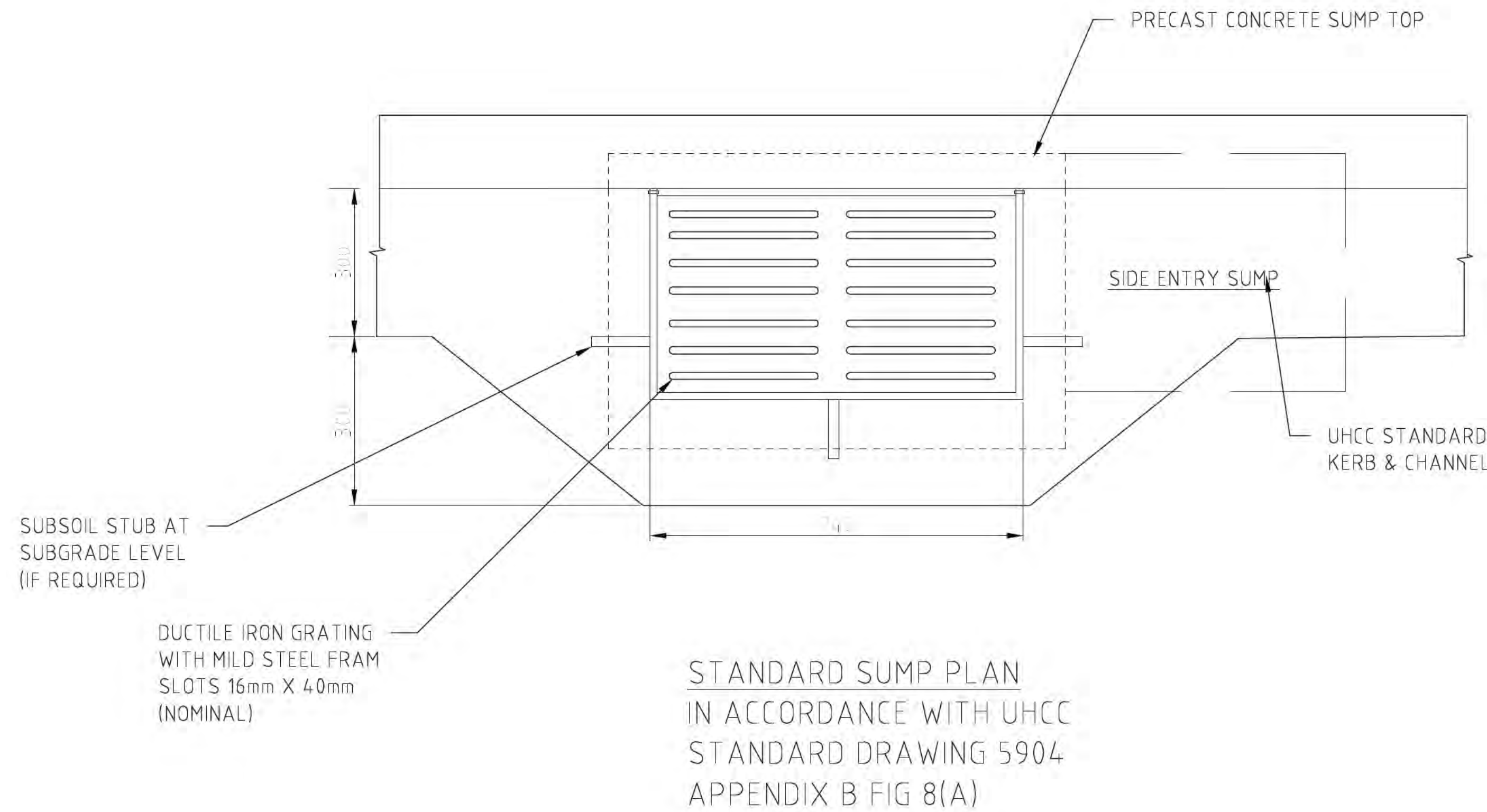
Client: CANNON POINT DEVELOPMENT LTD

Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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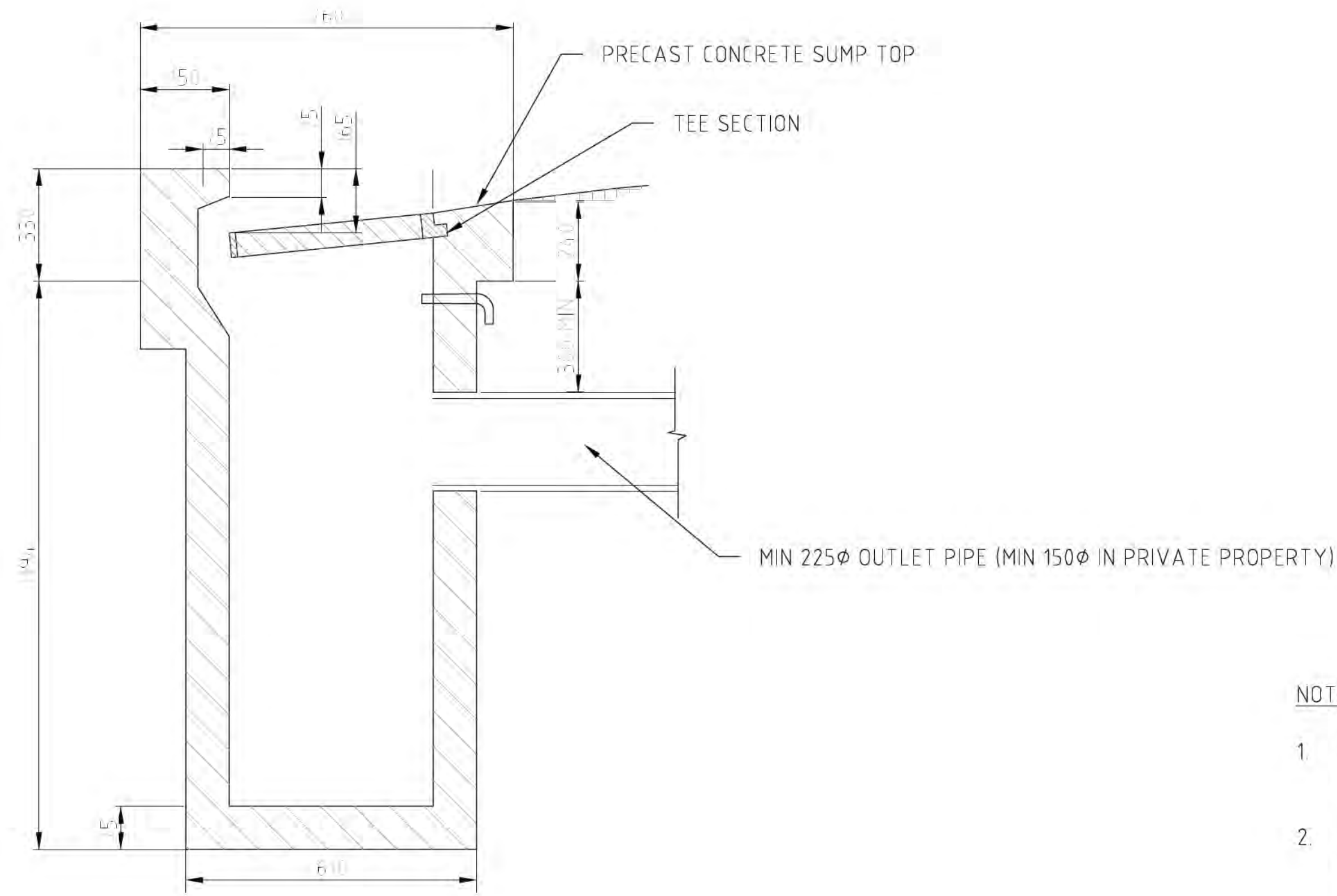
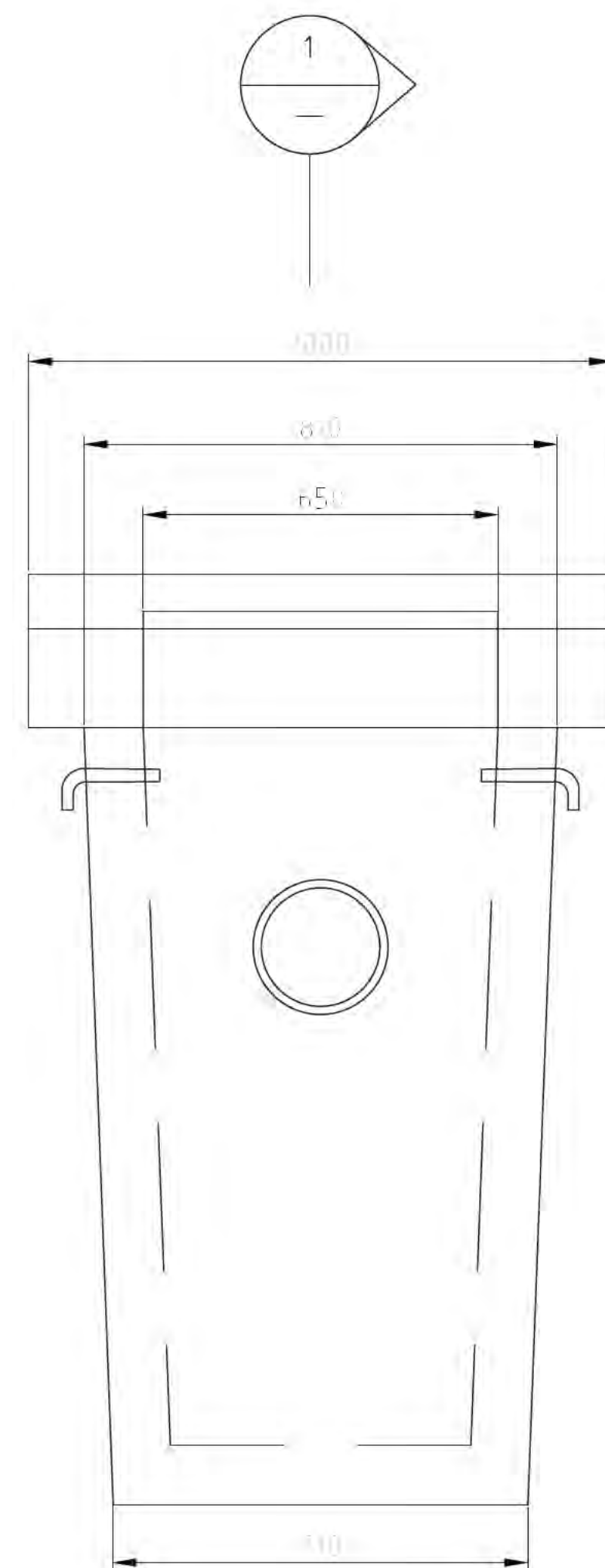
Title: DRAINAGE DETAILS - SHEET 01

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C342	C

100
80
60
40
20
0mm
A1 REPRODUCTION SCALE
50
40
30
20
10
0mm
A3 REPRODUCTION SCALE



DOUBLE STREET SUMP



STANDARD SUMP

NOTES:

1. DOUBLE SUMPS SPACED AT STANDARD INTERVALS ARE REQUIRED ON GRADES IN EXCESS OF 1 IN 20.
2. DOUBLE SUMPS LOCATED IN LOW POINTS SHALL HAVE SEPARATE 225Ø MIN OUTLET PIPES FROM EACH SUMP.

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NOT FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12

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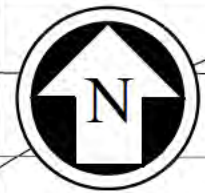
Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Disg Verifier	JM	26.02.12	
1/2 SHOWN	Dwg Check	JM	26.02.12	

Client:	CANNON POINT DEVELOPMENT LTD
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Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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Title:	DRAINAGE DETAILS - SHEET 01
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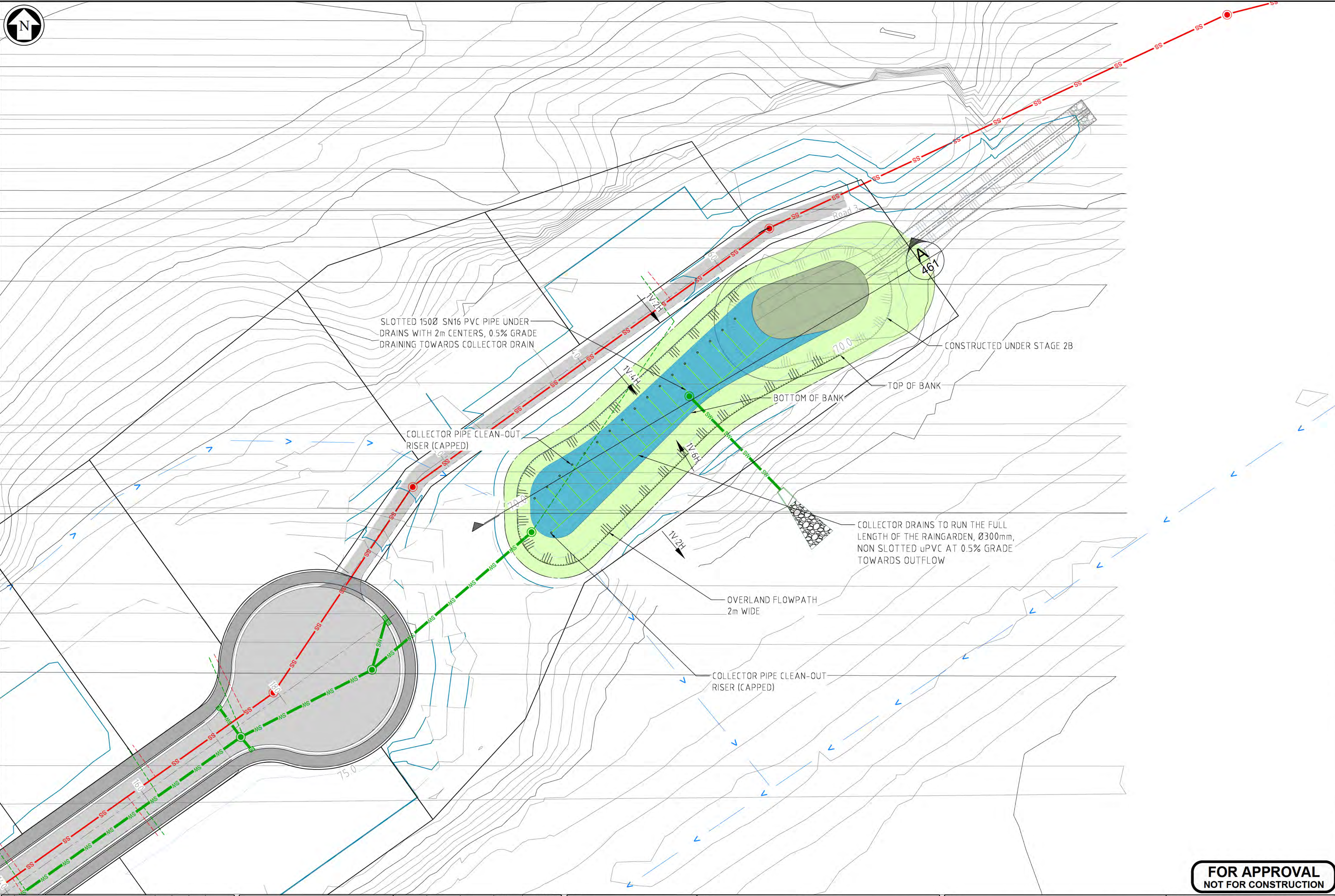
Discipline:	CIVIL
Vecta Ref. No.	26014
Drawing No.	C343
Rev.	C



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

SCALE 1:200



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

VECTA	Drawing Originator Level 6, 38 Waring Taylor St Wellington, New Zealand T 04 472 9332 E admin@vecta.co.nz W www.vecta.co.nz	Original Scale (A1) AS SHOWN Reduced Scale (A3) 1/2 SHOWN	Design Drawn Dsg Verifier Dwg Check	JD ZF JM JM	26.02.12 26.02.12 26.02.12 26.02.12	Approved For Issue* Date
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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TAKOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **RAIN GARDEN DETAILS**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C350
Rev			C

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Plotted By: Zed Fu

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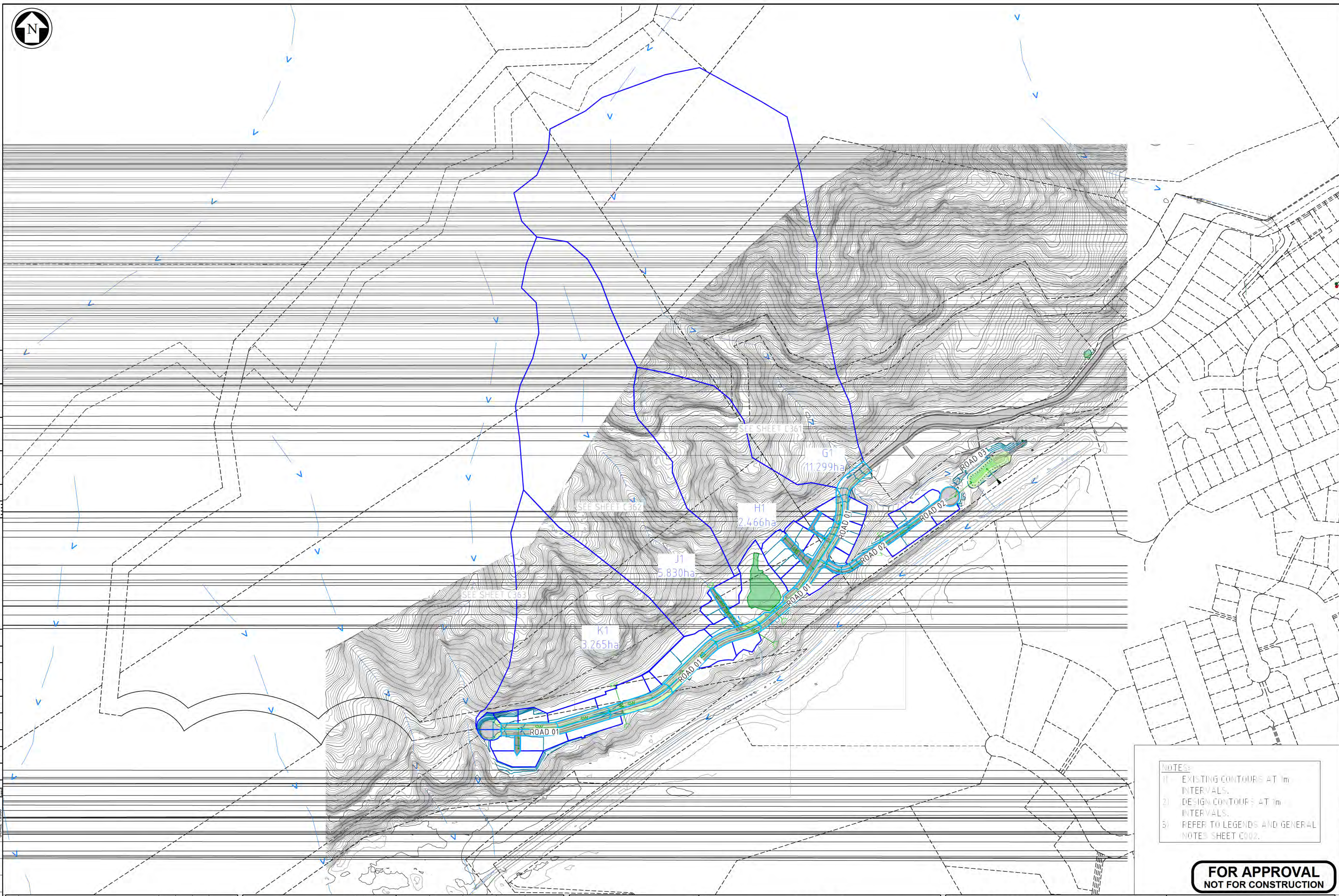
Drawing Plotted: 19 May 2026 2:00 pm



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

1:2000 SCALE
0 20 40 60 80 100



- NOTES:
- 1) EXISTING CONTOURS AT 1m INTERVALS.
 - 2) DESIGN CONTOURS AT 1m INTERVALS.
 - 3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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AS SHOWN	AS SHOWN	Drawn	ZF	26.02.12	Date
Reduced Scale (A3)	Reduced Scale (A3)	Dwg Verifier	JM	26.02.12	Date
1/2 SHOWN	1/2 SHOWN	Dwg Check	JM	26.02.12	Date

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **CATCHMENT PLAN OVERVIEW
STAGE 3**

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C360
Rev	C

Plotted By: Zed Fu

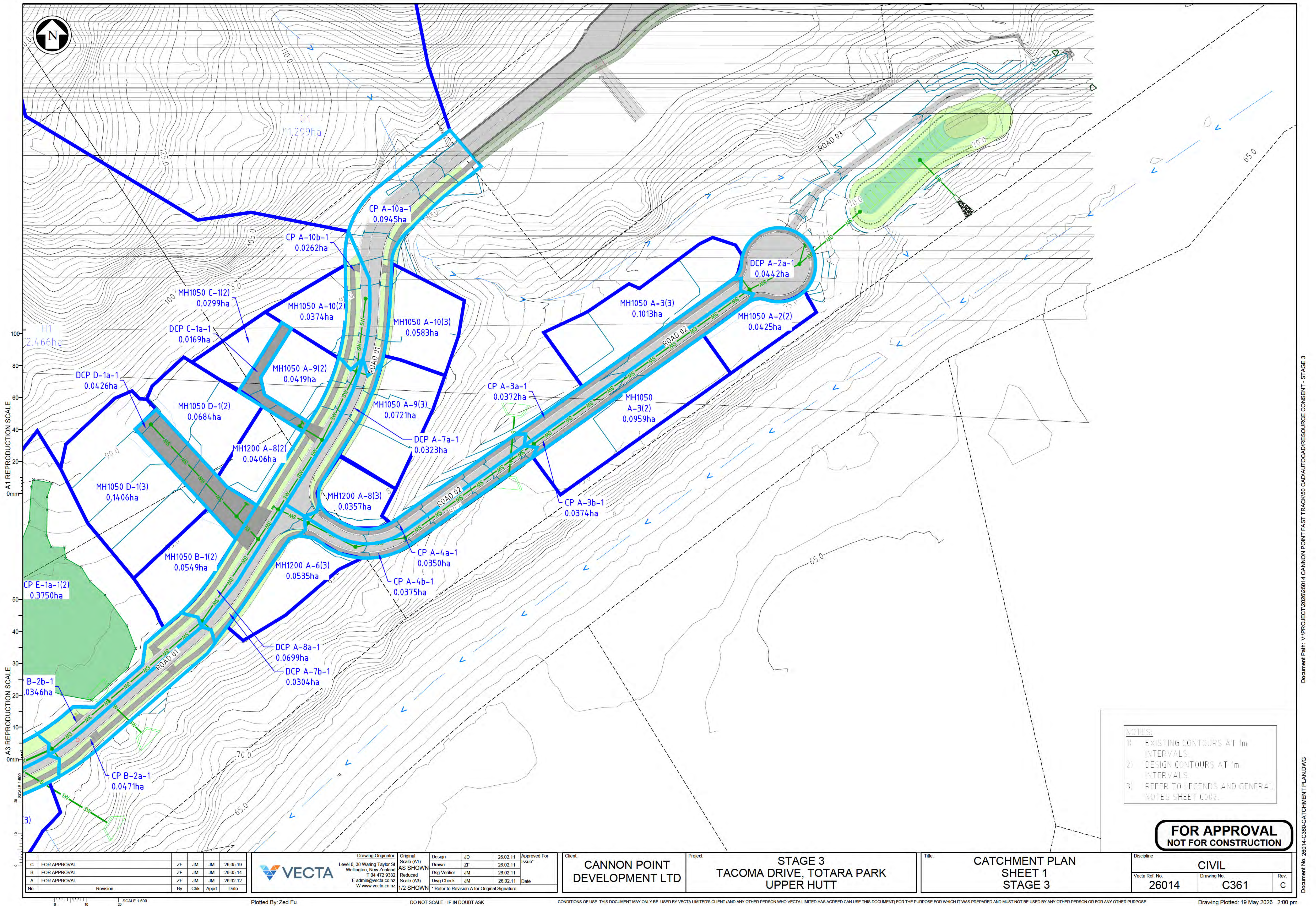
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Document No: 26014-C360-CATCHMENT PLAN.DWG



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

3)

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original
Scale (A1)
AS SHOWN

Design
Drawn
Dsg Verifier
Reduced
Scale (A3)
1/2 SHOWN

JD
ZF
JM
JM

26.02.11
26.02.11
26.02.11
26.02.11

Approved For
Issue*

Date

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Client: **CANNON POINT DEVELOPMENT LTD**

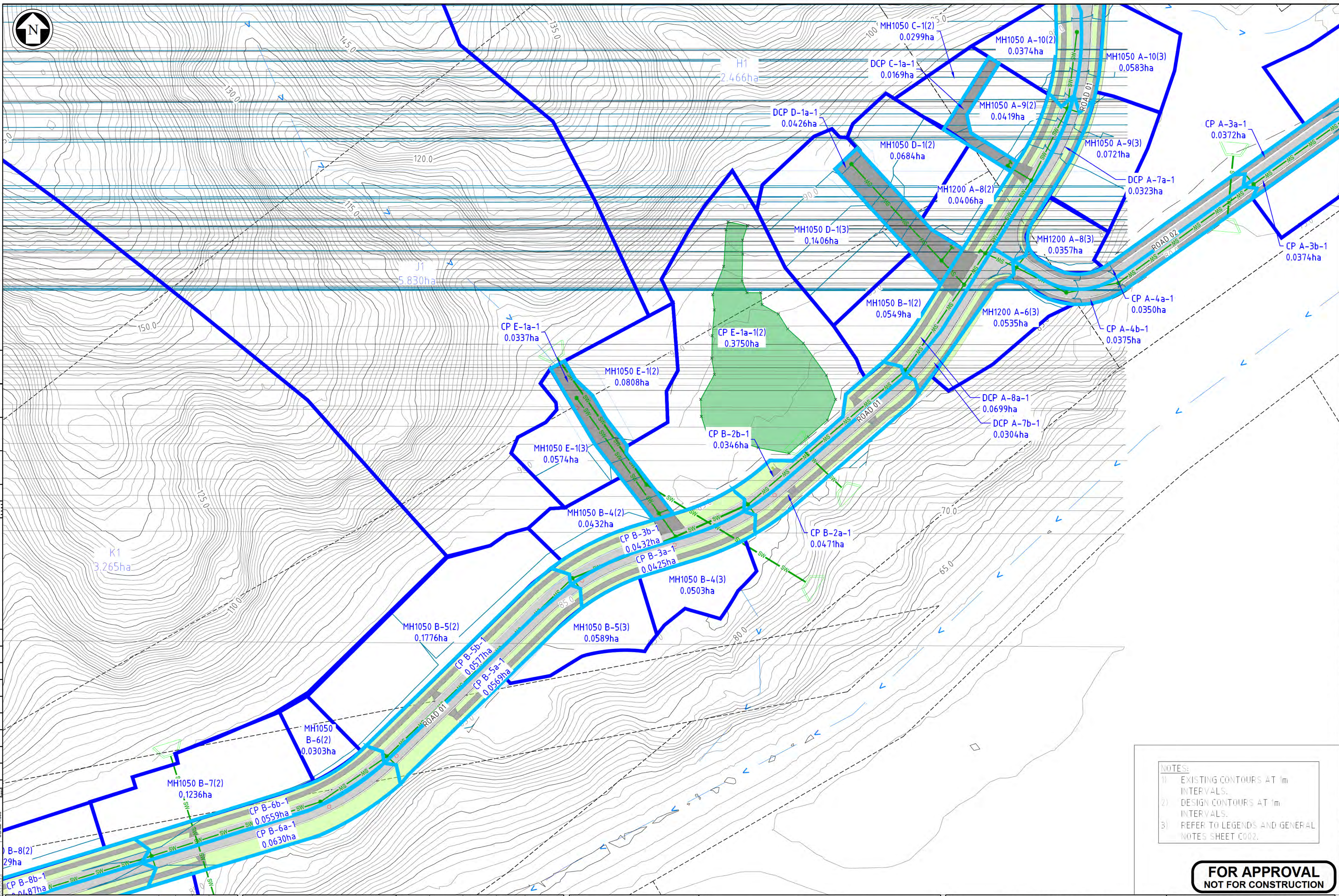
Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **CATCHMENT PLAN
SHEET 1
STAGE 3**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C361
Rev			C

- NOTES:
- 1) EXISTING CONTOURS AT 1m INTERVALS.
 - 2) DESIGN CONTOURS AT 1m INTERVALS.
 - 3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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NOTES:
1) EXISTING CONTOURS AT 1m INTERVALS.
2) DESIGN CONTOURS AT 1m INTERVALS.
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

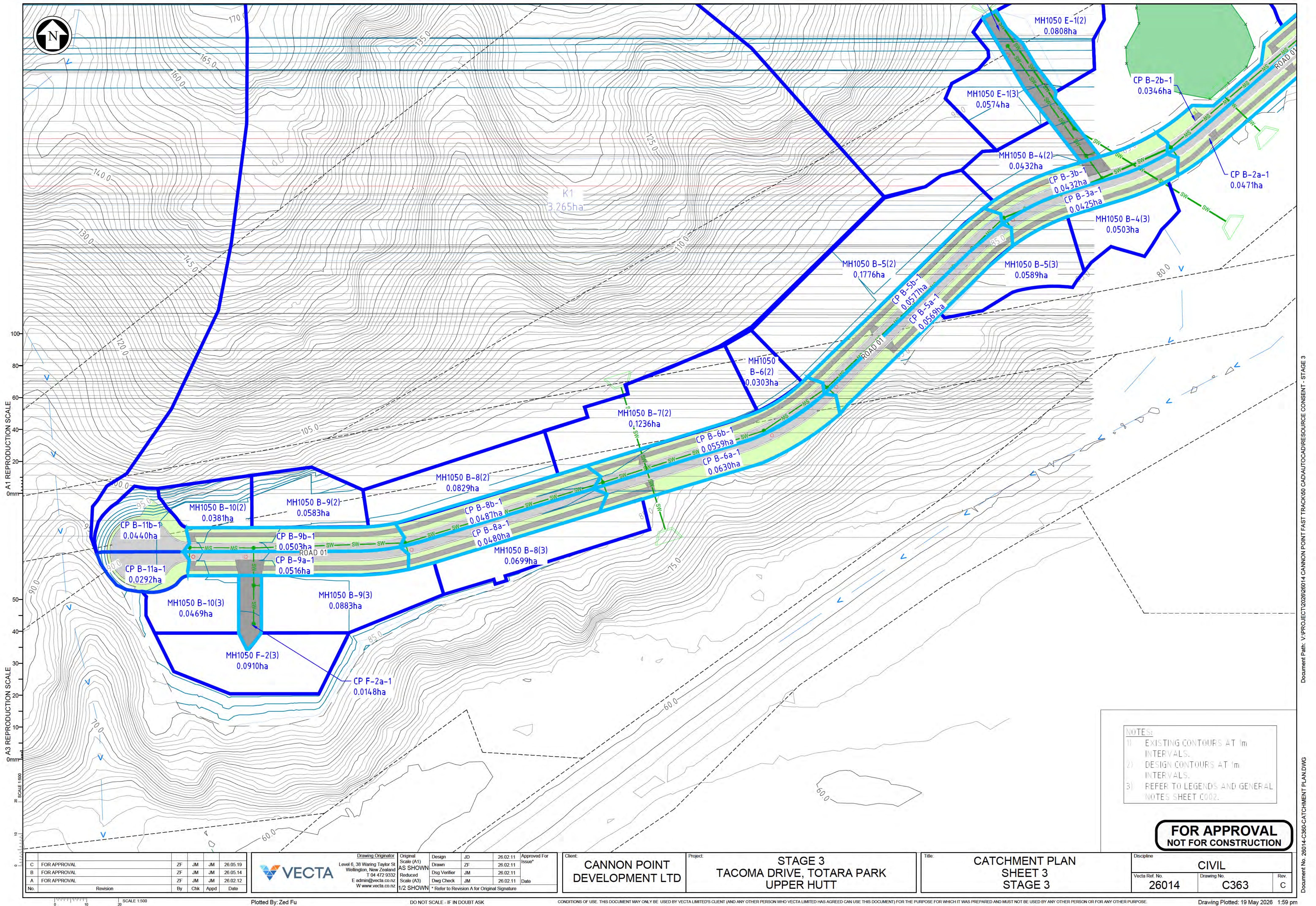
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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **CATCHMENT PLAN
SHEET 2
STAGE 3**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C362
Rev			C



NOTES:
1) EXISTING CONTOURS AT 1m INTERVALS.
2) DESIGN CONTOURS AT 1m INTERVALS.
3) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Reduced Scale (A3)
1/2 SHOWN

Design
Drawn
Disg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.11
26.02.11
26.02.11
26.02.11

Approved For Issue*

Date

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **CATCHMENT PLAN
SHEET 3
STAGE 3**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C363
Rev			C



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

SCALE 1:1250

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Scale (A3)
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Design	JD	26.02.12	Approved For Issue*
Drawn	JD	26.02.12	Date
Disg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	

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Client:
**CANNON POINT
DEVELOPMENT LTD**

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
WATER PLAN OVERVIEW

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C400
		Rev	C

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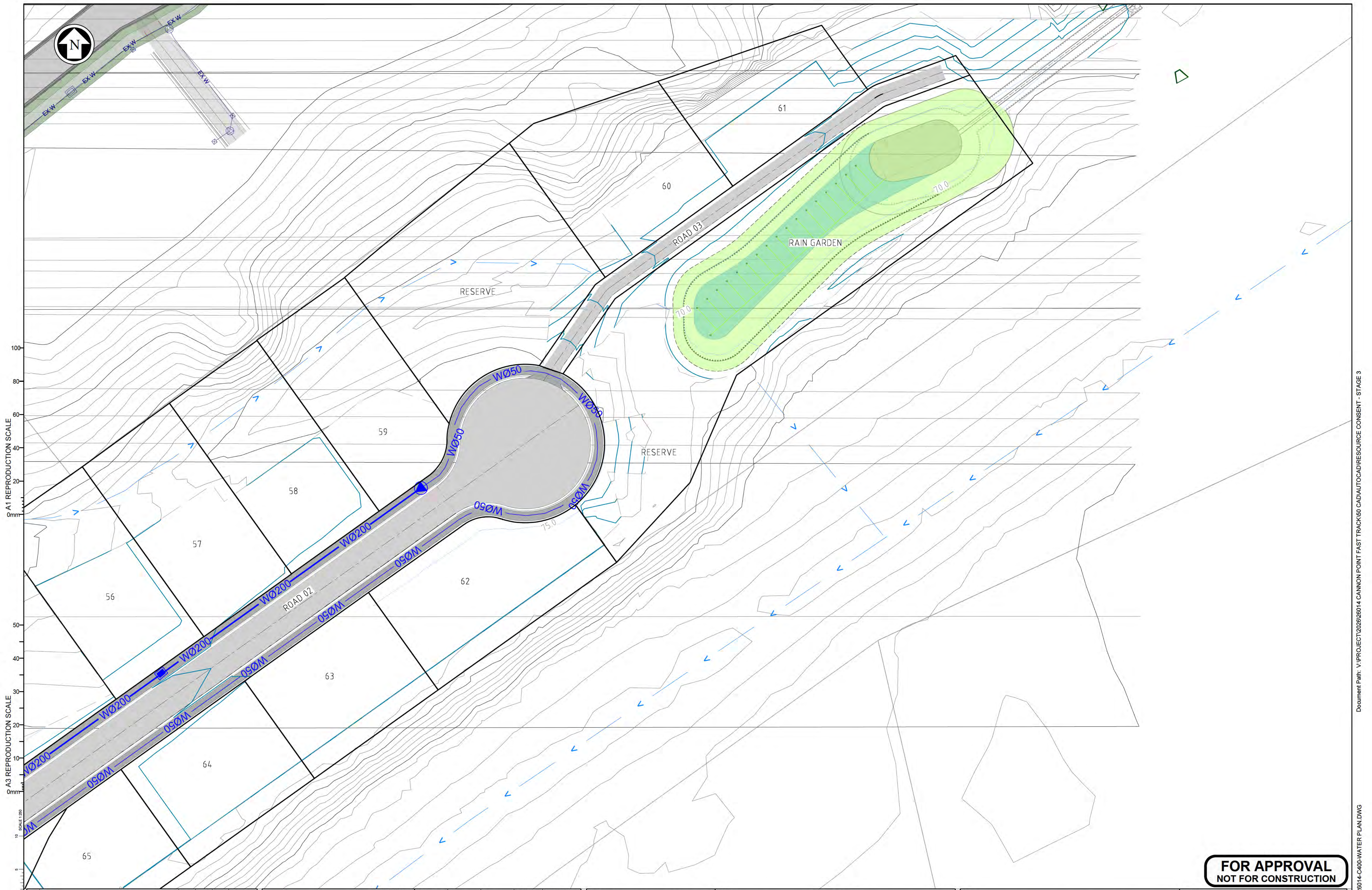
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Document No: 26014-C400-WATER PLAN.DWG



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
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Drawing Originator

Original Scale (A1)
AS SHOWN

Design
Drawn
Dsg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

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Date

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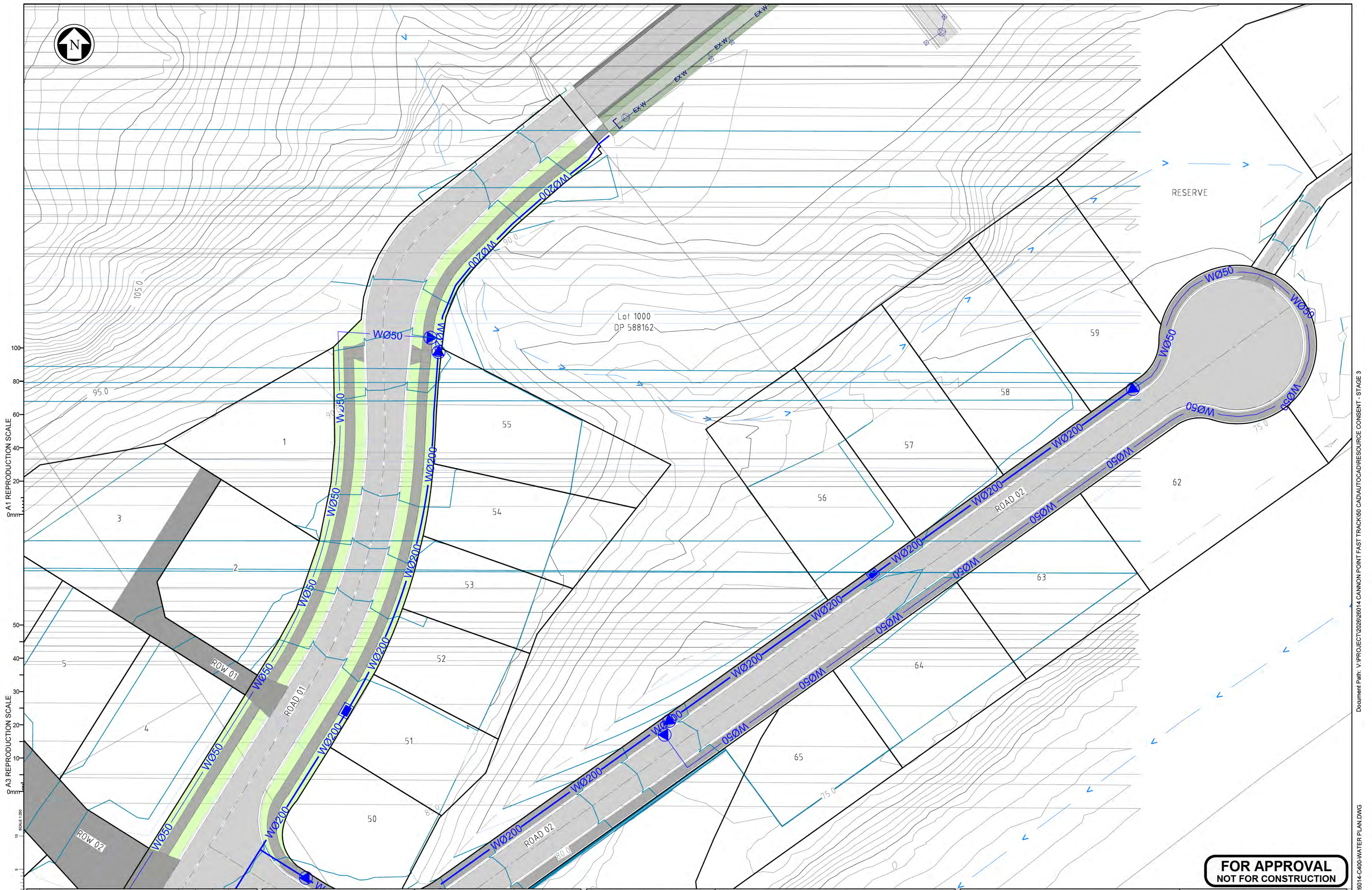
Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **WATER PLAN - SHEET 1**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C401
		Rev	C

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NOT FOR CONSTRUCTION**



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Design
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Dsg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.12
26.02.12
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26.02.12

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Date

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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **WATER PLAN - SHEET 2**

Discipline	CIVIL		
Vecta Ref. No.	Drawing No.	Rev	
26014	C402	C	

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A1 REPRODUCTION SCALE
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A3 REPRODUCTION SCALE
0mm 5 10 15 20 25 30 40 50

EXISTING
WETLAND
04

ROAD 01

ROW 02

ROW 01

ROAD 01

Lot 2
DP 50143

Lot 3
DP 306622

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
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Drawn	ZF	26.02.12	Date
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	

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Client:
**CANNON POINT
DEVELOPMENT LTD**

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
WATER PLAN - SHEET 3

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C403
		Rev	C

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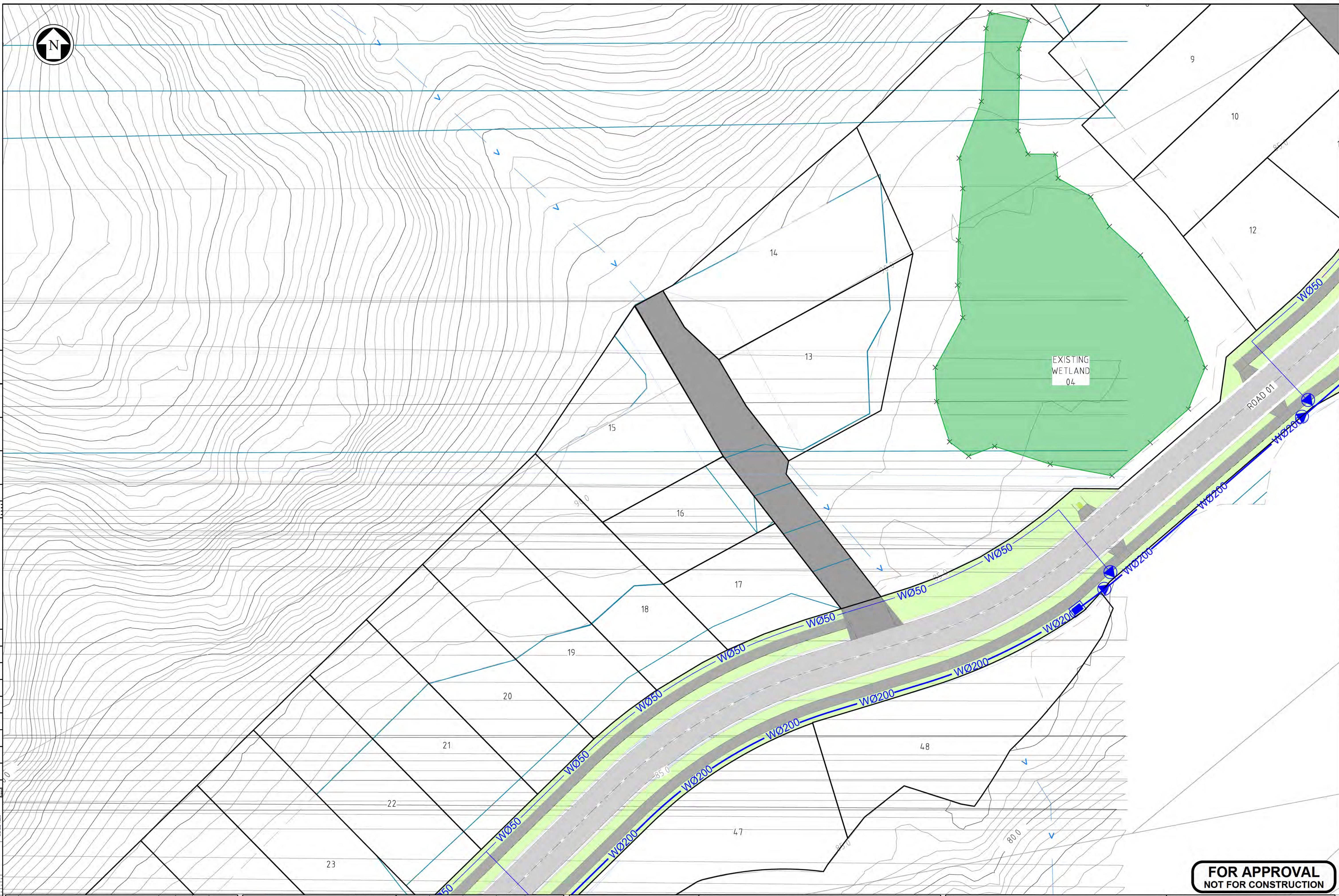
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Document No: 26014-C400-WATER PLAN.DWG Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTO\CAD\RESOURCE CONSENT - STAGE 3



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A3 REPRODUCTION SCALE
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Disg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	

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Client:
CANNON POINT DEVELOPMENT LTD

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
WATER PLAN - SHEET 4

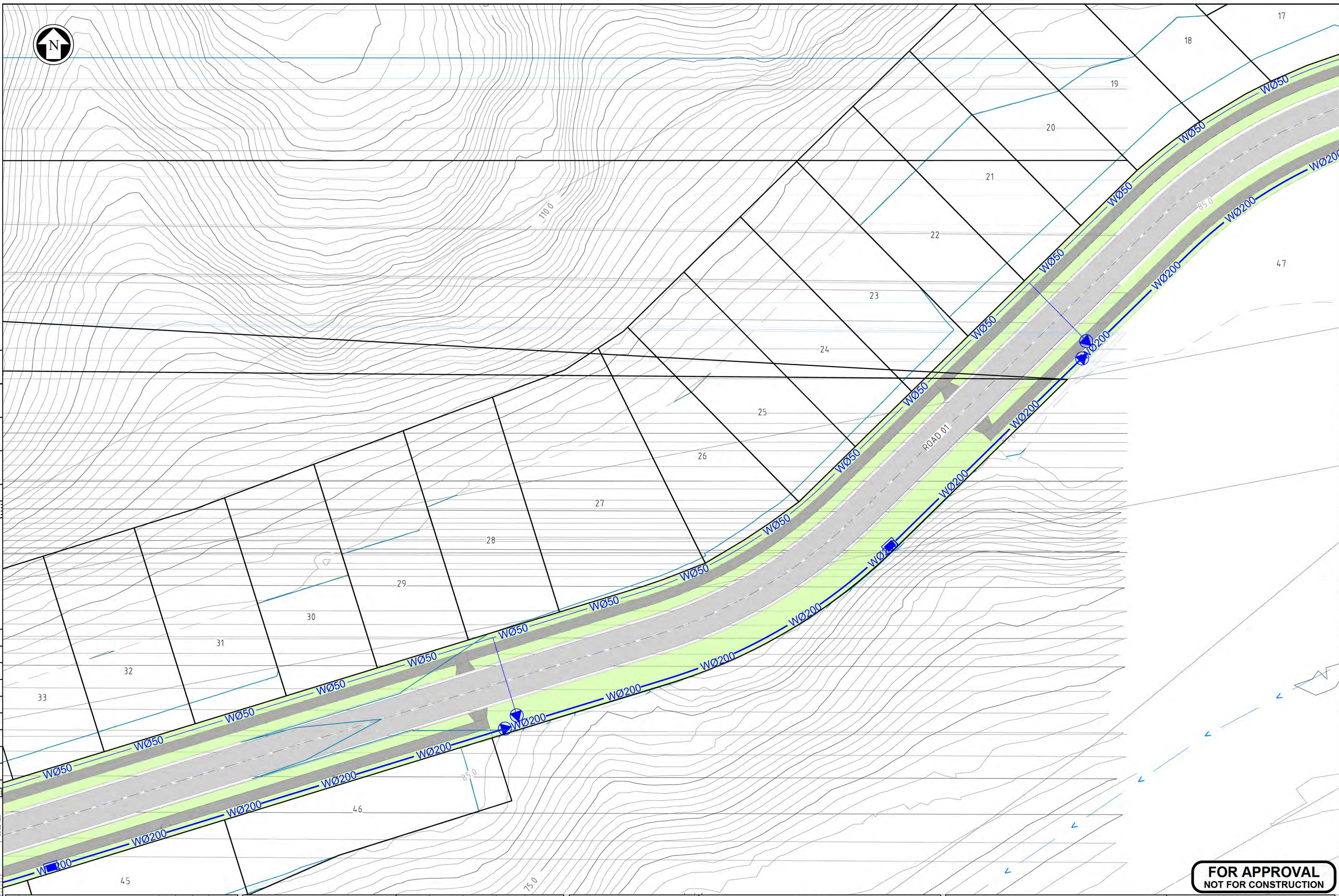
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Vecta Ref. No.	26014	Drawing No.	C404
		Rev	C

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A1 REPRODUCTION SCALE
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A3 REPRODUCTION SCALE
0mm



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B	FOR APPROVAL	ZF	JM	JM	26.05.14
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Original Scale (A1)
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Dwg Check

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ZF
JM
JM

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26.02.12
26.02.12
26.02.12

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Client:
CANNON POINT DEVELOPMENT LTD

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
WATER PLAN - SHEET 5

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C405
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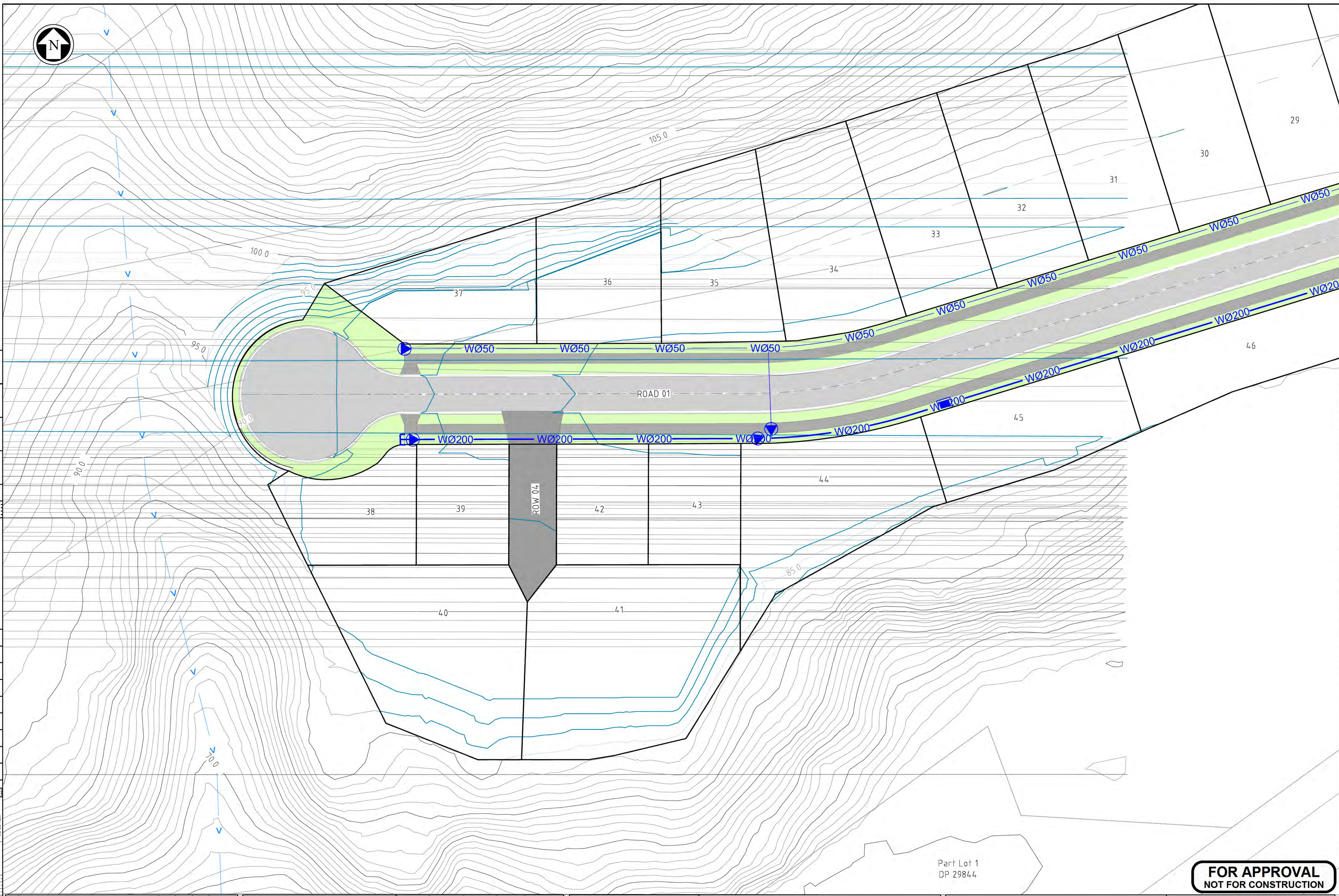
Drawing Plotted: 19 May 2026 1:51 pm



A1 REPRODUCTION SCALE
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A3 REPRODUCTION SCALE
0mm

SCALE 1:250
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Part Lot 1
DP 29844

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
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					Date

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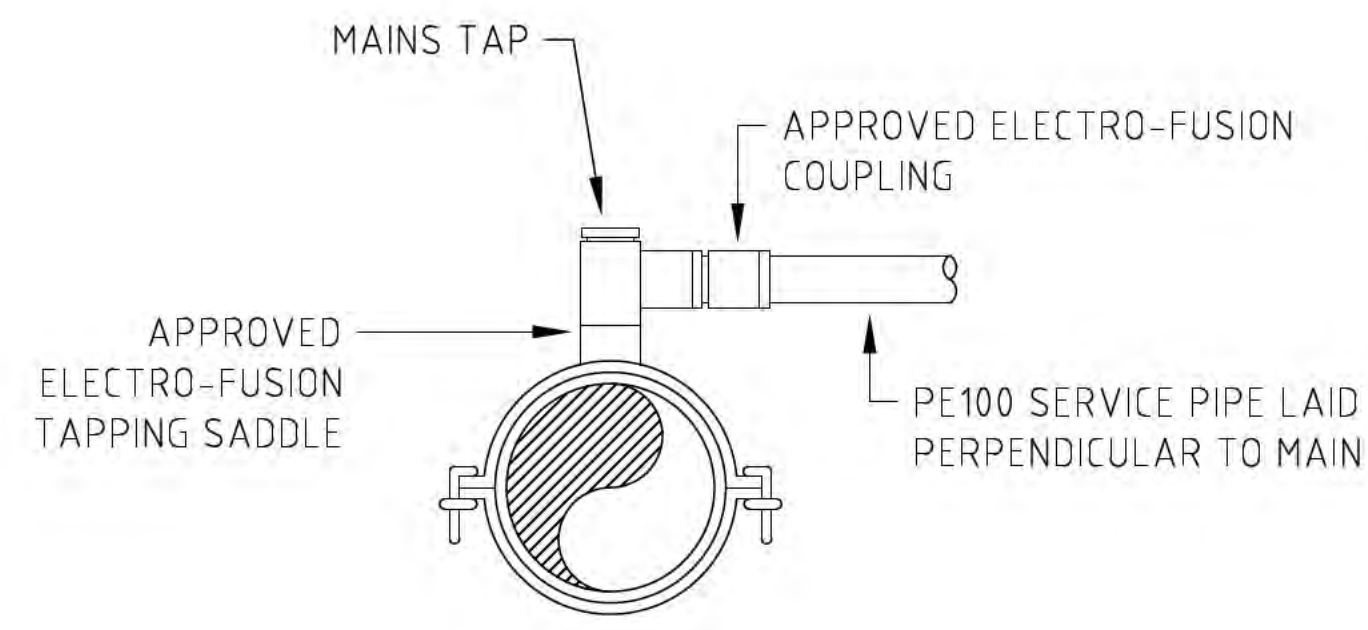
Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **WATER PLAN - SHEET 6**

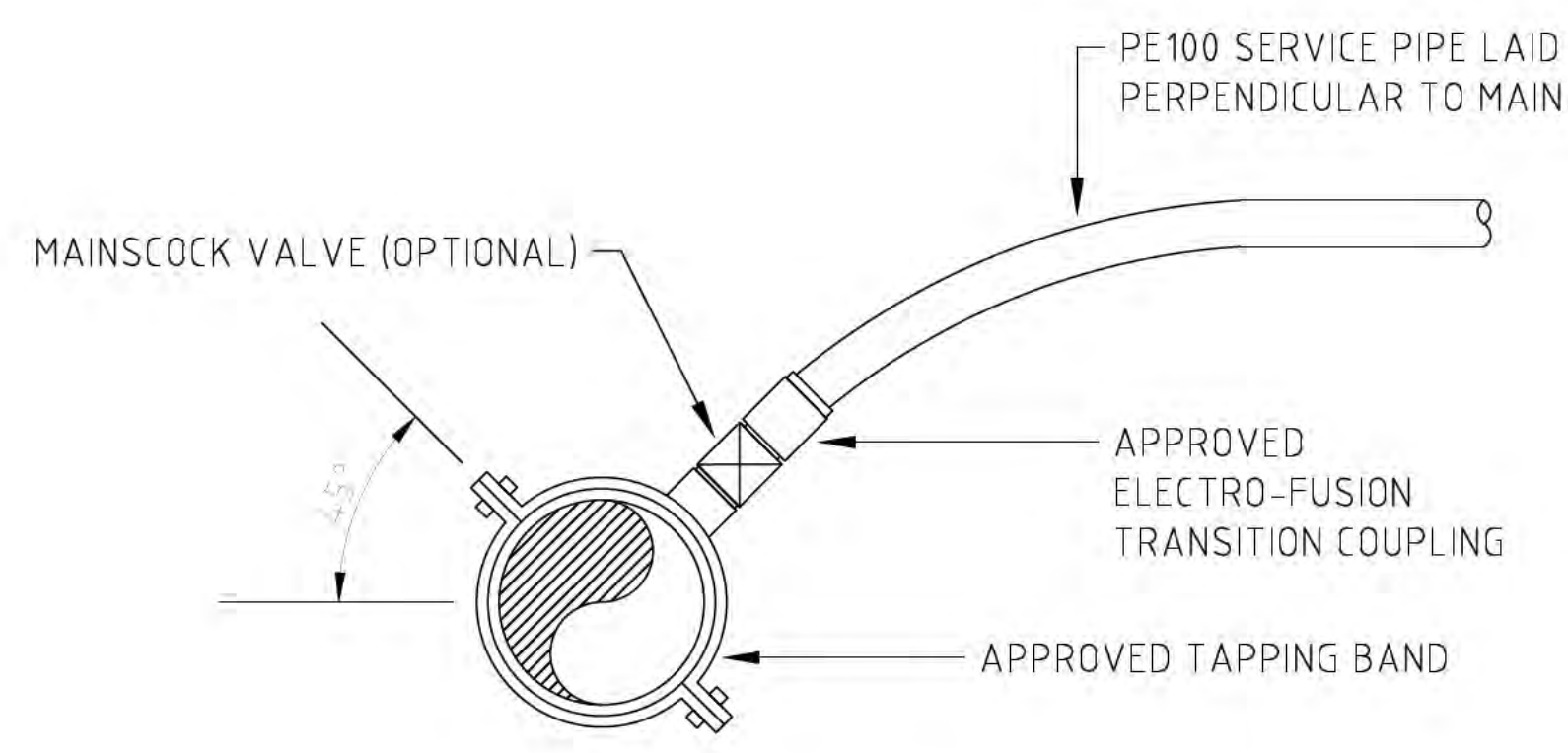
Discipline	CIVIL		
Vecta Ref. No.	Drawing No.	Rev	
26014	C406	C	

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A3 REPRODUCTION SCALE
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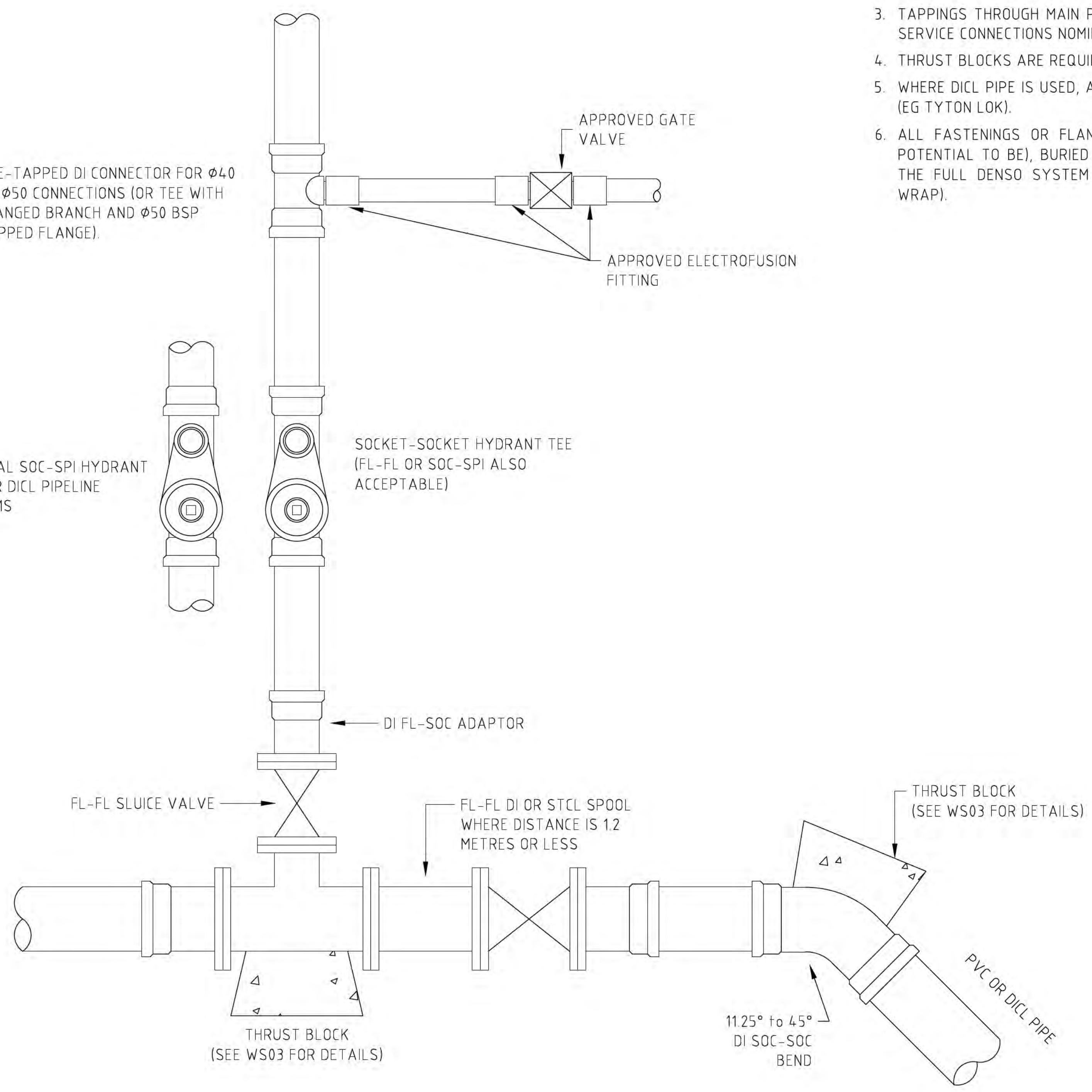
TYPICAL TAPPING TO PE PIPE



TYPICAL TAPPING TO PVC/DICL PIPE

PRE-TAPPED DI CONNECTOR FOR Ø40 OR Ø50 CONNECTIONS (OR TEE WITH FLANGED BRANCH AND Ø50 BSP TAPPED FLANGE).

OPTIONAL SOC-SPI HYDRANT TEE FOR DICL PIPELINE SYSTEMS



TYPICAL PVC OR DICL PIPE CONNECTIONS
≤ DN200

NOTES:

1. ALL FITTINGS USED TO BE COMPLIANT WITH WELLINGTON WATER APPROVED PRODUCTS REGISTER, OR COMPLIANT WITH TECHNICAL SPECIFICATIONS AND USED WITH THE WRITTEN PERMISSION OF WELLINGTON WATER.
2. PE100 SERVICE PIPES SHALL USE ELECTRO-FUSION FITTINGS.
3. TAPPINGS THROUGH MAIN PIPE WALL TO BE SAME DIAMETER AS SERVICE CONNECTIONS NOMINAL BORE.
4. THRUST BLOCKS ARE REQUIRED REGARDLESS OF JOINT TYPE.
5. WHERE DICL PIPE IS USED, ALL SOCKETS SHALL HAVE GRIP RINGS (EG TYTON LOK).
6. ALL FASTENINGS OR FLANGES THAT WILL BE (OR HAVE THE POTENTIAL TO BE), BURIED SHALL BE COATED AND WRAPPED IN THE FULL DENSO SYSTEM (PRIMER, MASTIC, WRAP AND OVER WRAP).

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B	FOR APPROVAL	ZF	JM	JM	26.05.14
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Reduced Scale (A3)	1/2 SHOWN	Refer to Revision A for Original Signature			

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **POTABLE WATER TYPICAL DETAILS -
SHEET 1**

Discipline	Vecta Ref. No.	Drawing No.	Rev
CIVIL	26014	C410	C

**FOR APPROVAL
NOT FOR CONSTRUCTION**

NOTES:

- THRUST BLOCKS TO BE POURED AGAINST FIRM, CLEAR AND UNDISTURBED NATIVE GROUND.
- THRUST BLOCKS FOR PIPES >DN300 TO BE SPECIFICALLY DESIGNED.
- MINIMUM BEARING AREAS MAY BE INCREASED PRO-RATA FOR INCREASED TEST PRESSURES.
- THRUST BLOCK VOLUMES ARE FOR A 1600kPa TEST PRESSURE. ADJUST VOLUMES FOR HIGHER TEST PRESSURES.
- MINIMUM COVER TO PIPE CROWN SHALL BE 600mm, OR SPECIFIC DESIGN IS REQUIRED.
- SHALL NOT BE PLACED UNDER WORKING OR TEST LOAD FOR AT LEAST 3 DAYS AFTER POURING, WHERE THIS IS UNAVAILABLE, TOMMING WITH TIMBER STRUTS TO PROVIDE IMMEDIATE THRUST RESTRAINT IS ALLOWABLE IF APPROVED BY WELLINGTON WATER.
- THRUST BLOCKS ARE NOT REQUIRED ON PE PRESSURE PIPELINES AT CHANGES OF DIRECTION, TEES AND CHANGES IN PIPE DIAMETER UNLESS SPECIFICALLY REQUIRED BY THE DESIGNER.
- PRECAST THRUST BLOCKS MAY BE PERMITTED, REFER TO SECTION 6.3.6.3 OF THE REGIONAL SPECIFICATION.
- A PROTECTIVE POLYTHENE MEMBRANE IS REQUIRED BETWEEN THE FITTING AND THE THRUST BLOCK TO PREVENT ABRASIVE DAMAGE TO THE WATER MAIN.
- ALL FASTENINGS OR FLANGES THAT WILL BE (OR HAVE THE POTENTIAL TO BE) BURIED SHALL BE COATED AND WRAPPED IN THE FULL DENSO SYSTEM (PRIMER, MASTIC, WRAP AND OVER WRAP).
- THE BEARING PRESSURE OF THE SOIL SHALL BE CHECKED TO ENSURE IT HAS THE MINIMUM REQUIRED BEARING STRENGTH AS SPECIFIED IN THE DESIGN.
- THE WATER TABLE IS ASSUMED TO BE BELOW THE BASE OF THE THRUST BLOCK. IF THIS ASSUMPTION DOES NOT APPLY, A CHARTERED ENGINEER MUST BE ENGAGED TO DESIGN THE BLOCK.

MINIMUM BEARING AREA (m ²) FOR PN16 PIPES					
ASSUMED TEST PRESSURE 1600 kPa, ASSUMED HORIZONTAL SOIL BEARING PRESSURE 75kPa					
PIPE DN	11.25° BEND	22.5° BEND	45° BEND	90° BEND	END CAP / TEE / INLINE
Ø100	0.1	0.2	0.3	0.5	0.4
Ø150	0.2	0.3	0.6	1.1	0.8
Ø200	0.3	0.5	1.0	1.9	1.4
Ø300	0.6	1.2	2.3	4.2	3.0

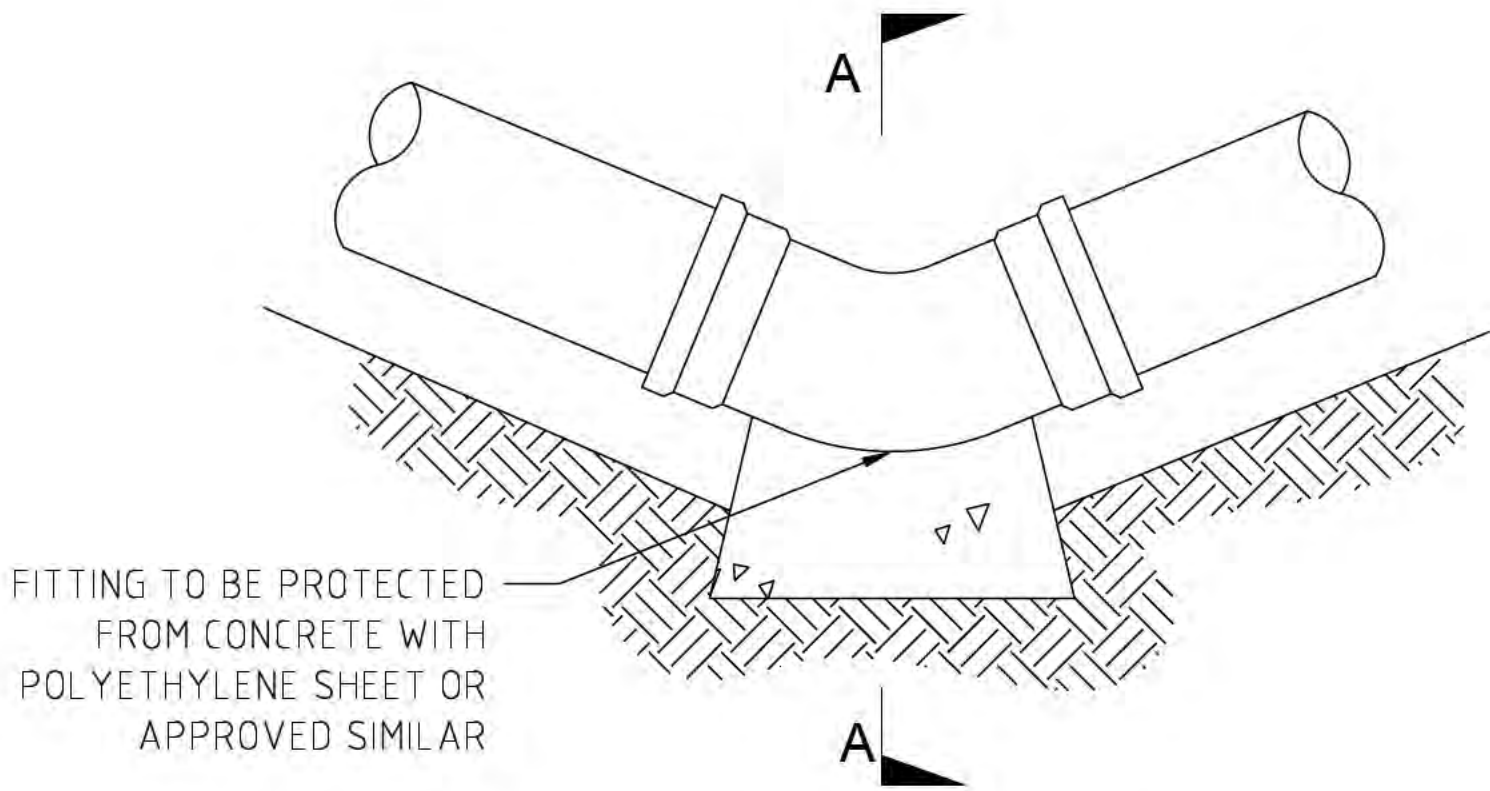
VALUES IN THE TABLE ABOVE INCLUDE, FACTOR OF SAFETY = 1.5
THE FOLLOWING FORMULAE CAN BE USED TO CALCULATE MIN. BEARING AREAS:

FOR BENDS = $\frac{AP2\sin(\theta/2)SF}{SBP}$ m²

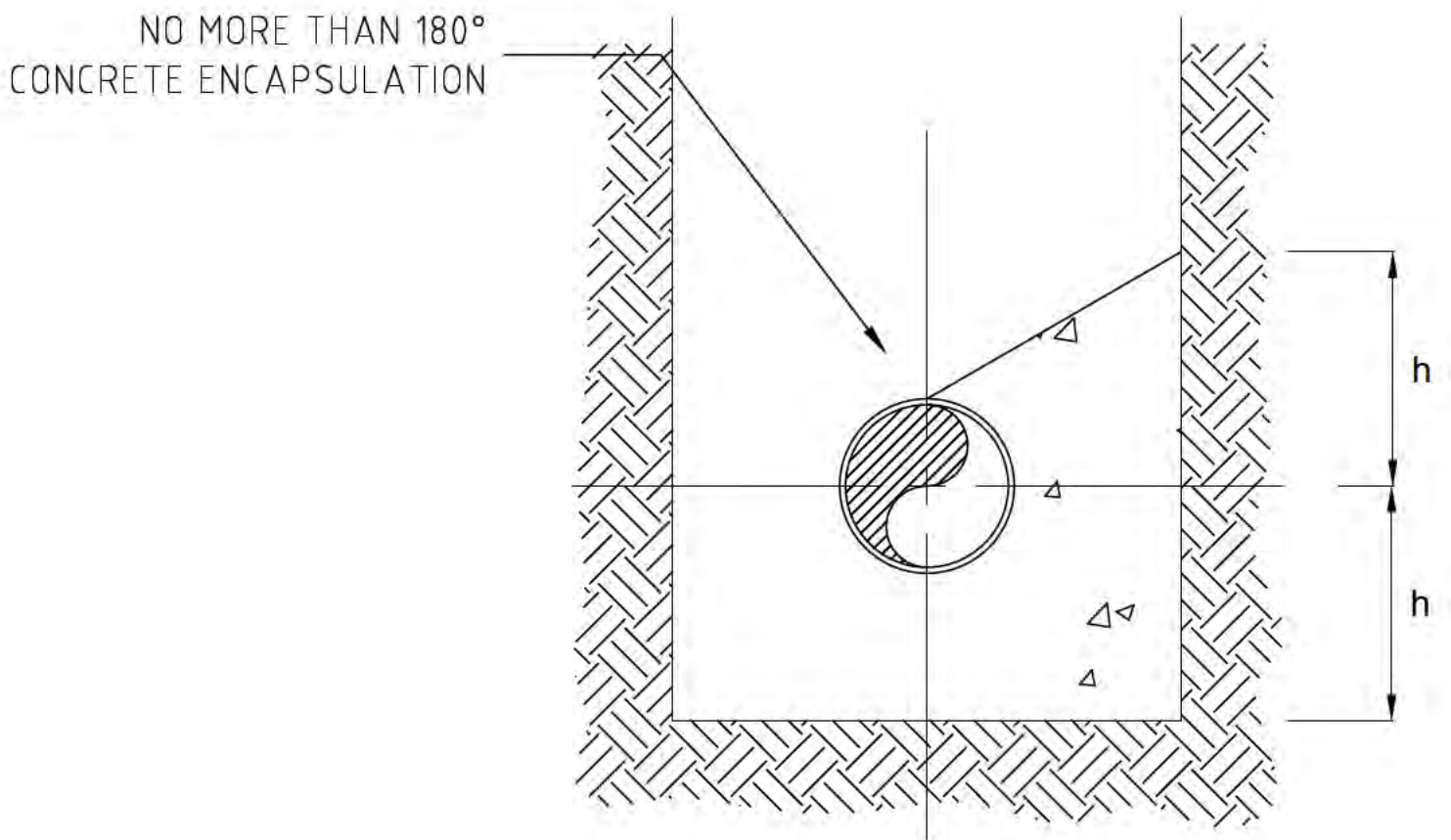
FOR END CAPS / TEES = $\frac{APSF}{SBP}$ m²

WHERE:
A = AREA OF PIPE (m² : USING OUTSIDE DIA. OF PIPE)
P = TEST PRESSURE OF PIPE (kPa)
 θ = ANGLE OF BEND
SBP = SAFE BEARING PRESSURE OF IN SITU SOIL (kPa)
SF = FACTOR OF SAFETY, 1.5

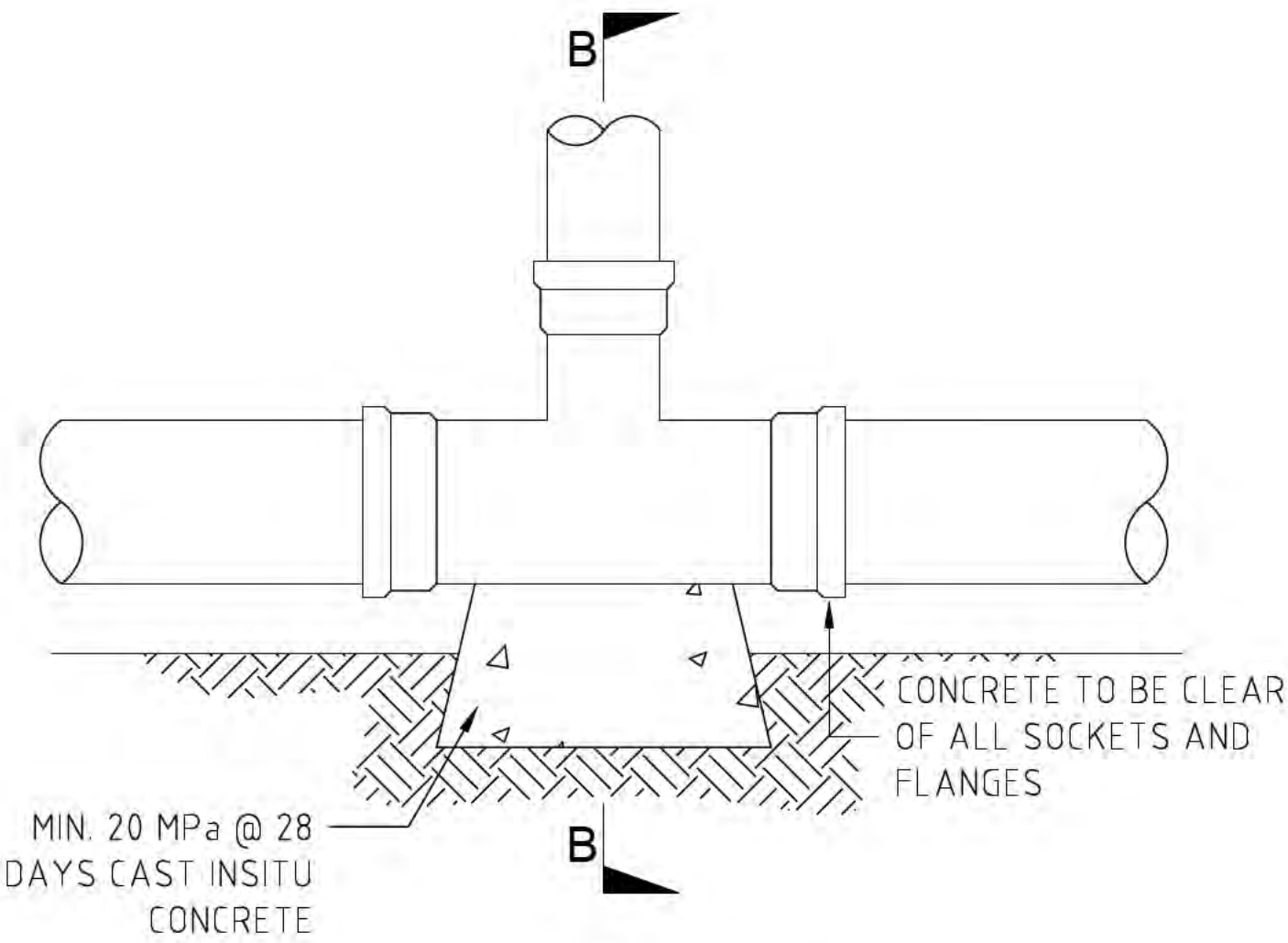
ALLOWABLE BEARING PRESSURE		
VERTICAL BEARING PRESSURE (kPa) OF SOIL FOR PIPE ≤DN 300 MEASURED USING A SCALA PENETROMETER		
BLOWS PER 100 mm	VERTICAL BEARING PRESSURE (kPa)	HORIZONTAL BEARING PRESSURE (kPa)
2	65	32.5
3	100	50
5	150	75
7	200	100



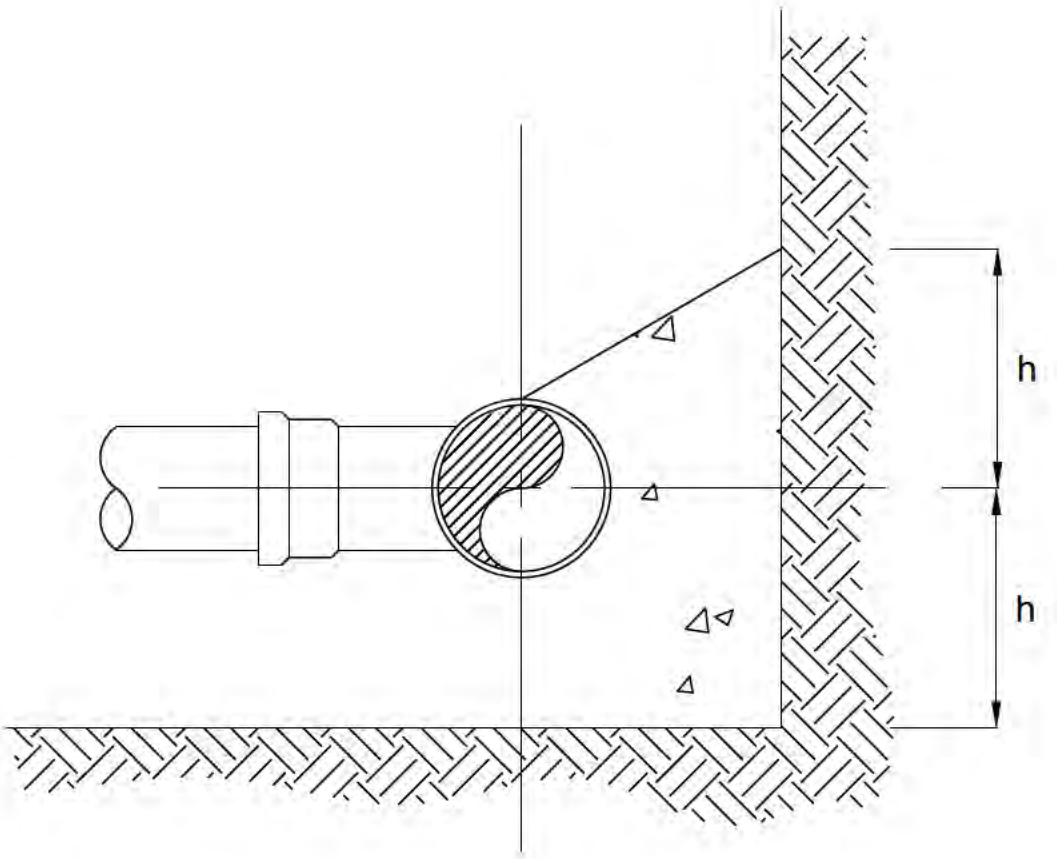
TYPICAL THRUST BLOCK DETAIL ON BENDS -
PLAN VIEW



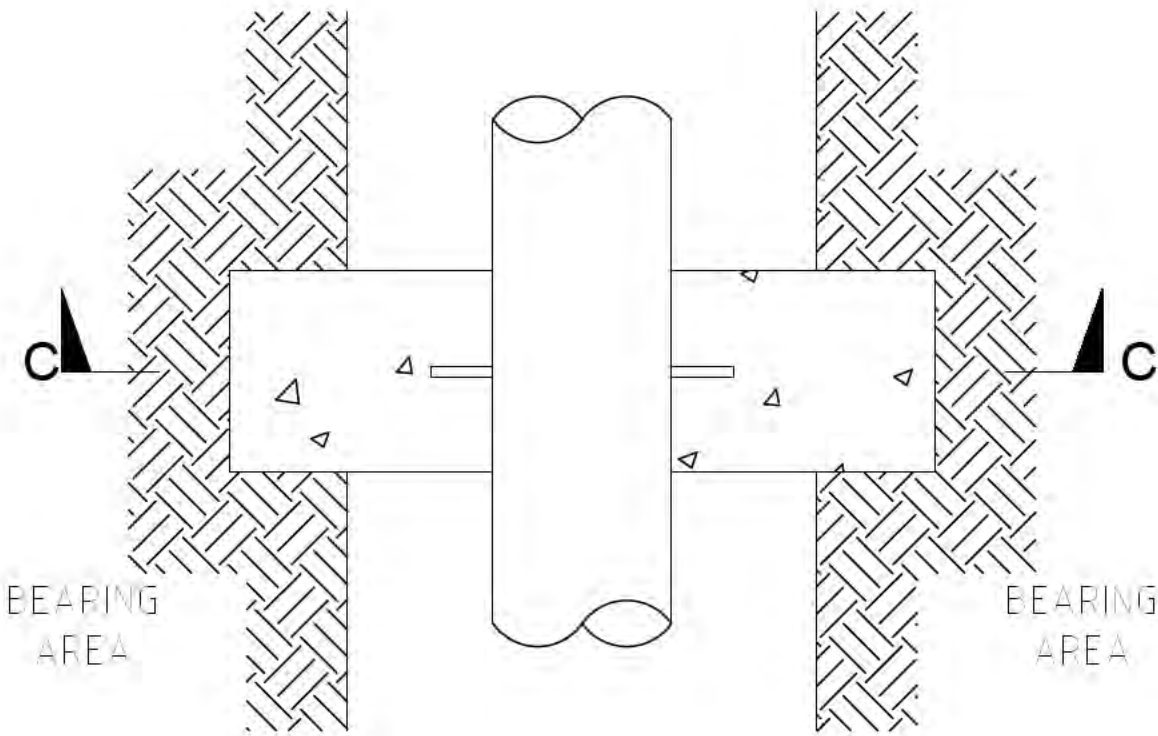
SECTION A-A



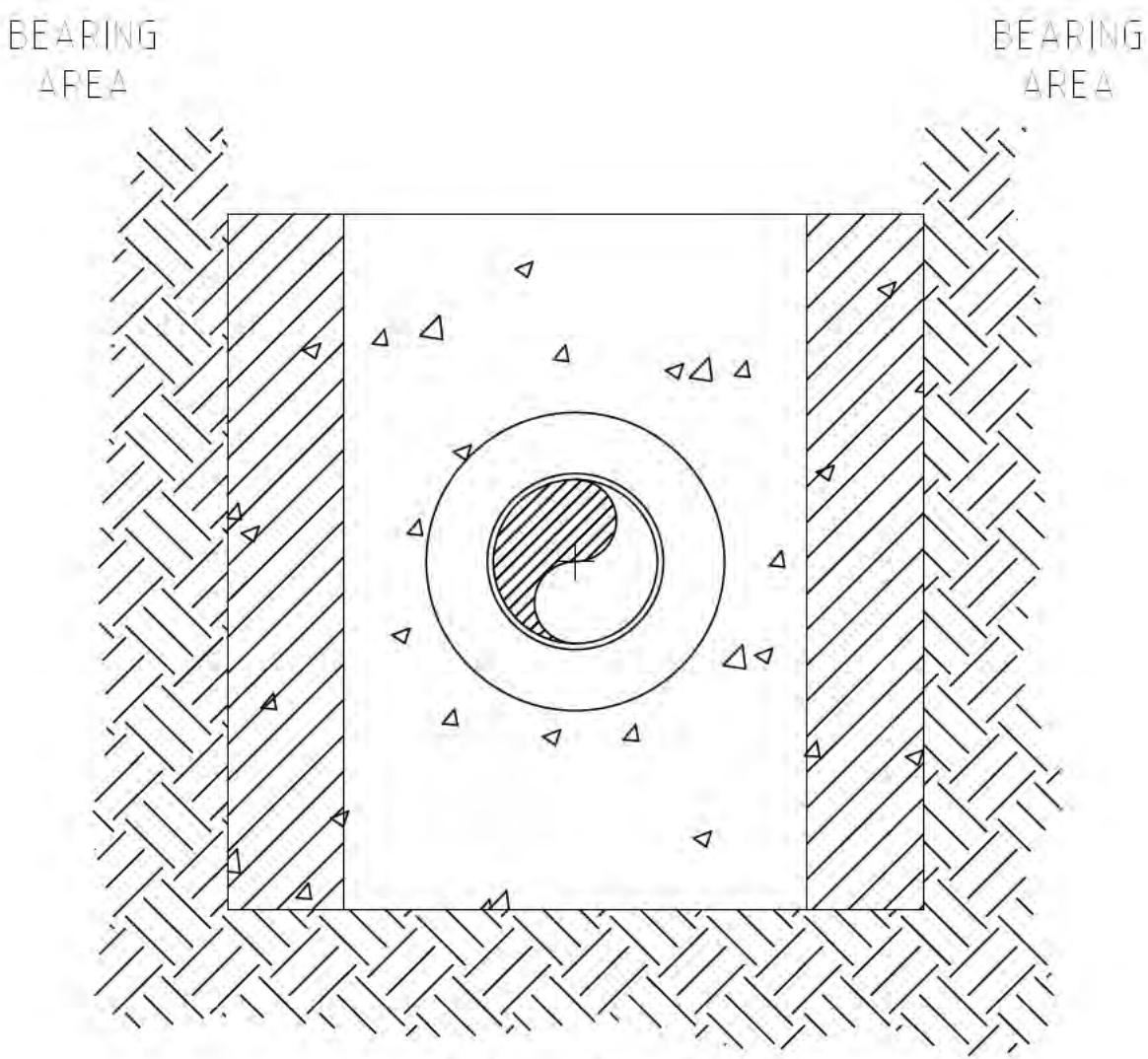
TYPICAL THRUST BLOCK DETAIL ON TEE -
PLAN VIEW



SECTION B-B



TYPICAL IN-LINE THRUST BLOCK DETAIL -
PLAN VIEW



SECTION C-C

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Client:	CANNON POINT DEVELOPMENT LTD	Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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Title:	POTABLE WATER TYPICAL DETAILS - SHEET 2
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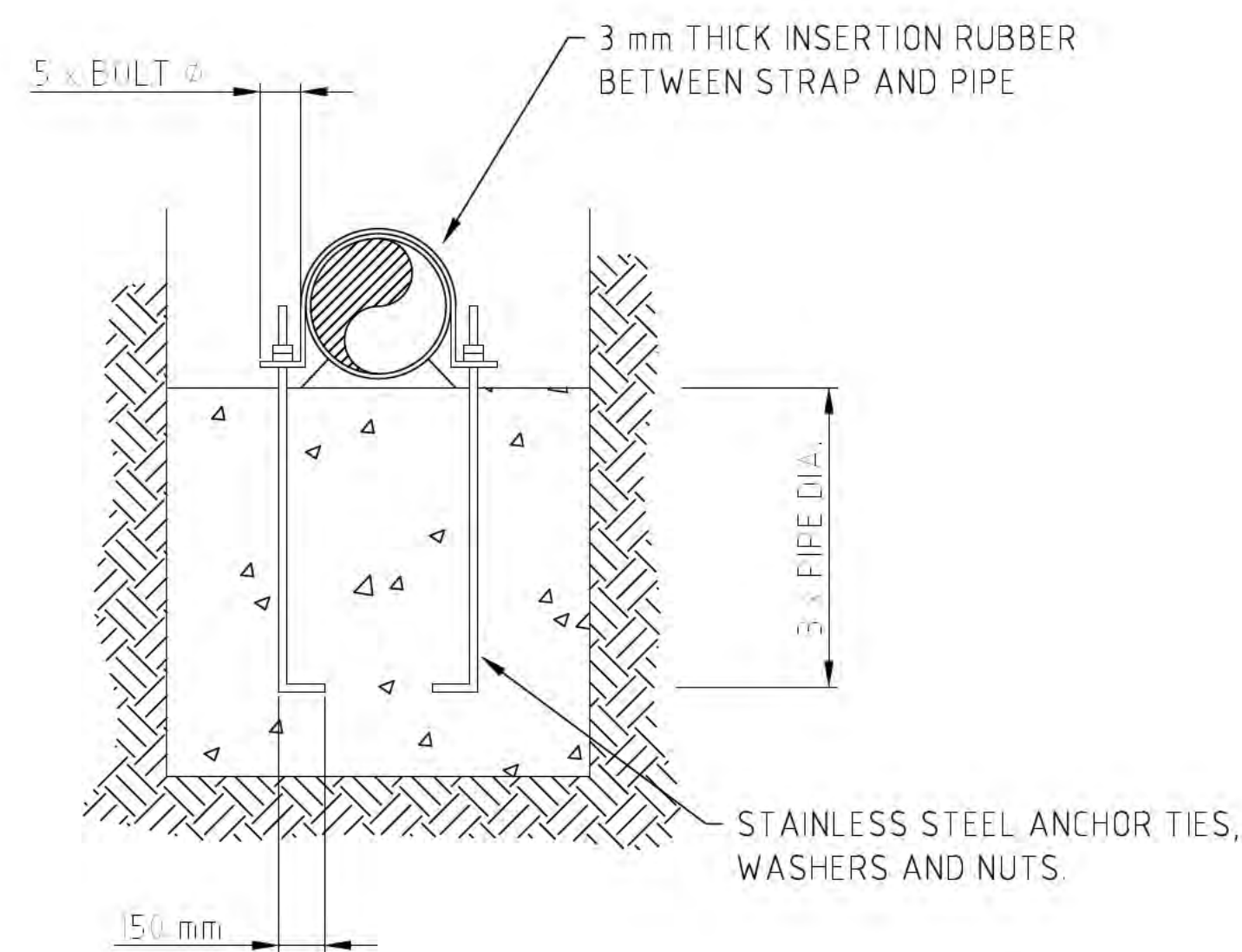
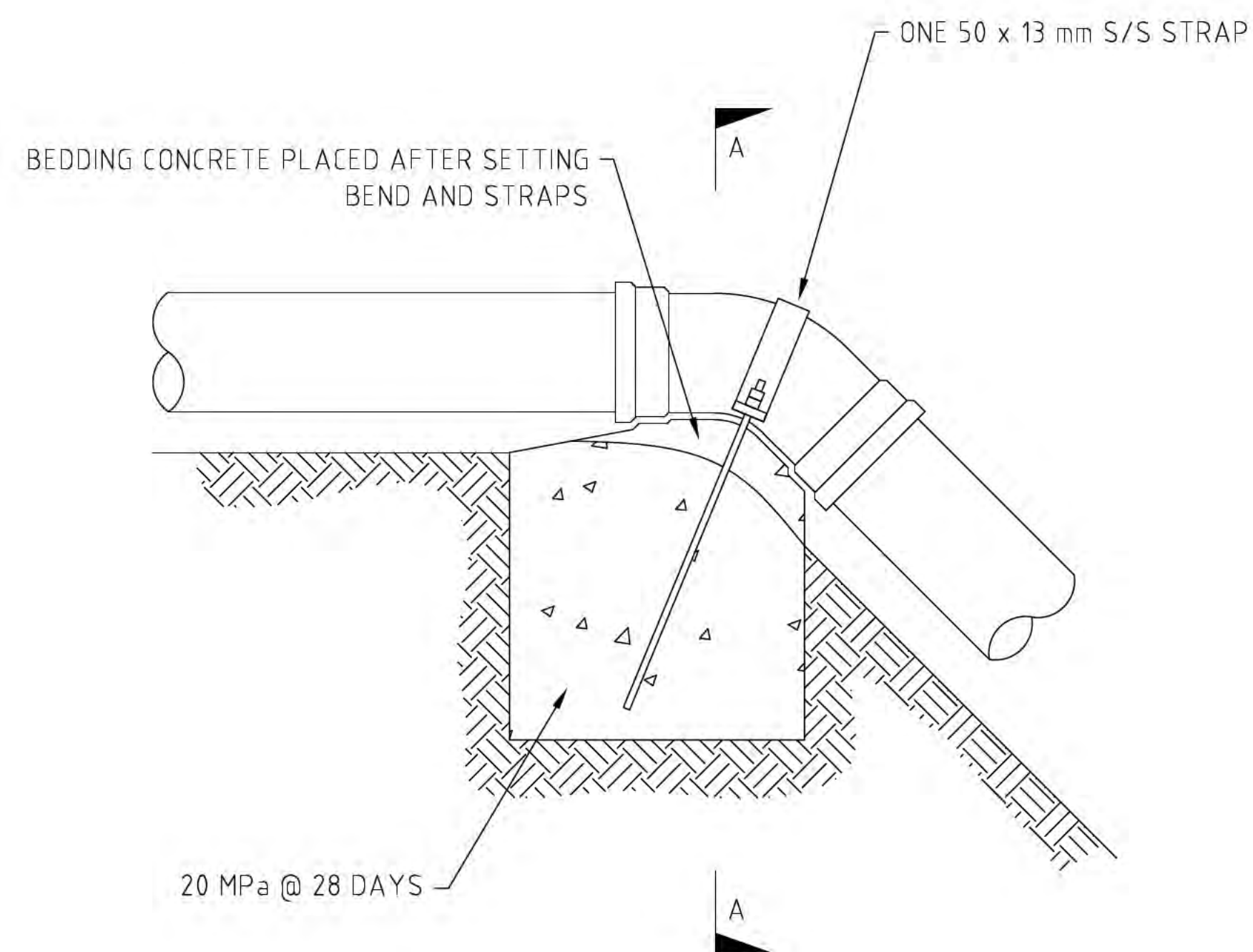
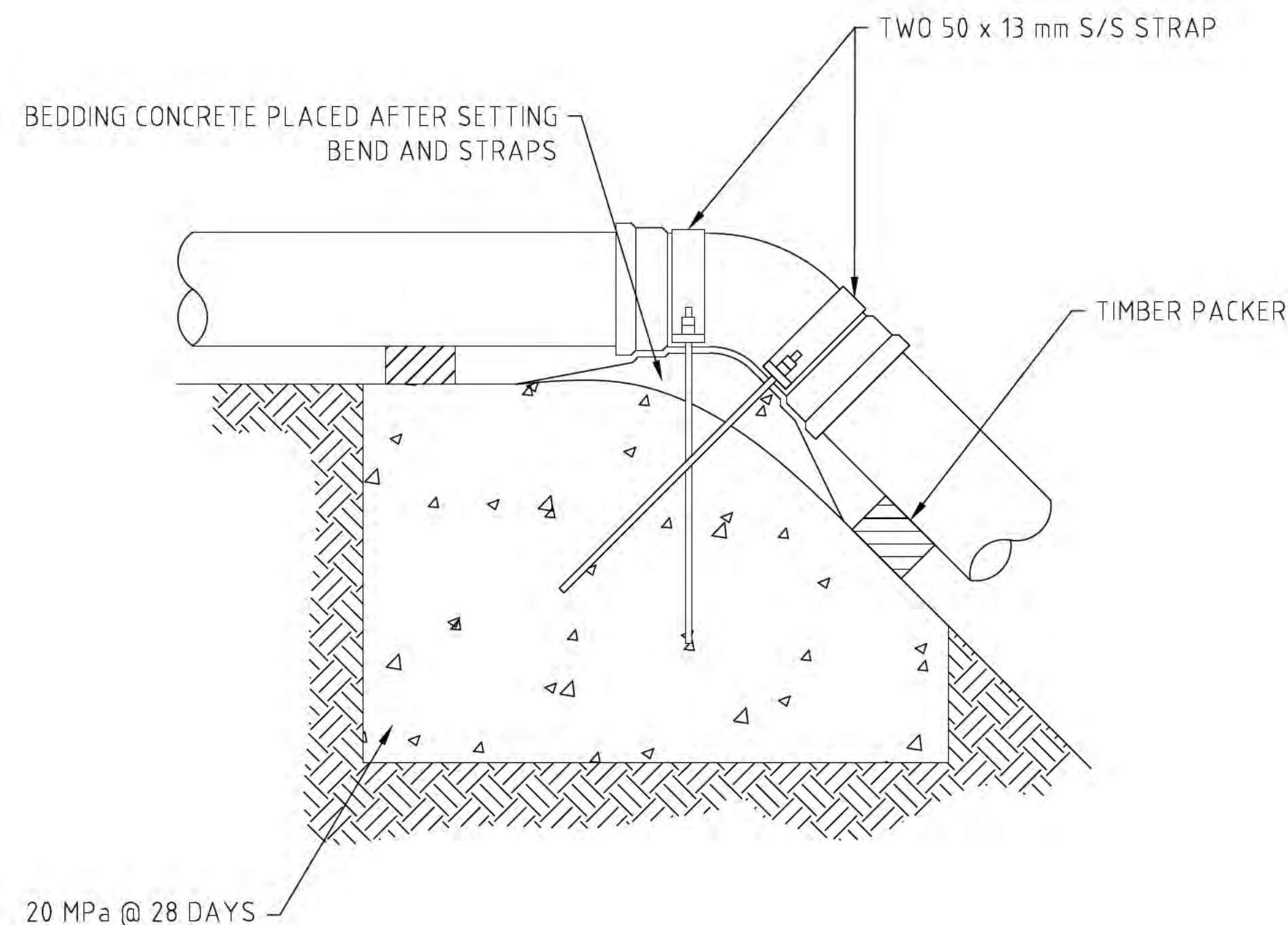
Discipline:	CIVIL
Vecta Ref. No.	26014
Drawing No.	C411
Rev	C

Document No.	26014-C410 WATER DETAILS.DWG
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Document Path:	V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3
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A1 REPRODUCTION SCALE
100
80
60
40
20
0mm

A3 REPRODUCTION SCALE
50
40
30
20
10
0mm



A-A

TYPICAL ANCHOR BLOCK DETAILS

PIPE DN	MINIMUM ANCHOR VOLUME (m ³) FOR 1600 kPa TEST PRESSURE			NO. OF STRAPS	THREAD SIZE
	11.25°	22.5°	45°		
Ø100	0.14	0.28	0.51	1	M12
Ø150	0.30	0.60	1.11	1	M16
Ø200	0.51	1.01	1.88	2	M16
Ø250	0.79	1.57	2.91	2	M20
Ø300	1.11	2.21	4.10	2	M20

THE FOLLOWING FORMULA CAN BE USED TO CALCULATE MINIMUM ANCHOR VOLUME:

$$F = AP \sin \theta$$

$$V = \left(\left(\frac{F \times 1000}{g} \right) - M_w \right) / \rho$$

WHERE:

A = AREA OF PIPE (m² USING OUTSIDE DIA. OF PIPE)

P = TEST PRESSURE (kPa)

θ = ANGLE OF BEND

F = VERTICAL FORCE COMPONENT ON PIPE (kN)

g = ACCELERATION DUE TO GRAVITY (m/s²)

M_w = MASS OF WATER FOR A 1m SECTION OF PIPE (kg)

ρ = DENSITY OF CONCRETE (kg/m³)

- VOLUMES CALCULATED USING VERTICAL FORCE ONLY, HORIZONTAL FORCE WILL BE ACCOMMODATED BY BEARING AREA OF ANCHOR BLOCK.
- DENSITY OF CONCRETE ASSUMED TO BE 2300 kg/m³
- MASS OF WATER HAS BEEN INCLUDED IN THE EQUATION FOR A 1m LENGTH OF PIPE.
- MINIMUM STRAP SIZE 50 x 13mm
- NO SAFETY FACTOR HAS BEEN USED AS THERE IS LITTLE VARIABILITY IN THE INPUT VALUES.
- THE MASS OF BEDDING AND BACKFILL HAS NOT BEEN INCLUDED IN THE CALCULATION.

NOTES:

- ANCHOR BLOCKS TO BE POURED AGAINST FIRM, CLEAR AND UNDISTURBED NATIVE GROUND.
- ANCHOR BLOCKS FOR PIPES >DN300 TO BE SPECIFICALLY DESIGNED.
- ALL CONCRETE TO BE CLEAR OF FLANGES & SOCKETS.
- ANCHOR BLOCK VOLUMES ARE FOR A 1600kPa TEST PRESSURE. ADJUST VOLUMES FOR HIGHER TEST PRESSURES.
- ALL FASTENINGS OR FLANGES THAT WILL BE (OR HAVE THE POTENTIAL TO BE), BURIED SHALL BE COATED AND WRAPPED IN THE FULL DENSO SYSTEM (PRIMER, MASTIC, WRAP AND OVER WRAP).
- ANCHOR TIES IN UNREINFORCED ANCHOR BLOCKS SHOULD EXTEND INTO THE BLOCK BY AT LEAST 3/4 OF THE DEPTH OF THE BLOCK.
- ANCHOR BLOCKS LARGER THAN 1.2m³ SHOULD BE REINFORCED. THE REINFORCED BAR SHOULD BE D16 AT 200mm CENTERS BOTH WAYS, ON ALL FACES. MINIMUM 75mm COVER.

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12

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Original Scale (A1) AS SHOWN	Design Drawn Dsg Verifier Dwg Check	JD ZF JM JM
Reduced Scale (A3) 1/2 SHOWN	26.02.12 26.02.12 26.02.12 26.02.12	Approved For Issue* Date

Client: CANNON POINT DEVELOPMENT LTD	Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT	Approved For Issue* Date
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Client: CANNON POINT DEVELOPMENT LTD	Project: STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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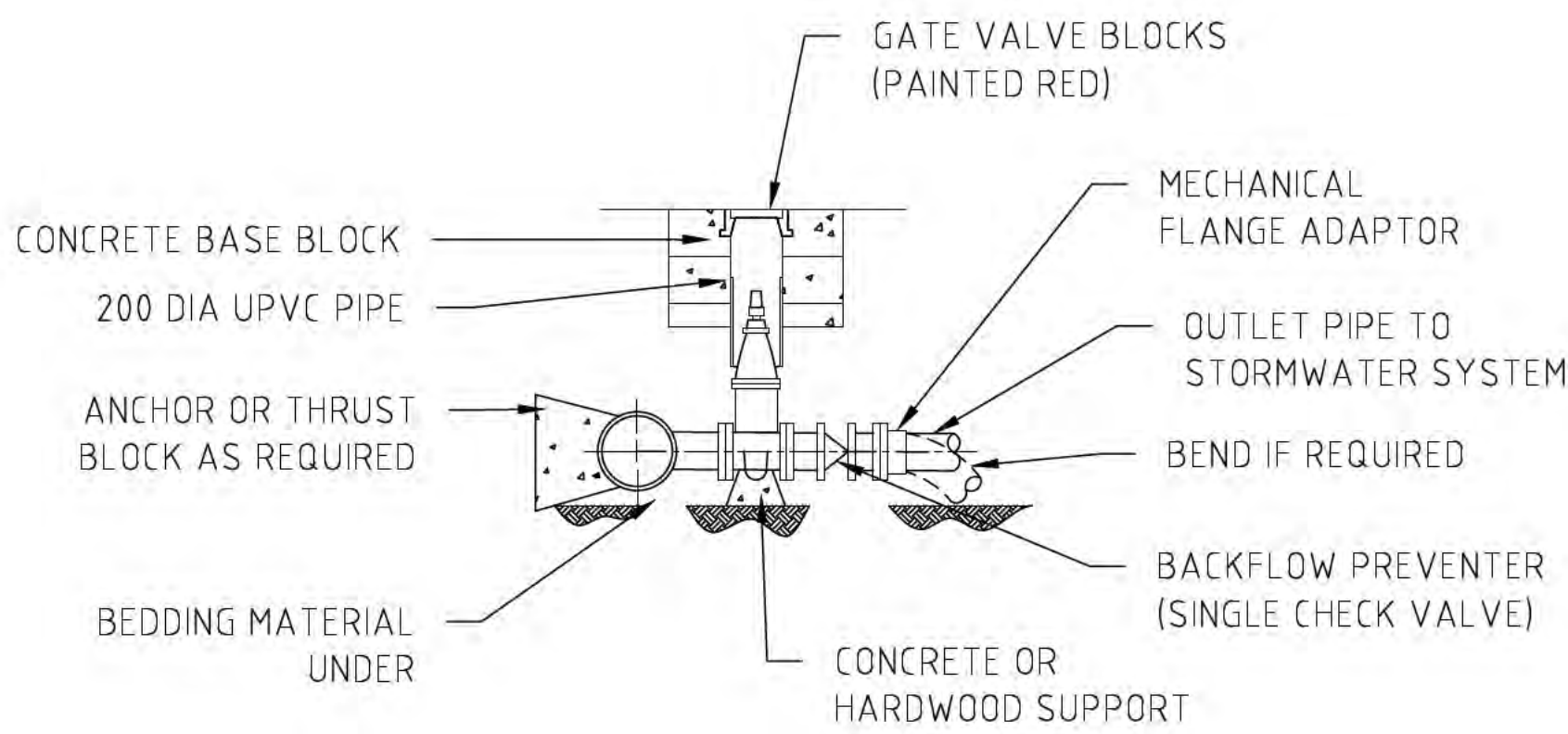
Title: POTABLE WATER TYPICAL DETAILS - SHEET 3	Discipline: CIVIL
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Vecta Ref. No. 26014	Drawing No. C412	Rev. C
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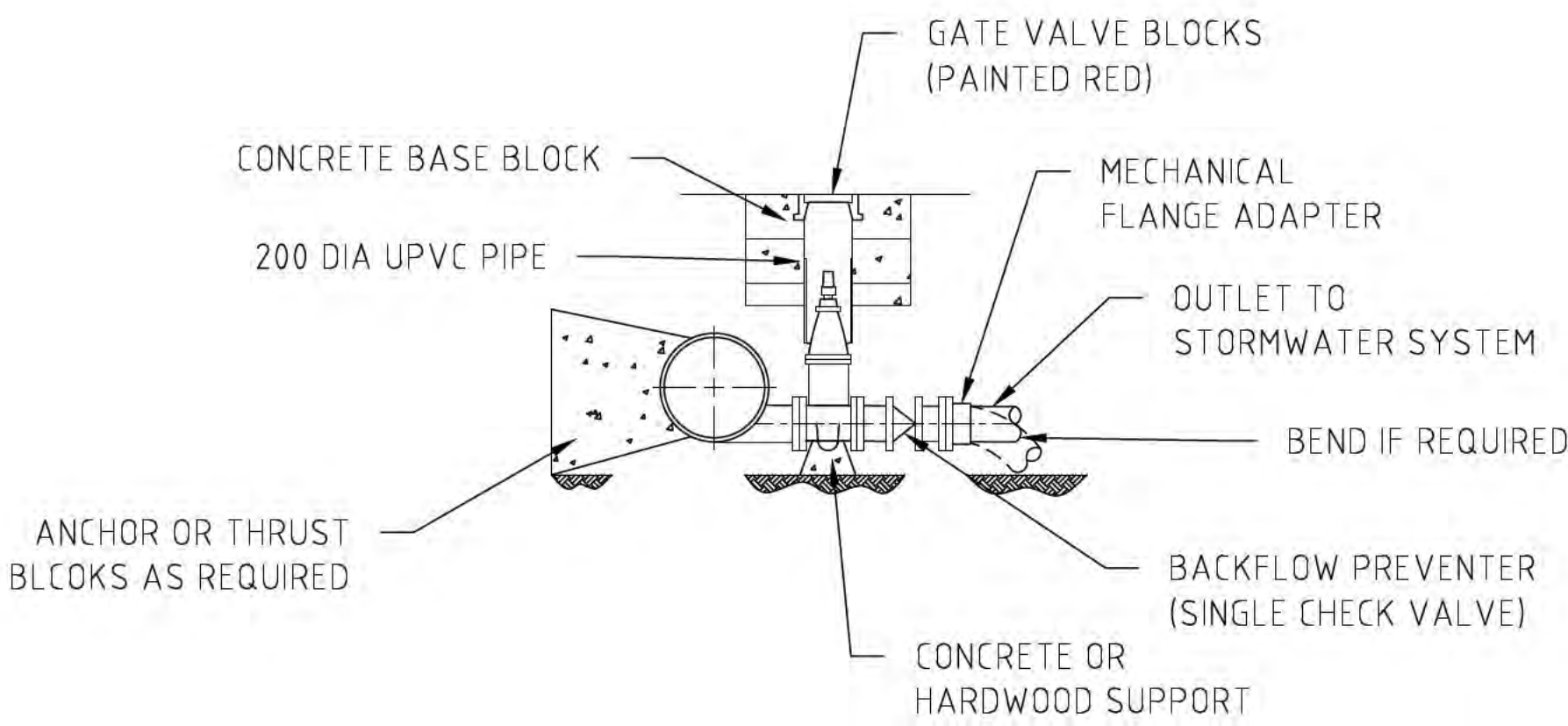
Discipline: CIVIL	Vecta Ref. No. 26014	Drawing No. C412	Rev. C
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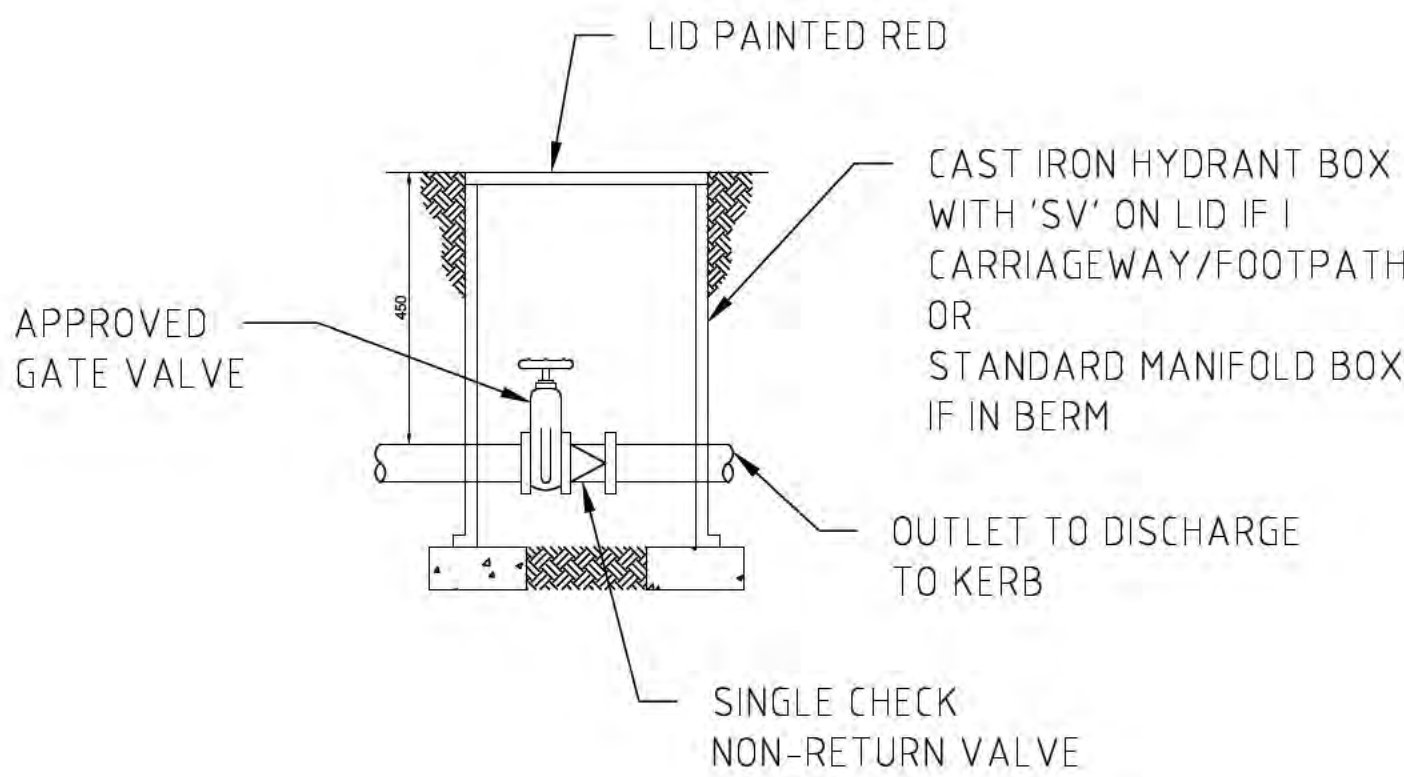
1. DIAMETER OF SCOUR TO BE DESIGNED TO PRODUCE SCOURING VELOCITY OF 2.0 METRES PER SECOND DOWNSTREAM STORMWATER CONDITIONS TO BE CONSIDERED.



FOR MAINS 80MM TO DN 250MM

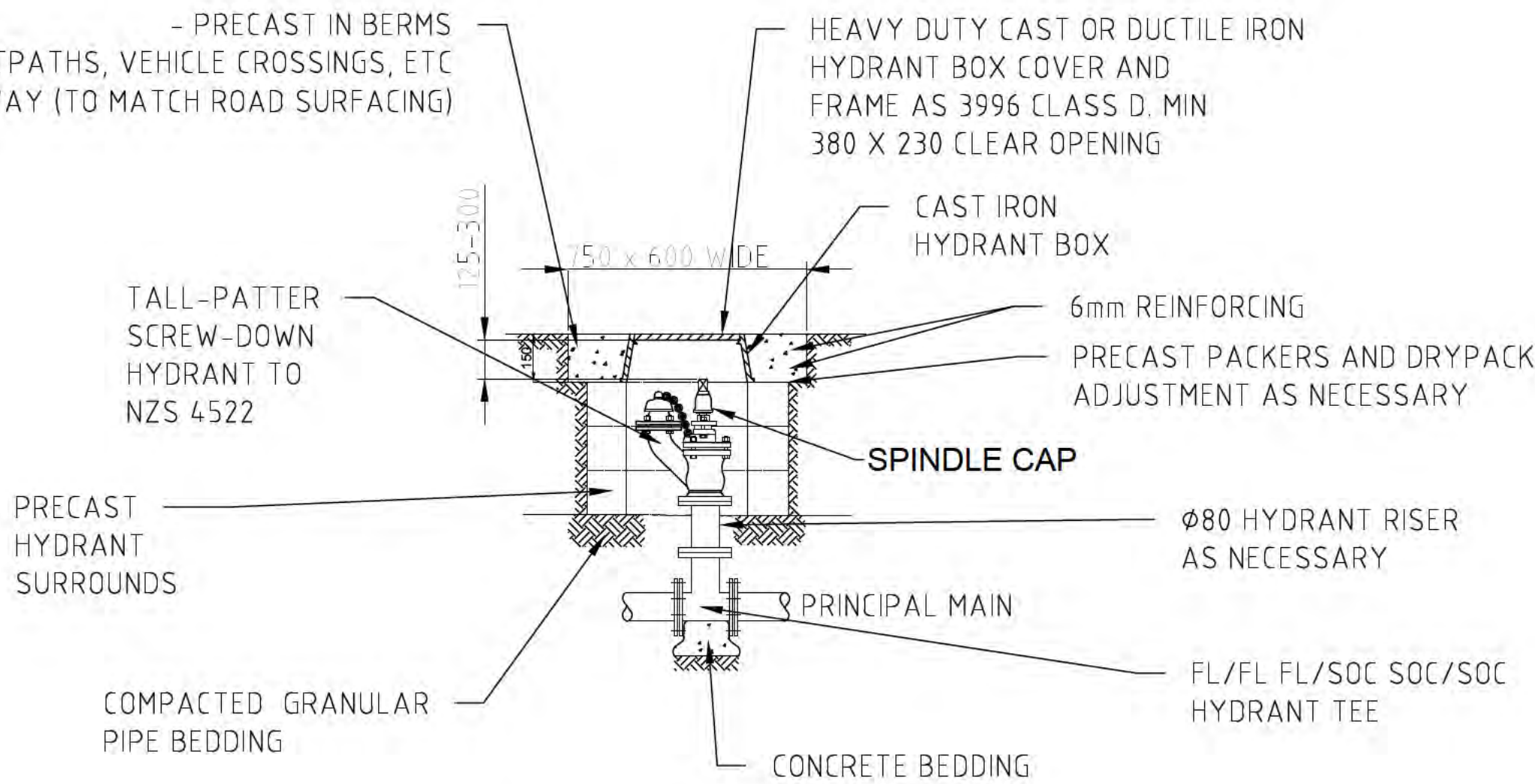


FOR MAINS DN 300MM AND LARGER

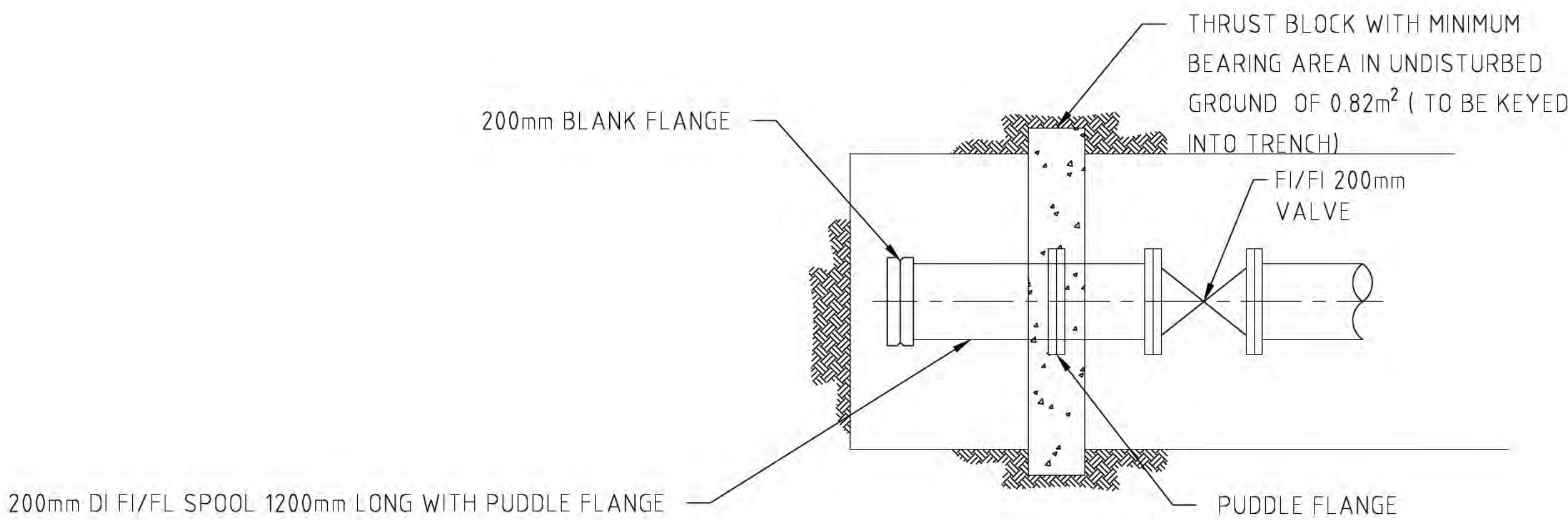


TYPICAL RIDER MAIN SCOURS

- PRECAST IN BERMS
- CAST INSITU IN FOOTPATHS, VEHICLE CROSSINGS, ETC
- NO SURROUND IN CARRIAGE WAY (TO MATCH ROAD SURFACING)



TYPICAL FIRE HYDRANT BOX



TEMPORARY END CONNECTION

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No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
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A	FOR APPROVAL	JD	JM	JM	26.02.12

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AS SHOWN	JD	ZF	26.02.12	
Reduced Scale (A3)	Dwg Verifier	JM	26.02.12	
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Client:	CANNON POINT DEVELOPMENT LTD
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Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT
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Title:	POTABLE WATER TYPICAL DETAILS - SHEET 4
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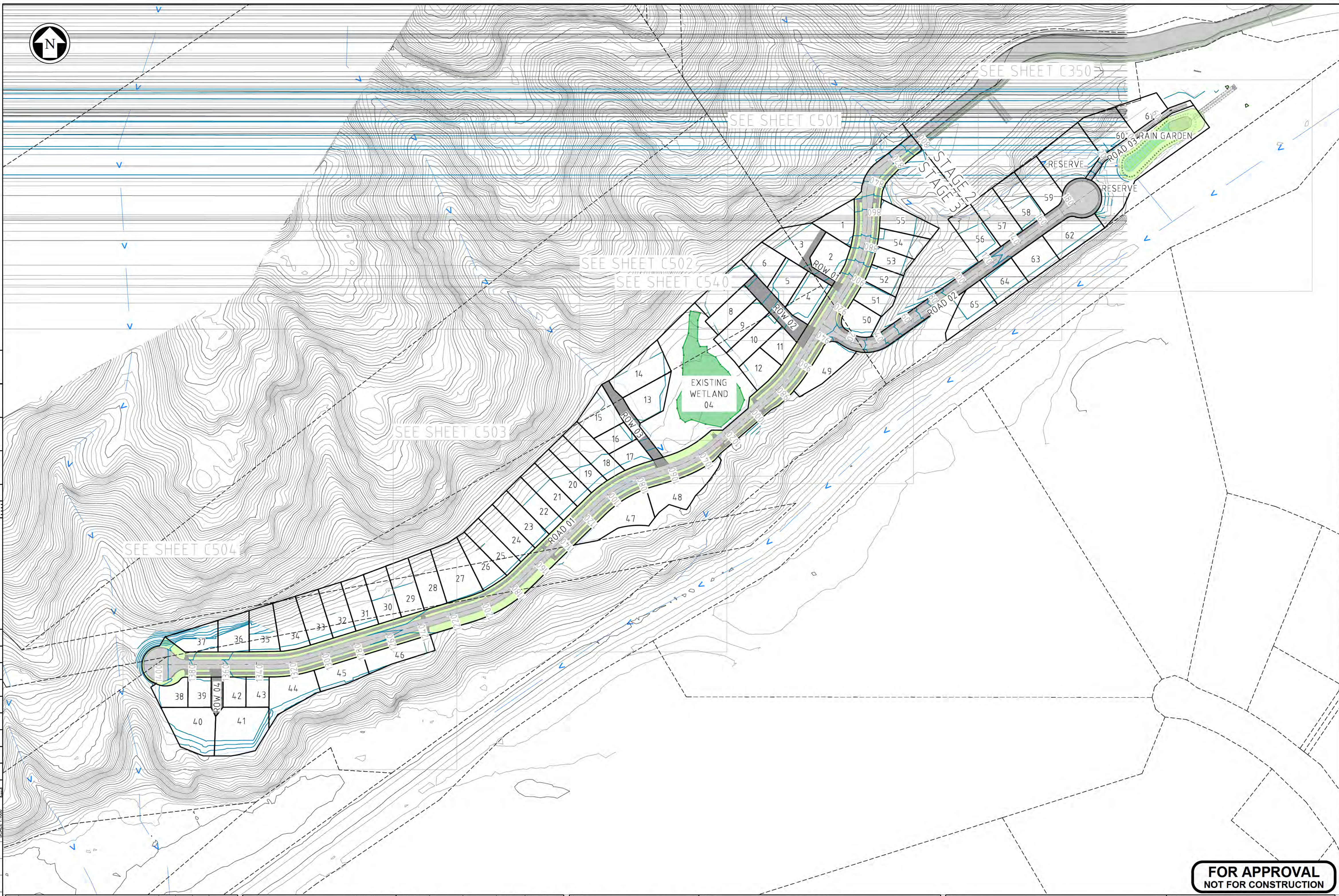
Discipline:	CIVIL
Vecta Ref. No.	26014
Drawing No.	C413
Rev.	C



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:1000
0 10 20 30 40 50



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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

	Drawing Originator Level 6, 38 Waring Taylor St Wellington, New Zealand T 04 472 9332 E admin@vecta.co.nz W www.vecta.co.nz	Original Scale (A1) AS SHOWN Reduced Scale (A3) 1/2 SHOWN	Design Drawn Dsg Verifier Dwg Check	JD ZF JM JM	26.02.12 26.02.12 26.02.12 26.02.12	Approved For Issue* Date
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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **ROADING PLAN OVERVIEW
- STAGE 3**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C500
Rev			C

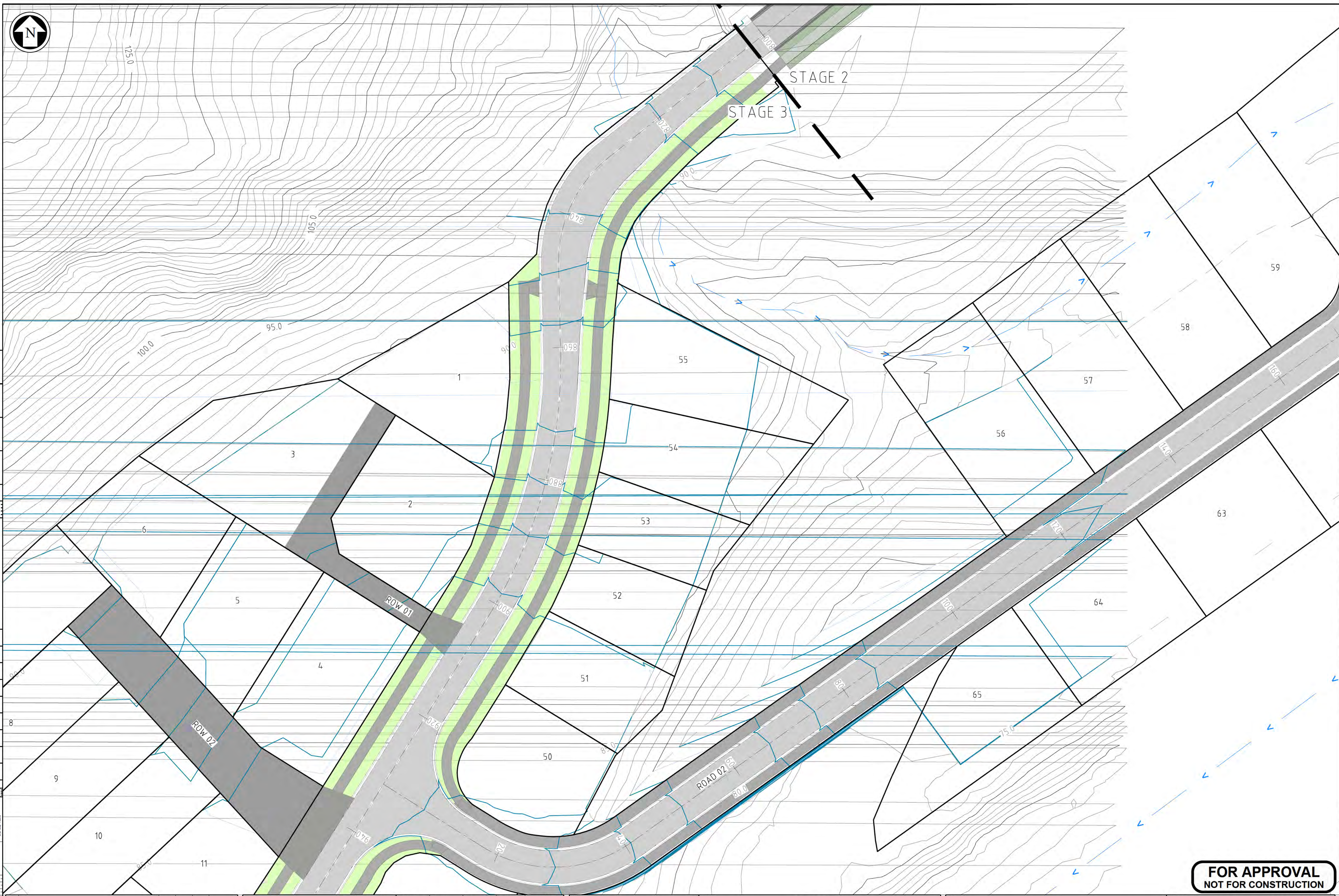
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Document No: 26014-C500-ROADING PLAN.DWG Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
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Design
Drawn
Dsg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*
Date

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **ROADING PLAN - SHEET 1**

Discipline	CIVIL		
Vecta Ref. No.	Drawing No.	Rev	
26014	C501	C	

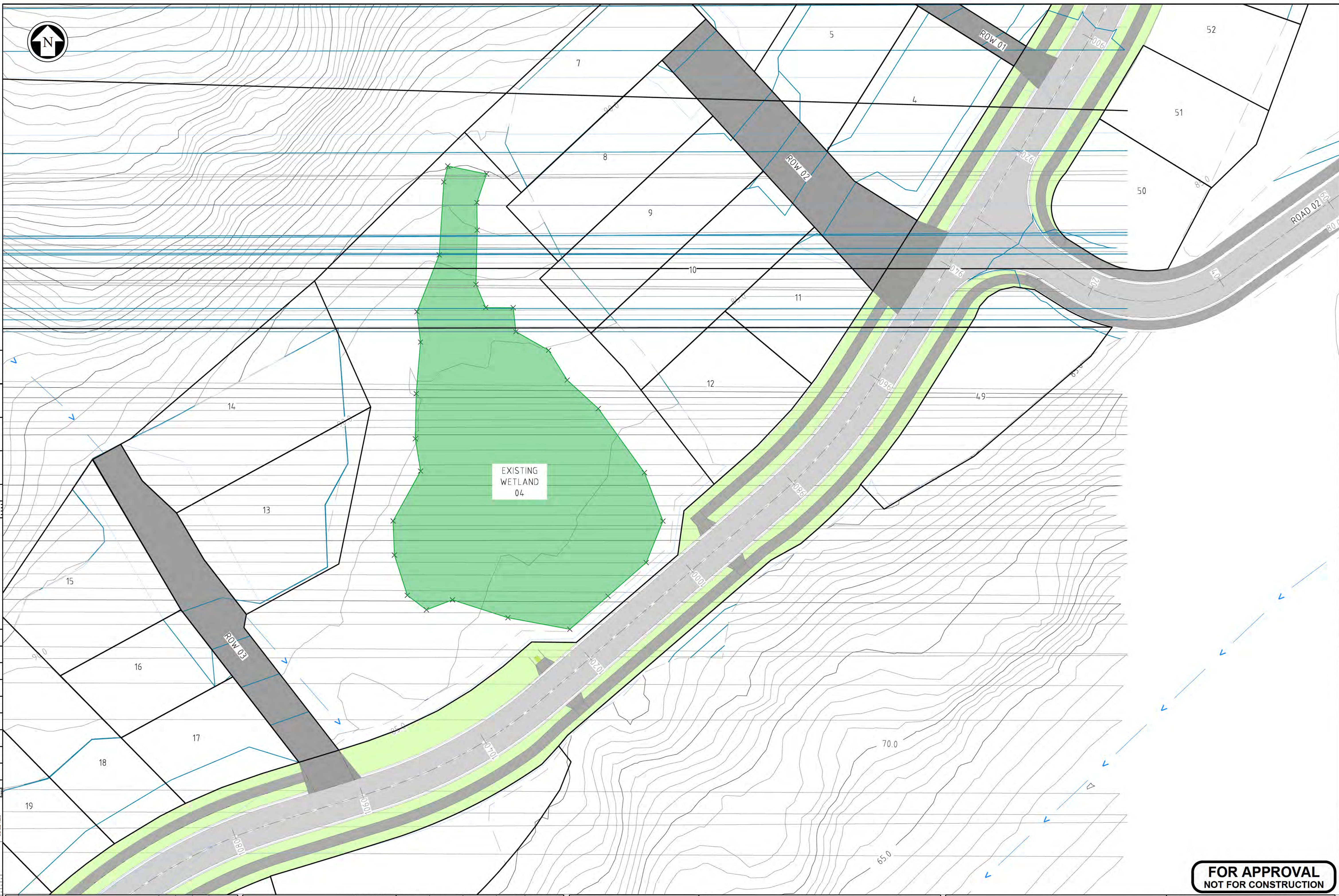
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A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

SCALE 1:250



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Reduced Scale (A3)
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Design
Drawn
Dsg Verifier
Dwg Check

JM
ZF
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*
Date

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **ROADING PLAN - SHEET 2**

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev
26014	C502	C

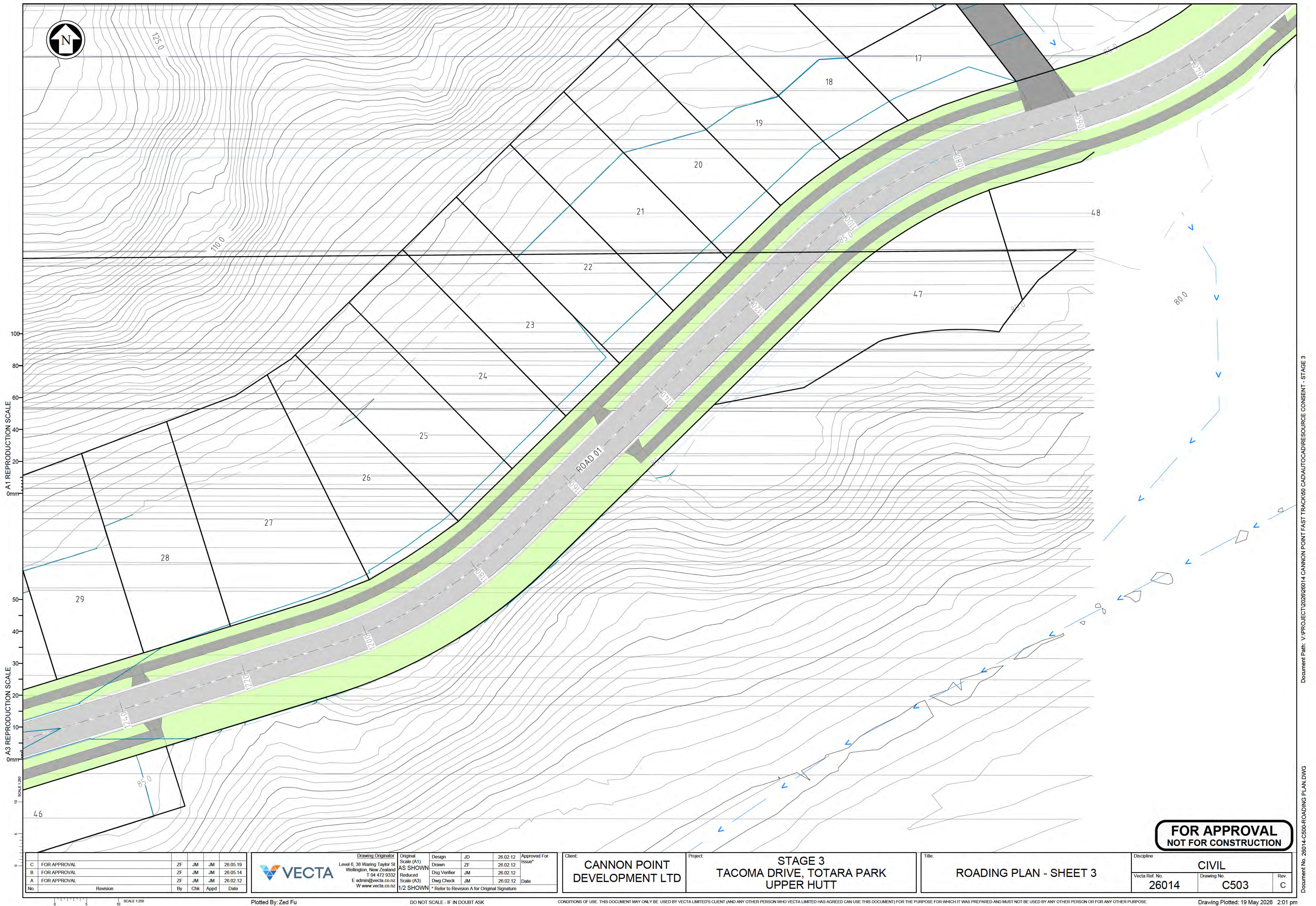
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A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm

SCALE 1:250
0 5 10

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)
AS SHOWN

Design
Drawn
Dsg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*

Date

1/2 SHOWN

* Refer to Revision A for Original Signature

Client:
CANNON POINT DEVELOPMENT LTD

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
ROADING PLAN - SHEET 3

Discipline CIVIL		
Vecta Ref. No. 26014	Drawing No. C503	Rev. C

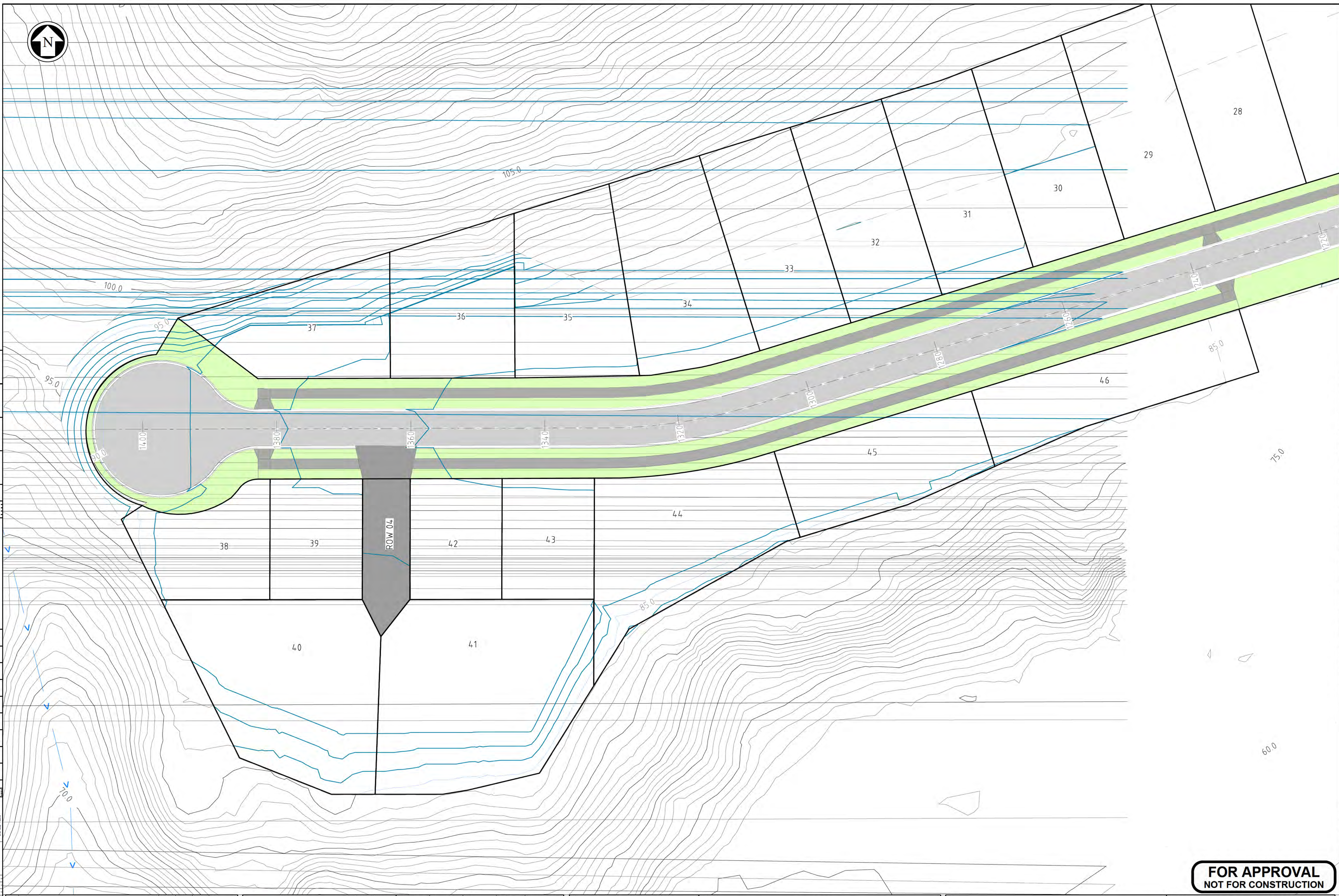
**FOR APPROVAL
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A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

0 10 20 30 40 50 60 80 100 0mm



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	Date
1/2 SHOWN	1/2 SHOWN	Dwg Check	JM	26.02.12	

* Refer to Revision A for Original Signature

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **ROADING PLAN - SHEET 4**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C504
		Rev	C

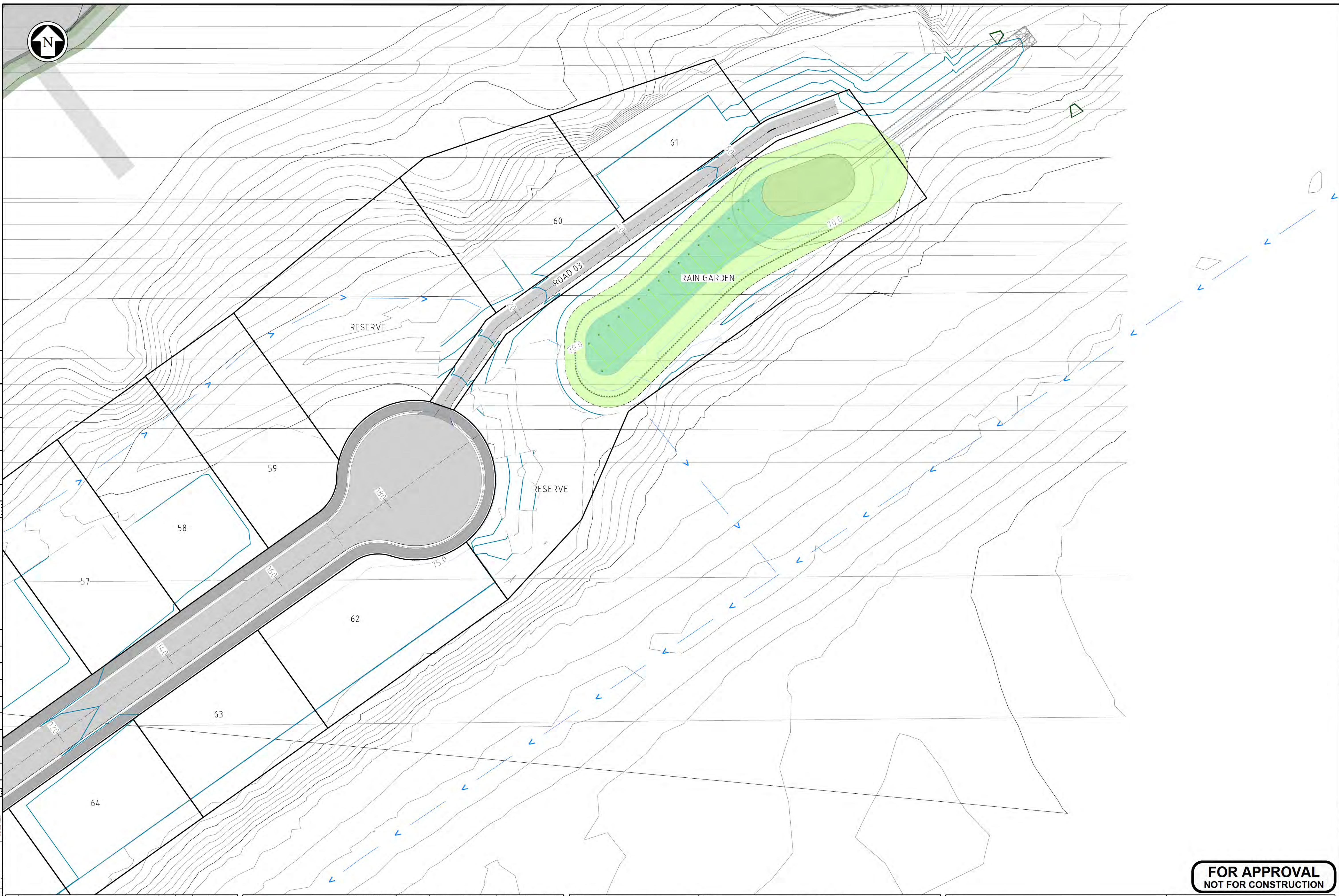
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A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Drawing Originator

Original Scale (A1)
AS SHOWN

Reduced Scale (A3)
1/2 SHOWN

Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	Date
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	

* Refer to Revision A for Original Signature

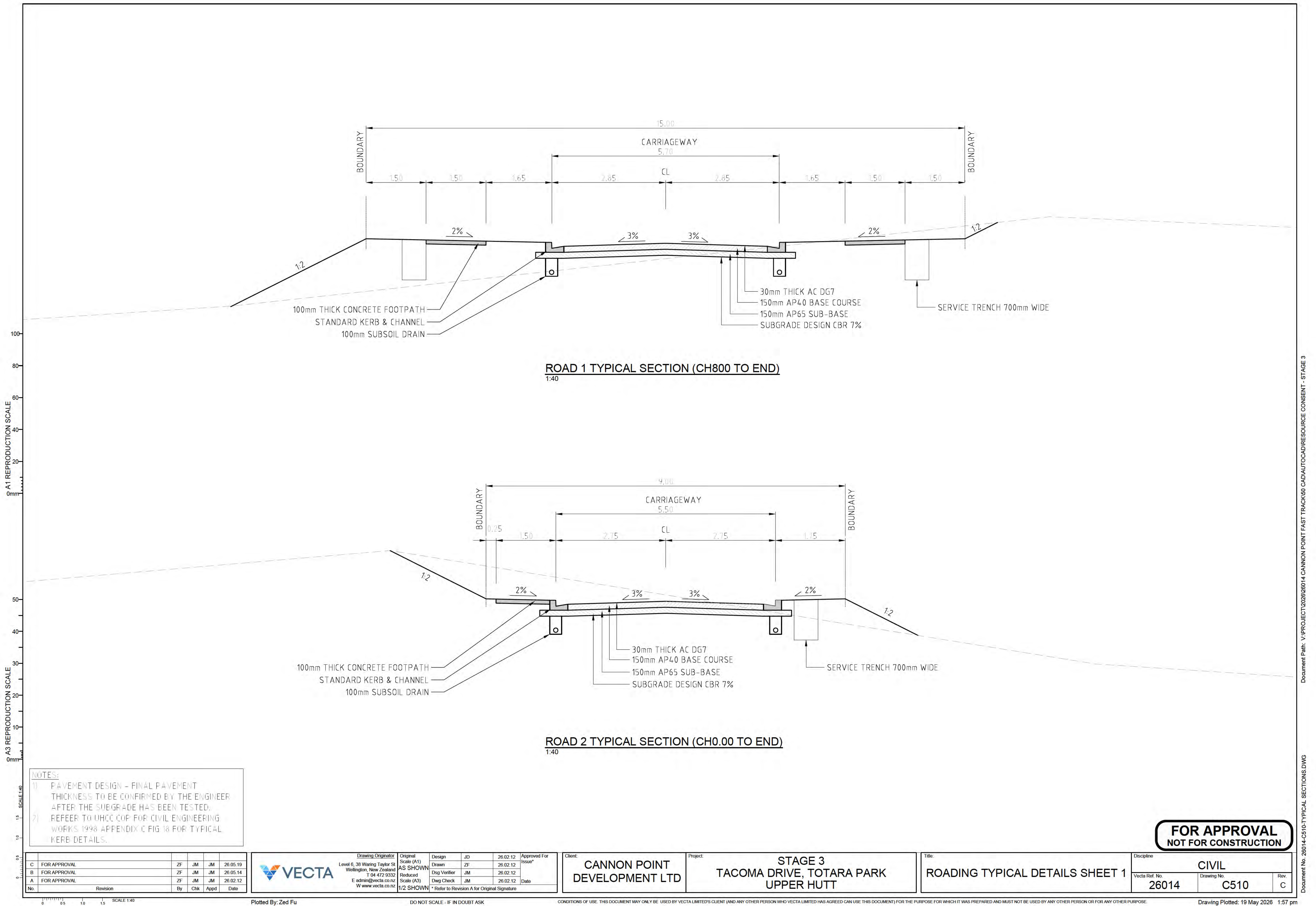
Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title: **ROADING PLAN - SHEET 5**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C505
		Rev	C

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NOTES:
1) PAVEMENT DESIGN - FINAL PAVEMENT THICKNESS TO BE CONFIRMED BY THE ENGINEER AFTER THE SUBGRADE HAS BEEN TESTED.
2) REFER TO UHCC COP FOR CIVIL ENGINEERING WORKS 1998 APPENDIX C FIG 18 FOR TYPICAL KERB DETAILS.

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF		26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM		26.02.12	Date
1/2 SHOWN	Dwg Check	JM		26.02.12	
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Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

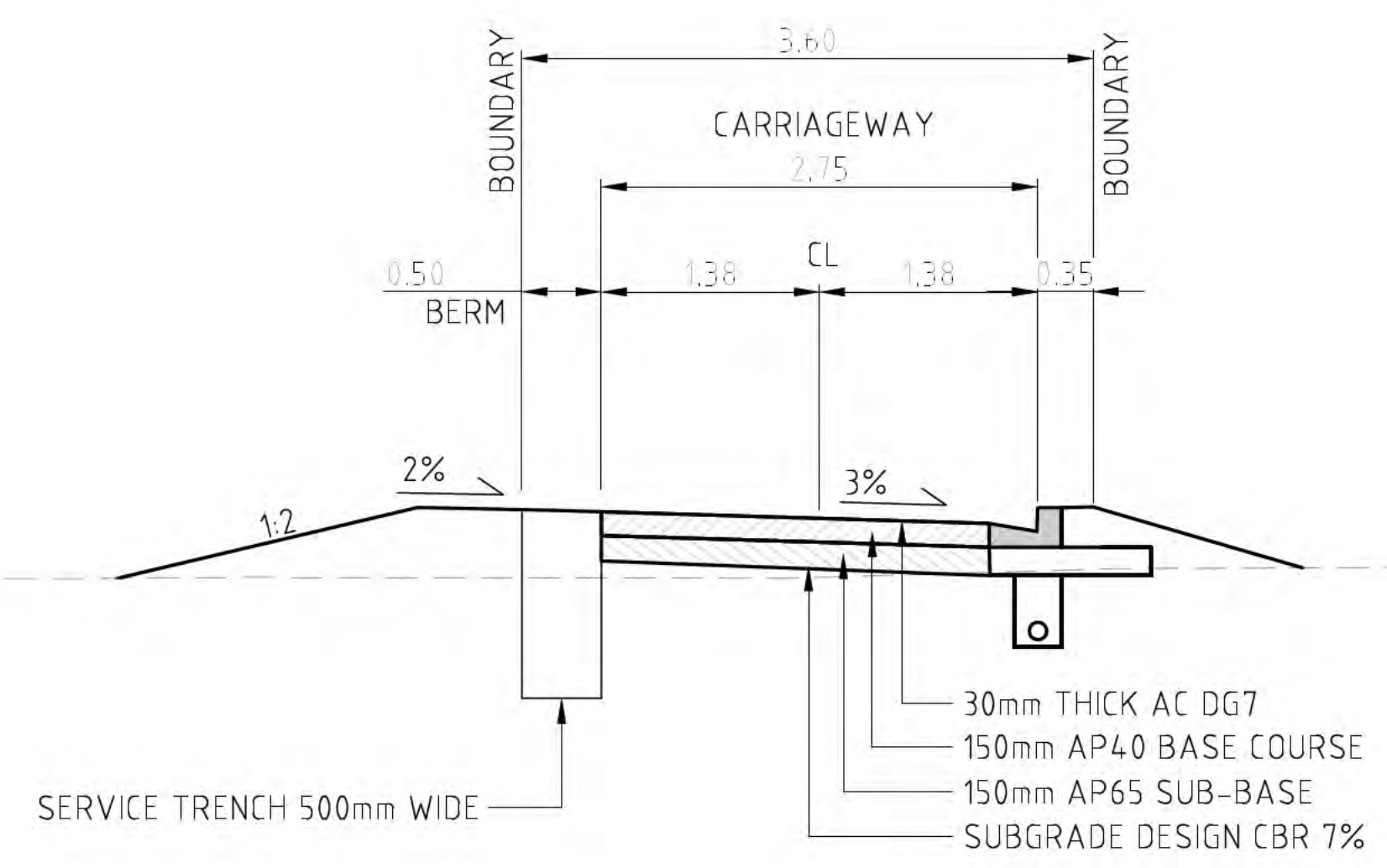
Title: **ROADING TYPICAL DETAILS SHEET 1**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C510
		Rev	C

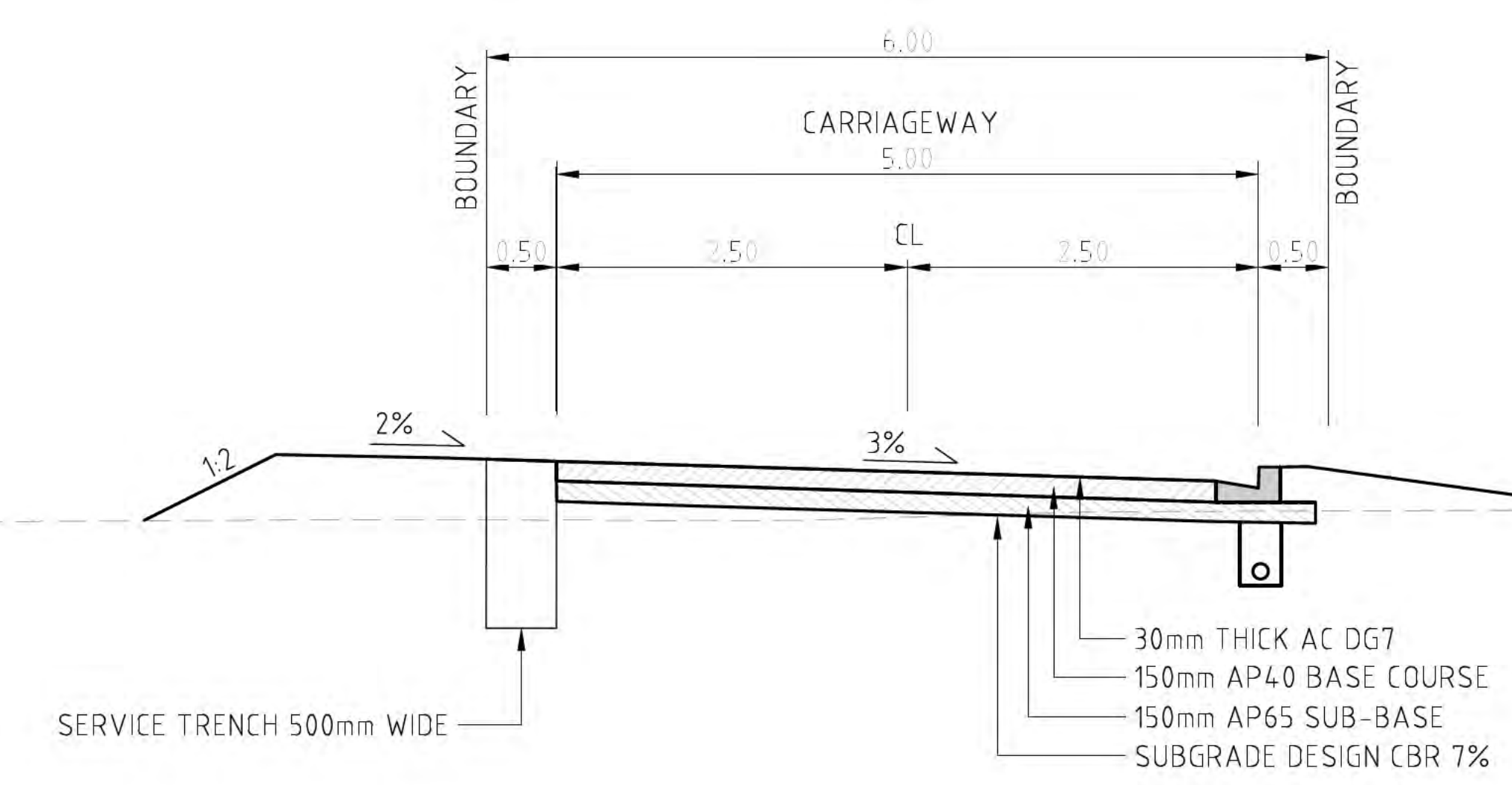
**FOR APPROVAL
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A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50



ROW 1 TYPICAL SECTION
1:40



ROW 2-4 TYPICAL SECTION
1:40

NOTES:
1) PAVEMENT DESIGN - FINAL PAVEMENT THICKNESS TO BE CONFIRMED BY THE ENGINEER AFTER THE SUBGRADE HAS BEEN TESTED.
2) REFER TO UHCC COP FOR CIVIL ENGINEERING WORKS 1998 APPENDIX C FIG 18 FOR TYPICAL KERB DETAILS.

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	
1/2 SHOWN	1/2 SHOWN	Dwg Check	JM	26.02.12	

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

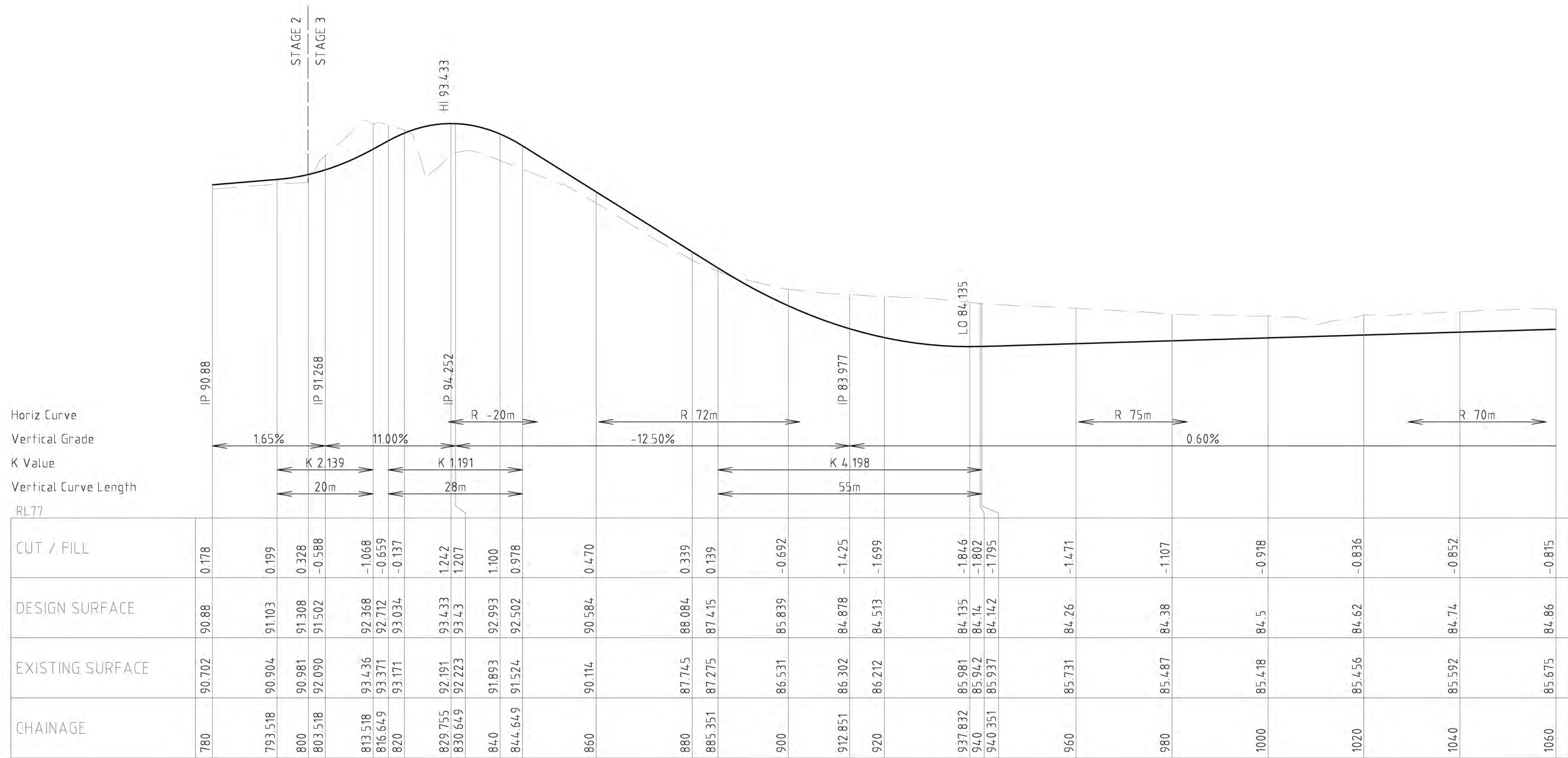
Title: **ROADING TYPICAL DETAILS SHEET 2**

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C511
Rev	C

**FOR APPROVAL
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A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50
1 SCALE 1:100



HORIZ 1:500 VERT 1:100
LONGITUDINAL SECTION - Road 1

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Disg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	Date
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Client:
CANNON POINT DEVELOPMENT LTD

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

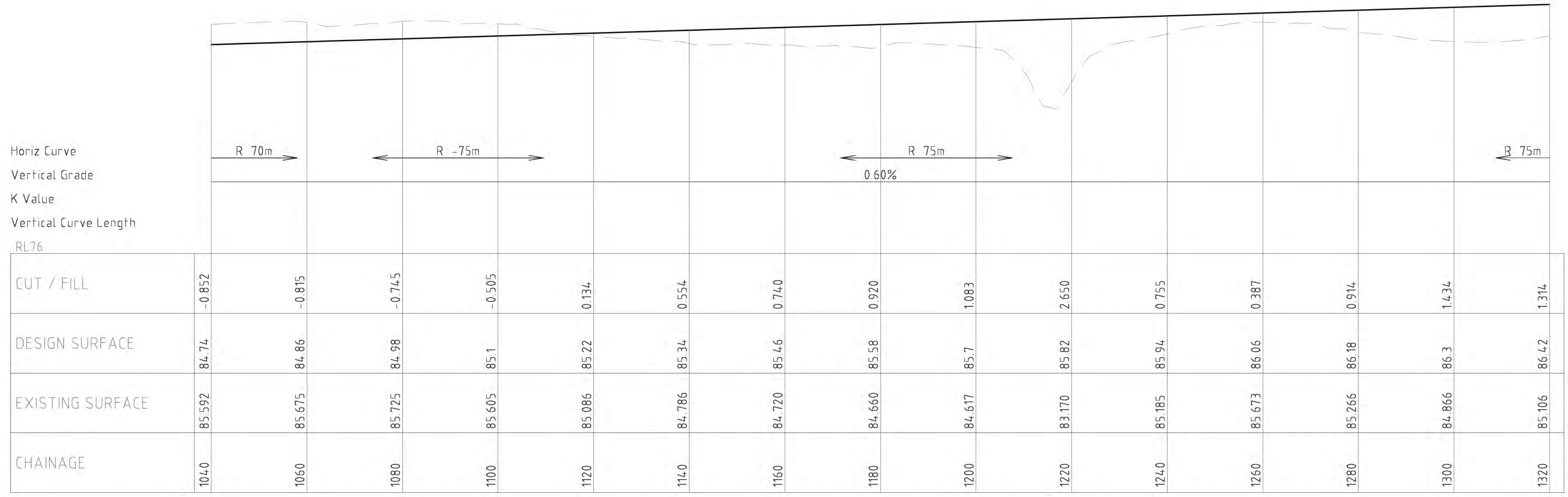
Title:
**ROAD LONGITUDINAL SECITONS
- SHEET 1**

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C520
		Rev	C

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0 A1 REPRODUCTION SCALE 100 80 60 40 20 0mm
0 A3 REPRODUCTION SCALE 100 80 60 40 20 0mm
1 SCALE 1:100

Horiz Curve
Vertical Grade
K Value
Vertical Curve Length
RL76



HORIZ 1:500 VERT 1:100
LONGITUDINAL SECTION - Road 1

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF	26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM	26.02.12	Date
1/2 SHOWN	Dwg Check	JM	26.02.12	
	* Refer to Revision A for Original Signature			

Client:
CANNON POINT DEVELOPMENT LTD

Project:
**STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT**

Title:
**ROAD LONGITUDINAL SECITONS
- SHEET 2**

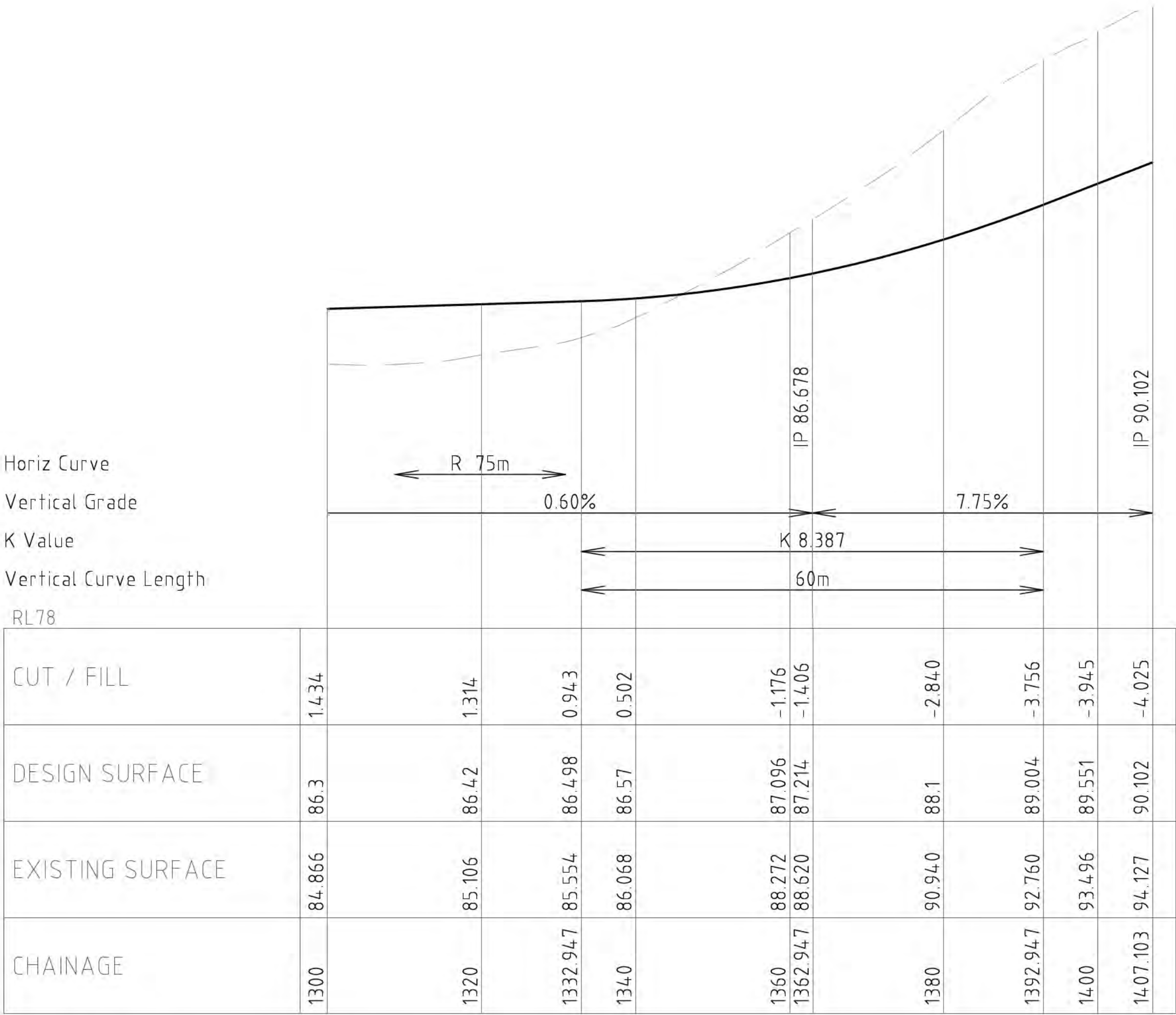
Discipline	CIVIL		
Vecta Ref. No.	Drawing No.	Rev.	
26014	C521	C	

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NOT FOR CONSTRUCTION**

0 A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

0 A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

1 SCALE 1:100
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50



HORIZ 1:500 VERT 1:100
LONGITUDINAL SECTION - Road 1

C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)

AS SHOWN

Reduced Scale (A3)

1/2 SHOWN

Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	
		Date	

Client:

CANNON POINT DEVELOPMENT LTD

Project:

STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

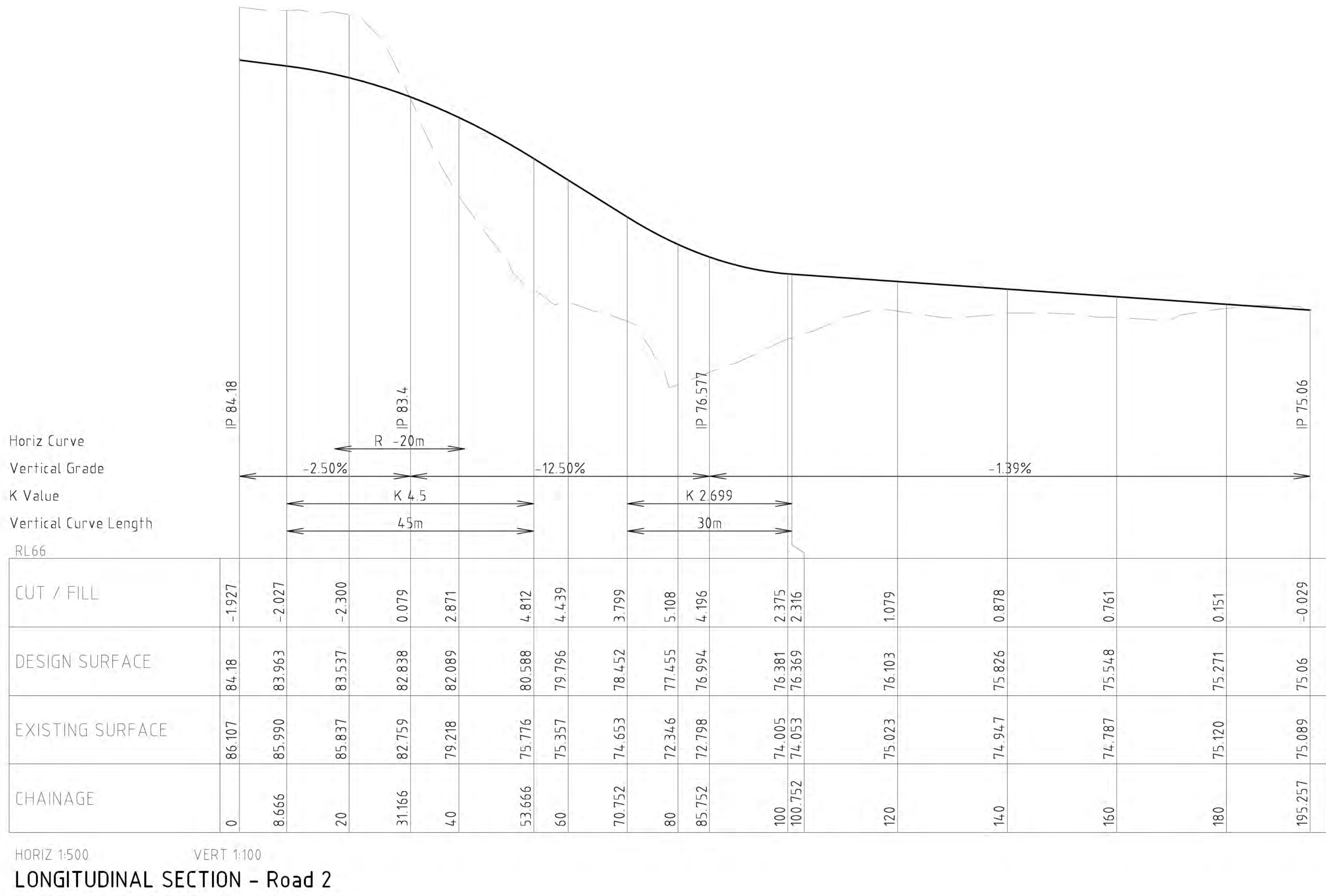
Title:

ROAD LONGITUDINAL SECITONS
- SHEET 3

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C522
Rev	C

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NOT FOR CONSTRUCTION

0 A1 REPRODUCTION SCALE 100 80 60 40 20 0mm
0 A3 REPRODUCTION SCALE 50 40 30 20 10 0mm
1 SCALE 1:100



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date



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Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design
Drawn
Dsg Verifier
Dwg Check

JD
ZF
JM
JM

26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*
Date

Client:	CANNON POINT DEVELOPMENT LTD
Project:	STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT

Title:	ROAD LONGITUDINAL SECITONS - SHEET 4
Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C523
Rev.	C

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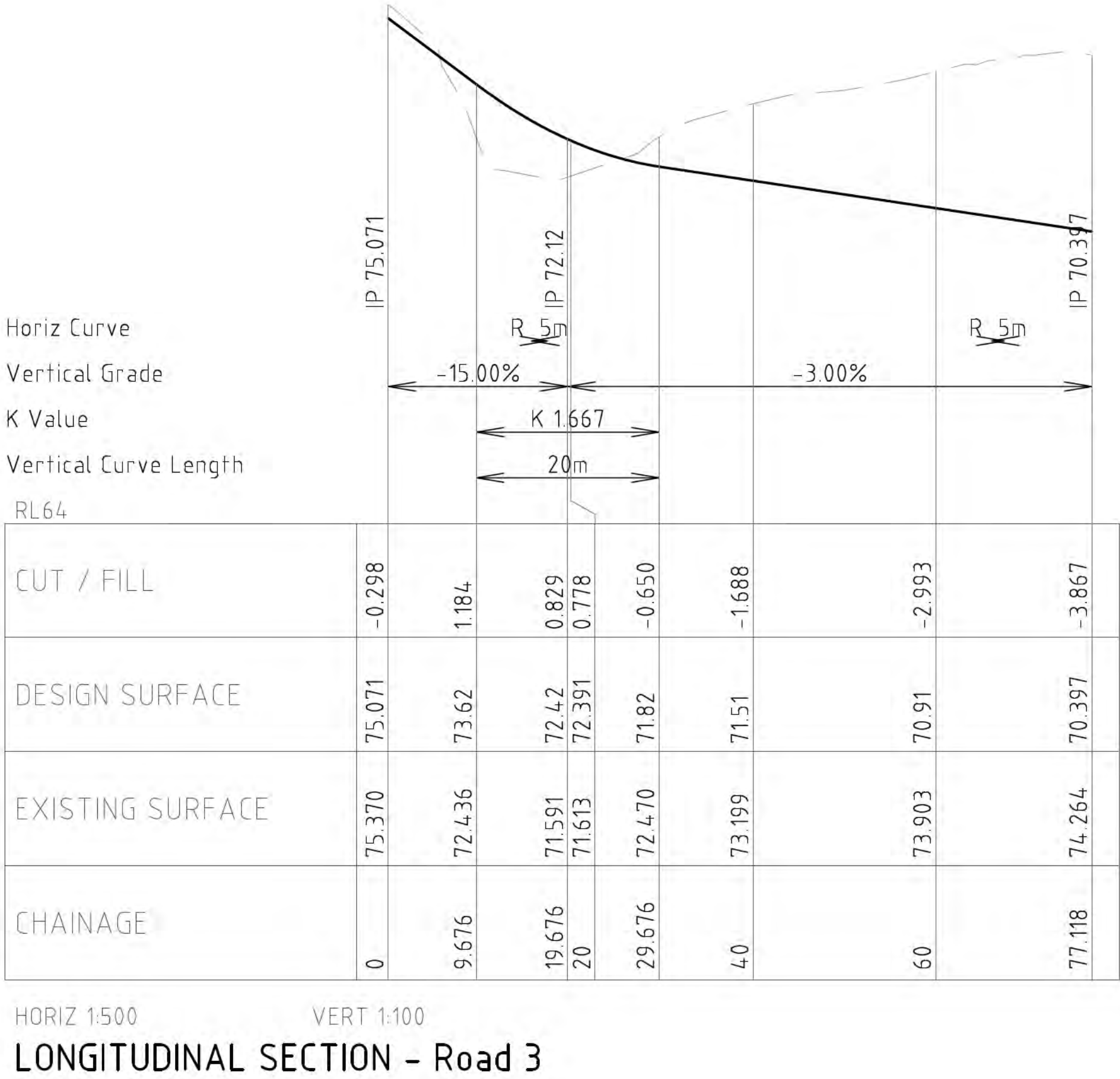
Document No. 26014-C520-ROAD L5.DWG

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\60 CAD\AUTO\CAD\RESOURCE CONSENT - STAGE 3

0 A1 REPRODUCTION SCALE
0mm

0 A3 REPRODUCTION SCALE
0mm

1 SCALE 1:100
0



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
No.	Revision	By	Chk	Appd	Date

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Reduced Scale (A3)
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Design	JD	26.02.12	Approved For Issue*
Drawn	ZF	26.02.12	
Dsg Verifier	JM	26.02.12	
Dwg Check	JM	26.02.12	
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Client:

CANNON POINT DEVELOPMENT LTD

Project:

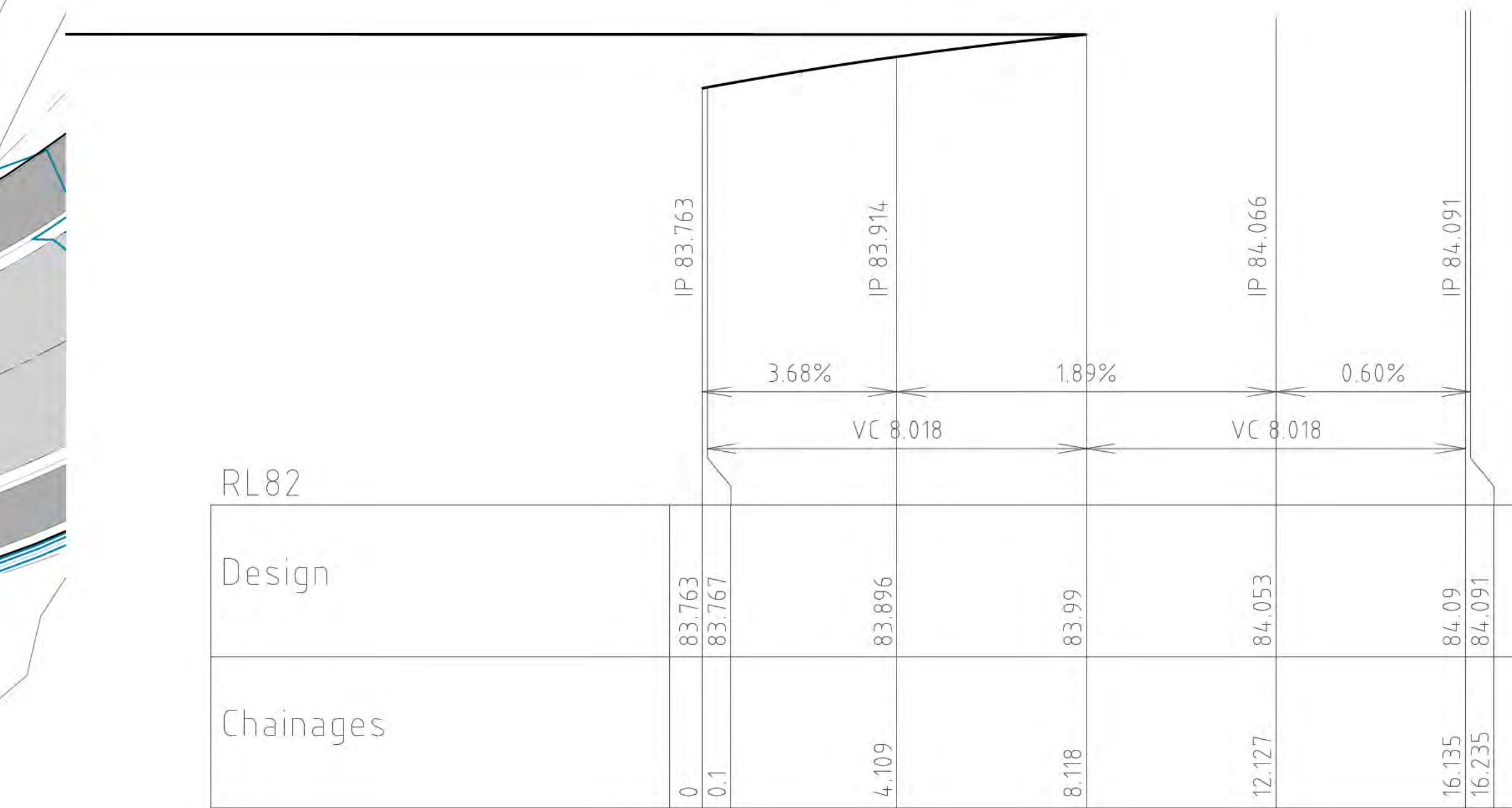
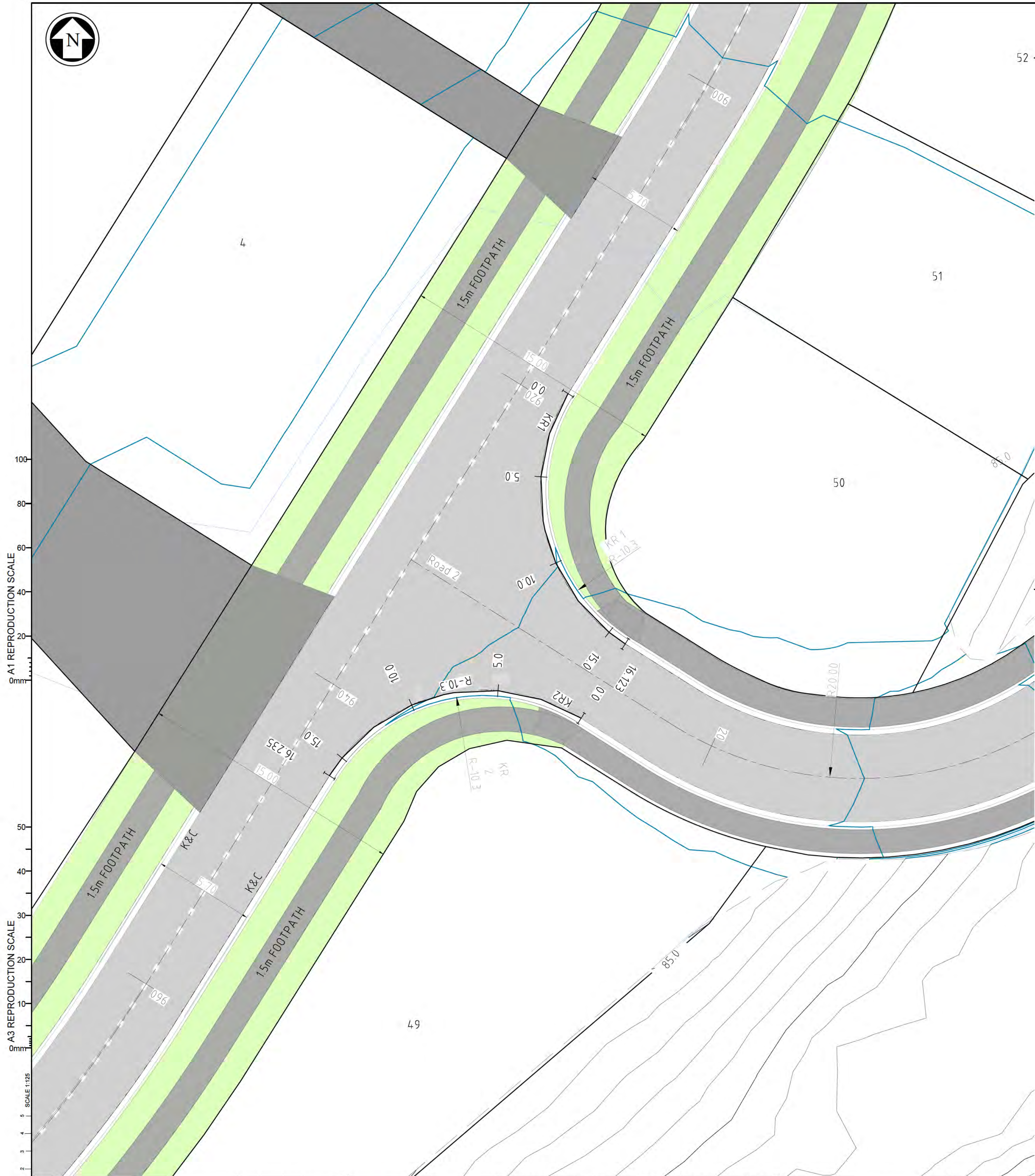
STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title:

ROAD LONGITUDINAL SECITONS
- SHEET 5

Discipline	CIVIL		
Vecta Ref. No.	26014	Drawing No.	C524
		Rev	C

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- NOTES:
- 1) EXISTING CONTOURS AT 1m INTERVALS.
 - 2) DESIGN CONTOURS AT 1m INTERVALS.
 - 3) REFER TO SHEET C510 FOR ROADING TYPICAL DETAILS
 - 4) REFER TO LEGENDS AND GENERAL NOTES SHEET C002.

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C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	ZF	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator	Original Scale (A1)	Design	JD	26.02.12	Approved For Issue*
AS SHOWN	Drawn	ZF		26.02.12	
Reduced Scale (A3)	Dsg Verifier	JM		26.02.12	
1/2 SHOWN	Dwg Check	JM		26.02.12	
					Date

Client: **CANNON POINT DEVELOPMENT LTD**

Project: **STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT**

Title: **KERB RETURNS LONGITUDINAL SECTIONS SHEET 1**

Discipline	CIVIL
Vecta Ref. No.	26014
Drawing No.	C525
Rev	C



CHAINAGE	DESIGN SURFACE	VERTICAL GRADE	VERTICAL CURVE LENGTH
0	75.086		
0.1	75.086		
1.166	75.068	-0.53%	2.131m
2.231	75.026	-5.06%	2.131m
3.297	74.97	-6.00%	
4.363	74.909		
4.463	74.903		

HORIZ 1:100 VERT 1:20
LONGITUDINAL SECTION - KR3

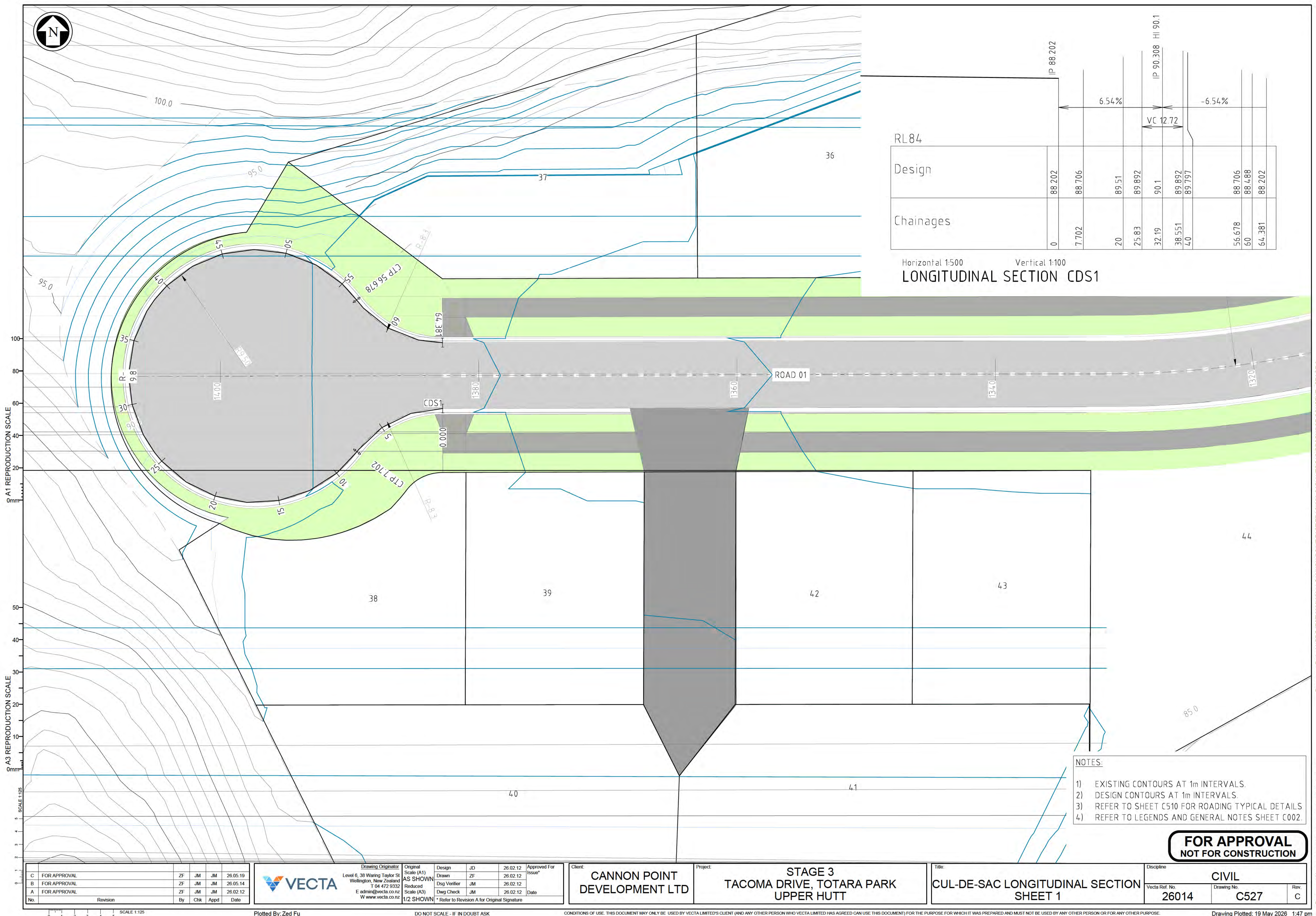
CHAINAGE	DESIGN SURFACE
0	74.828
0.1	74.834
1.169	74.903
2.237	74.981
3.306	75.043
4.336	75.062
4.474	75.062

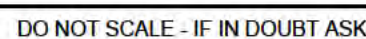
HORIZ 1:100 VERT 1:20
LONGITUDINAL SECTION - KR4

- | | |
|--|--|
| <p>NOTES:</p> <ol style="list-style-type: none"> 1) EXISTING CONTOURS AT 1m INTERVALS. 2) DESIGN CONTOURS AT 1m INTERVALS. 3) REFER TO SHEET C510 FOR ROADING TYPICAL DETAILS 4) REFER TO LEGENDS AND GENERAL NOTES SHEET C002. | |
|--|--|

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Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C526	C





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Client: CANNON POINT DEVELOPMENT LTD

Title: ROAD 01
CROSS SECTIONS
SHEET 1

Discipline		
CIVIL		
Vecta Ref. No.	Drawing No.	Rev.
26014	C530	C

Document Path: V:\PROJECT\2026\26014 CANNON POINT FAST TRACK\50 CAD\AUTOCAD\RESOURCE CONSENT - STAGE 3

Document No. 26014-C530-ROAD XS.DWG

Drawing Plotted: 19 May 2026 1:55 pm

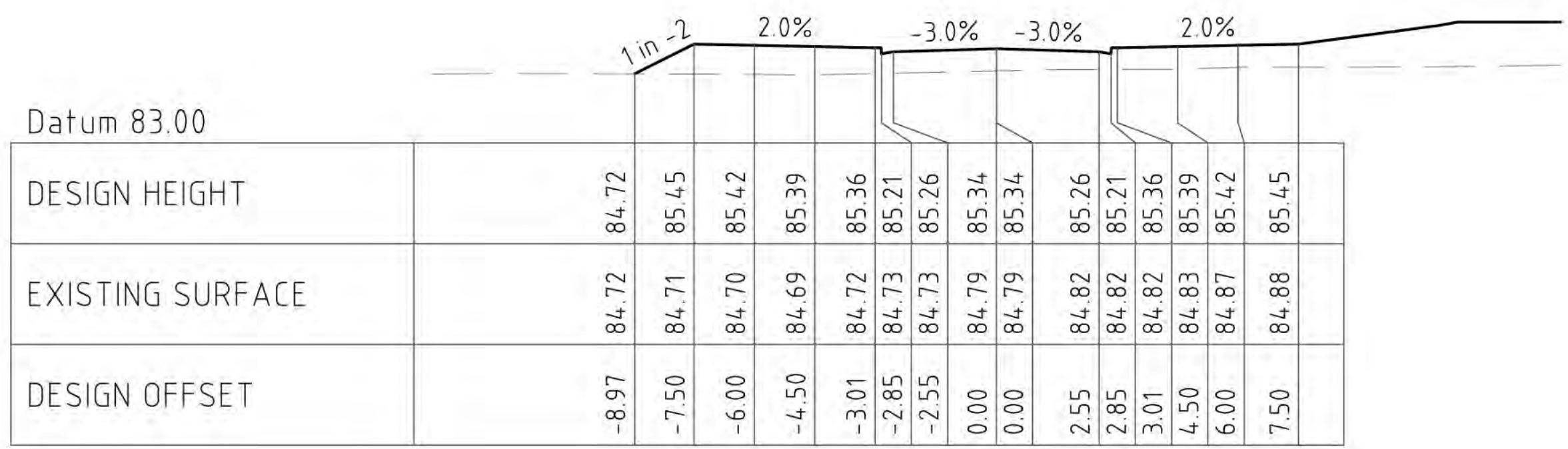
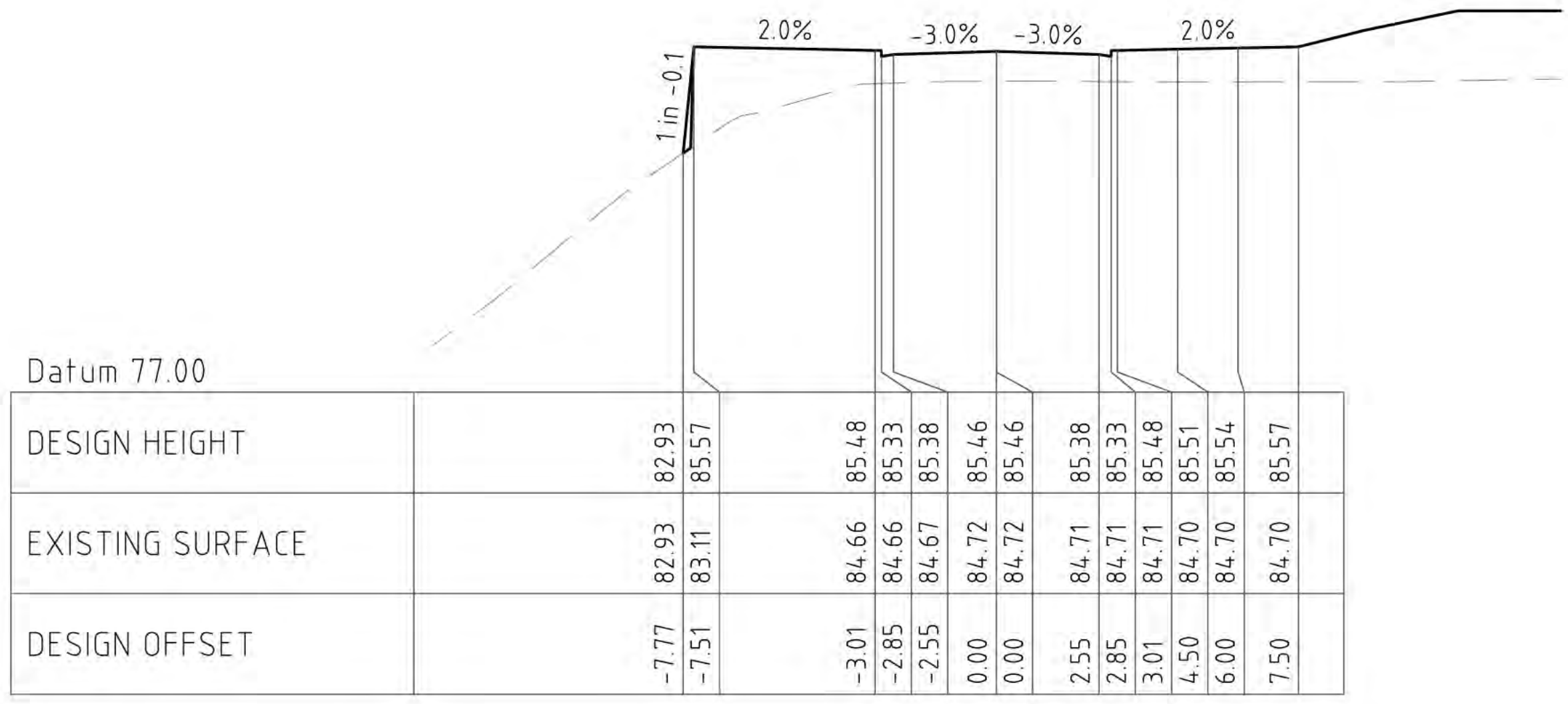
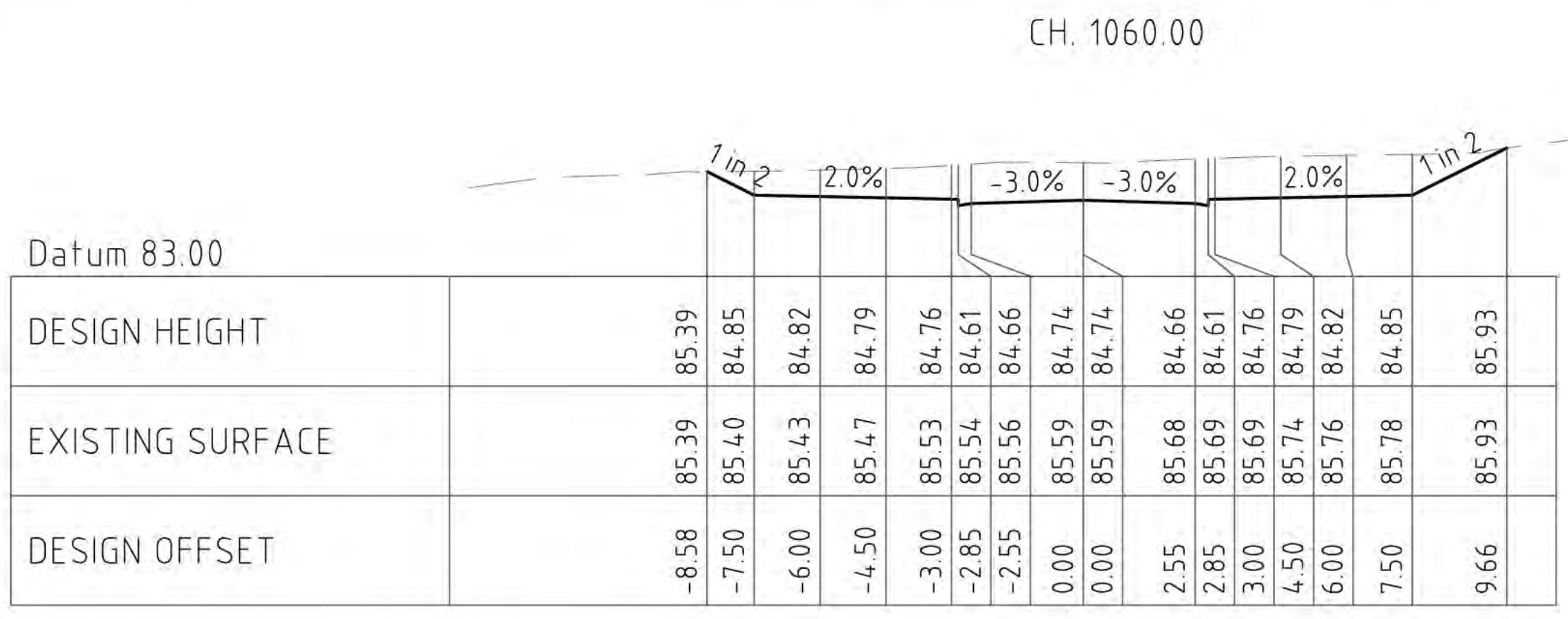
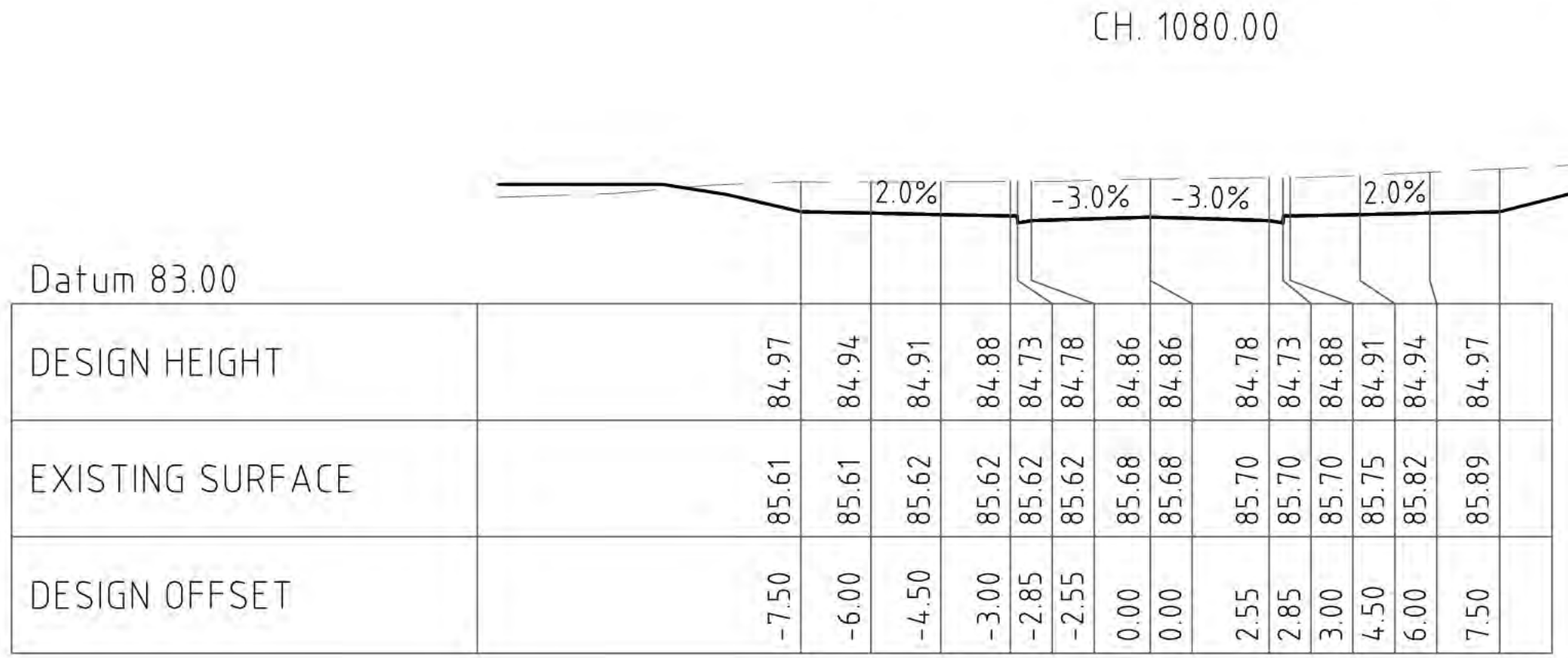
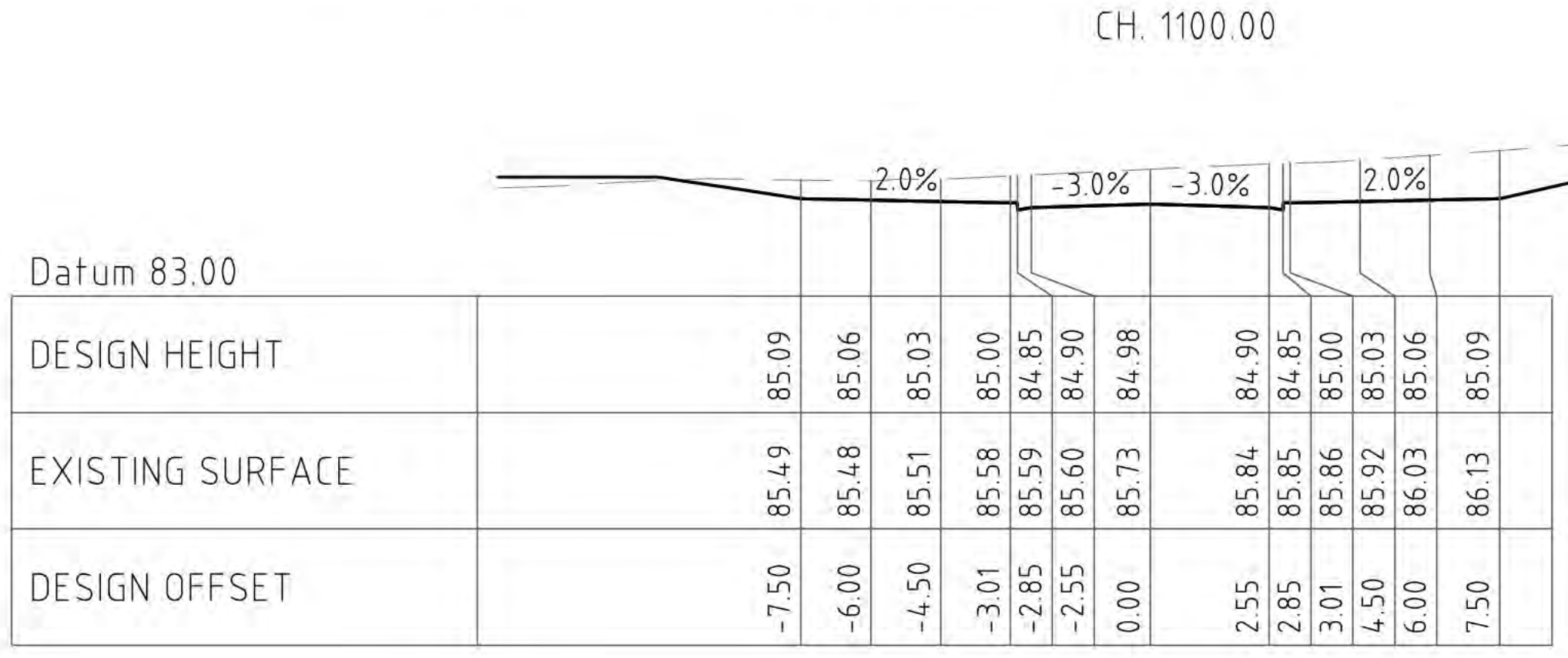
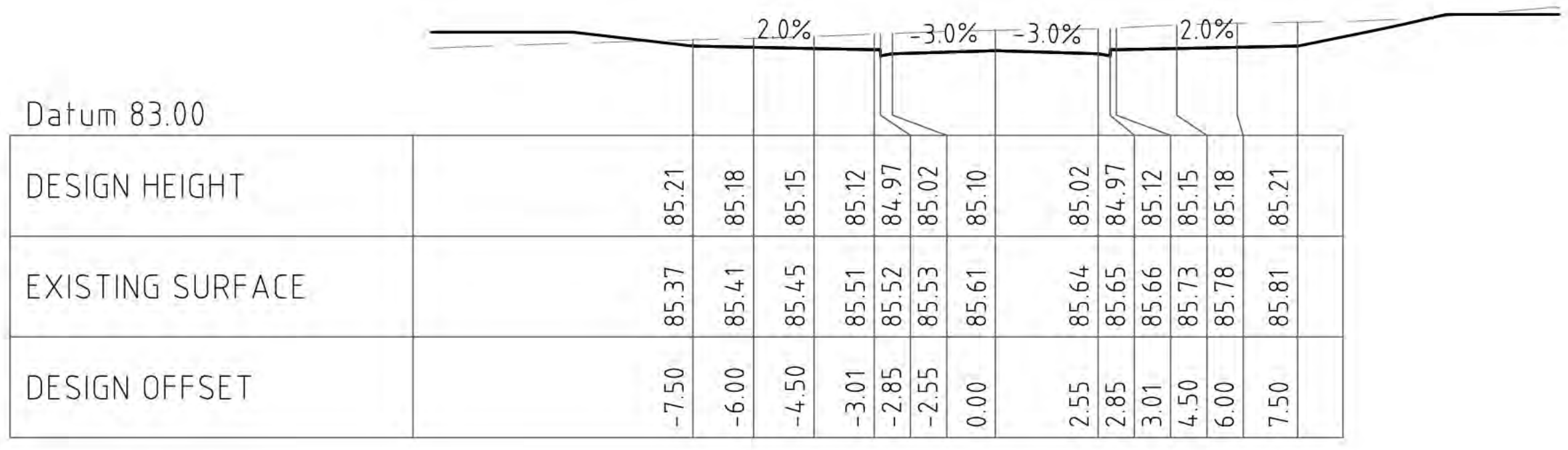


Discipline			CIVIL		
Vecta Ref. No.		Drawing No.		Rev.	
26014		C531		C	

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A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SCALE 1:125
0 1 2 3 4 5

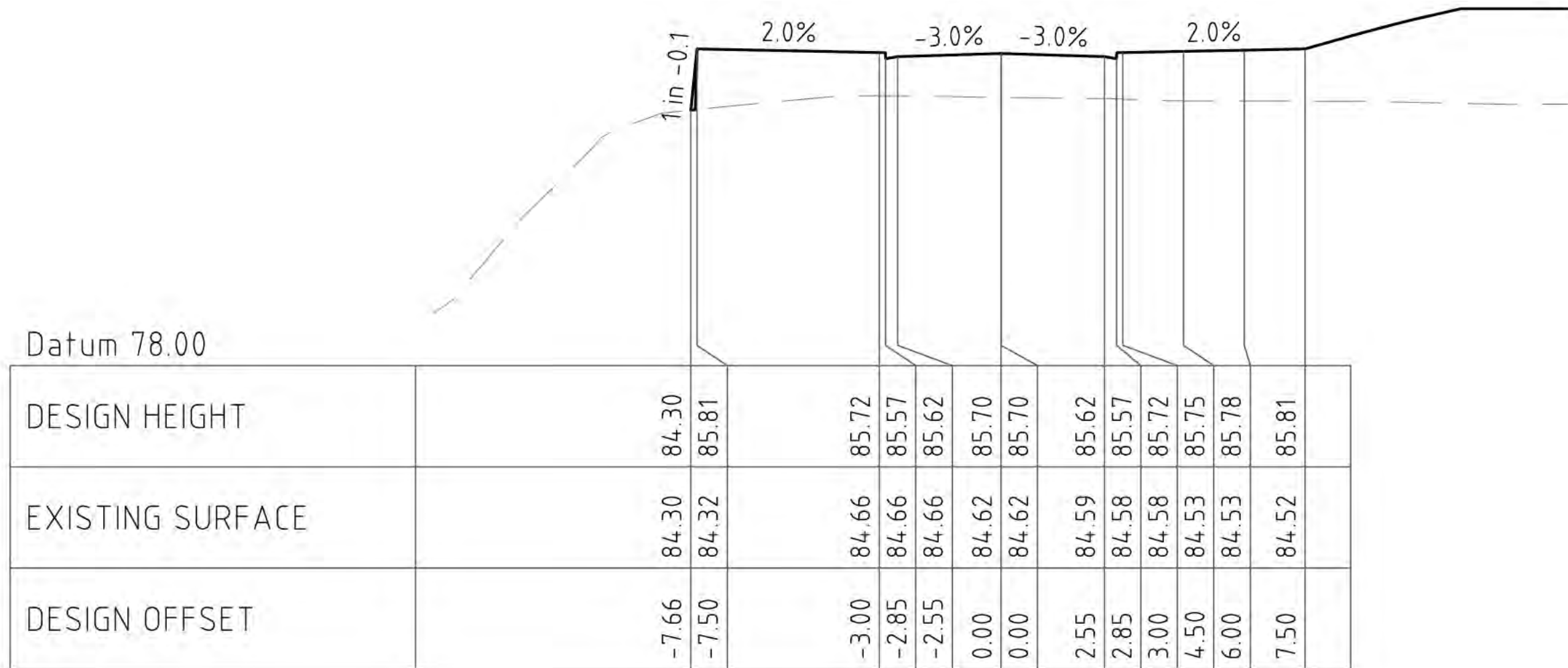


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NOT FOR CONSTRUCTION

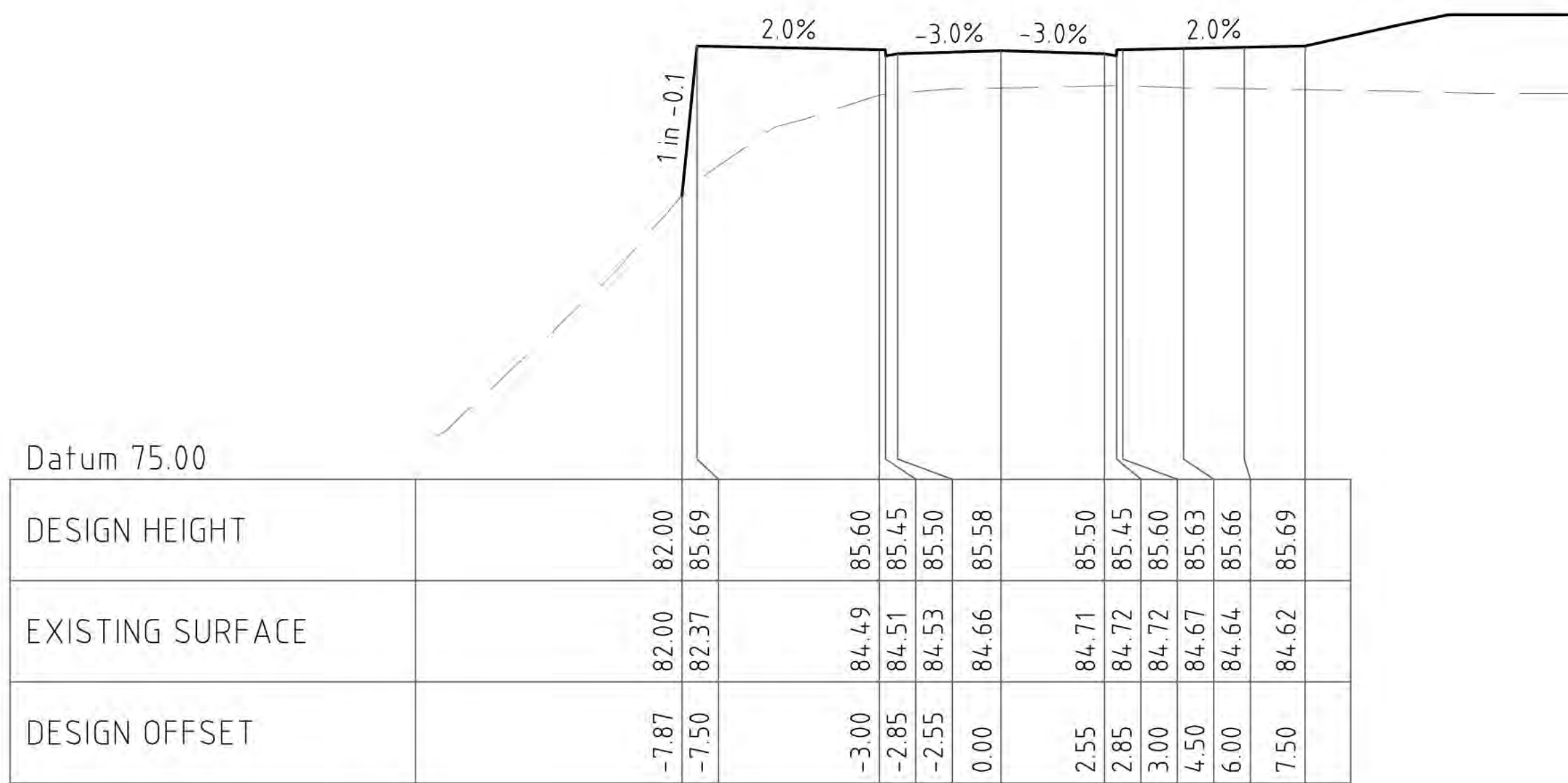
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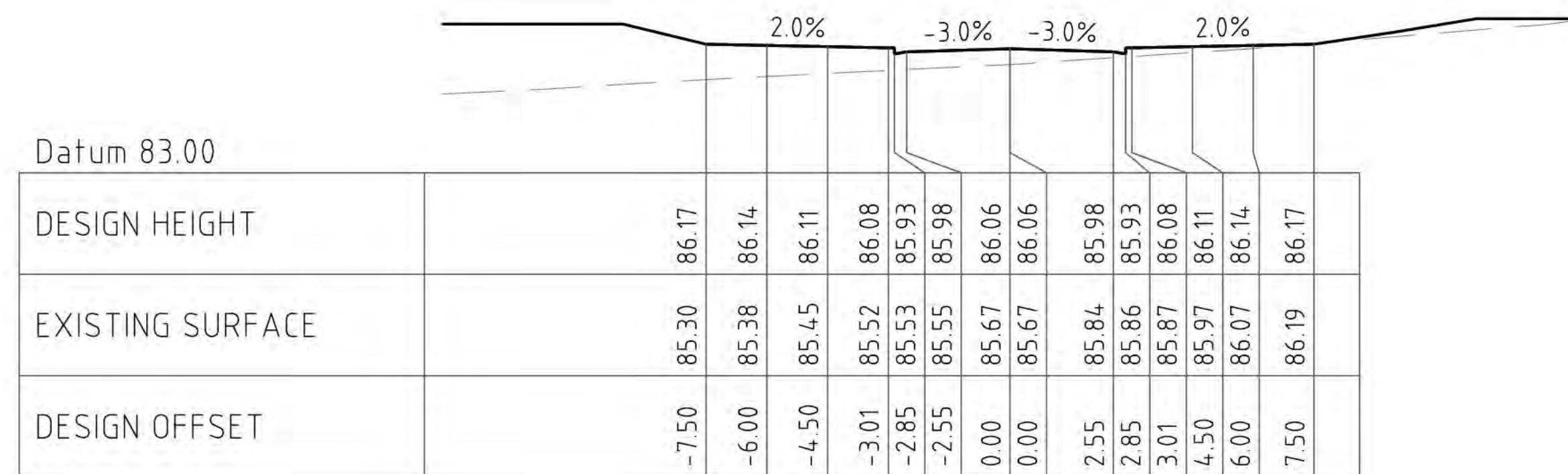
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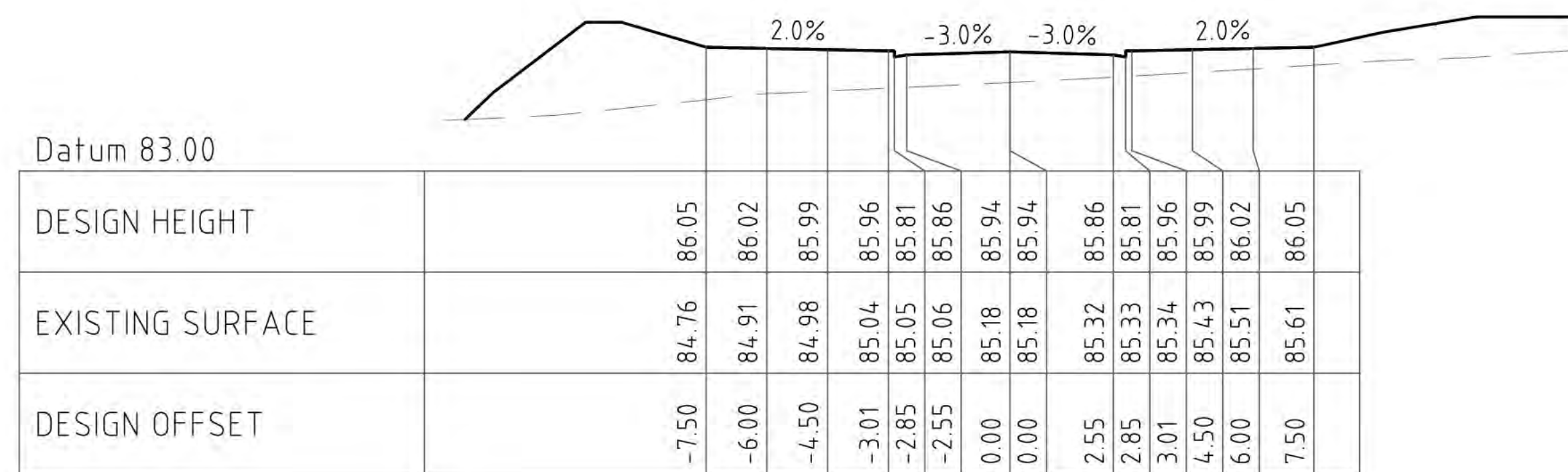
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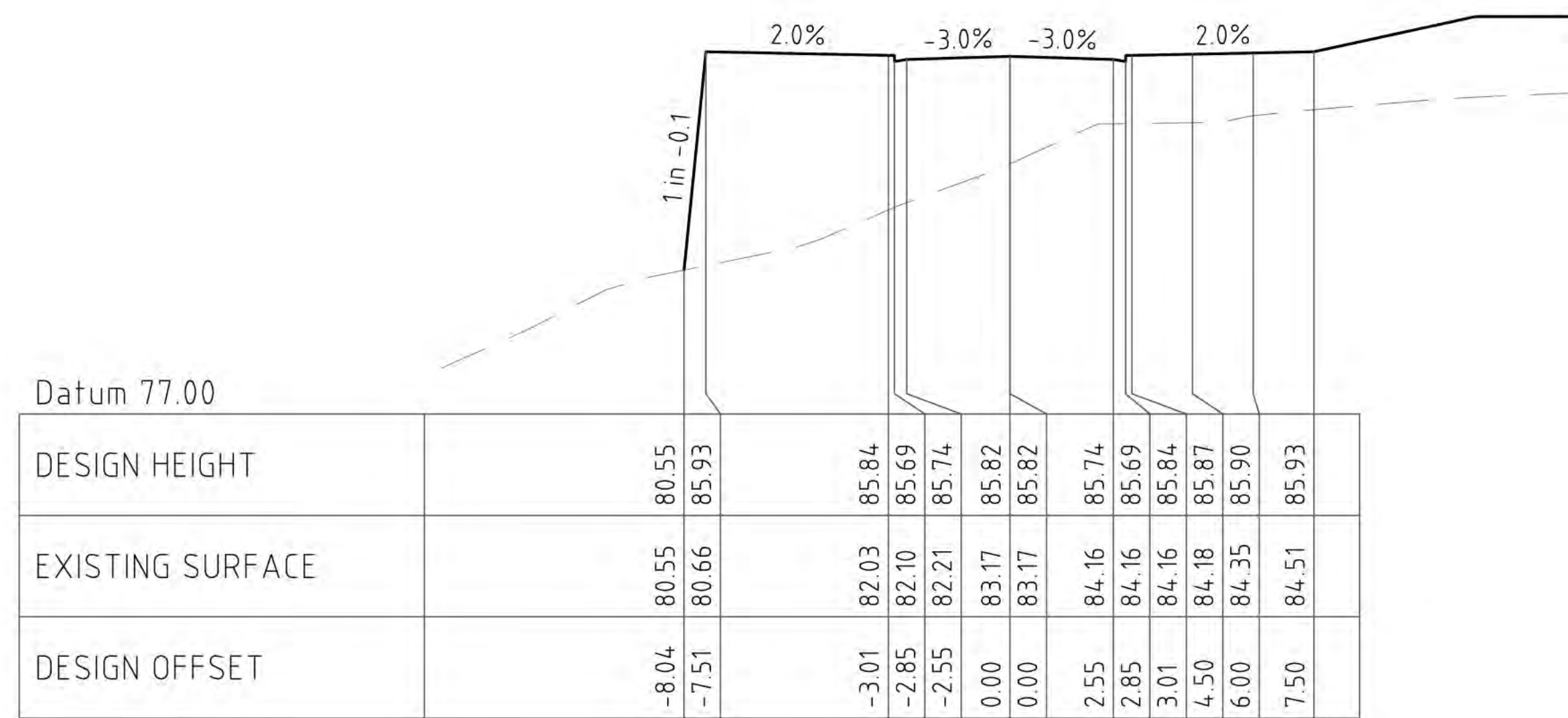
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CH. 1260.00



CH. 1240.00



CH. 1220.00

No.	Revision	By	Chk	Appd	Date
C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12

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Drawing Originator	Original Scale (A1)	Design	Drawn	Disg Verifier	Dwg Check	Approved For Issue*
AS SHOWN	AS SHOWN	JD	JD	JM	JM	26.02.12
Reduced Scale (A3)	1/2 SHOWN					

Client: **CANNON POINT DEVELOPMENT LTD**

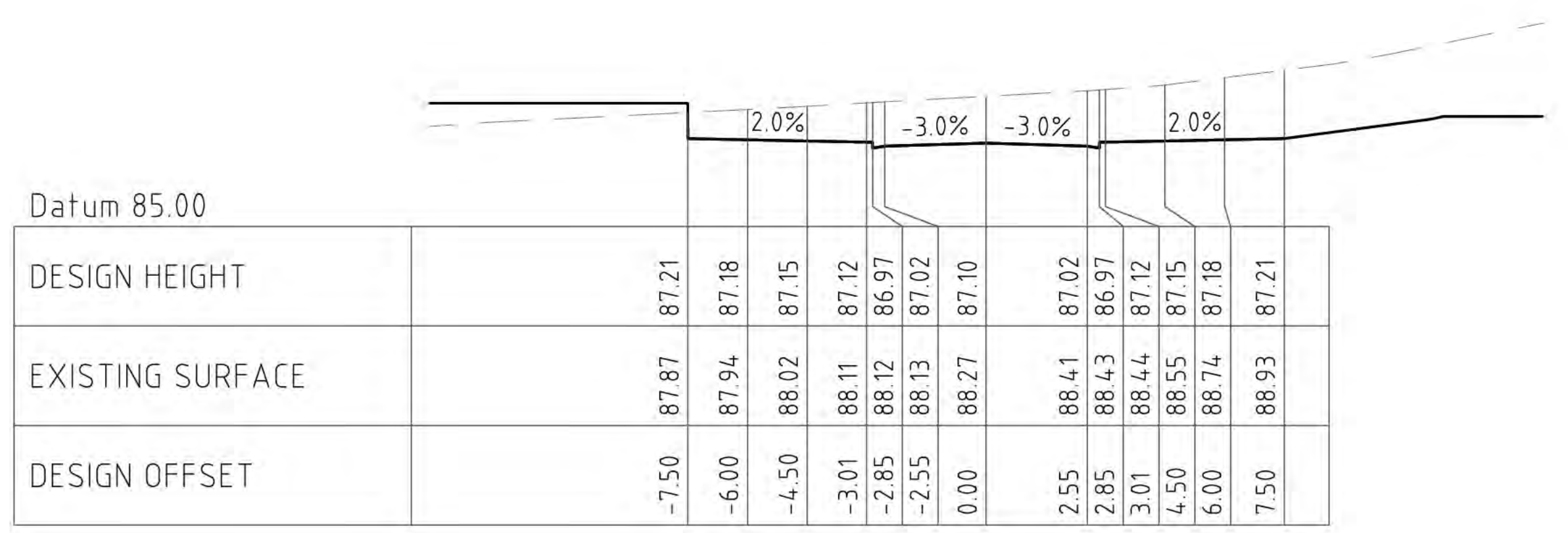
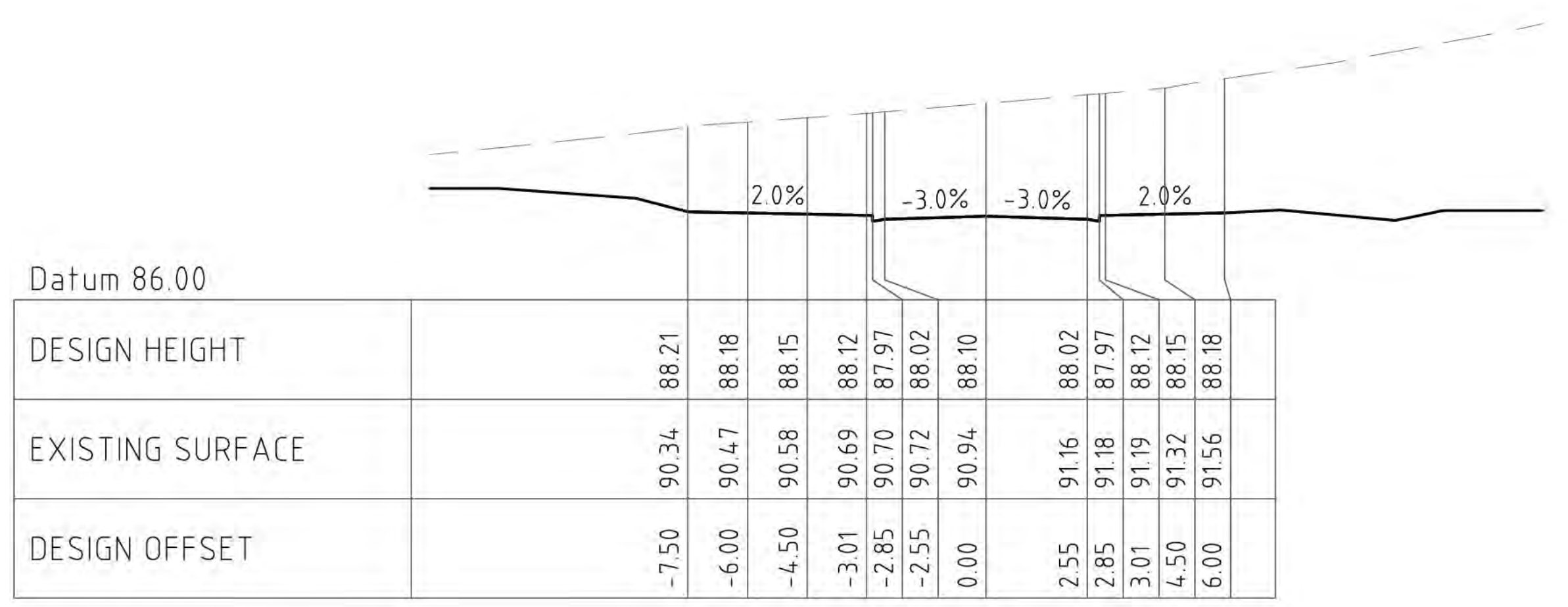
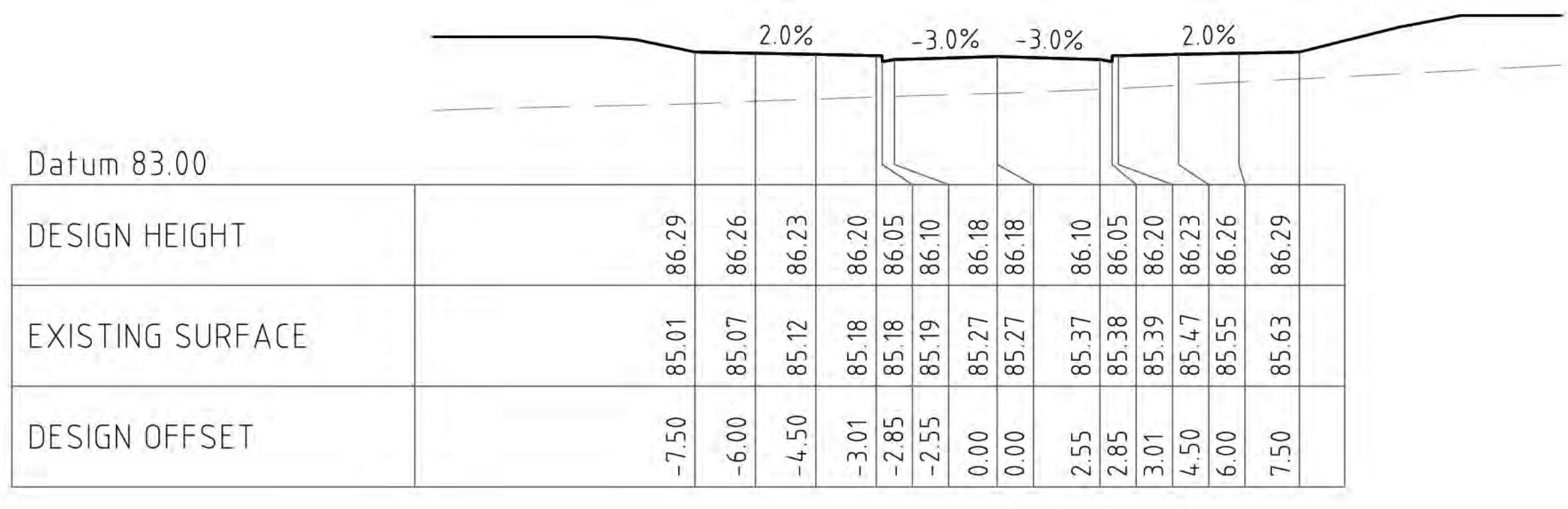
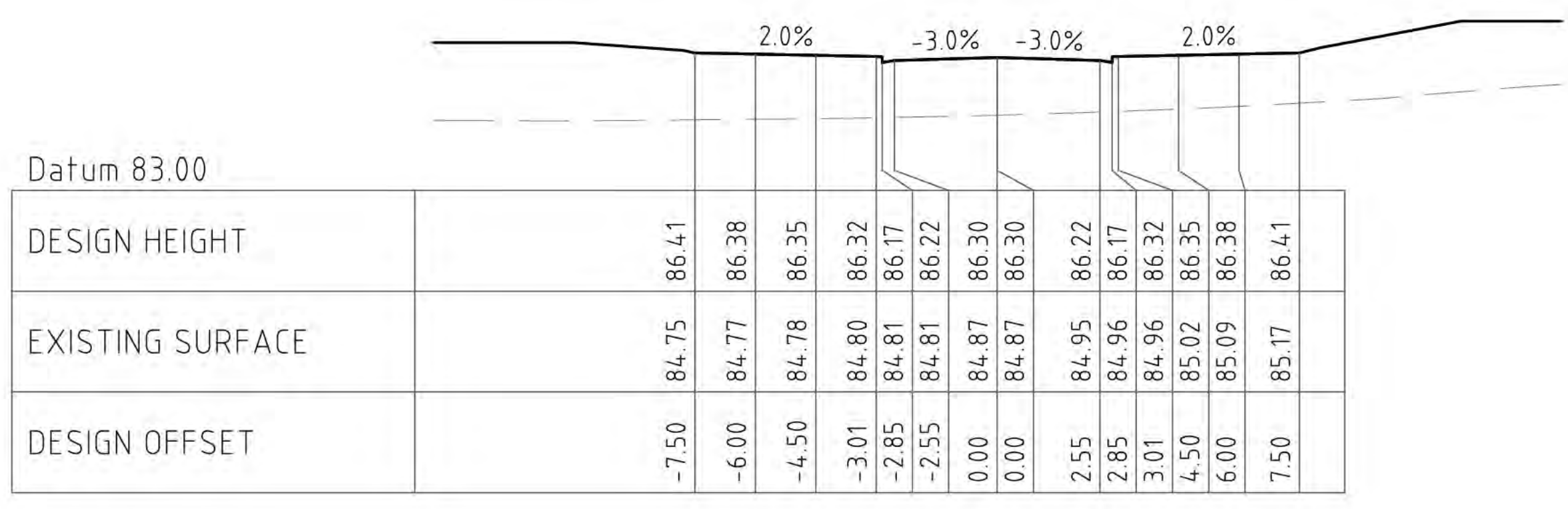
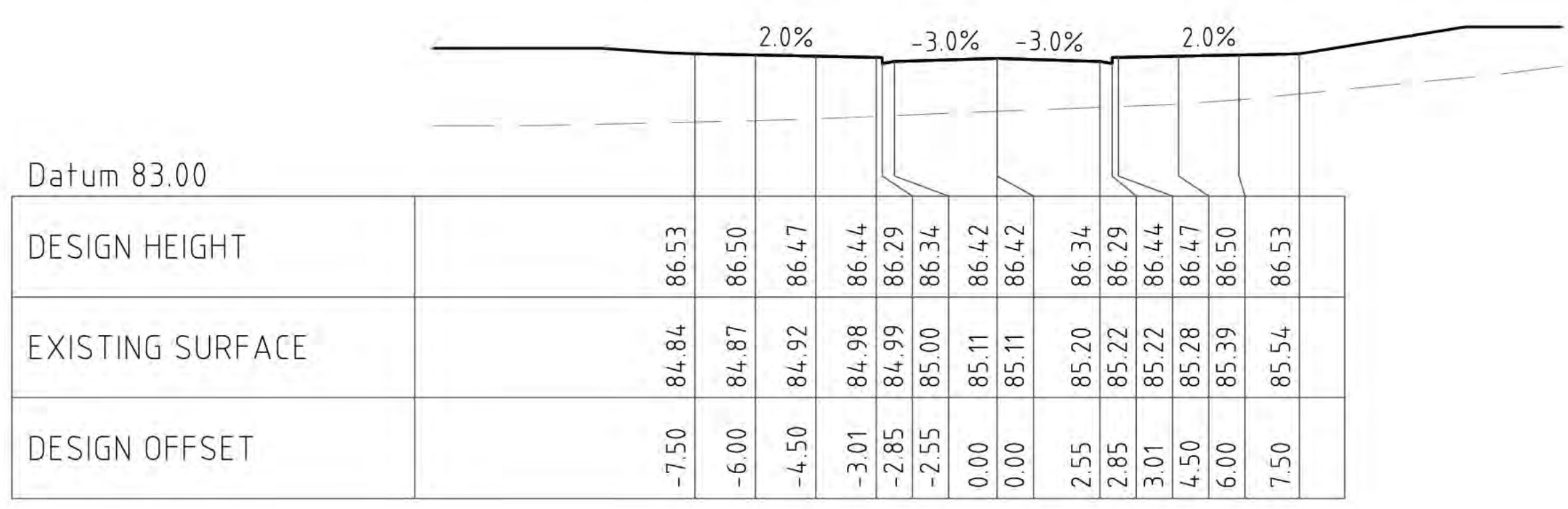
Project: **STAGE 3 TACOMA DRIVE, TOTARA PARK UPPER HUTT**

Title: **ROAD 01 CROSS SECTIONS SHEET 4**

Discipline	Vecta Ref. No.	Drawing No.	Rev
CIVIL	26014	C533	C

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0mm 20 40 60 80 100
A1 REPRODUCTION SCALE
0mm 10 20 30 40 50
A3 REPRODUCTION SCALE
0mm 1 2 3 4 5
SCALE 1:125



C	FOR APPROVAL	ZF	JM	JM	26.05.19
B	FOR APPROVAL	ZF	JM	JM	26.05.14
A	FOR APPROVAL	JD	JM	JM	26.02.12
No.	Revision	By	Chk	Appd	Date

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Drawing Originator
Original Scale (A1)
AS SHOWN
Reduced Scale (A3)
1/2 SHOWN

Design
Drawn
Dsg Verifier
Dwg Check
* Refer to Revision A for Original Signature

JD
JD
JM
JM
26.02.12
26.02.12
26.02.12
26.02.12

Approved For Issue*

Client:

CANNON POINT DEVELOPMENT LTD

Project:

STAGE 3
TACOMA DRIVE, TOTARA PARK
UPPER HUTT

Title:

ROAD 01
CROSS SECTIONS
SHEET 5

Discipline

CIVIL

Vecta Ref. No.

26014

Drawing No.

C534

Rev

C

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