

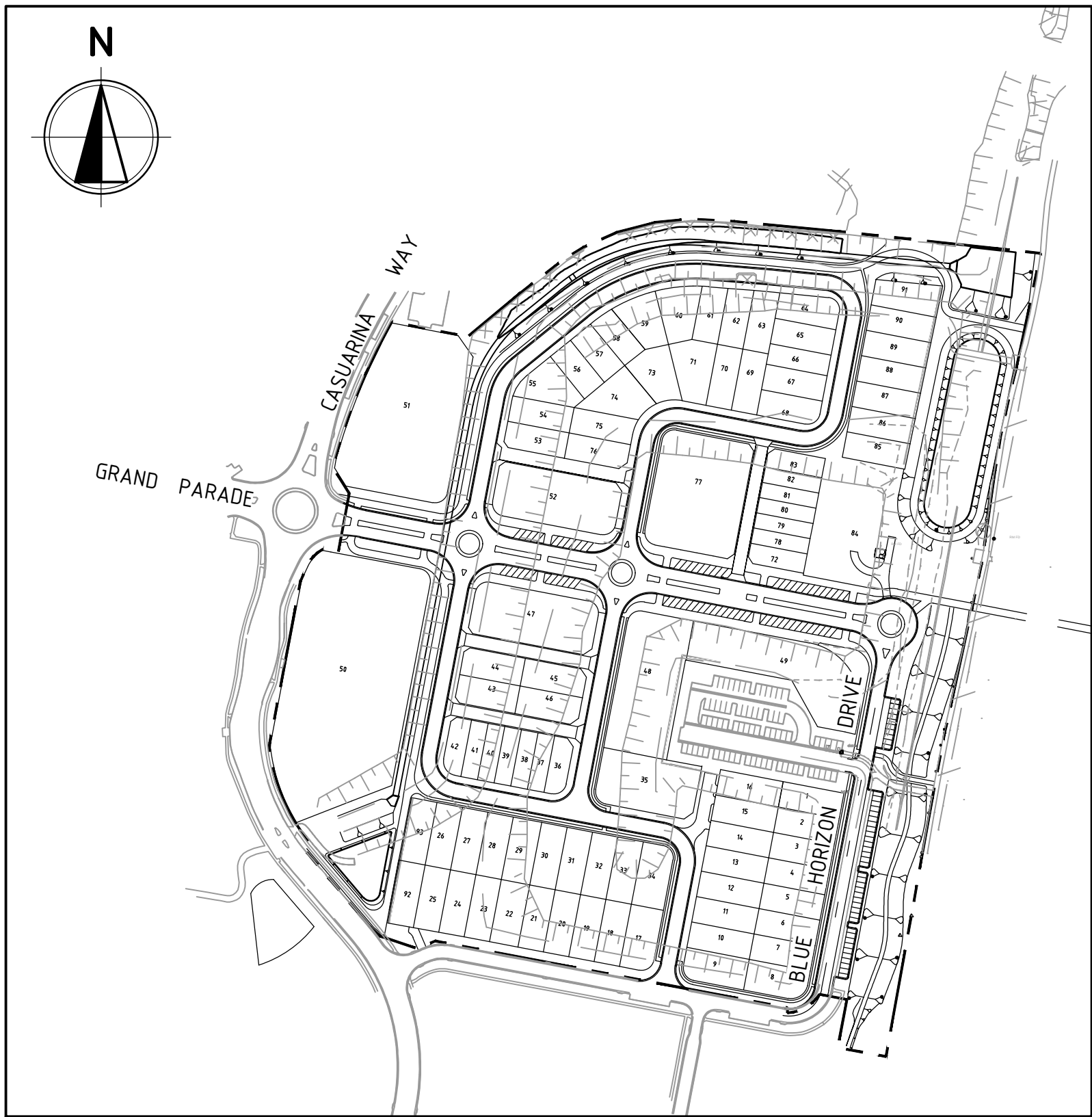
CASUARINA BEACH TOWN CENTRE

STAGE 2 - CIVIL WORKS CASUARINA WAY, NSW 2487



PROJECT SITE

LOCALITY PLAN
SCALE: NTS



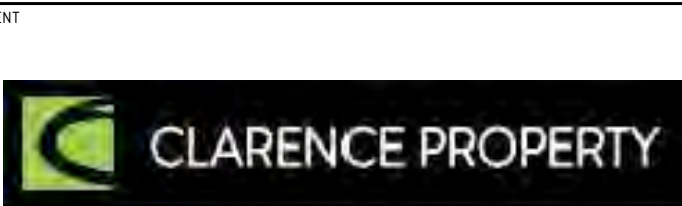
SITE PLAN
SCALE: NTS

DRAWING LIST

DRG No	Rev	DESCRIPTION
C-0001	C	LOCALITY PLAN AND DRAWING INDEX
C-0003	D	SITE LAYOUT PLAN
C-0005	B	EXISTING FEATURES PLAN
C-0010	C	BULK EARTHWORKS PLAN SHEET 1
C-0011	A	BULK EARTHWORKS SECTIONS SHEET 1
C-0012	A	BULK EARTHWORKS SECTIONS SHEET 2
C-0013	A	BULK EARTHWORKS SECTIONS SHEET 3
C-0014	B	BULK EARTHWORKS SECTIONS SHEET 4
C-0015	B	BULK EARTHWORKS SECTIONS SHEET 5
C-0016	A	BULK EARTHWORKS SECTIONS SHEET 6
C-0020	A	ROAD LONGITUDINAL SECTION MC01 SHEET 1
C-0021	A	ROAD LONGITUDINAL SECTION MC01 SHEET 2
C-0022	A	ROAD LONGITUDINAL SECTION MC01 SHEET 3
C-0023	A	ROAD LONGITUDINAL SECTION MC02 SHEET 1
C-0024	A	ROAD LONGITUDINAL SECTION MC02 SHEET 2
C-0025	A	ROAD LONGITUDINAL SECTION MC03 SHEET 1
C-0026	A	ROAD LONGITUDINAL SECTION MC04 SHEET 1
C-0030	C	STORMWATER LAYOUT PLAN SHEET 1
C-0035	A	STORMWATER LONGITUDINAL SECTIONS SHEET 1
C-0036	A	STORMWATER LONGITUDINAL SECTIONS SHEET 2
C-0037	B	STORMWATER LONGITUDINAL SECTIONS SHEET 3
C-0038	B	STORMWATER LONGITUDINAL SECTIONS SHEET 4
C-0039	B	STORMWATER LONGITUDINAL SECTIONS SHEET 5
C-0040	B	STORMWATER LONGITUDINAL SECTIONS SHEET 6
C-0041	B	STORMWATER LONGITUDINAL SECTIONS SHEET 7
C-0050	C	SERVICES PLAN SHEET 1
C-0055	C	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1
C-0056	B	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2
C-0057	B	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3
C-0058	B	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 4
C-0060	B	SEWER PUMP STATION LAYOUT

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B	08.06.17	ISSUED FOR DA APPROVAL	BK		
A	09.05.17	ISSUED FOR DA APPROVAL	BK		
REV	DATE	DESCRIPTION	RVD	REV	DATE
REVISIONS			REVISIONS		



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CASUARINA BEACH
TOWN CENTRE – STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT A1 SIZE

LOCALITY PLAN AND DRAWING INDEX		
PROJECT No. B16097	DRAWING No. C-0001	REV C

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A	09.05.17	ISSUED FOR DA APPROVAL	B.K				



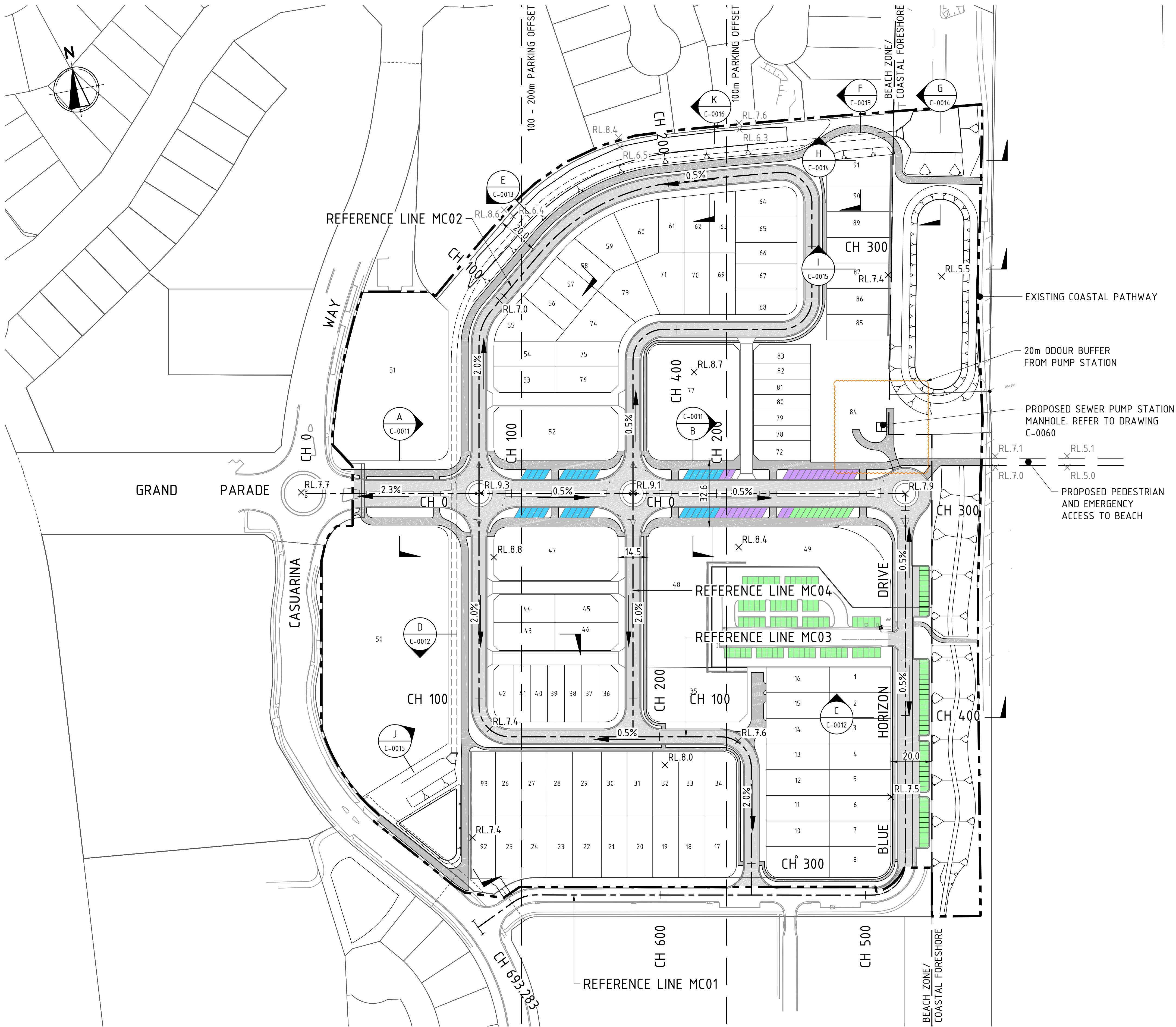
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TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL			
NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE 1:1000	AT SIZE

SITE LAYOUT PLAN		
PROJECT No. B16097	DRAWING No. C-0003	REV D

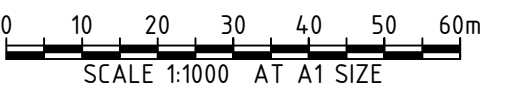


LEGEND

	DESIGN CONTROL LINE
	LIMIT OF WORKS BOUNDARY
	PROPOSED ROAD GRADE
	PROPOSED LEVEL
	EXISTING LEVEL
	PROPOSED RETAINING WALL (1.0m)
	PROPOSED ROAD
	PROPOSED PATH
	PARKING BAYS - 0m TO 100m (134 TOTAL) 71 EXISTING BLUE HORIZON DRIVE 8 TRESTLES AVENUE 55 PROPOSED BAYS
	PARKING BAYS - 100m TO 200m (32 TOTAL)
	PARKING BAYS - ADDITIONAL (24 TOTAL)

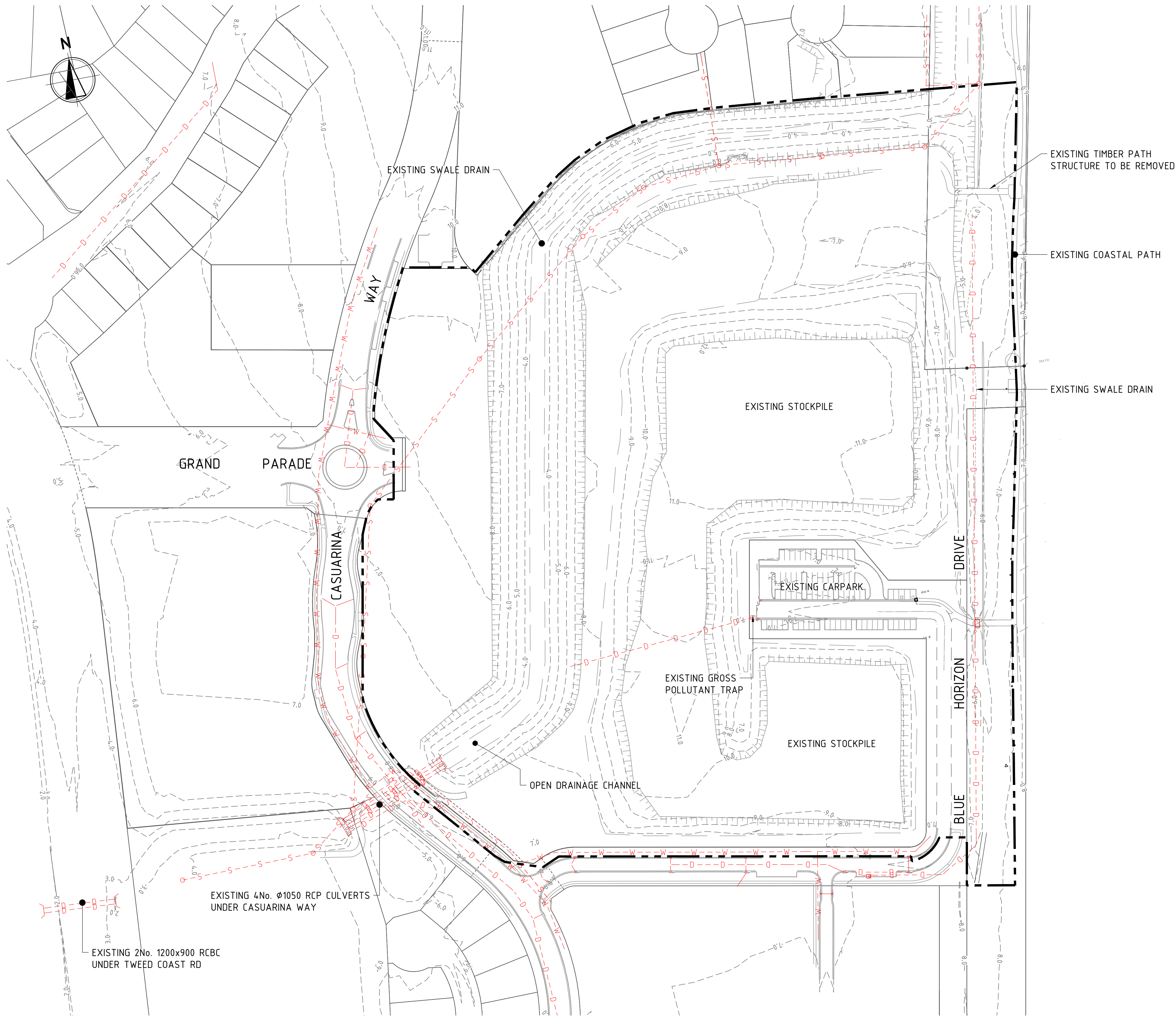
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1	374.9
2	375.0
3	375.0
4	375.0
5	375.0
6	375.0
7	375.0
8	438.8
9	456.5
10	384.4
11	384.4
12	384.4
13	384.4
14	384.4
15	384.4
16	384.3
17	474.5
18	382.7
19	382.7
20	382.7
21	382.7
22	428.6
23	382.7
24	383.3
25	384.7
26	384.4
27	384.4
28	384.4
29	430.5
30	384.4
31	384.4
32	384.4
33	384.4
34	476.6
35	1270.3
36	256.7
37	227.6
38	227.5
39	227.5
40	227.5
41	227.5
42	257.7
43	401.8
44	401.8
45	412.4
46	412.4
47	1545.3

LOT AREA TABLE	
LOT No.	AREA (m ²)
48	2116.5
49	2018.5
50	7199.0
51	4084.7
52	1545.3
53	375.0
54	378.0
55	449.2
56	327.8
57	329.9
58	323.1
59	440.6
60	451.6
61	335.5
62	352.3
63	368.8
64	405.6
65	375.0
66	302.9
67	375.0
68	367.3
69	375.0
70	375.0
71	524.0
72	259.8
73	471.8
74	522.2
75	381.6
76	372.0
77	2488.8
78	207.8
79	207.8
80	207.8
81	207.8
82	207.8
83	259.6
84	3500
85	387.1
86	389.6
87	392.1
88	394.6
89	397.1
90	399.5
91	448.4
92	386.0
93	384.4



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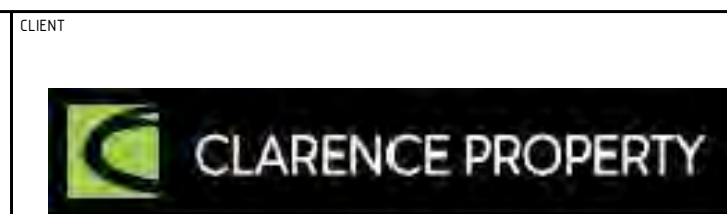


LEGEND	
---	LIMIT OF WORKS BOUNDARY
---D---D---D---	EXISTING STORMWATER PIPE
---S---S---S---	EXISTING SEWER MAIN
---W---W---W---	EXISTING WATER MAIN
---10.50---	EXISTING CONTOURS
XXXXXX	EXISTING RETAINING WALL



0 10 20 30 40 50 60m
SCALE 1:1000 AT A1 SIZE

REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
B	08.06.17	ISSUED FOR DA APPROVAL	BK				
A	09.05.17	ISSUED FOR DA APPROVAL	BK				
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD



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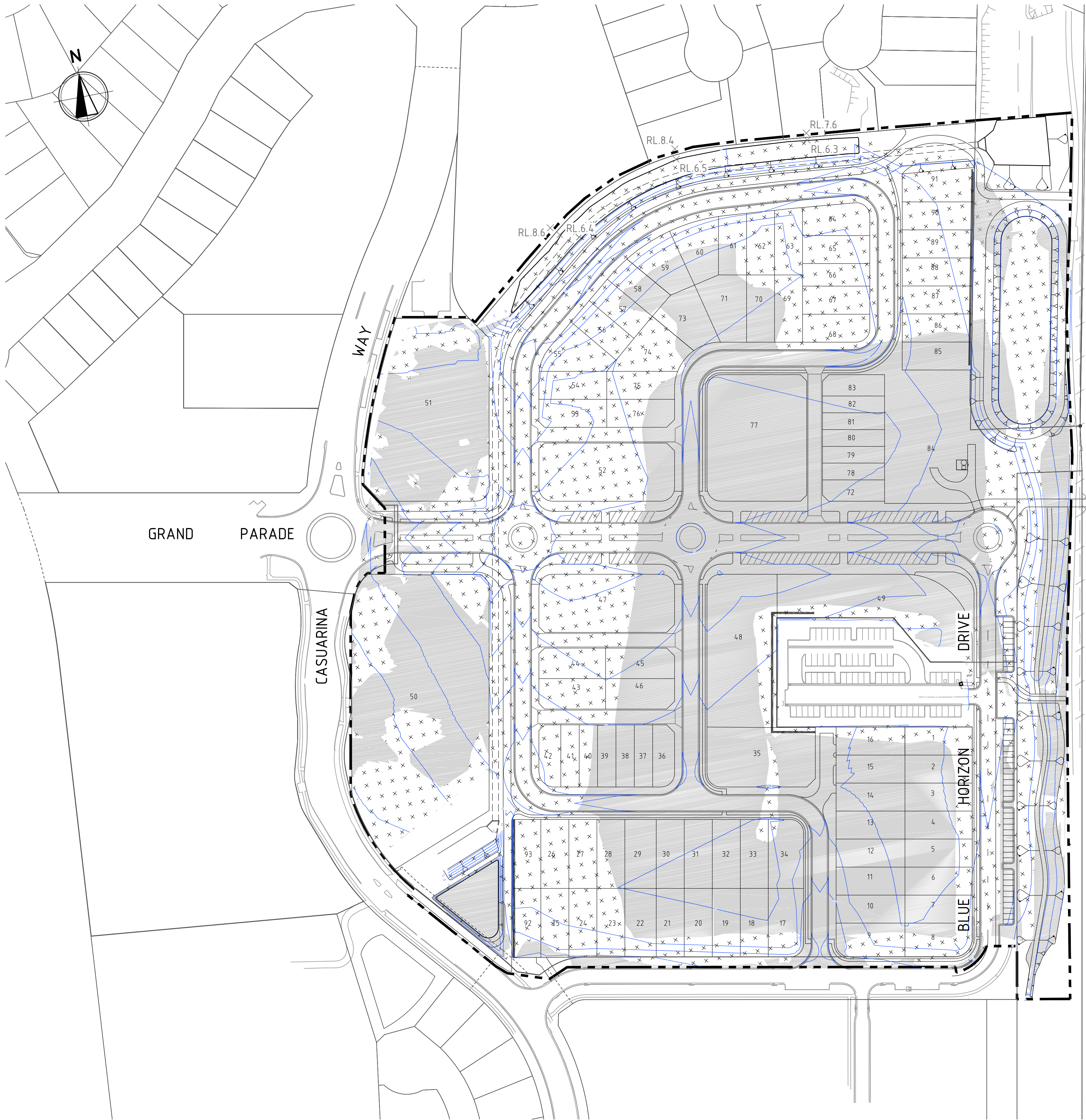


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS			
ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE 1:1000	AT SIZE

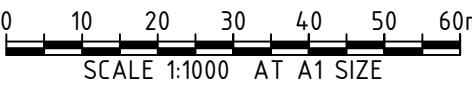
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EXISTING FEATURES PLAN			
PROJECT No. B16097	DRAWING No. C-0005	REV B	

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LEGEND

- LIMIT OF WORKS BOUNDARY
- PROPOSED CONTOURS
- PROPOSED RETAINING WALL
- EARTHWORKS CUT HATCH
- EARTHWORKS FILL HATCH



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
C	09.08.17	ISSUED FOR DA APPROVAL	BK				
B	08.06.17	ISSUED FOR DA APPROVAL	BK				
A	09.05.17	ISSUED FOR DA APPROVAL	BK				



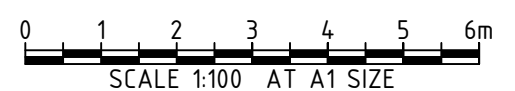
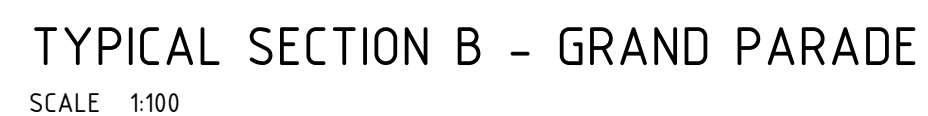
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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

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DATUM MGA94	GRID AHD	SCALE 1:1000	AT SIZE

BULK EARTHWORKS PLAN SHEET 1		
PROJECT No. B16097	DRAWING No. C-0010	REV C

[illegible]

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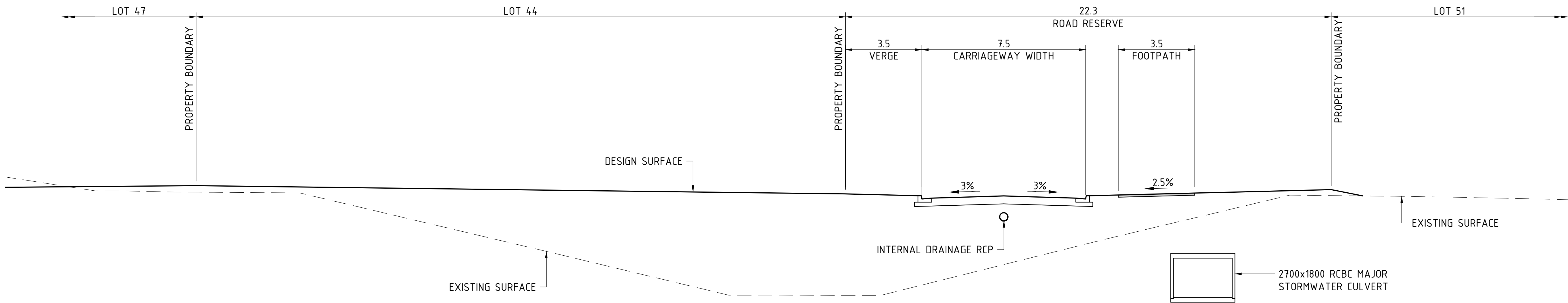
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS		ISSUED FOR APPROVAL	
		NOT TO BE USED FOR CONSTRUCTION	
DRAWN	DESIGNED	CHECKED	APPROVED
C.K	B.J	M.W	B.K
DATUM	GRID	SCALE	
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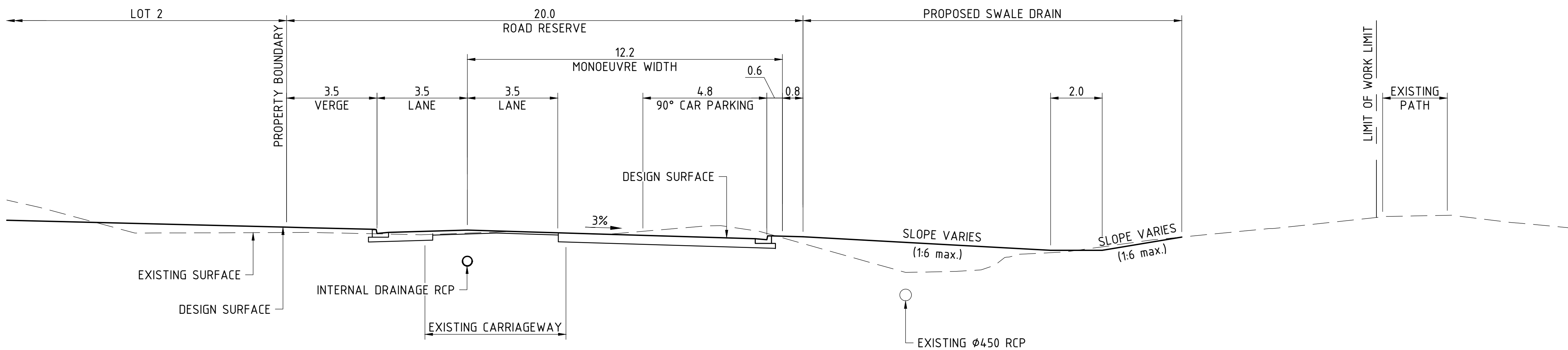
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PROJECT No.	DRAWING No.	REV.
B16097	C-0011	A

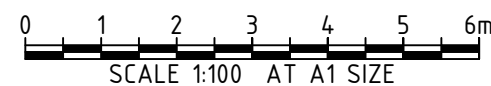
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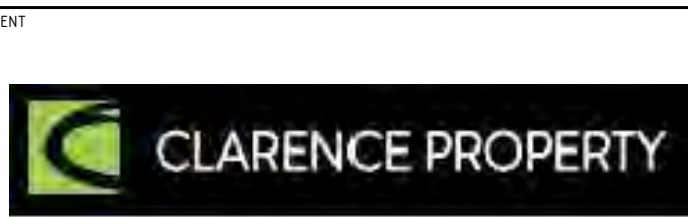
TYPICAL SECTION D
SCALE 1:100



TYPICAL SECTION C - BLUE HORIZON DRIVE
SCALE 1:100



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
A	09/05/17	ISSUED FOR DA APPROVAL	B.K				



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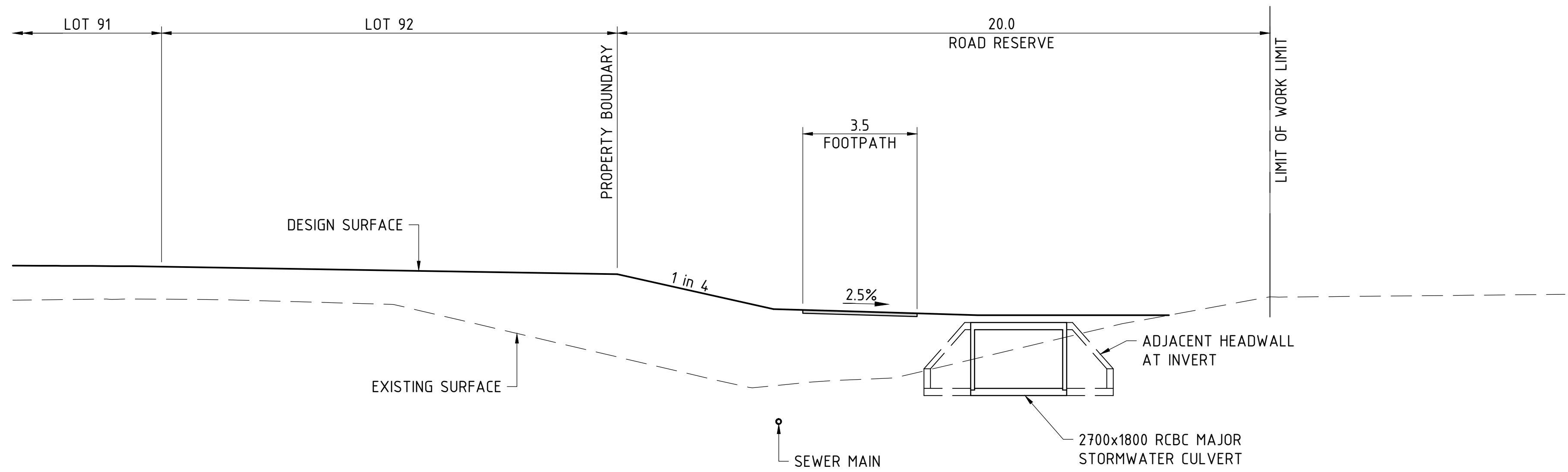


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

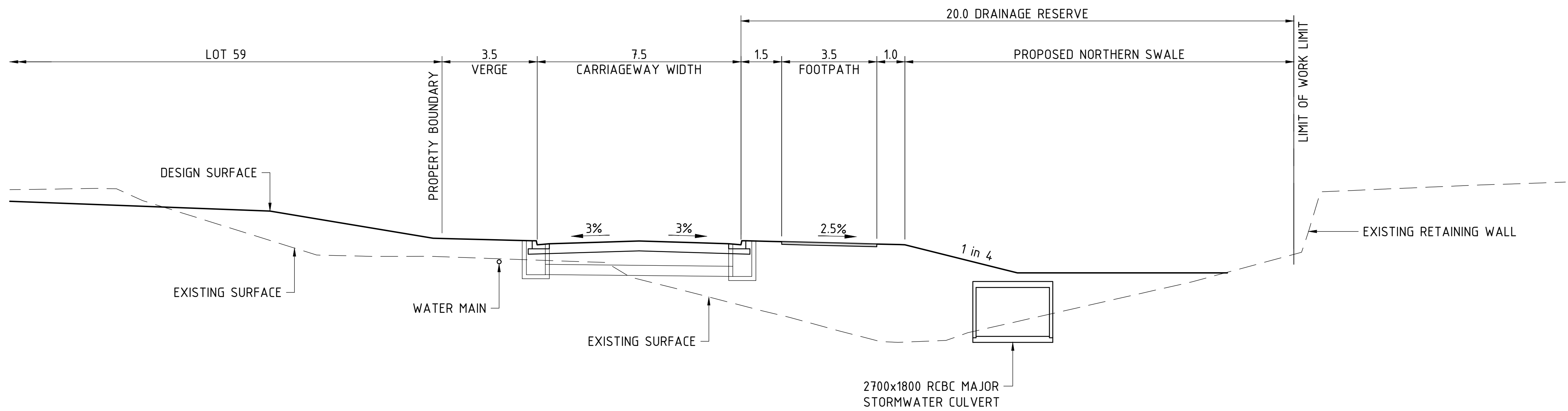
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DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE 1:50	AT SIZE

TITLE		
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PROJECT No. B16097	DRAWING No. C-0012	REV A

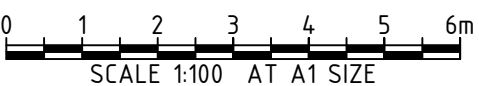
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TYPICAL SECTION F
SCALE 1:100



TYPICAL SECTION E - NORTHERN BOUNDARY DRAINAGE RESERVE
SCALE 1:100



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
A	09/05/17	ISSUED FOR DA APPROVAL	B.K				



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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS			
ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE 1:50	AT SIZE

TITLE		
BULK EARTHWORKS SECTIONS SHEET 3		
PROJECT No. B16097	DRAWING No. C-0013	REV A

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PROJECT

CASUARINA BEACH

TOWN CENTRE - STAGE 2

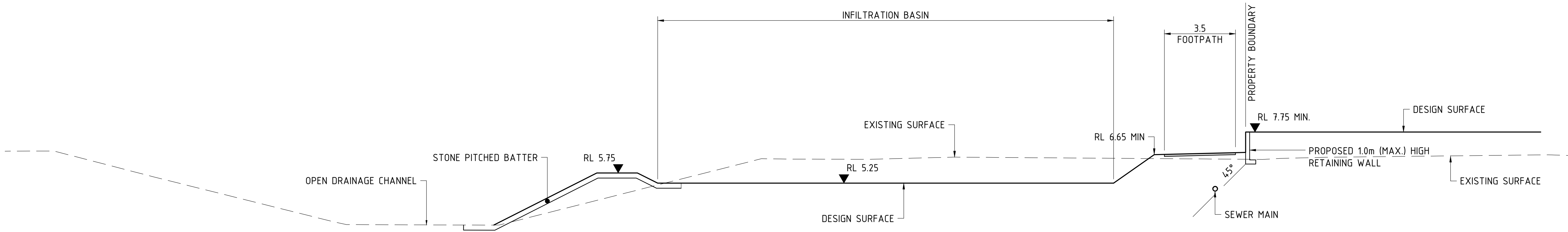
CASUARINA WAY, NSW 2487

STATUS		ISSUED FOR APPROVAL	
		NOT TO BE USED FOR CONSTRUCTION	
DRAWN	DESIGNED	CHECKED	APPROVED
C.K	B.J	M.W	B.K
DATUM	GRID	SCALE	
MGA94	AHD	1:50	
			AT SIG

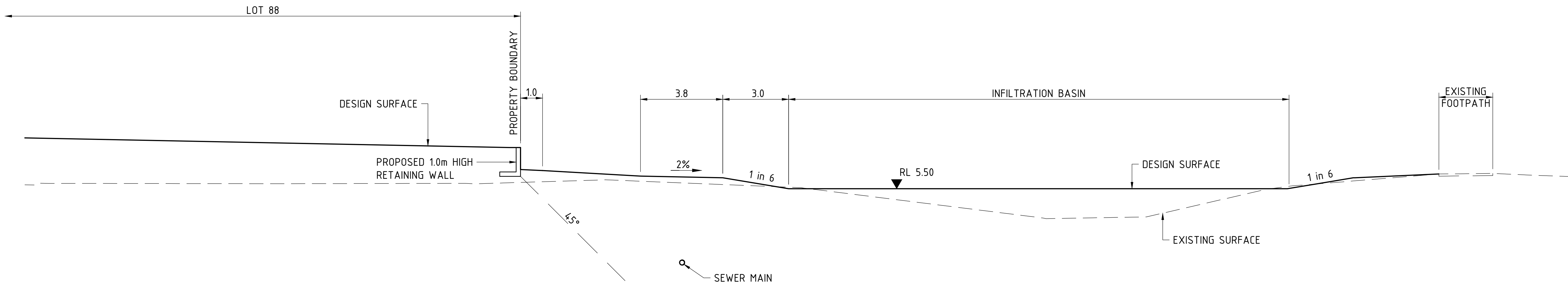
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SHEET 4

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B16097	C-0014	B

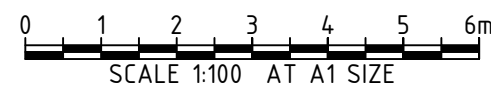
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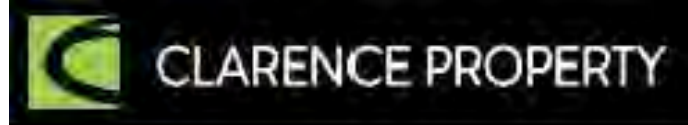
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SCALE 1:100



TYPICAL SECTION I - EASTERN INFILTRATION BASIN
SCALE 1:100



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A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		



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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE 1:50	AT SIZE

TITLE BULK EARTHWORKS SECTIONS SHEET 5		
PROJECT No. B16097	DRAWING No. C-0015	REV B



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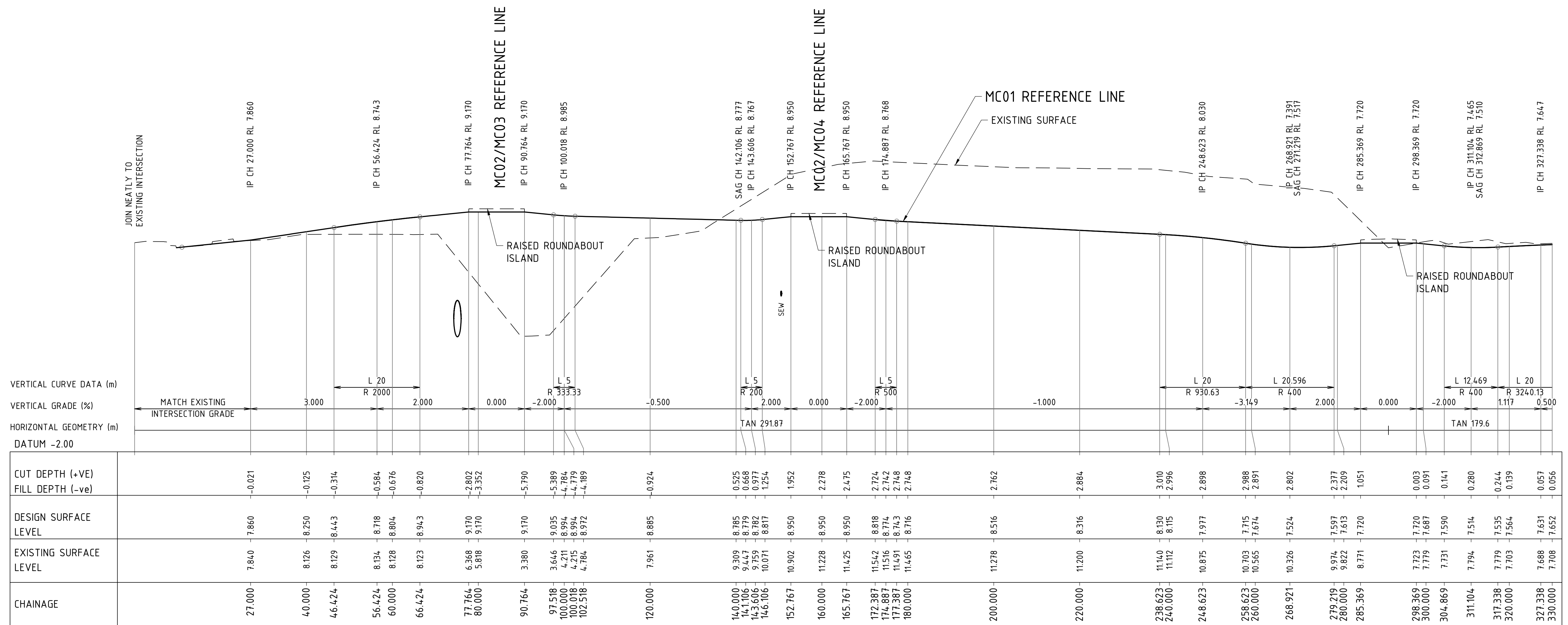


TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

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DATUM MGA95	GRID AHD	SCALE 1:50	AT SIA

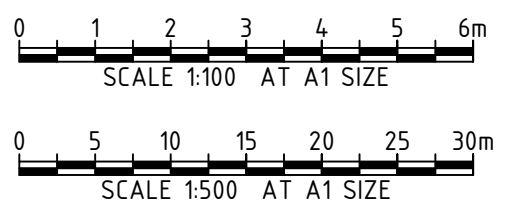
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PROJECT No.	DRAWING No.	REV.
B16097	C-0016	A



MC01 LONGITUDINAL SECTION (CON'T)

SCALE HORIZ. 1:500 VERT. 1:100



A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION			RVD

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PROJECT

CASUARINA BEACH

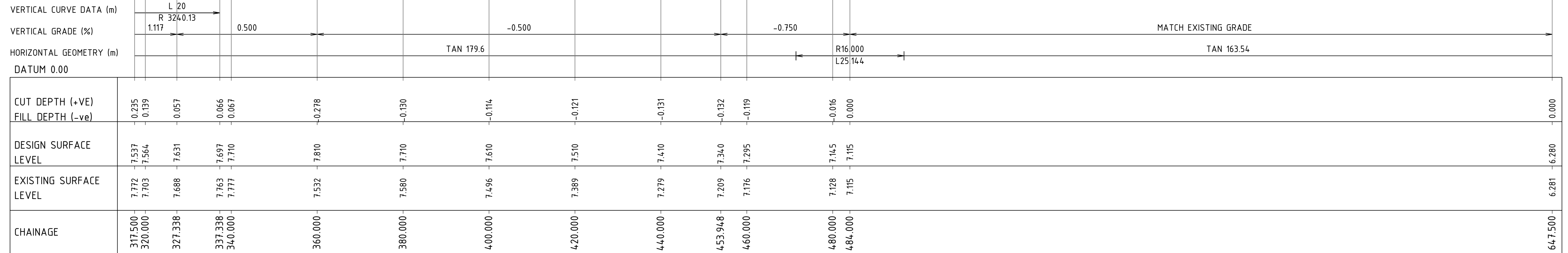
TOWN CENTRE - STAGE 2

CASUARINA WAY, NSW 2487

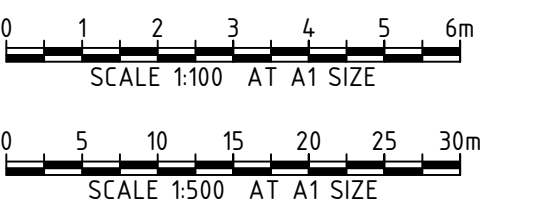
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NOT TO BE USED FOR CONSTRUCTION					
DRAWN	DESIGNED	CHECKED	APPROVED		
C.K	B.J	M.W	B.K		
DATUM	GRID	SCALE			
MGA94	AHD	H 1:500, V 1:100		AT	SIG

TITLE	ROAD LONGITUDINAL SECTION MC01 SHEET 1
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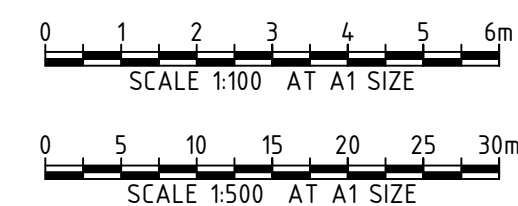
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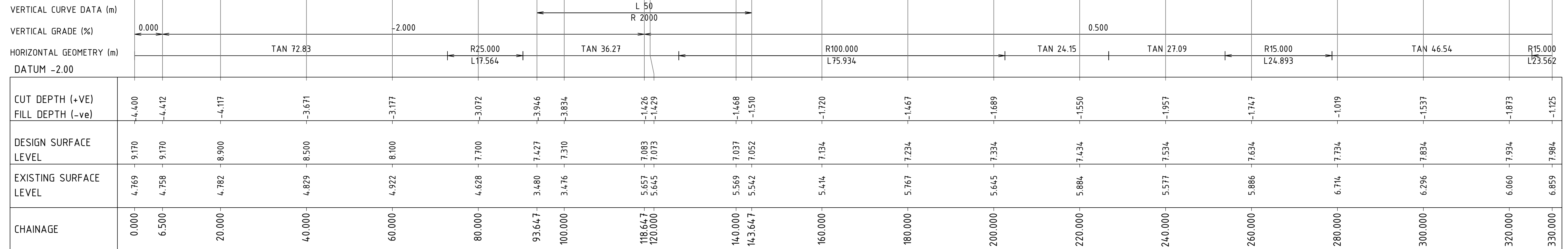
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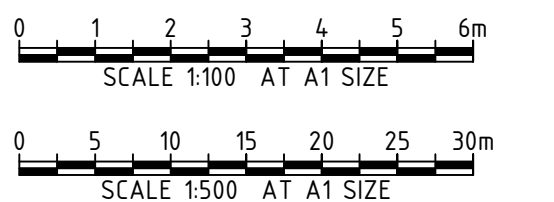
										 Brisbane Office— 74-76 Bowen St, Spring Hill QLD 4000 P / +61 7 3167 3300 E / info@bgeeng.com bgeeng.com— 										CASUARINA BEACH TOWN CENTRE – STAGE 2 CASUARINA WAY, NSW 2487 ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION ROAD LONGITUDINAL SECTION MC01 SHEET 2													
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																		H 1:500, V 1:100		AT		SIZE		B16097		C-0021		A					



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SCALE HORIZ. 1:500 VERT. 1:100

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PROJECT

CASUARINA BEACH

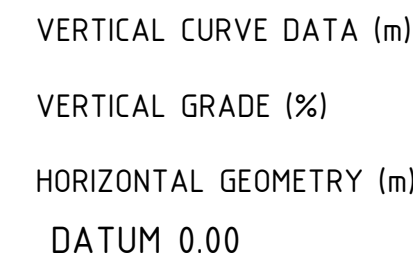
TOWN CENTRE - STAGE 2

CASUARINA WAY, NSW 2487

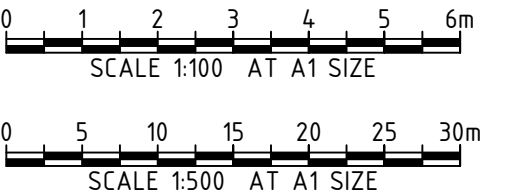
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NOT TO BE USED FOR CONSTRUCTION					
DRAWN	DESIGNED	CHECKED	APPROVED		
C.K	B.J	M.W	B.K		
DATUM	GRID	SCALE			
MGA94	AHD	H 1:500, V 1:100		AT	SIG

TITLE	ROAD LONGITUDINAL SECTION MC02 SHEET 1
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PROJECT No.	DRAWING No.	REV.
B16097	C-0023	A

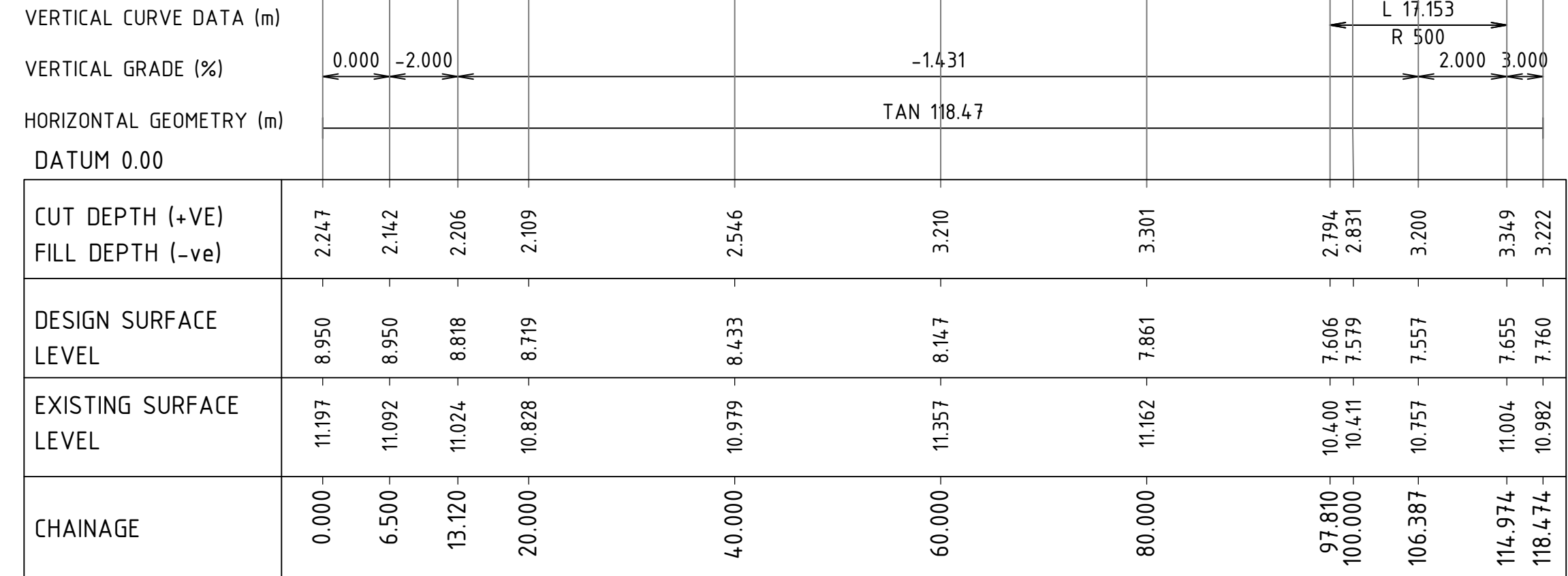


SCALE HORIZ. 1:500 VERT. 1:100

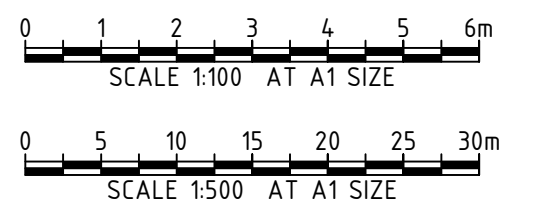


A	09.05.17	ISSUED FOR DA APPROVAL		B.K					
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION			RVD

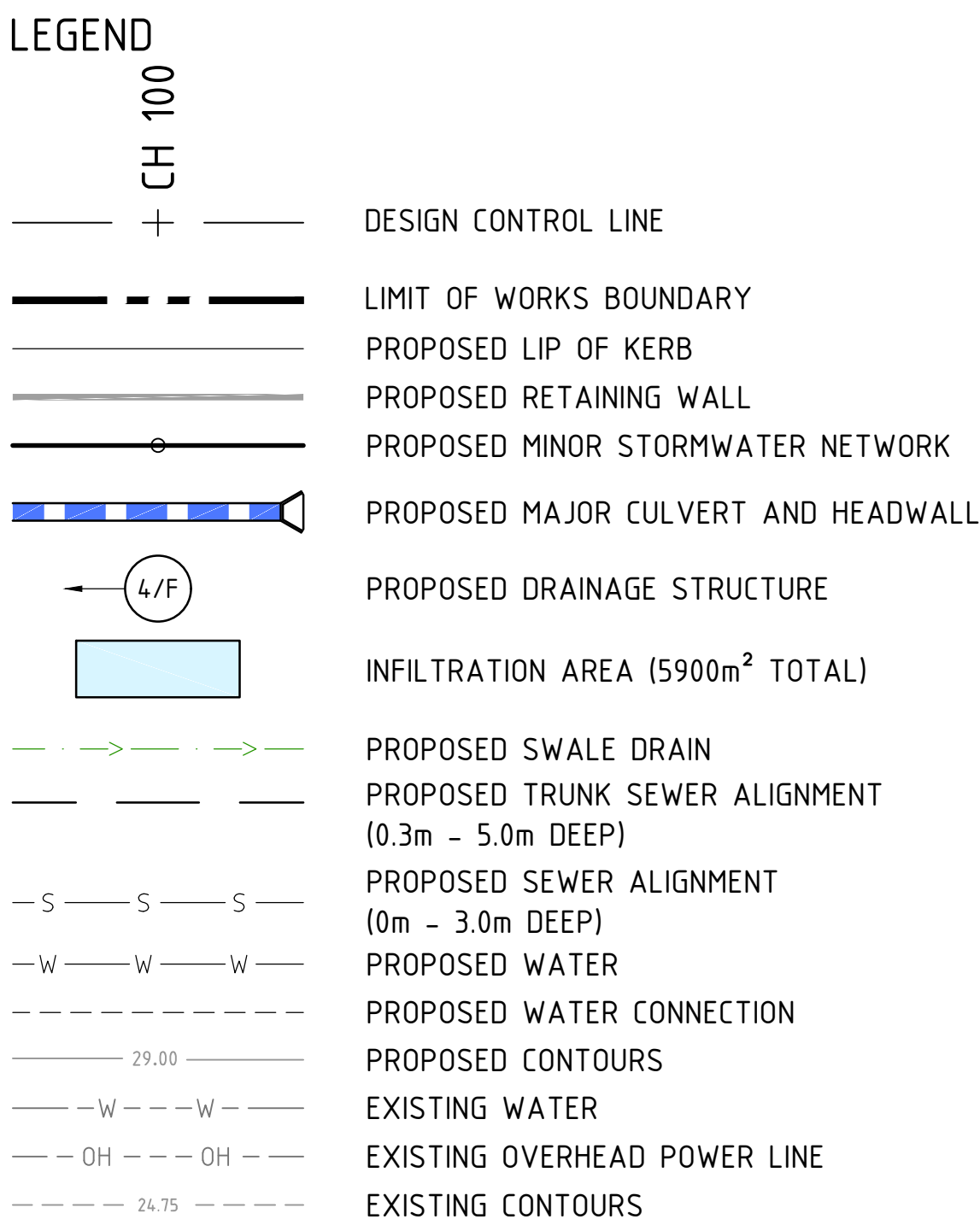
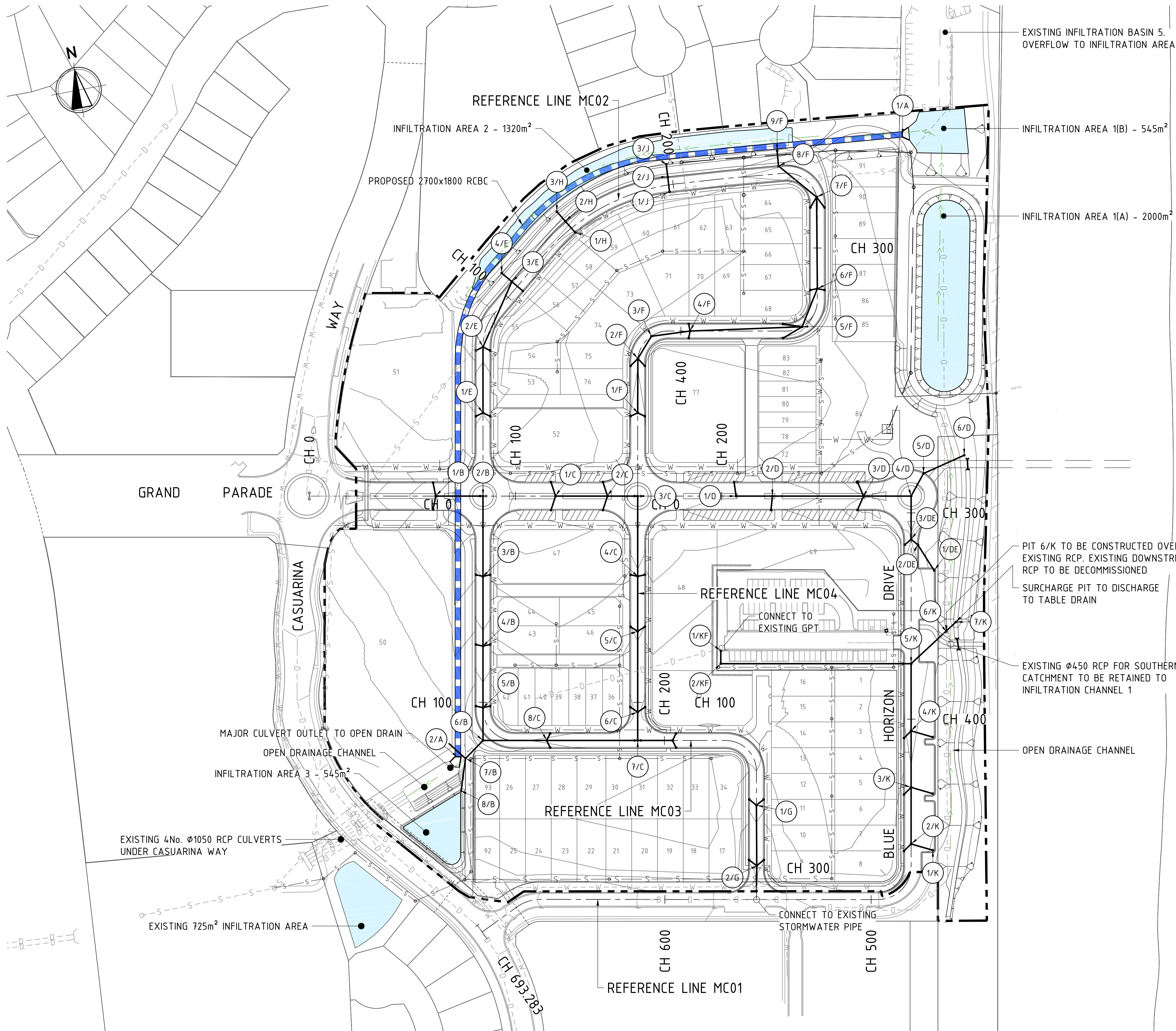




SCALE HORIZ. 1:500 VERT. 1:100

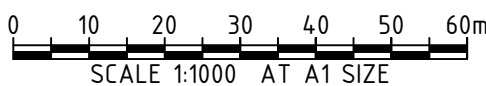
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NOTE

1. BIO-RETENTION IS TO BE PROTECTED FROM SEDIMENT INPUTS DURING HOUSING CONSTRUCTION. BIO-RETENTION TO BE HANDED OVER TO COUNCIL AFTER 90% HOUSING CONSTRUCTION IS COMPLETE.



C	09.08.17	ISSUED FOR DA APPROVAL	B.K.
B	08.06.17	ISSUED FOR DA APPROVAL	B.K.
A	09.05.17	ISSUED FOR DA APPROVAL	B.K.
REV	DATE	DESCRIPTION	RVD
REV	DATE	DESCRIPTION	RVD



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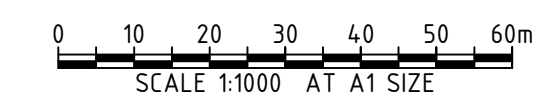
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K.	DESIGNED B.J.	CHECKED M.W.	APPROVED B.K.
DATUM MGA94	GRID AHD	SCALE 1:1000	AT SIZE

STORMWATER LAYOUT PLAN SHEET 1		
PROJECT No. B16097	DRAWING No. C-0030	REV C

1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.

STRUCTURE NAME		1.A	
STRUCTURE DESCRIPTION		HEADWALL INLET	
PIPE SIZE (mm)		2700x1800 RCBC	
PIPE CLASS			
PIPE GRADE (%)		0.1%	
PIPE GRADE (1 in)		1 in 1000	
DATUM (m)		-7.0	
PIPE FLOW (Cumecs)			
PIPE CAPACITY AT GRADE (Cumecs)			
WATER LEVEL IN STRUCTURE			
HYDRAULIC GRADE LEVEL			
DEPTH TO INVERT		2.251	
INVERT LEVEL OF DRAIN		3.749	
STRUCTURE SETOUT LEVEL		6.000	
RUNNING CHAINAGE		0.000	
STRUCTURE SETOUT		E 556307.803 N 686984.893	
LINE		A	

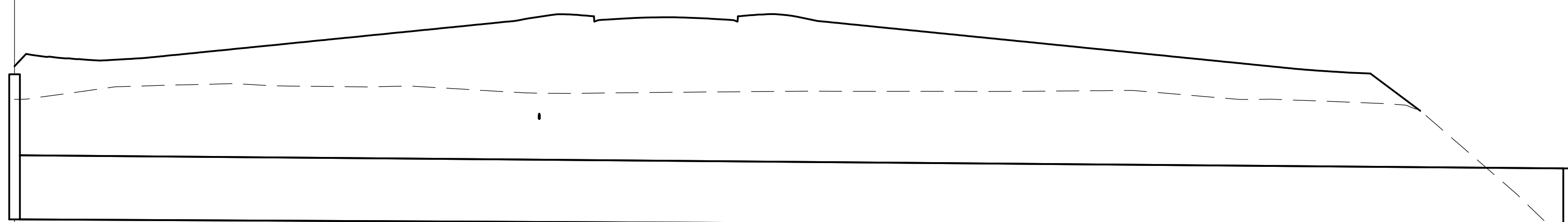
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1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.

1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.

HEADWALL OUTLET

STRUCTURE DESCRIPTION



150mm IL 6.264

150mm IL 2.905

2700x1800 RCBC

2700x1000 RCDU

0.1%

1 in 1000

-7.0

AT GRADE (Cumecs)

HYDRAULIC GRADE LEVEL

4.1

3.	
----	--

519

218.404

955 E

A

3.228	1.650
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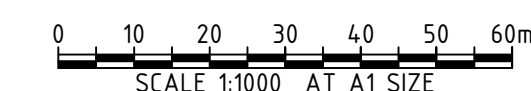
4.878

51.609

154

56041.0

153

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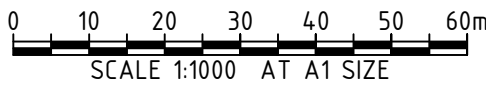
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STRUCTURE NAME	1.B	2.B	3.B	4.B	5.B	6.B	7.B	8.B
STRUCTURE DESCRIPTION	MANHOLE	MANHOLE	MANHOLE	MANHOLE	MANHOLE	MANHOLE	SAG INLET	HEADWALL OUTLET
PIPE SIZE (mm)	375	375	375	375	375	375	375	375
PIPE CLASS	RCP CL3	RCP CL3	RCP CL3	RCP CL3	RCP CL3	RCP CL3	RCP CL3	RCP CL3
PIPE GRADE (%)	0.5%	0.5%	0.93%	1.58%	0.5%	0.5%	0.5%	0.5%
PIPE GRADE (1 in)	1 in 200	1 in 200	1 in 107.5	1 in 63.2	1 in 200	1 in 200	1 in 200	1 in 200
DATUM (m)	-7.0							
PIPE FLOW (Cumecs)								
PIPE CAPACITY AT GRADE (Cumecs)								
WATER LEVEL IN STRUCTURE								
HYDRAULIC GRADE LEVEL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
DEPTH TO INVERT	1.420	2.019	1.436	1.094	1.222	1.579	1.472	0.503
INVERT LEVEL OF DRAIN	7.415	7.301	7.086	6.752	5.970	5.891	5.332	5.210
STRUCTURE SETOUT LEVEL	8.835	9.320	8.522	7.846	7.378	7.469	6.804	5.712
RUNNING CHAINAGE	0.000	22.923	38.891	33.804	29.845	15.934	9.602	18.416
STRUCTURE SETOUT	E 556051.556 N 6869762.639	E 556074.075 N 6869758.356	E 556066.809 N 6869720.150	E 556060.494 N 6869686.941	E 556054.916 N 6869657.622	E 556051.940 N 6869641.969	E 556044.093 N 6869636.436	E 556037.250 N 6869619.338
LINE	B							

NOTE

1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.



B	08.06.17	ISSUED FOR DA APPROVAL	B.K						
A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		

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CLIENT

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PROJECT

CASUARINA BEACH
TOWN CENTRE – STAGE 2
CASUARINA WAY, NSW 2487

STATUS

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

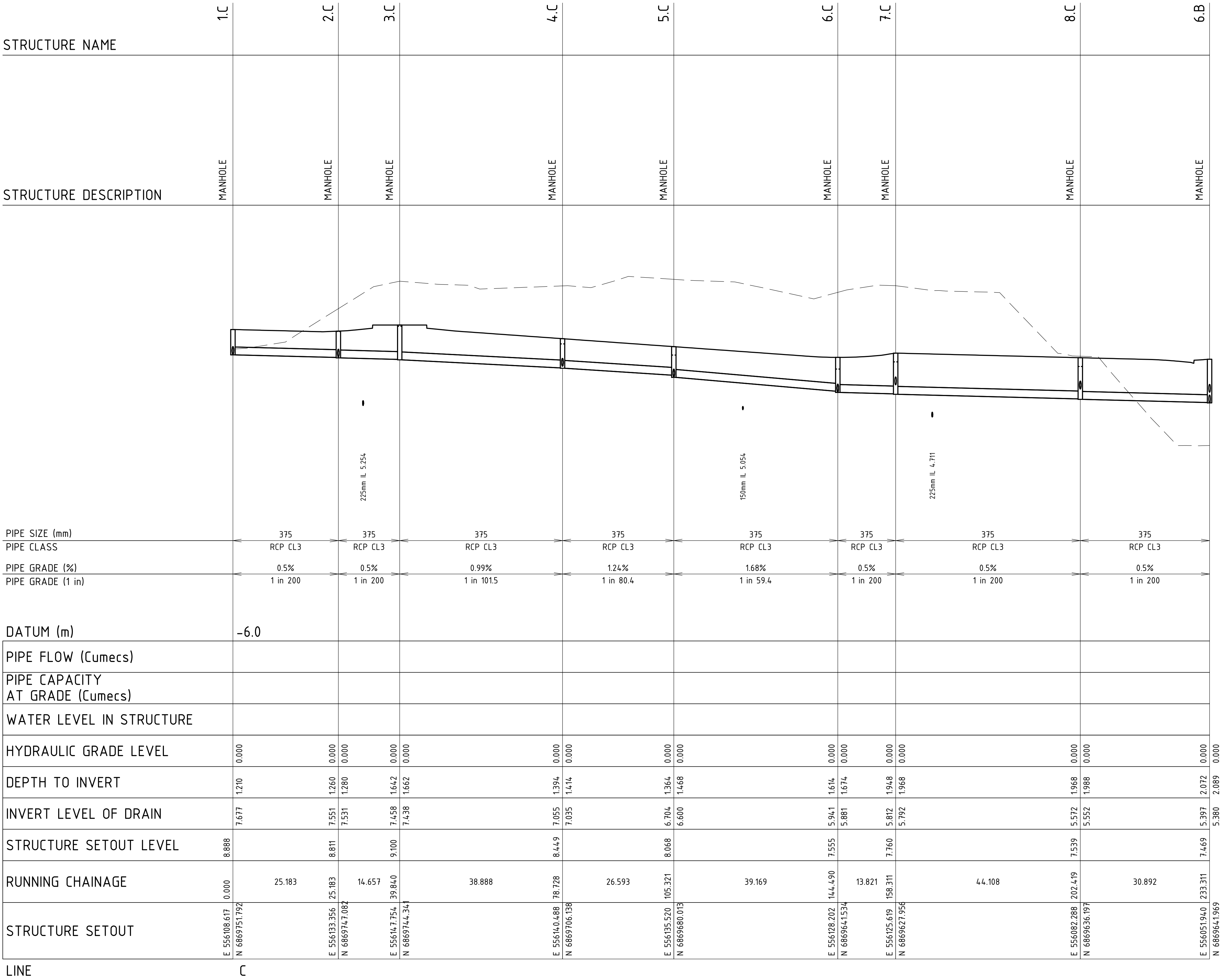
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DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT SIZE

TITLE

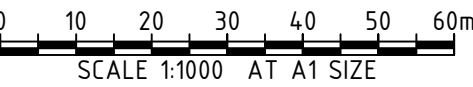
STORMWATER
LONGITUDINAL SECTIONS
SHEET 3

PROJECT No. B16097	DRAWING No. C-0037	REV B
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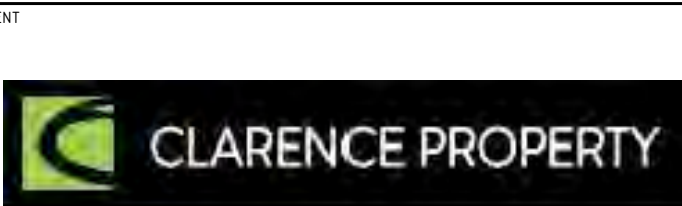


NOTE
1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.



B	08.06.17	ISSUED FOR DA APPROVAL	B.K						
A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		

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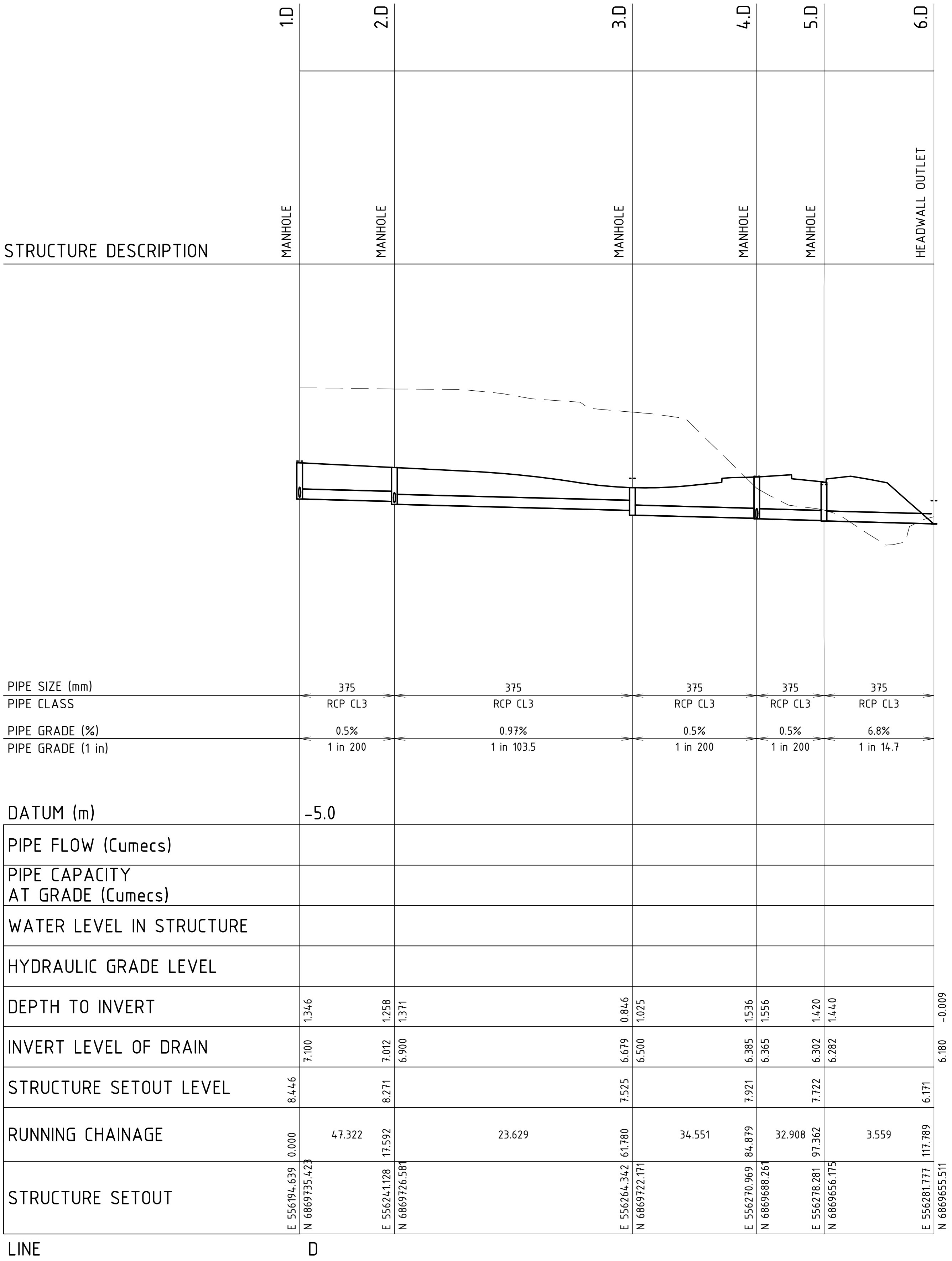
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT SIZE

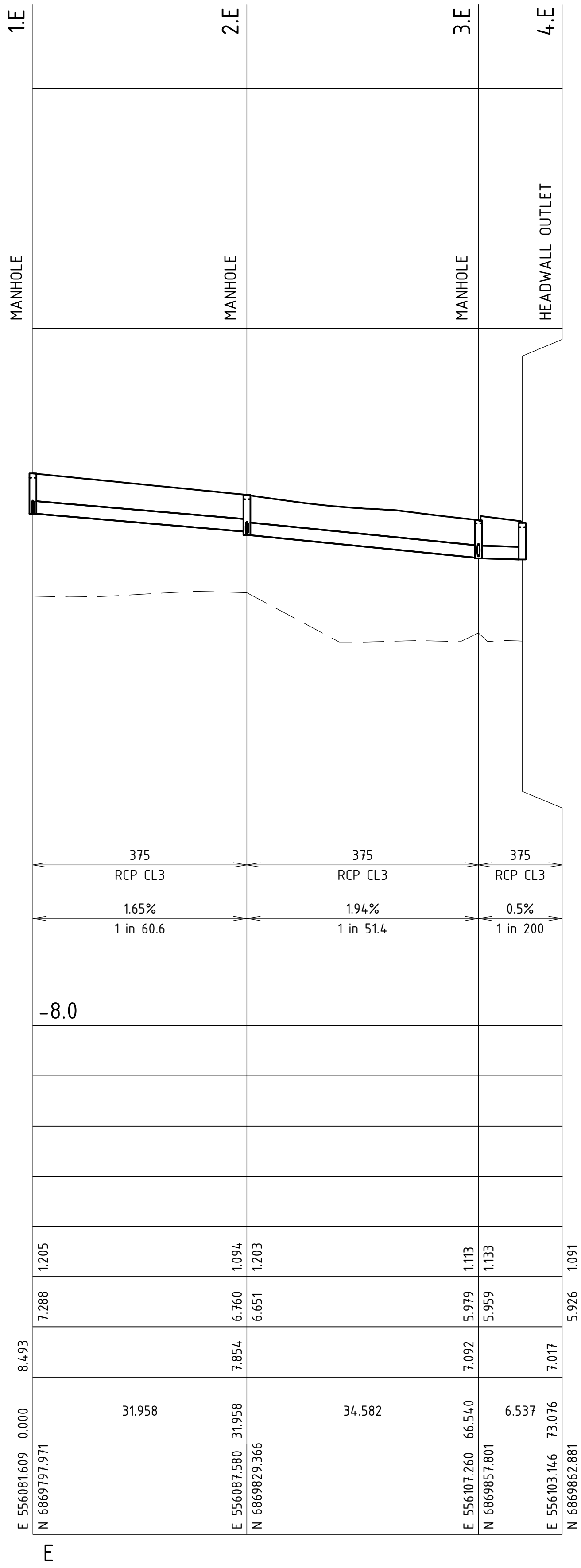
TITLE STORMWATER LONGITUDINAL SECTIONS SHEET 4		
PROJECT No. B16097	DRAWING No. C-0038	REV B

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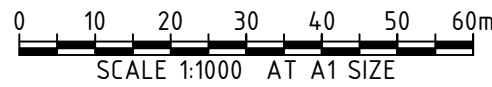
LINE D



E

NOTE

1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.



B	08.06.17	ISSUED FOR DA APPROVAL	B.K						
A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		

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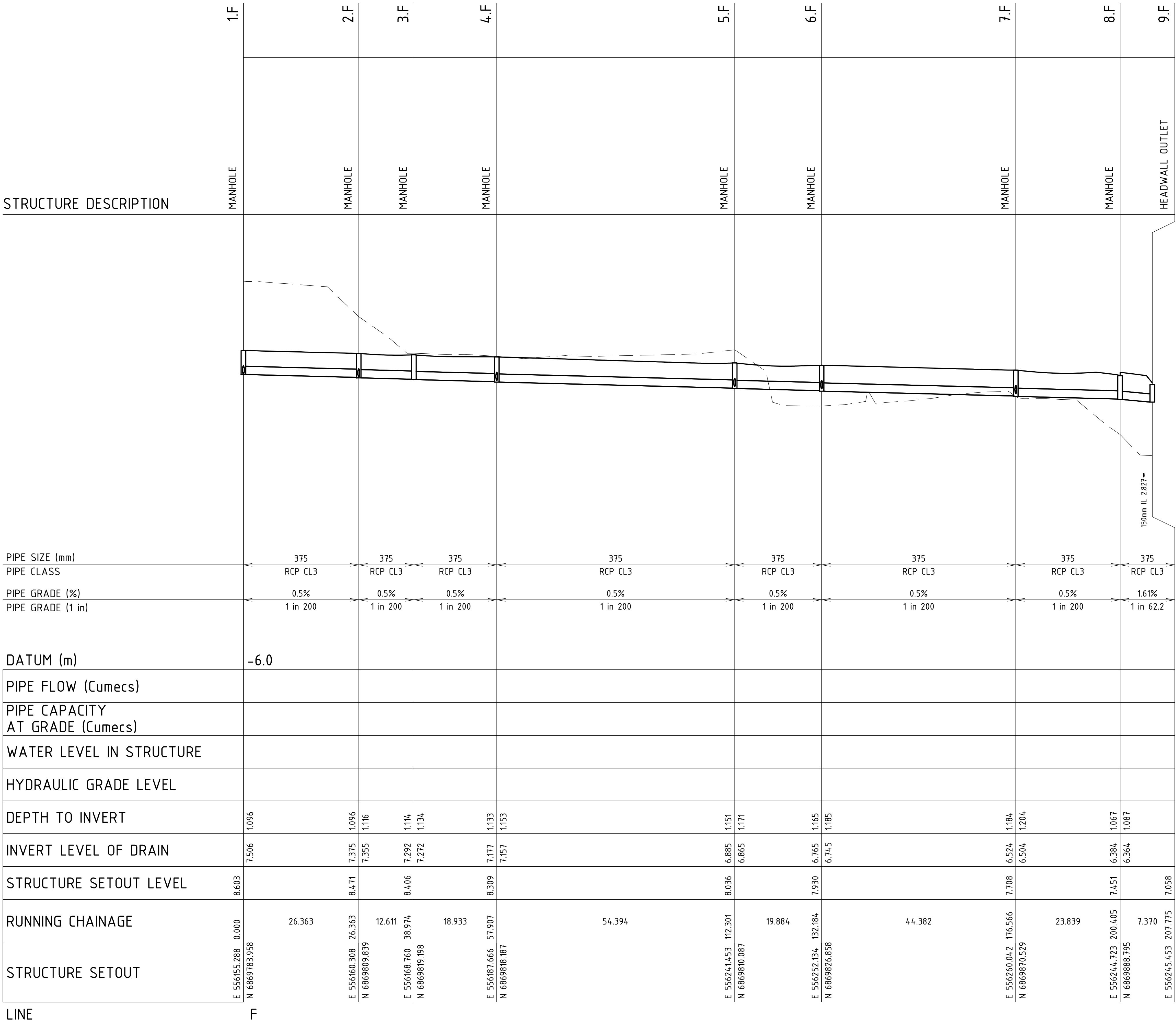


PROJECT
CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

STATUS ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT SIZE

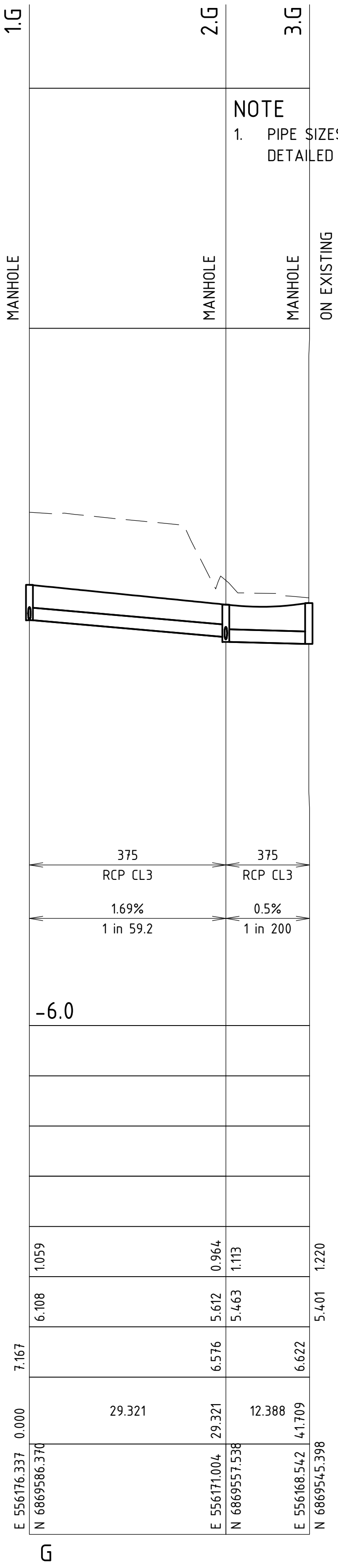
TITLE STORMWATER LONGITUDINAL SECTIONS SHEET 5		
PROJECT No. B16097	DRAWING No. C-0039	REV B

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LINE

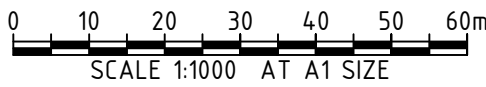
F



G

NOTE
1. PIPE SIZES TO BE DETERMINED DURING
DETAILED DESIGN.

ON EXISTING



B	08.06.17	ISSUED FOR DA APPROVAL	B.K						
A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		



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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

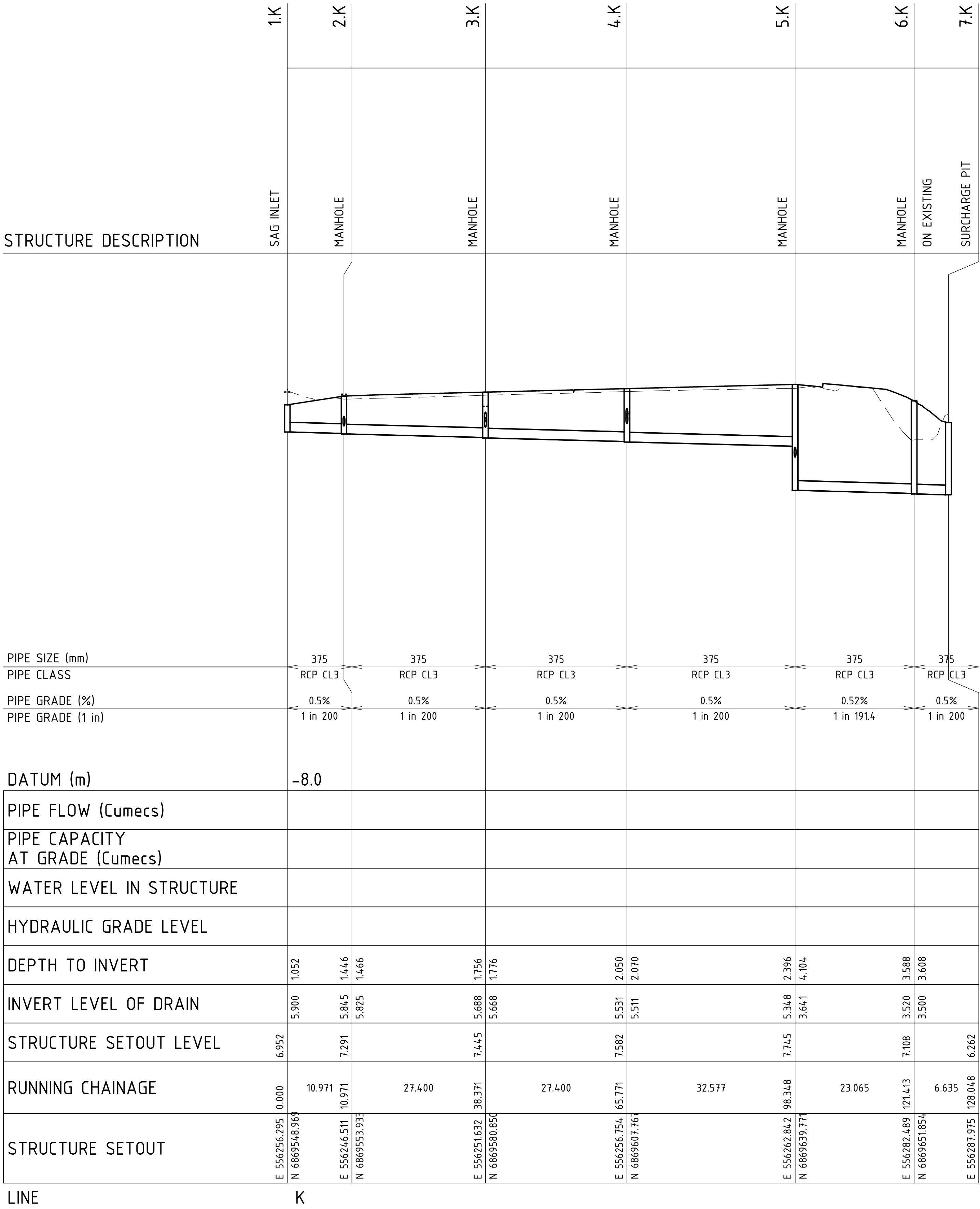
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DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT SIZE

TITLE STORMWATER LONGITUDINAL SECTIONS SHEET 6		
PROJECT No. B16097	DRAWING No. C-0040	REV B

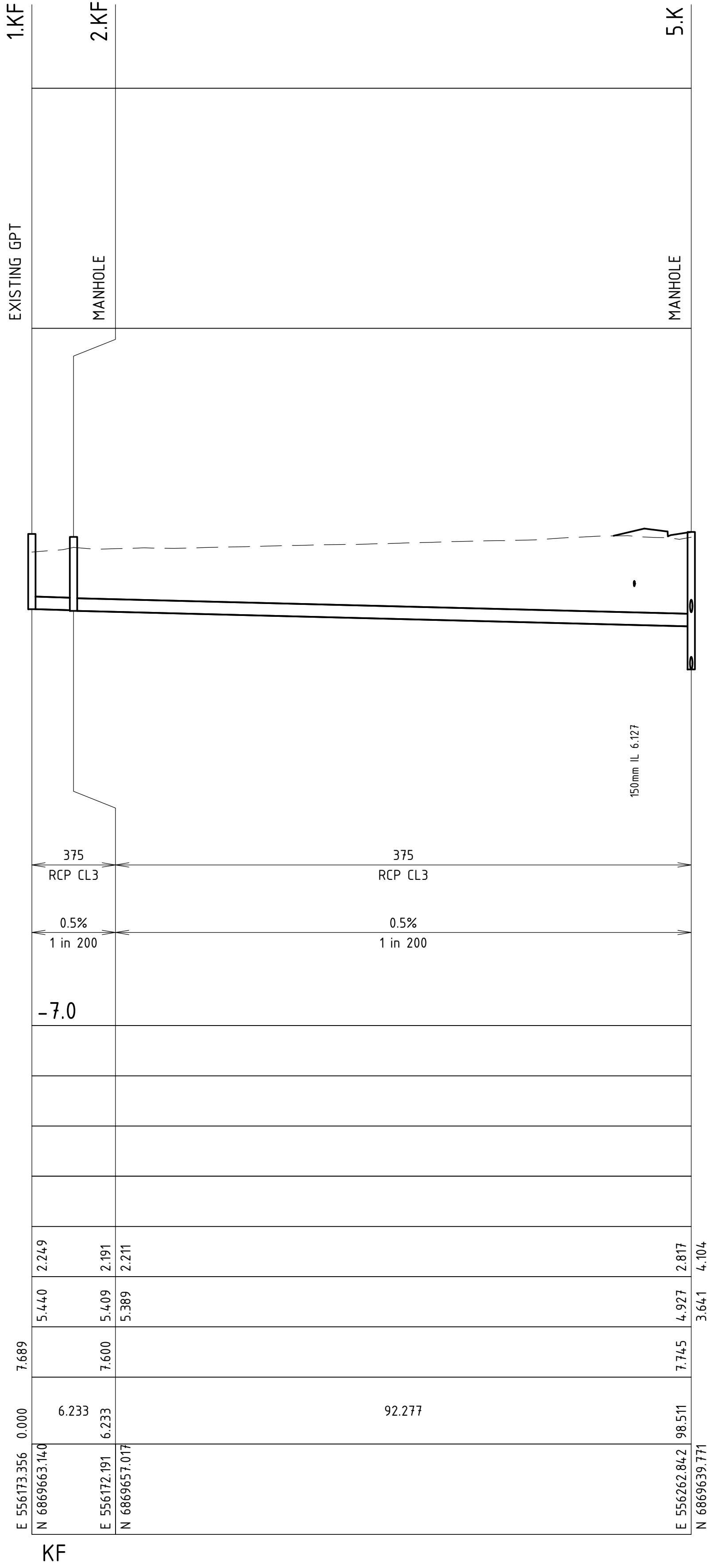
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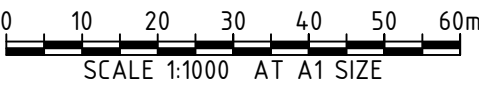
LINE K



KF

NOTE

1. PIPE SIZES TO BE DETERMINED DURING DETAILED DESIGN.



B	08.06.17	ISSUED FOR DA APPROVAL	B.K						
A	09.05.17	ISSUED FOR DA APPROVAL	B.K						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		

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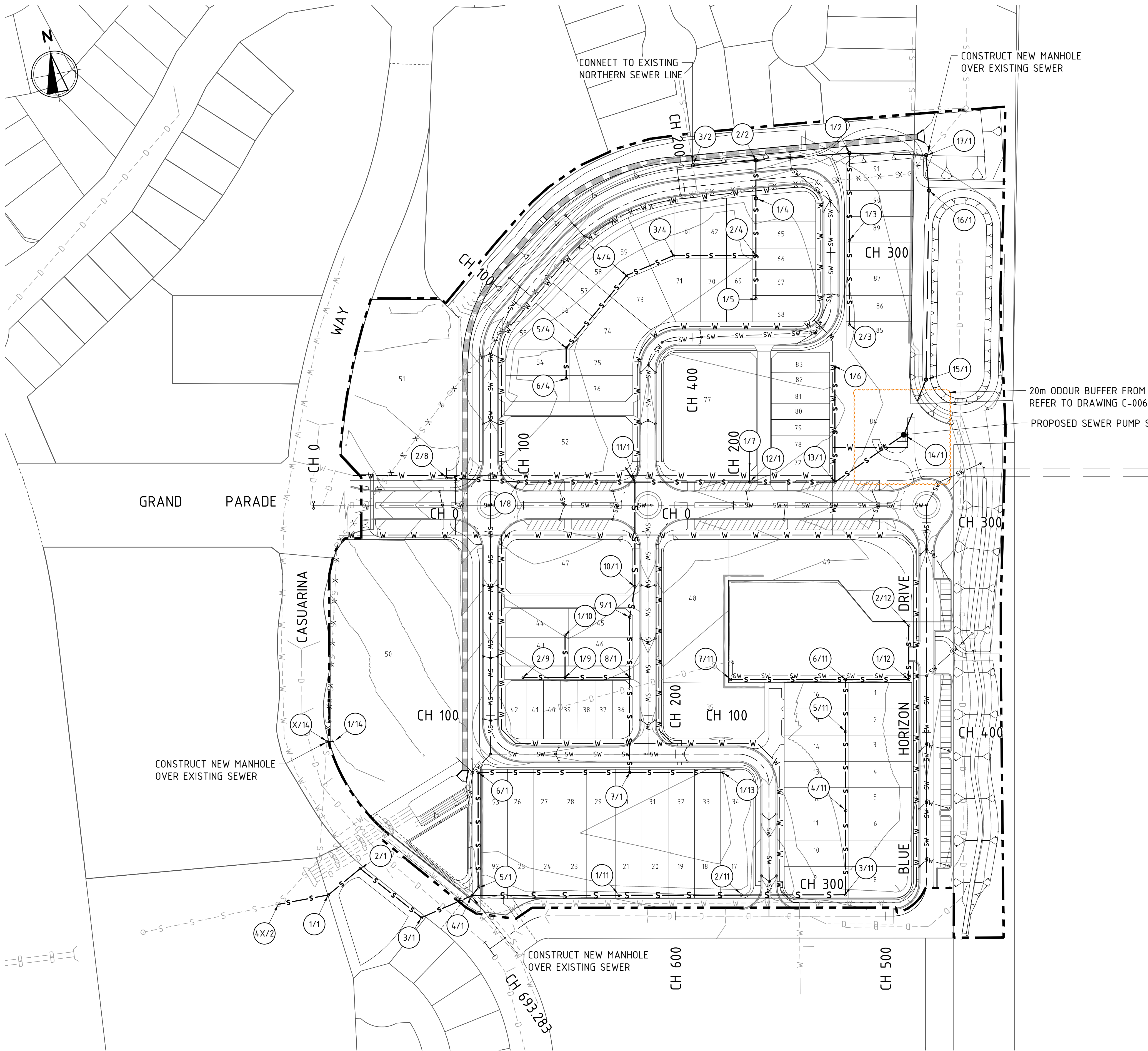


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

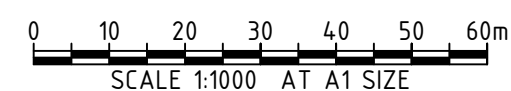
STATUS ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K	DESIGNED B.J	CHECKED M.W	APPROVED B.K
DATUM MGA94	GRID AHD	SCALE AS SHOWN	AT SIZE

TITLE STORMWATER LONGITUDINAL SECTIONS SHEET 7		
PROJECT No. B16097	DRAWING No. C-0041	REV B

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- LEGEND**
- CH 100
 - DESIGN CONTROL LINE
 - LIMIT OF WORKS BOUNDARY
 - PROPOSED LIP OF KERB
 - PROPOSED RETAINING WALL
 - PROPOSED TRUNK SEWER ALIGNMENT (3.0 - 5.0m DEEP)
 - PROPOSED SEWER ALIGNMENT (0 - 3.0m DEEP)
 - PROPOSED SEWER STRUCTURE
 - PROPOSED WATER RETICULATION ALIGNMENT
 - PROPOSED INTERNAL STORMWATER
 - PROPOSED CULVERT AND HEADWALL
 - PROPOSED CONTOUR
 - EXISTING WATER
 - EXISTING TRUNK SEWER ALIGNMENT
 - EXISTING TRUNK SEWER TO BE REMOVED
 - EXISTING CONTOURS



REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD
C	09.08.17	ISSUED FOR DA APPROVAL	B.K.				
B	08.06.17	ISSUED FOR DA APPROVAL	B.K.				
A	09.05.17	ISSUED FOR DA APPROVAL	B.K.				



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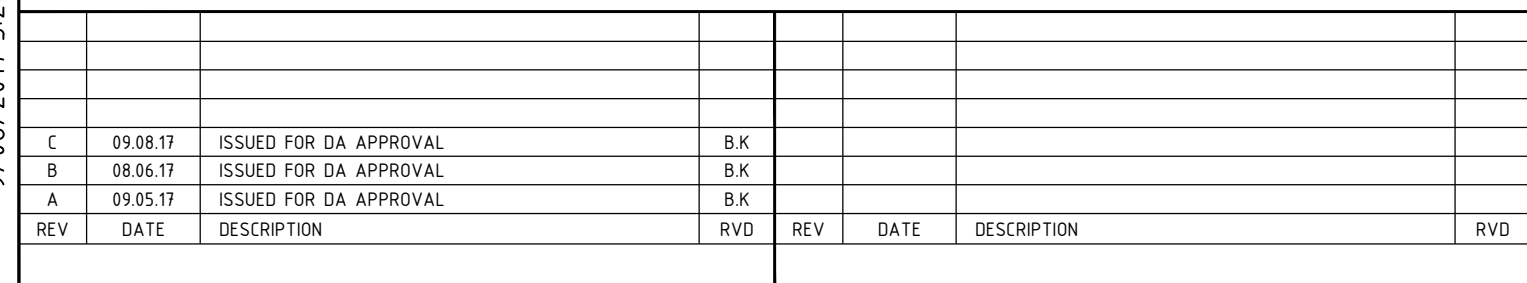


CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN C.K.	DESIGNED B.J.	CHECKED M.W.	APPROVED B.K.
DATUM MGA94	GRID AHD	SCALE 1:1000	AT SIZE

SERVICES PLAN SHEET 1		
PROJECT No. B16097	DRAWING No. C-0050	REV C

LINE 1



PROJECT

CASUARINA BEACH

TOWN CENTRE - STAGE 2

CASUARINA WAY, NSW 2487

STATUS				
ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION				
DRAWN	DESIGNED	CHECKED	APPROVED	
C.K	B.J	M.W	B.K	
DATUM	GRID	SCALE		
MGA94	AHD	AS SHOWN		
			AT	SIG

TITLE	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1
-------	---

PROJECT No. B16097	DRAWING No. C-0055	REV. C
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MANHOLE TYPE						
LID TYPE						
JUNCTION LINE No.	1		3		4	
HC INVERT LEVEL						
LOT No.						
CH. FROM D/S MH						
PIPE SIZE (mm)	Ø150		Ø150		Ø150	
PIPE TYPE/CLASS						
GRADE	0.61%		0.61%		0.61%	
DATUM R.L.	-9.00					
DEPTH TO INVERT FROM DESIGN SURFACE	2.362 2.332		3.823 3.793		4.574 4.544	4.119
INVERT LEVEL	2.256 2.266		2.509 2.539		2.811 2.841	3.025
DESIGN SURFACE LEVEL	4.618		6.332		7.386	
CHAINAGE	0.000 36.510		36.510 44.633		81.144 30.106	

LINE 2

0.000	6.332	5.289	1.044		2.972	Lot 91	IL.5.908 2
42.066		5.836	2.050		17.052	Lot 90	IL.6.038
42.066	7.886	5.866	2.020		29.640	Lot 89	IL.6.107
37.500		6.335	1.709		42.066	Lot 88	IL.6.177
					12.531	Lot 87	IL.6.247
					25.011	Lot 86	IL.6.316
79.566	8.044				37.500	Lot 85	IL.6.442

LINE 3

[illegible]

LINE 4

0.000	8.461	6.053	2.408		8.223	Lot 67	IL.7.048	4
0.747	6.676	1.785						
	6.935	1.421						
20.777	8.356				20.747	Lot 68	IL.6.986	

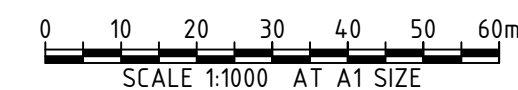
LINE 5

0.000	7.905	6.491	1.414		1	
55.058		6.569	1.336			Lot 72 IL 7.423
						Lot 78 IL 7.562
						Lot 79 IL 7.649
						Lot 80 IL 7.732
						Lot 81 IL 7.623
						Lot 82 IL 7.465
						Lot 83 IL 7.172
		7.120	1.163			

LINE 6

6.313	2.04.9				
6.382	1.980				
6.450	2.208				
0.000	8.362				
6.803					

LINE 7

[illegible]

CLINT

 CLARENCE PROPERTY

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PROJECT

CASUARINA BEACH

TOWN CENTRE - STAGE 2

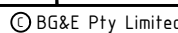
CASUARINA WAY, NSW 2487

STATUS			
ISSUED FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION			
DRAWN	DESIGNED	CHECKED	APPROVED
C.K	B.J	M.W	B.K
DATUM	GRID	SCALE	
MGA94	AHD	AS SHOWN AT	

TITLE	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2
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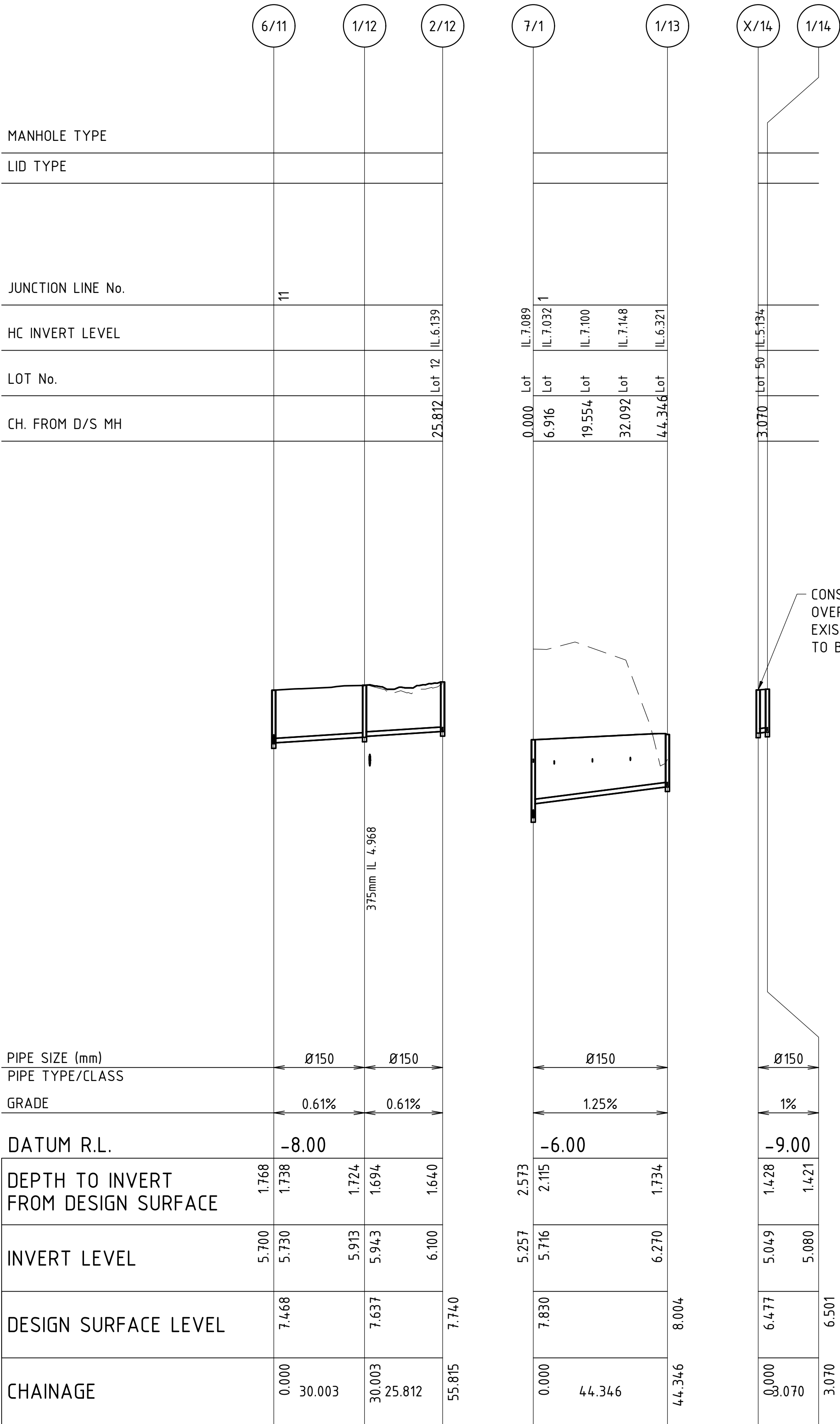
PROJECT No.	DRAWING No.
B16097	C-0056

LINE 11



TITLE SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3		
PROJECT No. B16097	DRAWING No. C-0057	REV. B

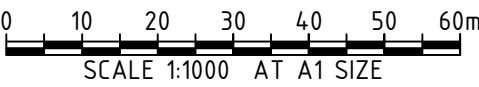
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LINE 12

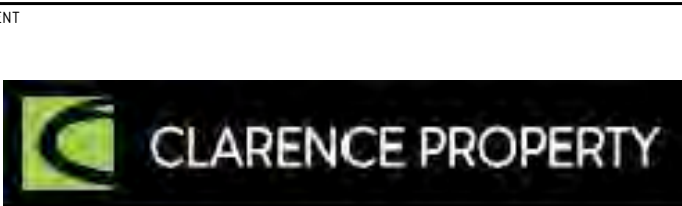
LINE 13

LINE 14



B	08.06.17	ISSUED FOR DA APPROVAL	BK						
A	09.05.17	ISSUED FOR DA APPROVAL	BK						
REV	DATE	DESCRIPTION	RVD	REV	DATE	DESCRIPTION	RVD		

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Brisbane Office—

74-76 Bowen St, Spring Hill QLD 4000

P / +61 7 3167 3300

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BG

&E

PROJECT

CASUARINA BEACH
TOWN CENTRE – STAGE 2
CASUARINA WAY, NSW 2487

STATUS

ISSUED FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION

DRAWN	DESIGNED	CHECKED	APPROVED
C.K	B.J	M.W	B.K

DATUM	GRD	SCALE	AT	SIZE
MGA94	AHD	AS SHOWN		

TITLE

SEWERAGE RETICULATION
LONGITUDINAL SECTIONS
SHEET 4

PROJECT No.	DRAWING No.	REV
B16097	C-0058	B



P:\BGE\BNE\B16097\100 DRAWINGS\102 CIVIL\AUTOCAD\DA APPROVED\B16097-DRG-C-0060.DWG
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CASUARINA BEACH
TOWN CENTRE - STAGE 2
CASUARINA WAY, NSW 2487

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TITLE SEWER PUMP STATION LAYOUT

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TRANSMITTAL



PROJECT: CASUARINA BEACHTOWN CENTRE - STAGE 2 CASUARINA WAY, NSW 2487
PROJECT NO: 0
DESCRIPTION:
TO: GENERAL DISTRIBUTION
Refer to Distribution section below

ORIGINAL DRAWING SIZE: A1
TRANSMITTAL SHEET: C1

		DATE OF ISSUE															
		09	25	08	09												
		05	05	06	08												
		17	17	17	17												
REFERENCE NO.	TITLE	REVISION NUMBER															
C-0001	LOCALITY PLAN AND DRAWING INDEX	A		B	C												
C-0003	SITE LAYOUT PLAN	A	B	C	D												
C-0005	EXISTING FEATURES PLAN	A		B	B												
C-0010	BULK EARTHWORKS PLAN SHEET 1	A		B	C												
C-0011	BULK EARTHWORKS SECTIONS SHEET 1	A		A	A												
C-0012	BULK EARTHWORKS SECTIONS SHEET 2	A		A	A												
C-0013	BULK EARTHWORKS SECTIONS SHEET 3	A		A	A												
C-0014	BULK EARTHWORKS SECTIONS SHEET 4	A		B	B												
C-0015	BULK EARTHWORKS SECTIONS SHEET 5	A		B	B												
C-0016	BULK EARTHWORKS SECTIONS SHEET 6		A	A	A												
C-0020	ROAD LONGITUDINAL SECTION MC01 SHEET 1	A		A	A												
C-0021	ROAD LONGITUDINAL SECTION MC01 SHEET 2	A		A	A												
C-0022	ROAD LONGITUDINAL SECTION MC01 SHEET 3	A		A	A												
C-0023	ROAD LONGITUDINAL SECTION MC02 SHEET 1	A		A	A												
C-0024	ROAD LONGITUDINAL SECTION MC02 SHEET 2	A		A	A												
C-0025	ROAD LONGITUDINAL SECTION MC03 SHEET 1	A		A	A												
C-0026	ROAD LONGITUDINAL SECTION MC04 SHEET 1	A		A	A												
C-0030	STORMWATER LAYOUT PLAN SHEET 1	A		B	C												
C-0035	STORMWATER LONGITUDINAL SECTIONS SHEET 1	A		A	A												
C-0036	STORMWATER LONGITUDINAL SECTIONS SHEET 2	A		A	A												
C-0037	STORMWATER LONGITUDINAL SECTIONS SHEET 3	A		B	B												
C-0038	STORMWATER LONGITUDINAL SECTIONS SHEET 4	A		B	B												
C-0039	STORMWATER LONGITUDINAL SECTIONS SHEET 5	A		B	B												
C-0040	STORMWATER LONGITUDINAL SECTIONS SHEET 6	A		B	B												
C-0041	STORMWATER LONGITUDINAL SECTIONS SHEET 7	A		B	B												
C-0050	SERVICES PLAN SHEET 1	A		B	C												
C-0055	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 1	A		B	C												
C-0056	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 2	A		B	B												
C-0057	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 3	A		B	B												
C-0058	SEWERAGE RETICULATION LONGITUDINAL SECTIONS SHEET 4	A		B	B												
C-0060	SEWER PUMP STATION LAYOUT			A	B												
ISSUED DRAWING SIZE		A1	A1	A1	A1												

DISTRIBUTION	COPIES															
Clarence Property	P	P	P	P												
Newton Denny Chapelle	P	P	P	P												
Tweed Shire Council	P	P	P	P												

ISSUED FOR																
Refer to Legend		A	A	A	A											
☒ Receipt acknowledgement NOT required ☐ Receipt acknowledgement required Please email this sheet to BG&E as Receipt Acknowledgement		BG&E Project Manager: A - Approval AC - As Constructed AR - As Requested BL - Building Licence C - Construction CM - Comments P - Preliminary QS - Costing / Pricing R - Revised RW - Review SG - Signature SM - Submission T - Tender V - Verification WC - With Compliments X - Information														

Received by: Date Received: Signature:
74-76 Bowen Street, Spring Hill QLD 4000, Australia ph: +61 7 3167 3300