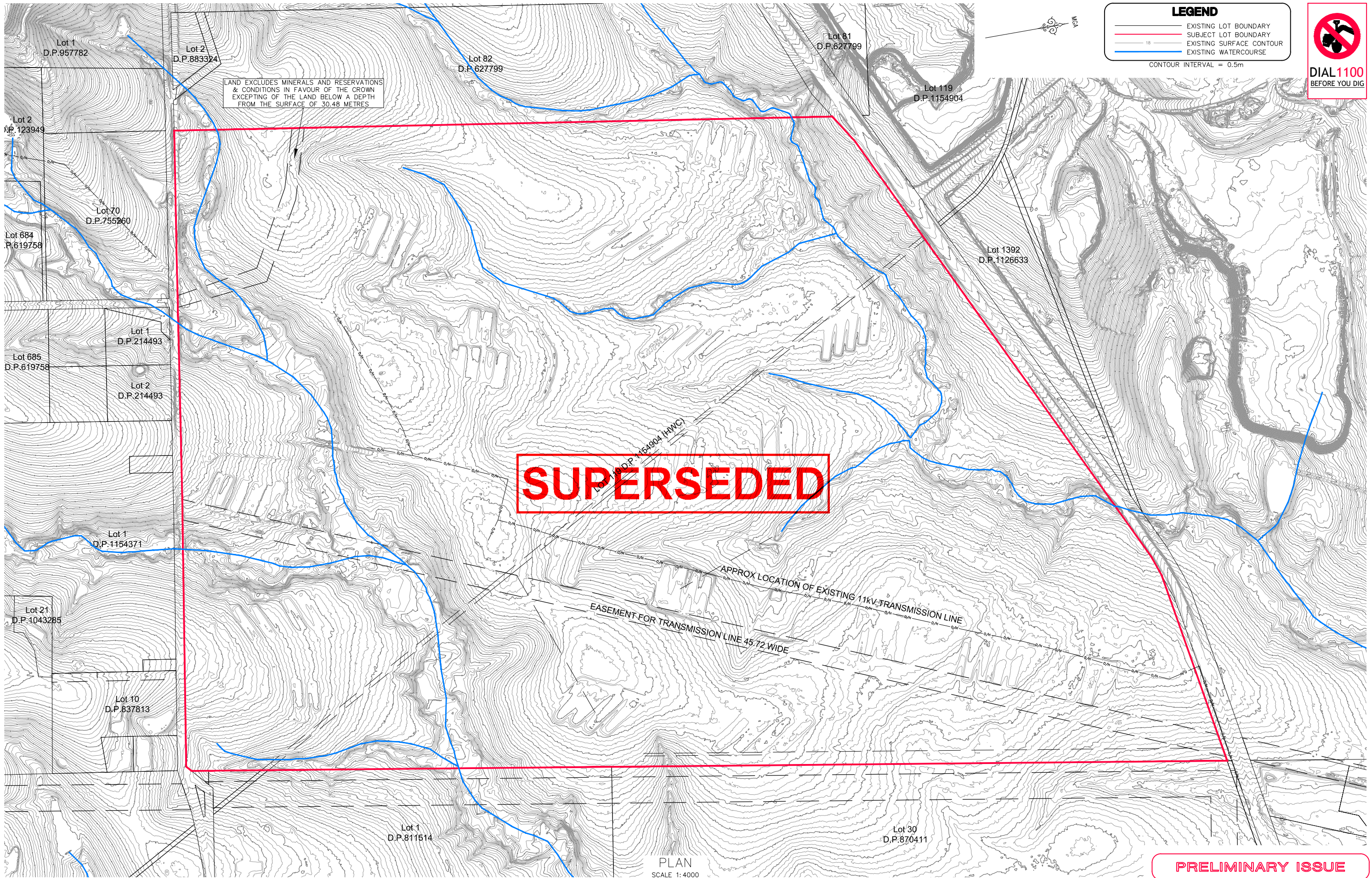


239590(1)-CENG-002(D)

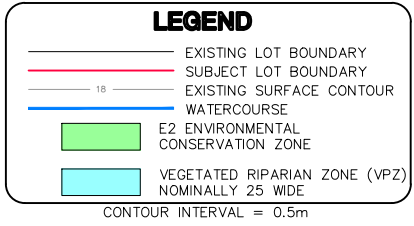
100mm AT FULL SIZE

100mm



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT BLACK HILL CONCEPT PLANS									
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PLAN TITLE EXISTING SITE PLAN									
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.																
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.																
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.																
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)		DISCIPLINE - CENG -		NUMBER 002		REV. D	

Plotted By: elizabethg Plot Date: 17/08/18 - 10:02 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-002(D).dwg

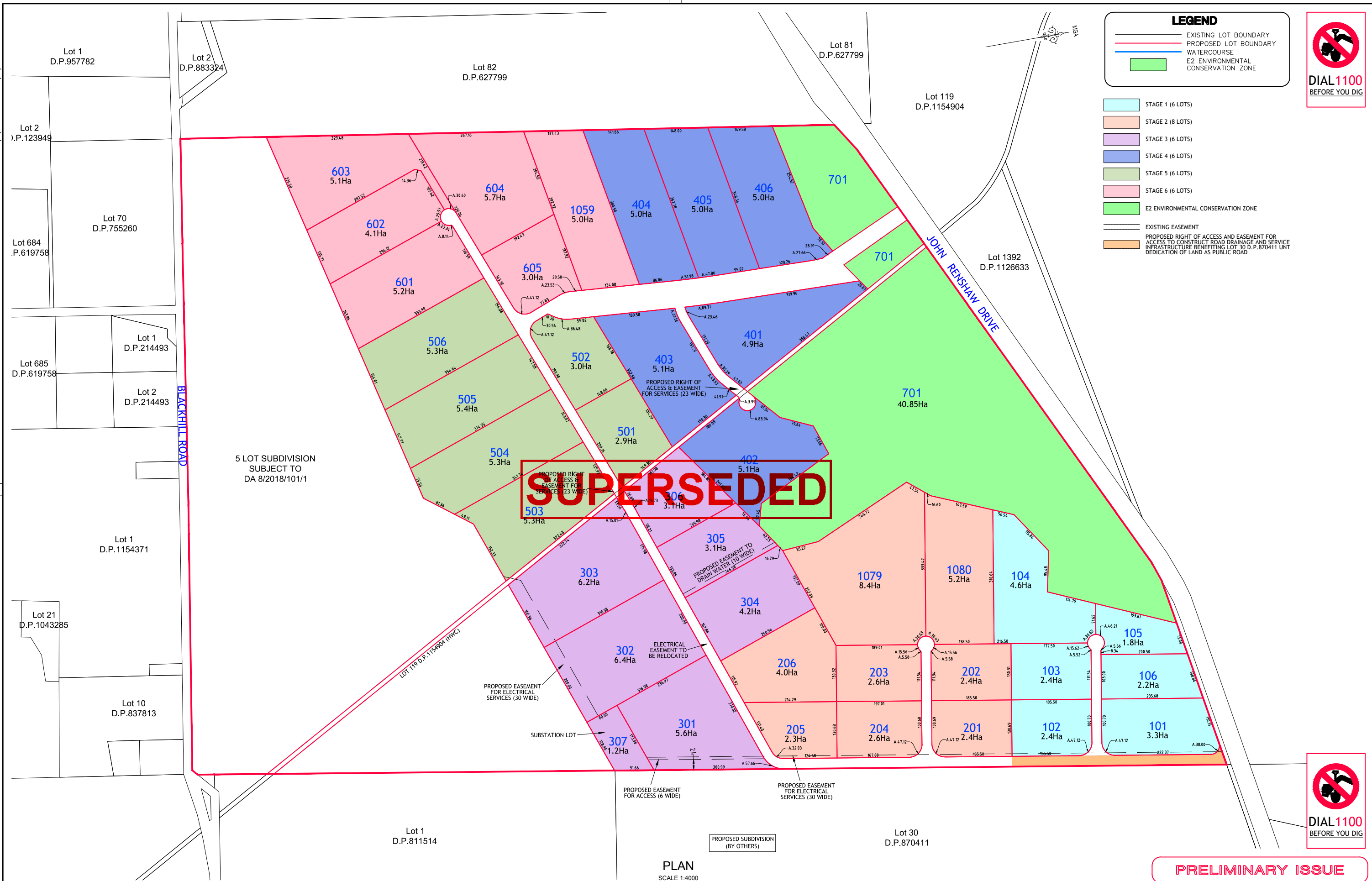


PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT	PROPERTY DESCRIPTION	PROJECT					
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.			BROADEN MANAGEMENT PTY LTD	BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION	BLACK HILL CONCEPT PLANS					
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					PLAN TITLE					
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					PROPOSED SITE PLAN					
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 003	REV. D

239590(1)-CENG-004(D)

100mm AT FULL SIZE



LEGEND

- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- WATERCOURSE
- E2 ENVIRONMENTAL CONSERVATION ZONE
- STAGE 1 (6 LOTS)
- STAGE 2 (8 LOTS)
- STAGE 3 (6 LOTS)
- STAGE 4 (6 LOTS)
- STAGE 5 (6 LOTS)
- STAGE 6 (6 LOTS)
- E2 ENVIRONMENTAL CONSERVATION ZONE
- EXISTING EASEMENT
- PROPOSED RIGHT OF ACCESS AND EASEMENT FOR ACCESS TO CONSTRUCT ROAD DRAINAGE AND SERVICE INFRASTRUCTURE BENEFITTING LOT 30 D.P.870411 UNT DEDICATION OF LAND AS PUBLIC ROAD



PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	CLIENT	PROPERTY DESCRIPTION	PROJECT
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	0 100 200 A1 / A3	Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION	BLACK HILL CONCEPT PLANS
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.	1:4000 / 1:8000	BROADEN MANAGEMENT PTY LTD		PLAN TITLE
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.				STAGING PLAN
D	17.08.2018	AMENDMENTS PER INSTRUCTION								
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson	DATUM A.H.D.
Plotted By: elizabethg Plot Date: 17/08/18 - 10:02 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-004(D).dwg									PROJECT No. 239590(1)	DISCIPLINE CENG
									NUMBER 004	REV. D

100mm AT FULL SIZE



**PROPOSED SUBDIVISION
(BY OTHERS)**

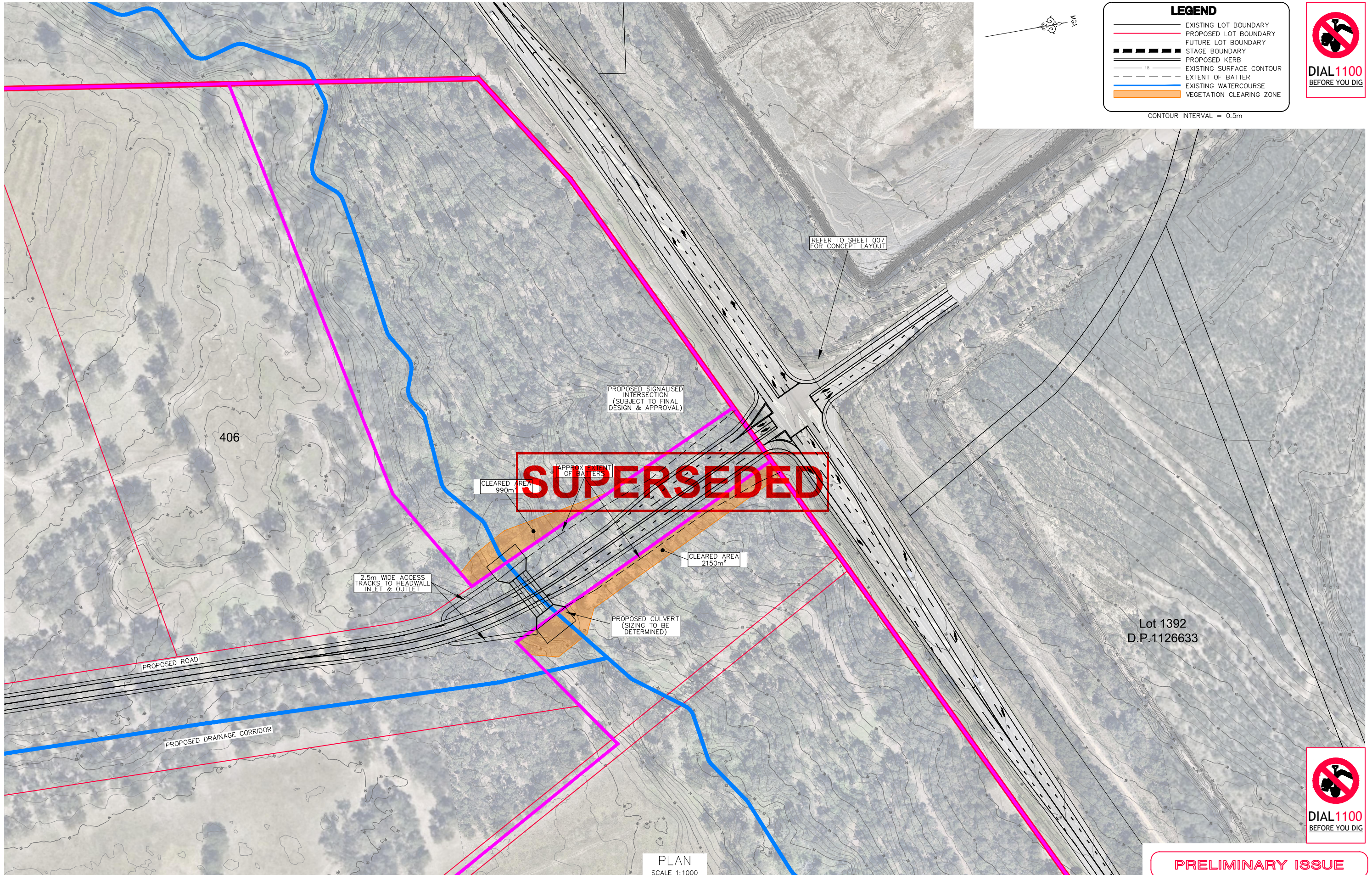
E) Lot 30
D.P.870411

Plotted By: elizabethg Plot Date: 17/08/18 - 10:03 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-005(D).dwg

239590(1)-CENG-006(D)

100mm AT FULL SIZE

1:1000



REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	 A1 / A3 1:1000 / 1:2000				BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		BLACK HILL CONCEPT PLANS			
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.							PLAN TITLE			
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.							WESTERN JOHN RENSHAW DRIVE INTERSECTION ARRANGEMENT			
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE									

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

Plotted By: elizabethg Plot Date: 17/08/18 - 10:03 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-006(D).dwg

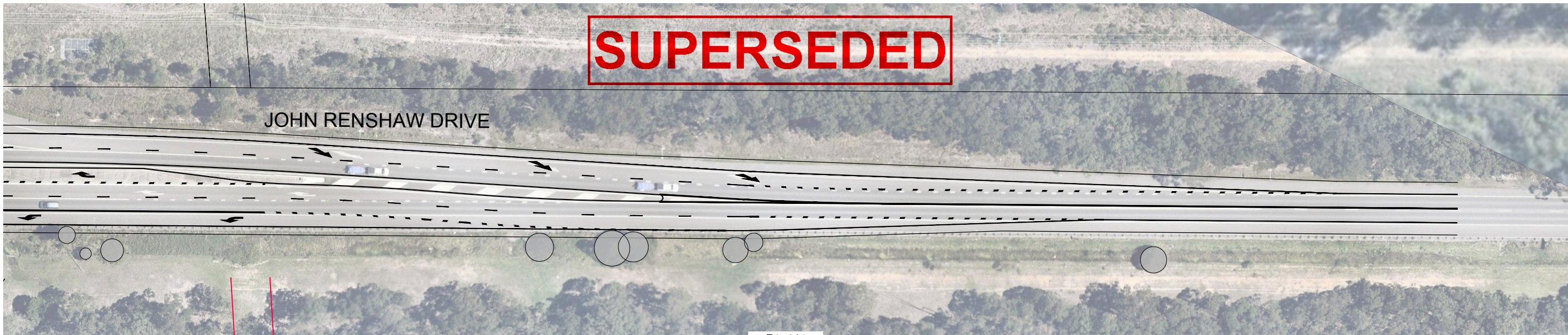
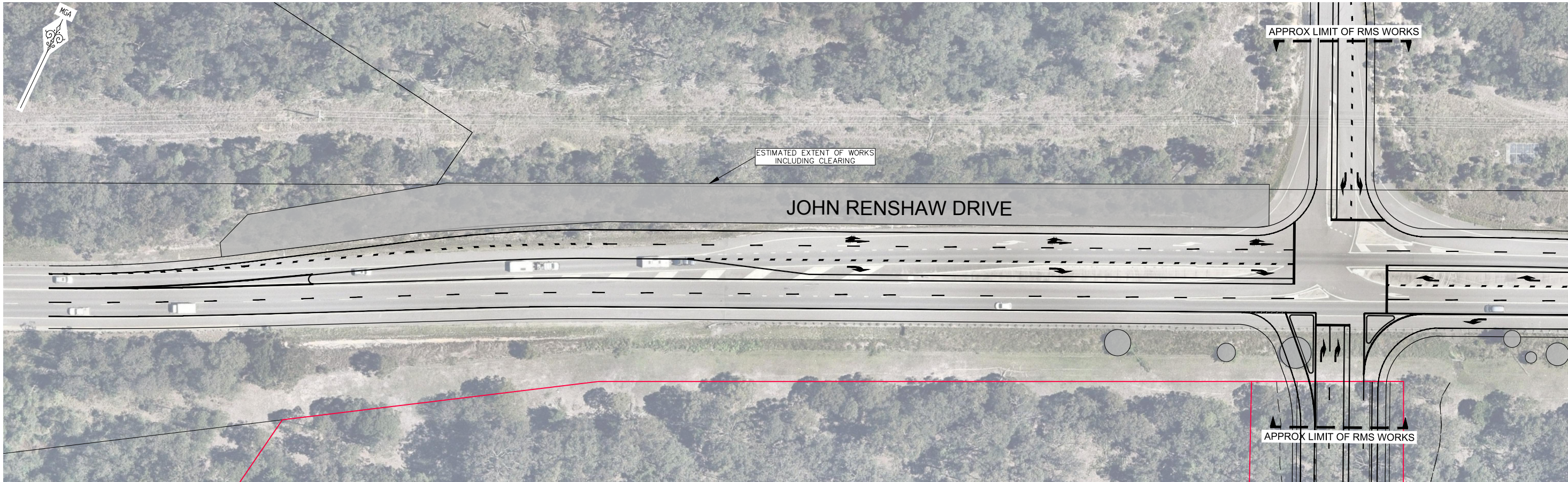


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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS			
			PLAN TITLE WESTERN JOHN RENSHAW DRIVE INTERSECTION ARRANGEMENT			
	SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 006	REV. D

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

Plotted By: elizabethg Plot Date: 17/08/18 - 10:03 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-006(D).dwg



PLAN
SCALE 1:500

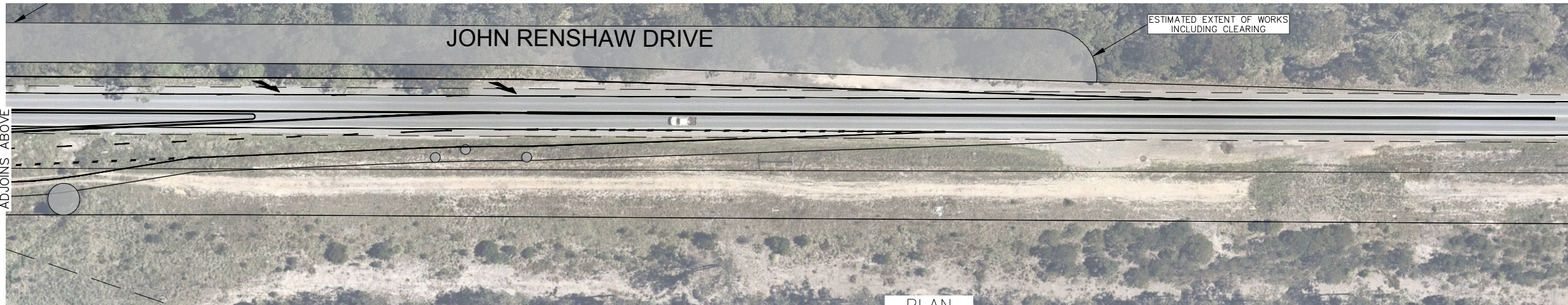
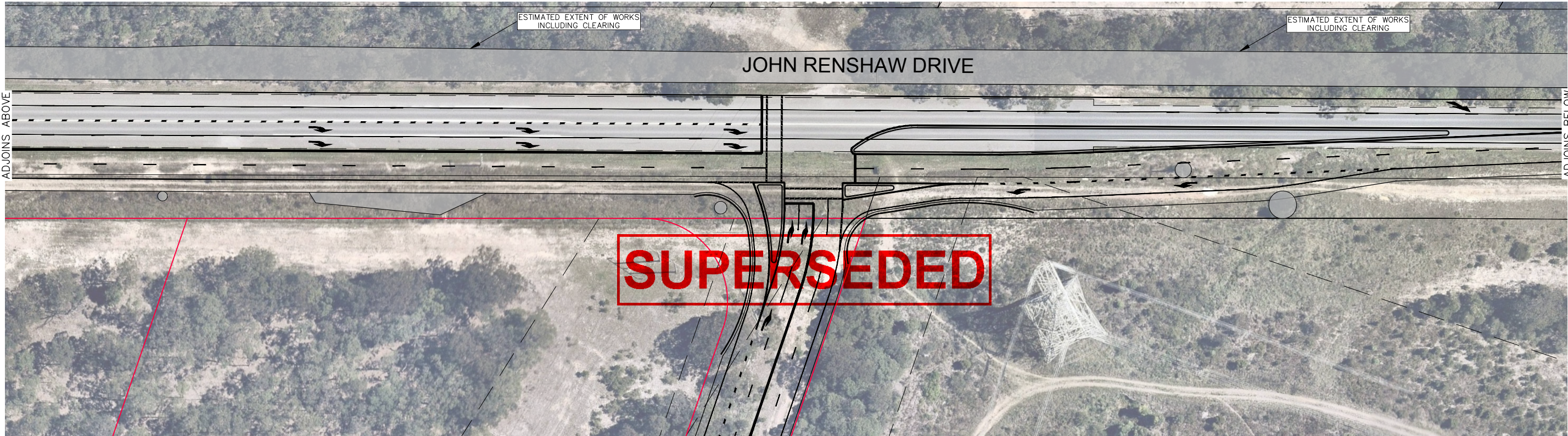
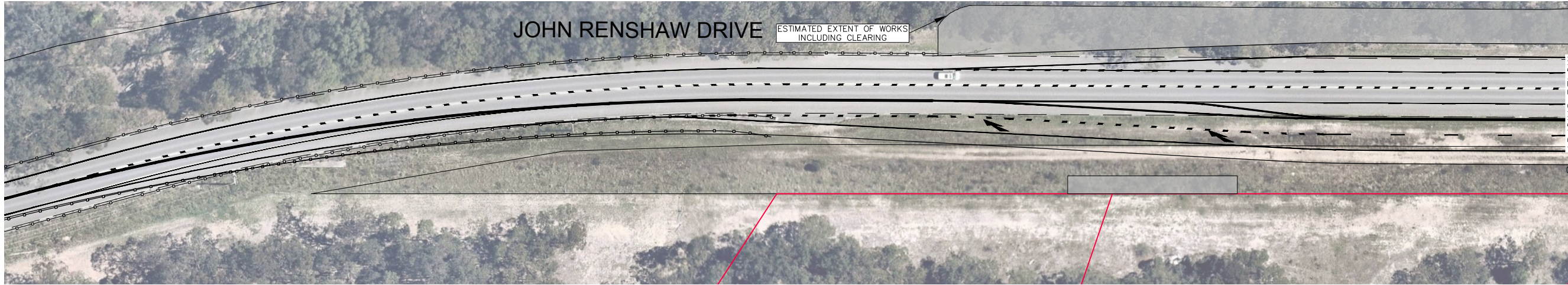
- NOTES:
- 1. INTERSECTION LAYOUT AND LANE CONFIGURATION BASED ON FIGURE3-8 FROM HYDER TRAFFIC AND TRANSPORT REPORT DATED SEPTEMBER 2013.
 - 2. THE REQUIREMENT FOR MEDIAN ISLANDS, INCLUDING WIDTHS, IS SUBJECT TO A TRAFFIC CONTROL SIGNAL (TCS) DESIGN TO CONFIRM THE LOCATION OF SIGNAL POSTS.
 - 3. A DEDICATED ON ROAD CYCLEWAY HAS NOT BEEN PROVIDED AS THERE IS NO CYCLEWAY NETWORK ON THE EXISTING ROAD NETWORK.



PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		BLACK HILL CONCEPT PLANS			
B	08.08.2018	ESTIMATED EXTENT OF CLEARING ADDED	E.G.	R.K.	Z.J.	R.K.							PLAN TITLE			
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.							WESTERN JOHN RENSHAW DRIVE INTERSECTION CONCEPT LAYOUT			
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 007	REV. D

239590(1)-CENG-008(D)



- NOTES:
1. INTERSECTION LAYOUT AND LANE CONFIGURATION BASED ON SIDRA LAYOUT PROVIDED BY RIO TINTO.
 2. THE REQUIREMENT FOR MEDIAN ISLANDS, INCLUDING WIDTHS, IS SUBJECT TO A TRAFFIC CONTROL SIGNAL (TCS) DESIGN TO CONFIRM THE LOCATION OF SIGNAL POSTS.
 3. A DEDICATED ON ROAD CYCLEWAY HAS NOT BEEN PROVIDED AS THERE IS NO CYCLEWAY NETWORK ON THE EXISTING ROAD NETWORK.

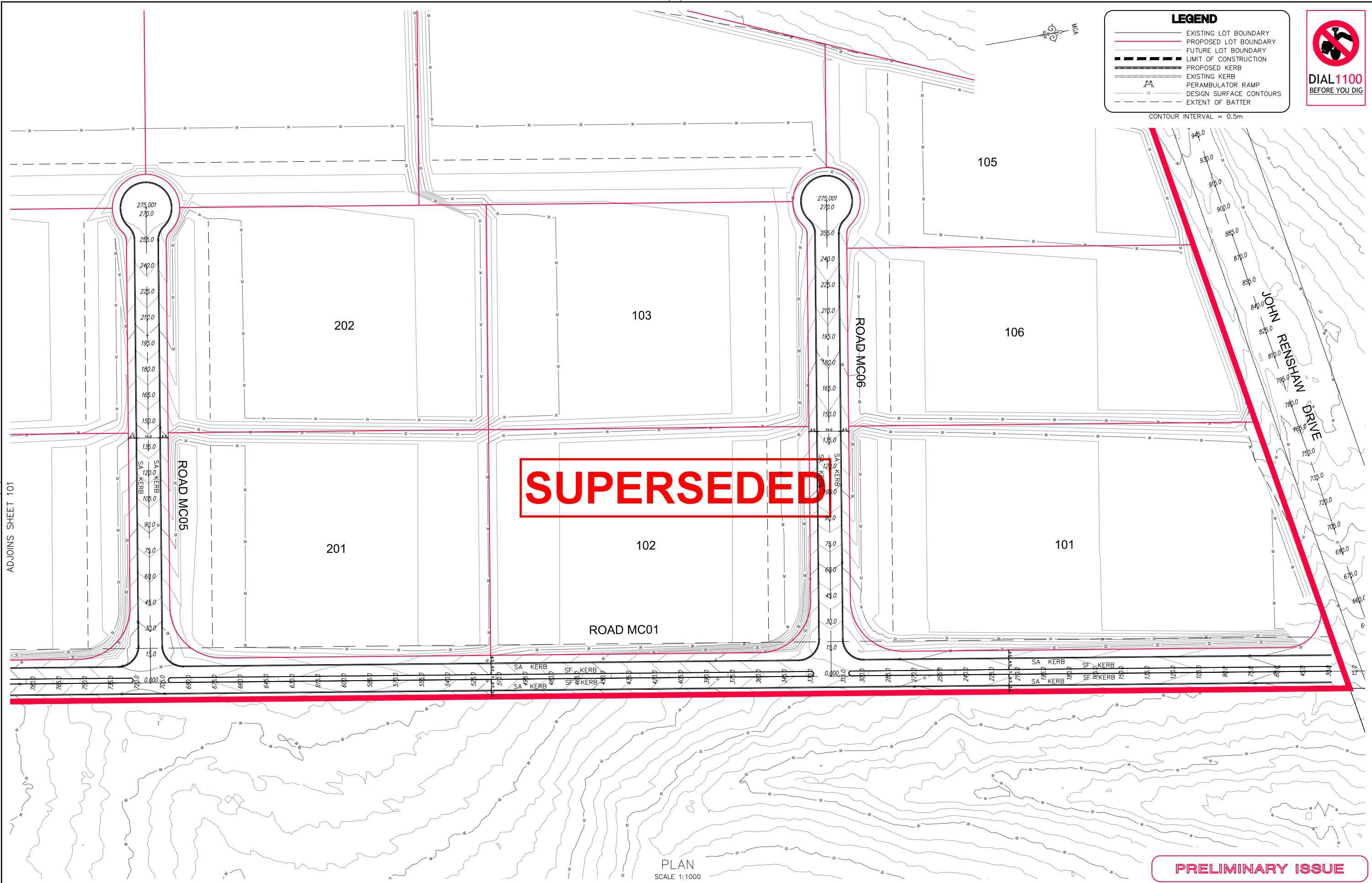


PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT BLACK HILL CONCEPT PLANS															
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179		PLAN TITLE															
B	08.08.2018	ESTIMATED EXTENT OF CLEARING ADDED	E.G.	R.K.	Z.J.	R.K.					JOHN RENSHAW DRIVE, BLACK HILL		EASTERN JOHN RENSHAW DRIVE															
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					DEVELOPMENT APPLICATION		INTERSECTION CONCEPT LAYOUT															
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.																						
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED	ADW Johnson		DATUM	A.H.D.		PROJECT No.	239590(1)		DISCIPLINE	CENG		NUMBER	008		REV.	D	

Plotted By: elizabethg Plot Date: 17/08/18 - 10:03 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-008(D).dwg

239590(1)-CENG-101(D)



REV.		DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES			Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS					
A	B	C	D	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.						PLAN TITLE DETAIL PLAN: SHEET 1					
				10.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.											
				14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.											
				17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.											
DESIGN FILE N:\239590\Design\12D\									ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 101	REV. D

239590(1)-CENG-102(D)

ADJOINS SHEET 103

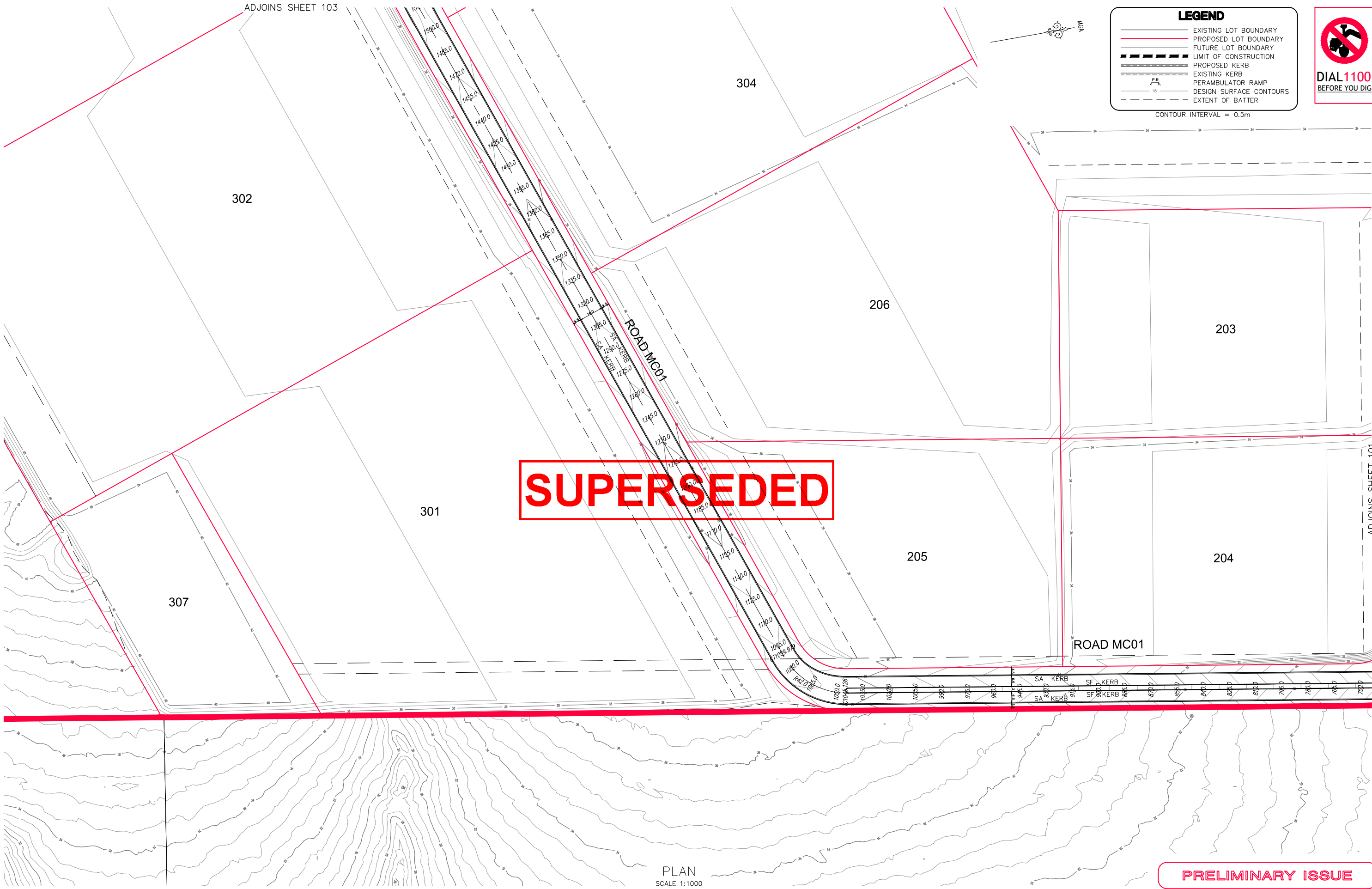
LEGEND

- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- FUTURE LOT BOUNDARY
- LIMIT OF CONSTRUCTION
- PROPOSED KERB
- EXISTING KERB
- PERAMBULATOR RAMP
- DESIGN SURFACE CONTOURS
- EXTENT OF BATTER

CONTOUR INTERVAL = 0.5m



DIAL 1100
BEFORE YOU DIG



ADJOINS SHEET 101

100mm AT FULL SIZE

REV.				DATE				AMENDMENT				DRAWN				CHECK				DESIGN				VERIFY				SCALES			
A				03.08.2018				INITIAL ISSUE				E.G.				R.K.				Z.J.				R.K.				0			
B				10.08.2018				AMENDMENTS PER INSTRUCTION				Z.J.				R.K.				Z.J.				R.K.				10			
C				14.08.2018				AMENDMENTS PER INSTRUCTION				E.G.				R.K.				Z.J.				R.K.				20			
D				17.08.2018				AMENDMENTS PER INSTRUCTION				E.G.				R.K.				Z.J.				R.K.				30			
																												40			
																												A1 / A3			
																												1:1000 / 1:2000			



Hunter Office
Unit 7/335 Hillsborough Rd
Warners Bay N.S.W. 2282
Phone: (02) 4978 5100
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email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

BROADEN MANAGEMENT PTY LTD

PROPERTY DESCRIPTION

BLACK HILL INDUSTRIAL SUBDIVISION
LOT 1131 D.P.1057179
JOHN RENSHAW DRIVE, BLACK HILL
DEVELOPMENT APPLICATION

PROJECT

BLACK HILL CONCEPT PLANS

PLAN TITLE

DETAIL PLAN: SHEET 2

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT No.

239590(1)

DISCIPLINE

CENG

NUMBER

102

REV.

D

239590(1)-CENG-103(D)

100mm AT FULL SIZE

100mm AT FULL SIZE

ADJOINS BELOW

501

503

303

306

SUPERSEDED

506

505

605

606

502

ADJOINS SHEET 104

LEGEND

- EXISTING LOT BOUNDARY
- PROPOSED LOT BOUNDARY
- FUTURE LOT BOUNDARY
- LIMIT OF CONSTRUCTION
- PROPOSED KERB
- EXISTING KERB
- PERAMBULATOR RAMP
- DESIGN SURFACE CONTOURS
- EXTENT OF BATTER

CONTOUR INTERVAL = 0.5m



DIAL 1100
BEFORE YOU DIG

PLAN

SCALE 1:1000

ADJOINS SHEET 102

PLAN

SCALE 1:1000

ADJOINS ABOVE

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	 1:1000 / 1:2000
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.	
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.	
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.	

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Plotted By: elizabethg Plot Date: 17/08/18 - 10:04

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Phone: (02) 4978 5100
Fax: (02) 4978 5199
email: hunter@adwjohnson.com.au
www.adwjohnson.com.au
ABN 62 129 445 398

CLIENT

**BROADEN MANAGEMENT
PTY LTD**

PROPERTY DESCRIPTION

**BLACK HILL
INDUSTRIAL SUBDIVISION
LOT 1131 D.P.1057179
JOHN RENSHAW DRIVE, BLACK HILL
DEVELOPMENT APPLICATION**

SURVEYED

ADW Johnson

DATUM

A.H.D.

PROJECT

BLACK HILL CONCEPT PLANS

PLAN TITLE

DETAIL PLAN: SHEET 3

PROJECT No.

239590(1)

DISCIPLINE

CENG

NUMBER

103

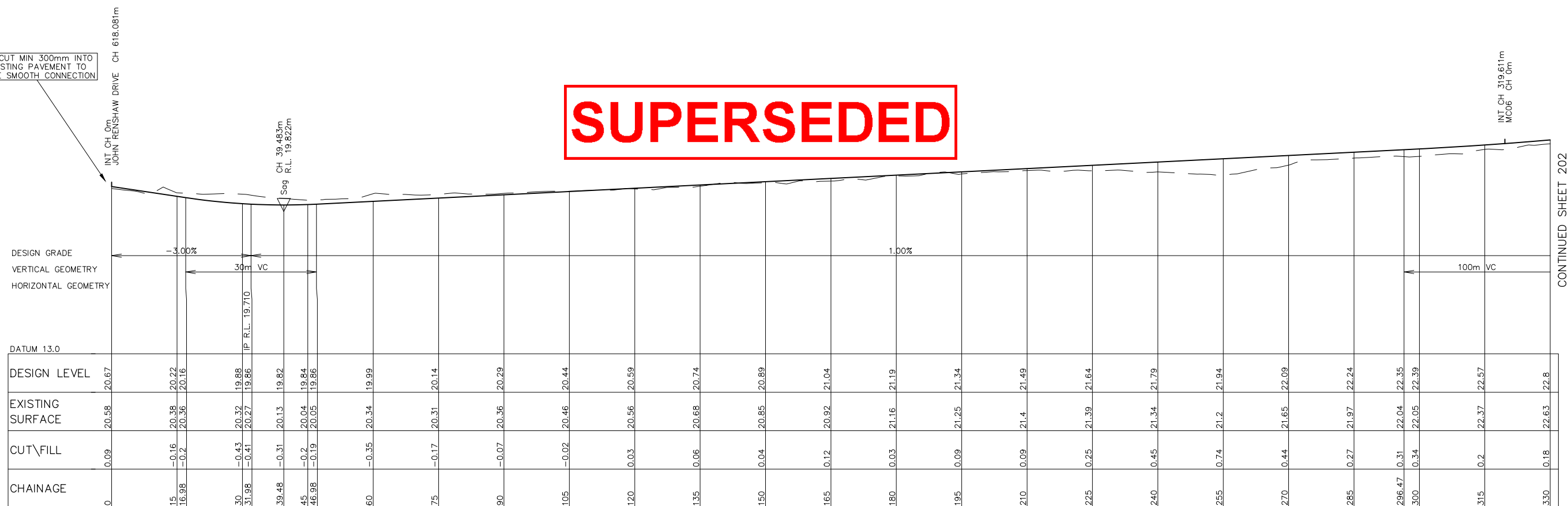
REV.

D



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SUPERSEDED

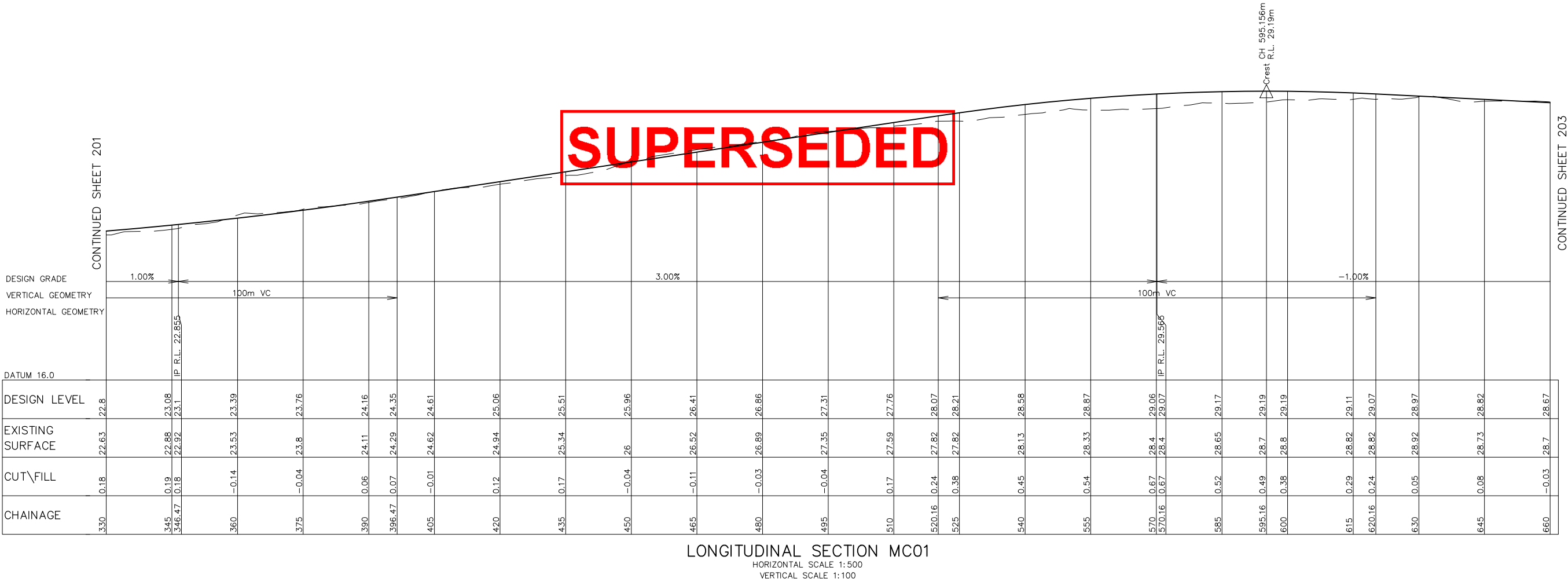


LONGITUDINAL SECTION MC01

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

REV.		DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>BROADEN MANAGEMENT PTY LTD</p>	CLIENT	PROPERTY DESCRIPTION		PROJECT								
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	<p>VERT  A1 / A3 1:100 / 1:200</p> <p>HORIZ  A1 / A3 1:500 / 1:1000</p>	BLACK HILL CONCEPT PLANS					PLAN TITLE										
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.		ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 1															
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.																	
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.																	
DESIGN FILE N: \\239590\\Design\\12D\\								ALL DIMENSIONS ARE IN METRES. DO NOT SCALE															
												SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)		DISCIPLINE - CENG -		NUMBER 201		REV. D	

Plotted By: elizabethg Plot Date: 17/08/18 - 10:04 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-201(D).dwg



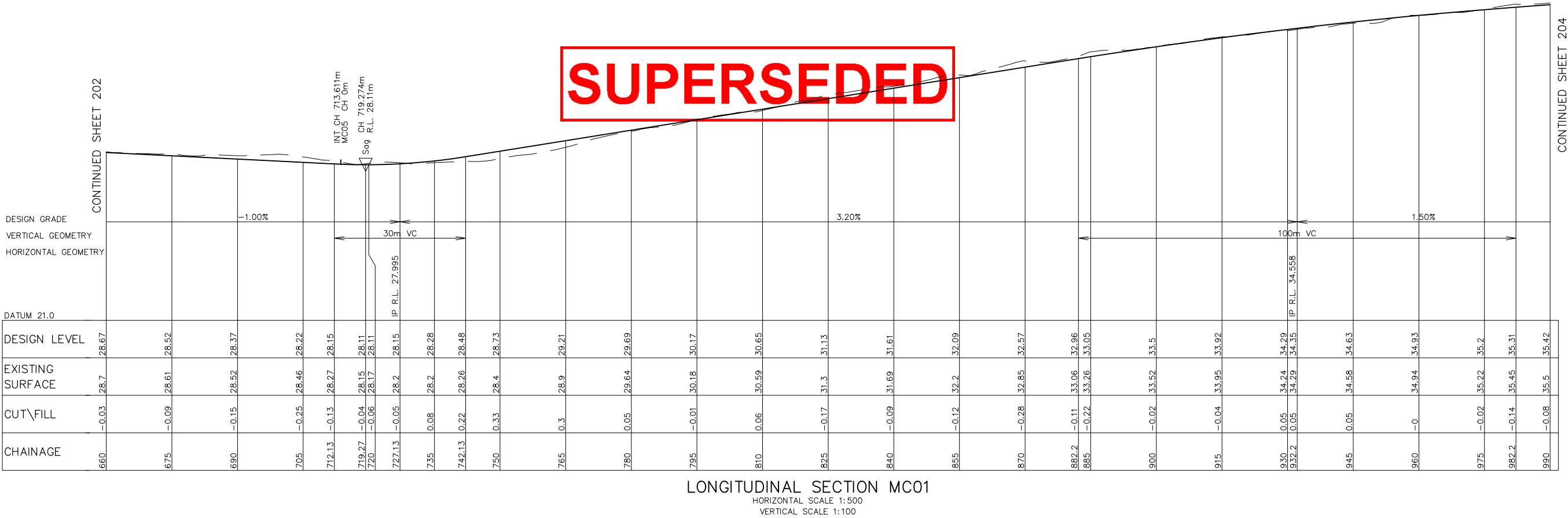
PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS				
A B C D	03.08.2018 10.08.2018 14.08.2018 17.08.2018	INITIAL ISSUE AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION	E.G. Z.J. E.G. E.G.	R.K. R.K. R.K. R.K.	Z.J. Z.J. Z.J. Z.J.	R.K. R.K. R.K. R.K.	PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 2										
							PROJECT No. 239590(1)						DISCIPLINE - CENG	NUMBER - 202	REV. D		

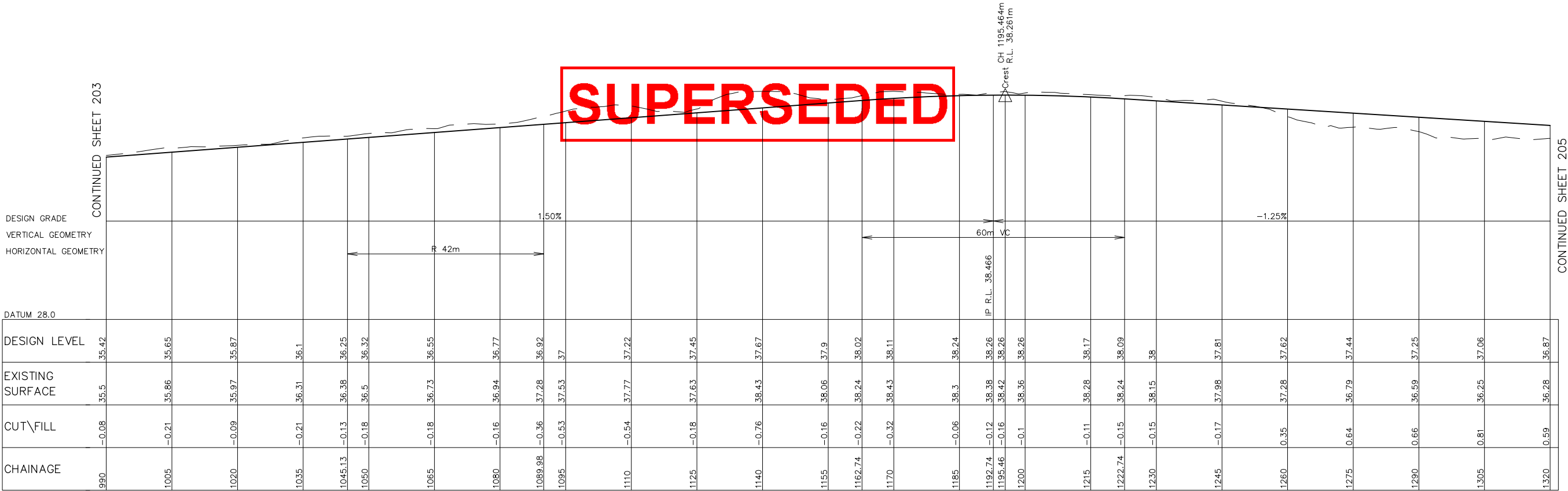
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ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

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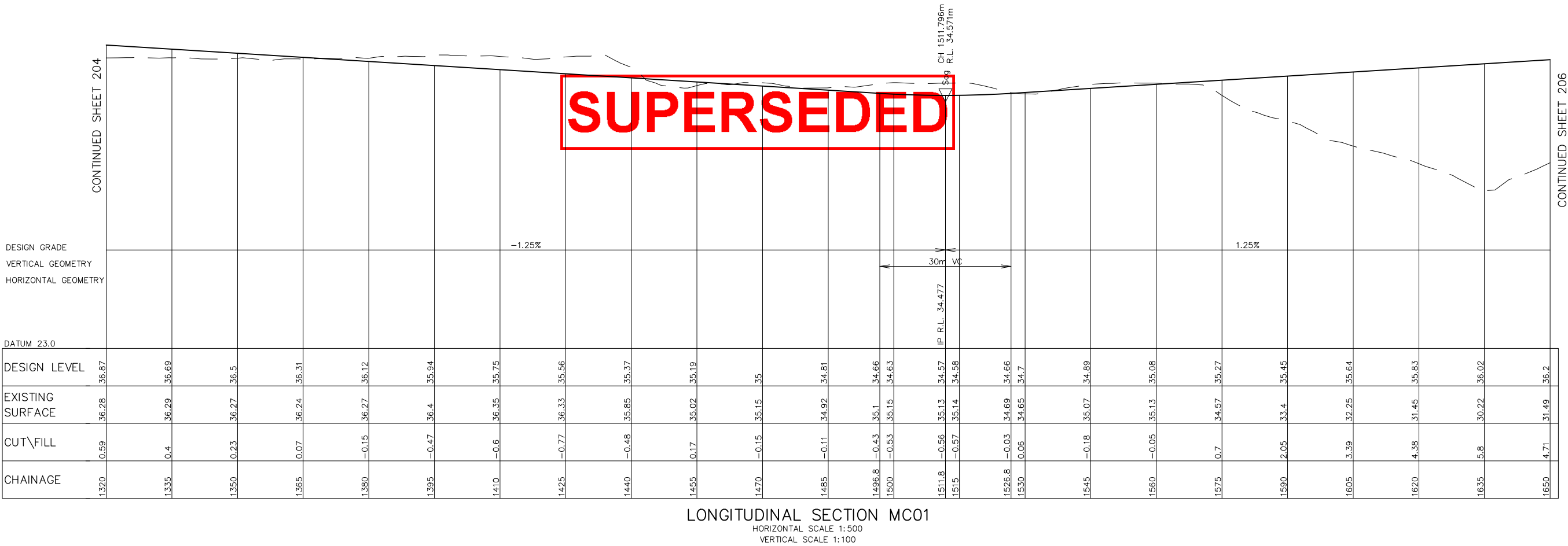
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		BLACK HILL CONCEPT PLANS			
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.							PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 3			
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 203	REV. D



LONGITUDINAL SECTION MC01
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT				
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		BLACK HILL CONCEPT PLANS				
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					PLAN TITLE		ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 4				
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 4						
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.						SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE					ADW Johnson	A.H.D.	239590(1)	- CENG	- 204	D

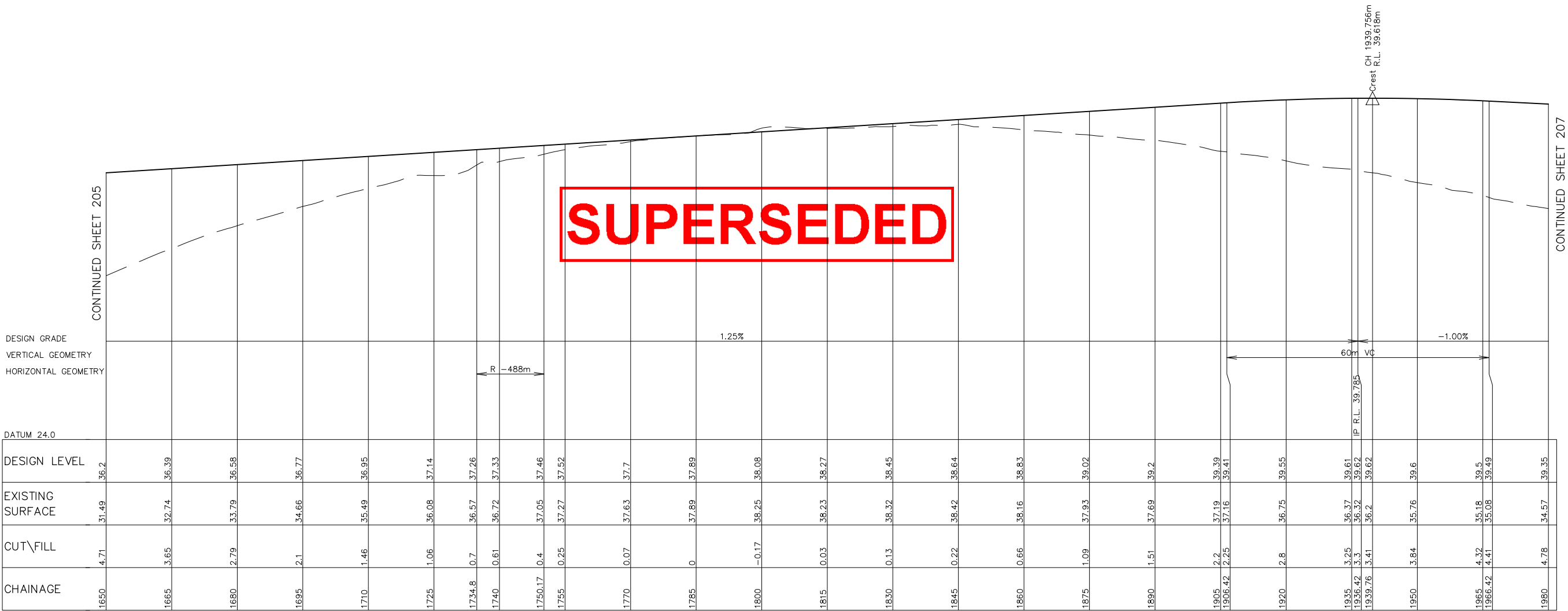


PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS			
A	B	C	D	E.G.	R.K.	Z.J.	R.K.						PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 5			
03.08.2018	10.08.2018	14.08.2018	17.08.2018	E.G.	R.K.	Z.J.	R.K.						PROJECT No.	DISCIPLINE	NUMBER	REV.
INITIAL ISSUE	AMENDMENTS PER INSTRUCTION	AMENDMENTS PER INSTRUCTION	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.						239590(1)	- CENG	- 205	D

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Plotted By: elizabethg Plot Date: 17/08/18 - 10:04 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-205(D).dwg



LONGITUDINAL SECTION MC01
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PRELIMINARY ISSUE

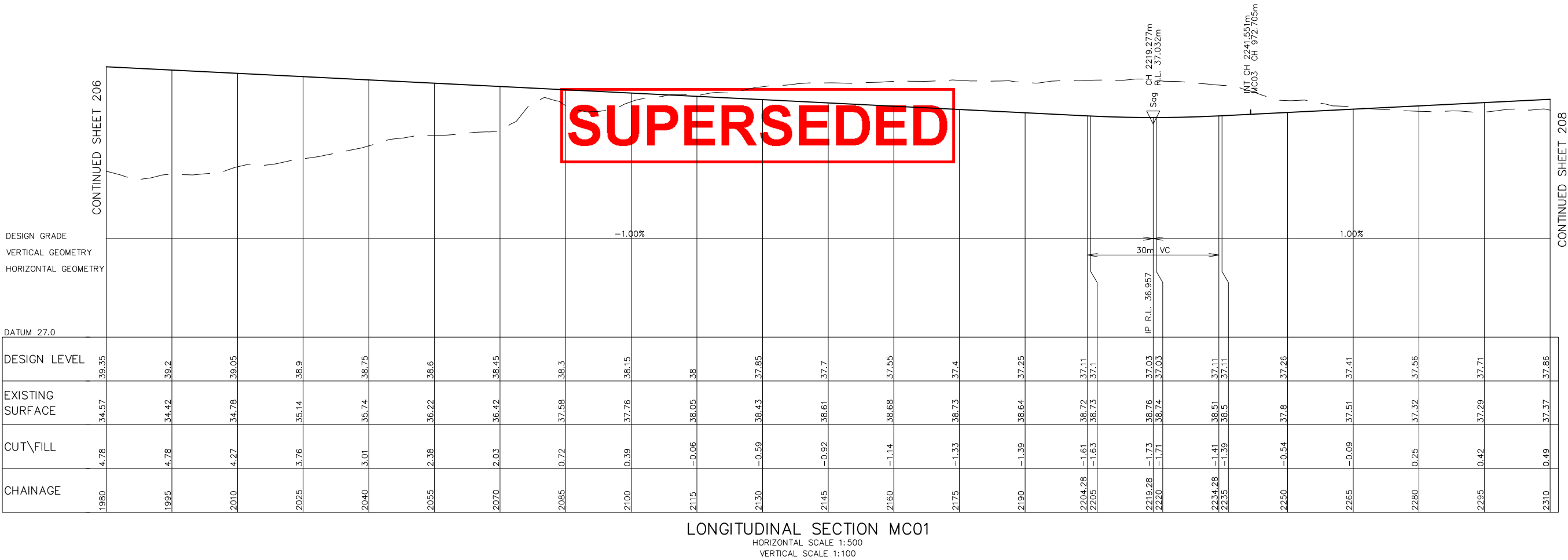
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS		
A	B	C	D	E.G.	R.K.	Z.J.	R.K.						PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 6		
03.08.2018	10.08.2018	14.08.2018	17.08.2018	E.G.	R.K.	Z.J.	R.K.						PROJECT No.	DISCIPLINE	NUMBER
INITIAL ISSUE	AMENDMENTS PER INSTRUCTION	AMENDMENTS PER INSTRUCTION	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.						239590(1)	- CENG	206

DESIGN FILE N:\239590\Design\12D\

Plotted By: elizabethg Plot Date: 17/08/18 - 10:05 Cad File: N:\239590\Drawings\Engineering\Civil\CONCEPT\239590(1)-CENG-206(D).dwg

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

SURVEYED ADW Johnson	DATUM A.H.D.	REV. D
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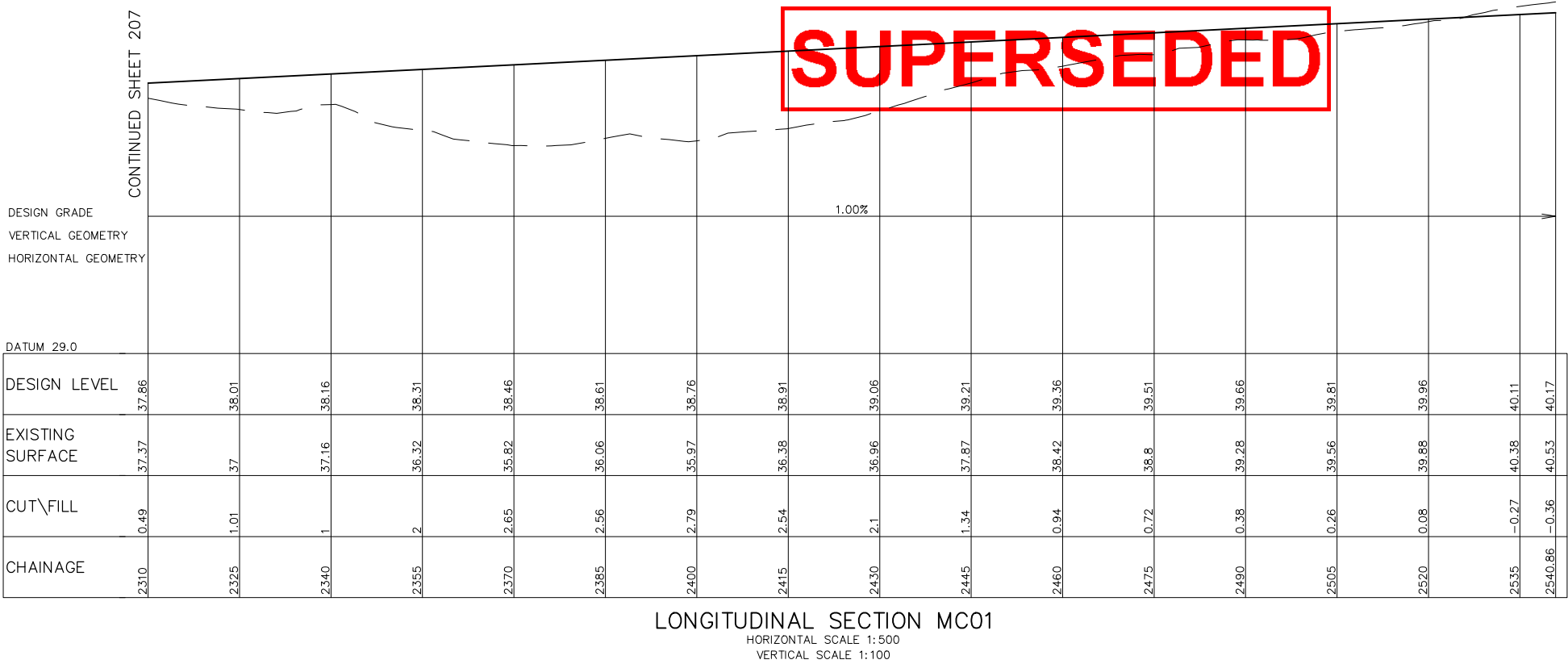


PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS							
A B C D	03.08.2018 10.08.2018 14.08.2018 17.08.2018	INITIAL ISSUE AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION	E.G. Z.J. E.G. E.G.	R.K. R.K. R.K. R.K.	Z.J. Z.J. Z.J. Z.J.	R.K. R.K. R.K. R.K.	PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 7													
							PROJECT No.						DISCIPLINE		NUMBER		REV.			
							239590(1)						- CENG		- 207		D			

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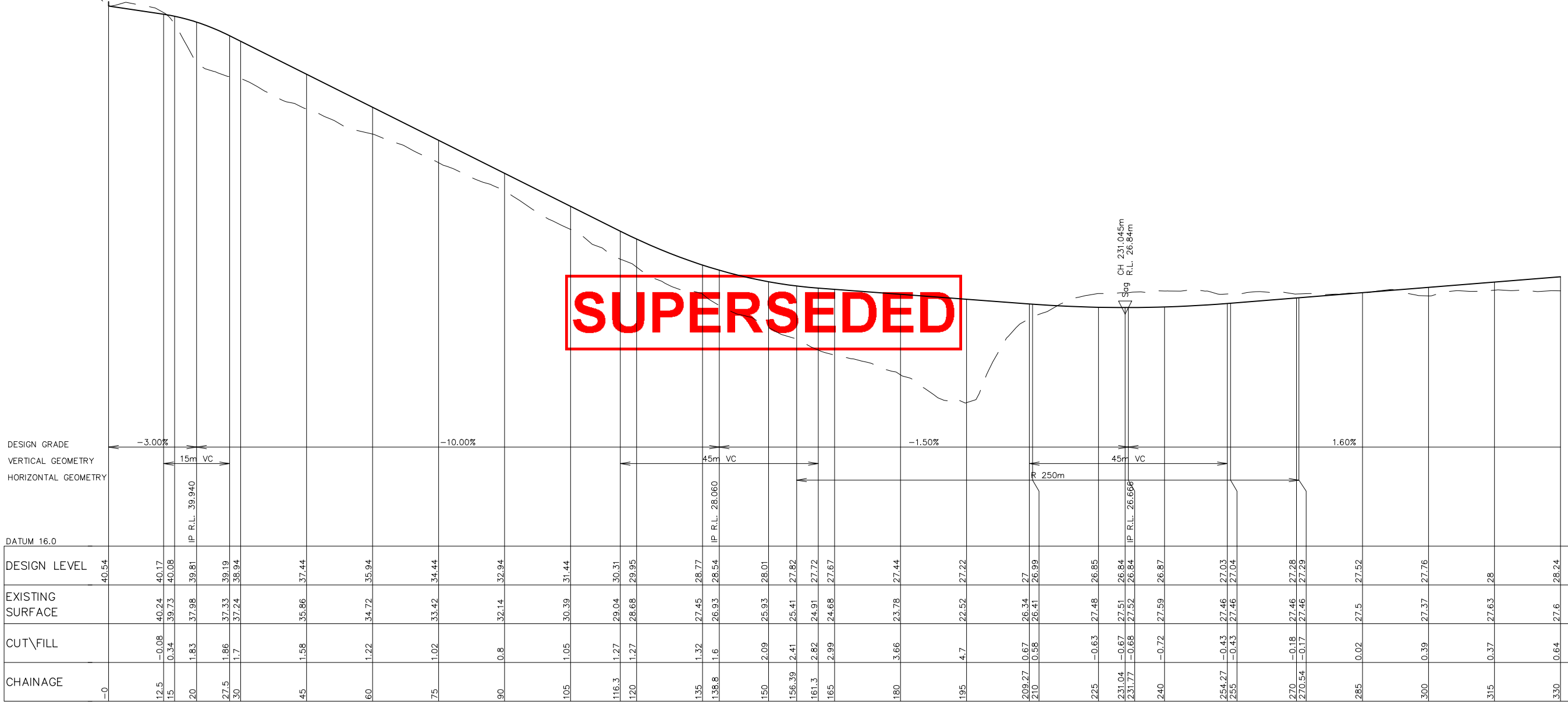
SUPERSEDED

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT	PROPERTY DESCRIPTION	PROJECT			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.			BROADEN MANAGEMENT PTY LTD	BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION	BLACK HILL CONCEPT PLANS			
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					PLAN TITLE			
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 8			
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.								
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 208	REV. D

SAWCUT MIN 300mm INTO
EXISTING PAVEMENT TO
MAKE SMOOTH CONNECTION

INT CH 0m
JOHN RENSHAW DRIVE CH 2109.728m

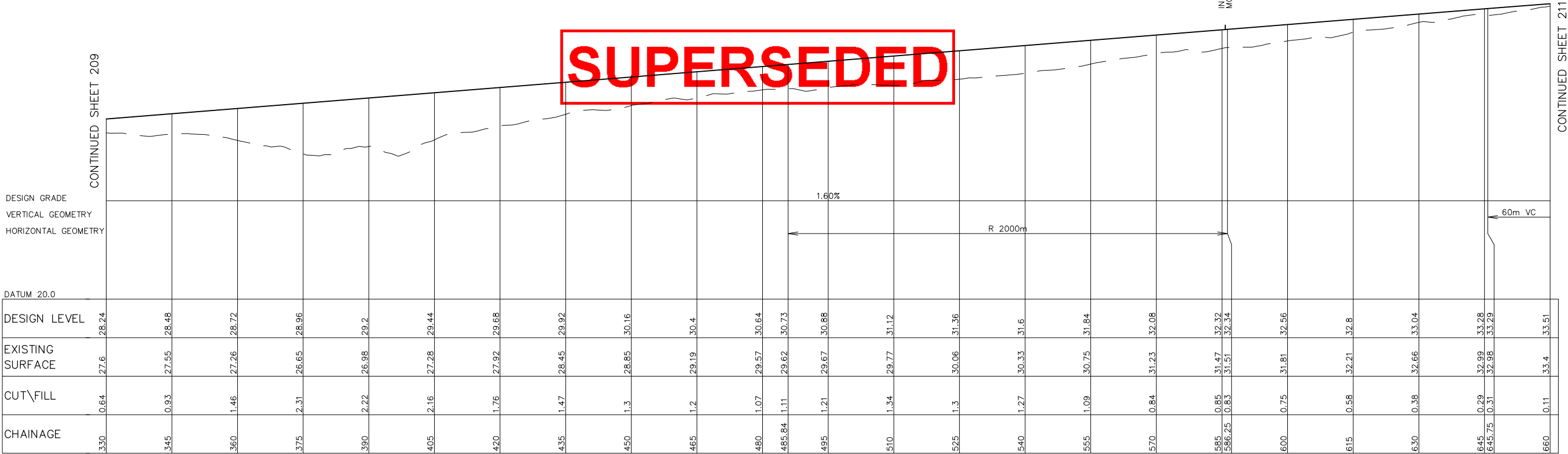


CONTINUED SHEET 210

LONGITUDINAL SECTION MC03
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PRELIMINARY ISSUE

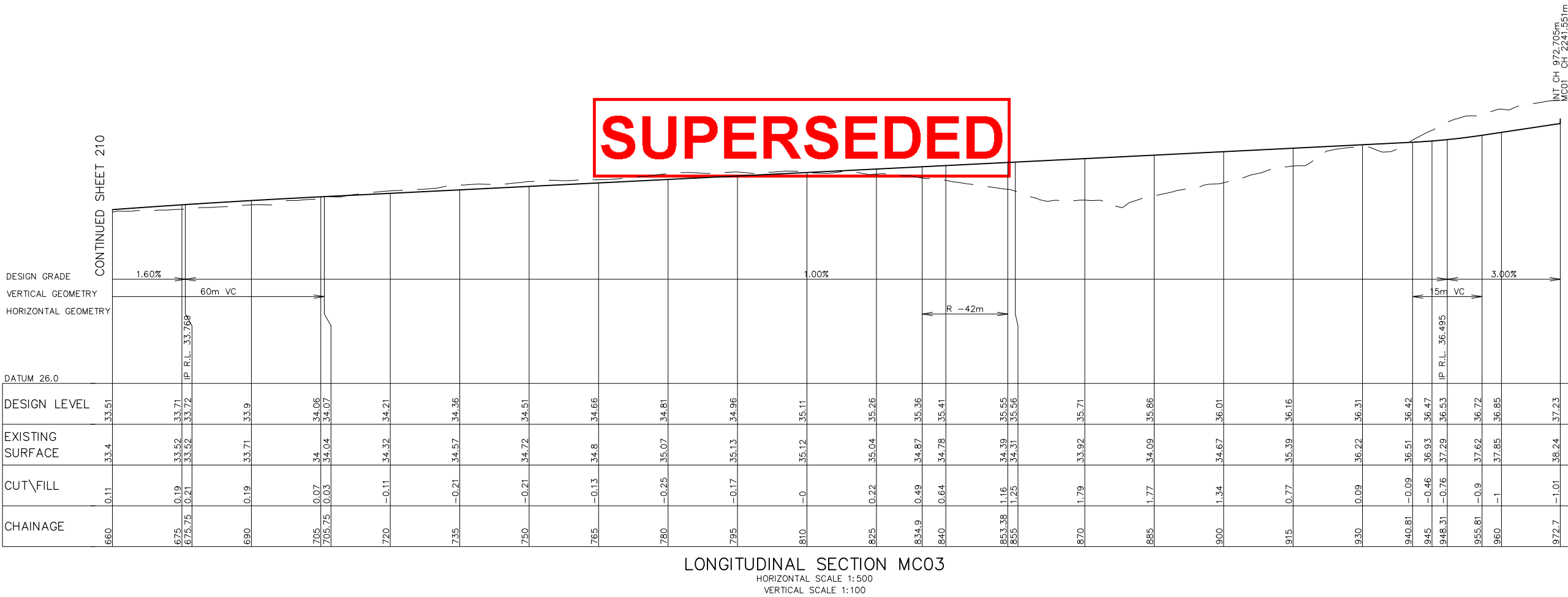
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		BLACK HILL CONCEPT PLANS			
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.										
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)	DISCIPLINE - CENG



LONGITUDINAL SECTION MC03
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PROJECT BLACK HILL CONCEPT PLANS				
A B C D	03.08.2018 10.08.2018 14.08.2018 17.08.2018	INITIAL ISSUE AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION AMENDMENTS PER INSTRUCTION	E.G. Z.J. R.K. E.G.	R.K. R.K. R.K. R.K.	Z.J. Z.J. Z.J. Z.J.	R.K. R.K. R.K. R.K.	PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC03 - SHEET 2										
							PROJECT No. 239590(1)						DISCIPLINE - CENG	NUMBER - 210	REV. D		
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SUPERSEDED

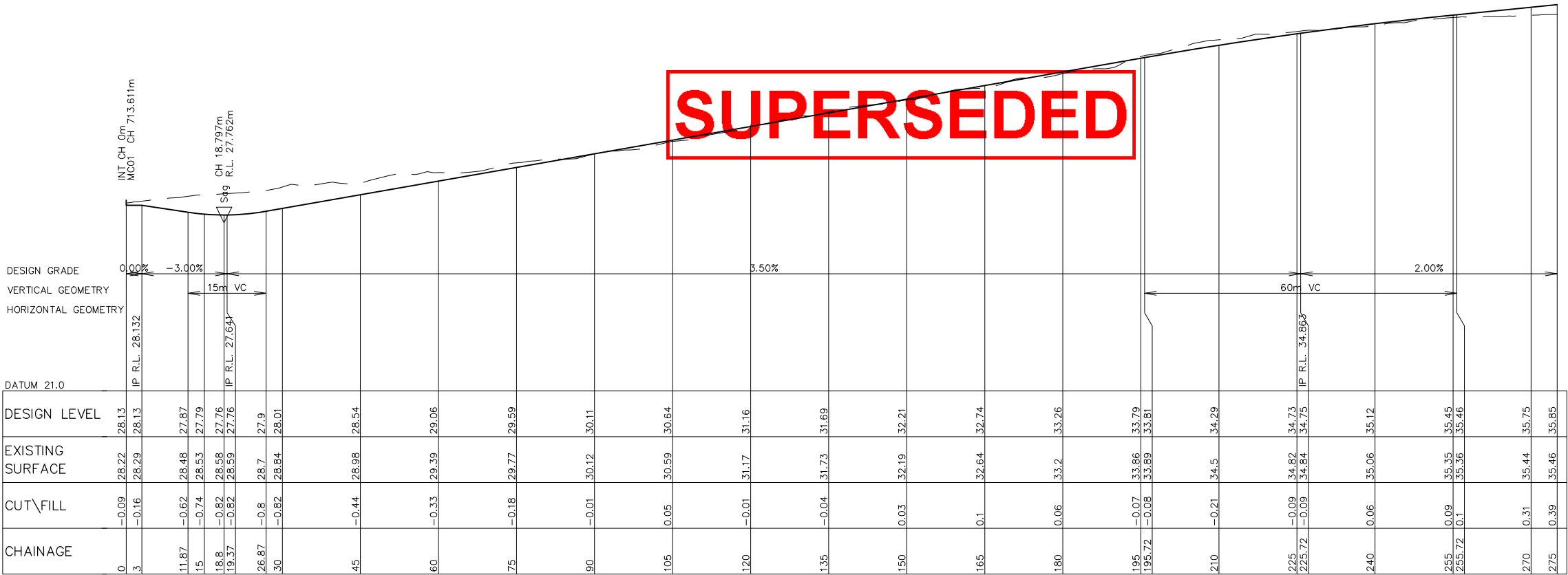
PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT	PROPERTY DESCRIPTION		PROJECT					
A	B	C	D	E.G.	R.K.	Z.J.	R.K.						BLACK HILL CONCEPT PLANS					
03.08.2018	10.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	<div>VERT  A1 / A3 1:100 / 1:200</div> <div>HORIZ  A1 / A3 1:500 / 1:1000</div>				BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		PLAN TITLE					
14.08.2018	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					ROAD LONGITUDINAL SECTION: ROAD MC03 - SHEET 3							
D		AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.	DESIGN FILE N:\239590\Design\12D\			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.	
												ADW Johnson	A.H.D.	239590(1)	-	CENG	-	211



HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



PRELIMINARY ISSUE

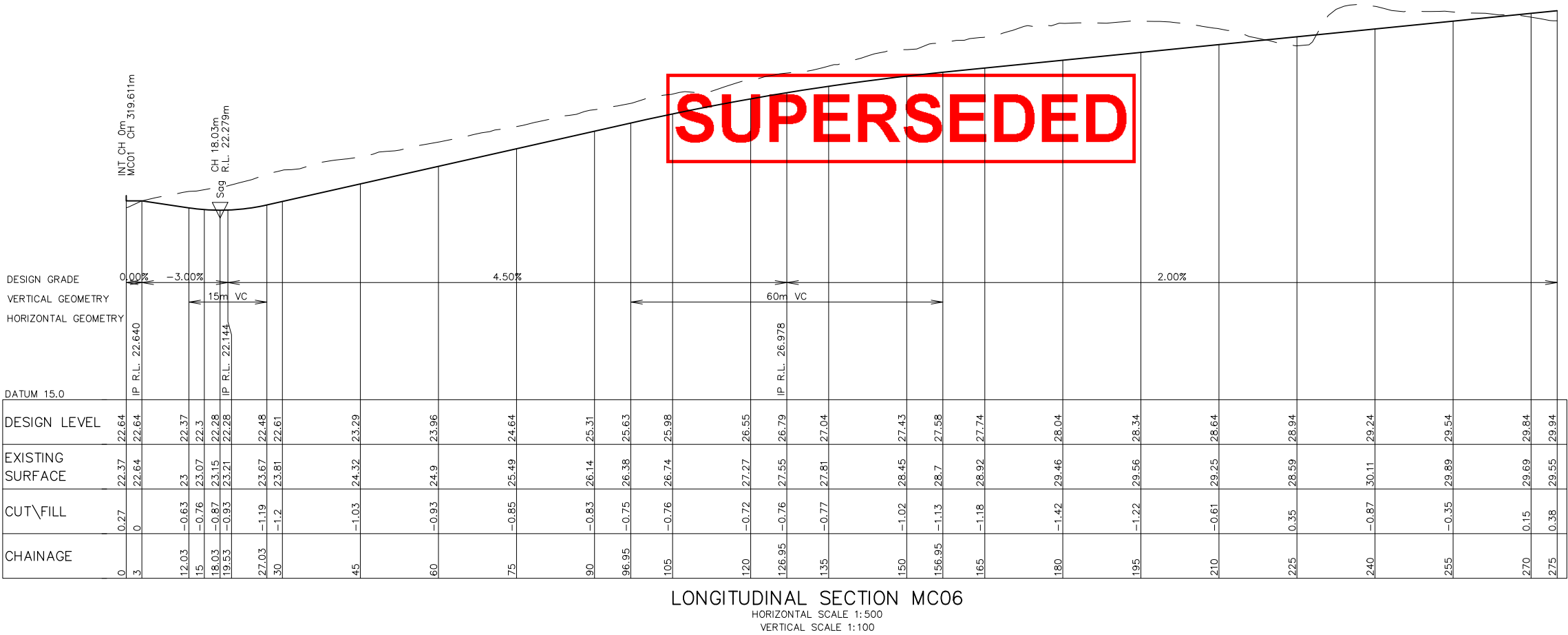


SUPERSEDED

LONGITUDINAL SECTION MC05
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100




PRELIMINARY ISSUE

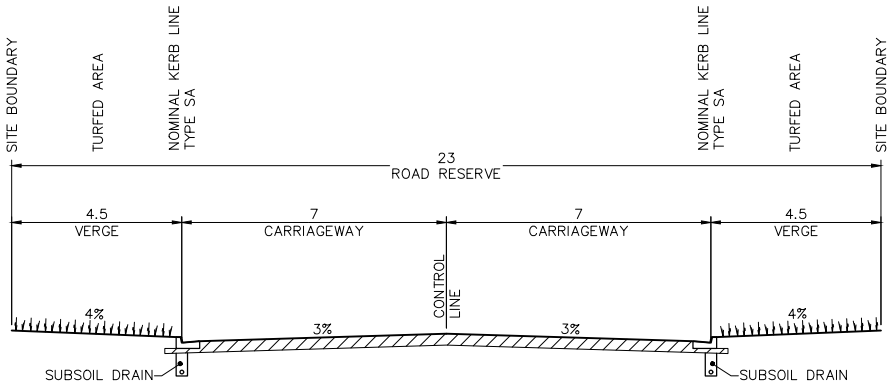
REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT	PROPERTY DESCRIPTION	PROJECT					
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	 		BROADEN MANAGEMENT PTY LTD	BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION	BLACK HILL CONCEPT PLANS					
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					PLAN TITLE					
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					ROAD LONGITUDINAL SECTION: ROAD MC05					
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 213	REV. D



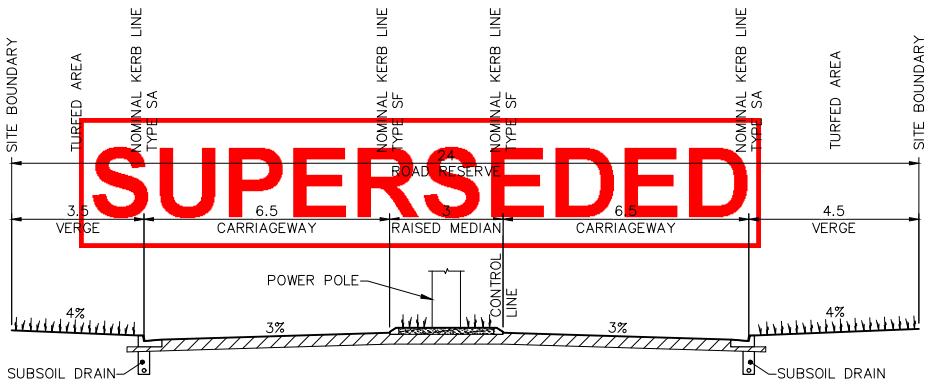
SUPERSEDED

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		<p>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</p>	<p>BROADEN MANAGEMENT PTY LTD</p>	CLIENT		PROPERTY DESCRIPTION		PROJECT					
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.	<p>BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION</p>						<p>BLACK HILL CONCEPT PLANS</p>							
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.														
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.														
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.	<p>VERT  A1 / A3 1:100 / 1:200</p> <p>HORIZ  A1 / A3 1:500 / 1:1000</p>				PLAN TITLE									
									ROAD LONGITUDINAL SECTION: ROAD MC06											
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE		SURVEYED ADW Johnson		DATUM A.H.D.		PROJECT No. 239590(1)		DISCIPLINE - CENG		NUMBER - 214		REV. D	

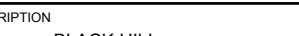



TYPICAL CROSS SECTION ROAD MC01,
MC03, MC04, MC05, MC06
SCALE 1:100 NATURAL



TYPICAL CROSS SECTION ROAD MC01
SCALE 1:100 NATURAL

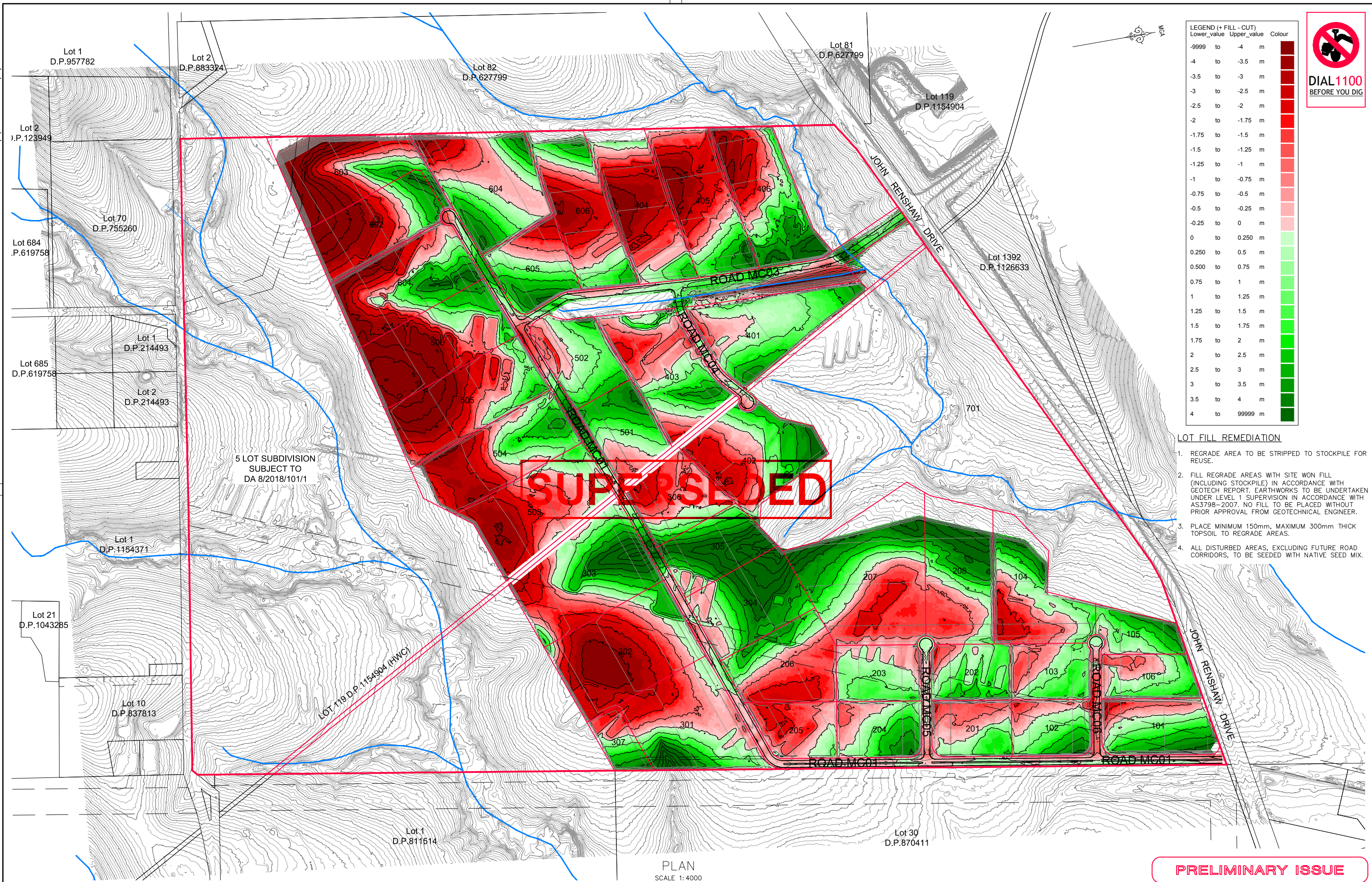
PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES	 <div>Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398</div>	CLIENT	PROPERTY DESCRIPTION	PROJECT				
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.			BROADEN MANAGEMENT PTY LTD	BLACK HILL INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION	BLACK HILL CONCEPT PLANS				
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					PLAN TITLE				
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.					TYPICAL CROSS SECTIONS				
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.									
DESIGN FILE N:\239590\Design\12D\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE			SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 221	REV. D

239590(1)-CENG-501(D)

100mm AT FULL SIZE

100mm AT FULL SIZE



LEGEND (+ FILL - CUT)		
Lower_value	Upper_value	Colour
-9999	to -4	m
-4	to -3.5	m
-3.5	to -3	m
-3	to -2.5	m
-2.5	to -2	m
-2	to -1.75	m
-1.75	to -1.5	m
-1.5	to -1.25	m
-1.25	to -1	m
-1	to -0.75	m
-0.75	to -0.5	m
-0.5	to -0.25	m
-0.25	to 0	m
0	to 0.250	m
0.250	to 0.5	m
0.500	to 0.75	m
0.75	to 1	m
1	to 1.25	m
1.25	to 1.5	m
1.5	to 1.75	m
1.75	to 2	m
2	to 2.5	m
2.5	to 3	m
3	to 3.5	m
3.5	to 4	m
4	to 9999	m



LOT FILL REMEDIATION

1. REGRADE AREA TO BE STRIPPED TO STOCKPILE FOR REUSE.
2. FILL REGRADE AREAS WITH SITE WON FILL (INCLUDING STOCKPILE) IN ACCORDANCE WITH GEOTECH REPORT. EARTHWORKS TO BE UNDERTAKEN UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007. NO FILL TO BE PLACED WITHOUT PRIOR APPROVAL FROM GEOTECHNICAL ENGINEER.
3. PLACE MINIMUM 150mm, MAXIMUM 300mm THICK TOPSOIL TO REGRADE AREAS.
4. ALL DISTURBED AREAS, EXCLUDING FUTURE ROAD CORRIDORS, TO BE SEEDD WITH NATIVE SEED MIX.

SUPERSEDED

PLAN
SCALE 1:4000

PRELIMINARY ISSUE

REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIGN	VERIFY	SCALES		Hunter Office Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.au www.adwjohnson.com.au ABN 62 129 445 398	CLIENT BROADEN MANAGEMENT PTY LTD	PROPERTY DESCRIPTION		PROJECT BLACK HILL CONCEPT PLANS			
A	03.08.2018	INITIAL ISSUE	E.G.	R.K.	Z.J.	R.K.					INDUSTRIAL SUBDIVISION LOT 1131 D.P.1057179		PLAN TITLE			
B	10.08.2018	AMENDMENTS PER INSTRUCTION	Z.J.	R.K.	Z.J.	R.K.					JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION		CUT/FILL PLAN			
C	14.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
D	17.08.2018	AMENDMENTS PER INSTRUCTION	E.G.	R.K.	Z.J.	R.K.										
DESIGN FILE N:\239590\Design\120\							ALL DIMENSIONS ARE IN METRES. DO NOT SCALE				SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590(1)	DISCIPLINE - CENG	NUMBER - 501	REV. D