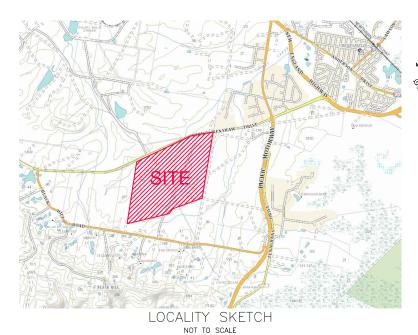
BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED RESUBDIVISION OF LOT 1 DP 1260203 JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

GENERAL NOTES:

- 1. ALL DIMENSIONS OF EASEMENTS AND LOTS ARE SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION MANAGEMENT PLAN, AND COUNCIL'S ENGINEERING REQUIREMENTS FOR DEVELOPMENTS.
- THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE CONFIRMED ON SITE AFTER PEGGING OF ROAD LOCATION IN CONSULTATION WITH COUNCIL STAFF PRIOR TO THEIR INSTALLATION. EROSION & SEDIMENT CONTROL DEVICES ARE TO BE INSTALLED PRIOR TO CONSTRUCTION COMMENCING, AND MAINTAINED DURING THE CONTRACT PERIOD UNTIL 60% VEGETATIVE COVER ACHIEVED.
- ALL CONCRETE STORMWATER DRAINAGE PIPES ARE TO BE RUBBER RING JOINTED REINFORCED CONCRETE PIPES (R.C.P.) OR APPROVED EQUIVALENT
- ALL INTERALLOTMENT DRAINAGE TO BE SEWER GRADE uPVC (UNLESS OTHERWISE SHOWN) OR AN APPROVED EQUIVALENT. THE MINIMUM SLOPE OF INTERALLOTMENT DRAINAGE LINES SHALL BE 1%. THE INTERALLOTMENT DRAINAGE UNLESS SHOWN OTHERWISE, SHALL BE A MINIMUM OF 0.75m FROM THE BOUNDARY AND LOCATED WITHIN EASEMENT AS SHOWN.
- ALL EXISTING UNDERGROUND SERVICES MUST BE LOCATED AND EXPOSED PRIOR TO EARTHWORKS COMMENCING AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM BOTH POSITION & LEVEL OF THESE UTILITIES IN CONJUNCTION WITH THE APPROPRIATE AUTHORITY
- SUBSOIL DRAINS ARE TO BE PROVIDED AS LOCATED ON PLANS AND TO COUNCIL INSPECTOR'S SATISFACTION.
- PAVEMENT THICKNESS AND ASSOCIATED EARTHWORKS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT WITHIN ROADWAYS BY CARDNO GEOTECH SOLUTIONS.
- EARTHWORKS SHOULD BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS OUTLINED IN AS3798-2007 'GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. LEVEL 1 SUPERVISION REQUIRED FOR ALL LOT FILL AND FILL GREATER THAN 2M. FOR FILL LESS THAN 2M, LEVEL 2 SUPERVISION IS APPROPRIATE. FILL IS TO BE PLACED IN HORIZONTAL LAYERS WITH COMPACTION OF EACH LAYER TO A MINIMUM DRY DENSITY
- THE SOURCE OF ROCK FOR EMBANKMENT FACING, RETAINING WALLS, CATCH DRAINS, AND LINED SPILLWAYS SHOULD BE APPROVED BY CARDNO TO ENSURE THAT THE ROCK IS SUFFICIENTLY DURABLE FOR THE APPLICATION
- WORKING HOURS ON SITE SHALL BE IN ACCORDANCE WITH EPA REQUIREMENTS AND CCC CONDITIONS OF CONSENT.
- 12. VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
- 13. MAINTENANCE ON ALL SEEDED AREAS SHALL BE OVER A 3 MONTH PERIOD.
- 14. TRAFFIC CONTROL MEASURES TO BE IN ACCORDANCE WITH AS 1742.
- 15. ALL LEVELS MUST BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERINTENDENT
- THE CONTRACTOR IS TO ENSURE THAT ALL UNDESIRABLE MATERIAL (INCL. VEGETATIVE MATERIAL) IS REMOVED FROM THE SUBGRADE LEVEL OF THE
- THE CONTRACTOR IS TO ENSURE THAT ALL THE NECESSARY SERVICE PIPE CONDUITS AND FITTINGS ARE IN PLACE PRIOR TO THE KERB BEING PLACED.
- 18 ALL INTERALLOTMENT DRAINAGE PITS TO BE CONSTRUCTED IN ACCORDANCE WITH CESSNOCK CITY COLINCILS STANDARD DRAWINGS.
- ALL KERB INLET PITS TO BE CONSTRUCTED IN ACCORDANCE WITH CESSNOCK CITY COUNCILS STANDARD DRAWINGS.
- ANY STORMWATER PITS OVER 1200mm DEEP REQUIRE INSTALLATION OF STEP IRONS.
- 21. ALL PITS TO BE BENCHED AND STREAMLINED.
- ALL HEADWALLS SHALL BE CAST INSITU AND CONSTRUCTED IN ACCORDANCE WITH RTA STD. DRAWING MD.R11.A02.A.1 (MIN. REQUIREMENT) AND CESSNOCK CITY COUNCIL'S STANDARD DRAWING SD12. UNLESS OTHERWISE STATED.
- MAKE SMOOTH JOIN WITH EXISTING WORKS.
- 24. CLEARING AND GRUBBING NO TREES ARE TO BE REMOVED WITHOUT PERMISSION UNLESS OTHERWISE IDENTIFIED OUTSIDE OF LIMIT OF WORKS.
- SURVEY MARKS ARE TO BE CAREFULLY PRESERVED BY THE CONTRACTOR. DAMAGED DESTROYED OR LOST MARKS WILL BE REPLACED BY THE SUPERVISING SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 26. ALL SIGNPOSTING & LINEMARKING TO BE IN ACCORDANCE WITH AS 1742.2 1994 PART 2.

- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE:
 SOIL AND WATER MANAGEMENT PLAN.
 CONSTRUCTION MANAGEMENT PLAN.
 CESSNOCK CITY COUNCIL CONDITIONS OF DEVELOPMENT CONSENT.
 TREES AND OTHER VEGETATION MAY ONLY BE REMOVED FROM THE SITE OF ROAD, DRAINAGE, BUSHFIRE MITIGATION AND REGRADING WORKS. AN APPLICATION SHALL BE MADE TO COUNCIL FOR THE REMOVAL OF ANY OTHER TREES.
- 28. TREES AND SHRUBS WHICH ARE FELLED SHALL BE SALVAGED FOR RE-USE, EITHER IN LOG FORM, OR AS A WOODCHIP MULCH FOR EROSION CONTROL AND/OR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS ROOTS AND STUMPS SHALL BE DISPOSED OF IN AN APPROVED MANNER
- CONTRACTOR IS TO UNDERTAKE CCTV INSPECTION OF ALL CONSTRUCTED STORMWATER INFRASTRUCTURE, PREPARE FINDINGS AND REPORT TO COUNCIL
- SUBSOIL FLUSH POINTS SHOULD BE PROVIDED AT 80m INTERVALS IN ACCORDANCE WITH SECTION 6.8.2 OF COUNCIL'S 'ENGINEERING REQUIREMENTS FOR

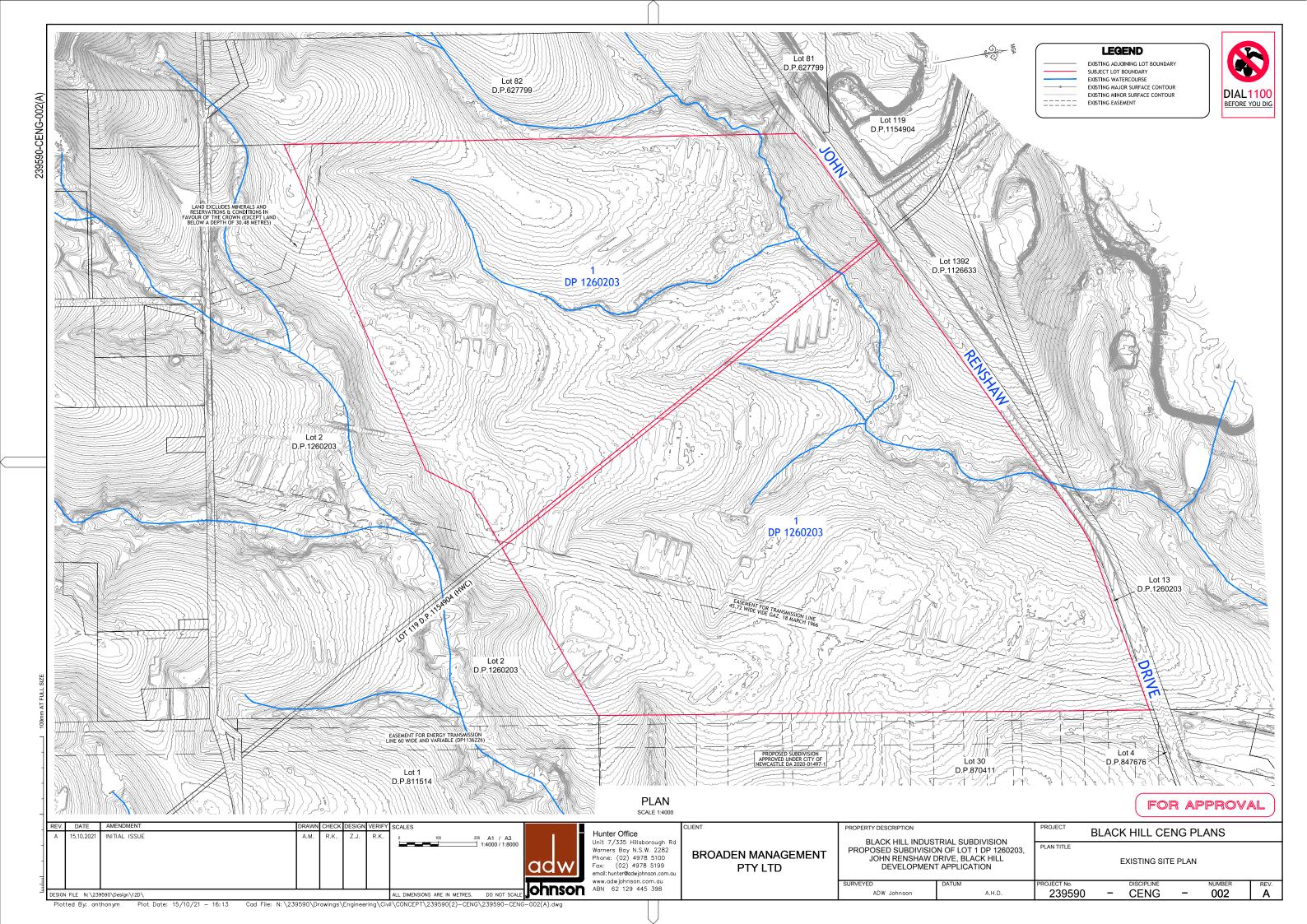


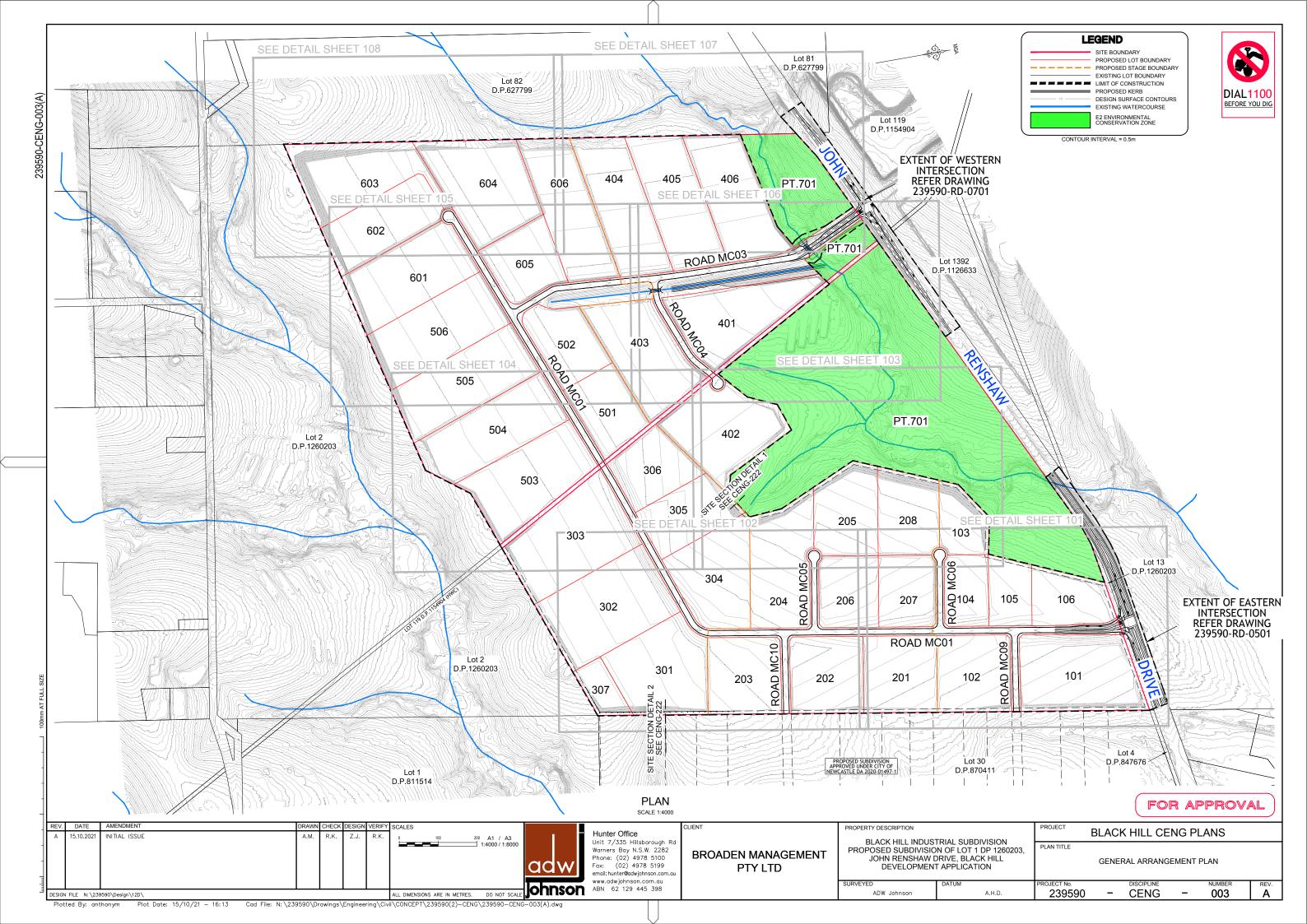
239590 CENG PLANS

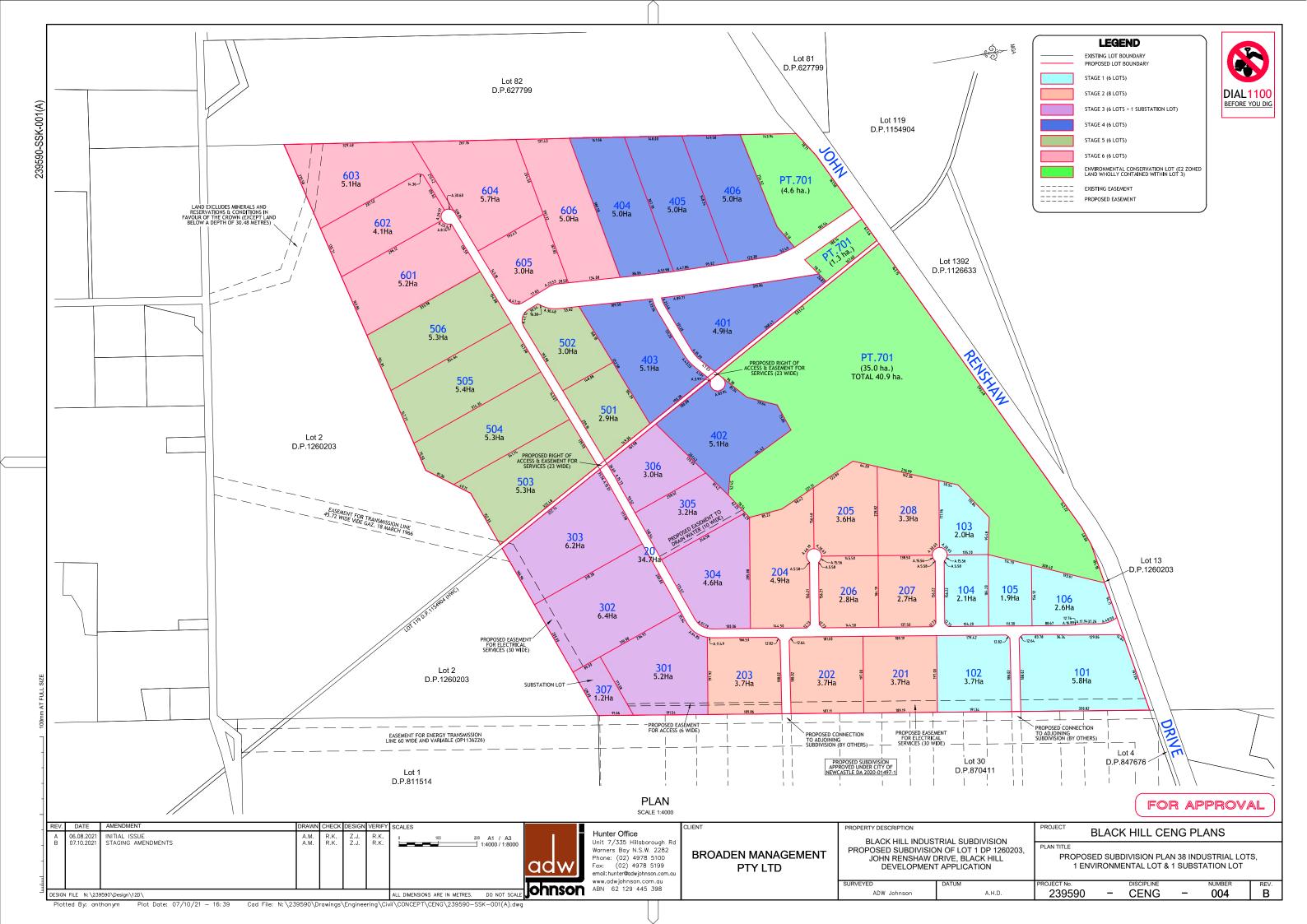
Sheet Title	Sheet Description
239590-CENG-001(A)	TITLE SHEET, DRAWING INDEX & LOCALITY PLAN
239590-CENG-002(A)	EXISTING SITE PLAN
239590-CENG-003(A)	GENERAL ARRANGEMENT PLAN
239590-CENG-005(A)	PROPOSED SUBDIVISION PLAN - 16 INDUSTRIAL LOTS, 1 ENVIRONMENTAL LOT & 1 SUBSTATION LOT
239590-CENG-101(A)	DETAIL PLAN - SHEET 1
239590-CENG-102(A)	DETAIL PLAN - SHEET 2
239590-CENG-103(A)	DETAIL PLAN - SHEET 3
239590-CENG-104(A)	DETAIL PLAN - SHEET 4
239590-CENG-105(A)	DETAIL PLAN - SHEET 5
239590-CENG-106(A)	DETAIL PLAN - SHEET 6
239590-CENG-107(A)	DETAIL PLAN - SHEET 7
239590-CENG-108(A)	DETAIL PLAN - SHEET 8
239590-CENG-109(A)	INTERSECTION INTERFACE PLAN
239590-CENG-151(A)	CLEARING PLAN
239590-CENG-152(A)	ZONE 1 EROSION & SEDIMENT CONTROL PLAN
239590-CENG-153(A)	ZONE 2 EROSION & SEDIMENT CONTROL PLAN
239590-CENG-154(A)	ZONE 3 EROSION & SEDIMENT CONTROL PLAN
239590-CENG-155(A)	ZONE 4 EROSION & SEDIMENT CONTROL PLAN
239590-CENG-156(A)	PLAN OF AREAS FOR REMEDIATION
239590-CENG-201(A)	ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 1
239590-CENG-202(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 2
239590-CENG-203(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 3
239590-CENG-204(A)	ROAD LONGITUDINAL SECTION: ROAD MC01 - SHEET 4
239590-CENG-205(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 5
239590-CENG-206(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 6
239590-CENG-207(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 7
239590-CENG-208(A)	ROAD LONGITUDINAL SECTION: ROAD MCO1 - SHEET 8
239590-CENG-209(A)	ROAD LONGITUDINAL SECTION: ROAD MCO3 - SHEET 1
239590-CENG-210(A)	ROAD LONGITUDINAL SECTION: ROAD MCO3 - SHEET 2
239590-CENG-211(A)	ROAD LONGITUDINAL SECTION: ROAD MCO3 - SHEET 3
239590-CENG-212(A)	ROAD LONGITUDINAL SECTION: ROAD MCO4
239590-CENG-213(A)	ROAD LONGITUDINAL SECTION: ROAD MC05
239590-CENG-214(A)	ROAD LONGITUDINAL SECTION: ROAD MC06
239590-CENG-215(A)	ROAD LONGITUDINAL SECTION: ROAD MC09
239590-CENG-216(A)	ROAD LONGITUDINAL SECTION: ROAD MC10
239590-CENG-221(A)	TYPICAL CROSS SECTION
239590-CENG-222(A)	SITE SECTIONS
239590-CENG-501(A)	CUT/FILL PLAN

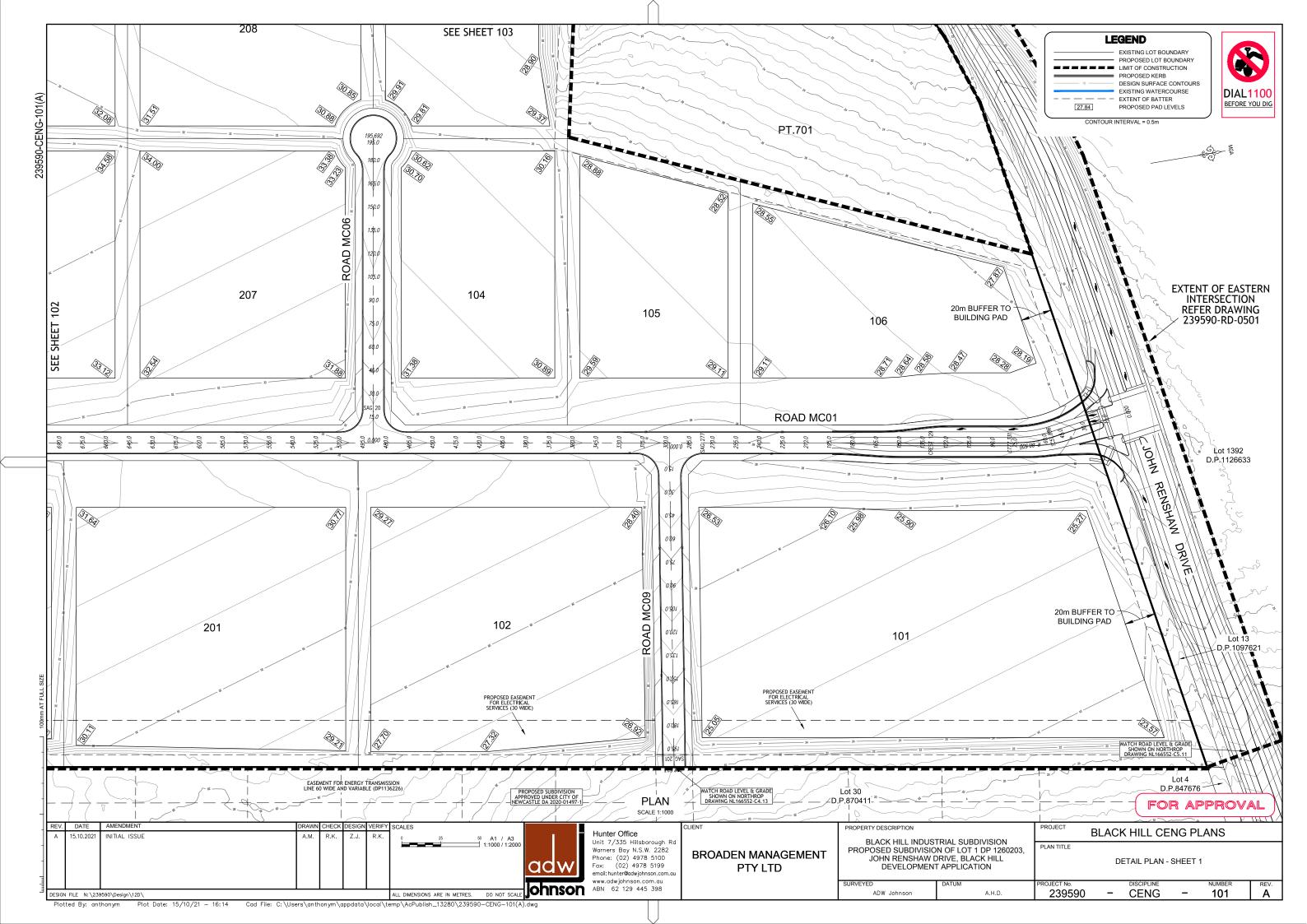
FOR APPROVAL

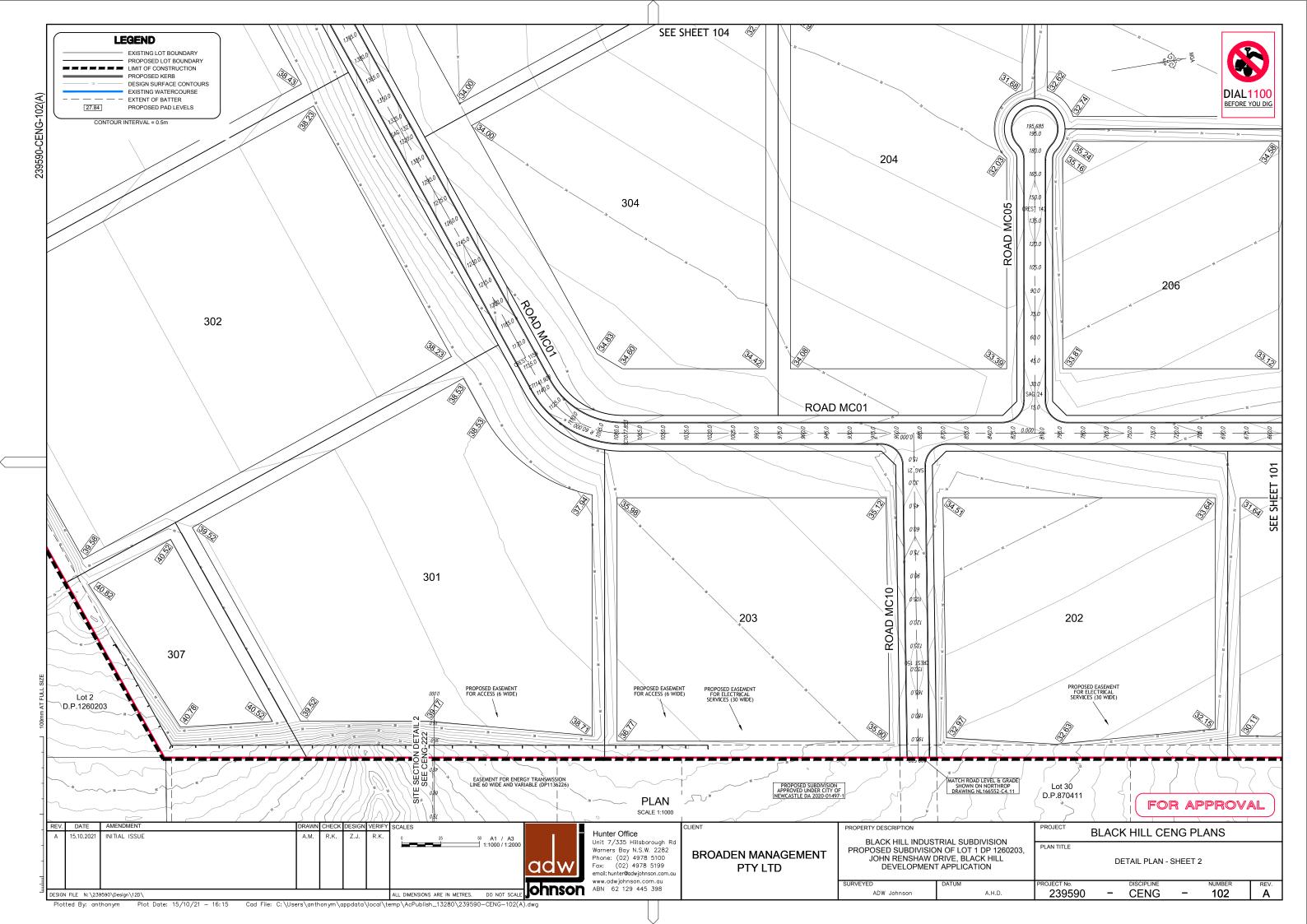
REV. DATE AMENDMENT RAWN CHECK DESIGN VERIFY SCALES PROPERTY DESCRIPTION PROJECT **BLACK HILL CENG PLANS Hunter Office** 15.10.2021 INITIAL ISSUE BLACK HILL INDUSTRIAL SUBDIVISION Unit 7/335 Hillsborough Ro PLAN TITLE Warners Bay N.S.W. 2282 PROPOSED SUBDIVISION OF LOT 1 DP 1260203, **BROADEN MANAGEMENT** TITLE SHEET, DRAWING INDEX & LOCALITY Phone: (02) 4978 5100 JOHN RENSHAW DRIVE, BLACK HILL (02) 4978 5199 DEVELOPMENT APPLICATION adw PTY LTD email: hunter@adwiohnson.com www.adwjohnson.com.au ohnson ABN 62 129 445 398 ADW Johnson 239590 CENG 001 ALL DIMENSIONS ARE IN METRES. DO NOT SCAL DESIGN FILE N:\239590\Design\12D\

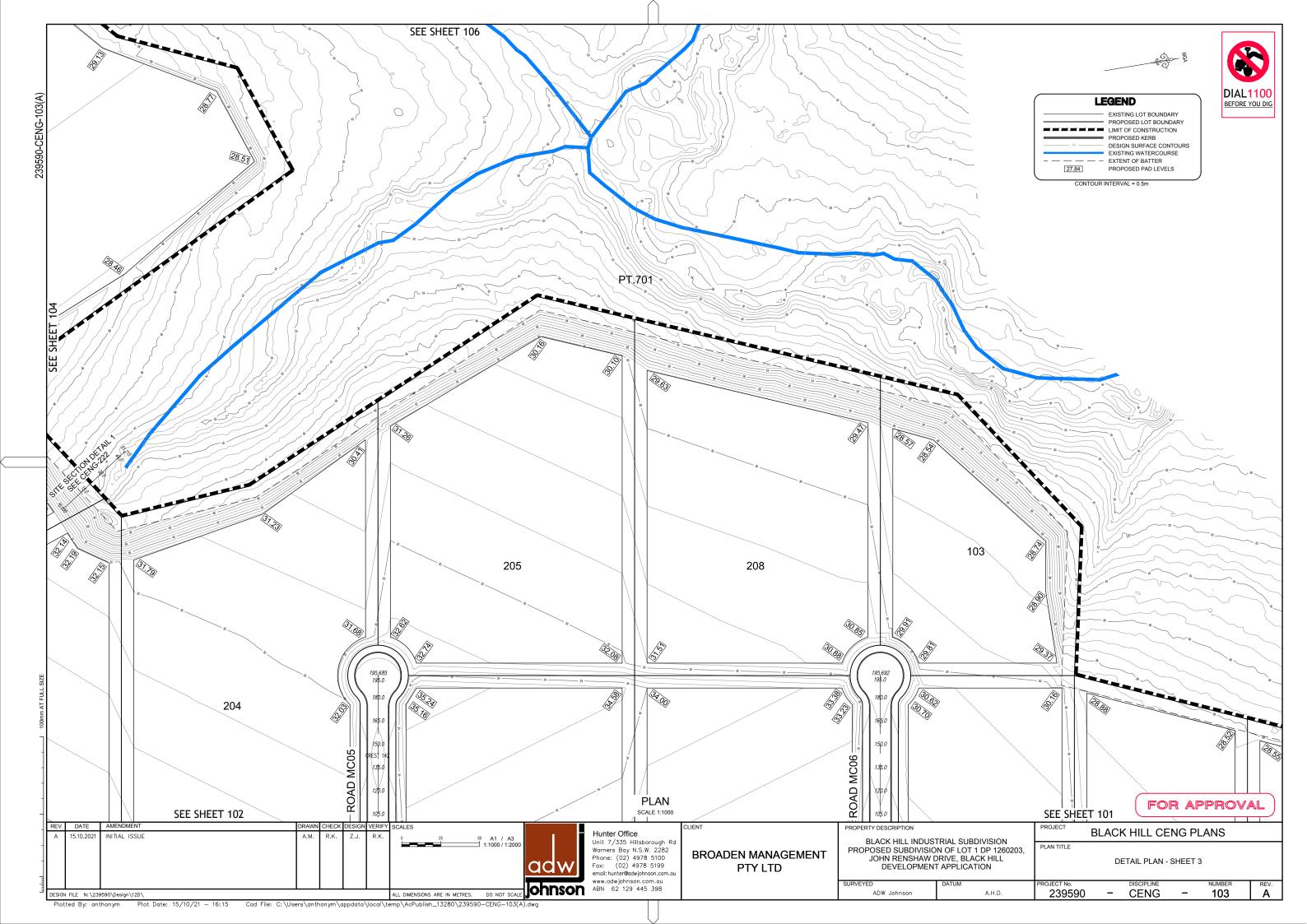


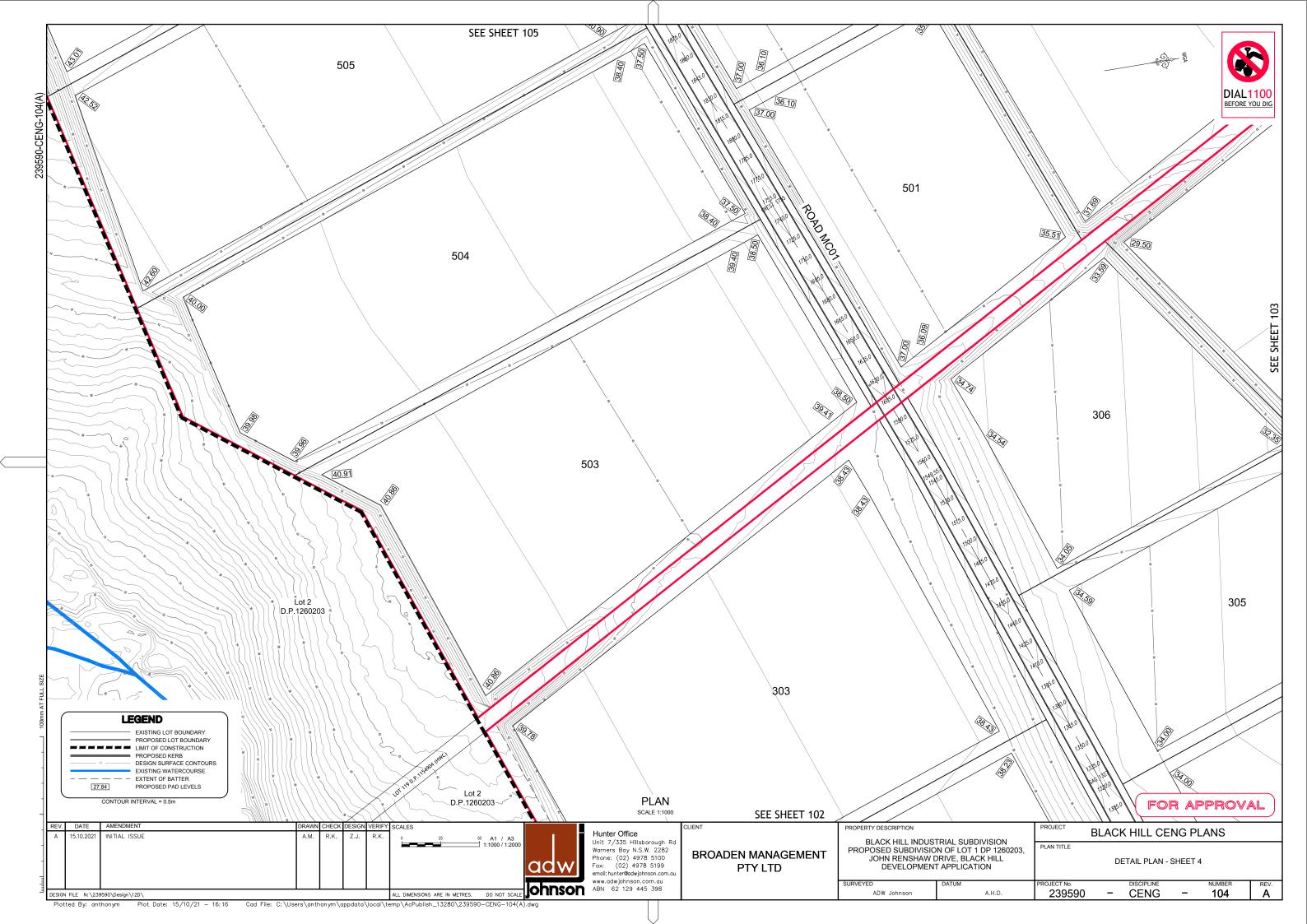


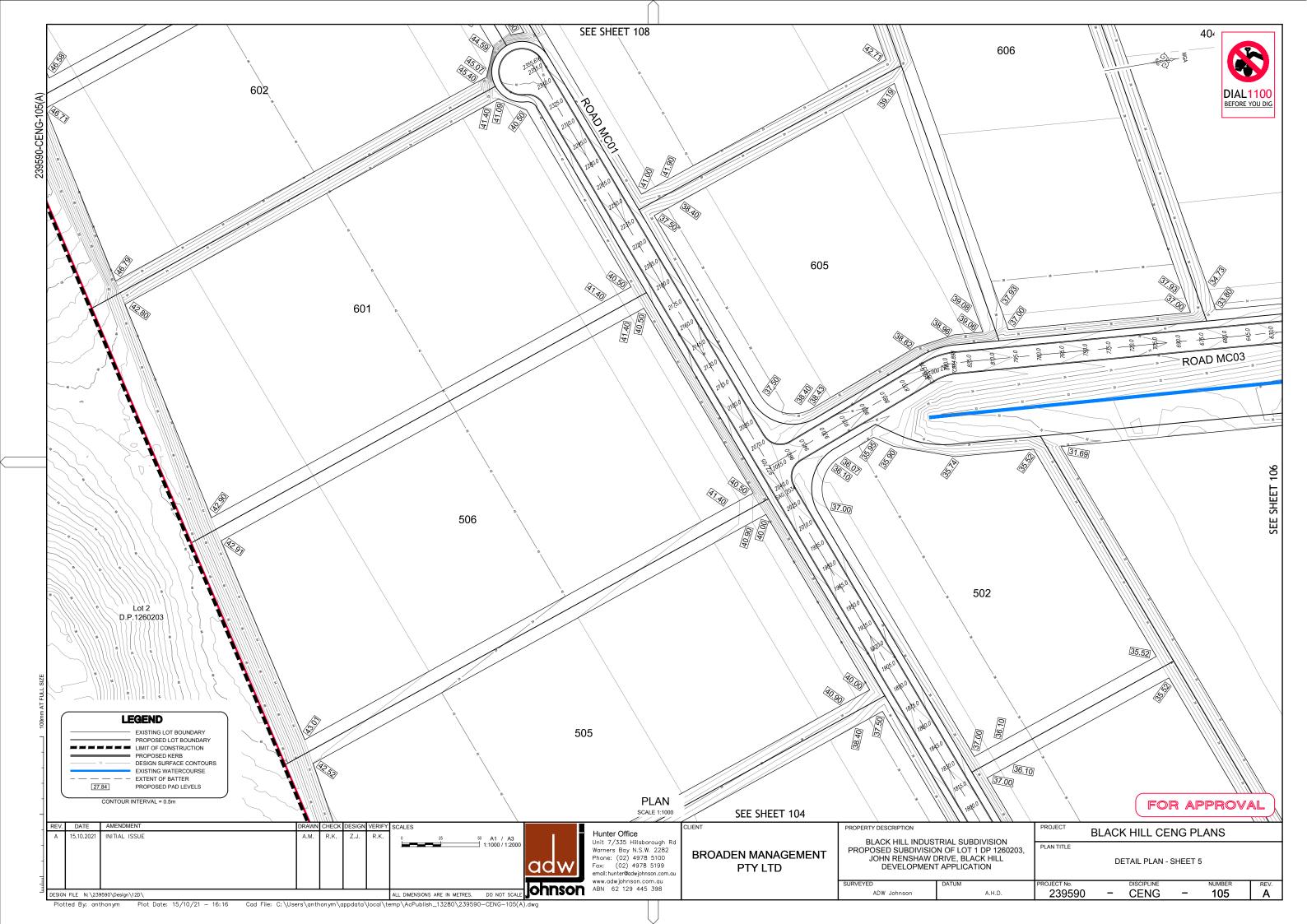


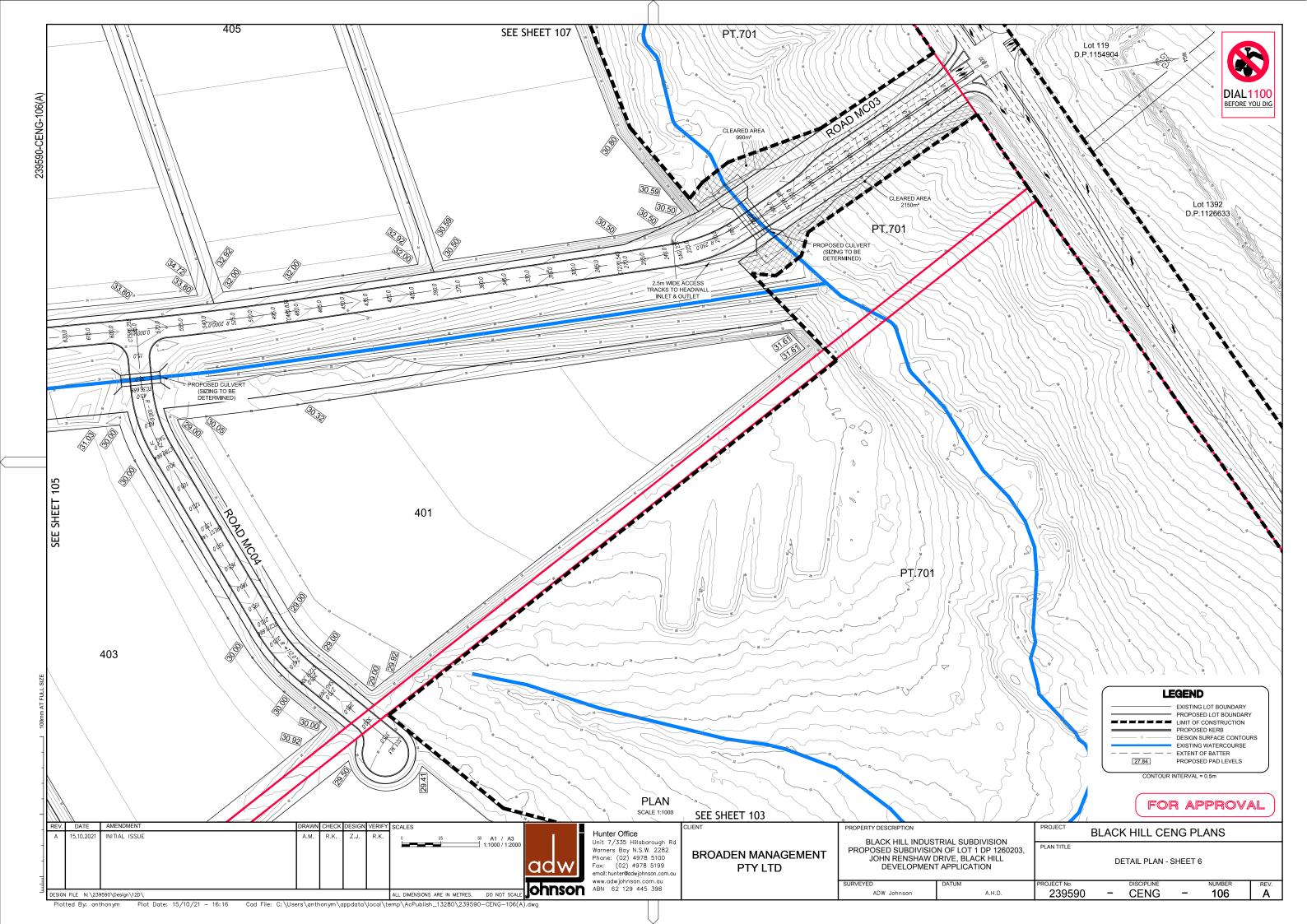


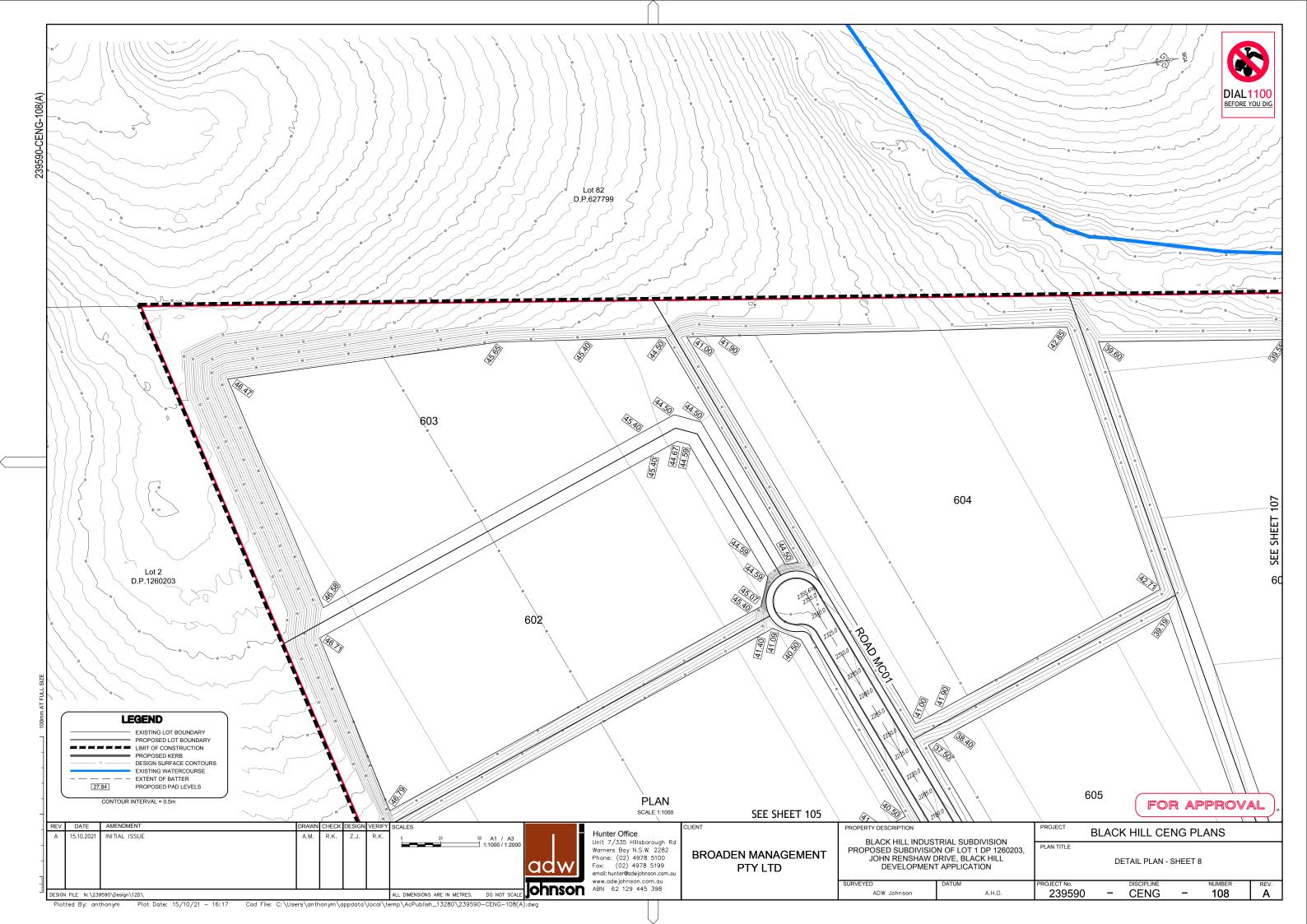


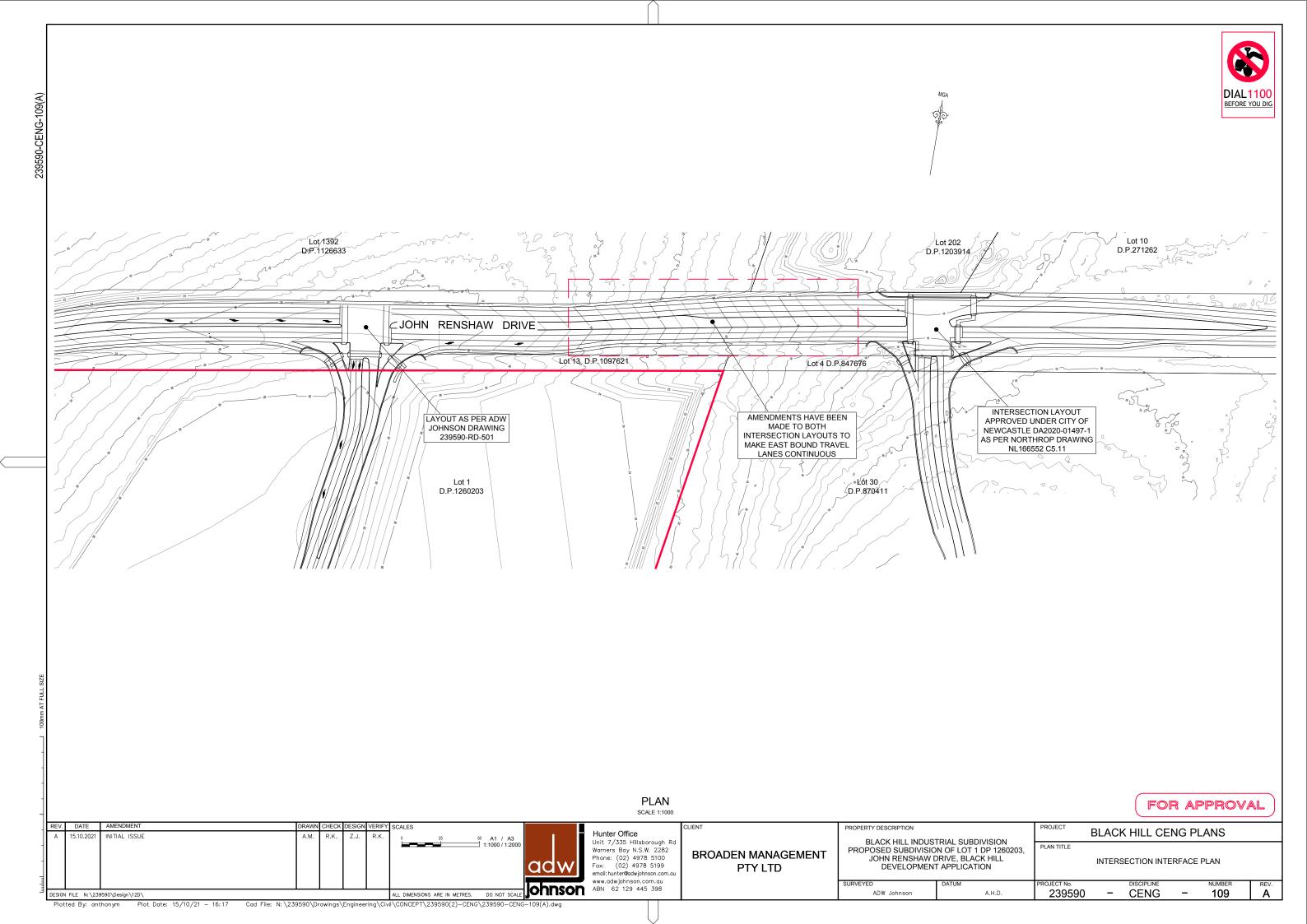


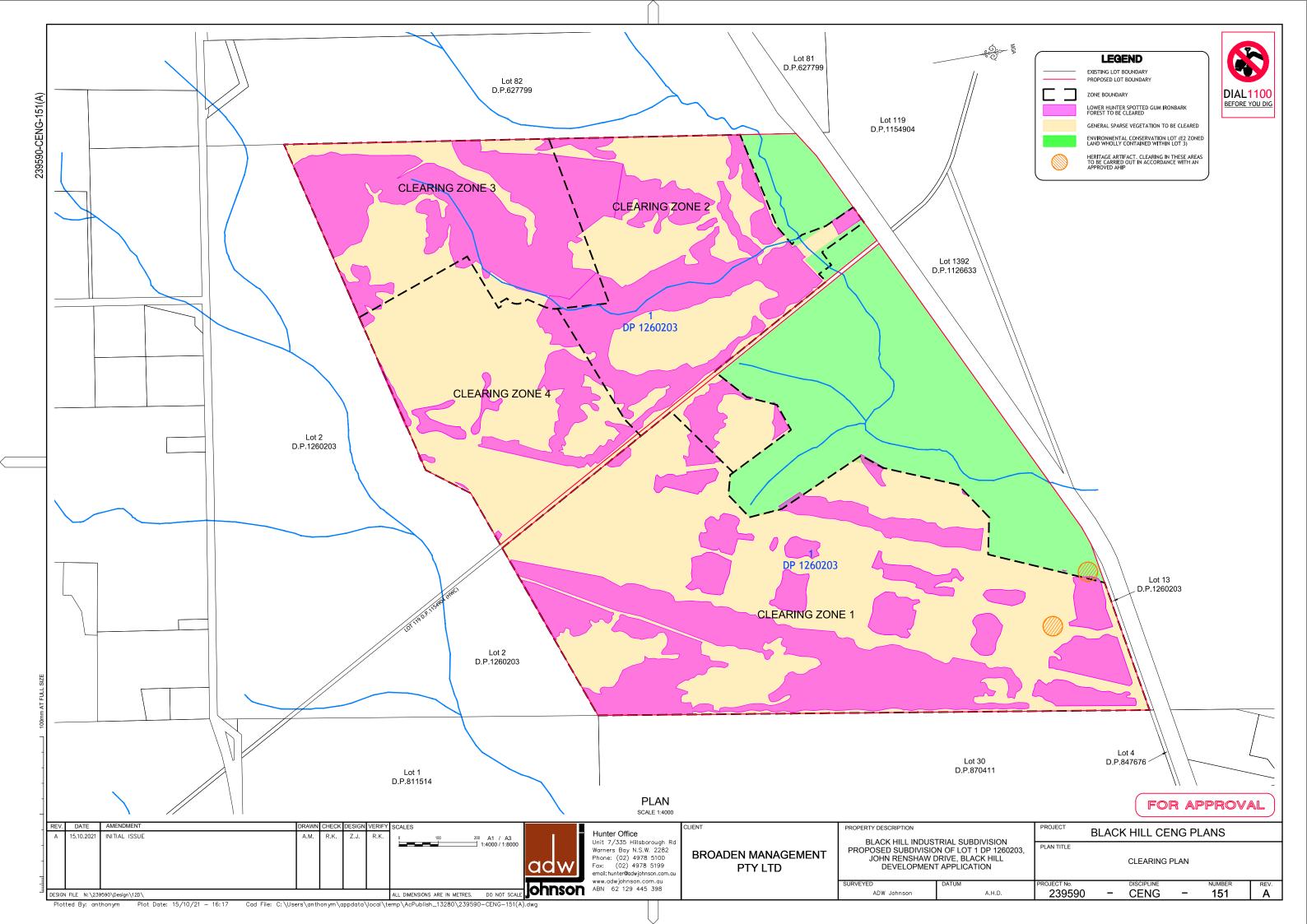


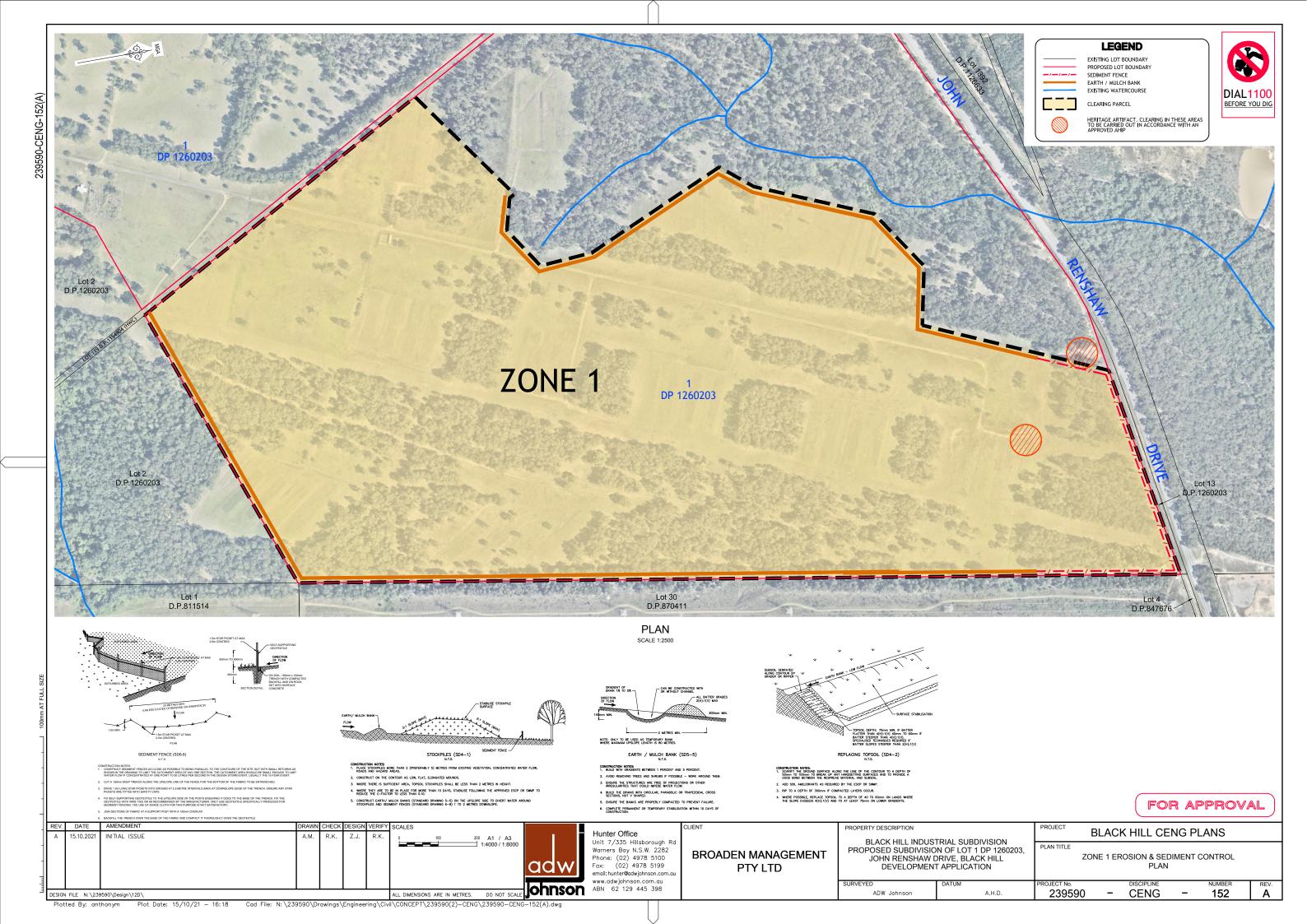


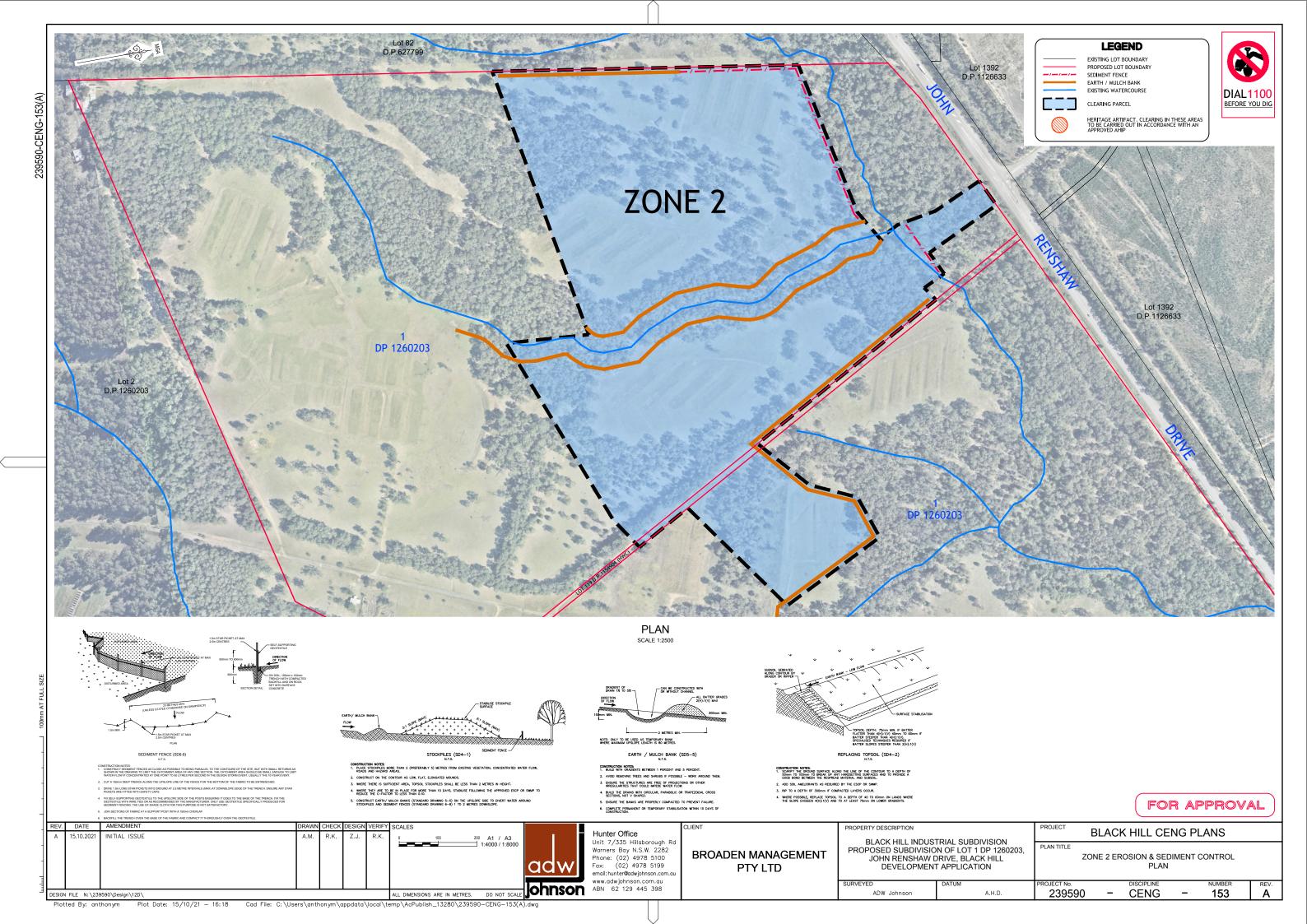


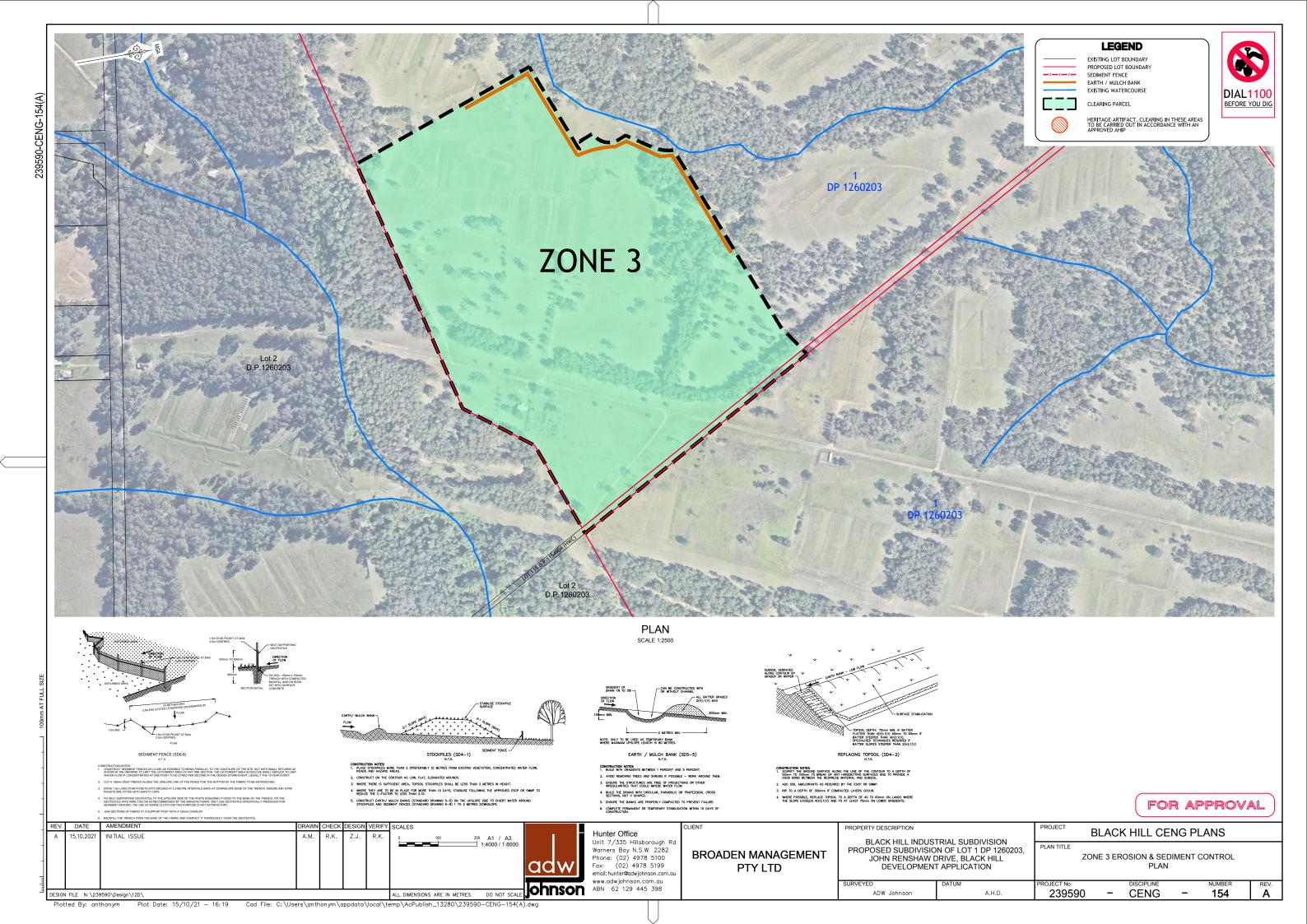


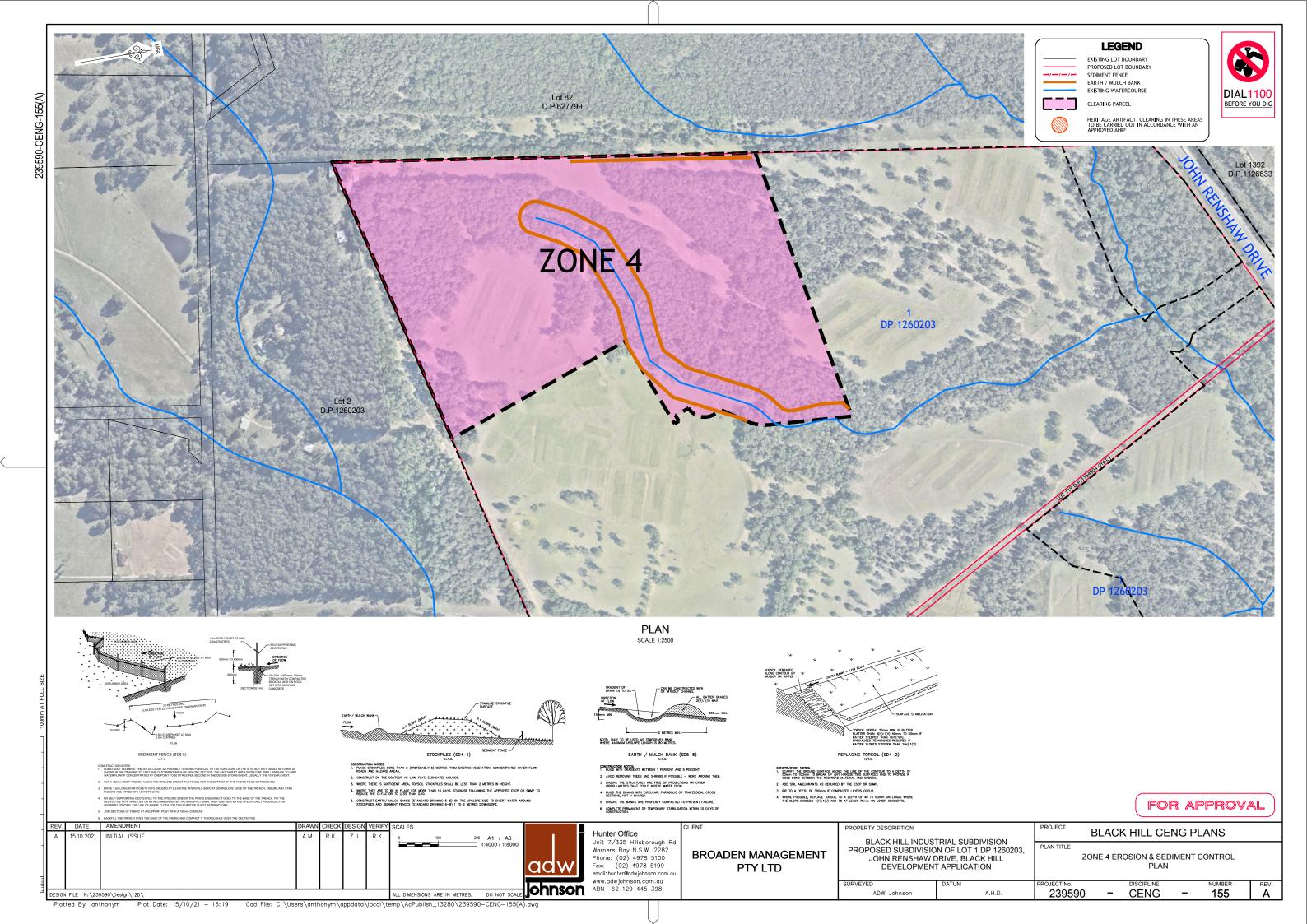


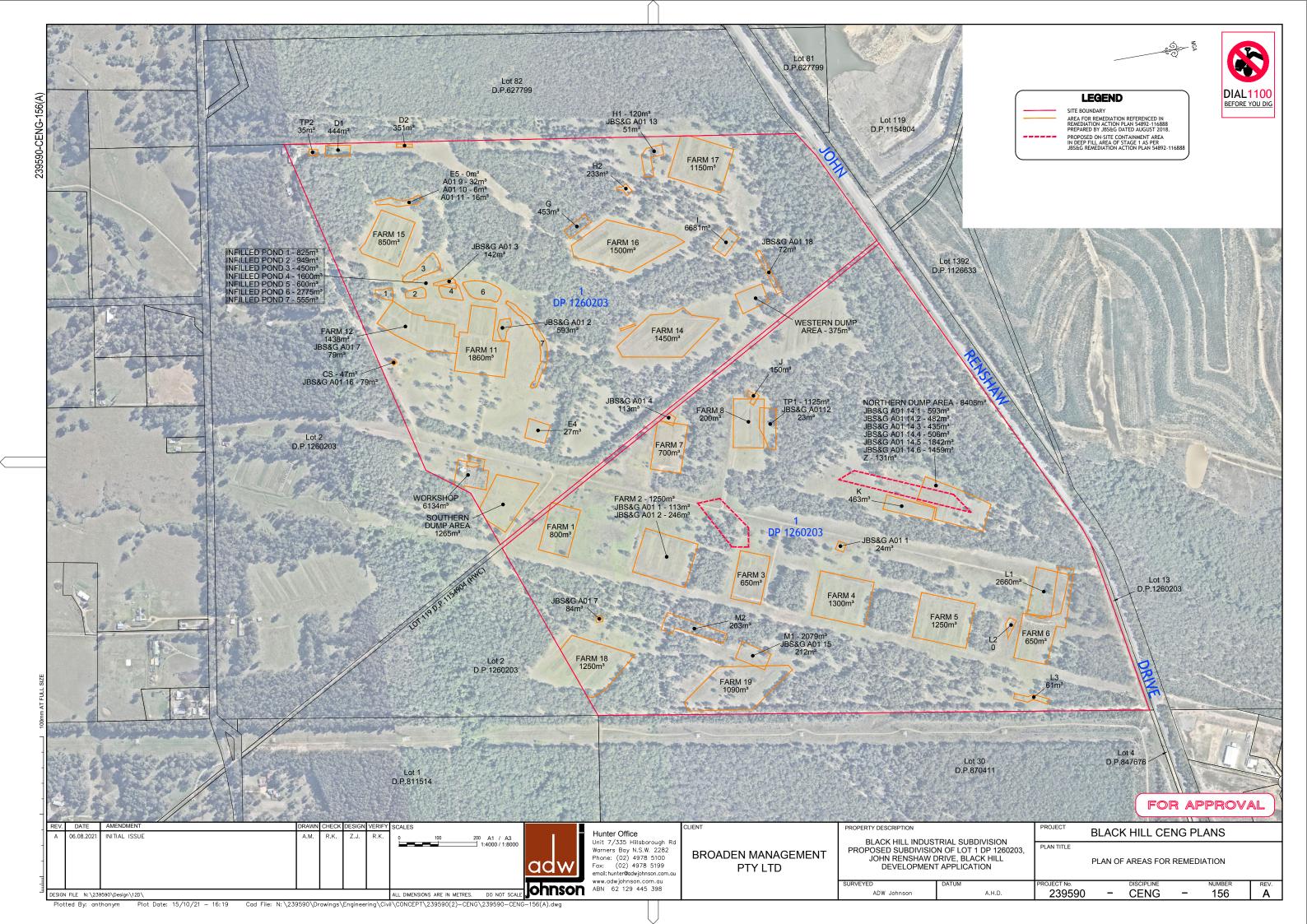












. CH 129.429m . R.L. 29.118m 299.486m CH 0m SAWCUT MIN 300mm INTO EXISTING PAVEMENT TO MAKE SMOOTH CONNECTION 3.00% -1.00% 1.00% DESIGN GRADE CONTINUED 30m VC VERTICAL GEOMETRY HORIZONTAL GEOMETRY R 80.5m DATUM 15.0 DESIGN LEVEL EXISTING SURFACE CUT\FILL CHAINAGE LONGITUDINAL SECTION MC01 HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100 FOR APPROVAL REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES PROJECT PROPERTY DESCRIPTION Hunter Office Unit 7/335 Hillsborough Rd BLACK HILL CENG PLANS INITIAL ISSUE 15.10.2021 BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 ROAD LONGITUDINAL SECTION: ROAD MC01 -SHEET 1 **BROADEN MANAGEMENT** adw ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

| CONCEPT 230507(2) CENTS 230507(2 PTY LTD REV.

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

239590

CENG

15.10.2021

INITIAL ISSUE

INT CH 812.801 MC06 CH 0m SHEET SHEET DESIGN GRADE VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 21.0 DESIGN LEVEL EXISTING SURFACE CUT\FILL CHAINAGE

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

> > **BROADEN MANAGEMENT**

PTY LTD

ADW Johnson

Hunter Office Unit 7/335 Hillsborough Rd

Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199

adw

PROJECT PROPERTY DESCRIPTION BLACK HILL CENG PLANS BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

239590

PLAN TITLE

FOR APPROVAL

202

REV.

ROAD LONGITUDINAL SECTION: ROAD MC01 -SHEET 2

CENG

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

| CONCEPT 230507(2) CENT 230507(2) CE DESIGN FILE N:\239590\Design\12D\

NT CH 890.69m MC10 CH 0m 812.801m CH 0m 202 SHEET TINUED CONTINUED DESIGN GRADE VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 25.0 DESIGN LEVEL EXISTING SURFACE CUT\FILL CHAINAGE LONGITUDINAL SECTION MCO1

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100 FOR APPROVAL

-	REV.	DATE 15.10.2021	AMENDMENT INITIAL ISSUE		AWN C	_	DESIGN Z.J.	VERIFY R.K.	SCALES 0 2 4 A1 / A		Hunter Office	CLIENT	PROPERTY DESCRIPTION	TDIAL CURDIVICION	PROJECT	BLACK HILL CEN	IG PLANS	
-									0 10 20 A1 / HORIZ 1:500 / 1:	A3	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	BROADEN MANAGEMENT PTY LTD	BLACK HILL INDUS' PROPOSED SUBDIVISIO JOHN RENSHAW I DEVELOPMEN'	N OF LOT 1 DP 1260203, DRIVE, BLACK HILL	PLAN TITLE	ROAD LONGITU SECTION: ROAD SHEET 3		
			1							— lohnso	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No.	DISCIPLINE	NUMBER — 202	REV.
Į		FILE N:\2 ed By: a	39590\Design\12D\ nthonym Plot Date: 15/10/21 - 16:19	Cad File: N:\239590	0\Drav	wings\E	nginee		ALL DIMENSIONS ARE IN METRES. DO NOT I\CONCEPT\239590(2)-CENG\239590-				ADW Johnson	A.H.D.	239590	- CENG	- 203	A

CH 1158.871m R.L. 36.469m SHEET CONTINUED SHEET 30m VC CONTINUED 1.00% -1.25% DESIGN GRADE VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 26.0 DESIGN LEVEL EXISTING SURFACE

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

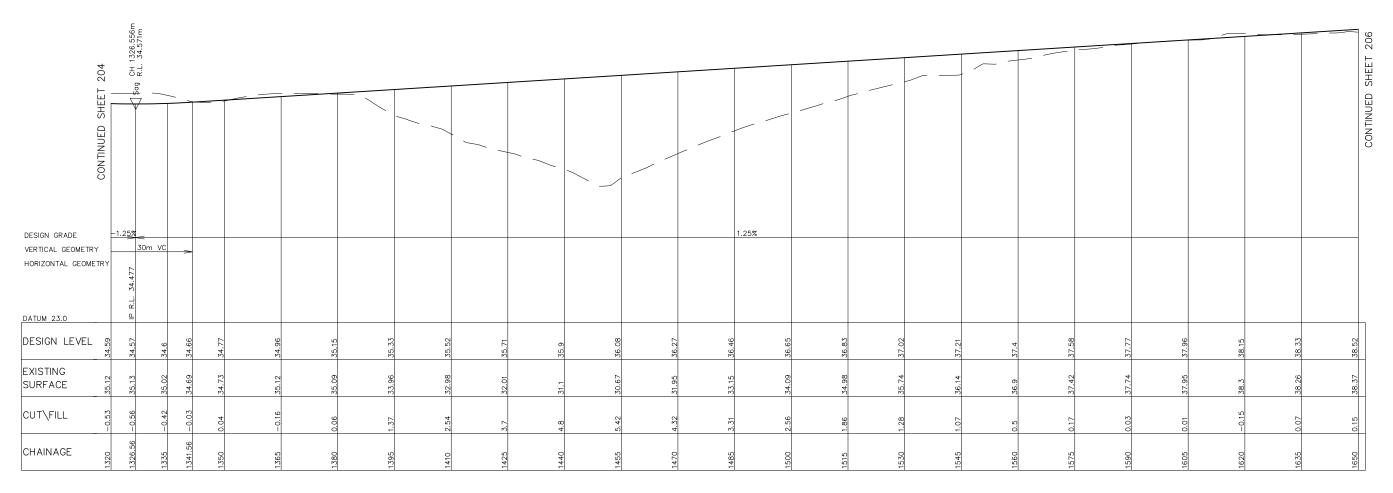
FOR APPROVAL

REV. DATE AMENDMENT DRAWN CHECK DESIGN VERIFY SCALES PROJECT PROPERTY DESCRIPTION Hunter Office Unit 7/335 Hillsborough Rd BLACK HILL CENG PLANS 15.10.2021 INITIAL ISSUE BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION PLAN TITLE ROAD LONGITUDINAL SECTION: ROAD MC01 -SHEET 4 Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 **BROADEN MANAGEMENT** adw ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

| ALL DIMENSIONS ARE IN METRES. DO NOT SCALE | DONOT SCA PTY LTD REV. ADW Johnson 239590 CENG 204 DESIGN FILE N: \239590\Design\12D\

CUT\FILL

CHAINAGE



LONGITUDINAL SECTION MC01

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100

- L	REV.	DATE	AMENDMENT	DRAWN	CHECK	DESIG	N VERI	Y SCALES			CLIENT	PROPERTY DESCRIPTION		PROJECT	BLACK HILL CENC	DI ANO	
	А	15.10.2021	INITIAL ISSUE	A.M.	R.K.	Z.J.	R.k	0 2 4 A1 / A3		Hunter Office		<u></u>	TD.41 011DD11401011		BLACK HILL CENC	5 PLANS	
					1			VERT 1:100 / 1:200		Unit 7/335 Hillsborough Rd			TRIAL SUBDIVISION	PLAN TITLE			1
					1			0 10 20 A1 / A3		Warners Bay N.S.W. 2282 Phone: (02) 4978 5100	BROADEN MANAGEMENT		ON OF LOT 1 DP 1260203, DRIVE. BLACK HILL		ROAD LONGITUD		
- 1					1			HORIZ 1:500 / 1:1000	$\alpha\alpha\omega$	Fax: (02) 4978 5199		DEVELOPMEN			SECTION: ROAD M	IC01 -	
					1				UU VV	email: hunter@adwjohnson.com.au	PTY LTD	DEVELOT MEN	TAITEIDATION		SHEET 5		
31					1					www.adwjohnson.com.au		SURVEYED	DATUM	PROJECT No.	DISCIPLINE	NUMBER	REV.
	DESIGN I	FILE N.\230	590\Design\12D\					ALL DIMENSIONS ARE IN METRES. DO NOT SCALI	Honnsor	ABN 62 129 445 398		ADW Johnson	A.H.D.	239590	- CENG	- 205	Δ
Ľ	DESIGN I	TILL IN. \255	390 (Design (12D (ALE DIMENSIONS ARE IN METRES. DO NOT SCAL					· · · · · · · -	200000	OLINO	200	
_	Plotte	ed By: ant	honym Plot Date: 15/10/21 — 16:19 Cad File: N:\239	590\D	rawings	Engine	eering\	ivil\CONCEPT\239590(2)-CENG\239590-CEN	G-205(A).dwg								

15.10.2021 INITIAL ISSUE

CH 1754.514m R.L. 39.619m 205 SHEET CONTINUED SHEET CONTINUED DESIGN GRADE 1.25% -1.00% 60m \ VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 27.0 DESIGN LEVEL EXISTING SURFACE CUT\FILL CHAINAGE

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

BROADEN MANAGEMENT

PTY LTD

Hunter Office Unit 7/335 Hillsborough Rd

Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199

adw

FOR APPROVAL

206

REV.

BLACK HILL CENG PLANS

ROAD LONGITUDINAL SECTION: ROAD MC01 -SHEET 6

CENG

PROJECT

PLAN TITLE

239590

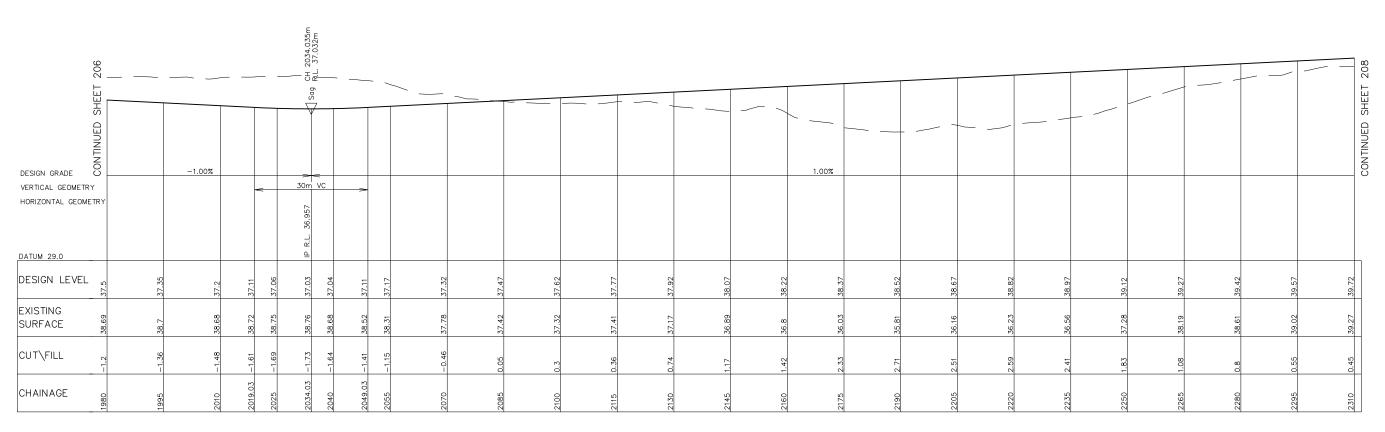
PROPERTY DESCRIPTION

ADW Johnson

BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

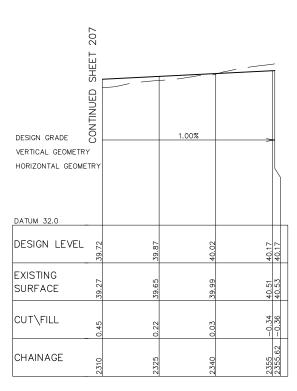
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

| ALL DIMENSIONS ARE IN METRES. DO NOT SCALE | DONOT SCA DESIGN FILE N:\239590\Design\12D\



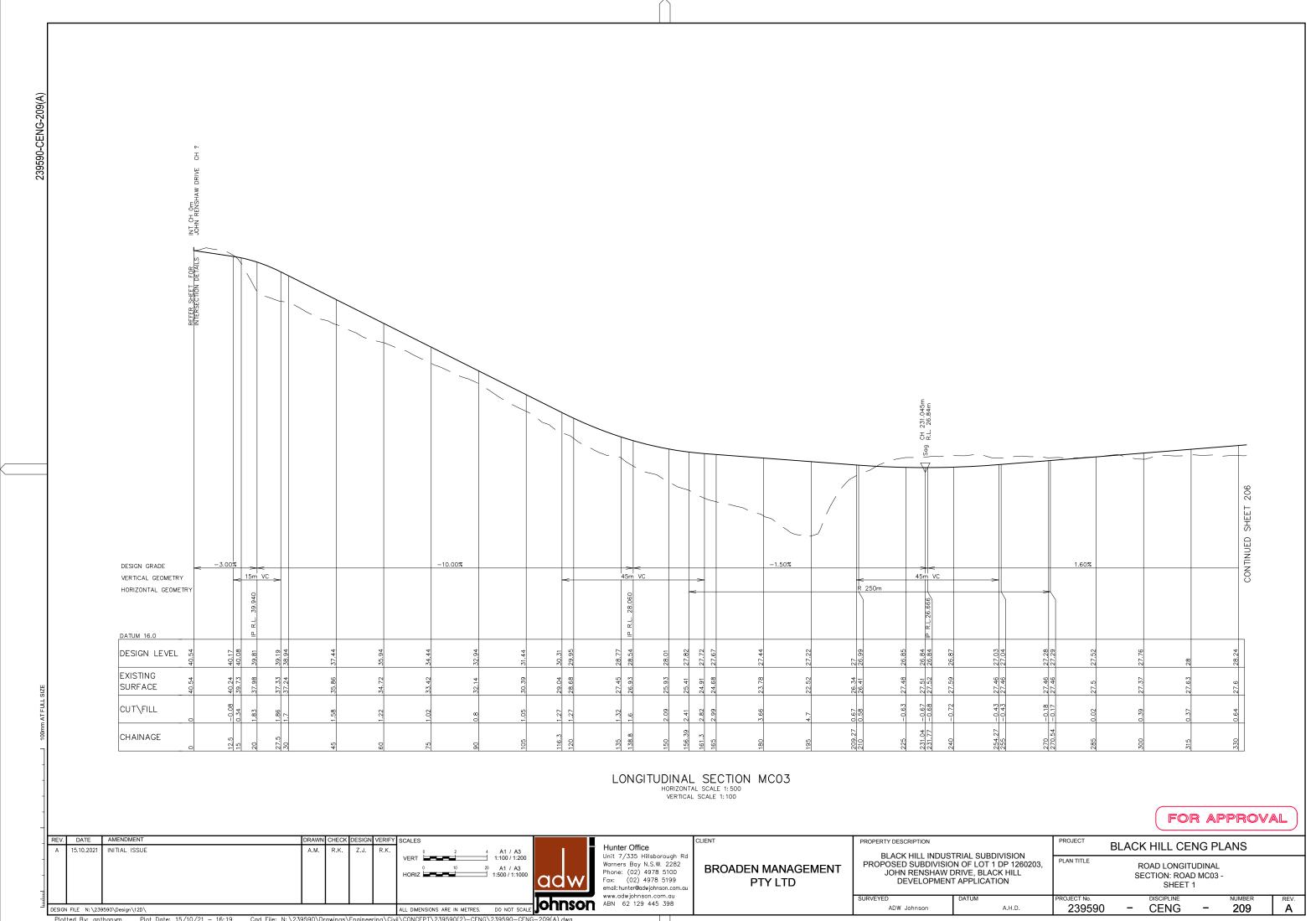
LONGITUDINAL SECTION MC01 HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

A	15.10.2021	AMENDMENT 1 INITIAL ISSUE	A.M.	 Z.J.	BV	SCALES 0 2 4 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION	TRIAL SUBDIVISION	PROJECT	BLACK HILL CEN	G PLANS	
						VERT 1:100 / 1:200 0 10 20 A1 / A3 HORIZ 1:500 / 1:1000	adw	Unit 7/335 Hillsborough f Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email: hunter@adwjohnson.com.	BROADEN MANAGEMENT PTY LTD	PROPOSED SUBDIVISIO JOHN RENSHAW I DEVELOPMEN	ON OF LOT 1 DP 1260203, DRIVE, BLACK HILL	PLAN TITLE	ROAD LONGITUE SECTION: ROAD N SHEET 7		
DESIG	GN FILE N:\2	239590\Design\12D\	ļ			ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	Johnson	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590	- CENG	- NUMBER 207	REV.



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

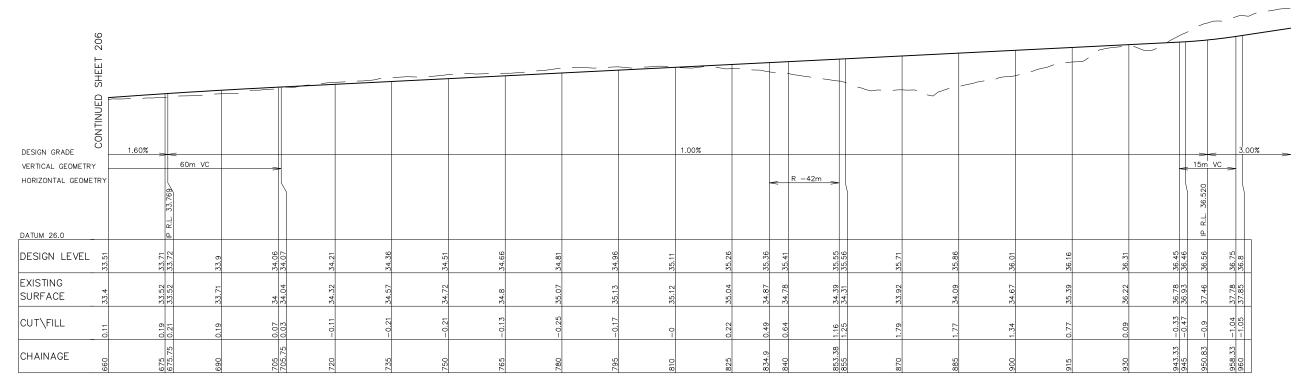
╢	REV.	DATE 15.10.2021		CHECK R.K.	R.K.	Y SCALES 0 2 4 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION	TRIAL CURRINGON	PROJECT	BLACK HILL CE	NG PLANS		
-						VERT 1:100 / 1:200 HORIZ 1:500 / 1:1000	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	BROADEN MANAGEMENT PTY LTD	PROPOSED SUBDIVISION JOHN RENSHAW	TRIAL SUBDIVISION ON OF LOT 1 DP 1260203, DRIVE, BLACK HILL T APPLICATION	PLAN TITLE	ROAD LONGIT SECTION: ROAL SHEET 8	D MC01 -		
1	DESIGN I	FILE N:\239	9590\Design\12D\		 Щ	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	ohnsor	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT №. 239590	DISCIPLINE - CENG	- 208	R	REV.



239590-CENG-210(A) INT CH 585.755m MC04 CH ? CONTINUED SHEET 1.60% DESIGN GRADE € 60m VC VERTICAL GEOMETRY R 2000m HORIZONTAL GEOMETRY DATUM 20.0 DESIGN LEVEL EXISTING SURFACE CUT\FILL 585 0.85 586.25 0.83 CHAINAGE

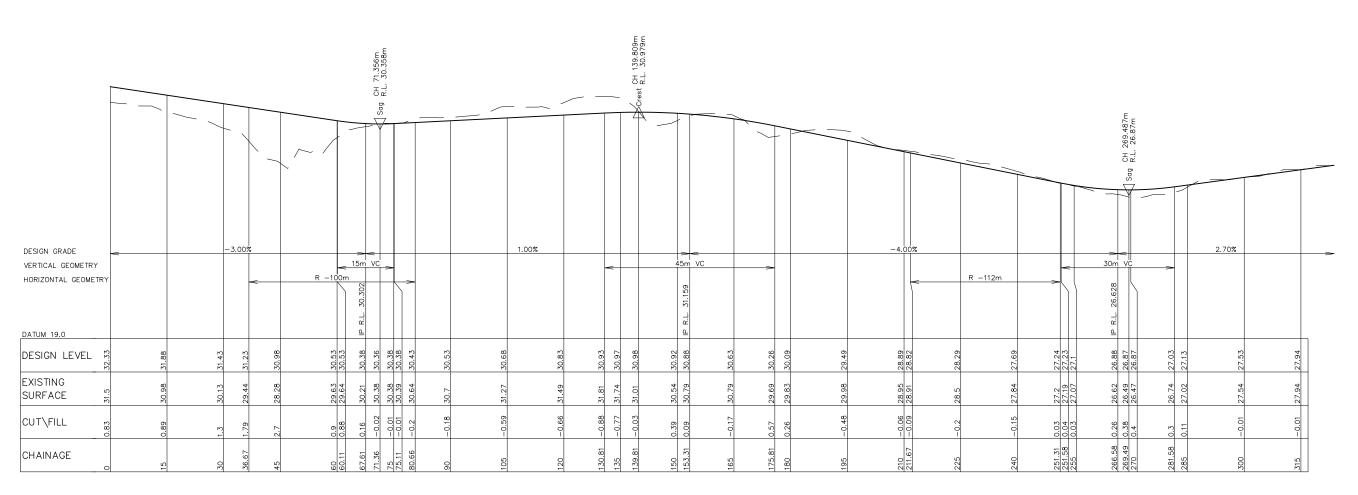
LONGITUDINAL SECTION MC03 HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

and in the reduction in	ENO DI ANO	DI ANIO	10 DL A	- NI	 111111 /	A O I	D.	·Τ ,	PROJEC*				RIPTION	PROPERTY DESCRIPTION	CL						ES	IFY SCA	N VEF	DESIG	HECK D	N CH	DRAWN	DRA		MENT	AMENDM	DATE	REV.	41
Warners Bay N.S.W. 2282 Phone: (02) 4978 5199 email: hunter@adwjohnson.com.au Warners Bay N.S.W. 2282 Phone: (02) 4978 5199 email: hunter@adwjohnson.com.au	ENG PLANS	PLANS	1G PLA	FIN	HILL (-ACK	BL	ı			OLIDD	LIOTOLAL		DI A OKLUUL			Ī	4 A1 / A3	4	2	0	ζ.	R.	Z.J.	R.K.	R.	A.M.	Α.		ISSUE	INITIAL I	5.10.2021	Α .	
	DAD MC03 -		MC03 -	DAD N	CTION: R			LE	PLAN TIT	DP 1260203, K HILL	LOT 1 E, BLAC	SION OF I W DRIVE,	SUBDIVISI RENSHAW	PROPOSED SUBI JOHN RENS	282 00 99 com.au	Warner's Bay N.S.W. Phone: (02) 4978 Fax: (02) 4978 email: hunter@adwjohns	adw	20 A1 / A3	20	10	0	HO												-
DESIGN FILE N:\239590\Design\12D\ ABN 62 129 445 398 ABU Johnson ALL DIMENSIONS ARE IN METRES. DO NOT SCALE DESIGN FILE N:\239590\Design\12D\ ABN 62 129 445 398	- 210					_		No. 9590	PROJECT	A.H.D.	UM	DATU	ohnson	SURVEYED ADW Johnson		www.adwjohnson.com ABN 62 129 445	ohnson	DO NOT SCALE	TRES.	S ARE IN METR	IMENSIONS	ALL								\120\	590\Design`	IF N·\239	DESIGN E	∄.



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

-	REV.	DATE 15.10.2021	AMENDMENT INITIAL ISSUE	_	R.K.	VERIFY R.K.	SCALES 0 2 4 A1 / A3	Hunter Office	CLIENT	PROPERTY DESCRIPTION	TRIAL SUBDIVISION	PROJECT	BLACK HILL CEN	IG PLANS	
							VERT 1:100 / 1:200 HORIZ 1:500 / 1:1000	Unit 7/335 Hillst Warners Bay N.S. Phone: (02) 497 Fax: (02) 497: email: hunter@adwjoh	2282 5100 BROADEN MANAGEMENT FIY LTD	PROPOSED SUBDIVISION JOHN RENSHAW	DRIVE, BLACK HILL T APPLICATION	PLAN TITLE	ROAD LONGITU SECTION: ROAD SHEET 3	MC03 -	
1	DESIGN F	FILE N: \239	9590\Design\12D\			ļ	ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	www.adwjohnson.d		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590	DISCIPLINE - CENG	- 211	REV.



LONGITUDINAL SECTION MC04

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100

RE	_	5.10.2021			CHECK R.K.	_	R.K.	SCALES 0 2 4 A1 / A3		Hunter Office	CLIENT	PROPERTY DESCRIPTION BLACK HILL INDUS	TRIAL CLIRRIVICION	PROJECT	BLACK HILL CENG	PLANS	
								VERT 1:100 / 1:200 10 20 A1 / A3 HORIZ 1:500 / 1:1000	adw	Unit 7/335 Hillsborough Rd Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 email:hunter@adwjohnson.com.au	BROADEN MANAGEMENT PTY LTD	PROPOSED SUBDIVISIO JOHN RENSHAW [DEVELOPMEN	N OF LOT 1 DP 1260203, PRIVE, BLACK HILL	PLAN TITLE	ROAD LONGITUDIN SECTION: ROAD MO		
DE DE	SIGN FIL	ILE N:\2395	99\Design\12D\			<u> </u>		ALL DIMENSIONS ARE IN METRES. DO NOT SCALE	ohnsor	www.adwjohnson.com.au ABN 62 129 445 398		SURVEYED ADW Johnson	DATUM A.H.D.	PROJECT No. 239590	DISCIPLINE - CENG -	NUMBER 212	REV.

15.10.2021 INITIAL ISSUE

Hunter Office

VERT 1:100 / 1:200

HORIZ 1:100 / 1:200

1:500 / 1:1000

ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

VII \CONCEPT\239590(2)-CENG\239590-CFNG-213(A) dues DRAWN CHECK DESIGN VERIFY SCALES

PTY LTD

BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

PLAN TITLE

BLACK HILL CENG PLANS ROAD LONGITUDINAL SECTION: ROAD MC05

CENG

BROADEN MANAGEMENT

PROPERTY DESCRIPTION

ADW Johnson

PROJECT

239590

FOR APPROVAL

213

REV.

LONGITUDINAL SECTION MC05

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

- INT CH OM CH 812.801m			 Sag CH 23.75m	~ R.L. 32.536m		_ —						Crest CH 142.337m					
K VALUE DESIGN GRADE VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 25.0	5.00%	IP RL 32.480 V	7	7				1.00%			•	15.0 30 m VC	>		-1.00%		-
DESIGN LEVEL 8	32.71 32.64	32.56	32.54	32.56 32.58	32.73	32.88	33.03	i .	5.	33.55	33.61	33.63	33.55	33.48		55.33	33.18
EXISTING 55 SURFACE (ES) 57	34.92 34.98	35.07					35.91		36.16	35.88	35.74	35.58		34.81		34.0/	33.64
-CUT \ +FILL \ \ ES to DESIGN \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	-2.22	-2.51					12.88		-2.83	2 4	51	-1.95 -1.78				-0./4	-0.46
CHAINAGE	2.5	0	10		ω	0	Ŋ		25	27.34	35	42.34	57.34	65		08	95

15.10.2021 INITIAL ISSUE

INT CH 0m MC01 CH 489. 20m 29. 유민 K VALUE -3.00% 1.00% DESIGN GRADE VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 22.0 DESIGN LEVEL EXISTING SURFACE (ES) −CUT \ +FILL ໘ -3.25 -3.2 ES to DESIGN CHAINAGE

LONGITUDINAL SECTION MC06

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

4 A1 / A3 1:100 / 1:200

DRAWN CHECK DESIGN VERIFY SCALES

FOR APPROVAL

BLACK HILL CENG PLANS

PROJECT

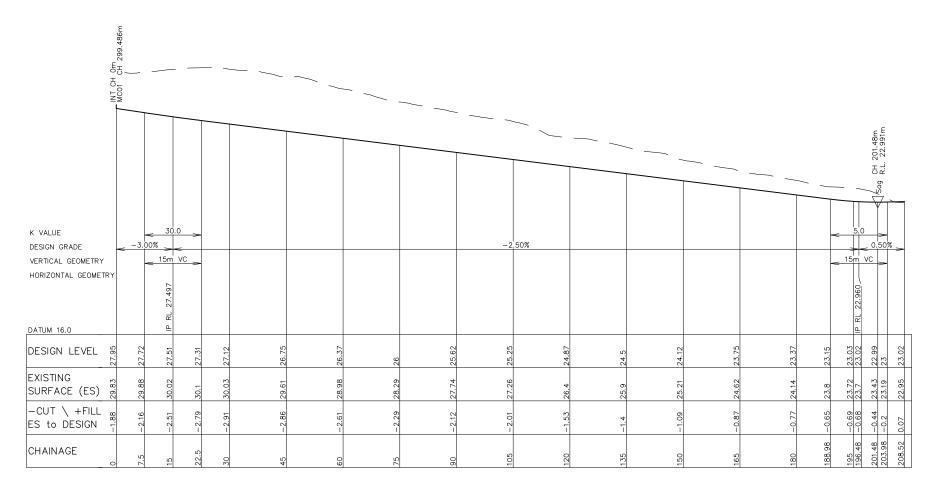
PLAN TITLE

PROPERTY DESCRIPTION

BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 **BROADEN MANAGEMENT** ROAD LONGITUDINAL adw SECTION: ROAD MC06 PTY LTD ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ON SC REV. ADW Johnson 239590 CENG 214

Hunter Office Unit 7/335 Hillsborough Rd

15.10.2021 INITIAL ISSUE



LONGITUDINAL SECTION MC09 HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

FOR APPROVAL

BLACK HILL CENG PLANS

PROJECT

PROPERTY DESCRIPTION

BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION PLAN TITLE Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199 **BROADEN MANAGEMENT** ROAD LONGITUDINAL adw SECTION: ROAD MC09 PTY LTD rax: (U2) 4978 5199 email: hunter@adwjohnson.com.a www.adwjohnson.com.au www.adwjohnson.com.au ALL DIMENSIONS ARE IN METRES. DO NOT SCALE REV. ADW Johnson 239590 CENG 215 DESIGN FILE N:\239590\Design\12D\

Hunter Office Unit 7/335 Hillsborough Rd

15.10.2021 INITIAL ISSUE

CH 150.291m R.L. 35.123m CH 21.5m R.L. 33.36 K VALUE DESIGN GRADE 1.50% VERTICAL GEOMETRY HORIZONTAL GEOMETRY DATUM 26.0 DESIGN LEVEL EXISTING SURFACE (ES) -CUT \ +FILL ES to DESIGN CHAINAGE

LONGITUDINAL SECTION MC10

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:100

4 A1 / A3 1:100 / 1:200

adw

Hunter Office Unit 7/335 Hillsborough Rd

Warners Bay N.S.W. 2282 Phone: (02) 4978 5100 Fax: (02) 4978 5199

FOR APPROVAL

216

REV.

BLACK HILL CENG PLANS

ROAD LONGITUDINAL

SECTION: ROAD MC10

CENG

PROJECT

PLAN TITLE

239590

PROPERTY DESCRIPTION

ADW Johnson

BROADEN MANAGEMENT

PTY LTD

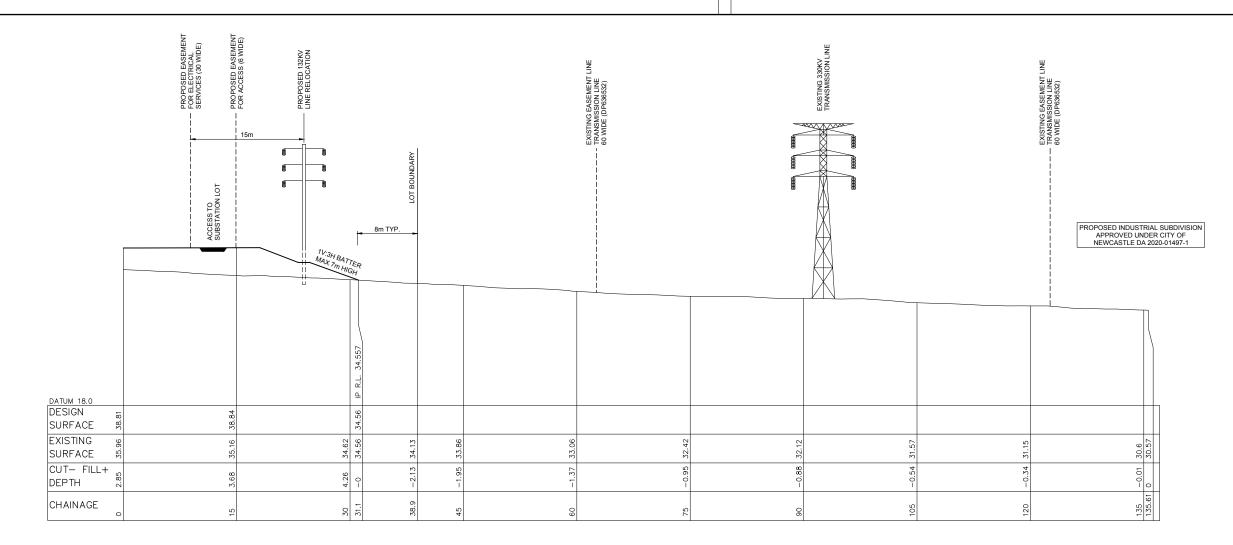
BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

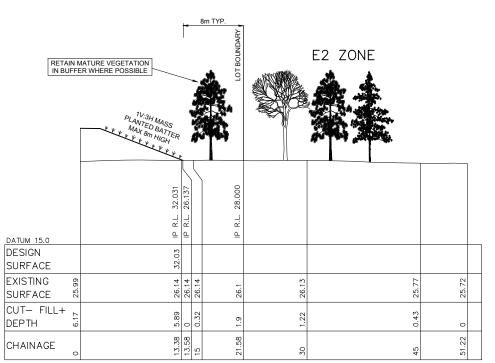
ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ON SC DESIGN FILE N:\239590\Design\12D\

TYPICAL CROSS SECTION ROAD MC01, MC05, MC06, MC09, MC10 SCALE 1:100 NATURAL

FOR APPROVAL

REV. DATE AMENDMENT PROPERTY DESCRIPTION PROJECT Hunter Office
Unit 7/335 Hillsborough Rd
Worners Bay N.S.W. 2282
Phone: (02) 4978 5100
Fax: (02) 4978 5199 BLACK HILL CENG PLANS 15.10.2021 INITIAL ISSUE BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION PLAN TITLE **BROADEN MANAGEMENT** TYPICAL CROSS SECTION PTY LTD ALL DIMENSIONS ARE IN METRES. DO NOT SCALE ON SC NUMBER **221** REV. 239590 CENG





SITE SECTION DETAIL 2 HORIZONTAL SCALE 1:250 VERTICAL SCALE 1:250

CUT POWER EASEMENT TO FUTURE DESIGN LEVELS TO FACILITATE INSTALLATION OF 33kv & SUBSTATION

TYPICAL POWER EASEMENT SECTION NOT TO SCALE

ADW Johnson

SITE SECTION DETAIL 1 HORIZONTAL SCALE 1: 250 VERTICAL SCALE 1: 250

DRAWN CHECK DESIGN VERIFY SCALES

Hunter Office

adw

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

BROADEN MANAGEMENT PTY LTD

PROPERTY DESCRIPTION BLACK HILL INDUSTRIAL SUBDIVISION PROPOSED SUBDIVISION OF LOT 1 DP 1260203, JOHN RENSHAW DRIVE, BLACK HILL DEVELOPMENT APPLICATION

PROJECT BLACK HILL CENG PLANS PLAN TITLE

SITE SECTIONS

CENG

239590

FOR APPROVAL

222

REV.

DESIGN FILE N:\239590\Design\12D\ ALL DIMENSIONS ARE IN METRES. DO NOT SCALE

REV. DATE AMENDMENT

INITIAL ISSUE

15.10.2021