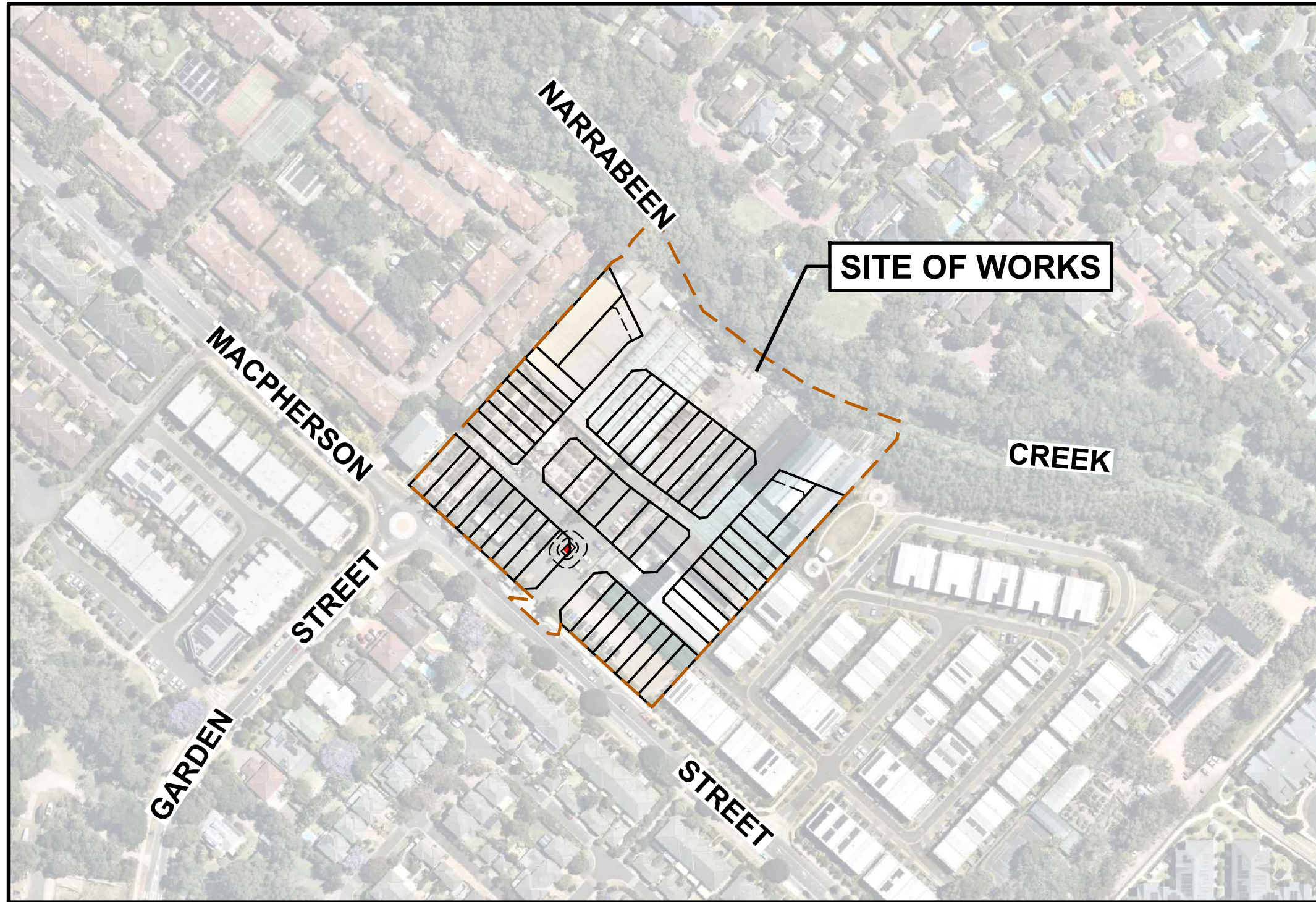


PROPOSED SUBDIVISION OF
LOT 1 D.P.592091
20-22 MACPHERSON STREET, WARRIEWOOD
CIVIL WORKS
DEVELOPMENT APPLICATION



(SOURCE: NEARMAP DECEMBER 2022)

DRAWING No.	DRAWING TITLE	REV.
359-21C-DA-0001	COVER SHEET, LOCALITY PLAN AND INDEX SHEET	H
359-21C-DA-0002	GENERAL NOTES	H
359-21C-DA-0003	LEGEND	H
359-21C-DA-0004	KEY PLAN	H
359-21C-DA-0021	DEMOLITION PLAN	H
359-21C-DA-0051	BULK EARTHWORKS PLAN	H
359-21C-DA-0061	BULK EARTHWORKS SITE SECTIONS SHEET 1 OF 3	H
359-21C-DA-0062	BULK EARTHWORKS SITE SECTIONS SHEET 2 OF 3	H
359-21C-DA-0063	BULK EARTHWORKS SITE SECTIONS SHEET 3 OF 3	H
359-21C-DA-0101	ROAD AND DRAINAGE PLAN SHEET 1 OF 2	H
359-21C-DA-0102	ROAD AND DRAINAGE PLAN SHEET 2 OF 2	H
359-21C-DA-0151	TYPICAL ROAD CROSS SECTIONS	H
359-21C-DA-0152	NARRABEEN CREEK CROSS SECTION	H
359-21C-DA-0201	ROAD No.01, No.3, No.04 & No.05 LONGITUDINAL SECTION	H
359-21C-DA-0202	ROAD No.02 LONGITUDINAL SECTION	H
359-21C-DA-0701	POST-DEVELOPMENT CATCHMENT PLAN	H
359-21C-DA-0702	INTERIM CATCHMENT PLAN	H
359-21C-DA-0751	TEMPORARY OSD/WSUD BASIN No.1 PLAN AND SECTIONS	H
359-21C-DA-0752	OSD TANK PLAN AND SECTION	H
359-21C-DA-0753	STORMWATER DRAINAGE DETAILS	H
359-21C-DA-0901	SEDIMENT AND EROSION CONTROL PLAN	H
359-21C-DA-0902	SEDIMENT AND EROSION CONTROL DETAILS	H
359-21C-DA-0911	BIN PAD LOCATION PLAN	H

G	12.05.23	ISSUED FOR DEVELOPMENT APPLICATION	S.Y.	N.M.
G	17.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	T.L.
F	14.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	N.M.
E	04.04.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
D	21.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
C	16.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	W.C.
REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.

Authorised for issue by:

Principal:
COLONIAL CREDITS PTY. LTD.

L.G.A.
NORTHERN BEACHES COUNCIL

Scale: AS SHOWN Datum: AHD

Project:
PROPOSED SUBDIVISION OF
LOT 1 D.P.592091
20-22 MACPHERSON STREET, WARRIEWOOD

ABN 77 050 209 991 ACN 050 209 991
Suite 7.01, Level 7, 3 Roder Boulevard,
Rhodes, NSW, 2138
PO Box 3220, Rhodes NSW 2138
Tel. (02) 9669-1855
reception@crrhodes.com.au
www.craigandrhodes.com.au
© Craig & Rhodes Pty Ltd

Drawing Title
COVER SHEET, LOCALITY PLAN AND INDEX SHEET





C&R Ref.
359-21

Drawing Ref.
359-21-C-DA-0001

Revision
H

DEVELOPMENT APPLICATION

		50mm	B	100mm	C	150mm	D	200mm	E	250mm	F	300mm	G	350mm	H	400mm	I	450mm	J	500mm	K	550mm	L	600mm	M	650mm	N	700mm	O	750mm	P							
A1	GENERAL NOTES																																					
11	500mm	1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL ENGINEERING DESIGN SPECIFICATION AND ENGINEERING CONSTRUCTION SPECIFICATION.										33. ALL TRAFFIC CONTROL DEVICES SHALL REMAIN ERECTED OUTSIDE WORKING HOURS WITH FLASHING YELLOW LIGHTS ON BARRIER BOARDS TO BE IN OPERATION AFTER DARK.										23. UNLESS SPECIFIED ALL DRAINAGE GRATES TO BE CLASS 'D' GALVANISED MILD STEEL TO AS 3996 (LATEST EDITION).										23. THE CONTRACTOR IS TO IMPLEMENT SEDIMENT AND EROSION CONTROL MEASURES APPROPRIATE TO THE STAGING OF THE WORKS.						
		2. SERVICES SHOWN ON THESE PLAN ARE NOT GUARANTEED COMPLETE OR CORRECT AND HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT SERVICE PROVIDERS AND FIELD INVESTIGATIONS. THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND SHALL MAKE ALL NECESSARY ARRANGEMENTS WITH THE RELEVANT SERVICE PROVIDERS TO RELOCATE OR ADJUST AS FOUND NECESSARY.										34. ROADS ADJOINING THE SITE MUST BE KEPT CLEAN AND FREE OF ALL EXCAVATED/TRANSPORTED SPOIL MATERIAL.										24. uPVC PIPES SHALL BE SUPPLIED WITH SUFFICIENT QUANTITIES OF SOLVENT FOR MAKING OF THE PIPE JOINTS.										TOPSOIL						
		3. UTILITY ADJUSTMENTS ARE TO BE AT THE DEVELOPER'S EXPENSE.										35. SITE FILLING AND COMPACTION IS TO BE CARRIED OUT UNDER THE SUPERVISION OF A CHARTERED GEOTECHNICAL ENGINEER AND SHALL BE IN ACCORDANCE WITH NORTHERN BEACHES COUNCIL . "WORKS SPECIFICATION - CIVIL (CURRENT REVISION)". MINIMUM STANDARD COMPACTION DETERMINED IN THE RELEVANT GEOTECHNICAL REPORT MUST BE ACHIEVED AND CERTIFIED BY "NATA" REGISTERED LAB AND DETAILS SUBMITTED TO COUNCIL.										25. uPVC PIPES SHALL BE TRANSPORTED, HANDLED AND STACKED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.										1. PRIOR TO SPREADING, STOCKPILED SITE SUBGRADE MATERIAL AND/OR IMPORTED TOPSOIL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT .						
		4. CONDUITS SHALL BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES.										36. RESIDENTIAL LOTS TO BE INDIVIDUALLY CLASSIFIED.										26. uPVC PIPE LAYING SHALL BEGIN AT THE DOWNSTREAM END OF THE LINE WITH THE SOCKET END OF THE PIPE FACING UPSTREAM. WHEN THE PIPES ARE LAID, THE BARREL OF EACH PIPE SHALL BE IN CONTACT WITH THE BEDDING MATERIAL THROUGHOUT ITS FULL LENGTH.										2. UNLESS NOTED OTHERWISE, ALLOW FOR CLEARING AND REMOVING STONES EXCEEDING 25 mm AND ANY RUBBISH BROUGHT TO THE SURFACE DURING THE CULTIVATION OF THE SUBGRADE.						
		5. THE CONTRACTOR SHALL NOT ENTER UPON OR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT PRIOR WRITTEN PERMISSION OF THE LAND OWNER.										37. AGRICULTURAL LINES TO BE INSTALLED AS REQUIRED AT THE DIRECTION OF THE SITE SUPERINTENDENT AND/OR COUNCIL'S ENGINEER.										27. THE uPVC PIPE ENDS SHALL BE THOROUGHLY CLEANED BEFORE THE JOINT IS MADE. JOINTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS USING JOINTING SOLVENT AND PRIMER.										3. AFTER PREPARATION OF THE SUBGRADE SURFACE, PLACE TOPSOIL AS APPROPRIATE FOR THE SPECIFIED LANDSCAPE TREATMENTS AND AS INDICATED BY THE DRAWINGS.						
		6. THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO THE PUBLIC FOOTWAYS, ROADWAYS AND PROPERTIES ADJACENT TO THE SITE IN A SAFE CONDITION TO THE SATISFACTION OF COUNCIL'S ENGINEER AND THE SUPERINTENDENT .										38. STRUCTURAL CERTIFICATION IS REQUIRED FOR CONSTRUCTION OF MAJOR AND NON-STANDARD STRUCTURES										28. THE PIPE CLASS DOES NOT TAKE ACCOUNT OF ANY CONSTRUCTION LOADING										4. THE FINISHED SURFACE OF THE TOPSOIL SHALL BE SMOOTH, FREE OF LUMPS OF SOIL AND LEFT READY FOR CULTIVATING AND PLANTING.						
		7. THE CONTRACTOR SHALL OBTAIN ALL LEVELS FROM ESTABLISHED BENCH MARKS. SURVEY MARKS SHOWN THUS ▲ △ ▢ SHALL BE MAINTAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT SHALL BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.										39. DRIVEWAYS/LAYBACKS TO HAVE MINIMUM 0.6m CLEARANCE FROM ANY PROPOSED & EXISTING UTILITIES, INCLUDING: ELECTRICAL TURRETS, LIGHT POLES, TELECOMMUNICATION PITS, STORMWATER GULLY PITS & STREET TREES. DRIVEWAYS/LAYBACKS TO HAVE A 6.0m CLEARANCE FROM KERB-RETURN TANGENT POINTS.										29. THE CONTRACTOR SHALL BE THOROUGHLY CLEANED BEFORE THE JOINT IS MADE. JOINTING SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS USING JOINTING SOLVENT AND PRIMER.										5. WHERE TOPSOILING IS CARRIED OUT ADJACENT TO KERBS, FOOTPATHS, MOWING STRIPS OR OTHER HARD PAVED SURFACES, THE TOPSOIL SHALL BE FINISHED FLUSH WITH THOSE SURFACES UNLESS OTHERWISE SPECIFIED.						
		8. BENCHMARK, SSM'S PERMANENT MARKS TO BE AHD.										40. VEHICULAR CROSSINGS SHOWN ON THESE PLANS ARE INDICATIVE ONLY.										30. CONSTRUCTION/CIVIL WORK MAY ONLY BE CARRIED OUT ON THE SITE BETWEEN THE HOURS OF 7.00am TO 5.00pm MONDAY TO FRIDAY AND 8.00am to 1.00pm ON SATURDAY. NO WORK PERMITTED TO BE CARRIED OUT ON SUNDAYS OR PUBLIC HOLIDAYS UNLESS OTHERWISE APPROVED BY NORTHERN BEACHES COUNCIL .										Turf and Planting						
		9. PLANT, GOODS & MATERIALS SHALL NOT BE DELIVERED ON THE SITE OUTSIDE THE APPROVED HOURS OF OPERATION.										41. SUBSOIL DRAINAGE SHALL BE PROVIDED ALONG THE CUT SIDE OF ALL NEW ROADS WHERE NO DRAINAGE IS PROVIDED, ALONG THE CENTRE LINE OF HALF ROAD CONSTRUCTION WORKS, AT LOW SPOTS, WHERE REQUIRED BY THE PAVEMENT DESIGN REPORT, AND WHERE DIRECTED BY COUNCIL'S ENGINEER AND THE SUPERINTENDENT .										31. THE CONTRACTOR SHALL CLEAR AND DISPOSE OF ONLY THOSE TREES THAT HAVE BEEN APPROVED TO BE REMOVED. TREES THAT ARE NOT TO BE REMOVED SHALL BE PRESERVED. NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT PRIOR APPROVAL FROM NORTHERN BEACHES COUNCIL .										1. ALL TURF AND OTHER MATERIALS SPECIFIED SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE SUPERINTENDENT .						
		9	450mm		12. FELLED TREES SHALL BE SALVAGED FOR REUSE AS WOODCHIP MULCH OR LOG FORM FOR SITE REHABILITATION. NON-SALVAGEABLE MATERIAL SUCH AS STUMPS AND ROOTS SHALL BE DISPOSED OFF SITE AS NOMINATED BY THE SUPERINTENDENT .										42. LIGHT POLES, STREET NAME POLES AND BUS SHELTERS IN THIS SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF NORTHERN BEACHES COUNCIL AND SHALL COMPLY WITH COUNCIL SPECIFICATIONS.										32. THE CONTRACTOR SHALL STABILISE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS.										2. SUBSTITUTION OF SPECIES SHALL ONLY OCCUR WITH THE PRIOR APPROVAL OF THE SUPERINTENDENT .			
13. SITE SHEDS, STOCKPILES, MATERIALS AND VEHICLE PARKING SHALL BE LOCATED AWAY FROM TREES ON THE SITE TO PREVENT SOIL COMPACTION. STOCKPIILING OF MATERIALS SHALL NOT BE PERMITTED WITHIN TREE PROTECTION AREAS. ALL AREAS FOR STOCKPIILING SHALL BE APPROVED BY THE SUPERINTENDENT .										43. IN WET OR UNSTABLE GROUND CONDITIONS WHERE THE TRENCH BOTTOM REQUIRES FURTHER STABILIZING, ADDITIONAL BEDDING OF 20mm AND/OR 30mm NOMINAL SIZE AGGREGATE (AS DIRECTED BY THE SUPERINTENDENT), SHALL BE PLACED BELOW THE STANDARD BEDDING TO A DEPTH DETERMINED BY THE SUPERINTENDENT . WHERE ORDERED BY THE SUPERINTENDENT AN APPROVED FILTER FABRIC SHALL BE USED IN CONJUNCTION WITH THE ADDITIONAL BEDDING.										33. SITE ROADWORKS BY THE CONTRACTOR SHALL BE PLANNED TO REDUCE CUTTING AND FILLING TO THE ABSOLUTE MINIMUM AND THE EARTHWORKS UNDERTAKEN IN STAGES TO ALLEVIATE EROSION AND LOCALISED INSTABILITY PROBLEM. TO MINIMISE THE EFFECTS OF EROSION, ALL ROAD BATTERS, WHETHER IN CUT OR FILL TO BE STABILISED BY PLANTING (OR THE APPLICATION OF SPRAYED-ON MULCH) WITH APPROPRIATE SPECIES OF VEGETATION AS SOON AS PRACTICAL AFTER CONSTRUCTION.										3. PROTECT THE NEWLY PLANTED AREAS AGAINST TRESPASS AND TRAFFIC UNTIL THE GRASS IS WELL ESTABLISHED. FENCING, WHERE USED, SHALL BE 1.2m HIGH STAR PICKET TYPE, WITH MAXIMUM POST SPACING OF 5m.								
14. ALL SOIL AND WATER MANAGEMENT DEVICES SHALL BE INSTALLED AND APPROVED PRIOR TO WORKS COMMENCING.										44. THE BED AND HAUNCH MATERIAL SHALL BE COMPACTED FOR THE FULL WIDTH OF THE TRENCH TO THE SATISFACTION OF THE SUPERINTENDENT .										34. PREVENTION OF SOIL EROSION, TUNNELING AND SALT SCALDS SHALL BE TREATED BY THE CONTRACTOR USING GYPSUM OR LIME.										4. ALLOW FOR MAKING OVER AND RE-TURFING ALL AREAS WHERE THE GRASS FAILS TO GROW WITHIN ONE MONTH FROM THE DATE OF ORIGINAL PLANTING.								
15. ALL EROSION AND POLLUTION CONTROL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AND REPAIR THROUGHOUT THE COURSE OF BUILDING CONSTRUCTION OR DEVELOPMENT WORK ON THE SITE AND UNTIL THE WORKS HAVE BEEN COMPLETED TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT .										45. THE CHASES SHALL BE FORMED WHERE NECESSARY TO PREVENT SOCKETS, FLANGES OR THE LIKE FROM BEARING ON THE TRENCH BOTTOM OR THE UNDERLAY.										35. SOIL AND SEDIMENT CONTROL DEVICES SHALL BE AS SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AND REMOVE ACCUMULATED SEDIMENT FROM SUCH DEVICES BEFORE 50% CAPACITY IS REACHED. ALL THE ACCUMULATED SEDIMENT SHALL BE RE-SPREAD OR REMOVED IN ACCORDANCE WITH THE SUPERINTENDENTS INSTRUCTIONS. THE DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL SUCH TIME AS THE DISTURBED AREAS HAVE BEEN REHABILITATED TO A CONDITION SATISFACTORY TO THE SUPERINTENDENT .										SURVEY NOTES								
16. TEMPORARY REHABILITATION MUST BE APPLIED AND ESTABLISHED TO DISTURBED AREAS AS SOON AS PRACTICAL AFTER COMPLETION OF EARTHWORKS.										46. PIPE LAYING SHALL BEGIN AT THE DOWNSTREAM END OF THE LINE WITH THE SOCKET ENDS OF THE PIPE FACING UPSTREAM. THE BARREL OF EACH PIPE SHALL BE IN CONTACT WITH THE BEDDING MATERIAL THROUGHOUT ITS FULL LENGTH.										36. NO DISTURBANCE OF SITE PERMITTED OTHER THAN THE IMMEDIATE AREA OF THE WORKS.										1. THE BOUNDARY LINEWORK IN THIS DRAWING SET IS FOR INFORMATION ONLY AND SHOULD NOT BE RELIED UPON. THE CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH THE PROPERTY BOUNDARIES ARE TO BE SETOUT OR VERIFIED BY A REGISTERED SURVEYOR.								
17. TOPSOIL IS TO BE STRIPPED AND STOCKPILED ON THE SITE WITH EROSION CONTROL MEASURES PROVIDED AS DETAILED. UPON COMPLETION OF WORKS, MINIMUM 150mm THICK TOPSOIL SHALL BE SPREAD ON ALL FOOTPATHS, BERMS, BATTERS AND SITE REGRADED AREAS. EXCESS TOPSOIL SHALL BE DISPOSED OF AS DIRECTED BY THE SUPERINTENDENT .										47. FOR RUBBER RING JOINTS THE PIPE ENDS SHALL BE THOROUGHLY CLEANED BEFORE THE JOINT IS MADE. THE TWO PIPE SECTIONS SHALL THEN BE TIGHTLY JOINED WITH THEIR INNER SURFACES AT THE MANUFACTURER'S NOMINATED LAYING GAP.										37. COUNCIL TO RE-INSPECT TREES PRIOR TO THE CONSTRUCTION WORKS COMMENCING.										DRAWING DETAIL								
18. ALL EARTHWORKS TO BE IN ACCORDANCE WITH A.S.3798 & TO BE CARRIED OUT TO THE SATISFACTION OF THE SUPERINTENDENT. UNSOUND MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING.										48. LIFTING HOLES IN PIPES AND CULVERTS SHALL BE PLUGGED WITH MORTAR, PRECAST TAPERED PLUGS, OR TAPE SURROUNDS OR OTHER APPROVED MEANS PRIOR TO BACKFILL MATERIAL BEING PLACED.										38. THESE PLANS ARE SUPPLEMENTARY TO THE CONTRACTORS ENVIRONMENTAL MANAGEMENT PLAN FOR CONSTRUCTION AND SHALL BE READ IN CONJUNCTION WITH THE CONTRACTORS EROSION & SEDIMENT CONTROL PLANS										SURVEY DETAIL BY: CRAIG & RHODES								
8	350mm				20. ALL SITE FILLING SHALL BE PLACED IN LAYERS NOT EXCEEDING 300mm AND COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY AN APPROVED N.A.T.A. SOILS LABORATORY.										49. COMPLETED CEMENT MORTAR JOINTS SHALL BE KEPT DAMP AND PROTECTED FROM THE DIRECT RAYS OF SUN UNTIL BACKFILLING TAKES PLACE.										39. THE CONTRACTOR SHALL INFORM ALL SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN										DRAWING REFERENCE: 359-21G T01 [00]			
			21. WHERE LOT FILLING IN EXCESS OF 300mm IS PROPOSED, LEVELS ARE TO BE TAKEN ON THE STRIPPED SURFACE PRIOR TO THE COMMENCEMENT OF FILLING AND ON THE FINISHED SURFACE. SUCH LEVELS ARE TO BE SHOWN ON THE WORK-AS-EXECUTED PLAN.										50. DRAINAGE LINES SHALL BE CONSTRUCTED TO THE TOLERANCES AS FOLLOWS:										40. THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAYS WORK.										DATE: 12.11.2021					
			22. ALL LAND DISTURBED BY EARTHWORKS SHALL BE SPRAY-GRASSED, OR SIMILARLY TREATED TO ESTABLISH GRASS COVER. SEED MIXTURES ARE TO BE APPROVED BY COUNCIL PRIOR TO SPRAYING. ALL GRASSED AREAS SHALL BE REGULARLY WATERED AND MAINTAINED UNTIL EXPIRATION OF THE MAINTENANCE PERIOD.										16. BACKFILL MATERIAL SHALL BE INSPECTED AND APPROVED BY THE SUPERINTENDENT PRIOR TO PLACING AND COMPACTION.										41. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.										LOT CALCULATIONS					
			23. THE CONTRACTOR SHALL MAINTAIN DUST AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF THE PROJECT.										17. ALL BACKFILL FOR STORMWATER DRAINAGE WORKS IS TO BE COMPACTED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED WITHOUT DAMAGING OR DISPLACING THE PIPEWORK.										42. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED FOLLOWING EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED SITE.										DRAWING REFERENCE: 359-21G L01 [01] - PLAN					
			24. CATCH DRAINS TO BE CONSTRUCTED AS REQUIRED AT THE DIRECTION OF THE SITE SUPERINTENDENT AND/OR COUNCIL'S ENGINEER.										18. BACKFILL FOR STORMWATER PITS AND PIPES SHALL BE COMPACTED TO AT LEAST 95% (98% UNDER ROADS) OF THE MAXIMUM DRY DENSITY AT -2% TO +2% OF OPTIMAL MOISTURE CONTENT AND GRADED IN ACCORDANCE WITH AS 3500.3 (LATEST EDITION).										43. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED ON EXISTING ACCESS TRACKS OR ROADWAYS SO AS NOT TO ENCROACH ON TRAFFIC. ALL EROSION CONTROL MEASURES PLACED SHALL BE CLEARLY IDENTIFIABLE. EROSION CONTROL MEASURES SHALL BE COORDINATED WITH THE CONTRACTORS TRAFFIC MANAGEMENT PLANS IN ORDER TO LIMIT 'CLUTTERING' OF THE EXISTING TRAFFICABLE AREAS.										DATE: 07.03.2023					
			25. CONDUIT TRENCHES, SUB-SOIL DRAINS AND STORMWATER DRAINAGE LINES TO BE BACKFILLED WITH APPROVED WASHED RIVER SAND, FLOODED AND VIBRATED. CONDUIT TRENCHES TO BE GRADED AT A MINIMUM ONE PERCENT (1%) GRADE TO EITHER SUB-SOIL OR STORMWATER DRAINAGE LINES.																																			

H	25.05.23	ISSUED FOR DEVELOPMENT APPLICATION	S.Y.	N.M.			Authorised for issue by:	Principal:	Project:	PROPOSED SUBDIVISION OF LOT 1 D.P.592091 20-22 MACPHERSON STREET, WARRIEWOOD			ABN 77 050 209 991 ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138 PO Box 3220, Rhodes NSW 2138 Tel. (02) 9863-1865 reception@crrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd			Drawing Title	
G	17.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	T.L.			GENERAL NOTES										
F	14.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	N.M.													
E	04.04.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.													
D	21.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.													
C	16.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	W.C.													
REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.													

Colonial Credits Pty. Ltd.		Scale: AS SHOWN		Datum: AHD	
NORTHERN BEACHES COUNCIL					
Signature: _____					

DEVELOPMENT APPLICATION

1

50mm

2

100mm

3

150mm

4

200mm

5

250mm

6

300mm

7

350mm

8

400mm

9

450mm

10

500mm

0mm

A

50mm

B

100mm

C

150mm

D

200mm

E

250mm

F

300mm

G

350mm

H

400mm

I

450mm

J

500mm

K

550mm

L

600mm

M

650mm

N

700mm

O

750mm

P

A1

11

500mm

10

450mm

9

400mm

350mm

8

300mm

7

250mm

6

200mm

5

150mm

4

100mm

3

50mm

2

1

0mm

LEGEND - CIVIL

DESCRIPTION	PROPOSED	EXISTING
LIMIT OF CONSTRUCTION		
CIVIL WORKS BOUNDARY		
SITE WORKS BOUNDARY		
DESIGN CONTOUR - MAJOR		
DESIGN CONTOUR - MINOR		
MASONRY RETAINING WALL		
ROCK RETAINING WALL		
FENCE		
LOCKABLE GATE		
GUIDE POST		
SITE FENCE		
GUARD RAIL		
BATTER (EARTHWORKS)		
CENTRELINE / CHAINAGE		
KERB LINE		
KERB LINE (FUTURE)		
KERB RETURN LABEL		
SURFACE LEVEL		
VEHICULAR CROSSING		
DRIVEWAY		

LEGEND - DRAINAGE

DESCRIPTION	PROPOSED	EXISTING	FUTURE	TEMPORARY
SUBSOIL DRAINAGE LINE				
SUBSOIL DRAINAGE FLUSHING POINT				
STORMWATER DRAINAGE LINE				
RCBC CULVERT LINE				
FLOW DIRECTION AND PIPE SIZE				
STUB, CAP AND BURY FOR FUTURE CONNECTION				
TEMPORARILY BLOCK PIPE				
STRUCTURAL STORMWATER PIT (LINTEL/GRATE VARIABLE)				
STORMWATER PIT - ONGRADE				
STORMWATER PIT - SAG				
STORMWATER PIT - SURFACE INLET				
STORMWATER PIT - JUNCTION PIT				
STORMWATER PIT LABEL (DRAINAGE LINE No. \ DRAINAGE PIT No.)				
CONCRETE HEADWALL WITH RIPRAP SCOUR PROTECTION				
STACKED ROCK HEADWALL WITH RIPRAP SCOUR PROTECTION				
OVERLAND FLOW PATH				
CATCHMENT DIRECTION				
EARTHBANK (LOW FLOW)				
SWALE				
ROOF WATER OUTLET TO KERB				
ROOF WATER CONNECTION TO REAR OF LINTEL				
BASIN FENCE				
BASIN BIO FILTER				

LEGEND - SERVICES

DESCRIPTION	PROPOSED	EXISTING	FUTURE
O/H ELECTRICAL LINE			
ELECTRICAL LINE			
ELECTRICAL PILLAR			
STREET LIGHT			
POWER POLE			
ELECTRICAL SUBSTATION			
WATER LINE			
WATER HYDRANT			
WATER STOP VALVE			
RECYCLE WATER			
COMMUNICATION LINE			
GAS LINE			
SEWER LINE			
SEWER RISING MAIN			
SEWER LINE CONCRETE ENCASED			
SEWER MAINTENANCE HOLE			
SEWER MS/TMS			
NBN LINE			
TELECOMS LINE			
FIBRE OPTIC LINE			
COMBINED SERVICES TRENCH			

LEGEND - PAVEMENT

DESCRIPTION	PROPOSED	EXISTING
ROAD		
TEMPORARY		
FOOTPATH		

LEGEND - SURVEY

DESCRIPTION	PROPOSED	EXISTING
TREES		
EXISTING TREES TO BE REMOVED (MUST BE CONCORDANT WITH ARBORIST REPORT)		

ABBREVIATIONS

RKG	ROLL KERB AND GUTTER
K&G	KERB AND GUTTER
KO	KERB ONLY
ES	EDGE STRIP
DD	DISH DRAIN
PR	PRAM RAMP
VC	VEHICULAR CROSSING
RW	RETAINING WALL
S.G.G.P.	STANDARD GRATED GULLY PIT
G.S.I.P.	GRATED SURFACE INLET PIT
JP	JUNCTION PIT
HW	HEADWALL
GPT	GROSS POLLUTANT TRAP
TOW	TOP OF WALL
BOW	BOTTOM OF WALL
TFSL	TOP FINISHED SURFACE LEVEL
BFSL	BOTTOM FINISHED SURFACE LEVEL
RCP	STEEL REINFORCED CONCRETE PIPE
RRJ	RUBBER RING JOINT
C1 or C2	PIPE CLASS
MH	MAINTENANCE HOLE
MS	MAINTENANCE SHAFT
TMS	TERMINAL MAINTENANCE SHAFT
RP	RODDING POINT
HYD	HYDRANT
SV	STOP VALVE
SAG	LOW POINT
CREST	HIGH POINT
PP	POWER POLE
ES	EDGE STRIP

1

H

25.05.23

ISSUED FOR DEVELOPMENT APPLICATION

S.Y.

N.M.

G

17.04.23

ISSUED FOR DEVELOPMENT APPLICATION

T.F.

T.L.

F

14.04.23

ISSUED FOR DEVELOPMENT APPLICATION

T.F.

N.M.

E

04.04.23

ISSUED FOR DEVELOPMENT APPLICATION

Z.Y.

T.L.

D

21.03.23

ISSUED FOR DEVELOPMENT APPLICATION

Z.Y.

T.L.

C

16.03.23

ISSUED FOR DEVELOPMENT APPLICATION

Z.Y.

W.C.

REV.

DATE

AMENDMENT DESCRIPTION

DES.

DRN.

Authorised for issue by:

Principal:

L.G.A.

Scale:

Datum:

Colonial Credits Pty. Ltd.

NORTHERN BEACHES COUNCIL

AS SHOWN

AHD

Project:

PROPOSED SUBDIVISION OF LOT 1 D.P.592091

20-22 MACPHERSON STREET, WARRIEWOOD

ABN 77 050 209 991 ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138 PO Box 3220, Rhodes NSW 2138 Tel: (02) 9665-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd

Drawing Title

LEGEND

C&R Ref.

Drawing Ref.

Revision

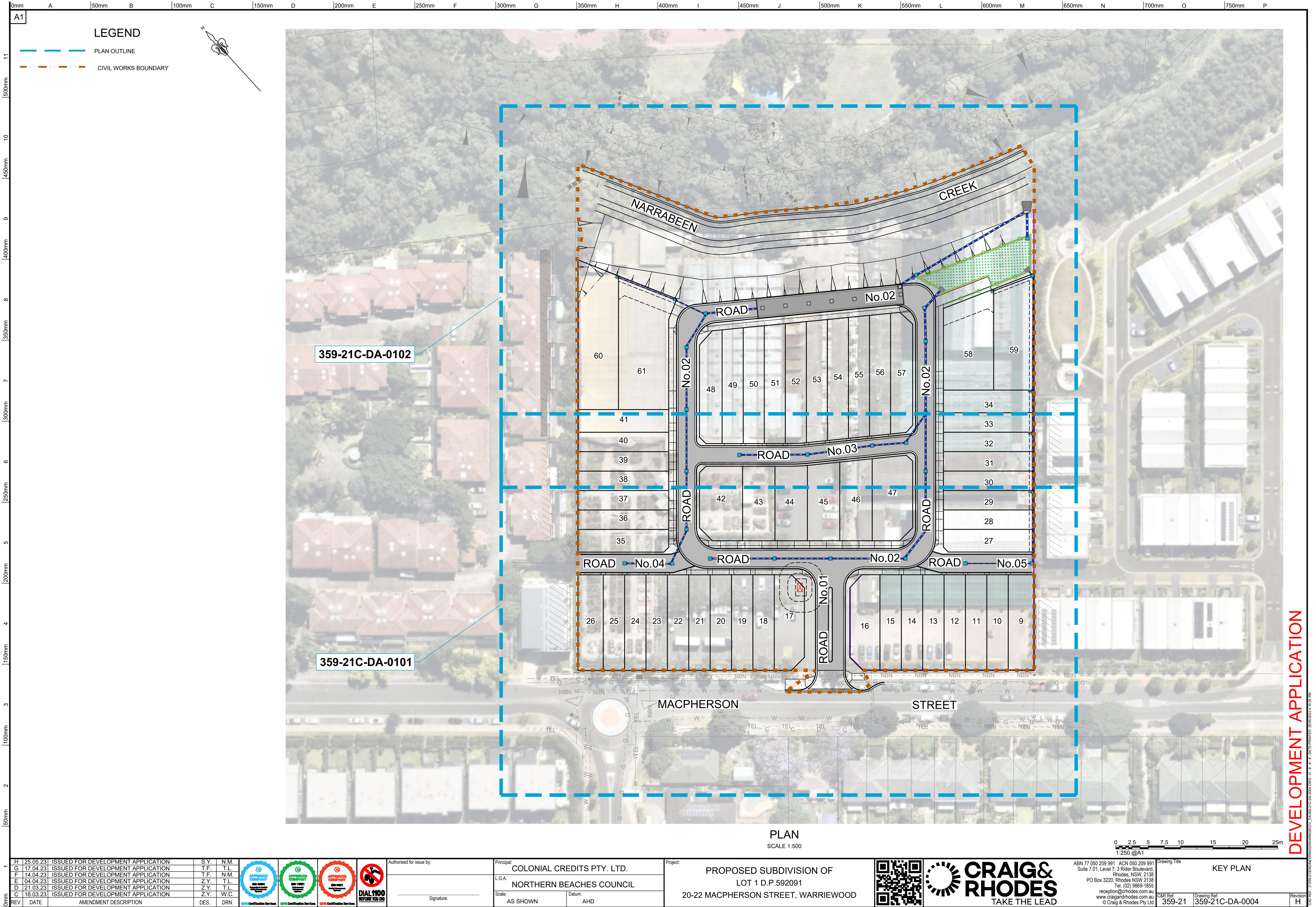
359-21

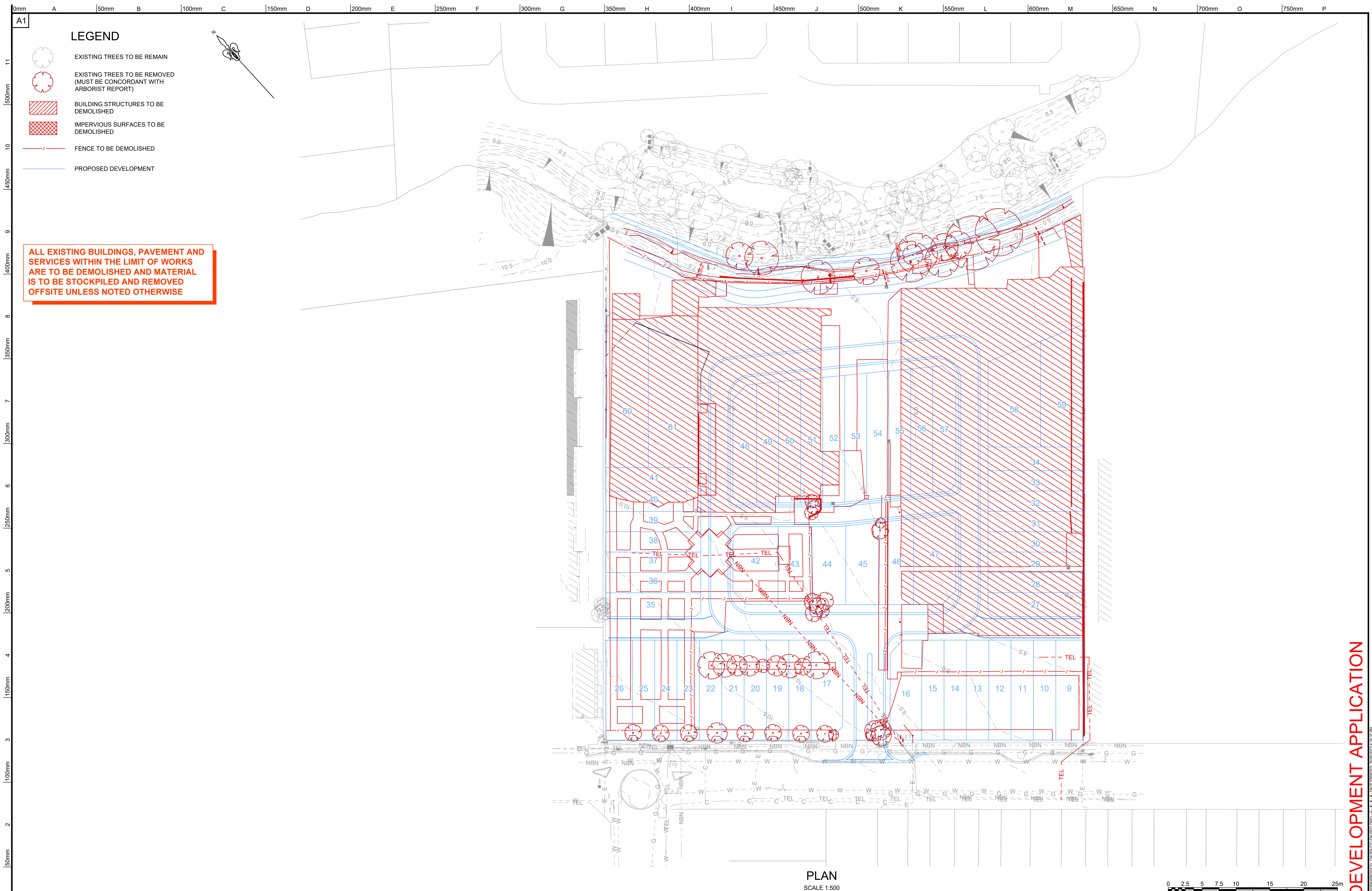
359-21C-DA-0003

H

DEVELOPMENT APPLICATION

DATE PRINTED: 26/05/2023 4:10:14 PM









DEVELOPMENT APPLICATION

Onm
1

H	25.05.23	ISSUED FOR DEVELOPMENT APPLICATION	S.Y.	N.M.
G	17.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	T.L.
F	14.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	N.M.
E	04.04.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
D	21.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
C	16.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	W.C.

REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.



Authorised for issue by:

Signature


Principal:
COLONIAL CREDITS PTY. LTD.


L.G.A.
NORTHERN BEACHES COUNCIL

Scale:
AS SHOWN

Datum:
AHD

Project:
**PROPOSED SUBDIVISION OF
LOT 1 D.P.592091
20-22 MACPHERSON STREET, WARRIEWOOD**





CRAIG & RHODES
TAKE THE LEAD

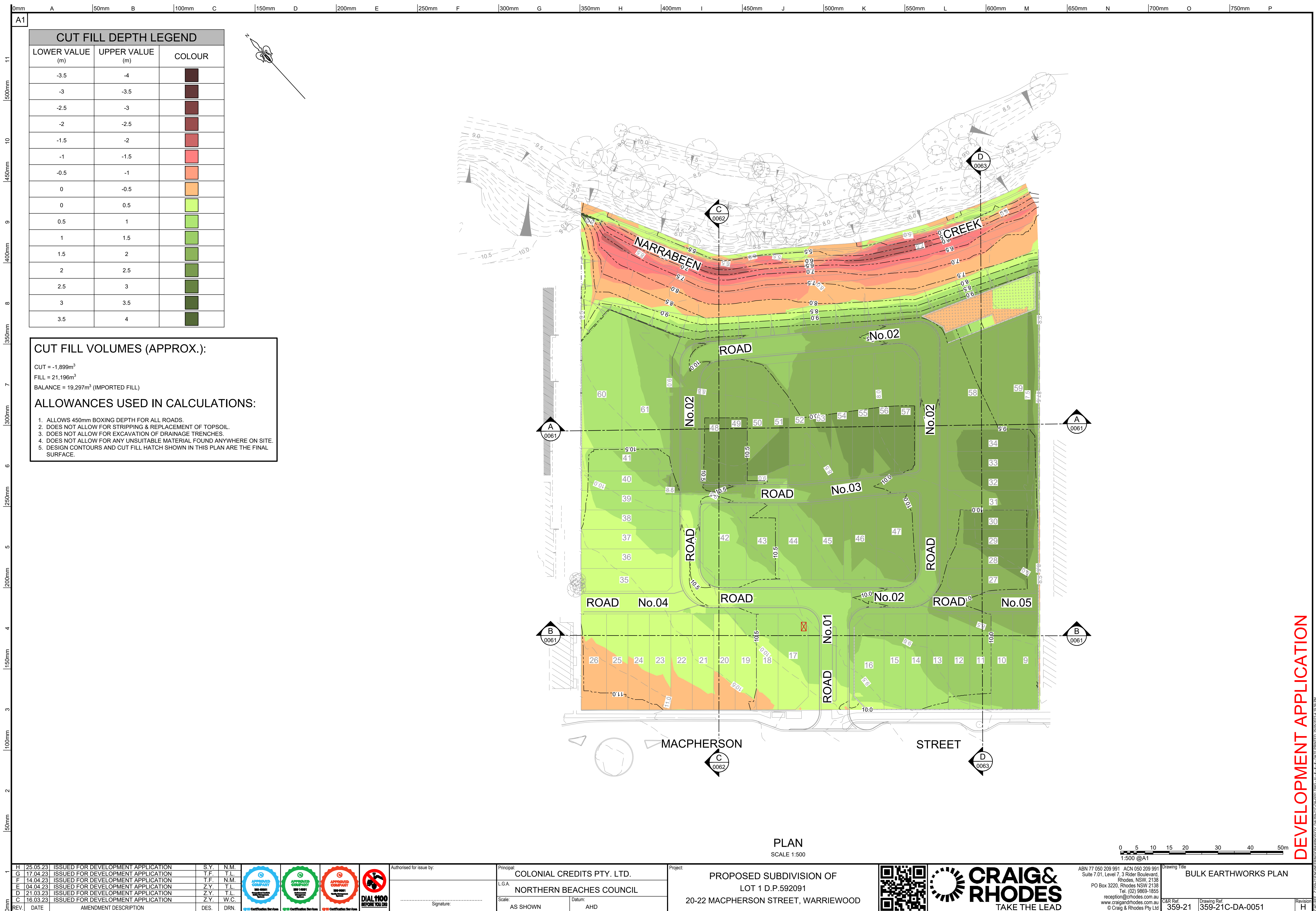
ABN 77 050 209 991 ACN 050 209 991
Suite 7.01, Level 7, 3 Rider Boulevard,
Rhodes, NSW, 2138
PO Box 3220, Rhodes NSW 2138
Tel. (02) 9869-1855
reception@craigandrhodes.com.au
www.craigandrhodes.com.au
© Craig & Rhodes Pty Ltd

Drawing Title
DEMOLITION PLAN

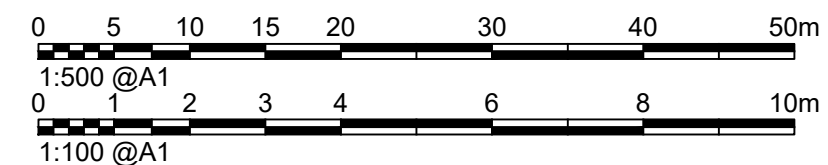
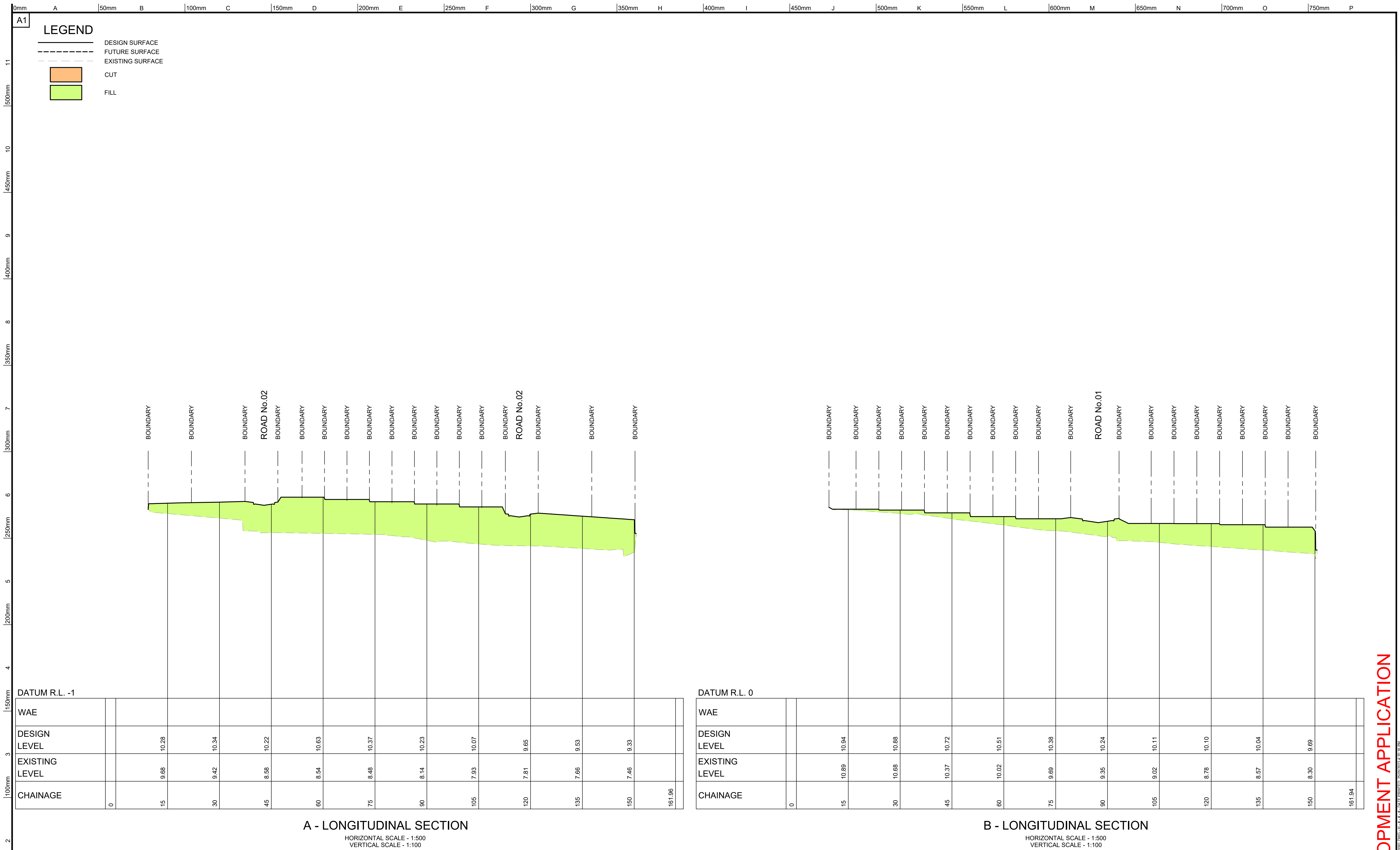
C&R Ref.
359-21

Drawing Ref.
359-21C-DA-0021

Revision
H



DEVELOPMENT APPLICATION



1	H	25.05.23	ISSUED FOR DEVELOPMENT APPLICATION	S.Y.	N.M.
	G	17.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	T.L
	F	14.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	N.M.
	E	04.04.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L
	D	21.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L
	C	16.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	W.C.
REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.	

Authorised for issue by: _____
Signature: _____

Principal:
COLONIAL CREDITS PTY. LTD.

L.G.A.
NORTHERN BEACHES COUNCIL

Scale:

Datum:

AS SHOWN

AHD

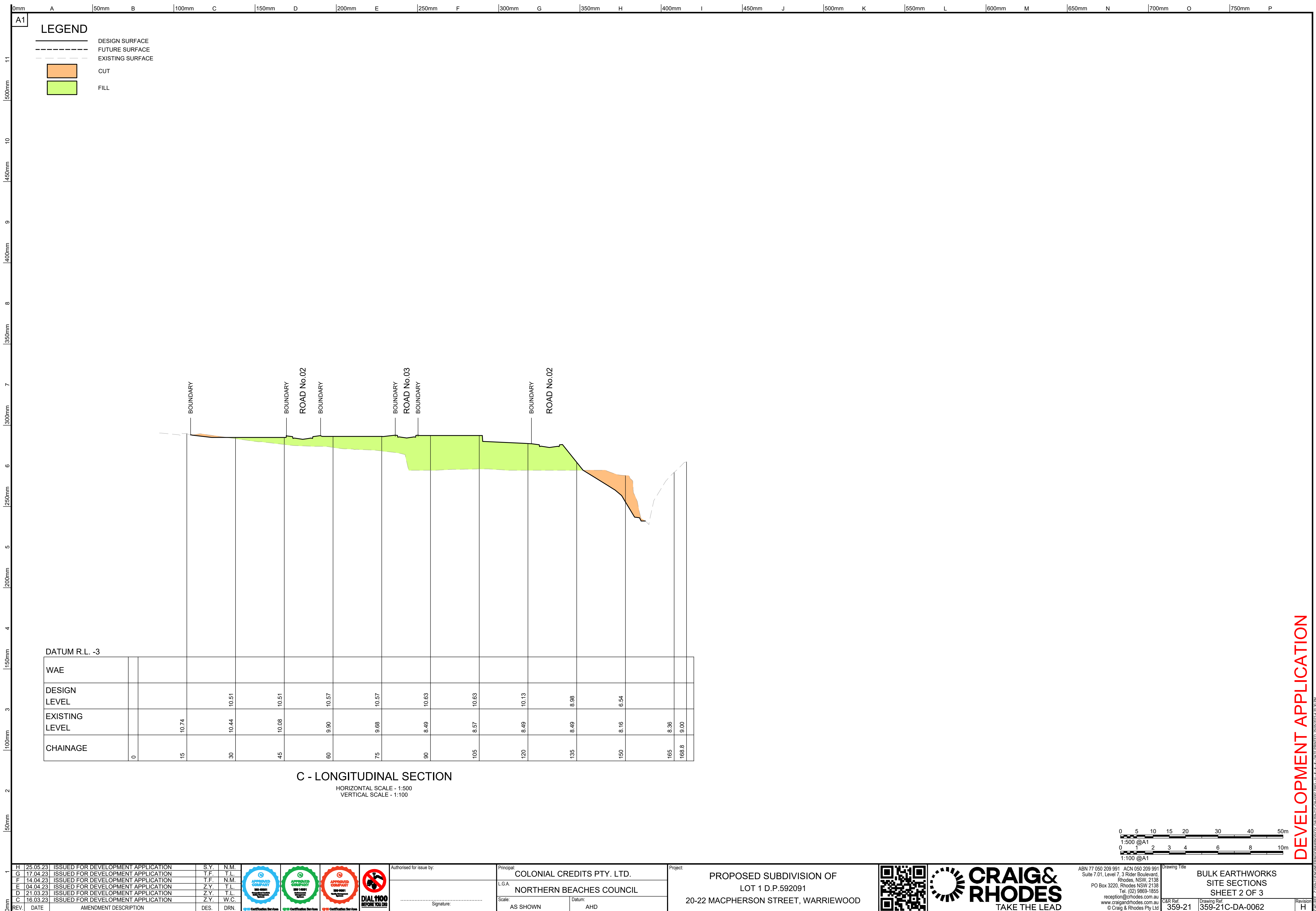
Project:
**PROPOSED SUBDIVISION OF
LOT 1 D.P.592091**

20-22 MACPHERSON STREET, WARRIEWOOD

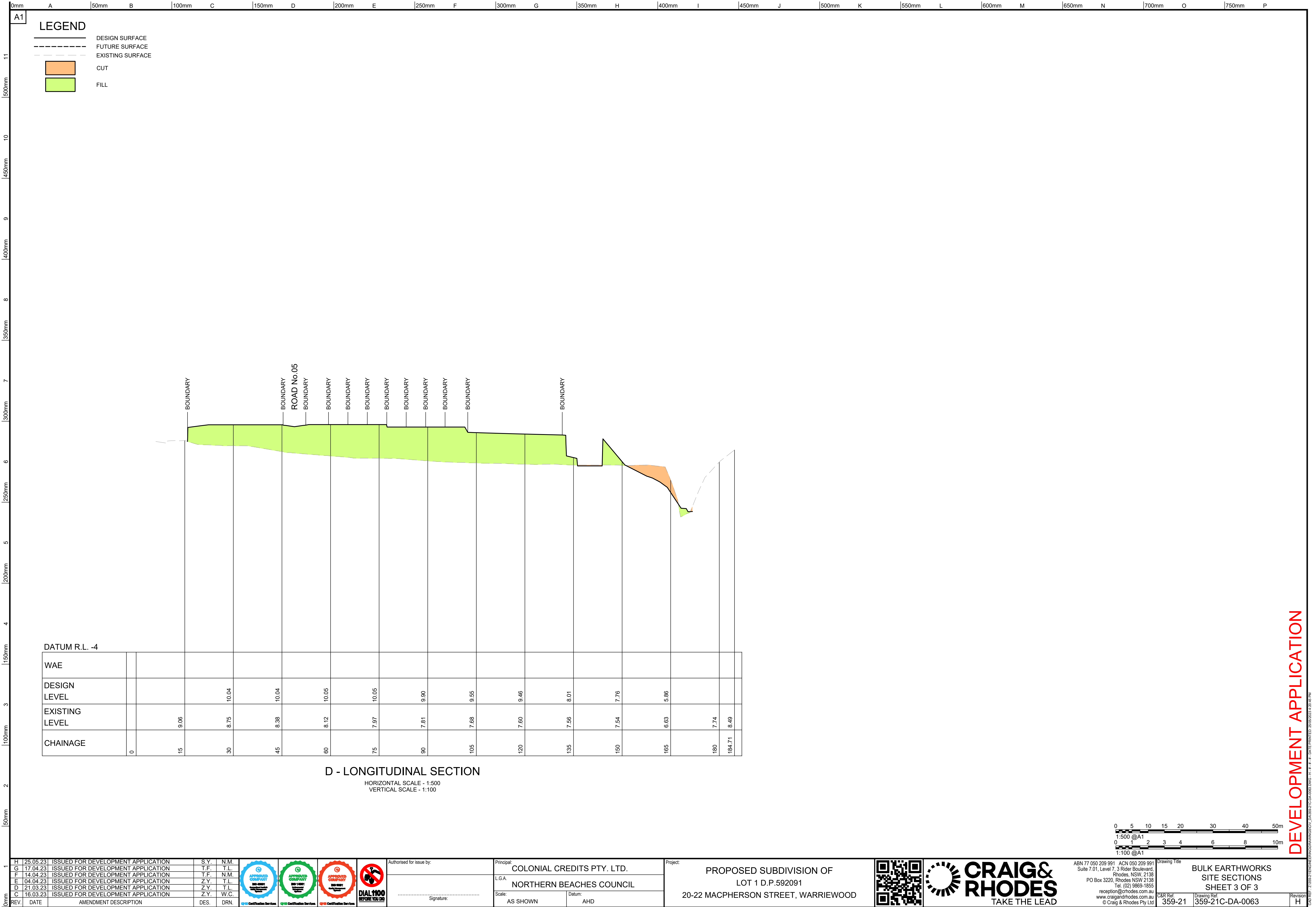
CRAIG & RHODES
TAKE THE LEAD

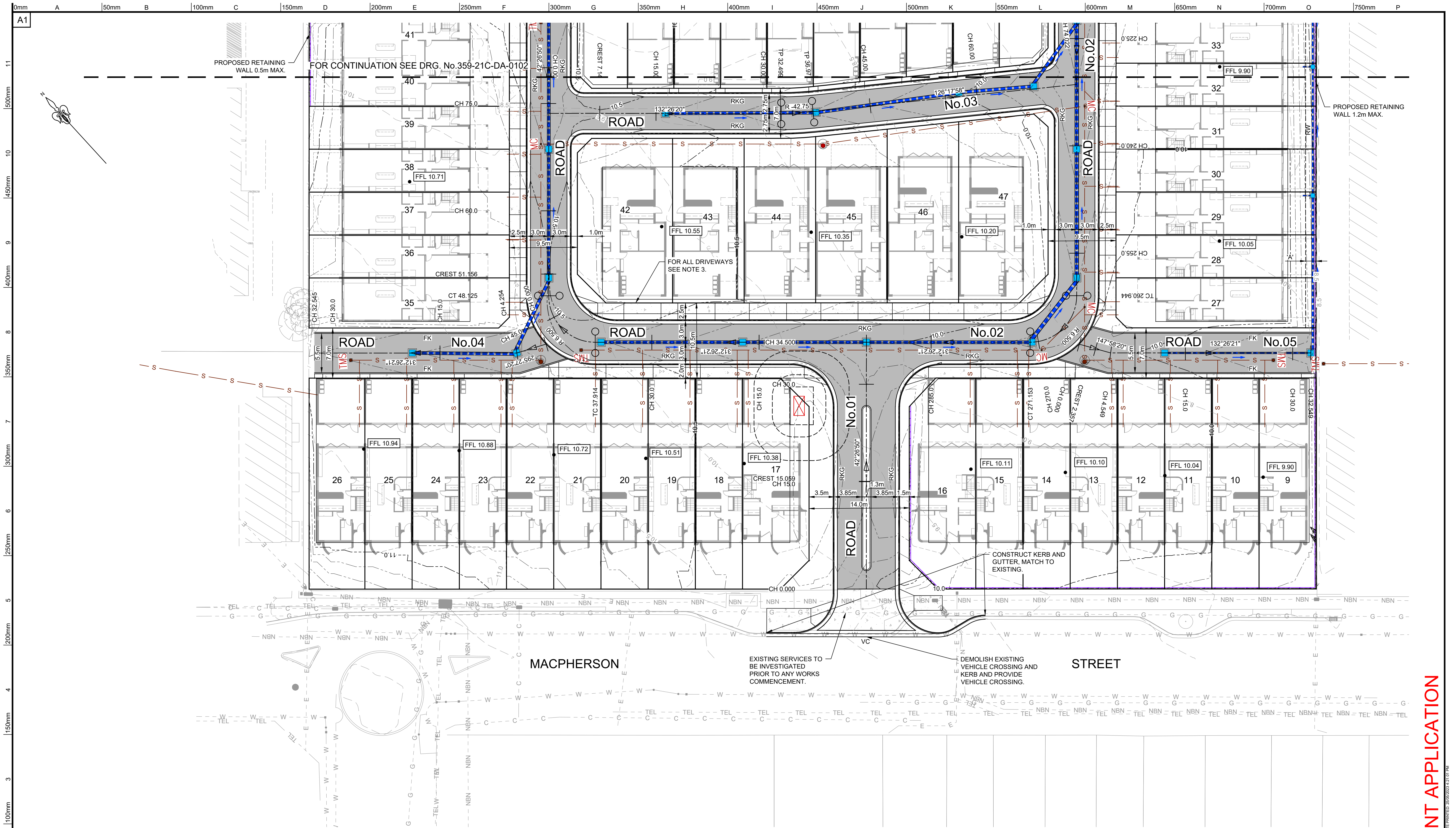
ABN 77 050 209 991 ACN 050 209 991
Suite 7.01, Level 7, 3 Rider Boulevard,
Rhodes NSW 2138
PO Box 3220, Rhodes NSW 2138
Tel. (02) 9669-1855
reception@crhodes.com.au
www.craigandrhodes.com.au
© Craig & Rhodes Pty Ltd

BULK EARTHWORKS SITE SECTIONS SHEET 1 OF 3	
C&R Ref: 359-21	Drawing Ref: 359-21C-DA-0061
Revision H	



DEVELOPMENT APPLICATION





- NOTE:**
- 1. REFER TO DRG. No.0003 FOR LEGEND & ABBREVIATION
 - 2. REFER TO NORTHERN BEACHES COUNCIL FOR STANDARD DETAIL DRAWINGS.
 - 3. ALL DRIVEWAY LOCATIONS SHOWN ARE INDICATIVE ONLY.
 - 4. STORMWATER DRAINAGE EASEMENT SIZES:
"A" = 1.5m WIDE STORMWATER DRAINAGE EASEMENT
 - 5. PROPOSED SEWER AND WATER AND ELECTRIC SUBSTATION SHOWN INDICATIVE ONLY REFER TO APPROVED PLANS PRIOR TO CONSTRUCTION.

PLAN
SCALE 1:250

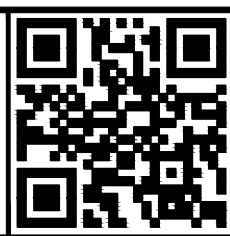
1	H 12.05.23	ISSUED FOR DEVELOPMENT APPLICATION	S.Y.	N.M.
	G 17.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	T.L.
	F 14.04.23	ISSUED FOR DEVELOPMENT APPLICATION	T.F.	N.M.
	E 04.04.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
	D 21.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	T.L.
	C 16.03.23	ISSUED FOR DEVELOPMENT APPLICATION	Z.Y.	W.C.
REV.	DATE	AMENDMENT DESCRIPTION	DES.	DRN.



Authorised for issue by:
Signature: _____

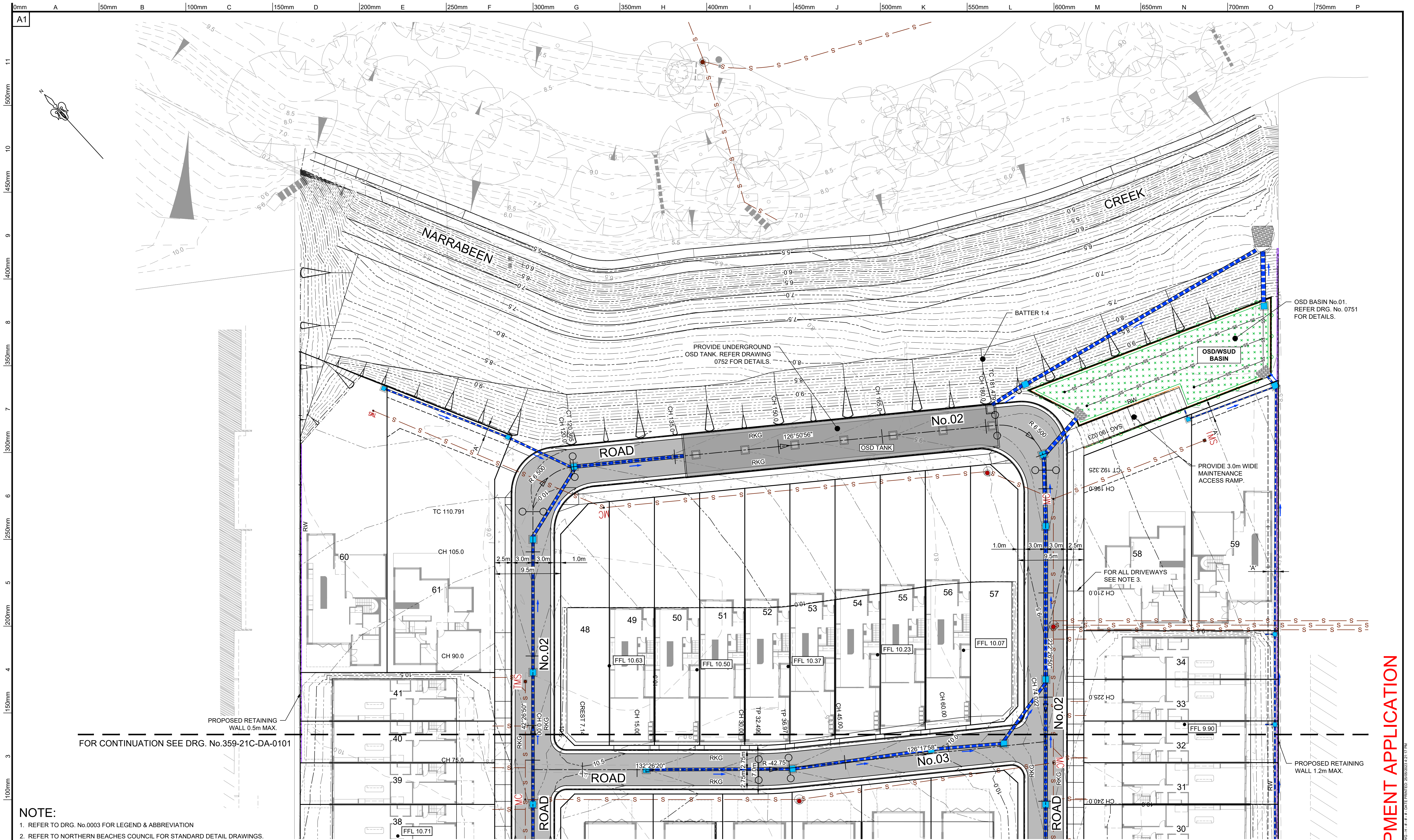
Principal:
COLONIAL CREDITS PTY. LTD.
L.G.A.
NORTHERN BEACHES COUNCIL
Scale: AS SHOWN
Datum: AHD

Project:
**PROPOSED SUBDIVISION OF
LOT 1 D.P.592091
20-22 MACPHERSON STREET, WARRIEWOOD**



ABN 77 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138 PO Box 3220, Rhodes NSW 2138 Tel: (02) 9665-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd	Drawing Title: ROAD AND DRAINAGE PLAN SHEET 1 OF 2	C&R Ref: 359-21	Drawing Ref: 359-21C-DA-0101	Revision: H
---	--	---------------------------	--	-----------------------

DEVELOPMENT APPLICATION



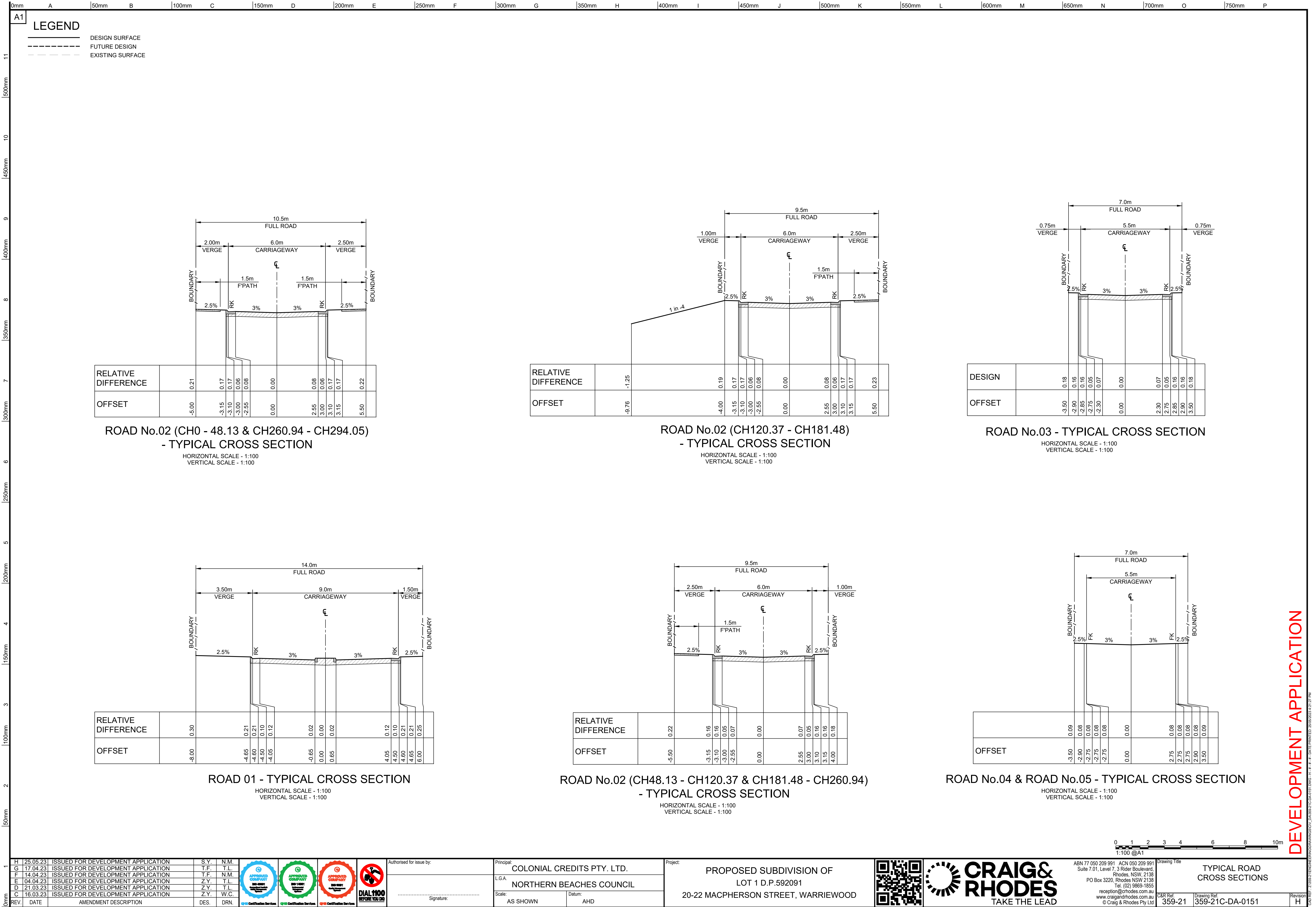
NOTE:

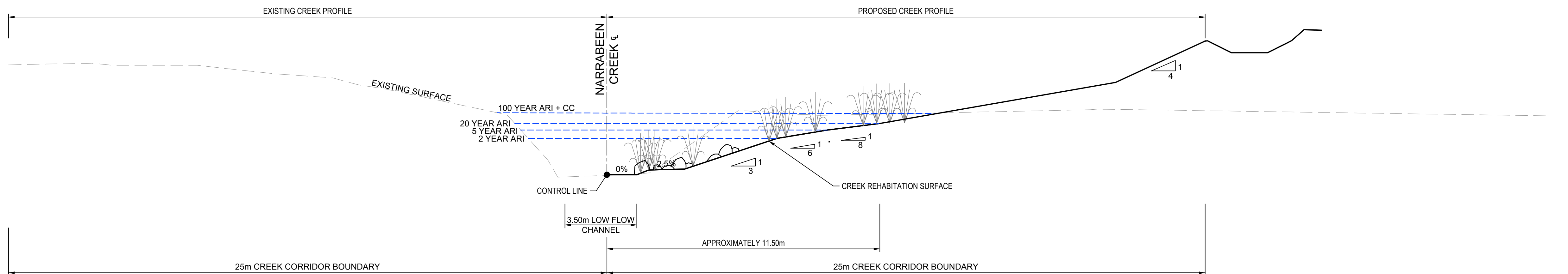
1. REFER TO DRG. No.0003 FOR LEGEND & ABBREVIATION
2. REFER TO NORTHERN BEACHES COUNCIL FOR STANDARD DETAIL DRAWINGS.
3. ALL DRIVEWAY LOCATIONS SHOWN ARE INDICATIVE ONLY.
4. STORMWATER DRAINAGE EASEMENT SIZES:
"A" = 1.5m WIDE STORMWATER DRAINAGE EASEMENT
5. PROPOSED SEWER AND WATER AND ELECTRIC SUBSTATION SHOWN INDICATIVE ONLY REFER TO APPROVED PLANS PRIOR TO CONSTRUCTION.

PLAN
SCALE 1:250

H 12.05.23 ISSUED FOR DEVELOPMENT APPLICATION S.Y. N.M.		APPROVED COMPANY		Authorised for issue by:		Principal: COLONIAL CREDITS PTY. LTD.		Project: PROPOSED SUBDIVISION OF LOT 1 D.P.592091		20-22 MACPHERSON STREET, WARRIEWOOD		CRAIG & RHODES TAKE THE LEAD		ASN 77 050 209 991 ACN 050 209 991 Suite 7.01, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138 PO Box 3220, Rhodes NSW 2138 Tel: (02) 9665-1855 reception@craigandrhodes.com.au www.craigandrhodes.com.au © Craig & Rhodes Pty Ltd		Drawing Title: ROAD AND DRAINAGE PLAN SHEET 2 OF 2		Revision H	
G 17.04.23 ISSUED FOR DEVELOPMENT APPLICATION T.F. T.L.		APPROVED COMPANY		Signature:		L.G.A. NORTHERN BEACHES COUNCIL		Scale: AS SHOWN		Datum: AHD				C&R Ref. 359-21		Drawing Ref. 359-21C-DA-0102			
F 14.04.23 ISSUED FOR DEVELOPMENT APPLICATION T.F. N.M.		APPROVED COMPANY																	
E 04.04.23 ISSUED FOR DEVELOPMENT APPLICATION Z.Y. T.L.		APPROVED COMPANY																	
D 21.03.23 ISSUED FOR DEVELOPMENT APPLICATION Z.Y. T.L.		APPROVED COMPANY																	
C 16.03.23 ISSUED FOR DEVELOPMENT APPLICATION Z.Y. W.C.		APPROVED COMPANY																	
REV.	DATE	AMENDMENT DESCRIPTION				DES.	DRN.												

DEVELOPMENT APPLICATION

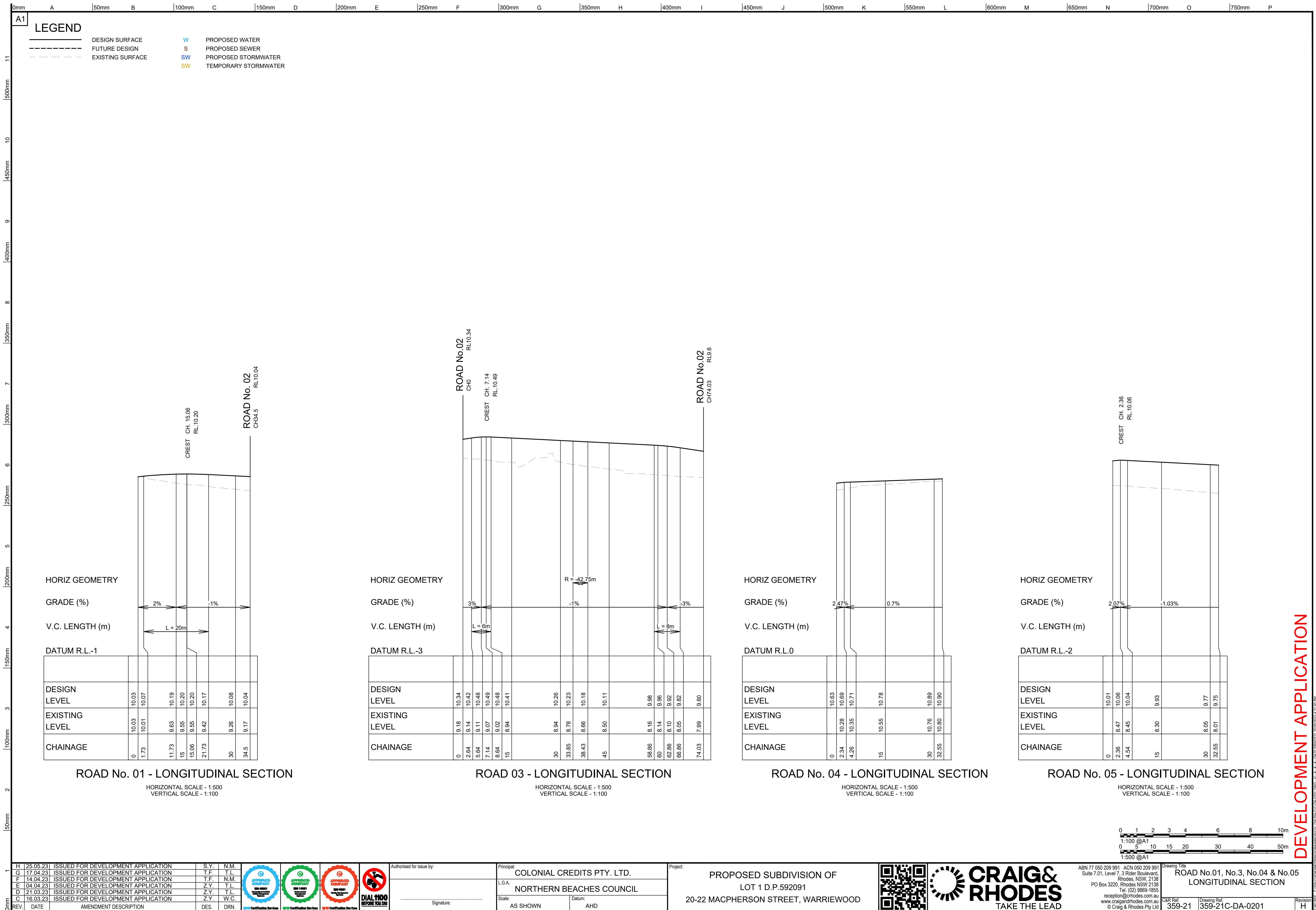


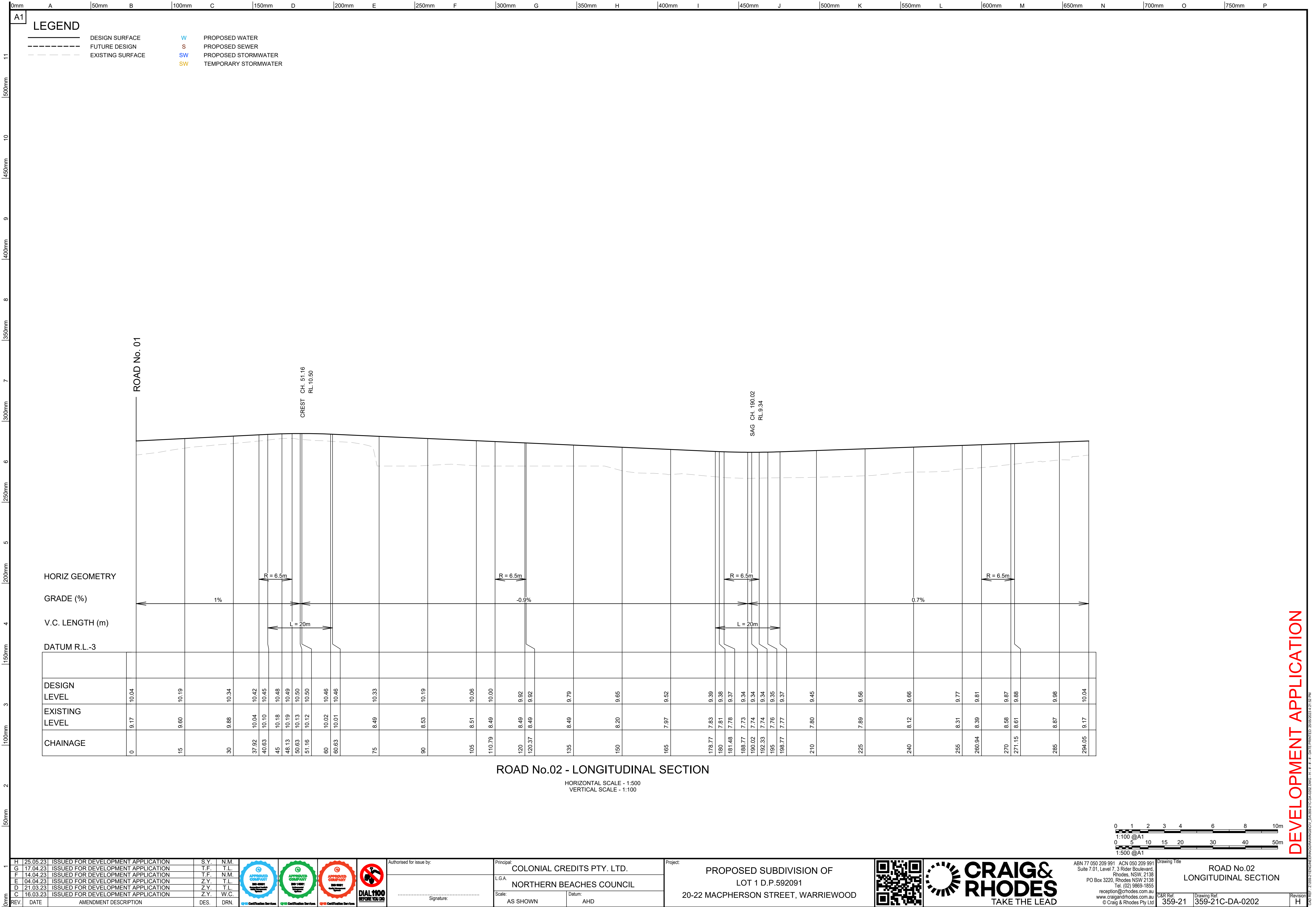


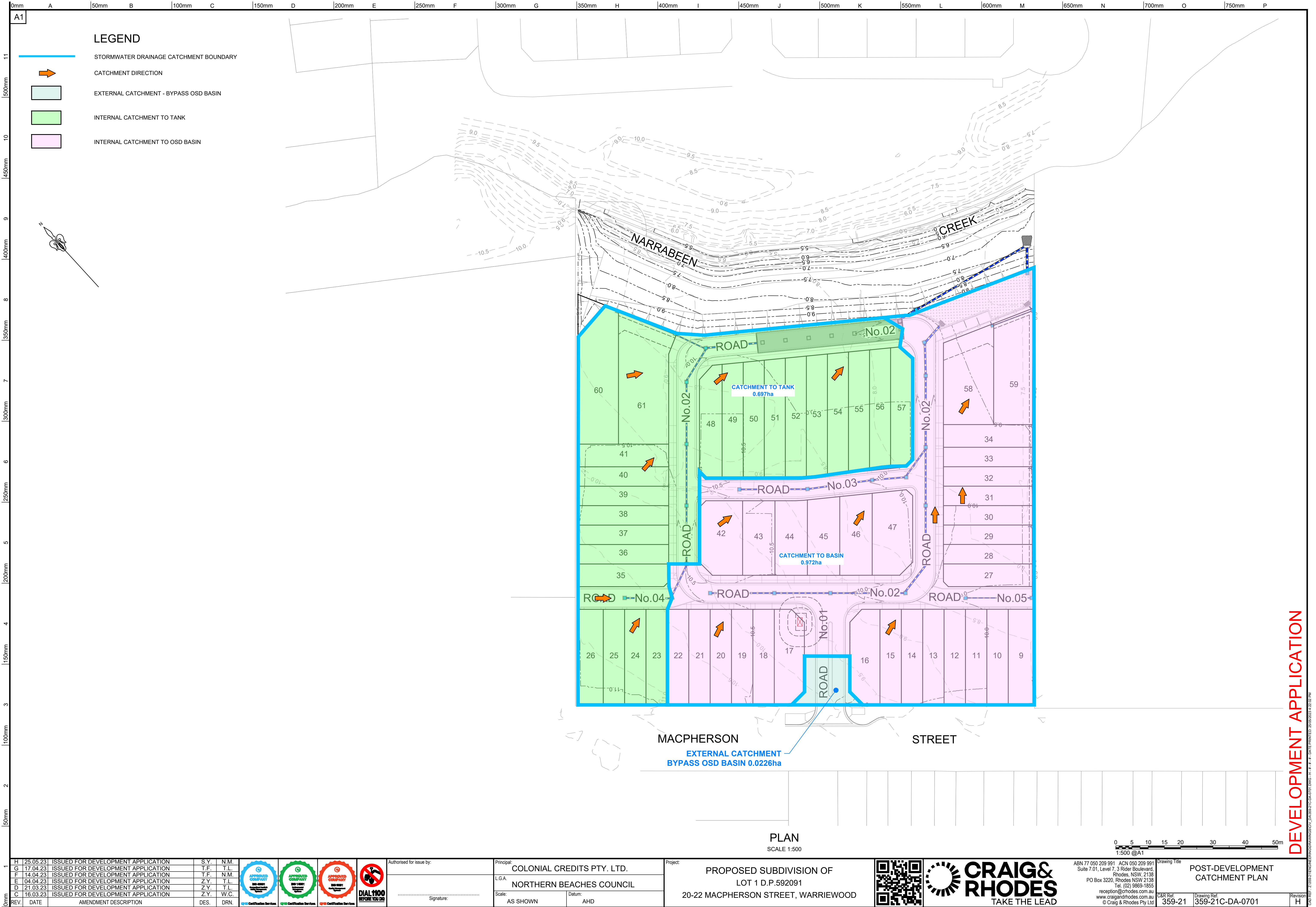
TYPICAL NARRABEEN CREEK SECTION

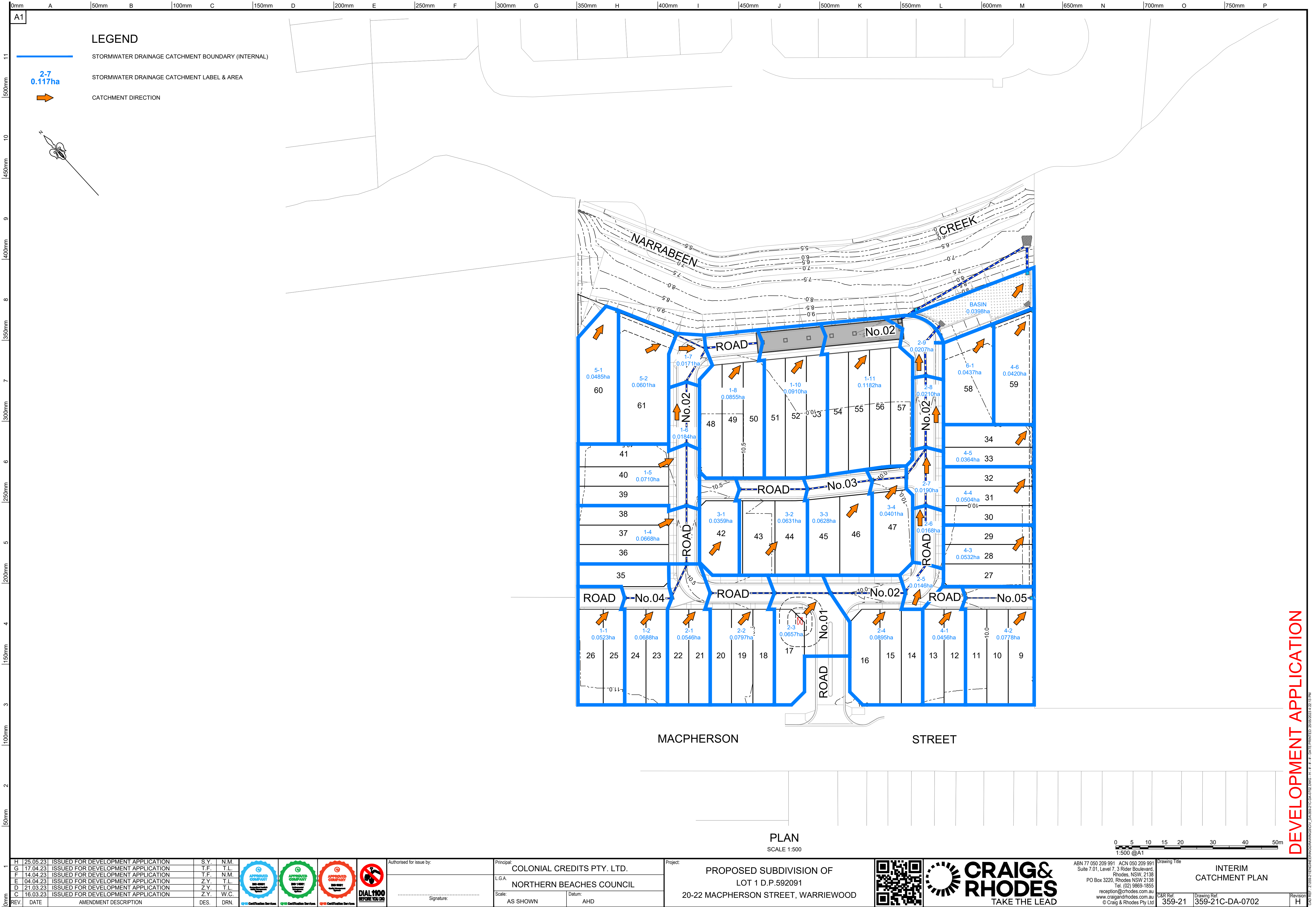
[illegible]

DEVELOPMENT APPLICATION

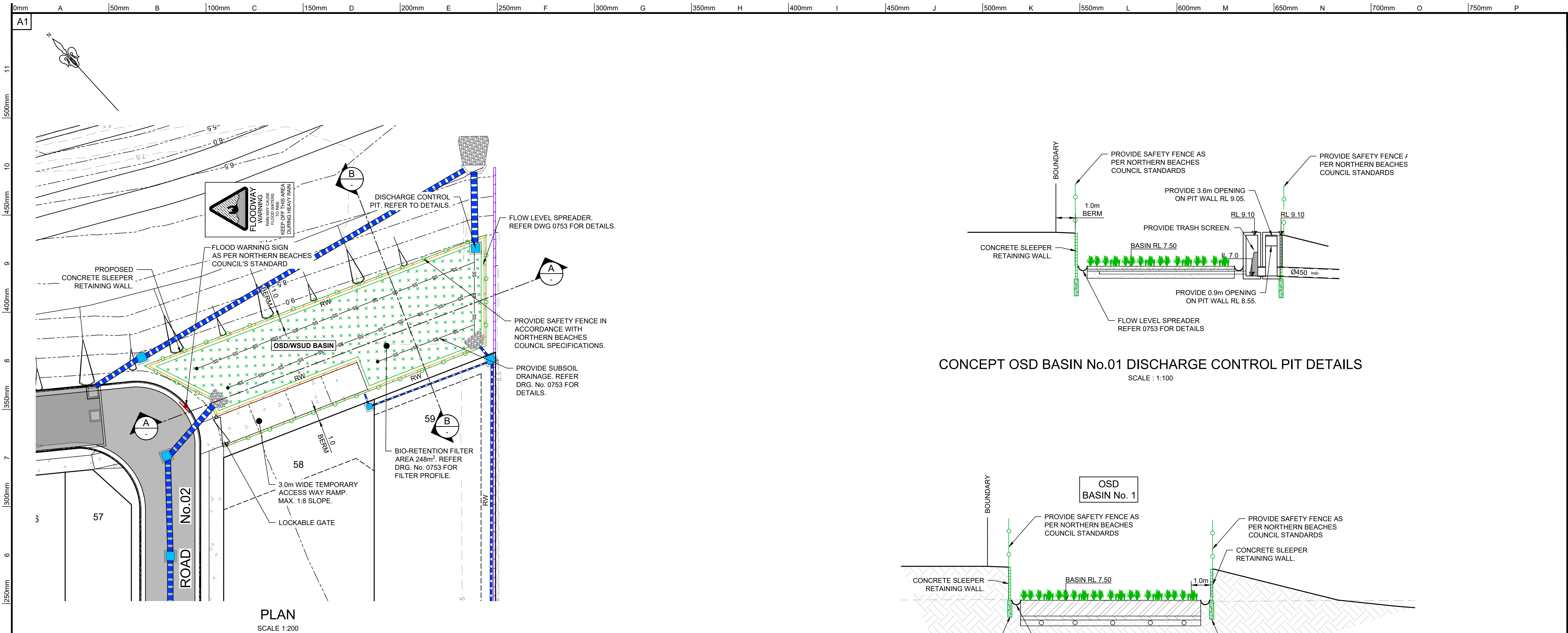






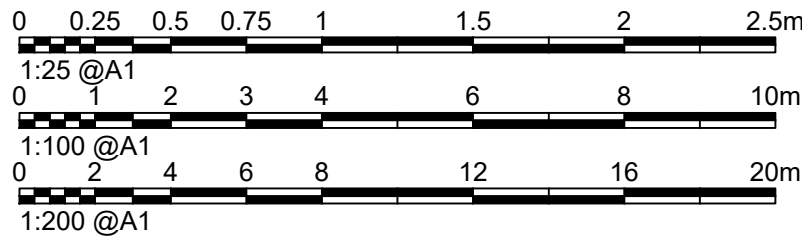
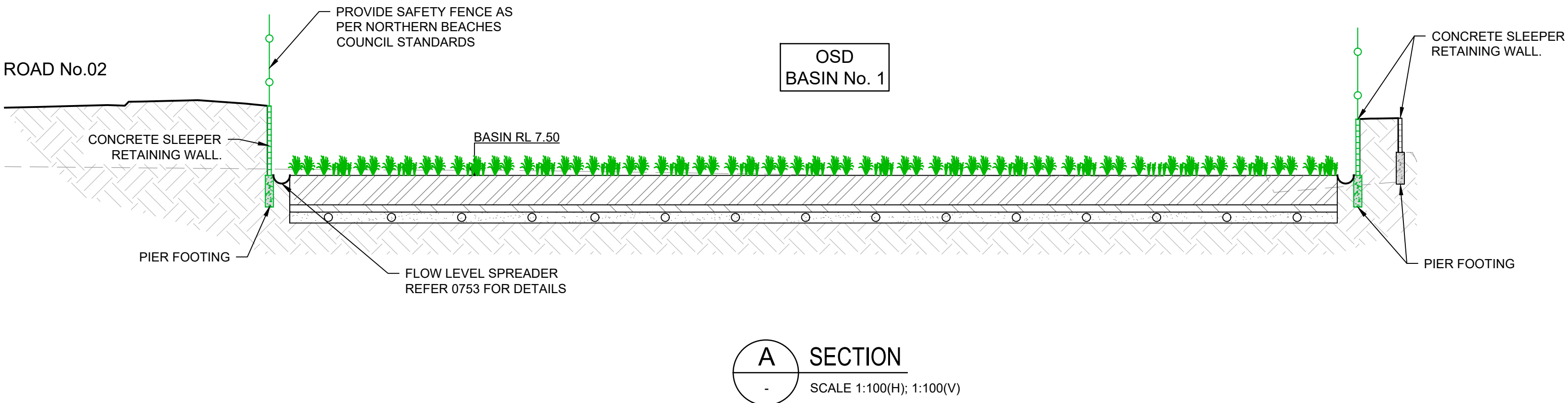
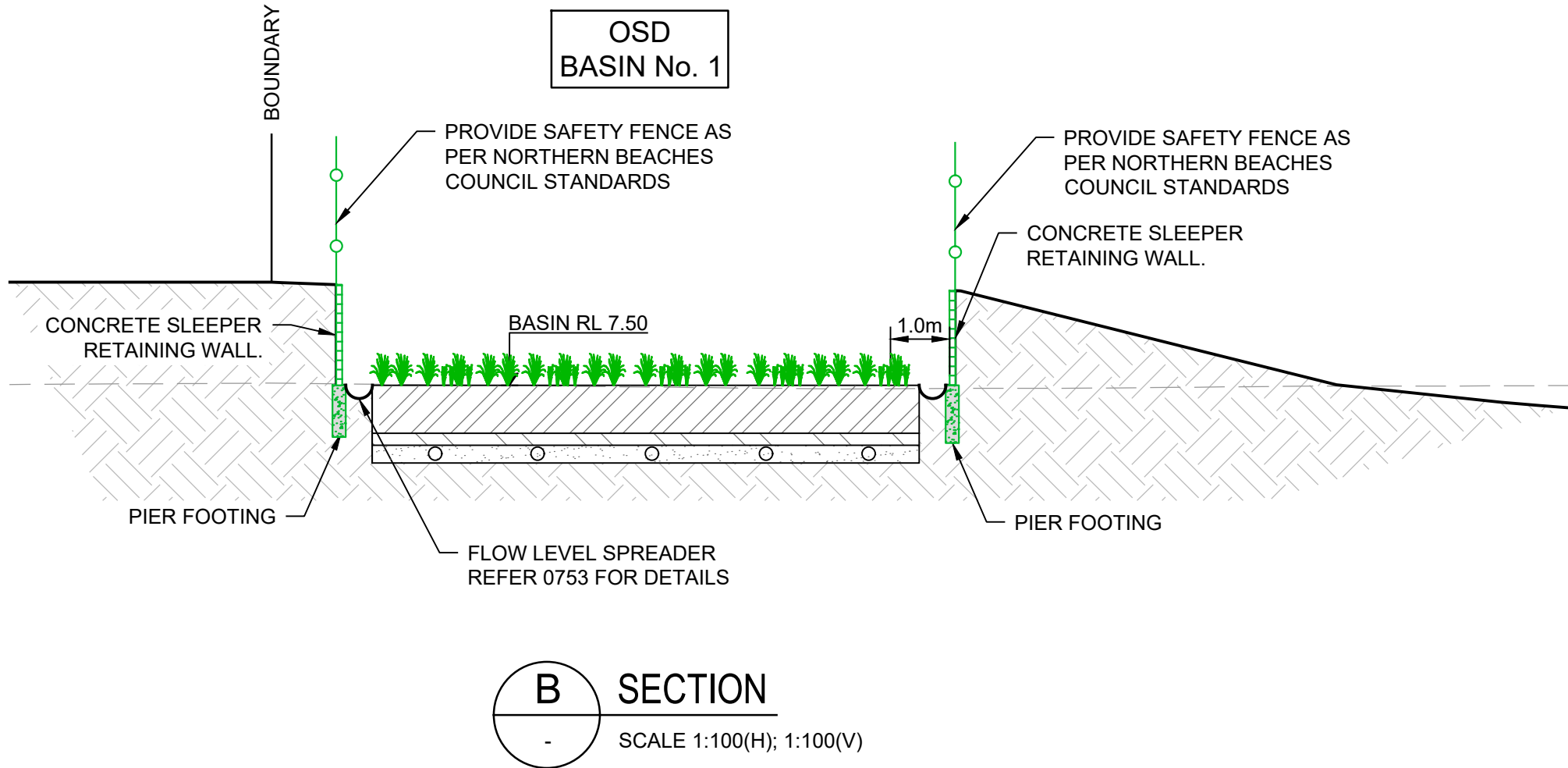


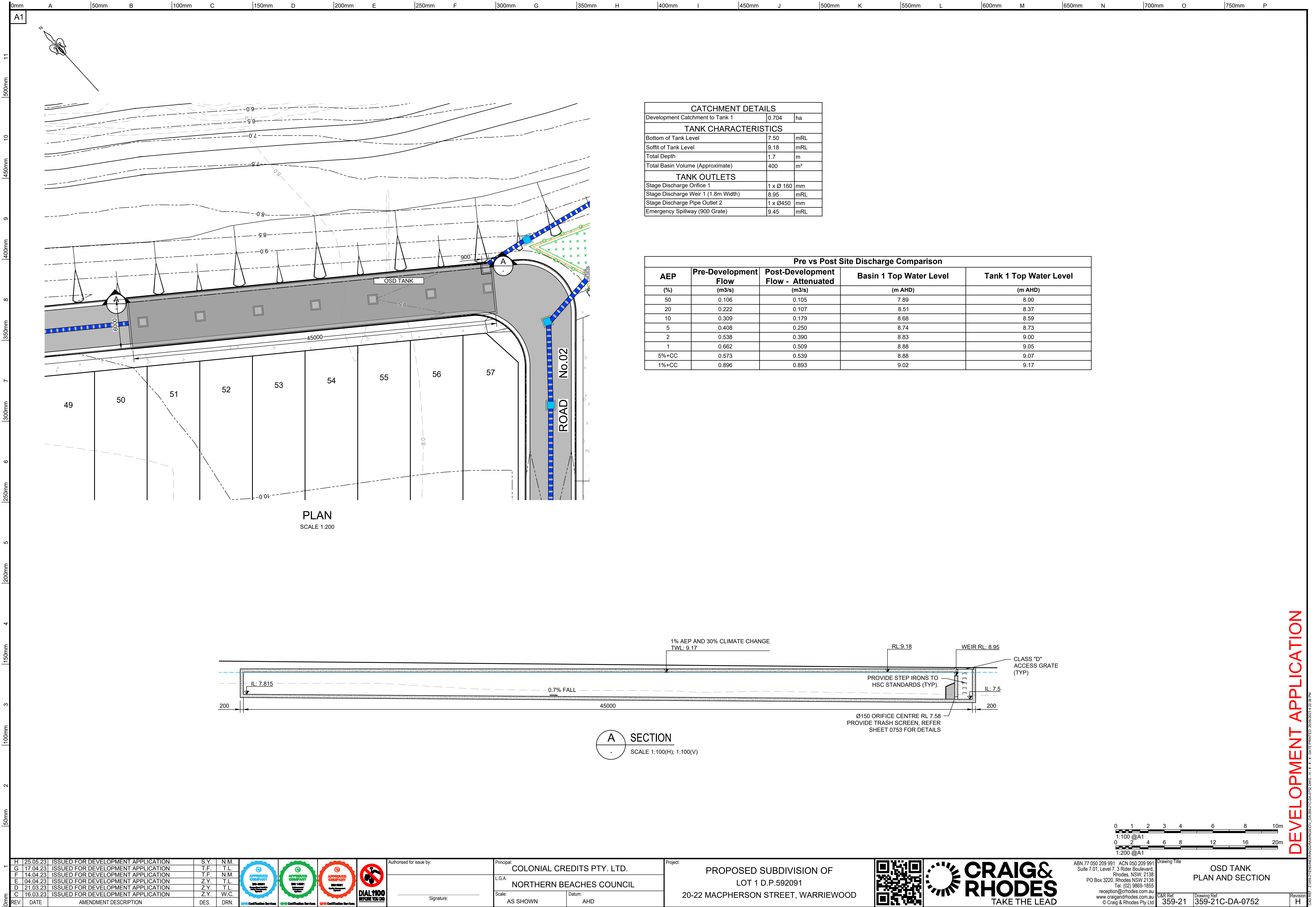
DEVELOPMENT APPLICATION



CATCHMENT DETAILS		
Development Catchment to Basin 1	0.972	ha
BASIN CHARACTERISTICS		
Bottom of Basin Level	7.50	mRL
Top of Berm Level	9.10	mRL
Total Depth	1.6	m
Total Basin Volume (Approximate)	470	m³
BASIN OUTLETS		
Stage Discharge Orifice 1	1 x Ø 195	mm
Stage Discharge Weir 1 (0.9m Width)	8.55	mRL
Stage Discharge Weir 2 (3.6m Width)	9.05	mRL
Stage Discharge Pipe Outlet 2	1 x Ø450	mm
Emergency Spillway (5m Width)	9.10	mRL

CONCEPT OSD BASIN No.01 DISCHARGE CONTROL PIT DETAILS
SCALE : 1:100





DEVELOPMENT APPLICATION

