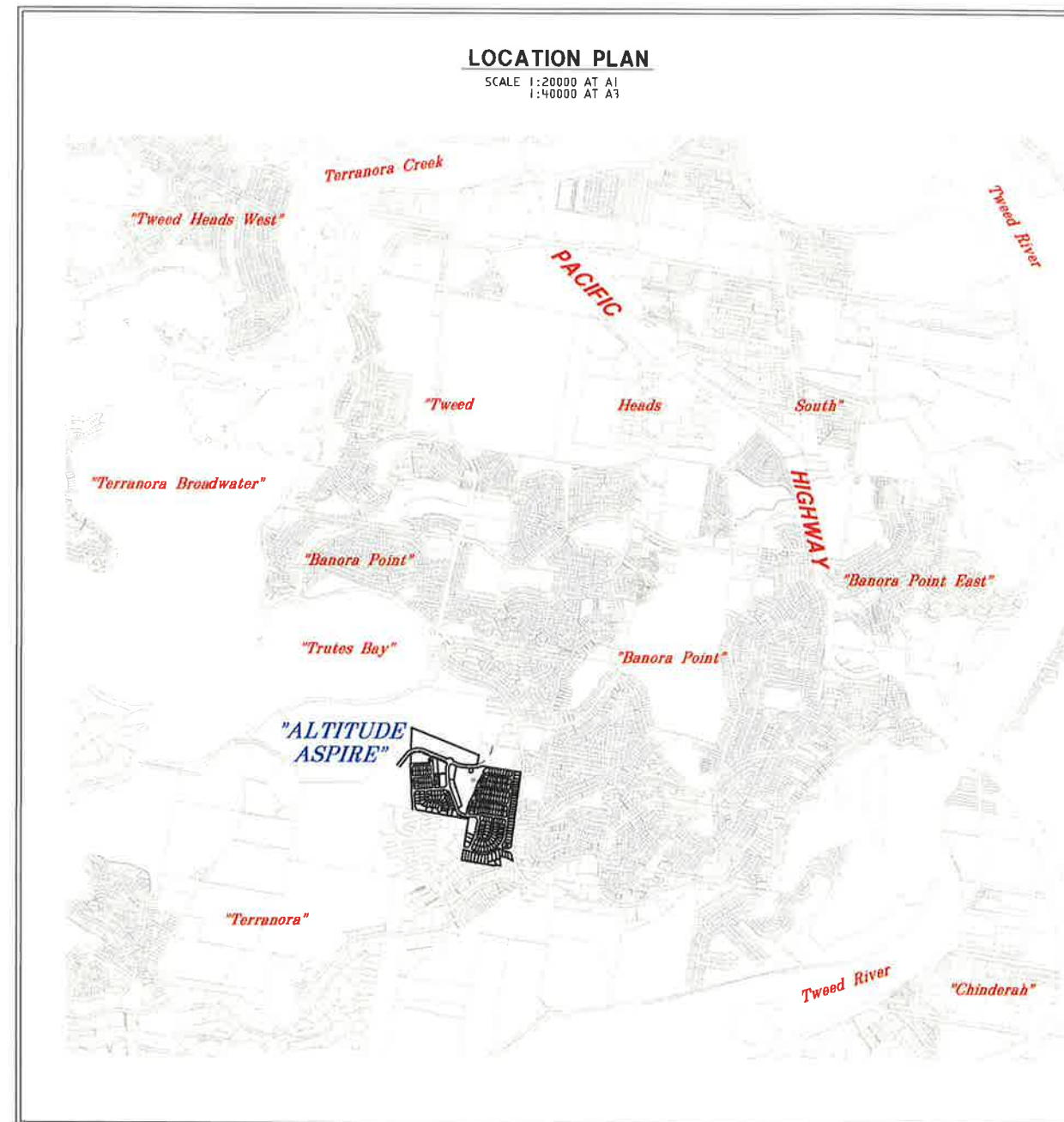
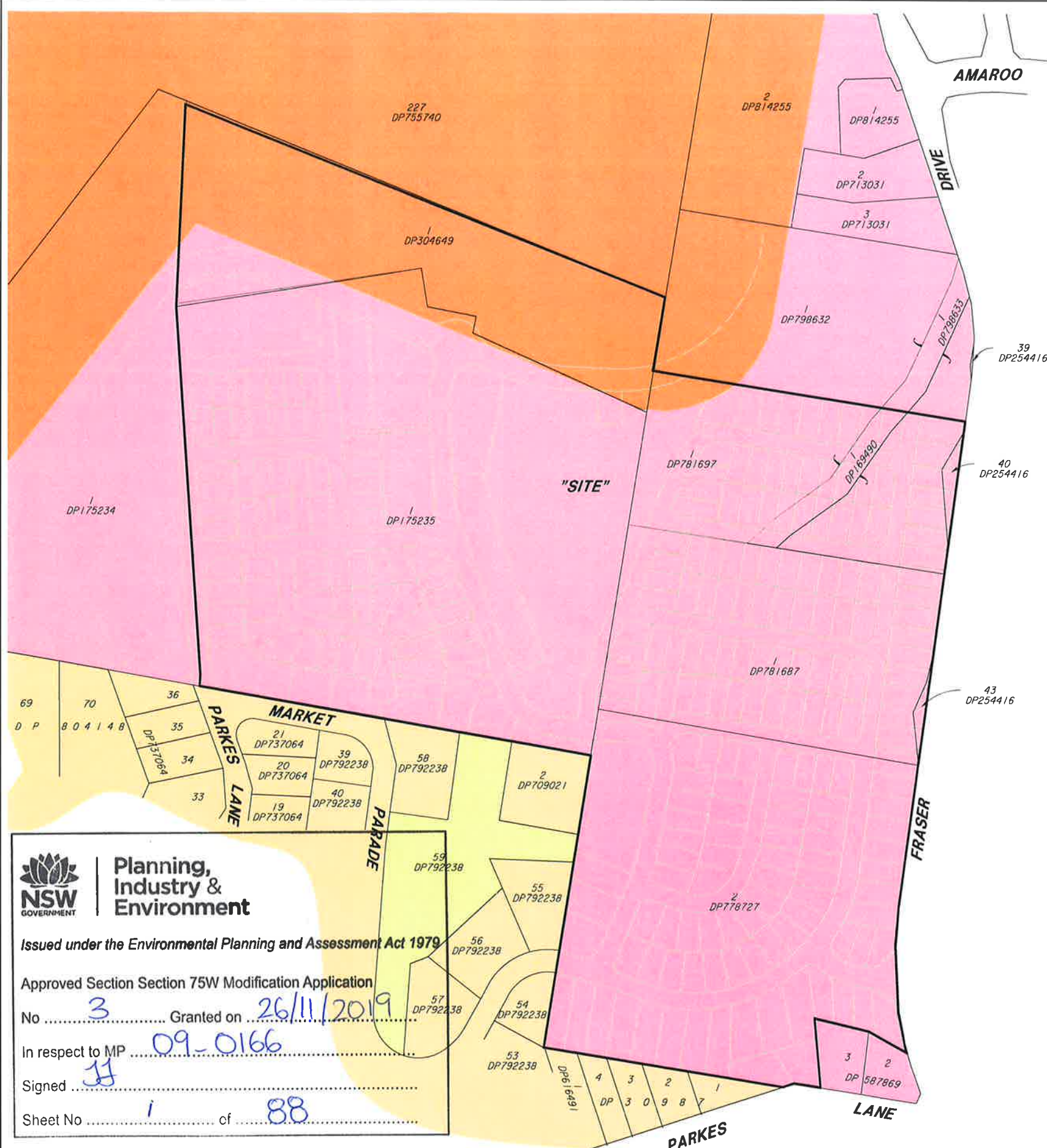




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Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed [Signature]

Sheet No 1 of 88

PLAN SHOWING EXISTING
PROPERTY DESCRIPTIONS &
TWEED LOCAL ENVIRONMENTAL
PLAN 2000 & 2014 - ZONINGS

Scale in Metres - 1:2000 AT A1

BRADLEES CONSULTING ENGINEERS

IMPORTANT NOTES :
THE ZONE INFORMATION SHOWN HEREON HAS BEEN
COMPILED FROM TWEED SHIRE COUNCIL ZONE MAP
NO. 14

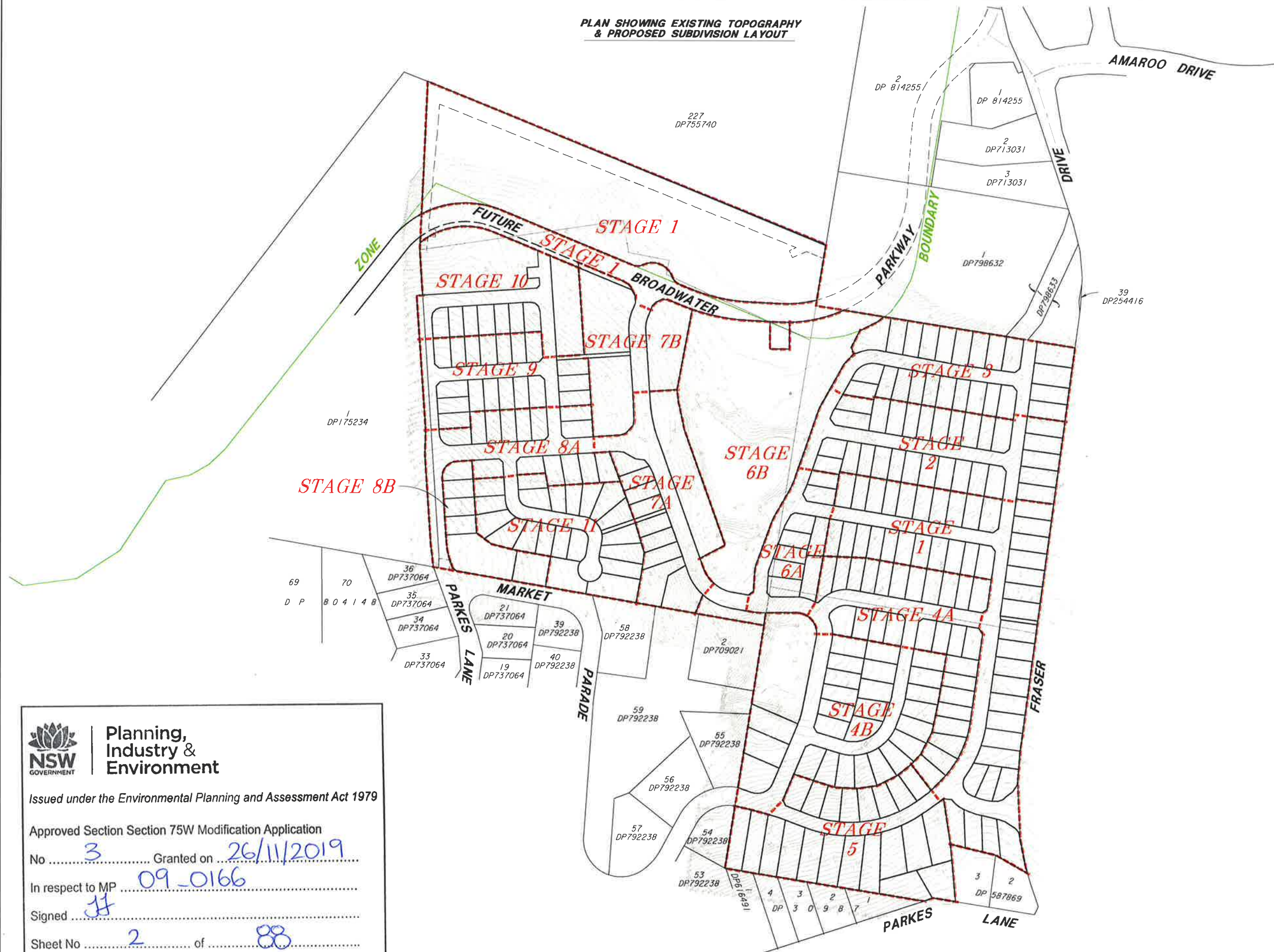
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LOT 2 IN DP778727, LOT 1 IN DP781687,
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LOTS 40 & 43 IN DP254416
FOR NEWLAND DEVELOPERS PTY LTD
Parish of TERRANORA County of ROUS
P:\TERRANORA\Projects\18779 B 0 pro
SCALE 1:2000 AT A1 1:4000 AT A3
Level DATUM F M L M D M R M P
Chk # BDR

B & P SURVEYS
CONSULTING SURVEYORS
142 MURWILLUMBAH STREET
MURWILLUMBAH
NSW 2484 Australia
Telephone (02) 556721924
Facsimile (02) 66722618
Email mb@bpcsurveys.com.au Homepage
www.bpcsurveys.com.au
Office: Albury: 02 55980370
Tweed Heads: 02 55536511
REF: No DATE DRAWING No/Size Sheet Of Rev
T15263 19-1-2012 18779 B 1 8 0



PLAN SHOWING EXISTING TOPOGRAPHY
& PROPOSED SUBDIVISION LAYOUT



Planning,
Industry &
Environment

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Signed [Signature]

Sheet No 2 of 88



Rev. D 13-3-19 Lot 101/610 & 713 amended
Rev. N 15-5-18 Stages 8A/8B added Stage 12 removed
Rev. M 14-2-18 Stage 6 amended/split
Rev. L 29-1-18 Staging amended/Lot numbers amended
Rev. K 8-11-17 Lots 707-712, 801, 802, 811, 812 Amended
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Rev. H 14-9-15 Entry Road and Lots Amended/Lot 501
Rev. G 12-2-15 Zoning updated
Rev. F 3-2-15 Res. Lot removed, Entry Lots amended
Rev. E 12-6-14 Truncations / Lots 815-817 & 832
Rev. D 16-7-13 Layout amended
Revision
Associate Consultant:
BRADLEES CONSULTING ENGINEERS

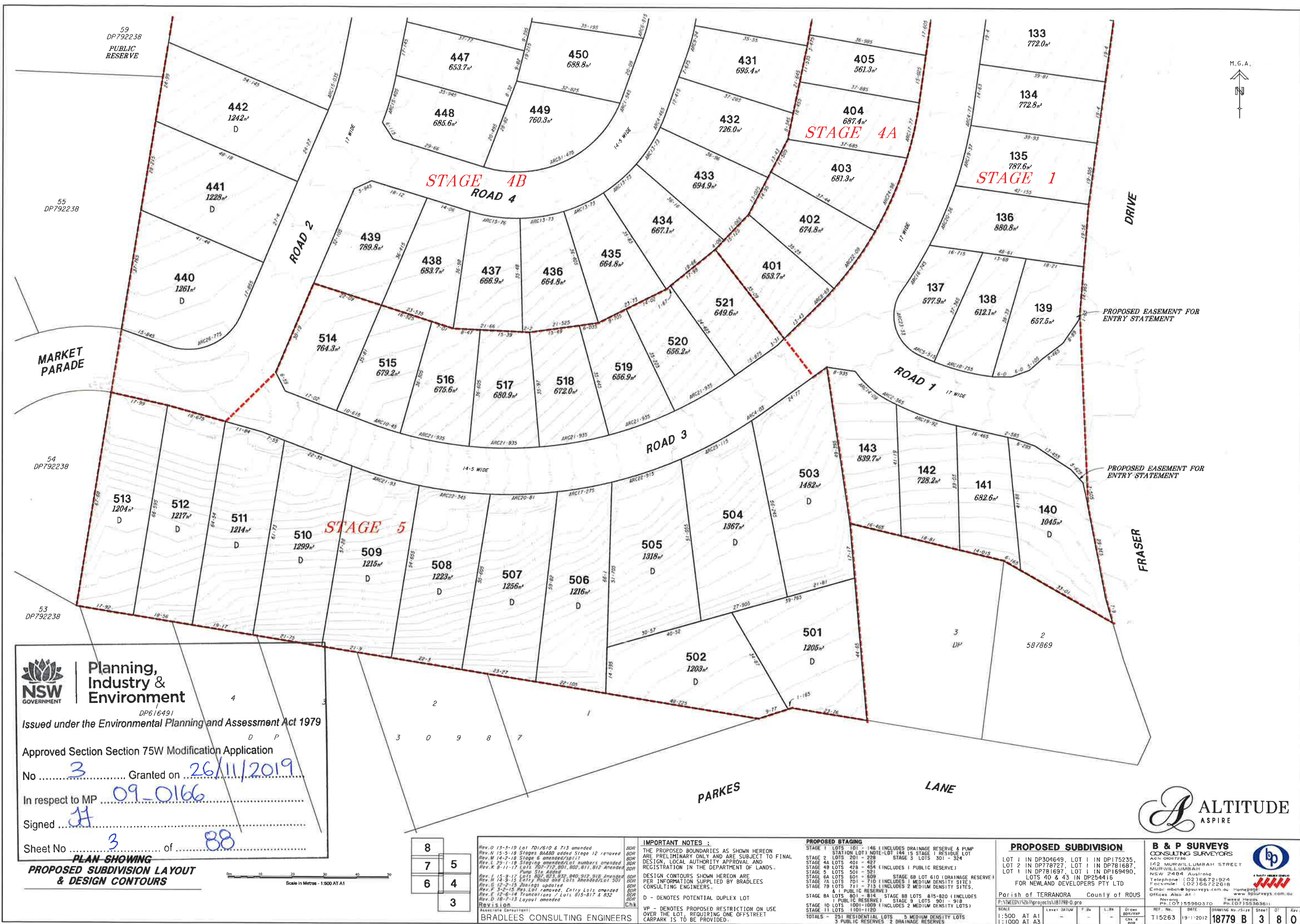
IMPORTANT NOTES:
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FOR NEWLAND DEVELOPERS PTY LTD
Parish of TERRANORA County of ROUS
P:\MCD\New\Projects\181770-0.pro
SCALE 1:2000 AT A1
1:4000 AT A3

ALTITUDE
ASPIRE

B & P SURVEYS
CONSULTING SURVEYORS
142 MURWILLUMBAH STREET
MURWILLUMBAH
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Facsimile: (02) 566722618
Email: mbah@bpsurveys.com.au Homepage: www.bpsurveys.com.au
Office: Also At
Nerang
PR.(07) 55860370
Tweed Heads
PH.(07) 55563611
REF No: T15263
DATE: 19-1-2012
DRAWING No: 181770-0
Sheet: 2 of 8
Rev: 0





NSW GOVERNMENT
Planning, Industry & Environment

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In respect of DP792238

Signed [Signature]

Sheet No 4 of 88

454
6030m²
PROPOSED PUBLIC RESERVE

8	5
7	4
6	3

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Parish of TERRANORA County of ROUS

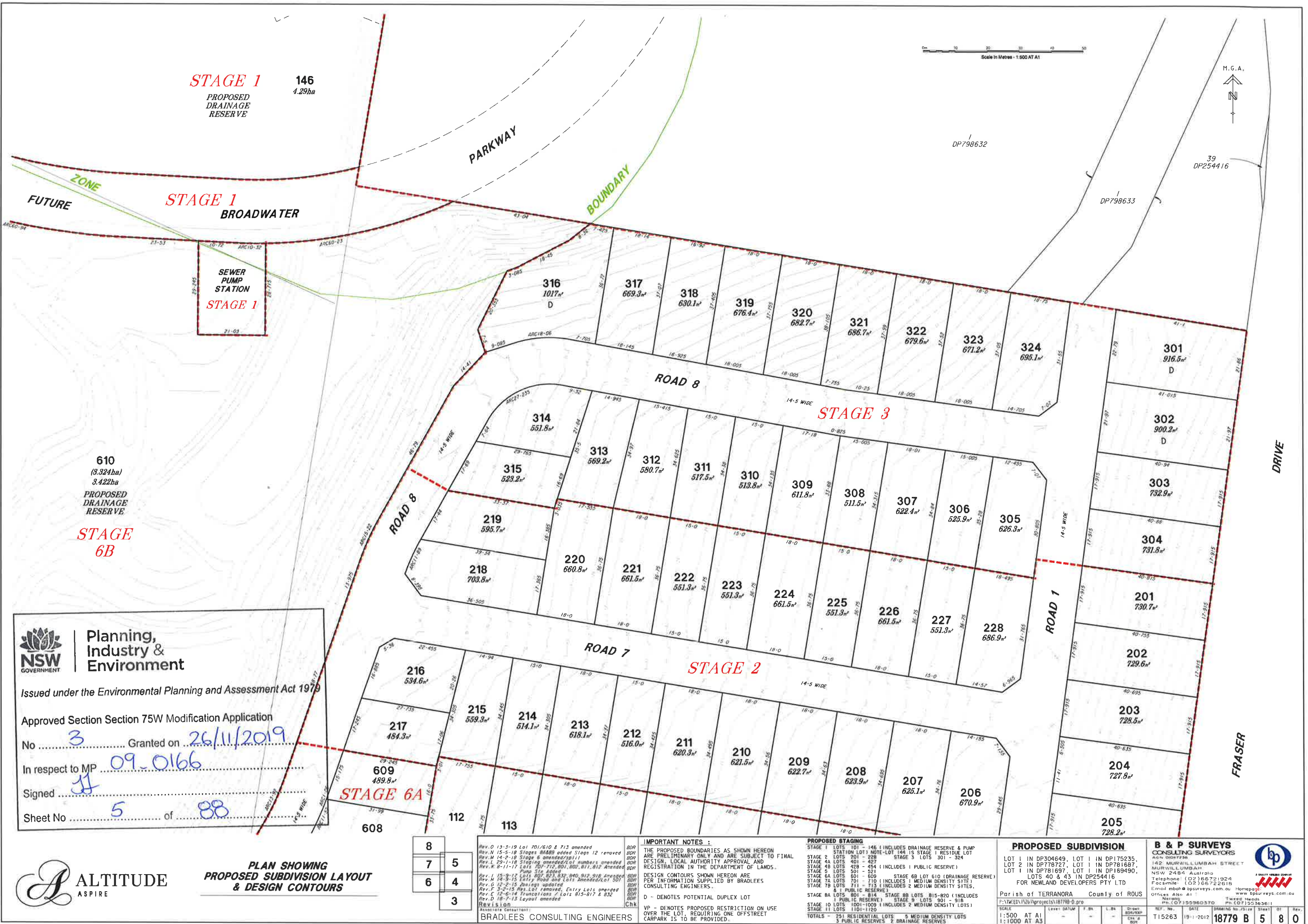
Scale: 1:500 AT A1, 1:1000 AT A3

B & P SURVEYS
CONSULTING SURVEYORS

142 MURWILLUMBAH STREET
MURWILLUMBAH
NSW 2484 Australia
Telephone: (02) 66721924
Facsimile: (02) 66722618
Email: mbp@bpsurveys.com.au

ALTITUDE ASPIRE

**PLAN SHOWING
PROPOSED SUBDIVISION LAYOUT
& DESIGN CONTOURS**



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In respect to MP 09-0166

Signed [Signature]

Sheet No 5 of 88



PLAN SHOWING
PROPOSED SUBDIVISION LAYOUT
& DESIGN CONTOURS

8	5
7	4
6	3

Rev. 0 13-3-19 Lot 701/610 & 713 amended
Rev. 1 15-5-18 Stages 6A&B added Stage 12 removed
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Rev. 4 8-11-17 Lots 207-712, 801, 802, 811, 812 Amended
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Rev. 8 3-2-15 Res. Lot removed, Entry Lots amended
Rev. 9 12-6-14 Truncations & Lots 815-817 & 832
Rev. 10 16-7-13 Layout amended

Revised
Associate Consultant:
BRADLEES CONSULTING ENGINEERS

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FOR NEWLAND DEVELOPERS PTY LTD

Parish of TERRANORA County of ROUS

PAVING: 1/26/19/2019/18779-B.D.P.P.

SCALE: 1:500 AT A1 1:1000 AT A3

Level: DATUM F.S.A. L.S.A. DRAINAGE: 1:500 CH. 6 D.P.

REV. No. DATE

T15263 19-11-2012 18779 B 5 8 0

B & P SURVEYS CONSULTING SURVEYORS

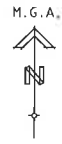
142-2 MURWILLUMBAH STREET MURWILLUMBAH NSW 2484 Australia

Telephone: (02) 66721924 Facsimile: (02) 66722618 Email: mbob@bpcsurveys.com.au Homepage: www.bpcsurveys.com.au

Offices Also At: Tweed Heads Ph: (07) 55960370

NEW, No. DATE

18779 B 5 8 0



Planning,
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In respect to MP 09-0166

Signed H

Sheet No 6 of 88



PLAN SHOWING
PROPOSED SUBDIVISION LAYOUT
& DESIGN CONTOURS

8	
7	5
6	4
	3

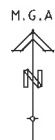
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Rev. 7 3-2-15 Res. Lot removed, Entry Lots amended
Rev. 8 12-8-14 Truncated/Truncated/Truncated/Truncated
Rev. 9 18-7-13 Layout amended
Revision
Associate Consultant:
BRADLEES CONSULTING ENGINEERS

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Telephone: (02) 66721924
Facsimile: (02) 66722516
Email: mbsh@bpsurveys.com.au
Office: Also At
Newang
PH: (07) 55560370
www.bpsurveys.com.au
Tweed Heads
PH: (07) 55563611
REF: No. DATE DRAWING No. / 5: 22 Sheet 01 Rev
T15263 19-1-2012 18779 B 6 8 0



DP175234



**PLAN SHOWING
PROPOSED SUBDIVISION LAYOUT
& DESIGN CONTOURS**

Scale in Metres 1:500 AT A1

8	5
7	4
6	4
3	

Rev. 0 13-3-19 Lot 701/610 & 713 amended
Rev. 1 15-5-18 Stages 8A&8B added Stage 12 removed
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Rev. 6 14-9-15 Entry Road and Lots Amended/Lot 501
Rev. 7 12-2-15 Jurisprudence updated
Rev. 8 3-2-15 Res. Lot removed, Entry Lots amended
Rev. 9 12-9-14 Transitions 2 Lots 815-817 & 832
Rev. 10 18-7-13 Layout amended
Revision
Associate Consultant:
BRADLEES CONSULTING ENGINEERS

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FOR NEWLAND DEVELOPERS PTY LTD
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P:\NEWLAND\Subdivisions\18779-0.dwg
SCALE Level DATUM F.M.S. 1:500 AT A1
1:1000 AT A3

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CONSULTING SURVEYORS
ACN 0047236
142 MURWILLUMBAH STREET
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Rev. No. DATE DRAWING No./Size Sheet 01 Rev.
T15263 19-1-2012 18779 B 7 8 0





**Planning,
Industry &
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In respect to MP 09-0166

Signed JB

Sheet No 7 of 88



Planning,
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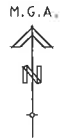
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Signed H

Sheet No. 8 of 88



Scale in Metres - 1:600 AT A1

227
DP755740

STAGE 1

PROPOSED
DRAINAGE
RESERVE

146
4.29ha

FUTURE

PROPOSED
LANDSCAPE
BUFFER

BROADWATER

STAGE 1

BOUNDARY

PARKWAY

STAGE 7B

1009
7535m²

1008
2997m²

713

ROAD 12

ROAD 13
1/3 WIDE

STAGE 10

14.5 WIDE



PLAN SHOWING
PROPOSED SUBDIVISION LAYOUT
& DESIGN CONTOURS

8	5
7	4
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Revision
Associate Consultant:
BRADLEES CONSULTING ENGINEERS

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FOR NEWLAND DEVELOPERS PTY LTD

Parish of TERRANORA County of ROUS

1:500 AT A1
1:1000 AT A3

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Ph: (07) 55536361



QUALITY ASSURED COMPANY

1:500 AT A1
1:1000 AT A3

REF: No. T15263 DATE 19-1-2012 DRAWING No./Size 18779 B Sheet 8 of 8 Rev. 0



Planning, Industry & Environment
NSW GOVERNMENT

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Sheet No 9 of 88

STRUCTURAL SYSTEM PLAN

SLOPE TYPE	INDICATIVE STRUCTURAL SYSTEM	YIELD
FLAT 0-4%		
0-7%	SINGLE SLAB ON GROUND*	18 (7.03%)**
7-10%	STEPPED SLAB ON GROUND*	22 (8.59%)**
MODERATE 10-12%		
10-14%	STEPPED SLAB ON GROUND*	86 (33.6%)**
14-18%	SPLIT LEVEL*	40 (15.6%)**
18-21%	SLAB AND SUSPENDED FLOOR*	19 (7.4%)**
STEEP 22-36.3%		
21-25%	PART SLAB, PART PLATFORM*	36 (14.1%)**
25-28%	PART SLAB, PART PLATFORM*	7 (2.73%)**
28-32%	POLE DESIGN, PLATFORM SYSTEM OR SPLIT LEVEL*	23 (8.98%)**
EXTREME >32%		
32-36%	POLE DESIGN, PLATFORM SYSTEM OR SPLIT LEVEL*	1 (0.39%)**
> 36%	POLE DESIGN, PLATFORM SYSTEM OR SPLIT LEVEL*	4 (1.59%)**

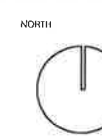
251 LOTS (100%)

*Refer Figure 4.7 of Section B24 for detailed description of indicative building types
**Percentage figure is based on dwelling numbers

CLIENT:
NEWLAND DEVELOPERS

DRAWING
STRUCTURAL SYSTEM PLAN
PROJECT NUMBER
130300
SCALE
1:4000@A3
DATE
AUGUST 2014

DRAWING NUMBER
SK.0002
ISSUE
1 - 29.06.2018



LOCAL OFFICE
ARCHITECTURE

PO Box 200
TUGUN QLD 4224
m. 0400 904 107
e. cameron@local-office.com.au



- 1 ENTRY PRECINCT
- 2 COMMUNITY PARK NODE
- 3 POCKET PARK
- 4 FLOODPLAIN GRASSLANDS
- 5 DRAINAGE CORRIDOR
- 6 FRASER DRIVE ENTRY
- 7 Q100

NOTE: STREET TREE LOCATIONS ARE FOR INDICATIVE PURPOSES ONLY.



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Sheet No 10 of 88

Note : Tree locations are indicative only, review to occur at Construction Certificate Phase.

LANDSCAPE MASTERPLAN

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:3000 @ A3
 PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD

- BIO-RETENTION
- COMMUNITY PARK NODE
- POCKET PARKS
- LOW FLOW DRAINAGE CHANNEL
- MANAGED LANDSCAPE ZONE
- LANDSCAPE BUFFER
- ENTRY PRECINCTS
- Q100



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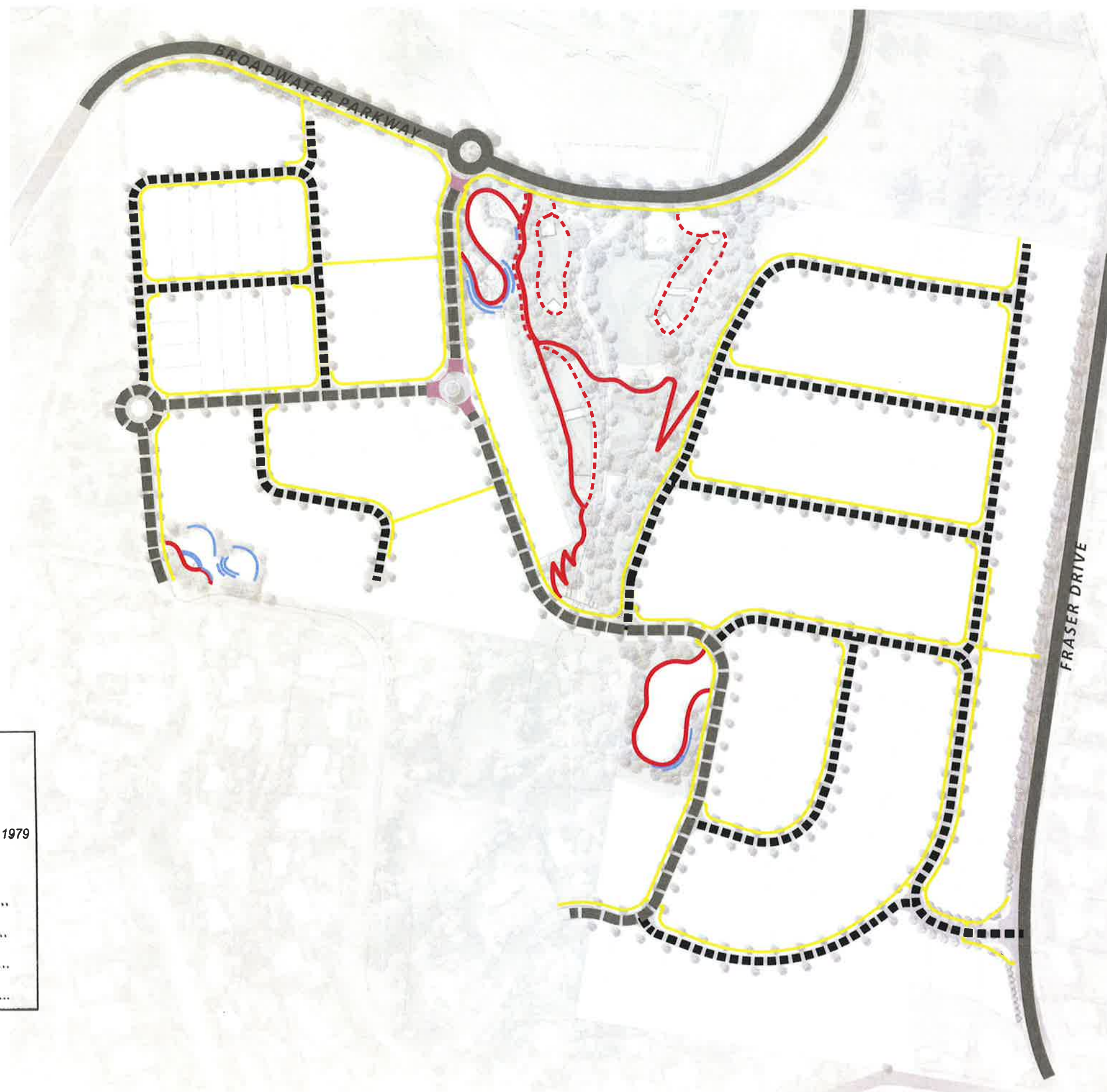
Sheet No 11 of 88

LANDSCAPE STRUCTURE

100906 | 01 MAY 19 | DA18 | NORTH 🕒 | SCALE 1:3000 @ A3
 PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD

FIGURE 2 – LANDSCAPE STRUCTURE

- PARK PATHWAYS
- - - MAINTENANCE ACCESS PATHWAYS
- BUSH TRACK
- CONCRETE PATHWAYS
- BLUESTONE GABION RETAINING WALLS
- TRANSITIONAL ROAD TREATMENT
- MAJOR ROADS
- PRIMARY BOULEVARD
- - - SECONDARY SPINE ROAD
- - - TERTIARY STREETS



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CIRCULATION NETWORK

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--- COMPLYING AREA
 ■ TOTAL PARK AREA



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COMPLIANCE AREAS

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:3000 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD

FIGURE 4 – CASUAL OPEN SPACE COMPLIANCE AREAS

- 1200 HIGH COLORBOND FIRE BUFFER FENCE
- TIMBER SCREEN FEATURE FENCE
- - - TIMBER PALING FENCE
- - - SAFETY BALUSTRADE



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FENCE TYPES & BALUSTRADES

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:3000 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD

FORM LANDSCAPE ARCHITECTS | 7



COLORBOND FENCE

ITEM: COLORBOND STEEL FENCING
 SUPPLIER: LOCAL APPROVED
 SIZE: 1200MM HIGH
 TYPE/FINISH: WOODLAND GREY
 DETAIL REF: REFER MANUFACTURER'S DETAIL (WWW.COLORBOND.COM)

NSW GOVERNMENT | Planning, Industry & Environment

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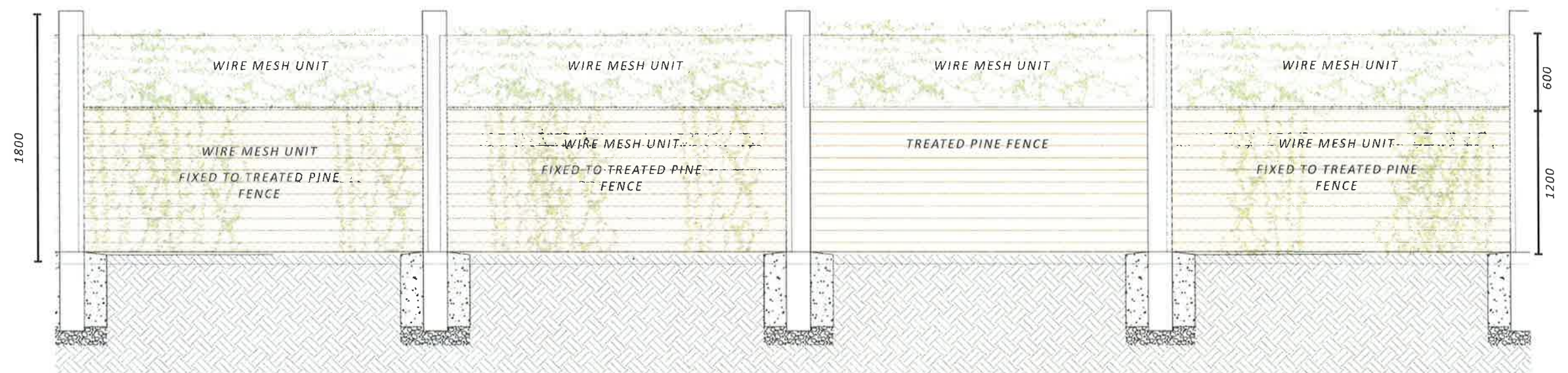
In respect to MP 09-0166

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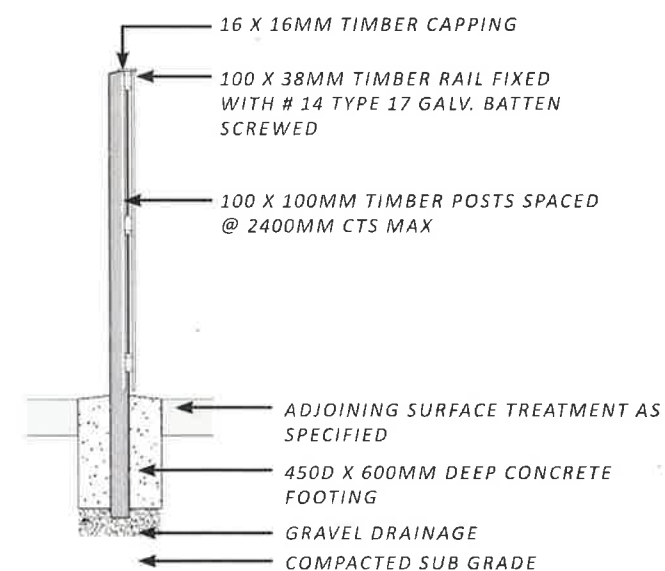
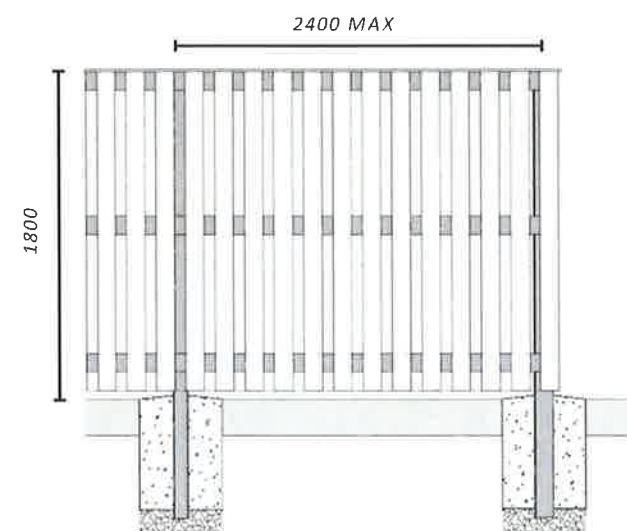
Sheet No 15 of 88



TIMBER SCREEN FENCE



TIMBER PALING FENCE



FENCE TYPES

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PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



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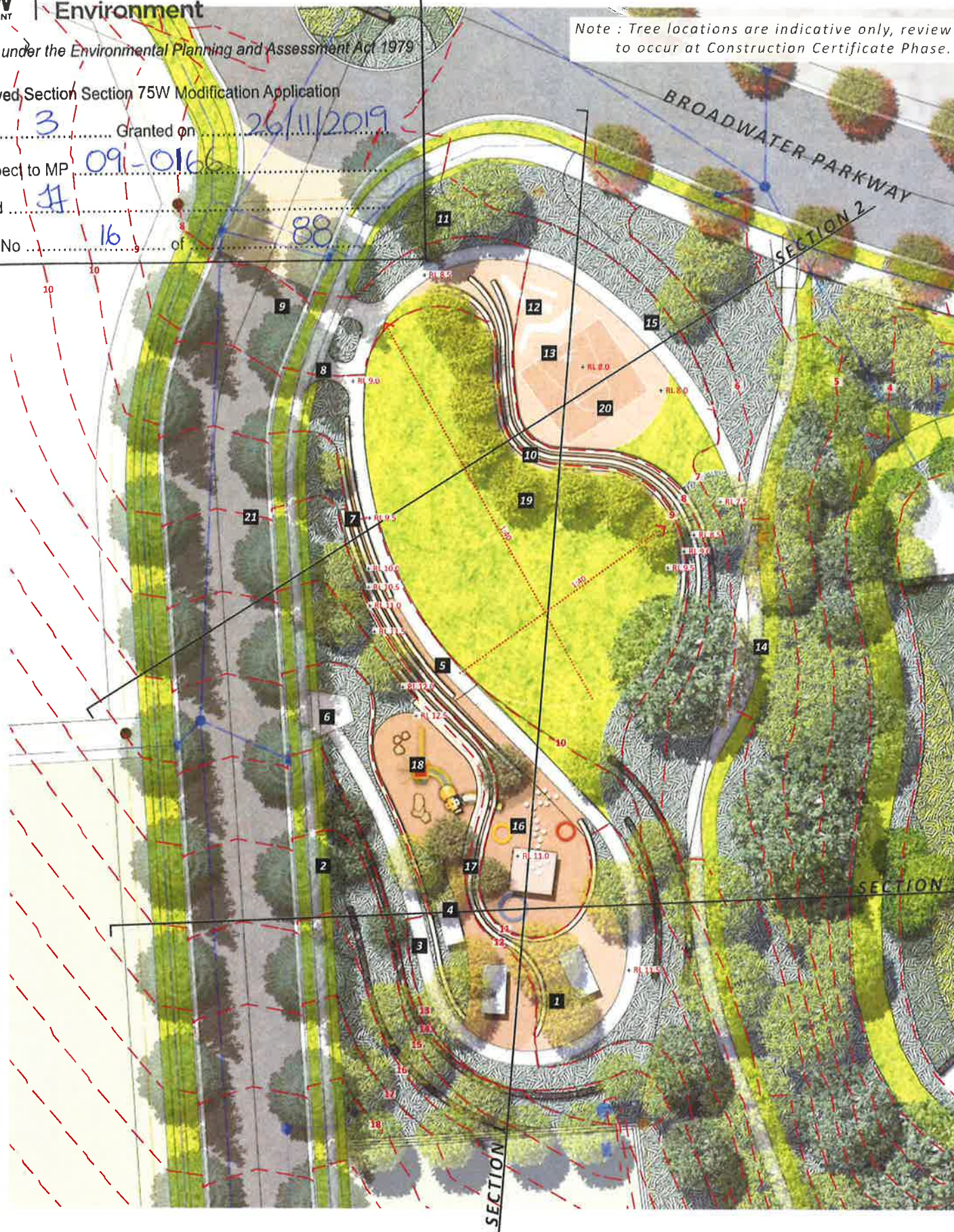
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In respect to MP 091-0166

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Sheet No 16 of 88

Note : Tree locations are indicative only, review to occur at Construction Certificate Phase.



COMMUNITY PARK NODE

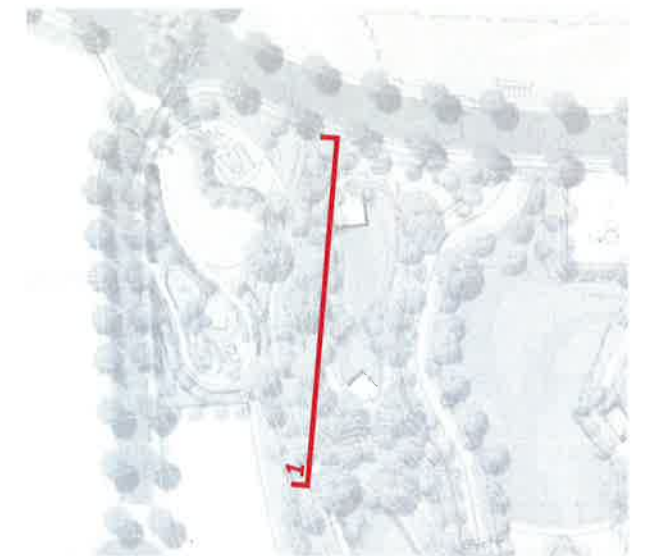
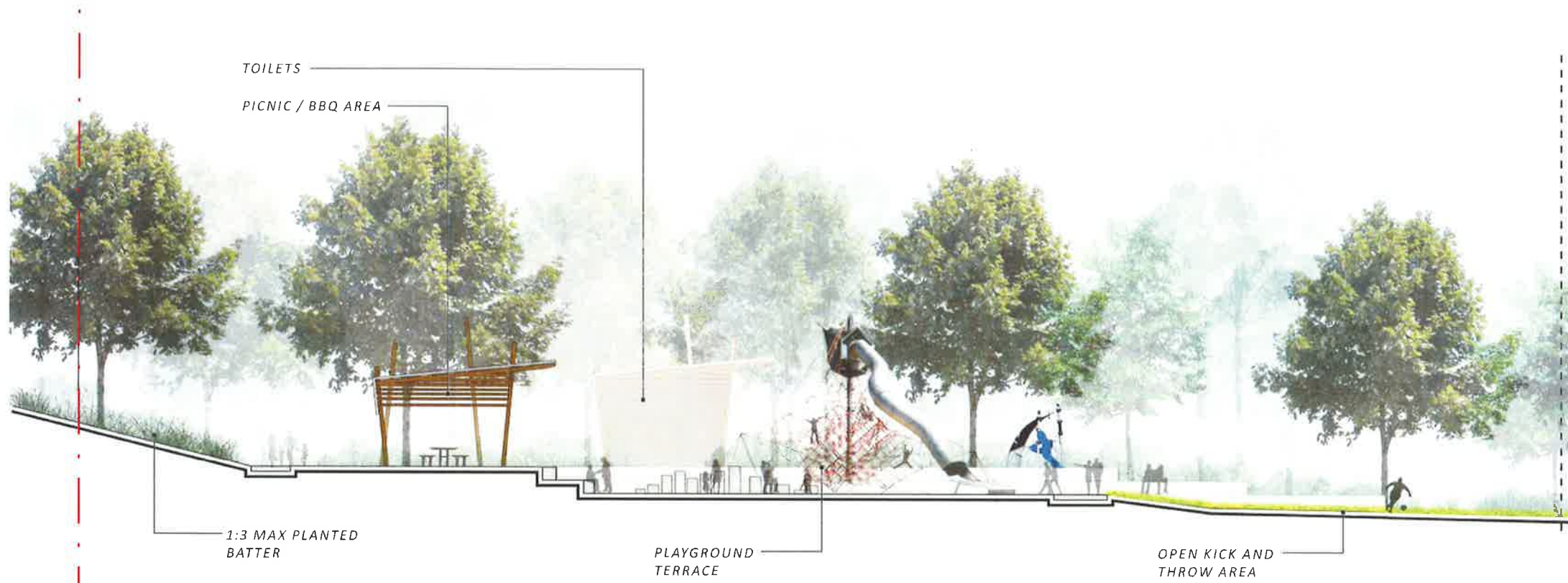
100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:500 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



- 1 PICNIC SHELTERS AND BBQ AREA OVERLOOKING PARK
- 2 BOLLARDS TO PARK PERIMETER
- 3 VIEWS INTO PARK AND PLAYGROUND FROM ELEVATED FOOTPATH FOR IMPROVED CPTD
- 4 TOILET FACILITIES
- 5 1500 WIDE CONCRETE FOOTPATH
- 6 MAIN PARK ENTRY NODE
- 7 TERRACE SEATING OVERLOOKING KICK AND THROW PARK
- 8 INFORMAL ENTRY
- 9 VIEWS INTO OPEN PARK FROM STREET
- 10 TERRACE SEATING WALL OVERLOOKING COURT AND SKATE SPACE

- 11 LARGE CORNER SHADE TREES AS FEATURE OF ENTRY
- 12 SCULPTURAL SKATE / PARKOUR WALLS AND RAILS
- 13 TEEN PLAYGROUND
- 14 PATHWAY CONNECTION TO STORM WATER DRAINAGE RESERVE
- 15 RETAINING WALL TO ACHIEVE LEVEL AND USABLE PARK POCKETS
- 16 TODDLER / JUNIOR PLAYGROUND
- 17 400MM HIGH TERRACE WALLS BETWEEN LEVELS
- 18 JUNIOR PLAYGROUND
- 19 SHADE TREE PLANTING
- 20 HALF BASKETBALL COURT / HANDBALL
- 21 STREETSIDE CARPARKING ACCOMMODATED IN ROAD WIDTH



SECTION 1



SECTION 1 (cont.)

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SECTION 2



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SECTION 3

100906 | 01 MAY 19 | DA18 | SCALE 1:200 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD

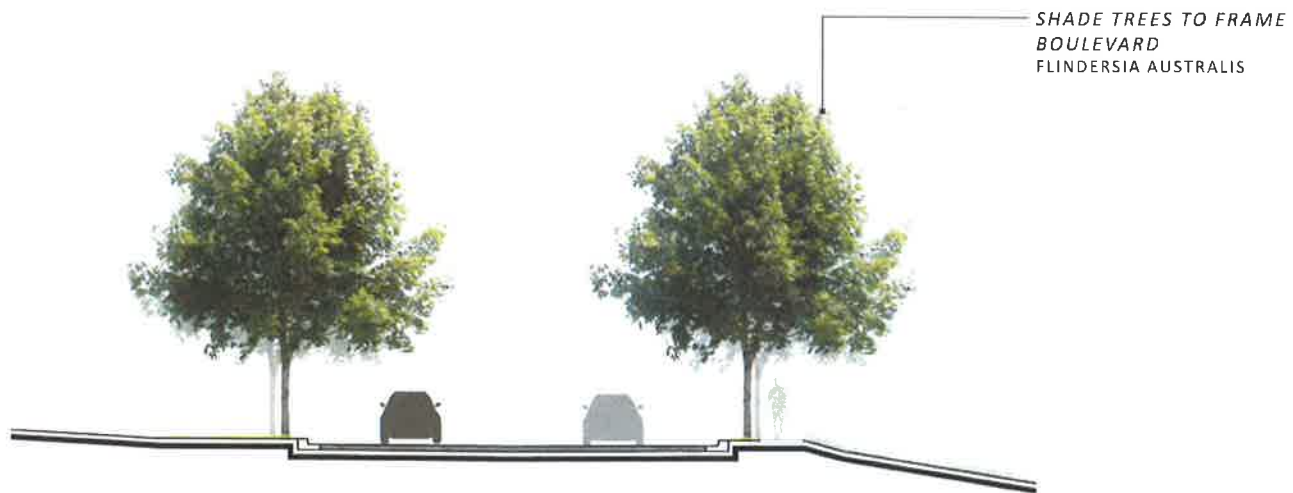


- | | |
|--|--|
| 1 SHELTER AND DECK | 8 WATER BODY |
| 2 RAISED BOARDWALK ACROSS CREEK | 9 Q100 |
| 3 SEDGES AND MARGINAL PLANTING ZONE | 10 RAISED BOARDWALK RAMP |
| 4 DRAINAGE GULLY | 11 8M WIDE STONE PITCHING TO BATTER FOR STABILISED, LOW MAINTENANCE BUSHFIRE BUFFER |
| 5 PARK PEDESTRIAN PATH WITH RAMP LINKING TO MARKET PARADE | |
| 6 BIO RETENTION BASIN | |
| 7 GABION RETAINING WALLS | |

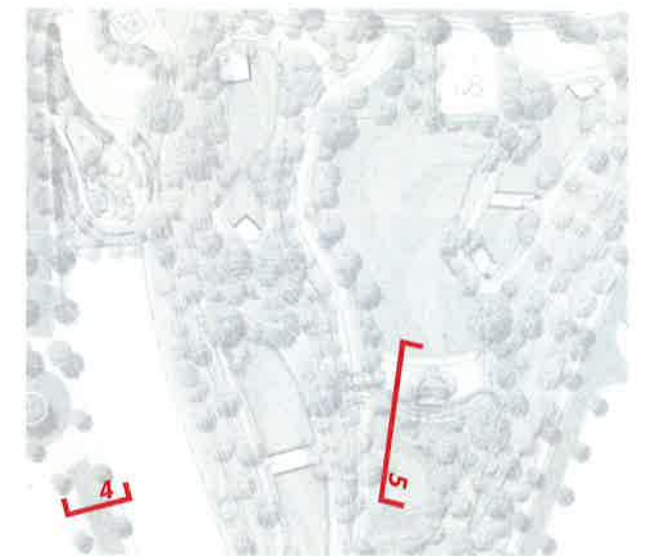
CENTRAL DRAINAGE RESERVE

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:1000 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



SECTION 4



SECTION 5

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Sheet No <u>20</u>	of <u>88</u>

LANDSCAPE SECTIONS

100906 | 01 MAY 19 | DA18 | SCALE 1:200 @ A3

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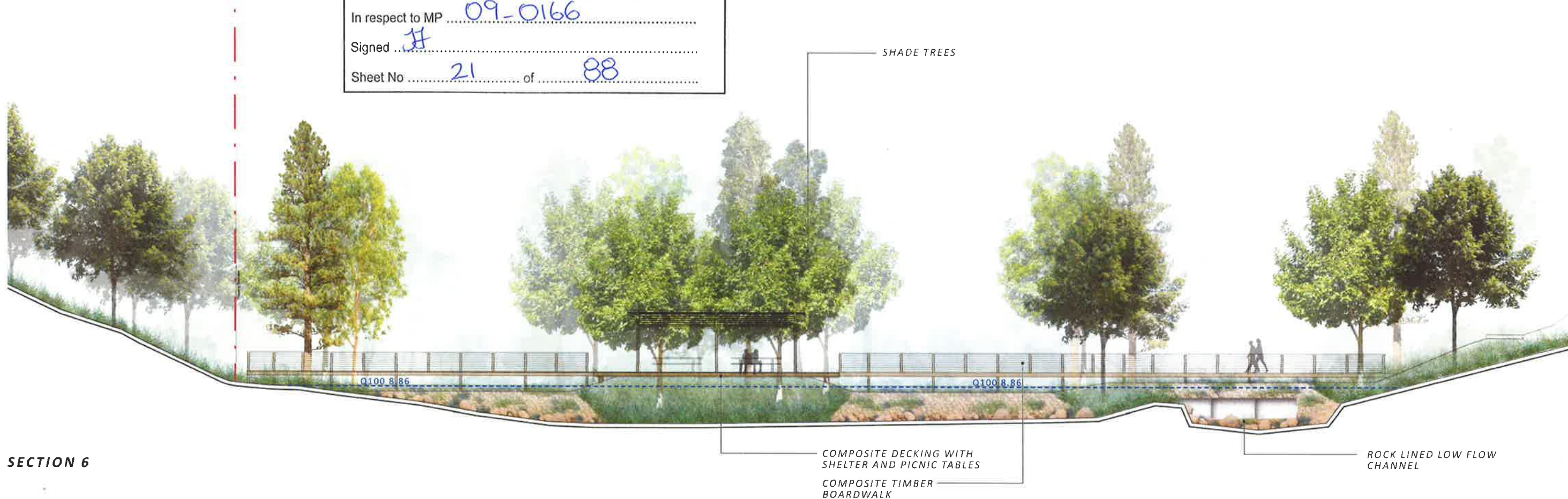
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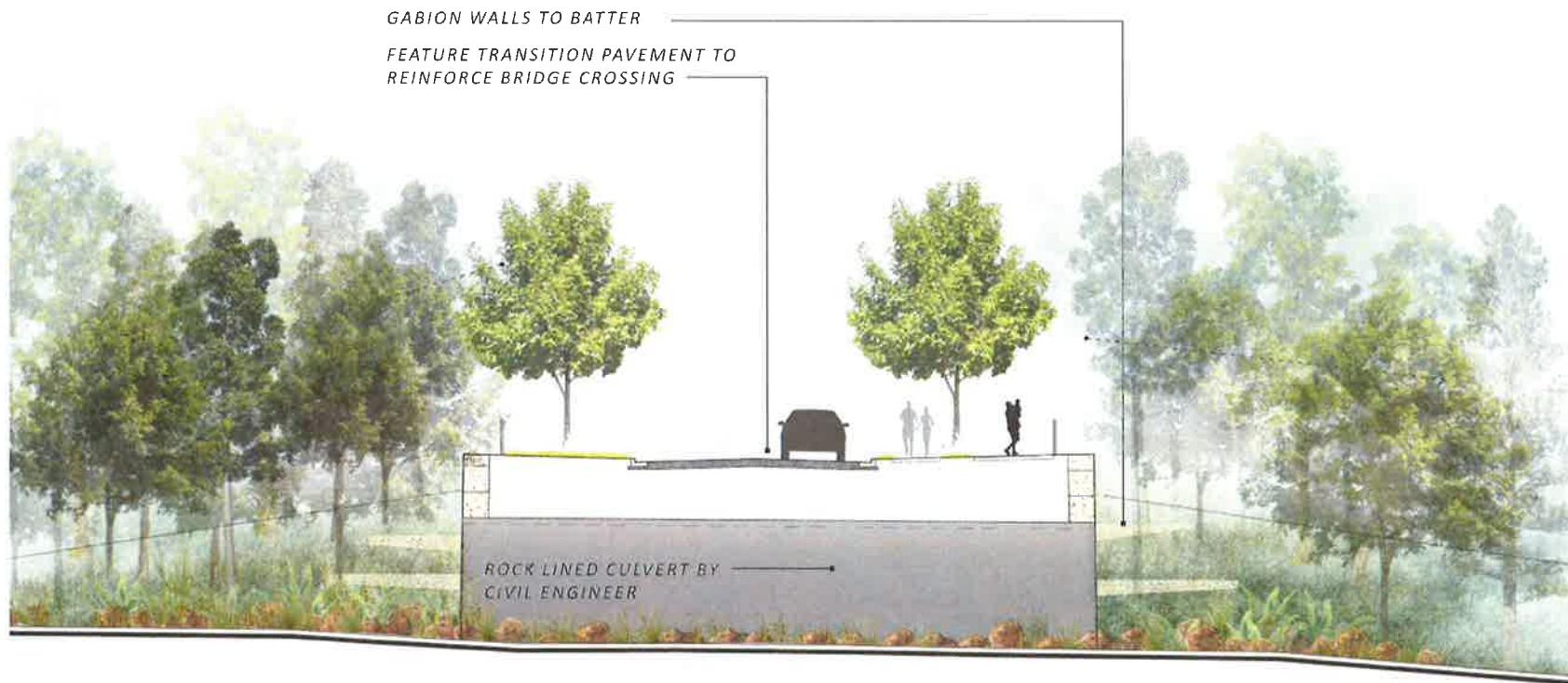


SECTION 6

LANDSCAPE SECTIONS

100906 | 01 MAY 19 | DA18 | SCALE 1:200 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



SECTION 7

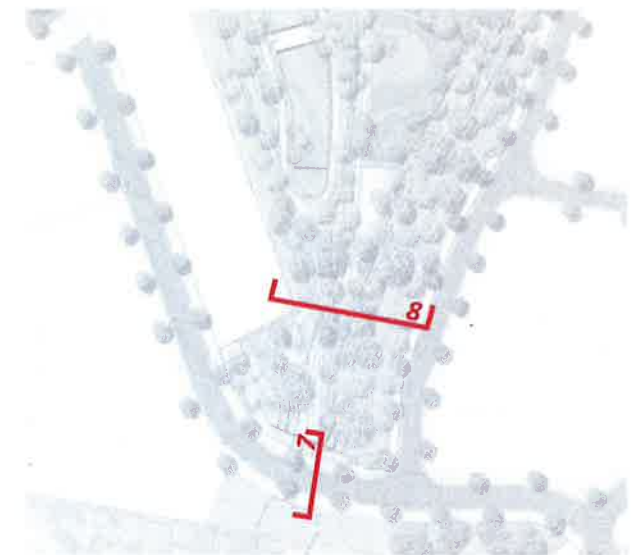


SECTION 8

LANDSCAPE SECTIONS

100906 | 01 MAY 19 | DA18 | SCALE 1:200 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



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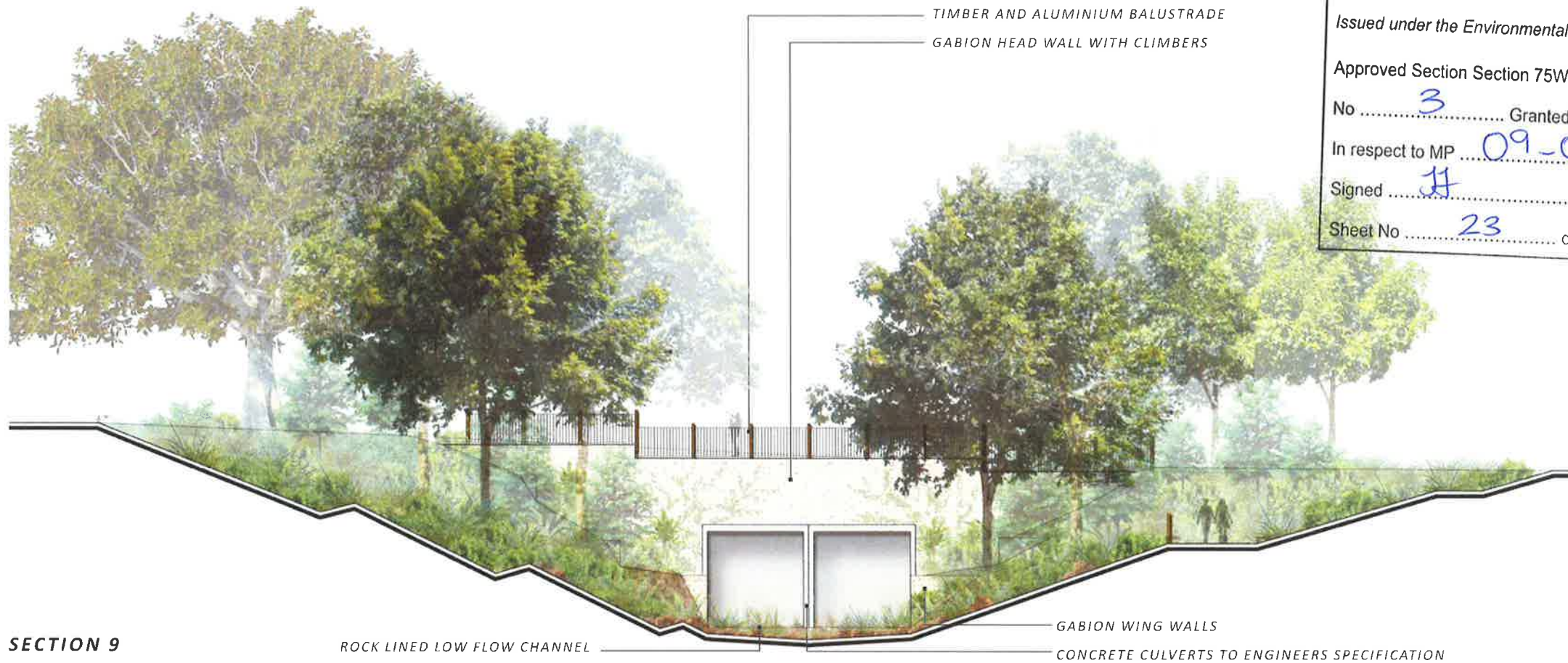
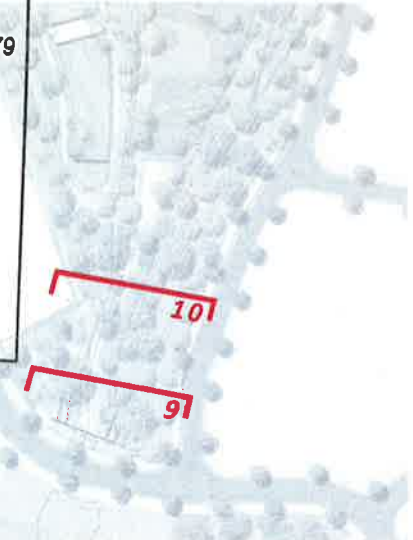
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Sheet No 23 of 88



SECTION 9



SECTION 10

LANDSCAPE SECTIONS

100906 | 01 MAY 19 | DA18 | SCALE 1:200 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD





- 1 PARK PATHWAY
- 2 KICK AND THROW GRASS AREA
- 3 PICNIC SHELTER
- 4 SANDSTONE TERRACE
- 5 SCREEN PLANTING TO BOUNDARY



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POCKET PARK 1

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:500 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



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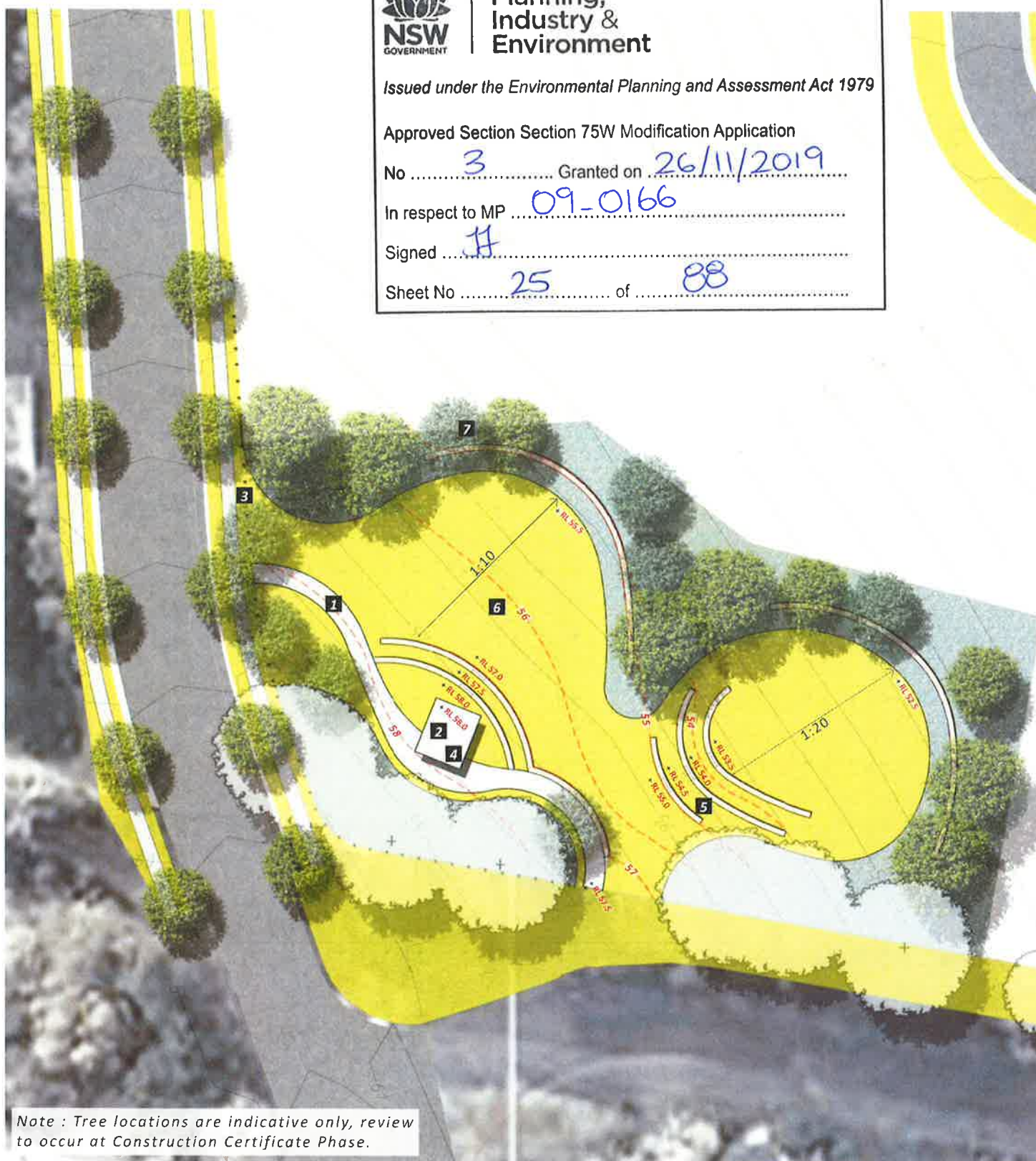
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Sheet No 25 of 88



- 1 PARK PATHWAY
- 2 BARBEQUE
- 3 TIMBER BOLLARDS AND LOCKRAIL TO PARK BOUNDARY
- 4 PICNIC SHELTER
- 5 SANDSTONE TERRACE
- 6 KICK AND THROW GRASS AREA
- 7 SCREEN PLANTING TO BOUNDARY



NEW TREES



EXISTING TREES



PROPOSED CONTOURS

POCKET PARK 2

100906 | 01 MAY 19 | DA18 | NORTH | SCALE 1:500 @ A3

PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



Note : Tree locations are indicative only, review to occur at Construction Certificate Phase.

FRASER DRIVE ENTRY

100906 | 01 MAY 19 | DA18 | NORTH 🕒 | SCALE 1:500 @ A3
PROJECT ALTITUDE ASPIRE | TERRANORA | PERMISSIBLE CHANGE | CLIENT NEWLAND DEVELOPERS PTY LTD



- 1 STREET TREES
- 2 TIMBER ACOUSTIC FENCE WITH SCREEN PLANTING
- 3 PATHWAY
- 4 SIGNAGE WALL
- 5 LOW LEVEL STONE WALL
- 6 BOULEVARD SHADE TREES
- 7 FEATURE ACCENT TREES
- 8 HIGH STONE ENTRY WALL/ACOUSTIC WALL
- 9 LOW PLANTING TO ROUNDABOUT
- 10 ELEVATED SIGNAGE BLADE



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PERSPECTIVE OF LANDSCAPE BUFFER & SCREENING TO FRASER DRIVE.
(SOURCE: TWEED HEADS SHIRE COUNCIL, DCP, 2011)



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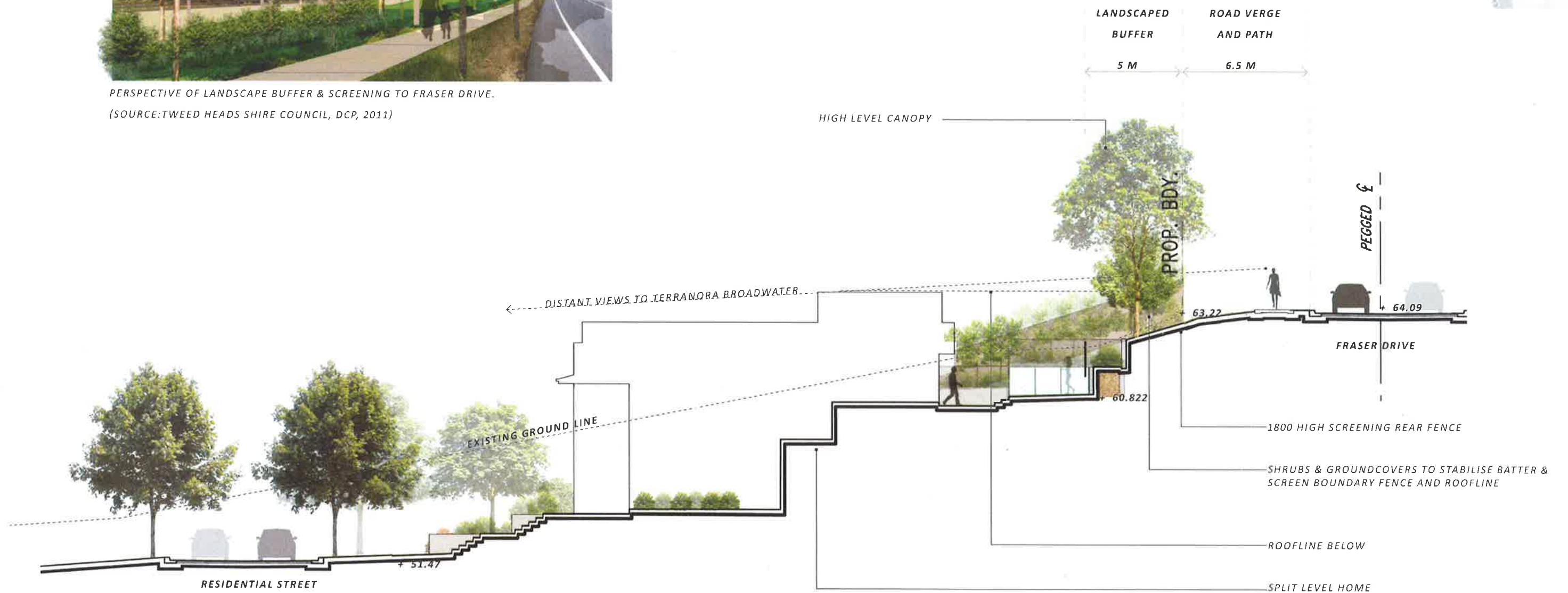
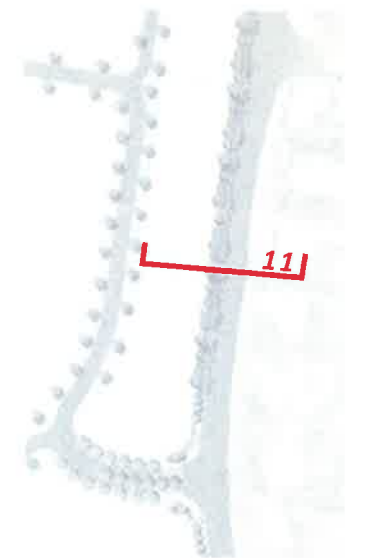
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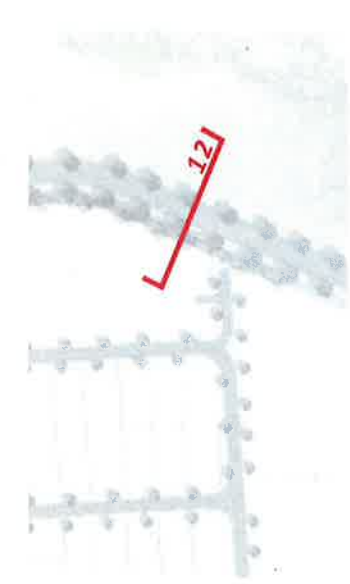
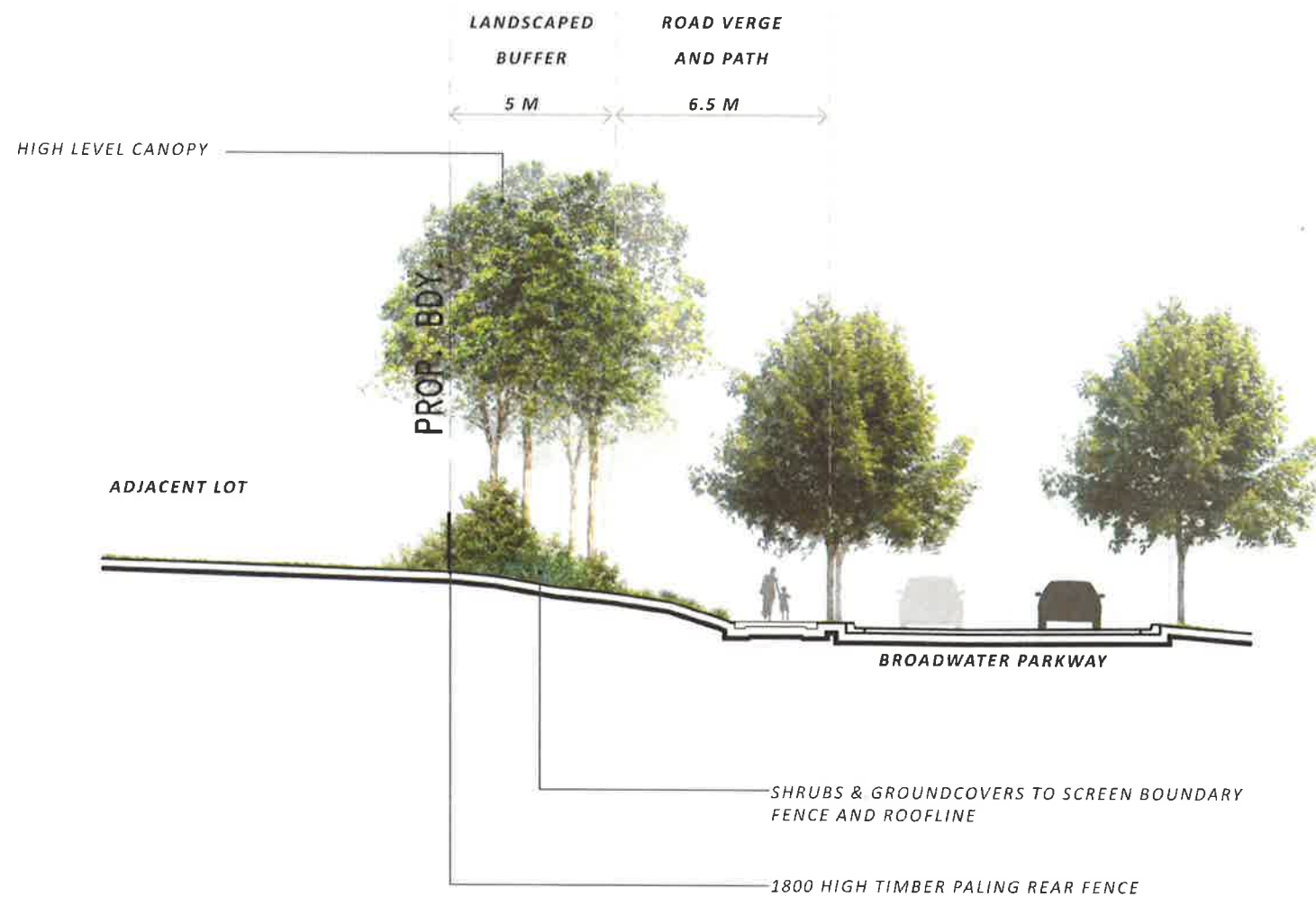
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SECTION 11



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SECTION 12

PARSONIA STRAMINEA
PANDOREA JASMINOIDES
HOYA AUSTRALIS
CISSUS ANTARCTICA
CISSUS HYPOGLAUCA
CRINUM PEDUNCULATUM
ADIANTUM HISPIDULUM
PELLAEA FALCATA
ASPLENIUM AUSTRALASICUM
DIPLAZIUM DILATATUM
BLECHNUM CARTILAGINEUM
BLECHNUM INDICUM
DOODIA ASPERA
CYATHEA LEICHHARDTIANA
LEPIDOSPERMA LATERALE
LOMANDRA LONGIFOLIA
GEITONOPLESIMUM CYMOSUM
ALOCASIA BRISBANENSIS
DIANELLA CAERULEA
ERAGROSTIS SP.
ALPINIA CAERULEA
DICHONDRA REPENS
MYOPORUM ELLIPTICUM
PLECTRANTHUS GRAVEOLENS
COMMELINA CYANEA
DIANELLA BREVIPENDUNCULATA
DOODIA CAUDATA
LOMANDRA LONGIFOLIA
PLECTRANTHUS PARVIFLORUS

MONKEY ROPE
BOWER VINE
NATIVE HOYA
WATER VINE
FIVE-LEAF WATER VINE
CRINUM LILY
ROUGH MAIDENHAIR
SICKLE FERN
BIRD'S NEST FERN
LADY FERN
GRISTLE FERN
SWAMP WATER FERN
RASP FERN
PRICKLY TREE FERN
VARIABLE SWORD-SEDGE
LONG-LEAVED MATRUSH
SCRAMBLING LILY
CUNJEVOI
BLUE FLAX LILY
LOVEGRASS
NATIVE GINGER
KIDNEY WEED
COASTAL BOOBIALLA
NATIVE COLEUS
SCURVEY WEED
SHORT FLOWERED FLAX LILY
SMALL RASP FERN
MAT RUSH
COCKSPUR FLOWER

[illegible]

BATTERS TO BE DENSELY PLANTED WITH NATIVE TREE AND UNDERSTOREY PLANTING. TO COMPLY WITH THE BUSHFIRE MANAGEMENT PLAN, REFER TO PLANT SCHEDULE FOR SPECIES.

BATTER EXCEEDING 1:4

The diagram shows a cross-section of a slope. A vertical line is drawn from the top of the slope to the ground surface. A tree is planted on the slope, with its trunk parallel to the vertical line. A person is standing on the top of the slope to the right of the tree. The slope is labeled 'BATTER EXCEEDING 1:4'. The text 'BATTERS TO BE DENSELY PLANTED WITH NATIVE TREE AND UNDERSTOREY PLANTING. TO COMPLY WITH THE BUSHFIRE MANAGEMENT PLAN, REFER TO PLANT SCHEDULE FOR SPECIES.' is written above the tree.

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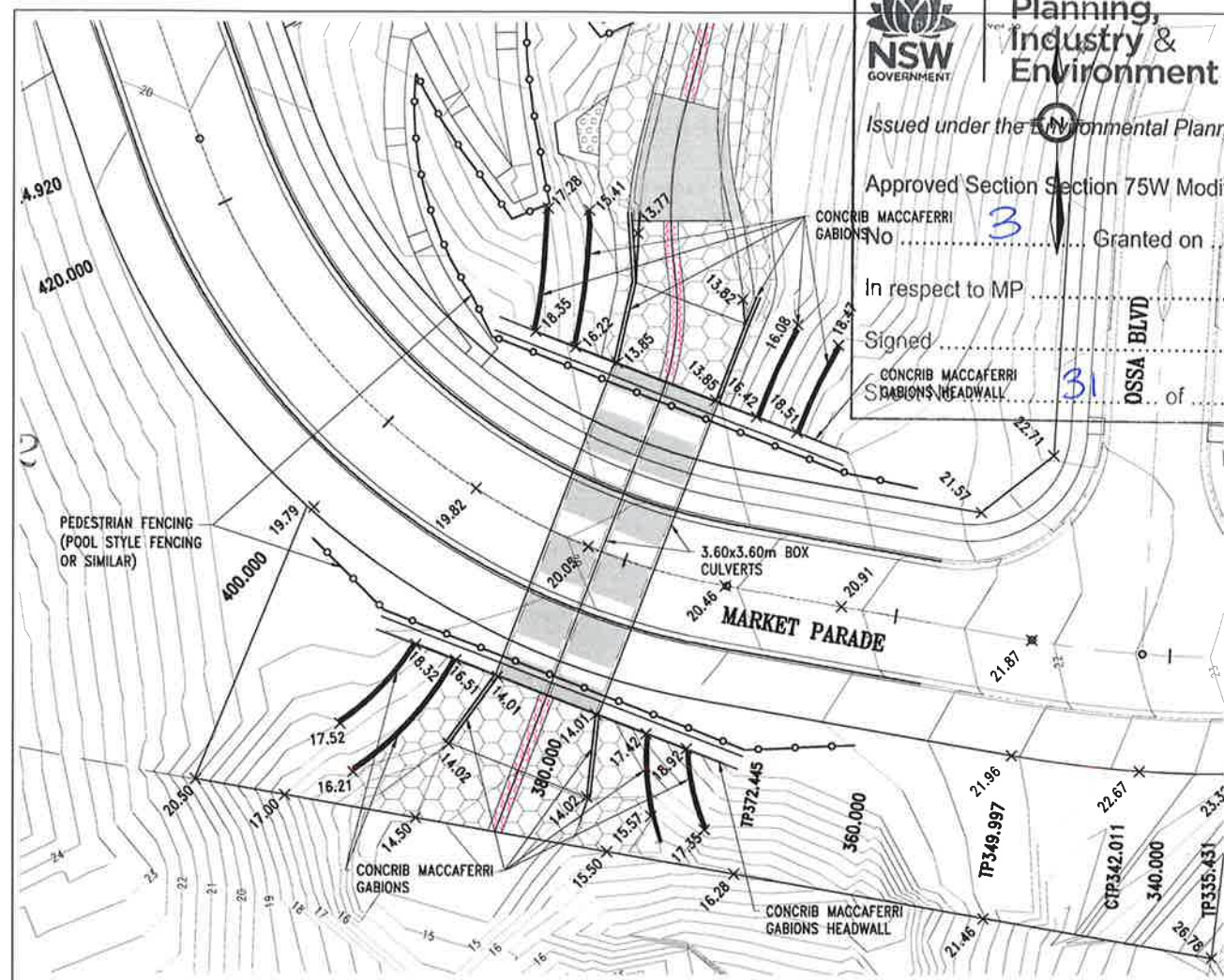
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100906 | 01 MAY 19 | DA18



BOX CULVERT SECTIONS LAYOUT
SCALE 1:250

Vertical Curve Length (m)
Vertical Curve Radius (m)
Vertical Grade (%)
Vertical Grade (1 in ...)
DATUM

HEIGHT OF FILL	0.05	0.79	2.54	5.11	7.23	7.18	6.38	5.86
DEPTH OF CUT								
PAVEMENT LEVEL ON PEGGED CENTRELINE	22.725	21.870	21.155	20.463	20.149	20.116	19.705	19.692
EXISTING SURFACE LEVEL	22.677	21.077	18.619	15.355	12.922	12.941	13.327	13.822
PEGGED CHAINAGE	340.000	349.998	360.000	372.446	380.000	380.913	400.000	405.783

HORIZONTAL CURVE DATA
HORIZ SCALE 1:250 VERT SCALE 1:250

R14.6

MARKET PARADE

R52.5



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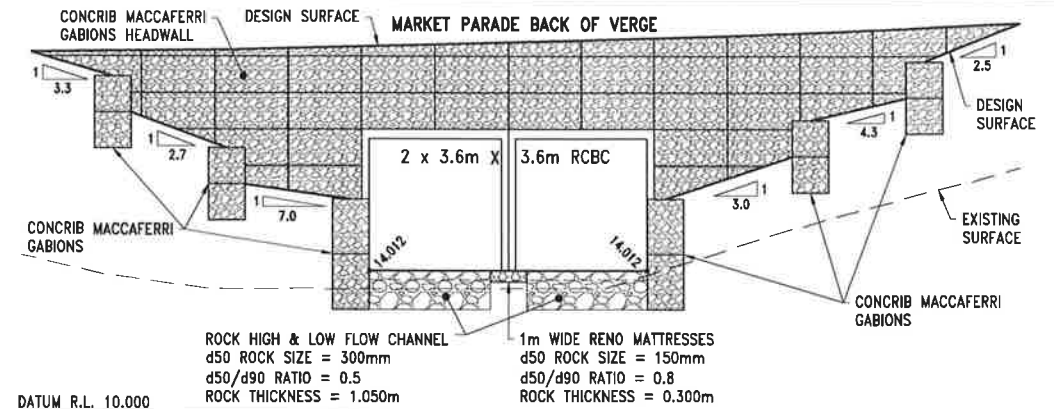
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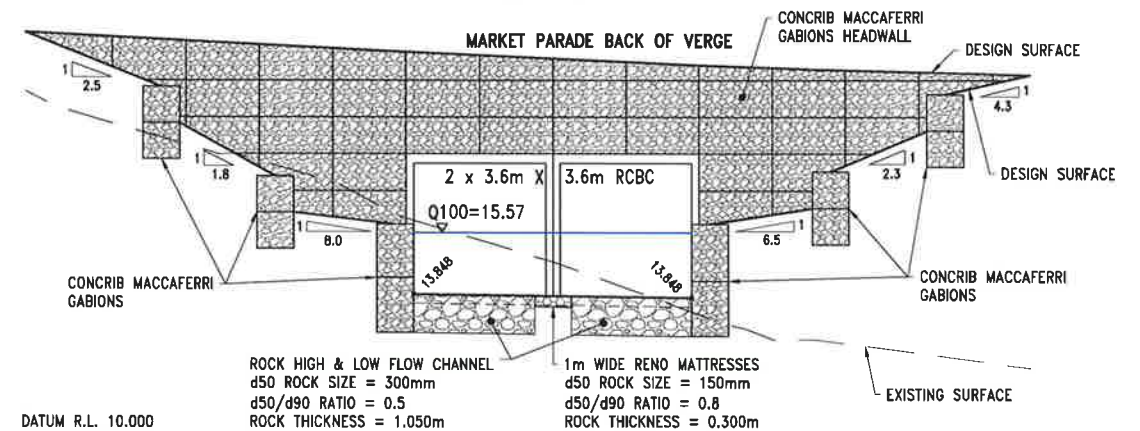
Signed JH

31 DSSA BLVD of 88



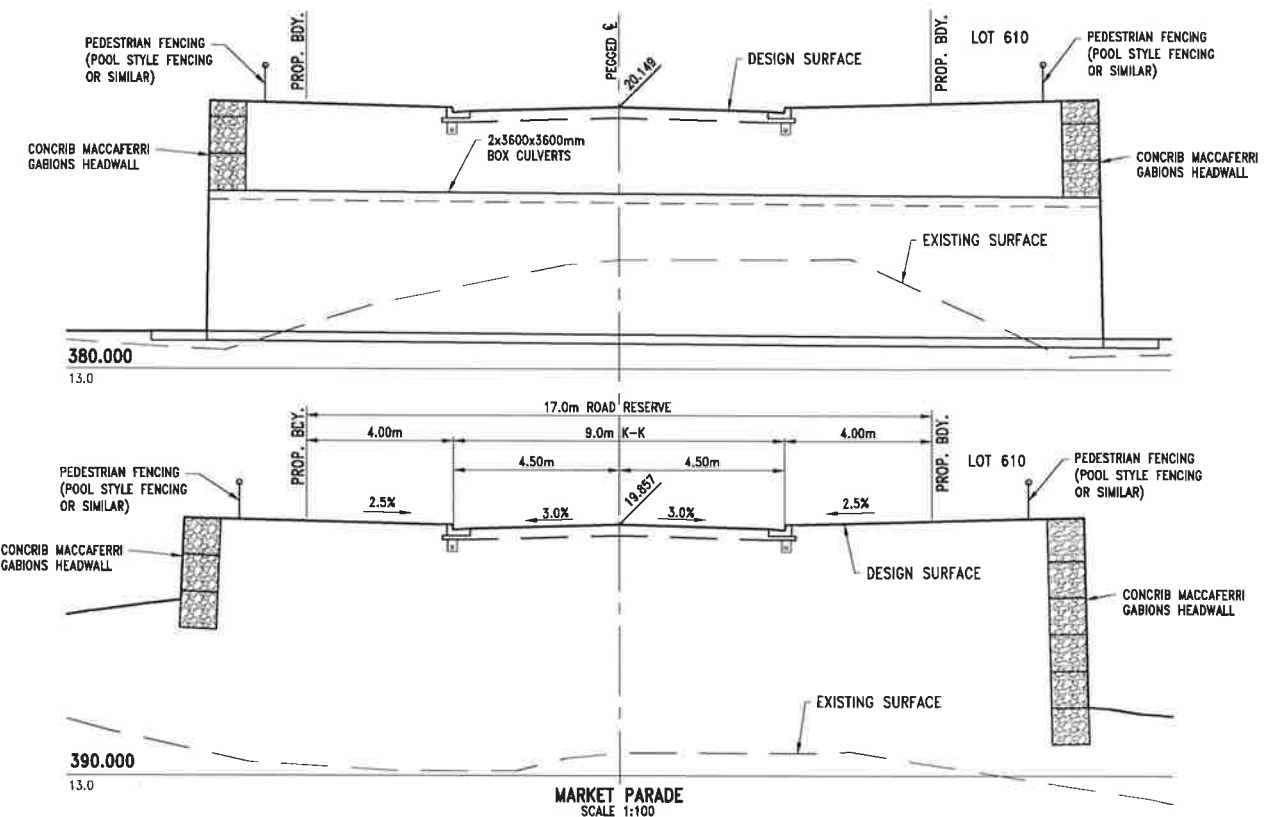
MARKET PARADE CULVERT UPSTREAM WALL

SCALE 1:100



MARKET PARADE CULVERT DOWNSTREAM WALL

SCALE 1:100



MARKET PARADE
SCALE 1:100

NEWLAND DEVELOPERS PTY LTD

09-374

06-02-2019

ALTITUDE ASPIRE
BOX CULVERT SECTIONS

SK 3487
REVISION F

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422

Web www.bradlees.com.au
Email mail@bradlees.com.au

Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting



QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2008
REG. NO. 233

[illegible]

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5526 6411
Fax 07 5526 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Toll Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting

SGS QUALITY ASSURED COMPANY
ADVISED BY ISO 9001:2000
REG. NO. 333



Planning,
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INTERSECTION ROAD 1
(ALTITUDE BLVD)

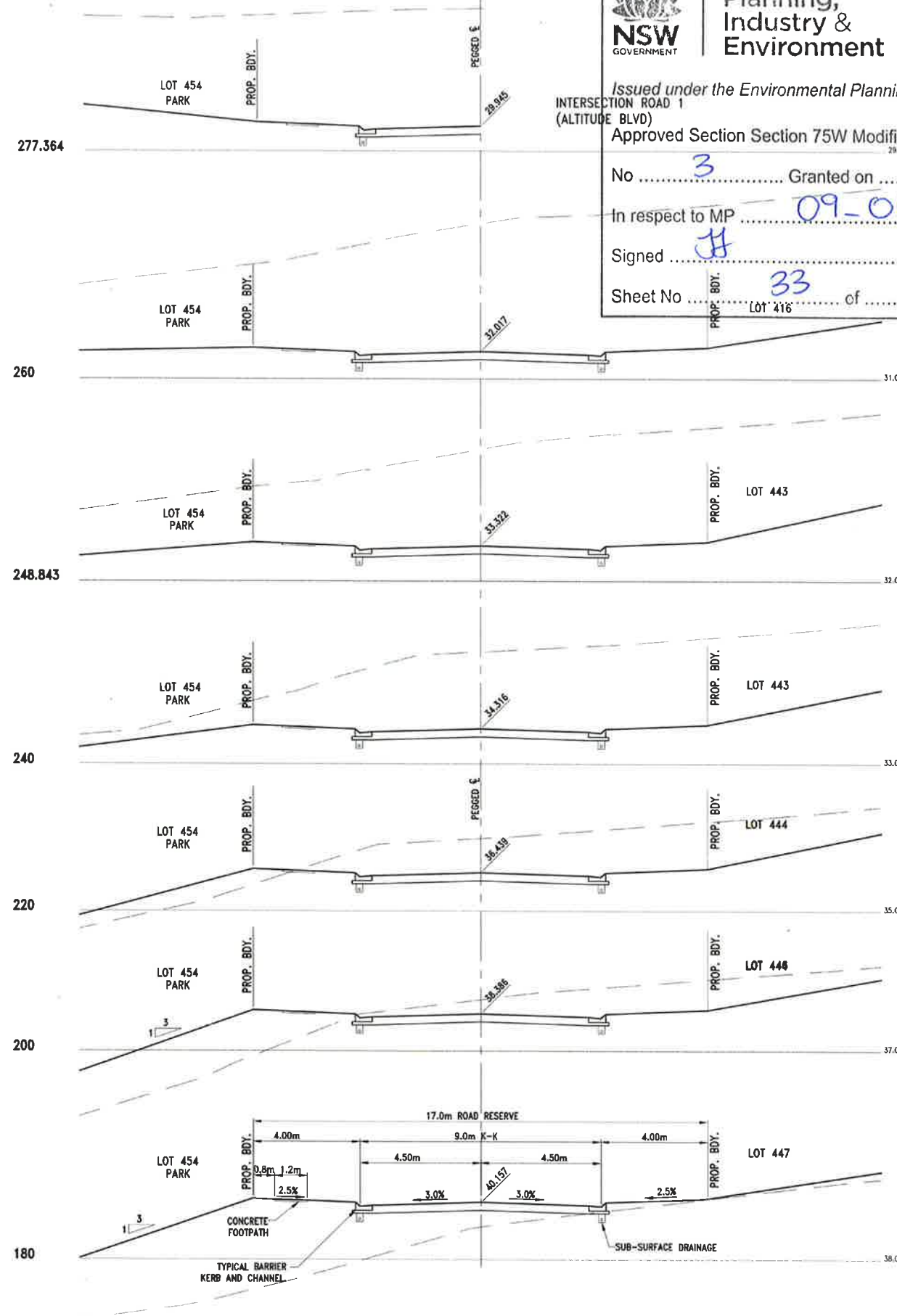
Approved Section 75W Modification Application 340

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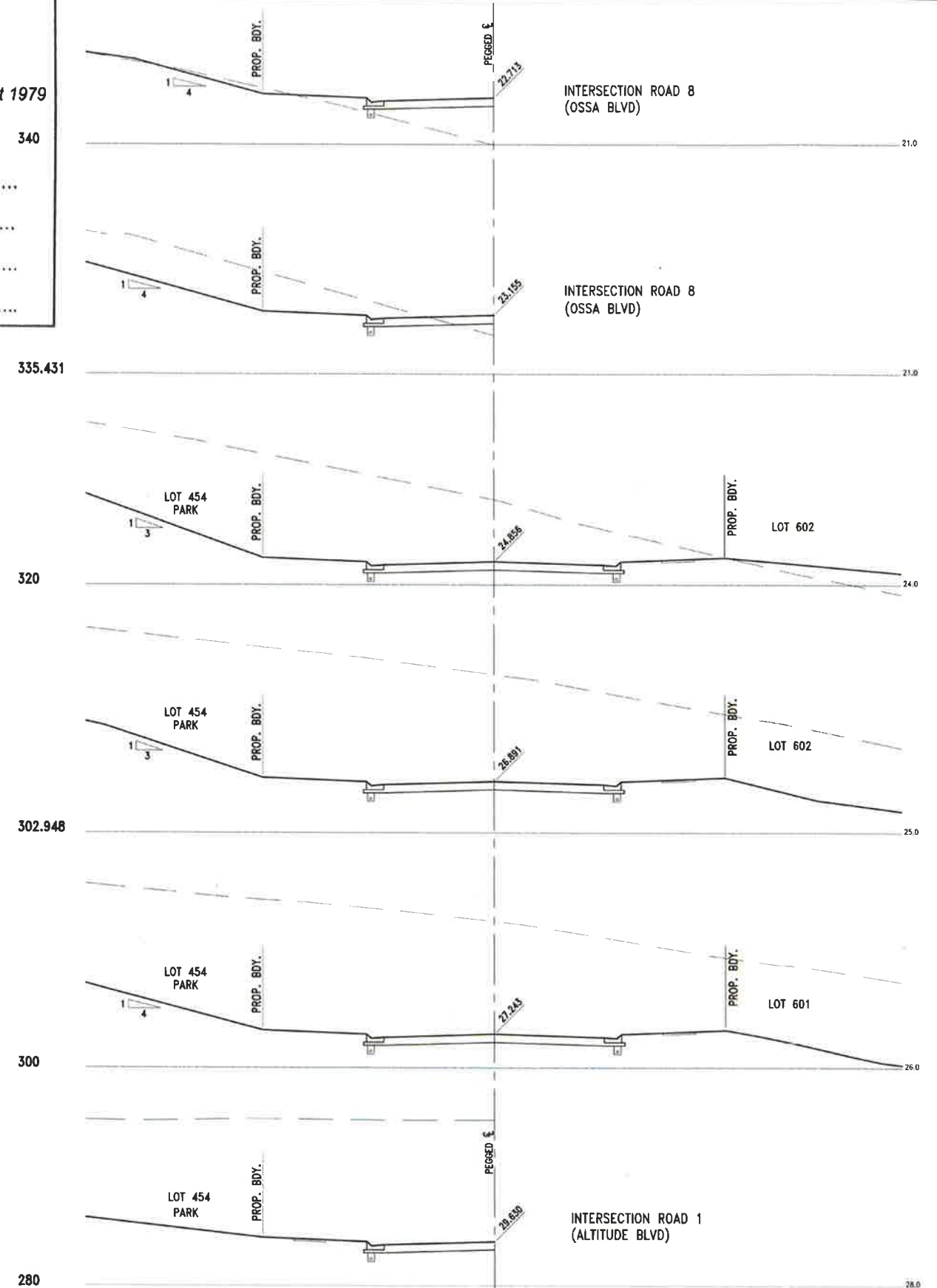
In respect to MP 09-0166

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1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)



NEWLAND DEVELOPERS PTY LTD

09-374
24-07-2018

TERRANORA PRECINCT 1
ROAD 2 (MARKET PARADE) CROSS
SECTIONS - SHEET 2 OF 5

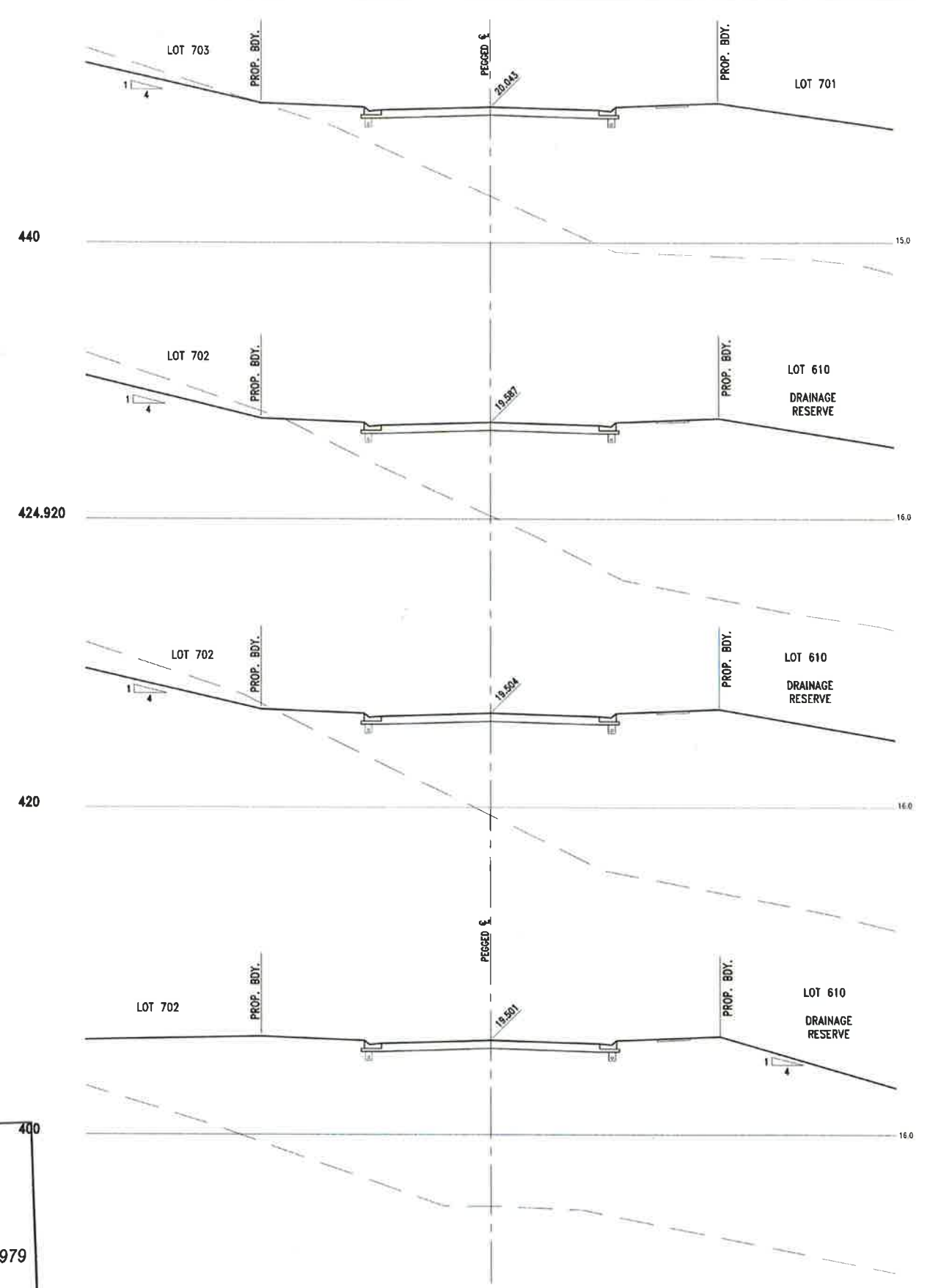
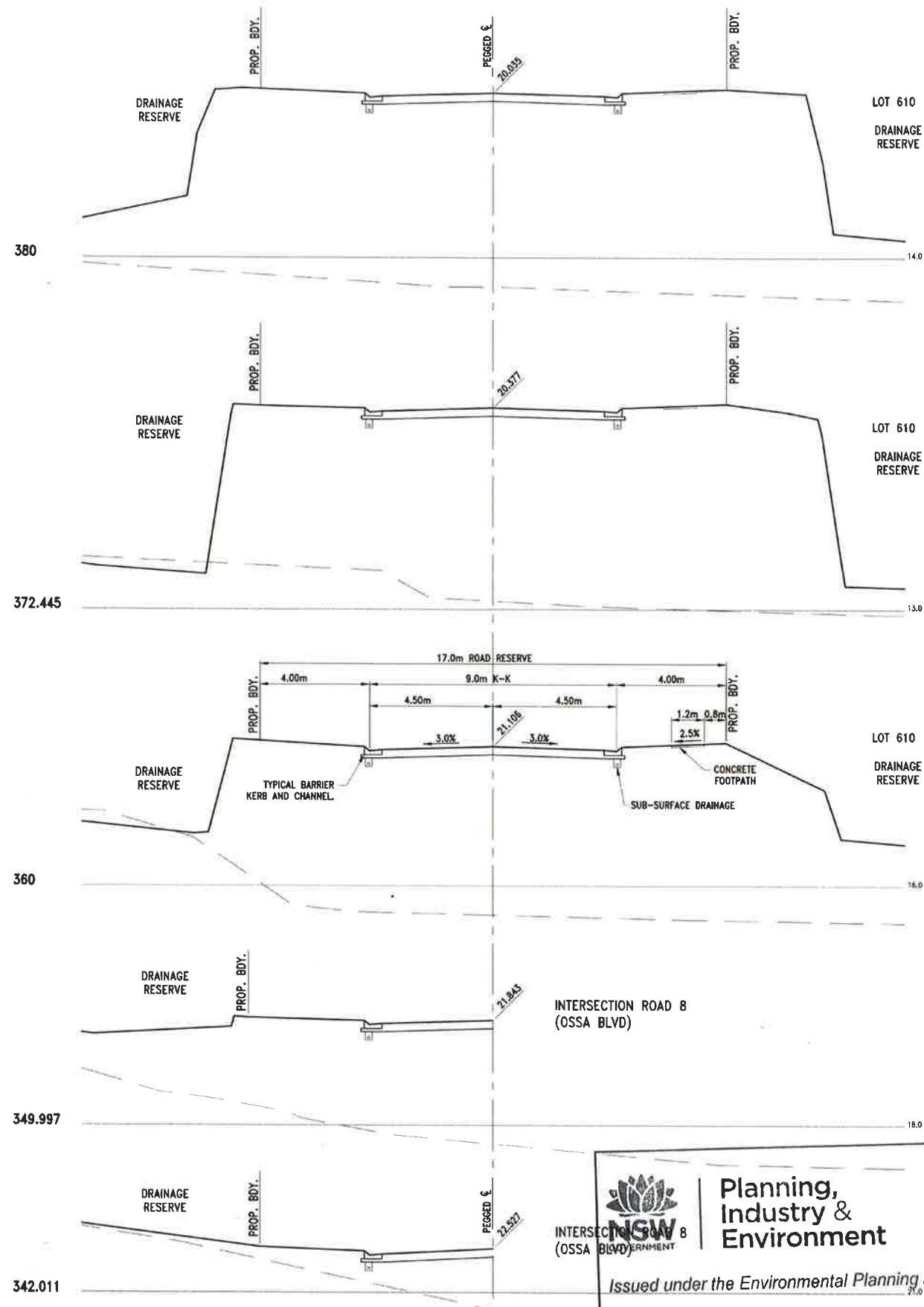
SK 3592
REVISION C

Bradford Lees Pty Ltd
ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
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No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 34 of 88

1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

09-374
24-07-2018

TERRANORA PRECINCT 1
ROAD 2 (MARKET PARADE) CROSS
SECTIONS - SHEET 3 OF 5

SK 3593
REVISION C

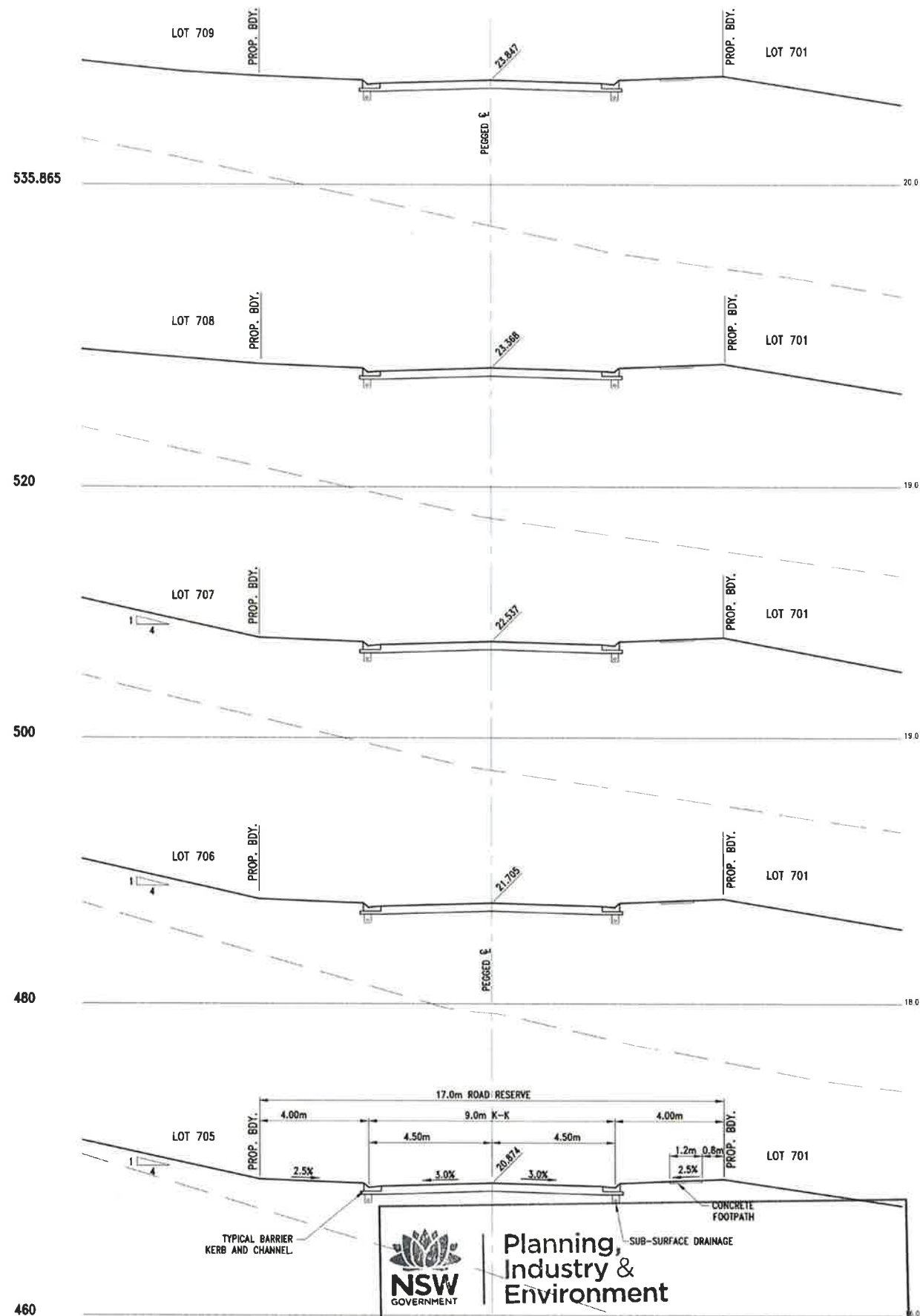
Bradford Lees Pty Ltd
ABN 29 064 159 191

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Fax 07 5528 6422
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Email mail@bradlees.com.au
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AUSTRALIAN STANDARDS
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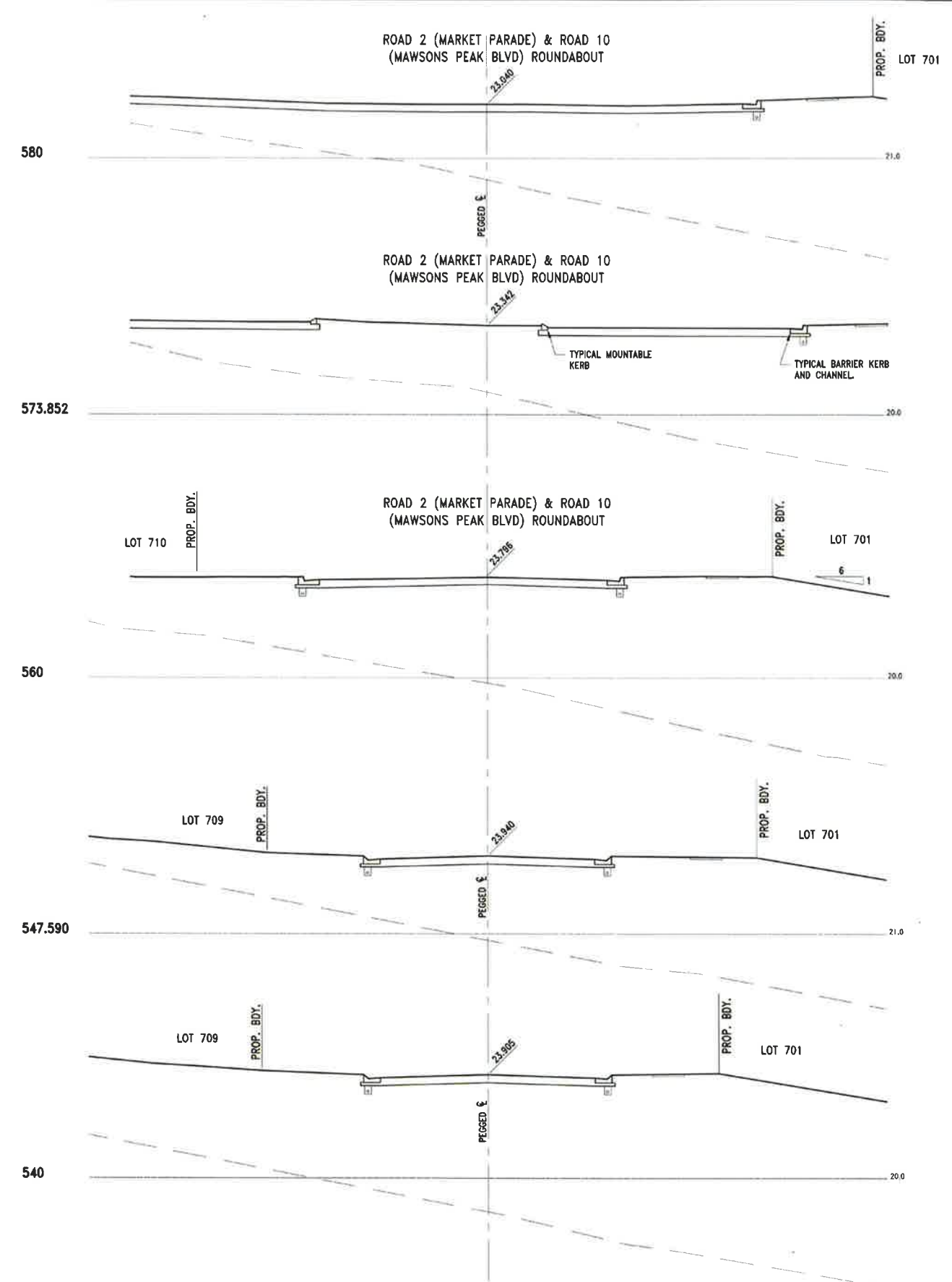
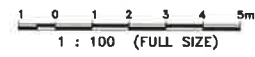
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No 3 Granted on 26/11/2019

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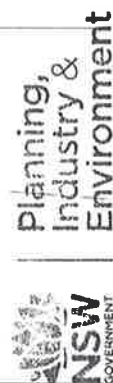
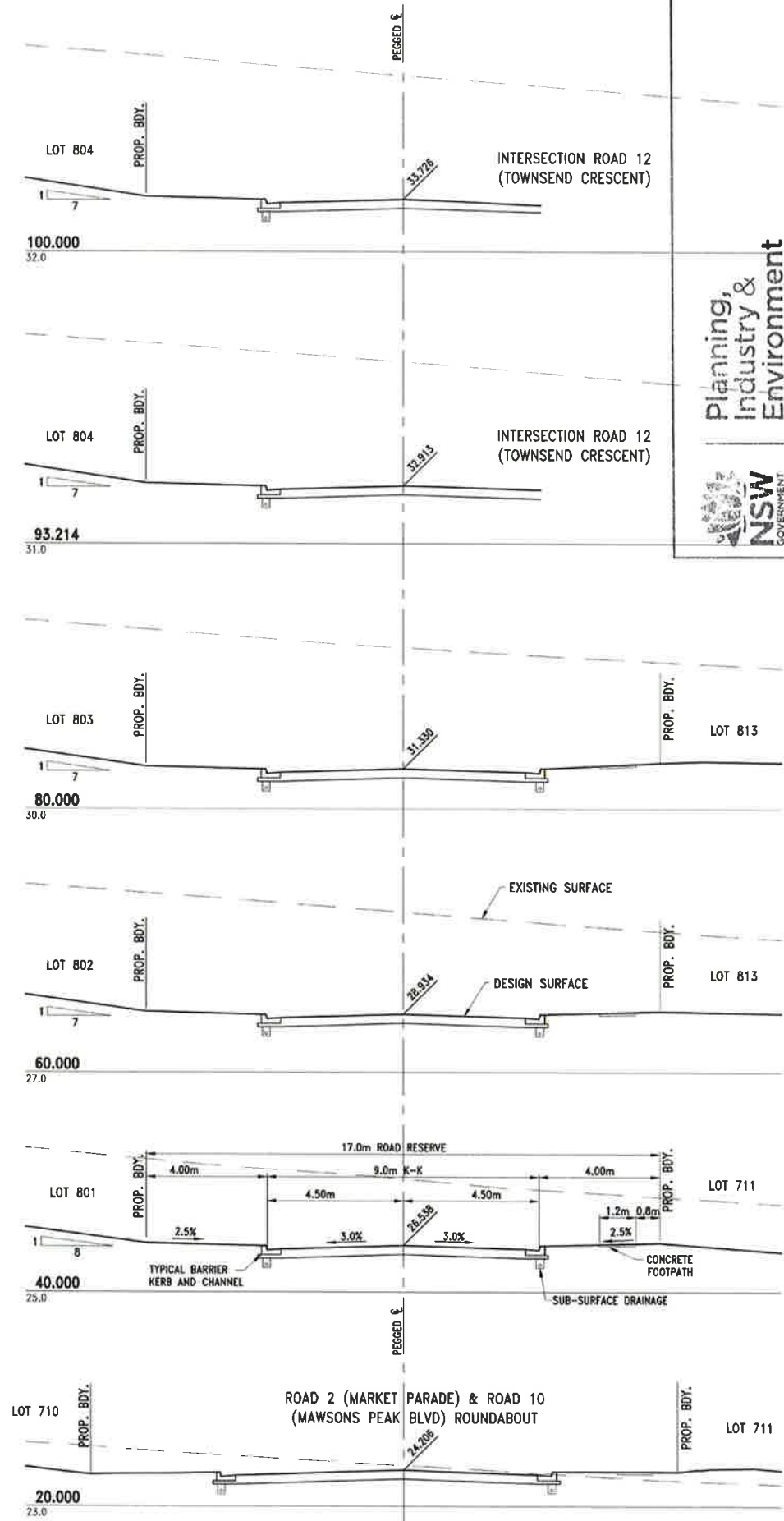
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Sheet No 35 of 88



NEWLAND DEVELOPERS PTY LTD	09-374 24-07-2018
TERRANORA PRECINCT 1	SK 3594 REVISION C
ROAD 2 (MARKET PARADE) CROSS SECTIONS - SHEET 4 OF 5	

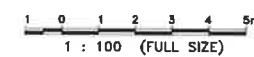
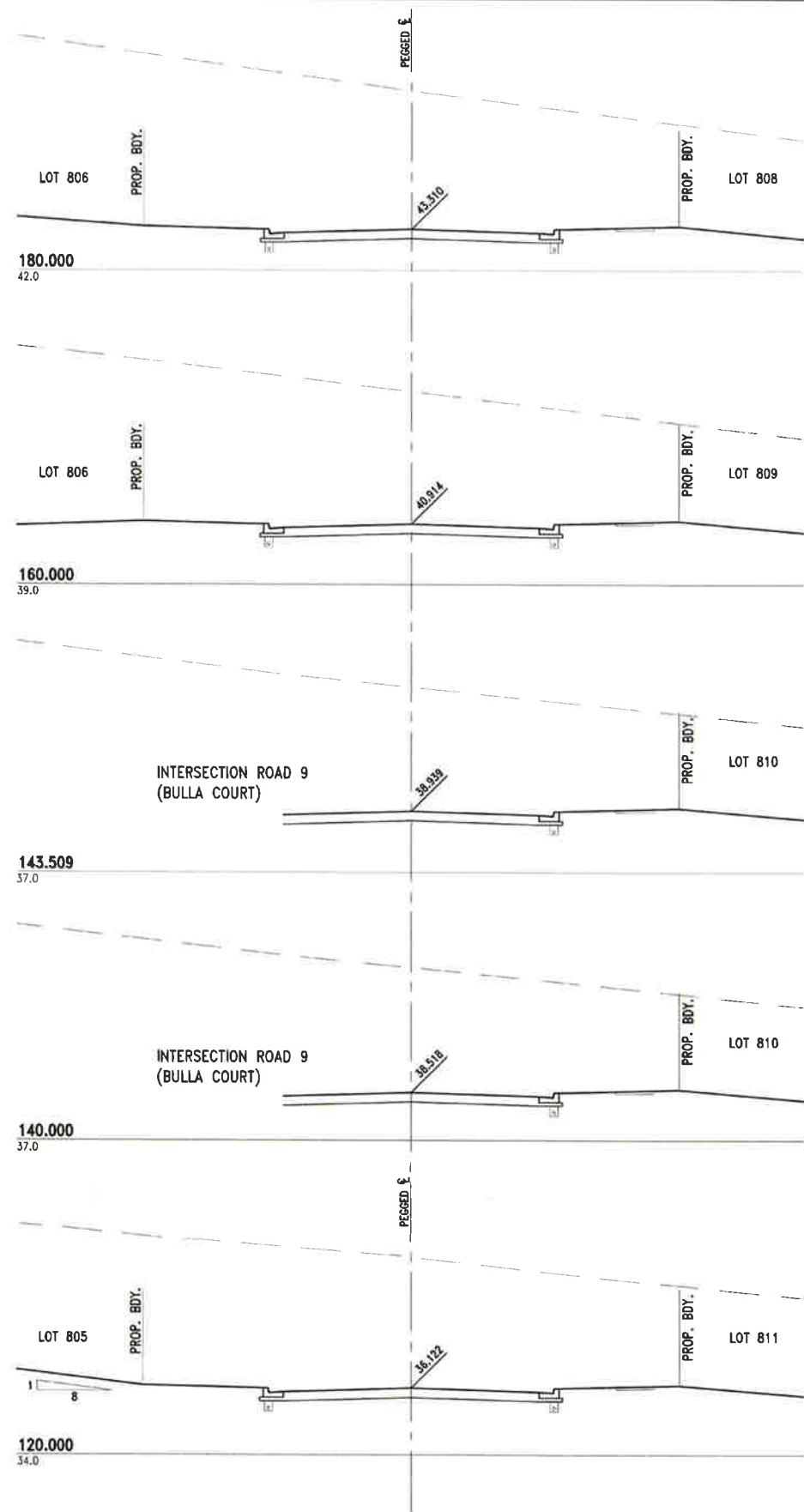
Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting 	 QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233
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NEWLAND DEVELOPERS PTY LTD	
TERRANORA PRECINCT 1	
ROAD 10 (MAWSON'S PEAK BLVD)	
CROSS SECTIONS - SHEET 1 OF 2	
09-374 24-07-2018	SK 3610 REVISION C

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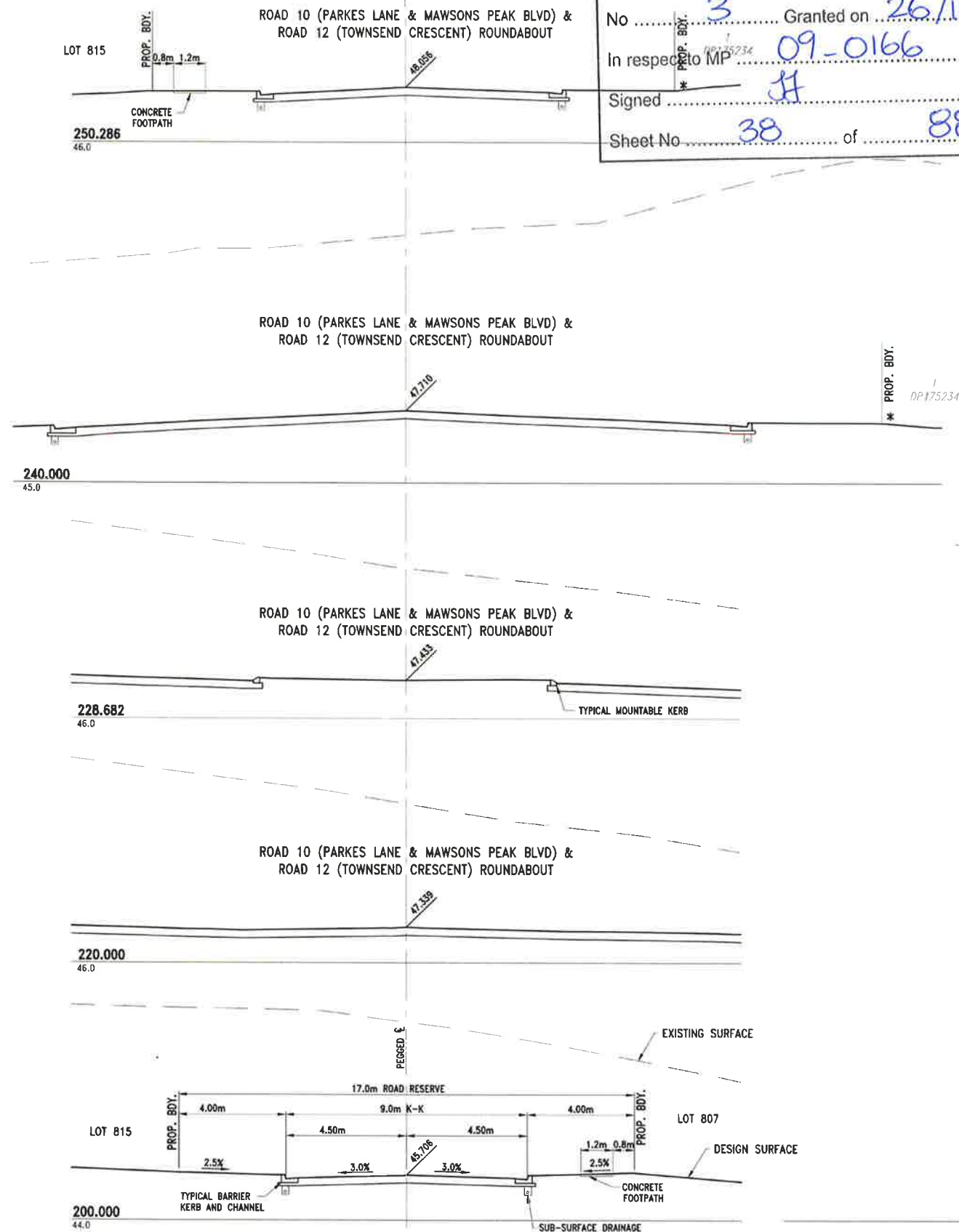
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In respect to MP 09-0166

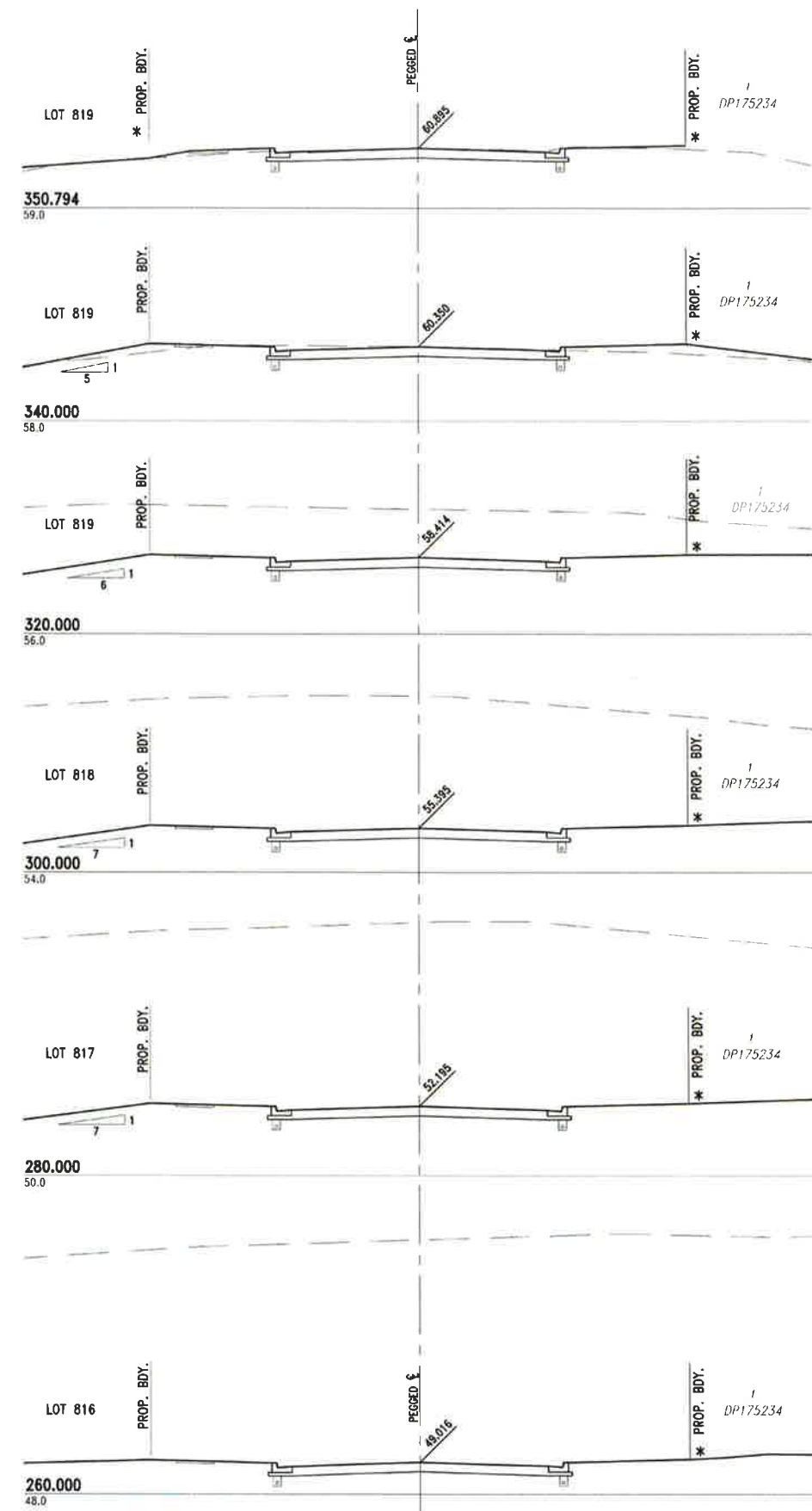
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Sheet No 38 of 88



PARKES LANE

MAWSONS PEAK BLVD



PARKES LANE

* REFER TO SKETCHES SK6524
TO SK6528 FOR
EARTHWORKS LIMITS.

NEWLAND DEVELOPERS PTY LTD

09-374
24-07-2018

TERRANORA PRECINCT 1
ROAD 10 (MAWSONS PEAK BLVD & PARKES
LANE) CROSS SECTIONS - SHEET 2 OF 2

SK 3611
REVISION C

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Email mail@bradlees.com.au

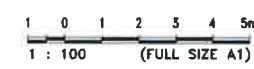
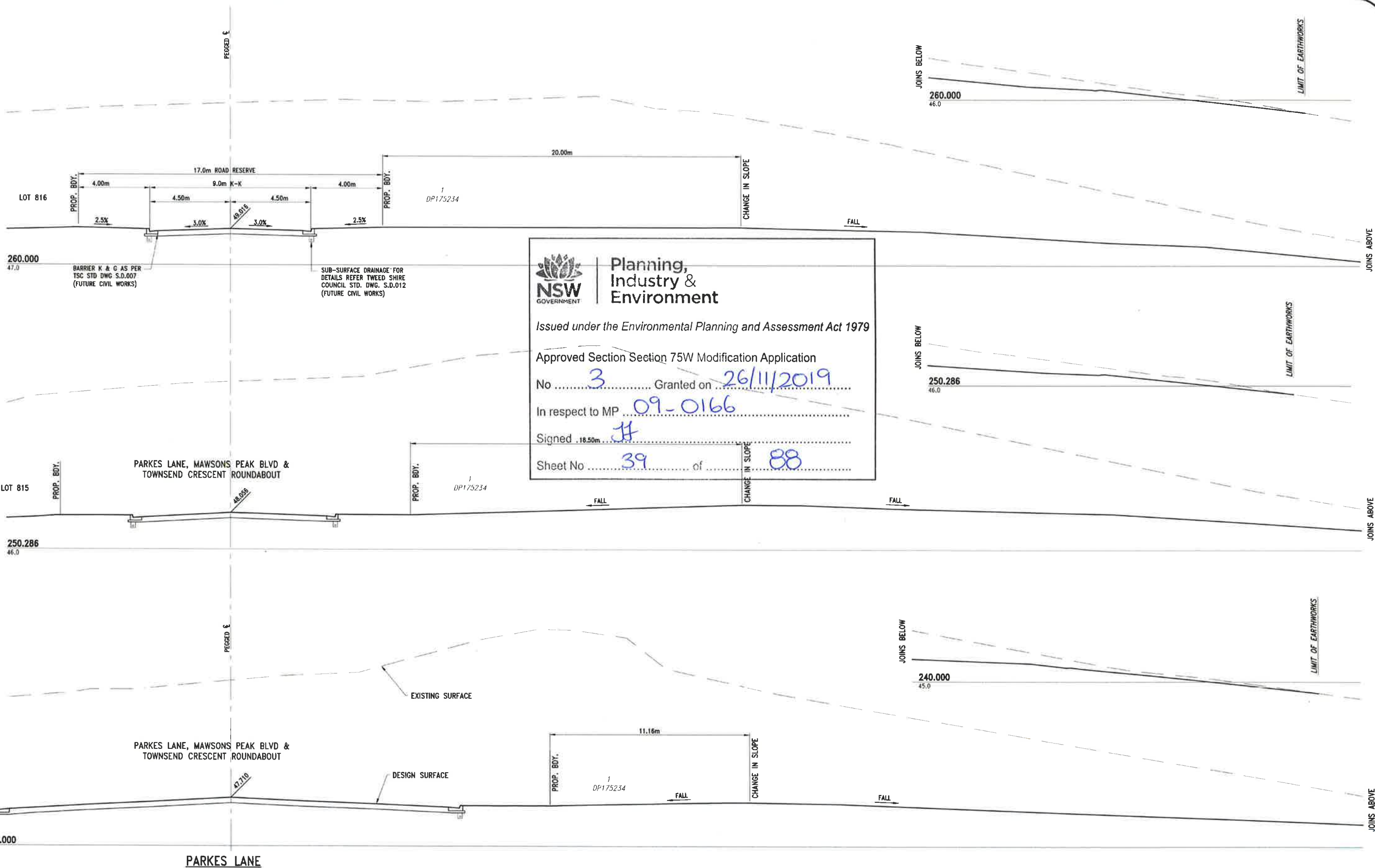
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REG. NO. 233



NEWLAND DEVELOPERS PTY LTD	09-374 06-07-2018
TERRANORA PRECINCT 1 WEST BOUNDARY ROADS CROSS SECTIONS EXTENT - SHEET 1 OF 4	SK 6525 REVISION C

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233
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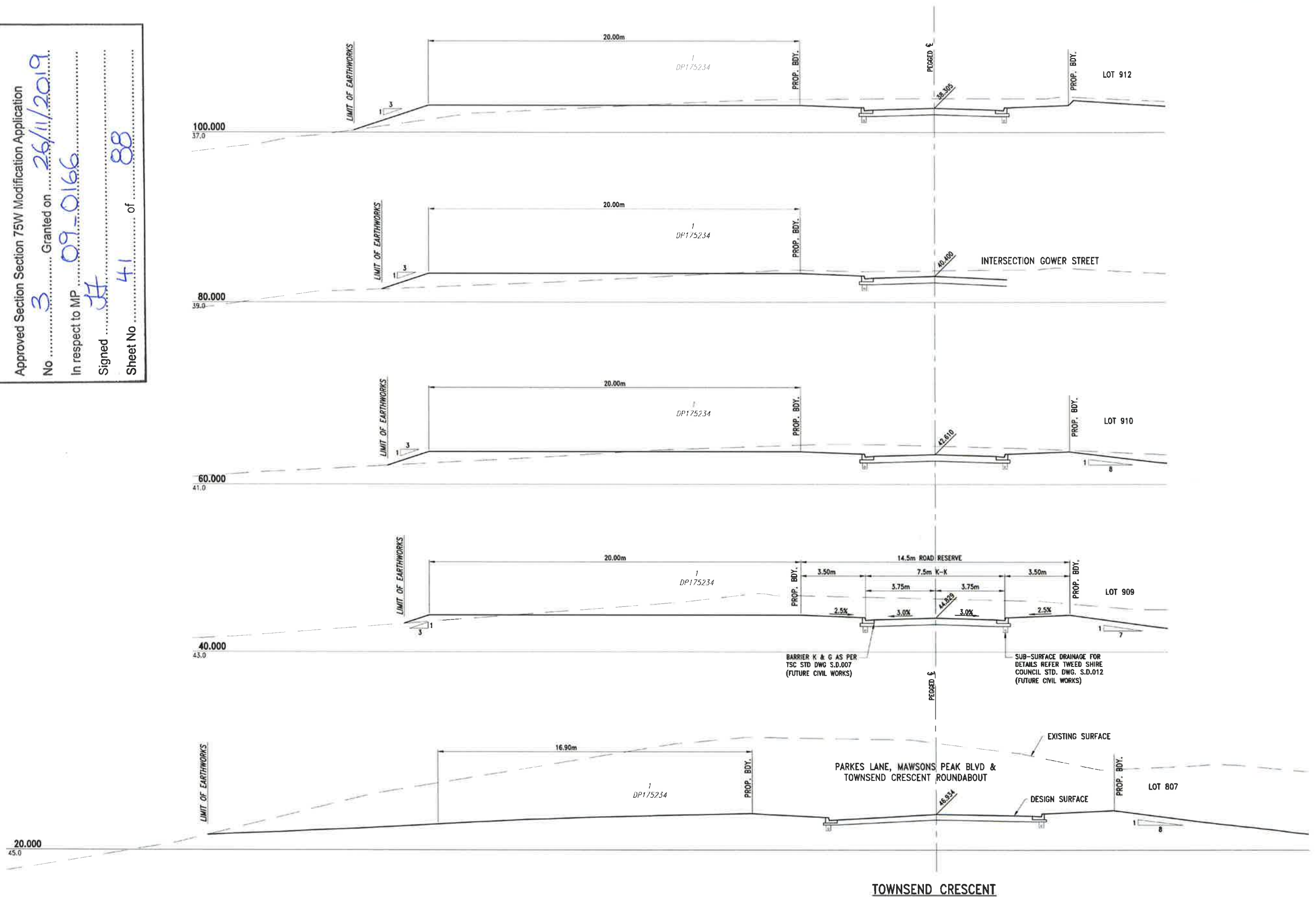
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Sheet No 41 of 88



NEWLAND DEVELOPERS PTY LTD

09-374
06-07-2018

TERRANORA PRECINCT 1
WEST BOUNDARY ROADS CROSS
SECTIONS EXTENT - SHEET 3 OF 4

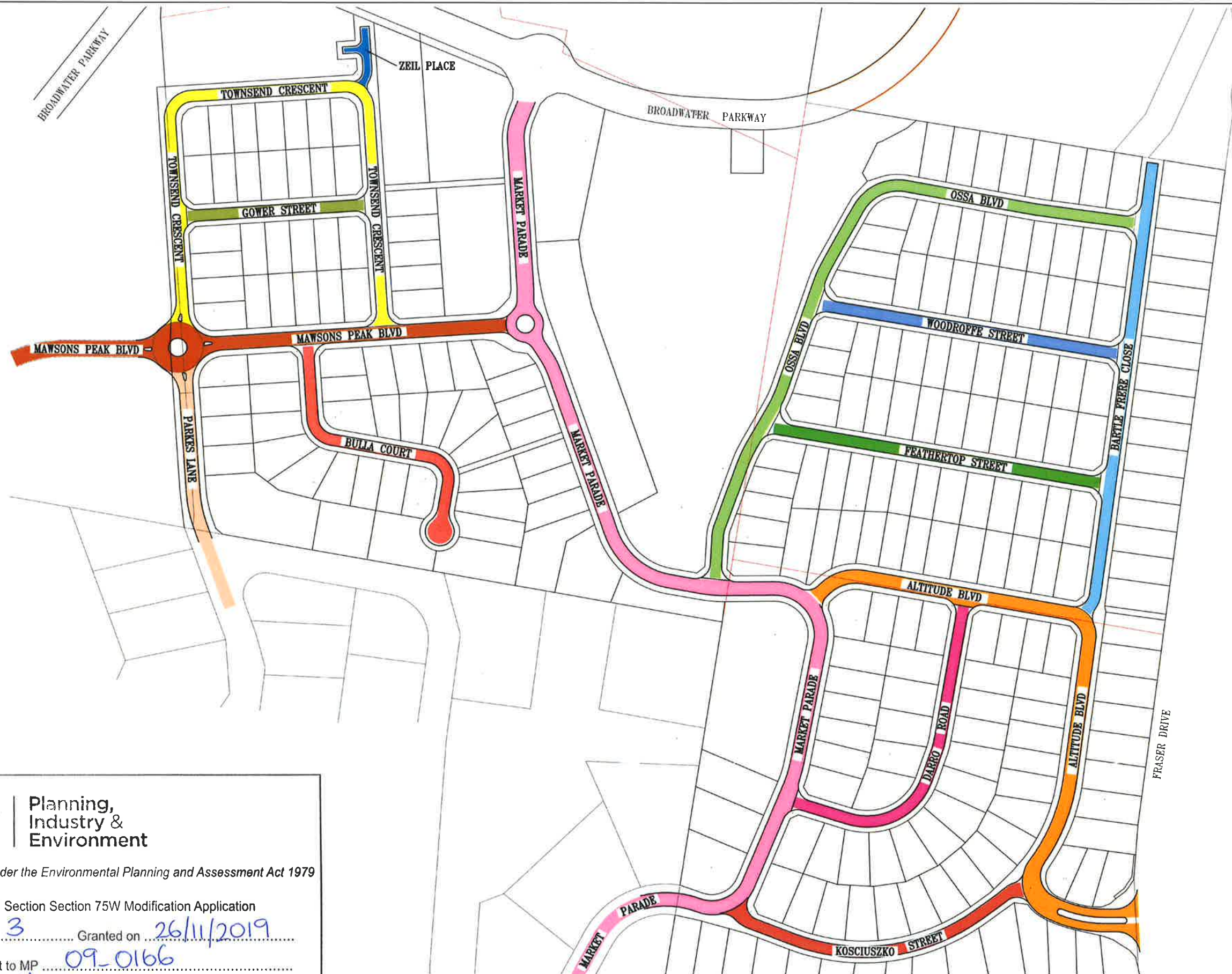
SK 6527
REVISION B

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ABN 29 064 159 191

Ph 07 5528 6411
Fax 07 5528 6422
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Email: mail@bradlees.com.au
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In respect to MP 09-0166

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Sheet No 42 of 88

PLAN LAYOUT
SCALE NTS

NEWLAND DEVELOPERS PTY LTD

09-374
06-07-2018

TERRANORA PRECINCT 1

ROAD NAMES PLAN

SK4554
REVISION F

Bradford Lees Pty Ltd
ABN 29 064 159 191

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Fax 07 5528 6422

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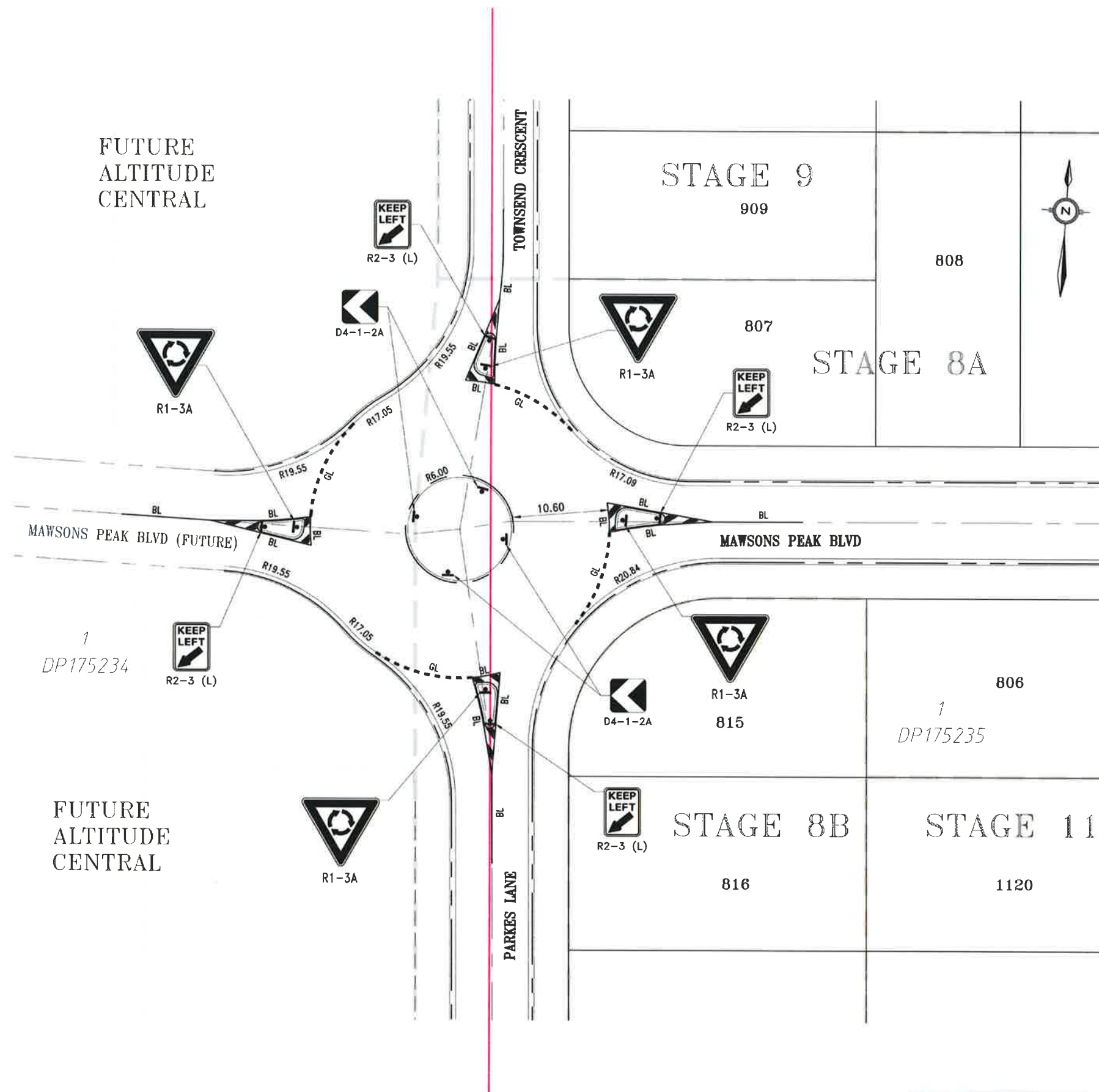
Email mail@bradlees.com.au

Postal PO Box 2293, Southport QLD 4215

Gold Coast Office Level 1 34 Thomas Drive, Chevron Island QLD 4217

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PAVEMENT-MARKING LEGEND :

CODE	LINE TYPE	LINE LENGTH	GAP	WIDTH
LL	DIVIDING LINES (TWO LANE ROADS)	3.0m	9.0m	100mm
EL	DIVIDING LINES/EDGE LINES	-	-	100mm
BL	BARRIER LINES (SINGLE)	-	-	100mm
CL	CONTINUITY LINES	1.0m	3.0m	120mm
TL	TURN LINES	0.6m	0.6m	100mm
SL	STOP LINES	-	-	300mm
GL	GIVE WAY LINES	0.6m	0.6m	300mm
BLO	BARRIER LINES (ONE DIRECTION)	-	-	100mm
BLB	BARRIER LINES (BOTH DIRECTIONS)	-	-	100mm
LLS	LANE LINES (SPECIAL)	3.0m	9.0m	100mm
BS	BUS STOP (YELLOW)	0.6m	0.3m	100mm



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LEGEND

- 12 FINISHED SURFACE CONTOURS
- NOMINAL KERB LINE
- EXISTING PARCEL BOUNDARY

LAYOUT PLAN
SCALE 1:250

1 : 250 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

09-374
06-07-2018

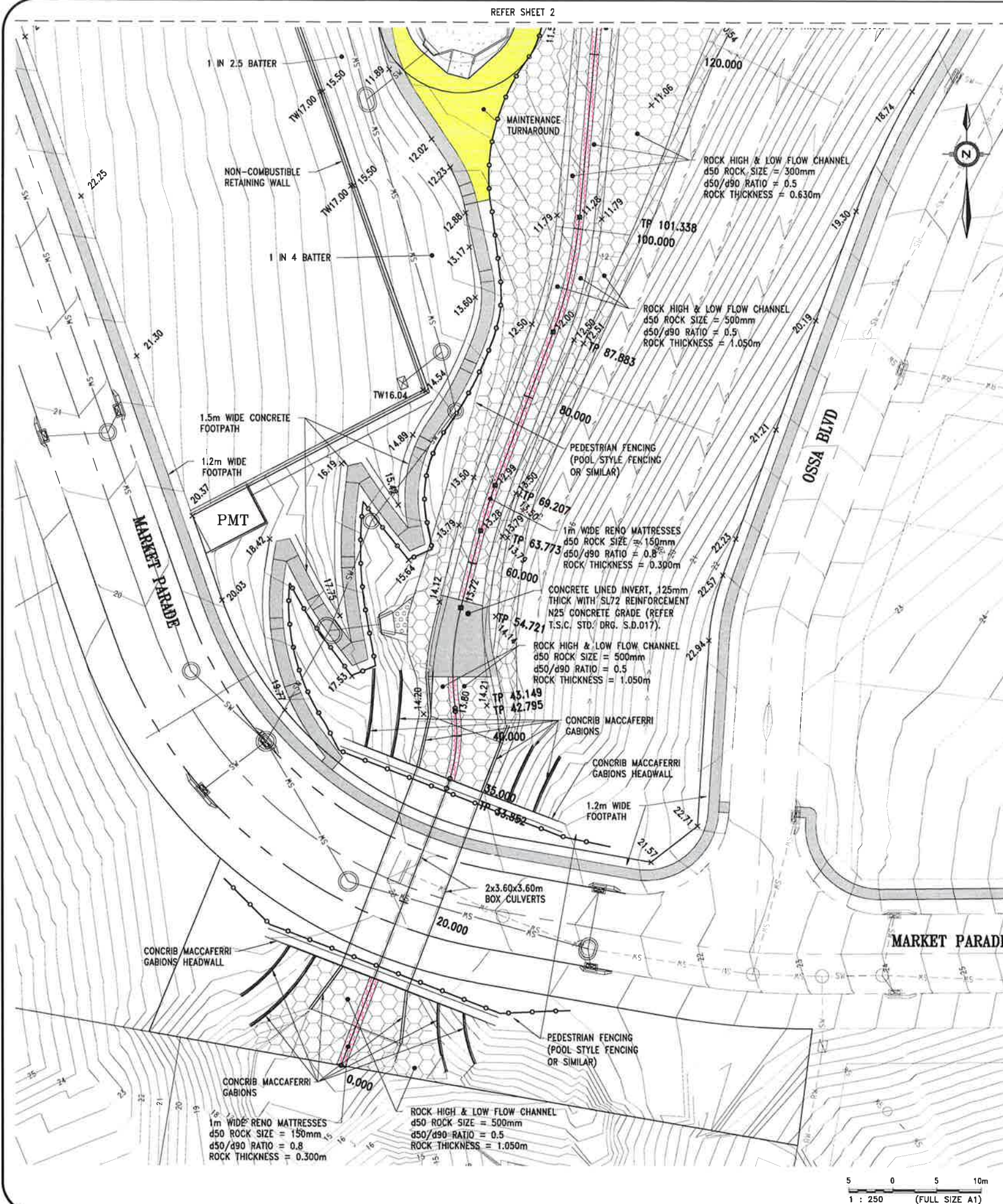
TERRANORA PRECINCT 1
EXTENT OF MAWSONS PEAK BLVD -
TOWNSEND CRESCENT ROUNDABOUT WORKS

SK 6460
REVISION B

Bradford Lees Pty Ltd
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In respect to MP 09-0166

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Sheet No 44 of 88

NEWLAND DEVELOPERS PTY LTD

09-374
26-03-2019

TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN SWALE PLAN
SHEET 1 OF 3

SK3618/1
REVISION H

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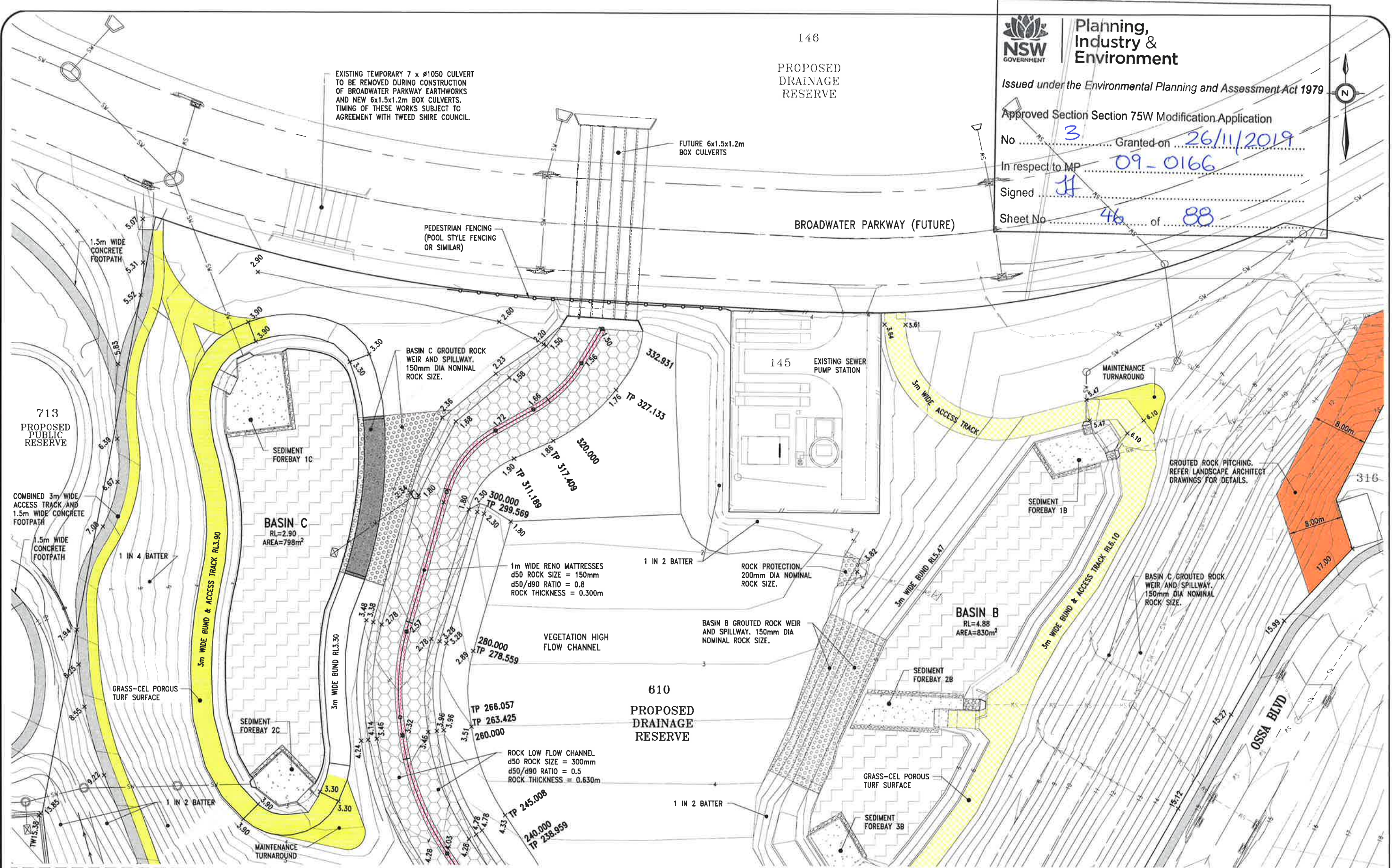
Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

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Sheet No 46 of 88



REFER SHEET 2

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1 : 250 (FULL SIZE A1)

NEWLAND DEVELOPERS PTY LTD

09-374
25-03-2019

TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN SWALE PLAN
SHEET 3 OF 3

SK3618/3
REVISION H

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Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

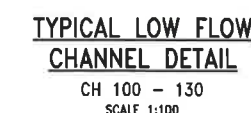
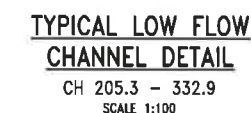
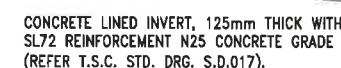
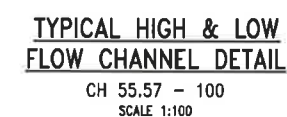
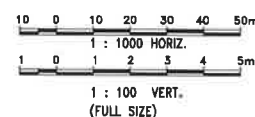
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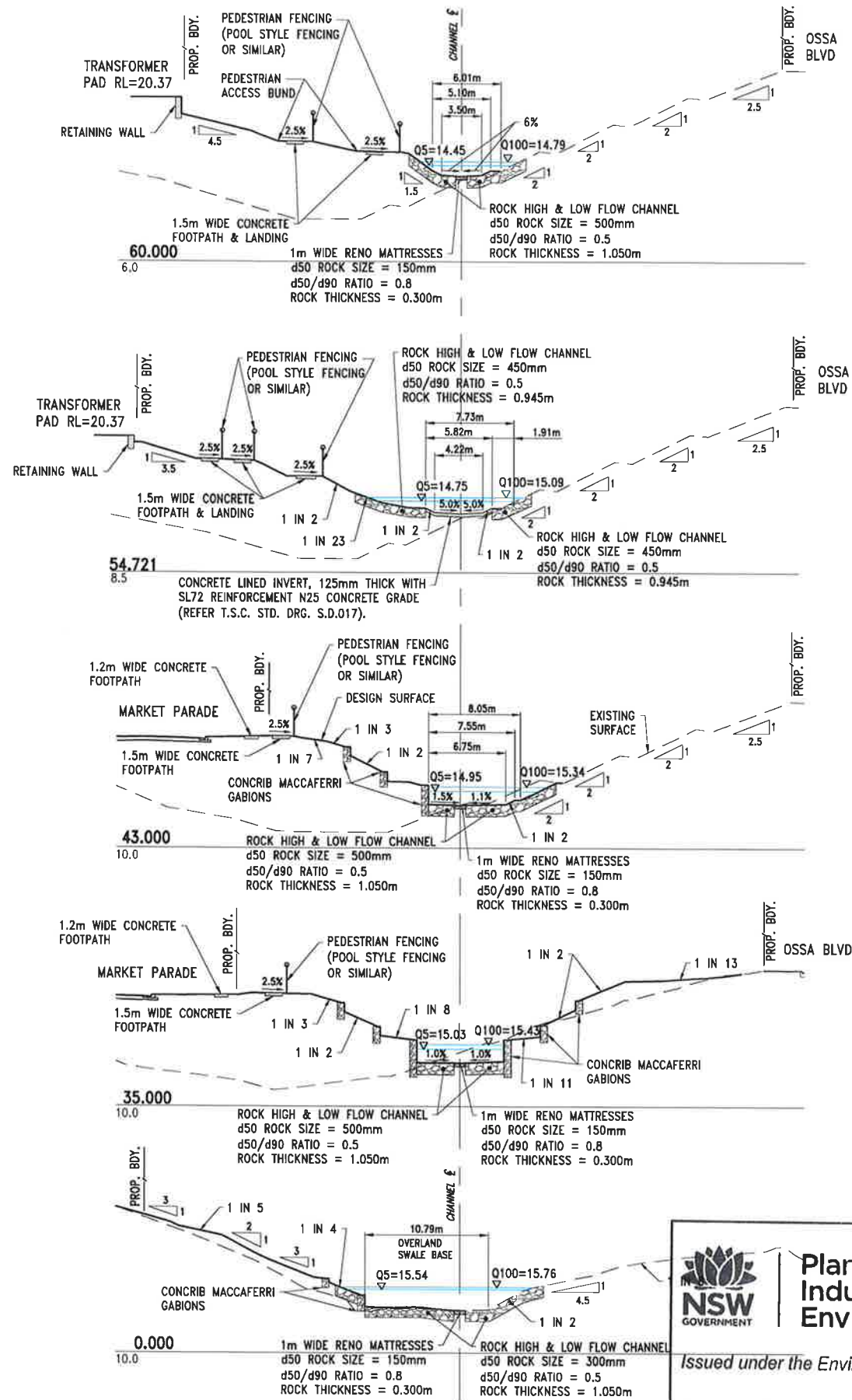


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In respect to MP 09-0166

Sheet No. 47 of 88

HORIZONTAL
CURVE DATA



NOTE:
CHANNEL ROCK (AS SPECIFIED) EXTENSION TO BE 300mm ABOVE Q100 WATER LEVEL FOR HIGH & LOW FLOW CHANNEL CHAINAGES 0-10.614 AND 35-130, UNLESS SHOWN OTHERWISE.

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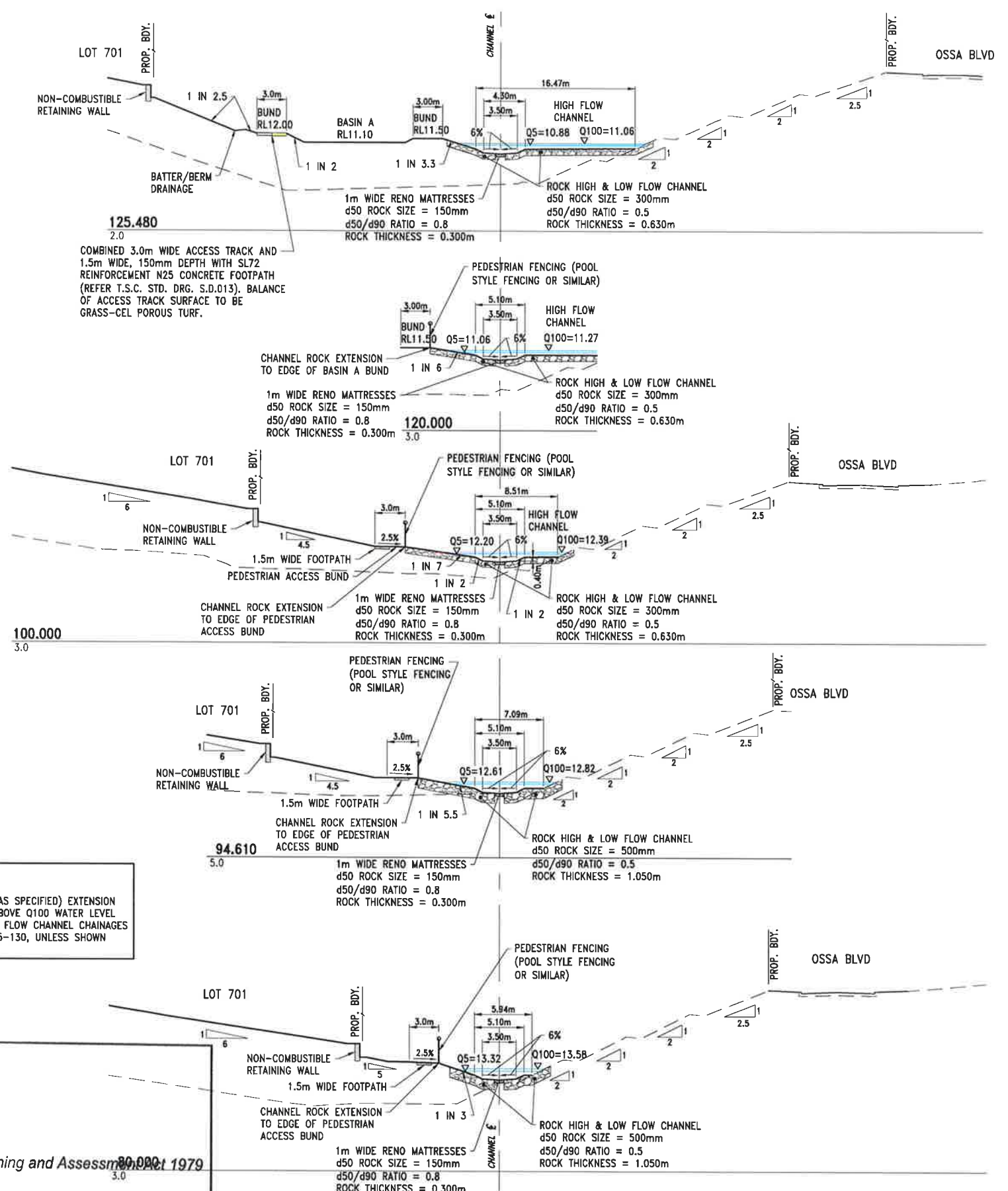
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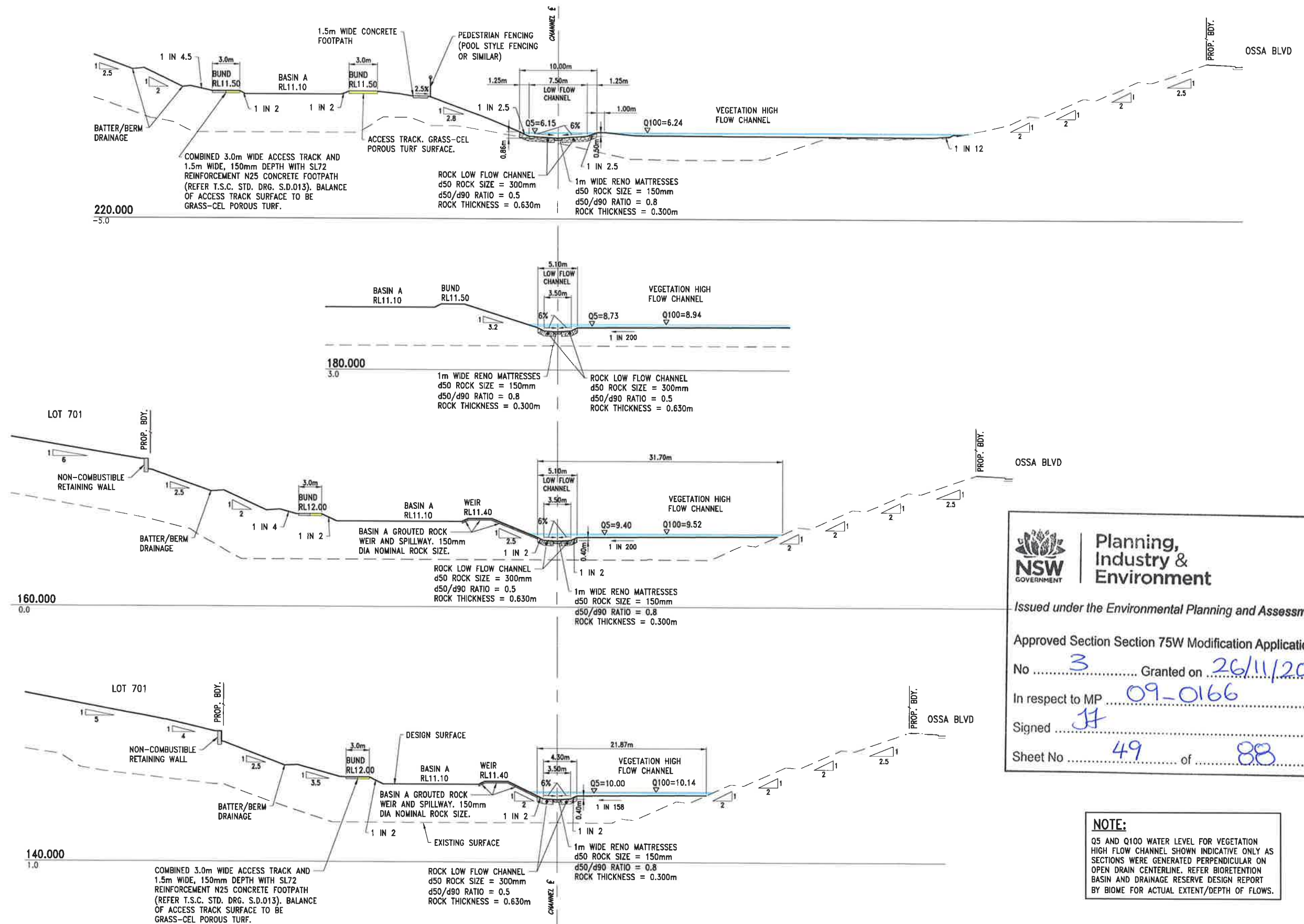
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Sheet No 48 of 88



NEWLAND DEVELOPERS PTY LTD		09-374 26-03-2019
TERRANORA PRECINCT 1		SK3620 REVISION F
CENTRAL OPEN DRAIN SWALE		Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217
CROSS SECTIONS SHEET 1 OF 6		Bradlees Civil Consulting QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 REG. NO. 233



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Sheet No 49 of 88

NOTE:

Q5 AND Q100 WATER LEVEL FOR VEGETATION HIGH FLOW CHANNEL SHOWN INDICATIVE ONLY AS SECTIONS WERE GENERATED PERPENDICULAR ON OPEN DRAIN CENTERLINE. REFER BIORETENTION BASIN AND DRAINAGE RESERVE DESIGN REPORT BY BIOME FOR ACTUAL EXTENT/DEPTH OF FLOWS.

NEWLAND DEVELOPERS PTY LTD

09-374
26-03-2019

TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN SWALE
CROSS SECTIONS SHEET 2 OF 6

SK3621
REVISION F

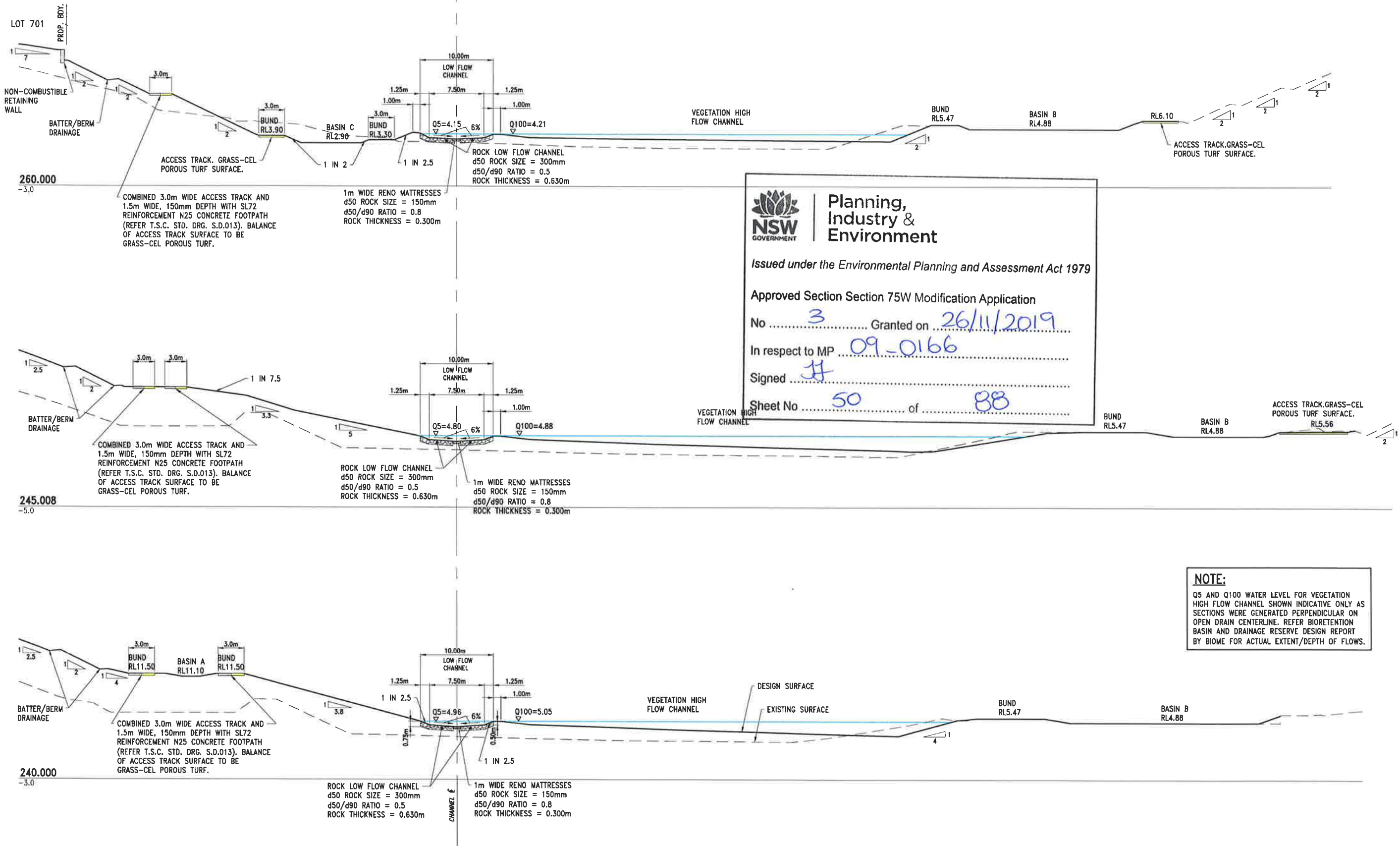
Bradford Lees Pty Ltd
ABN 29 064 159 191

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Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
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1 : 250 (FULL SIZE)



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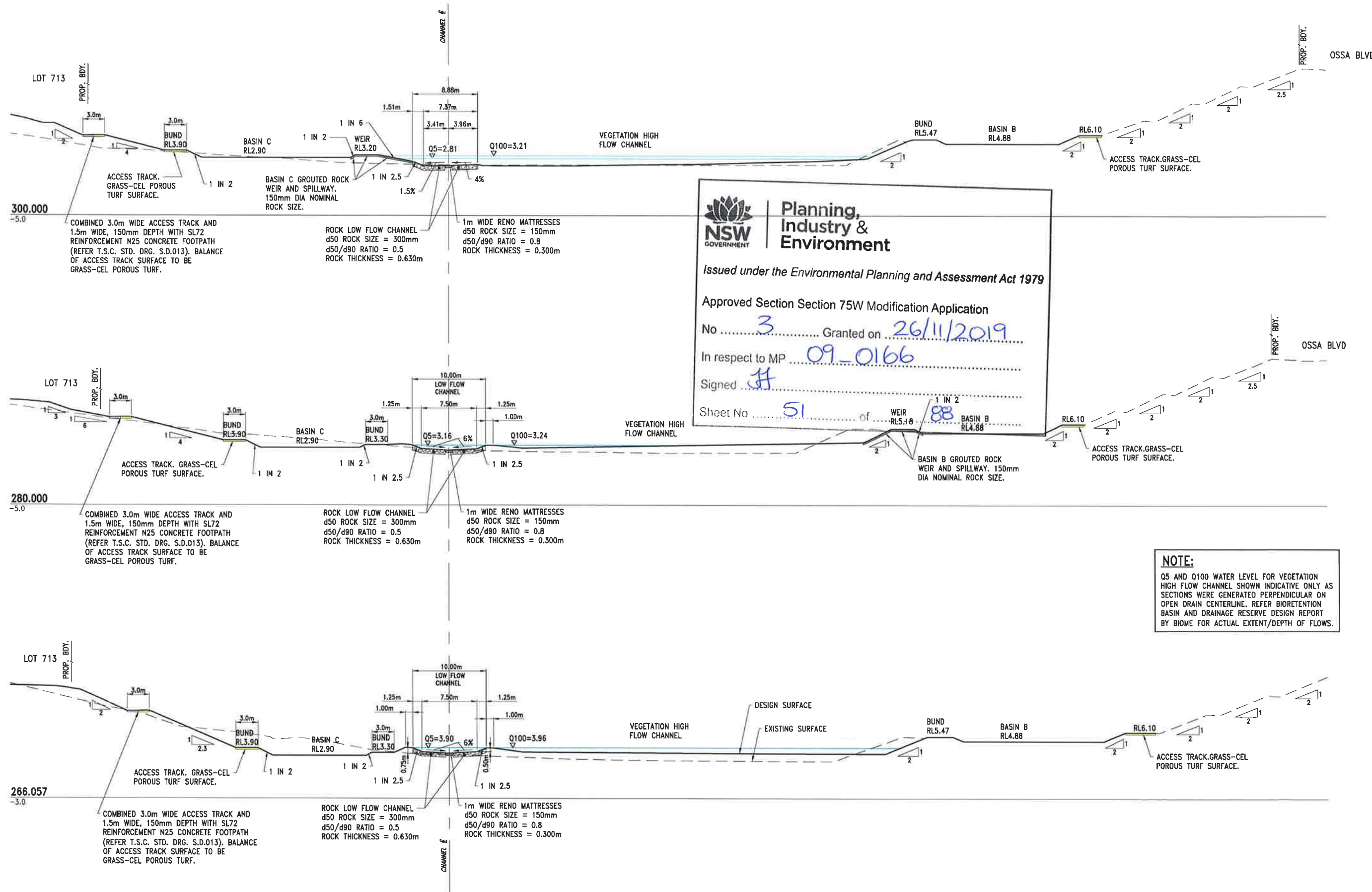
In respect to MP 09-0166

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Sheet No 50 of 88

NOTE:
Q5 AND Q100 WATER LEVEL FOR VEGETATION HIGH FLOW CHANNEL SHOWN INDICATIVE ONLY AS SECTIONS WERE GENERATED PERPENDICULAR ON OPEN DRAIN CENTERLINE. REFER BIORETENTION BASIN AND DRAINAGE RESERVE DESIGN REPORT BY BIOME FOR ACTUAL EXTENT/DEPTH OF FLOWS.

NEWLAND DEVELOPERS PTY LTD TERRANORA PRECINCT 1 CENTRAL OPEN DRAIN SWALE CROSS SECTIONS SHEET 3 OF 6	09-374 26-03-2019	Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting 	
	SK3622 REVISION F			



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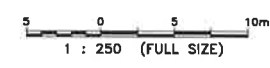
No 3 Granted on 26/11/2019

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Sheet No 51 of 88

NOTE:
Q5 AND Q100 WATER LEVEL FOR VEGETATION HIGH FLOW CHANNEL SHOWN INDICATIVE ONLY AS SECTIONS WERE GENERATED PERPENDICULAR ON OPEN DRAIN CENTERLINE. REFER BIORETENTION BASIN AND DRAINAGE RESERVE DESIGN REPORT BY BIOME FOR ACTUAL EXTENT/DEPTH OF FLOWS.



NEWLAND DEVELOPERS PTY LTD TERRANORA PRECINCT 1 CENTRAL OPEN DRAIN SWALE CROSS SECTIONS SHEET 4 OF 6	09-374 26-03-2019 SK3623 REVISION F	Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217
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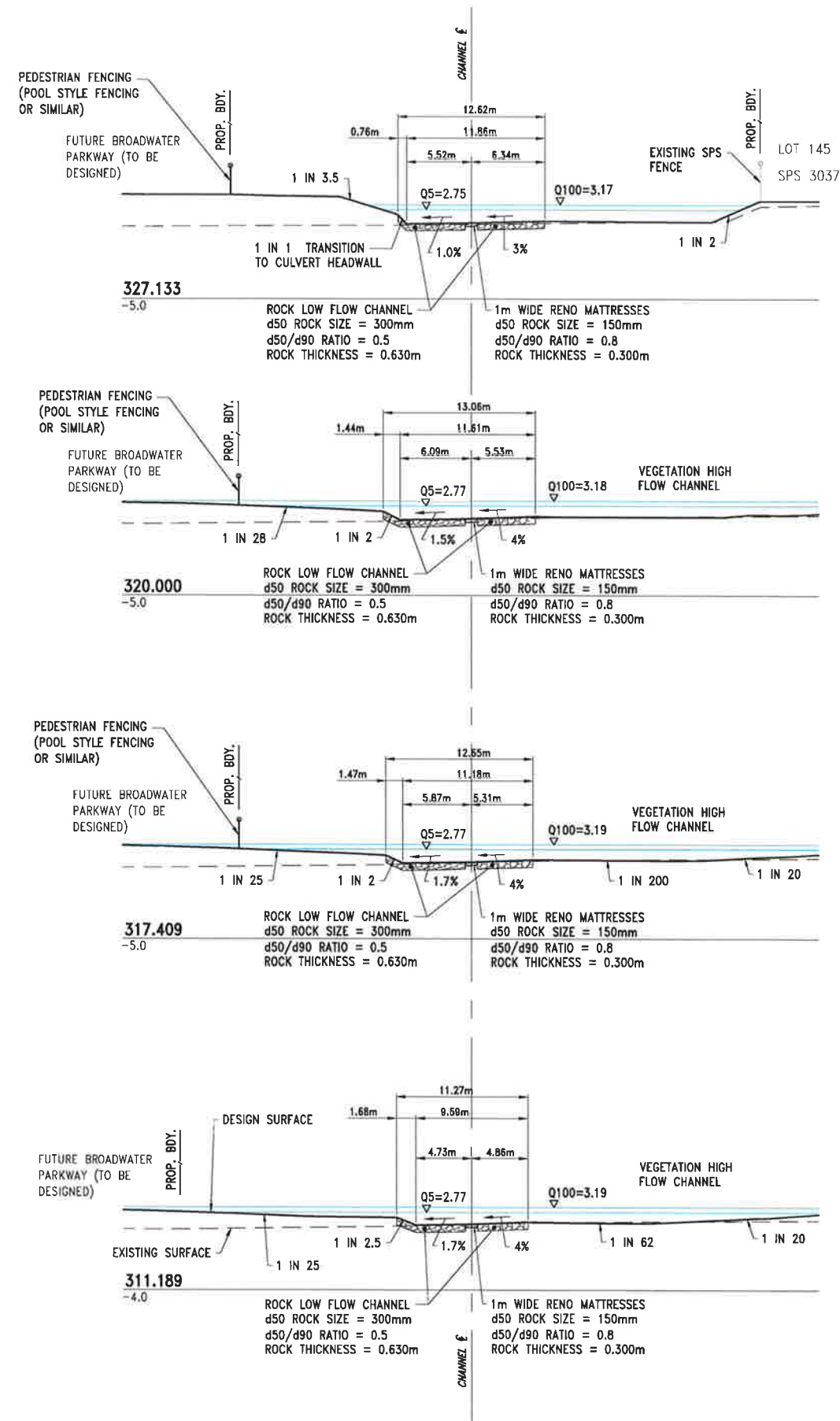
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No 3 Granted on 26/11/2019

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Sheet No 52 of 88



NOTE:

Q5 AND Q100 WATER LEVEL FOR VEGETATION HIGH FLOW CHANNEL SHOWN INDICATIVE ONLY AS SECTIONS WERE GENERATED PERPENDICULAR ON OPEN DRAIN CENTERLINE. REFER BIORETENTION BASIN AND DRAINAGE RESERVE DESIGN REPORT BY BIOME FOR ACTUAL EXTENT/DEPTH OF FLOWS.

NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN SWALE
CROSS SECTIONS SHEET 5 OF 6

09-374
26-03-2019

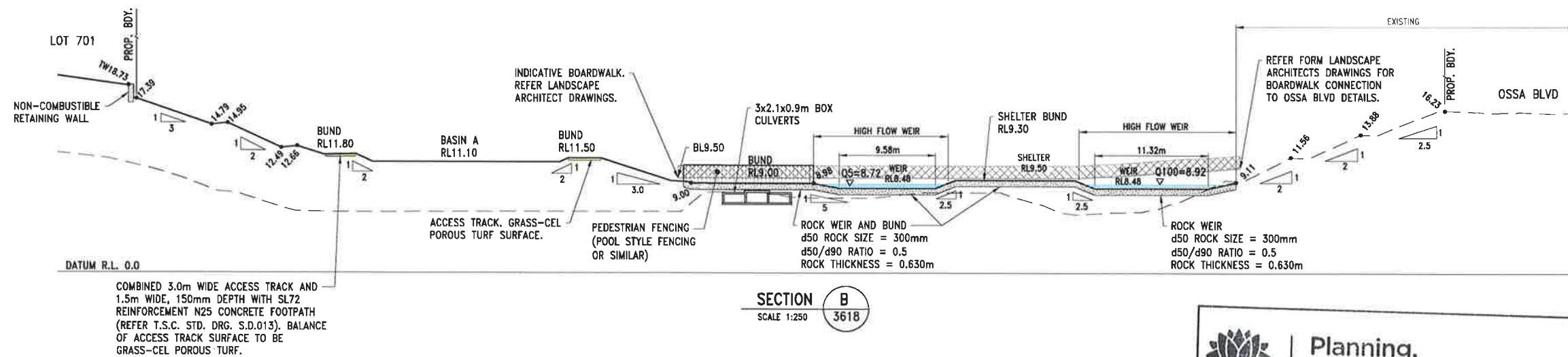
SK3624
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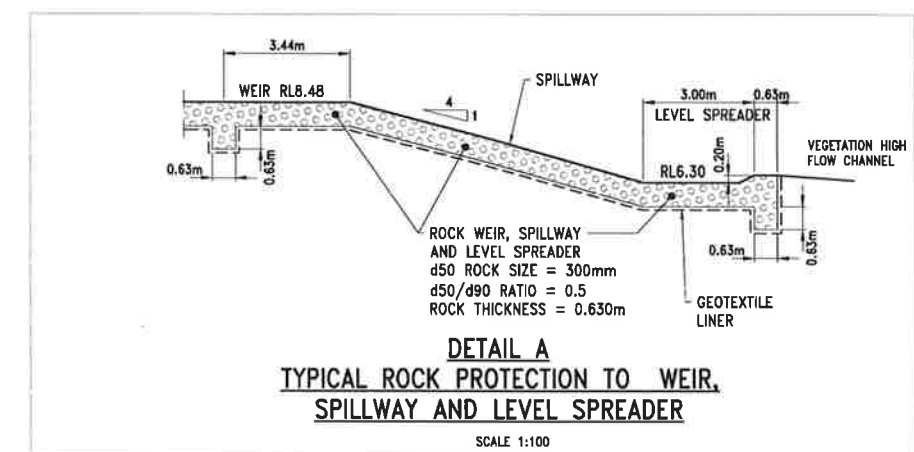
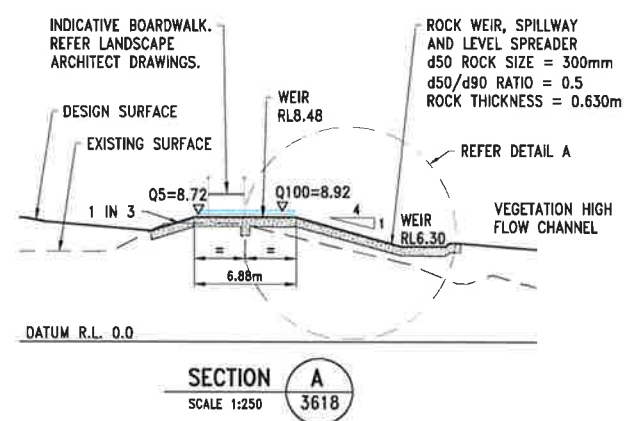




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5 0 5 10m
1 : 250 (FULL SIZE)

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TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN SWALE
CROSS SECTIONS SHEET 6 OF 6

09-374
26-03-2019

SK3625
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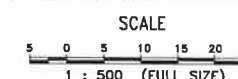
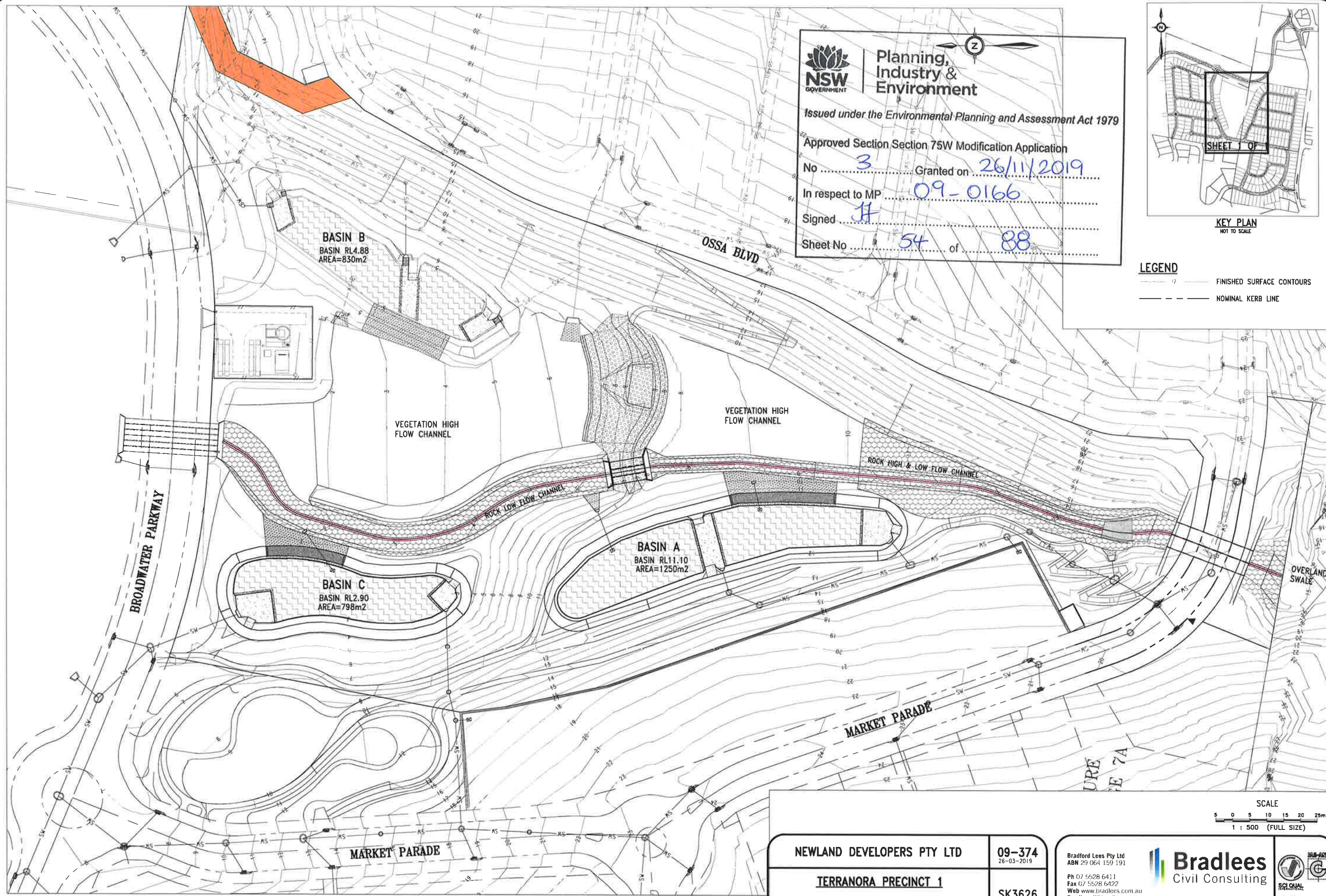
Sheet No 54 of 88



KEY PLAN
NOT TO SCALE

LEGEND

- FINISHED SURFACE CONTOURS
- NOMINAL KERB LINE



NEWLAND DEVELOPERS PTY LTD	09-374 26-03-2019
TERRANORA PRECINCT 1	SK3626 REVISION F
WATER QUALITY TREATMENT AREAS	

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting QUALITY ASSURED COMPANY AS/NZS ISO 9001:2008 MEM. NO. 233
--	--



Planning,
Industry &
Environment

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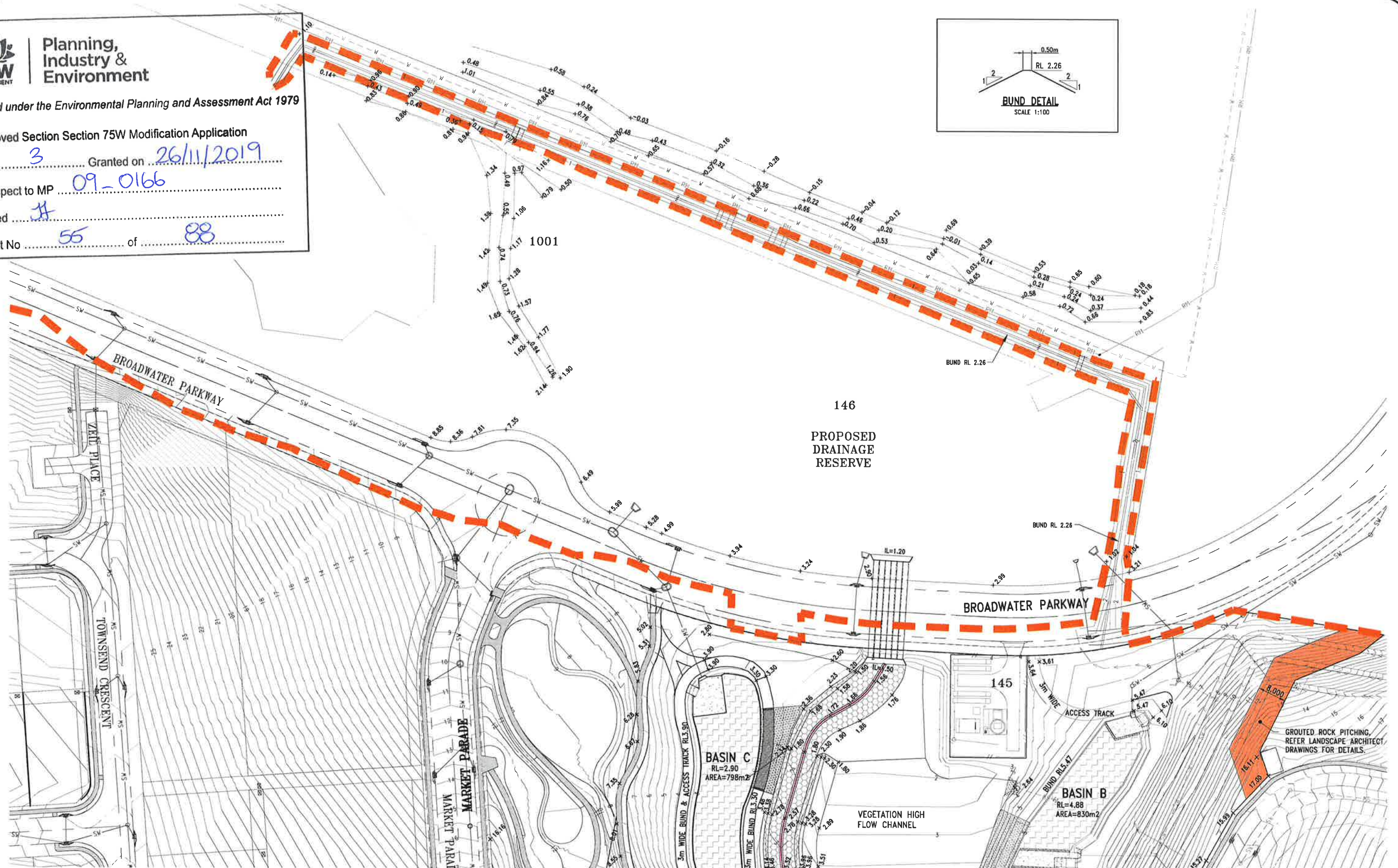
Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed H

Sheet No 55 of 88



5 0 5 10 15 20 25m
1 : 500 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
CENTRAL OPEN DRAIN
SWALE BUND

09-374
26-03-2019

SK 4038
REVISION E

Bradford Lees Pty Ltd
ABN 29 064 159 191

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Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

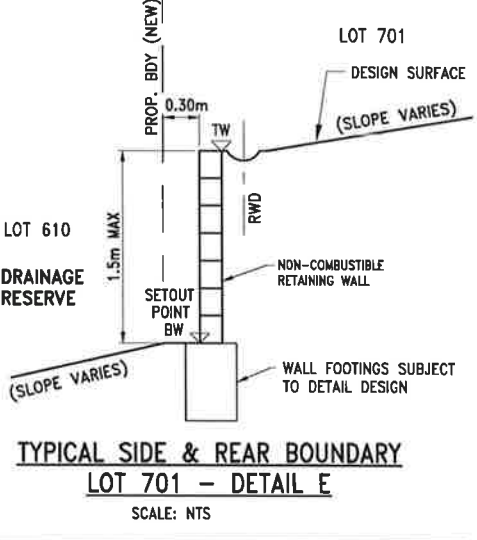
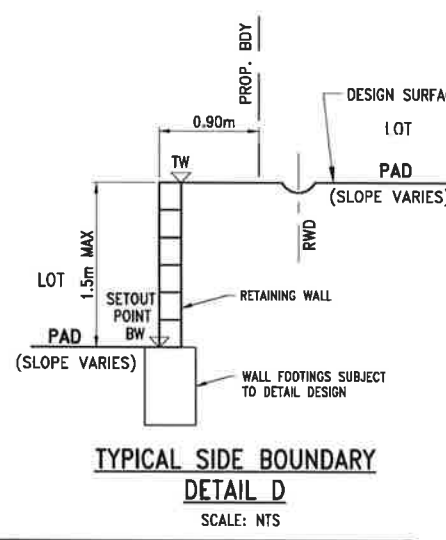
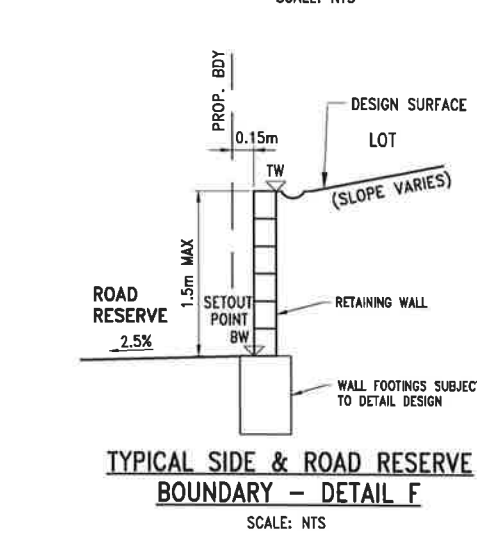
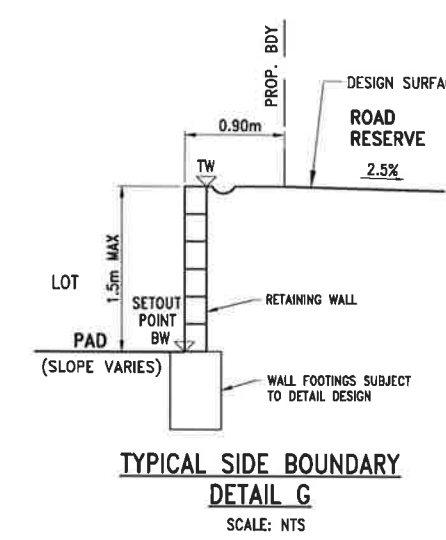
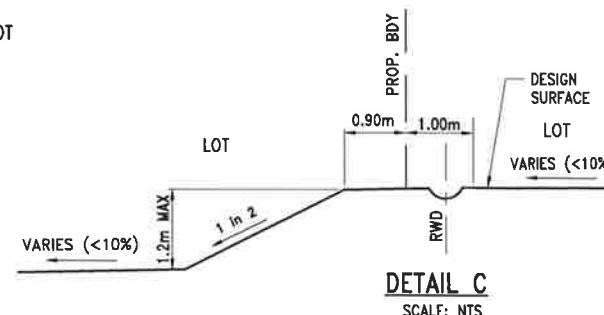
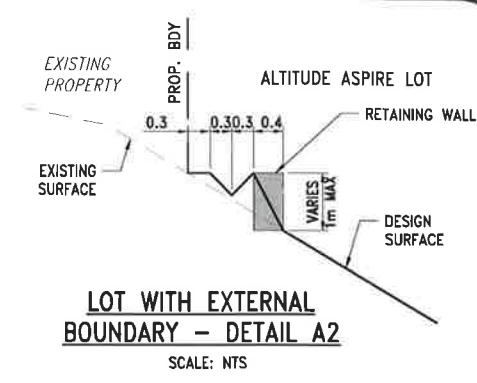
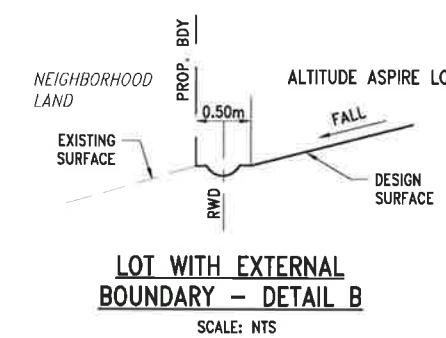
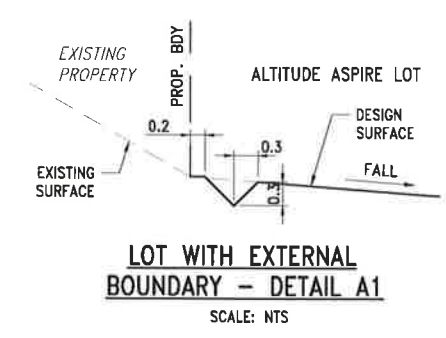
Bradlees
Civil Consulting





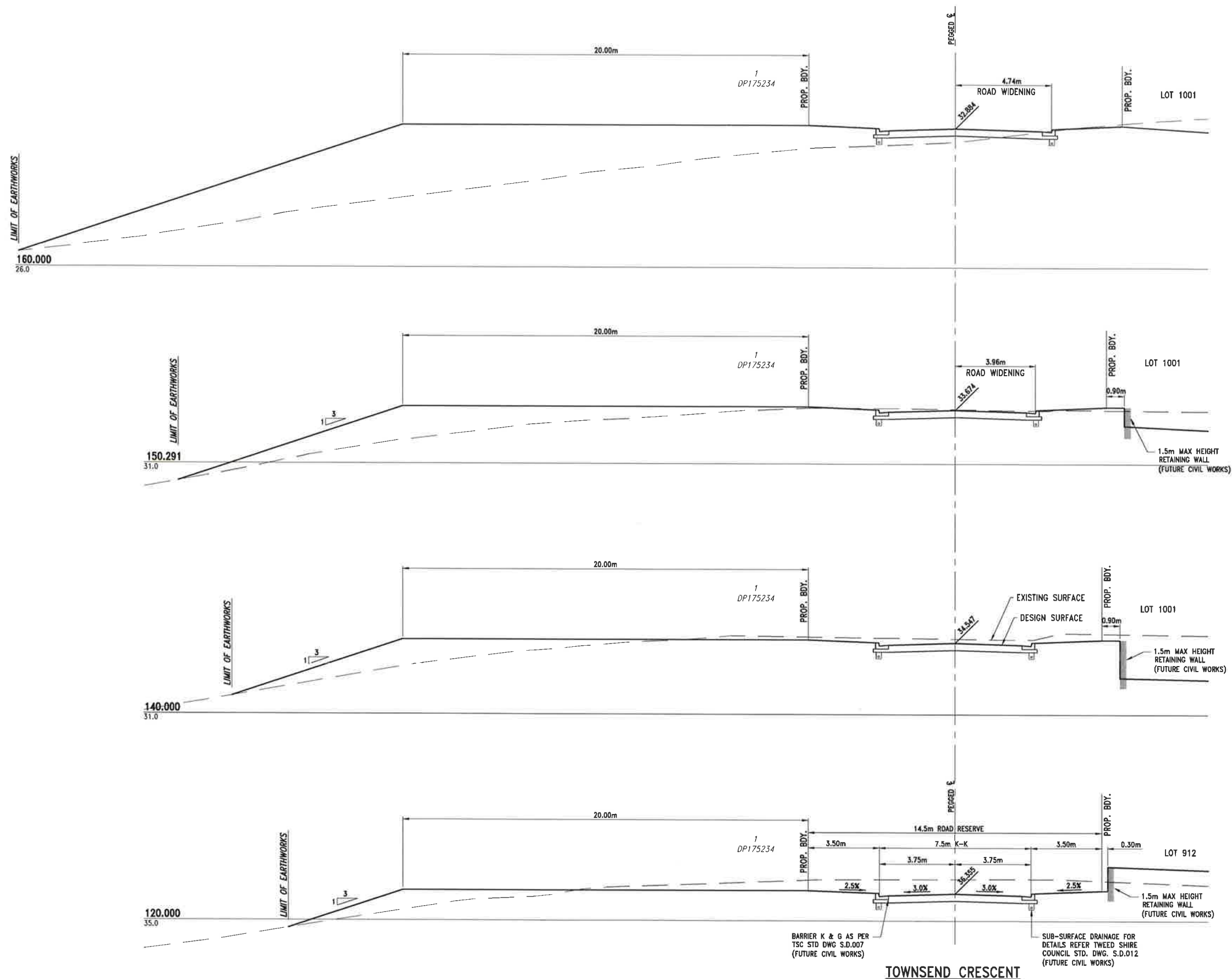
NSW GOVERNMENT
Planning, Industry & Environment
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 Approved Section 75W Modification Application
 No 3 Granted on 26/11/2019
 In respect to MP 09-0166
 Signed [Signature]
 Sheet No 56 of 88

- LEGEND**
- 15 FINISHED SURFACE CONTOURS
 - LIMITS OF EARTHWORKS
 - WALL 1.5m HIGH (MAX)
 - WALL 1m HIGH (MAX)



NEWLAND DEVELOPERS PTY LTD	09-374 26-03-2019
TERRANORA PRECINCT 1 RETAINING WALL LAYOUT	SK 3617 REVISION H

Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting 	
--	---	--



TOWNSEND CRESCENT

1 0 1 2 3 4 5m
1 : 100 (FULL SIZE A1)

NEWLAND DEVELOPERS PTY LTD

09-374
26-03-2019

TERRANORA PRECINCT 1
WEST BOUNDARY ROADS CROSS
SECTIONS EXTENT - SHEET 4 OF 4

SK 6528
REVISION C

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No 3 Granted on 26/11/2019

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Sheet No 58 of 88

LEGEND

--- STAGE BOUNDARY

NEWLAND DEVELOPERS PTY LTD TERRANORA PRECINCT 1 PROPOSED STAGING UPDATES	09-374 26-03-2019	Bradlees Civil Consulting Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2293, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	
	SK6596 REVISION D		



LAYOUT PLAN
SCALE 1:2000

20 0 20 40 60 80 100m
1 : 2000 (FULL SIZE A1)



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No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 59 of 88

LEGEND

- STAGE BOUNDARY
- AREAS OF PROPOSED CHANGES FOR
CONSENT MODIFICATION 3

NEWLAND DEVELOPERS PTY LTD

09-374
26-03-2019

TERRANORA PRECINCT 1
AREAS OF PROPOSED CHANGES FOR
CONSENT MODIFICATION 3

SK 6622
REVISION C

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ABN 29 064 159 191

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Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

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Civil Consulting





STRUCTURE No.
COVER
TYPE
DROP

PROVIDE CONCRETE BULKHEADS AND TRENCHSTOPS AS PER TSC STD. DRG. S.D.276. ALL SEWER TRENCH DRAINAGE SYSTEMS AS PER WSA02-2002 SEW-1206 AND 1207.

HOUSE CONNECTION CHAINAGE/TYPICAL DEPTH

LEGEND:
SEWER STRUCTURE LIDS TYPES

B	DUCTILE IRON NON-TRAFFICABLE LID
D	DUCTILE IRON TRAFFICABLE LID

SEWER STRUCTURE TYPES

G	TYPE "G" 1100mm DIA. MAINTENANCE HOLE IN ACCORDANCE WITH AS 4198
H	TYPE "H" 1200mm DIA. MAINTENANCE HOLE IN ACCORDANCE WITH AS 4198
F	TYPE "F" 1500mm DIA. MAINTENANCE HOLE IN ACCORDANCE WITH AS 4198
TMS	TERMINAL MAINTENANCE SHAFT IN ACCORDANCE WITH WSA STD DRG SEW-1316

SEWER STRUCTURE DROPS

A	STRAIGHT THROUGH SEWER TYPE "A" 30mm - 150mm
D	EXTERNAL BACKDROP TYPE "D" >460mm

SEWER PROPERTY CONNECTION TYPES

A	150 - 300mm SLOPED H.C. BRANCH TYPE "A"
B	300 - 800mm SLOPED H.C. BRANCH TYPE "B"
C1	> 800mm VERTICAL H.C. BRANCH TYPE "C1"

FOR ALL H.C. DETAILS REFER T.S.C. STD DWG SD-250 & SD-291

TRENCHSTOPS/BULKHEADS

DATUM
PROPERTY DESCRIPTION
EMBEDMENT TYPE
DIAMETER & CLASS
GRADE
LENGTH

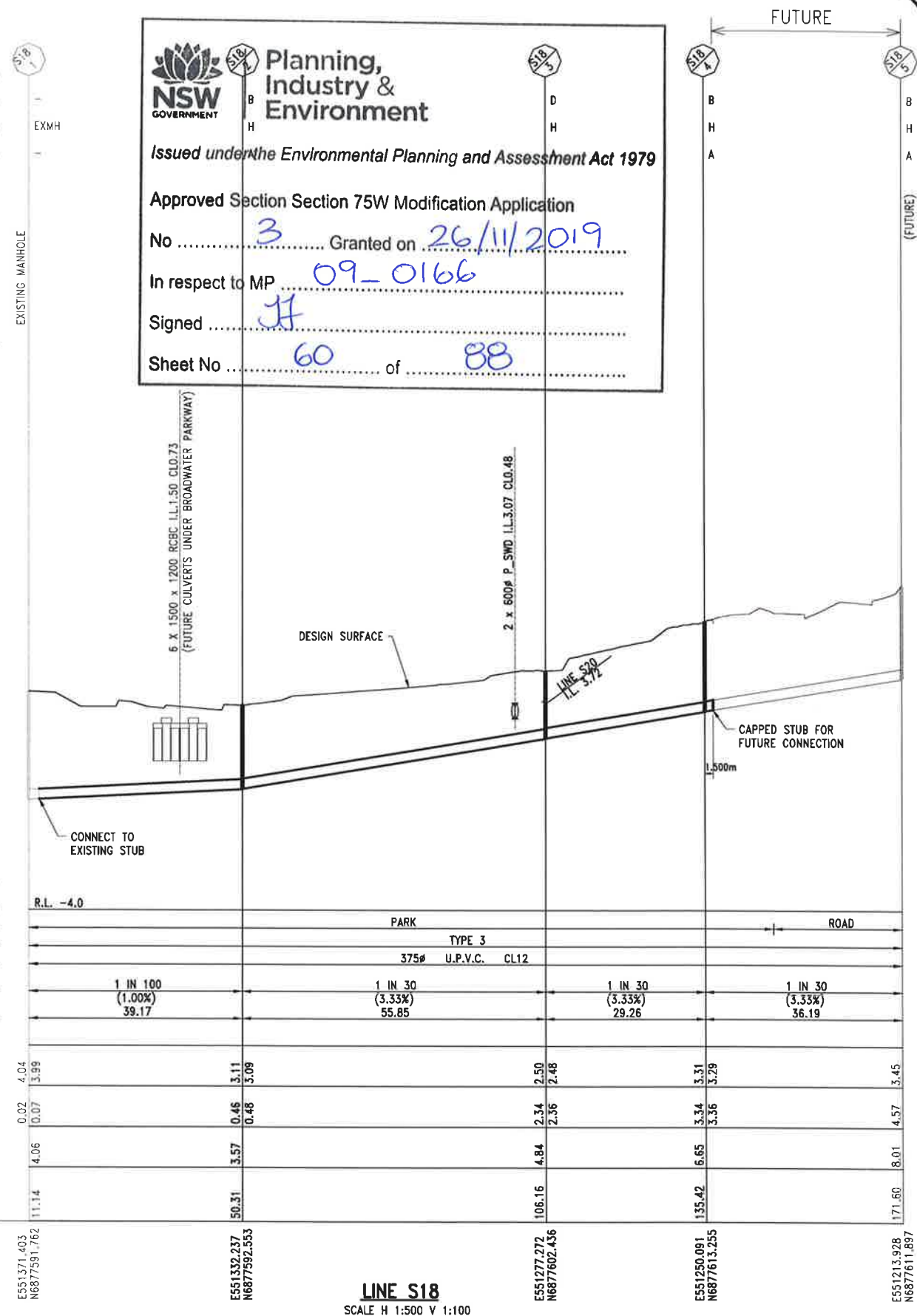
DEPTH TO INVERT
INVERT LEVEL
SURFACE LEVEL
CHAINAGE

STRUCTURE LOCATION

5 0 5 10 15 20 25m
1 : 500 HORIZ.
1 0 1 2 3 4 5m
1 : 100 VERT.
(FULL SIZE)

SEWER RETICULATION PLAN

5 0 5 10 15 20 25m
1 : 500 (FULL SIZE A1)



NEWLAND DEVELOPERS PTY LTD
09-374
26-03-2019

TERRANORA PRECINCT 1
LOT 610 SEWER RETICULATION PLAN
AND TRUNK SEWER LONG. SECTION

SK 6978
REVISION A

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AS/NZS ISO 9001:2008
REG. NO. 133



LEGEND

LOT 712
 SITE AREA: 4499m²
 SITE YIELD: 10 dwellings

- PEDESTRIAN ACCESS
- CAR PARK ACCESS
- CAR PARK
- CAR PARK (UNDER)

Planning,
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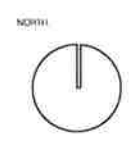
Signed JH

Sheet No 61 of 88

NEWLAND DEVELOPERS

MEDIUM DENSITY - LOT 712
 PROJECT NUMBER
 130300
 SCALE
 1:500@A3
 DATE
 FEBRUARY 2015

SK.0009
 ISSUE:
 A

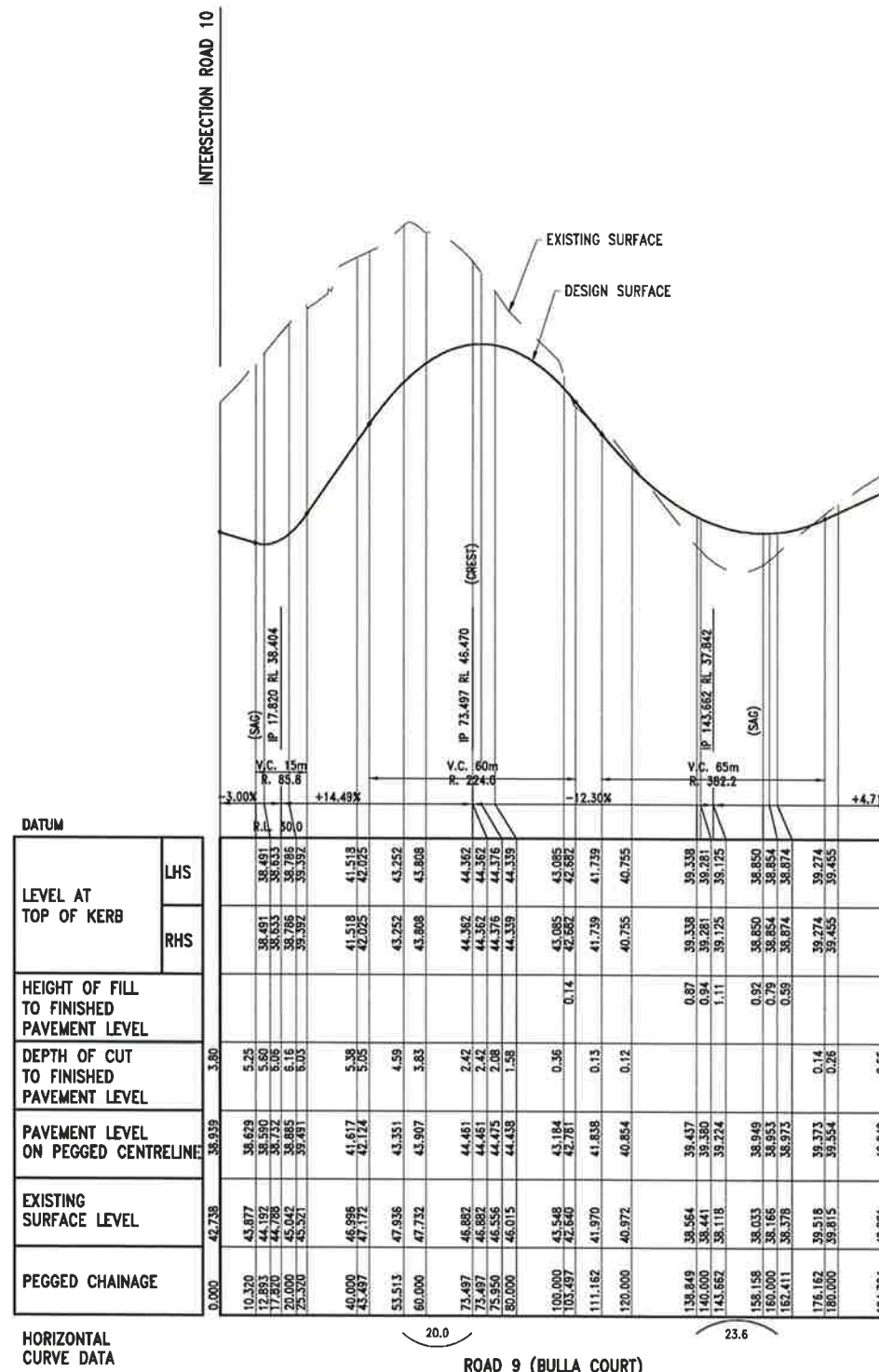


LOCAL OFFICE
 ARCHITECTURE

PO Box 536
 COOLANGATTA QLD 4225
 m. 0400 904 107
 e. cameron@local-office.com.au

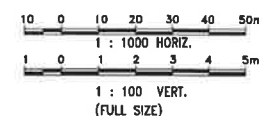


0 2 5 15m



HORIZONTAL
CURVE DATA

20.0
23.6



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In respect to MP 09-0166

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Sheet No 62 of 88

NEWLAND DEVELOPERS PTY LTD TERRANORA PRECINCT 1 ROAD 9 LONGITUDINAL SECTION		09-374 09-07-2019 SK 3608 REVISION C	Bradford Lees Pty Ltd ABN 29 064 159 191 Ph 07 5528 6411 Fax 07 5528 6422 Web www.bradlees.com.au Email mail@bradlees.com.au Postal PO Box 2295, Southport QLD 4215 Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217	Bradlees Civil Consulting
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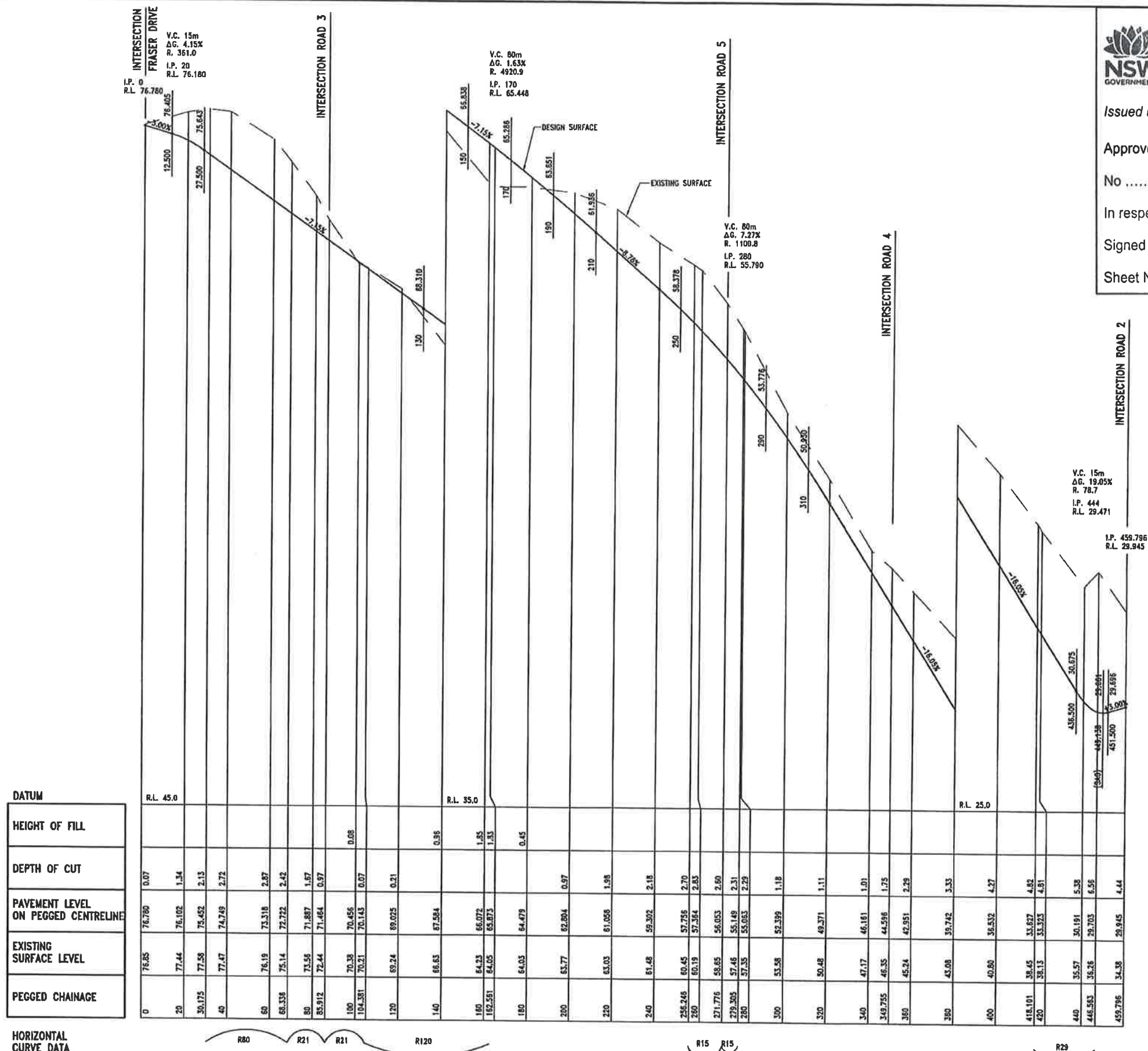
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No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 63 of 88



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 1
LONGITUDINAL SECTION

09-374
07-01-2013

SK 3586
REVISION B

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Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting





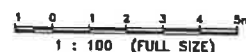
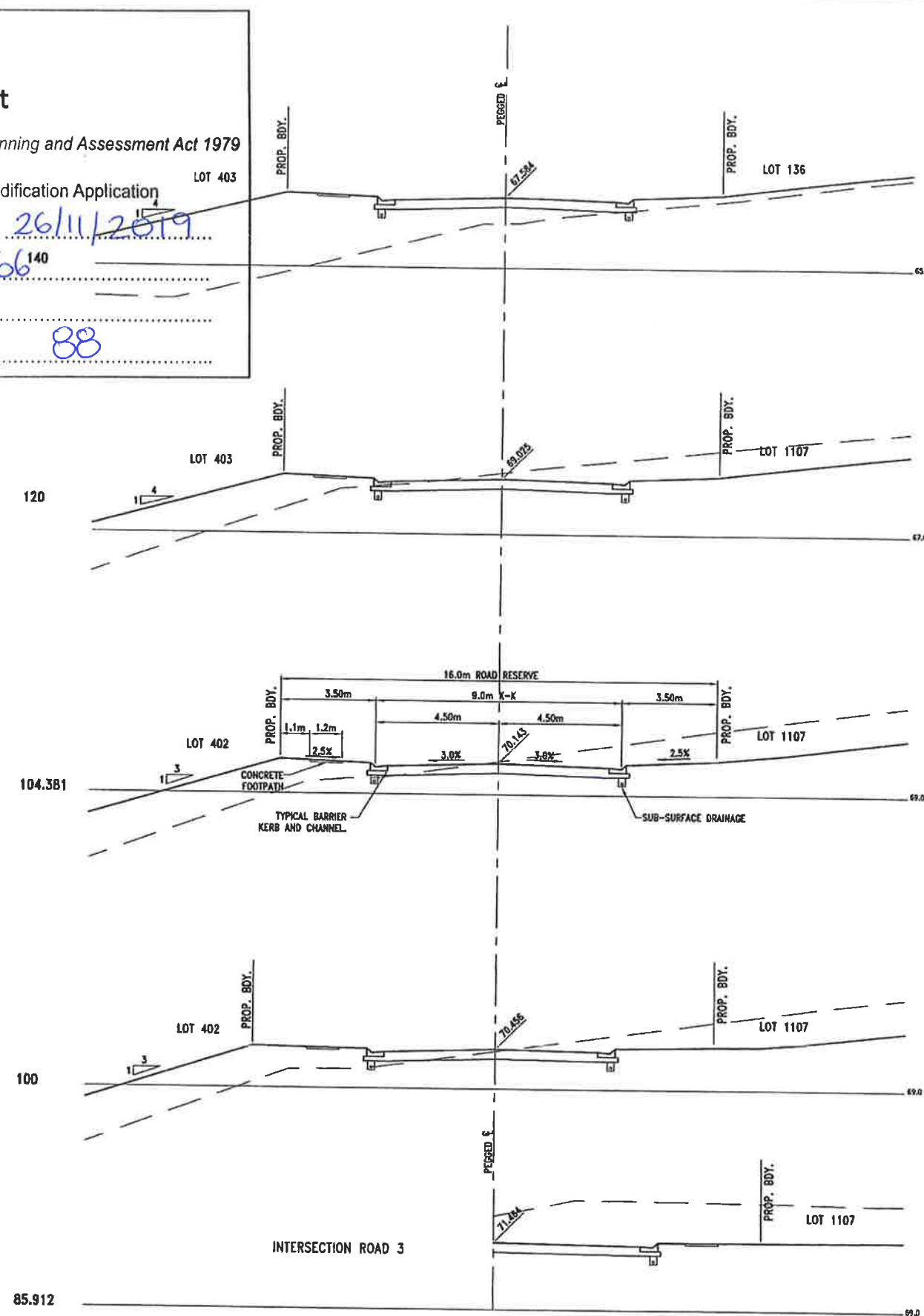
Approved ^{70.0} Section Section 75W Modification Application

No. 3 Granted on 26/11/2019

In respect to MP 09-0166¹⁴⁰

Signed _____

Sheet No. 64 of 88



09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 1 CROSS SECTIONS
SHEET 1 OF 3

SK 3587
REVISION B

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Gold Coast Office Level 1, 34 Thurman Drive

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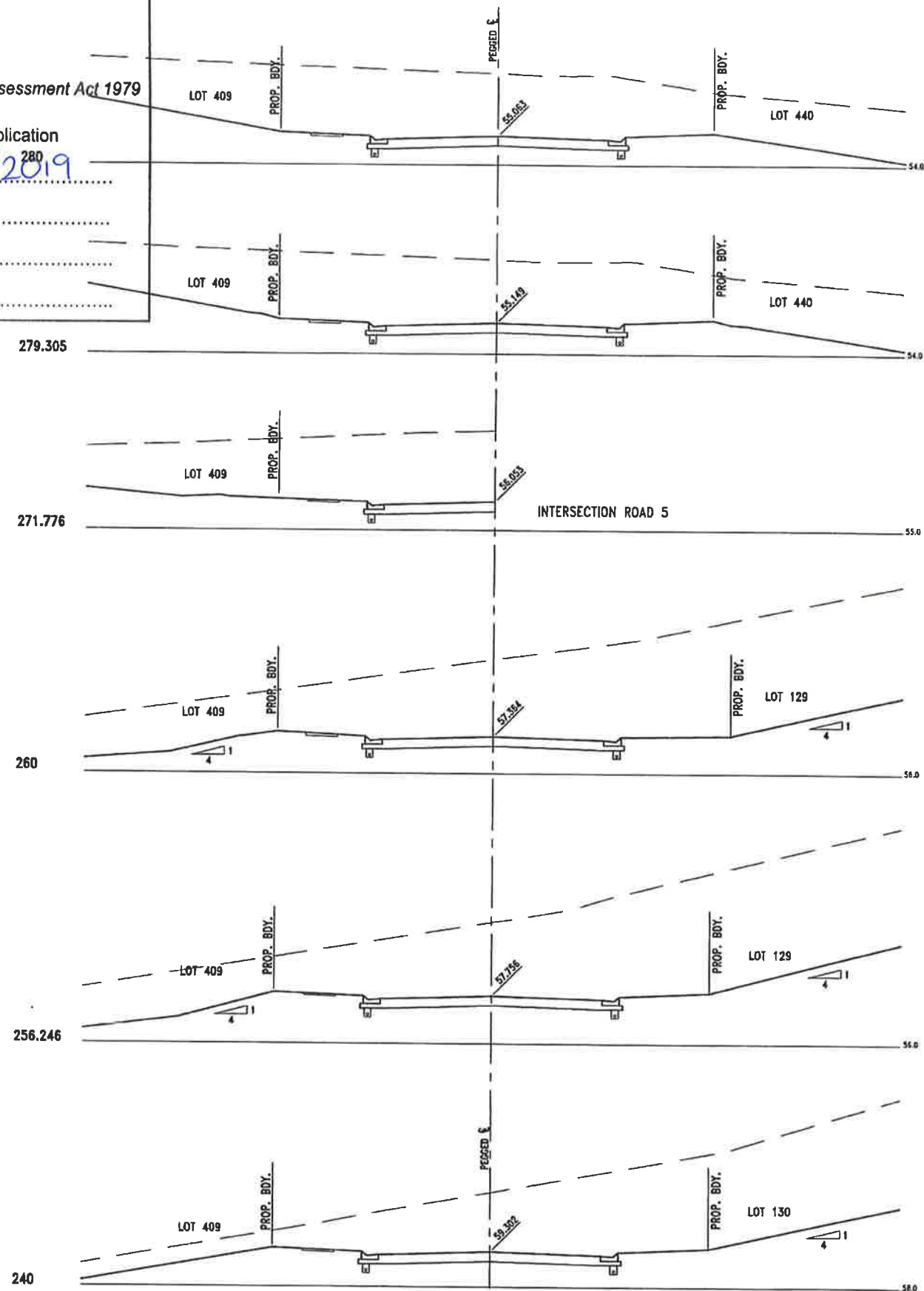
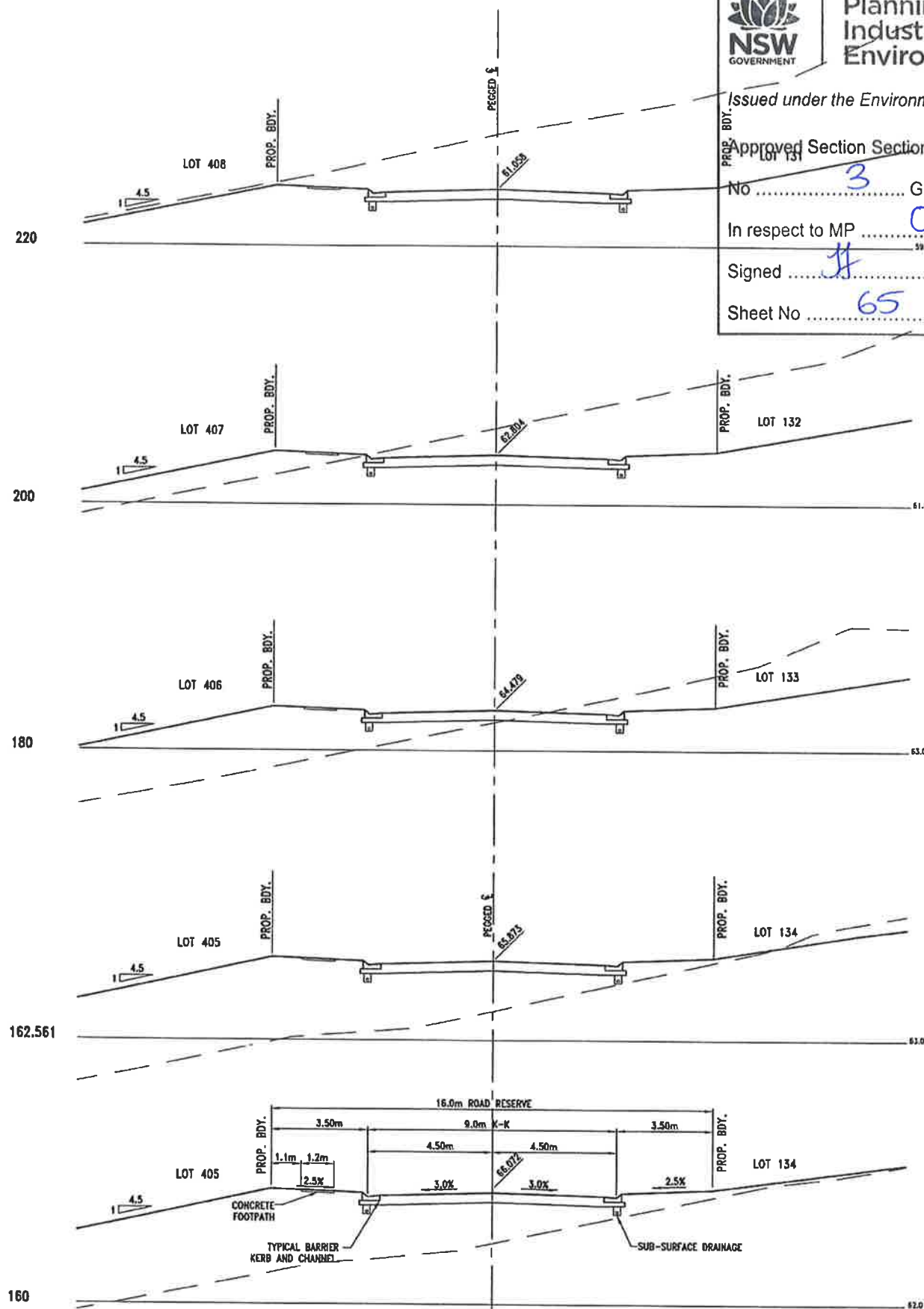
Approved Section 75W Modification Application

No. 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No. 65 of 88



1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 1 CROSS SECTIONS
SHEET 2 OF 3

SK 3588
REVISION B

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LOT 446

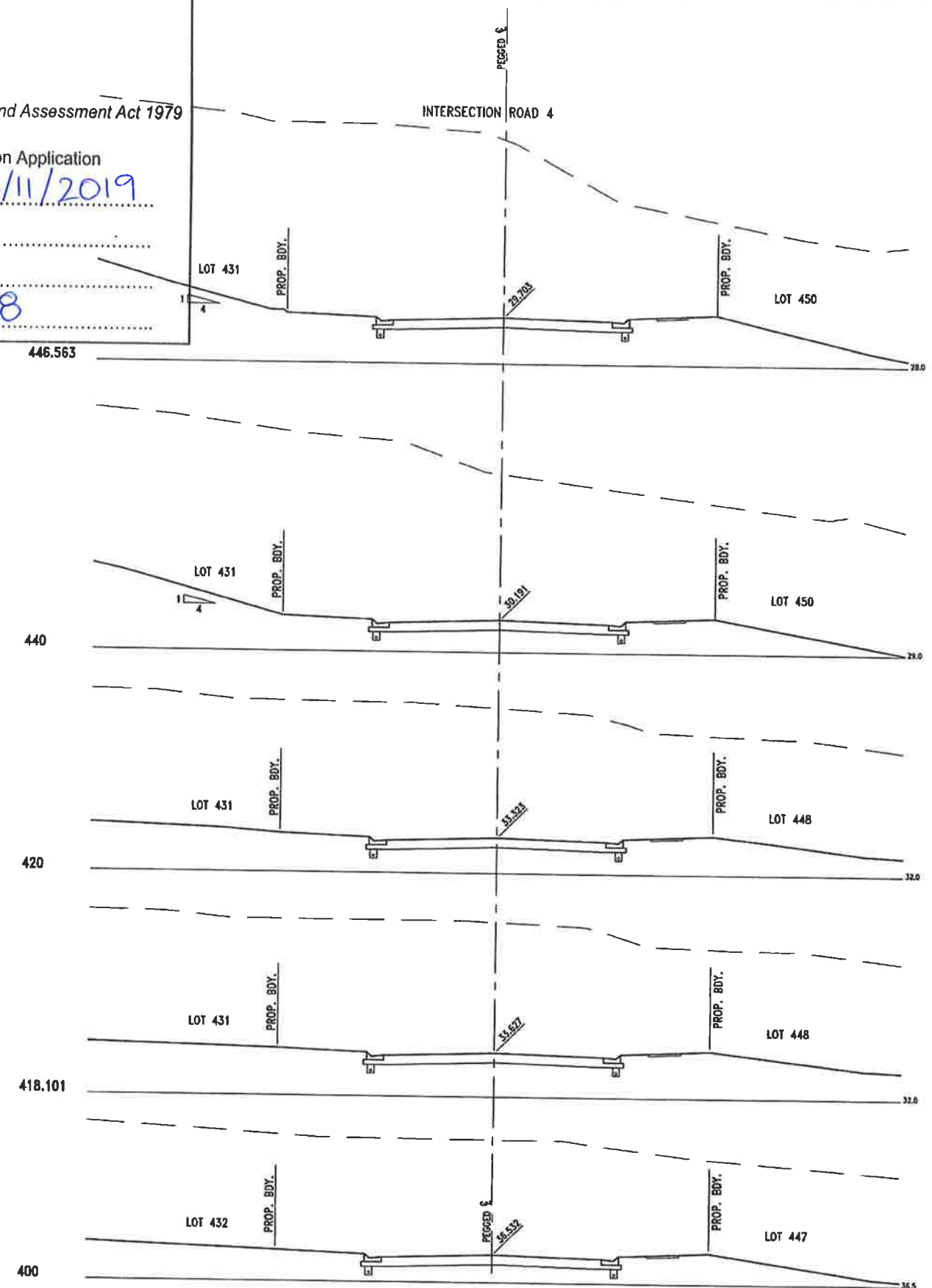
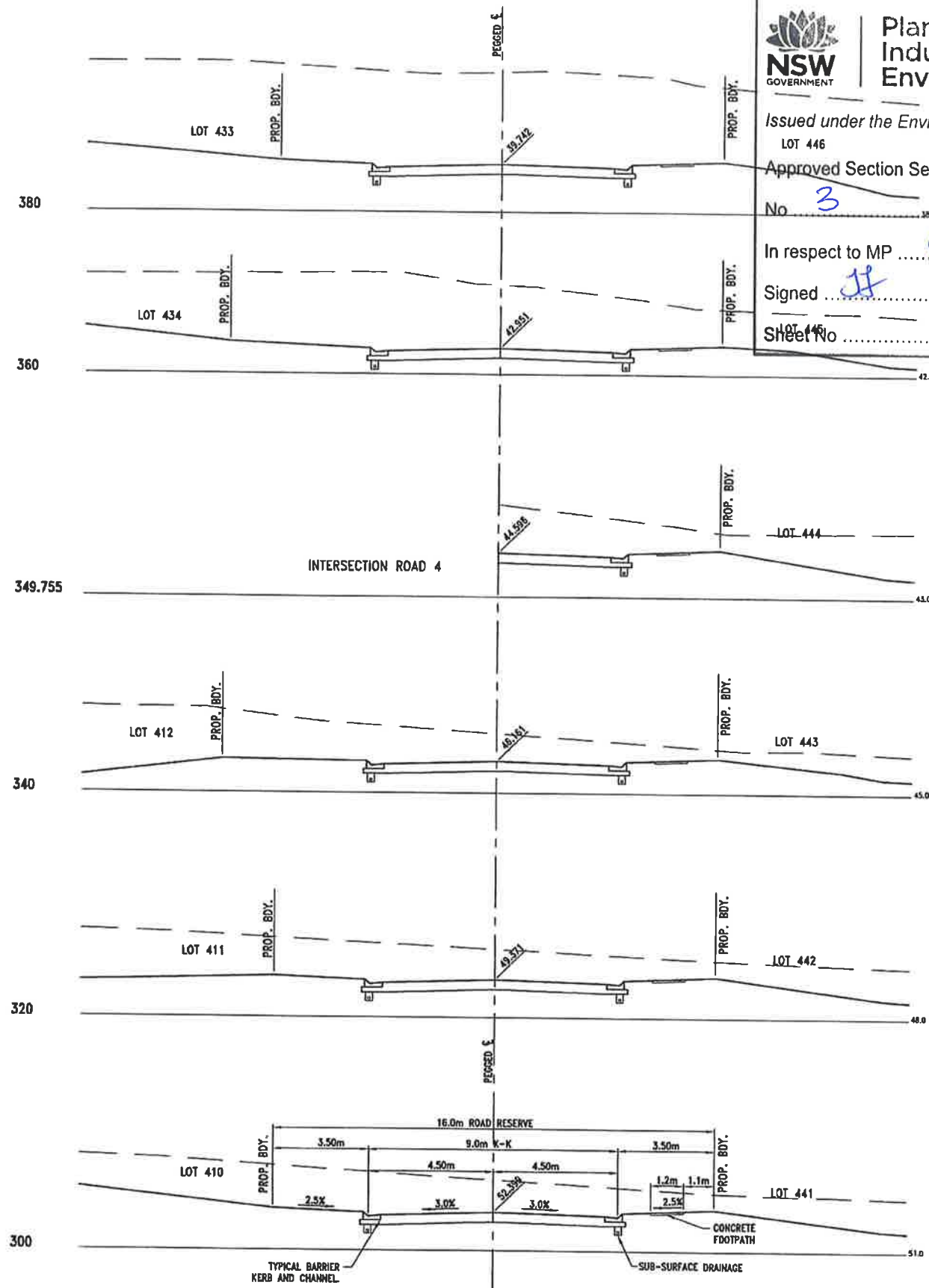
Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed [Signature]

Sheet No 66 of 88



1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 1 CROSS SECTIONS
SHEET 3 OF 3

SK 3589
REVISION B

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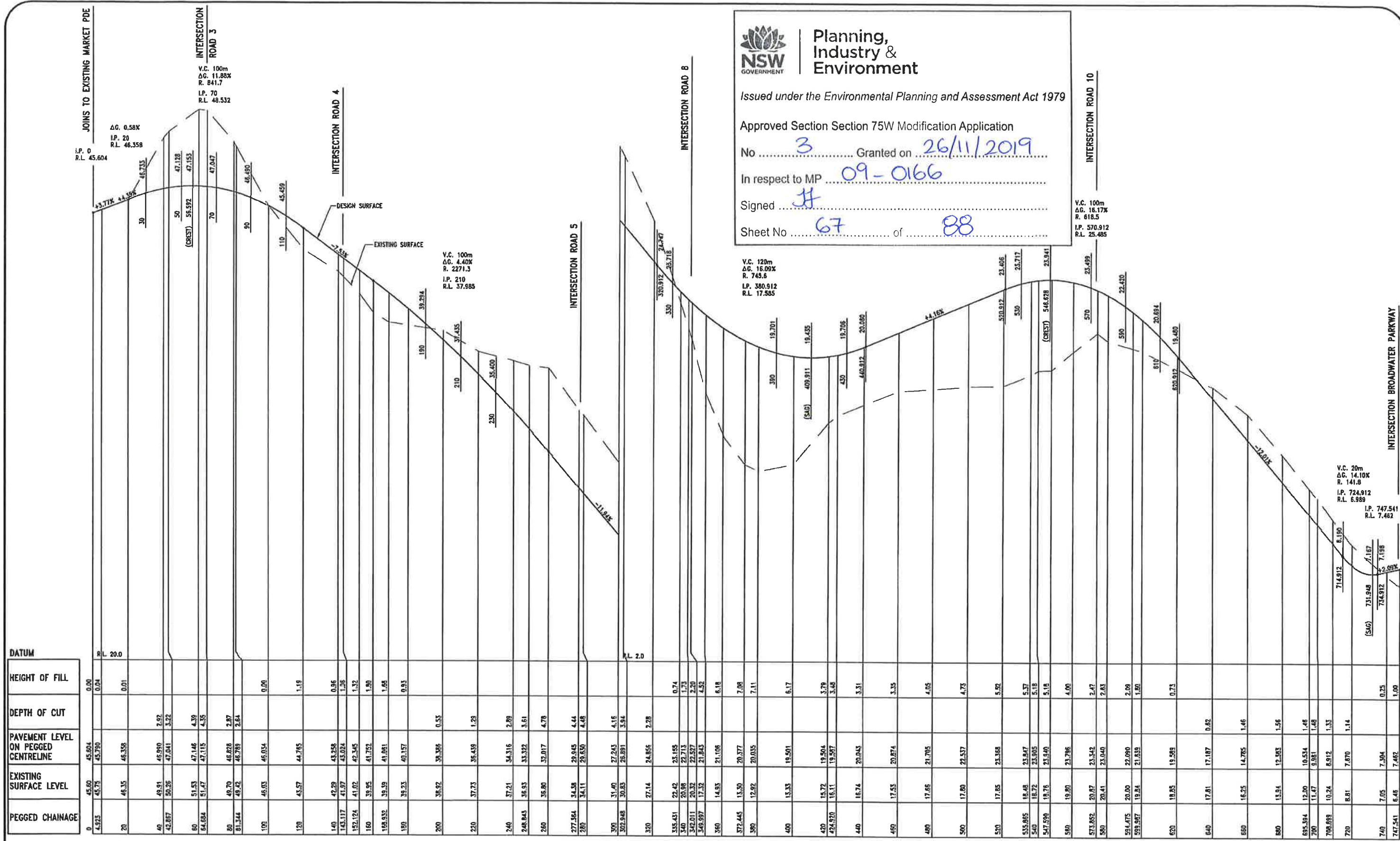
Sheet No 67 of 88

V.C. 120m
ΔG. 16.09%
R. 745.6
I.P. 380.912
R.L. 17.585

V.C. 100m
ΔG. 16.17%
R. 618.5
I.P. 570.912
R.L. 25.485

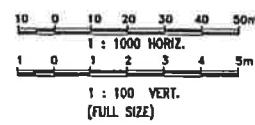
V.C. 20m
ΔG. 14.10%
R. 141.8
I.P. 724.912
R.L. 6.989
I.P. 747.541
R.L. 7.462

JOINS TO EXISTING MARKET PDE
I.P. 0
R.L. 45.604
ΔG. 0.58%
I.P. 20
R.L. 46.358
INTERSECTION ROAD 3
V.C. 100m
ΔG. 11.88%
R. 841.7
I.P. 70
R.L. 48.532



DATUM	HEIGHT OF FILL	DEPTH OF CUT	PAVEMENT LEVEL ON PEGGED CENTRELINE	EXISTING SURFACE LEVEL	PEGGED CHAINAGE
0	0.00		45.604	45.604	0
4.925	0.04		45.790	45.75	4.925
20	0.01		46.358	46.35	20
40		2.92	46.990	46.91	40
42.867		3.22	47.041	46.26	42.867
60		4.39	47.148	51.53	60
64.684		4.35	47.115	51.47	64.684
80		2.97	46.828	48.70	80
81.344		2.64	46.789	48.42	81.344
100	0.00		46.034	46.03	100
120	1.19		44.765	43.57	120
140	0.96		43.258	42.29	140
143.117	1.06		43.024	41.97	143.117
160	1.32		42.345	41.02	160
168.932	1.80		41.752	39.95	168.932
180	1.68		41.081	39.39	180
190	0.93		40.157	39.23	190
200	0.53		39.386	38.92	200
220	1.29		36.439	37.23	220
240	2.89		34.316	37.21	240
248.843	3.61		33.322	36.93	248.843
260	4.78		32.017	36.80	260
277.564	4.44		29.945	34.38	277.564
280	4.48		29.630	34.11	280
300	4.16		27.243	31.40	300
302.948	3.94		26.891	30.83	302.948
320	2.28		24.856	27.14	320
335.431	0.74		23.153	22.42	335.431
340	1.73		22.713	20.98	340
342.011	2.20		22.527	20.32	342.011
346.997	4.32		21.843	17.32	346.997
360	6.18		21.108	14.93	360
372.445	7.08		20.377	13.30	372.445
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480	4.05		21.705	17.66	480
500	4.73		22.537	17.80	500
520	5.92		23.368	17.85	520
535.885	5.57		23.847	18.48	535.885
540	5.18		23.905	18.72	540
547.590	5.16		23.940	18.76	547.590
560	4.00		23.786	19.80	560
573.852	2.47		23.342	20.87	573.852
580	2.83		23.040	20.41	580
594.475	2.09		22.090	20.00	594.475
599.987	1.80		21.839	19.84	599.987
620	0.73		19.509	18.85	620
640	0.82		17.187	17.81	640
660	1.46		14.785	16.25	660
680	1.56		12.583	13.94	680
695.594	1.46		10.534	12.00	695.594
700	1.48		9.981	11.47	700
708.889	1.33		8.912	10.24	708.889
720	1.14		7.670	8.81	720
740	0.25		7.304	7.05	740
747.541	1.00		7.462	6.45	747.541

HORIZONTAL CURVE DATA
R60 R25 R25 R80.5 R30.5 R30.5 R79.5 R79.5 R49.5 R50 R80 R30



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1

ROAD 2

LONGITUDINAL SECTION

09-374

07-01-2013

SK 3590

REVISION B

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Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

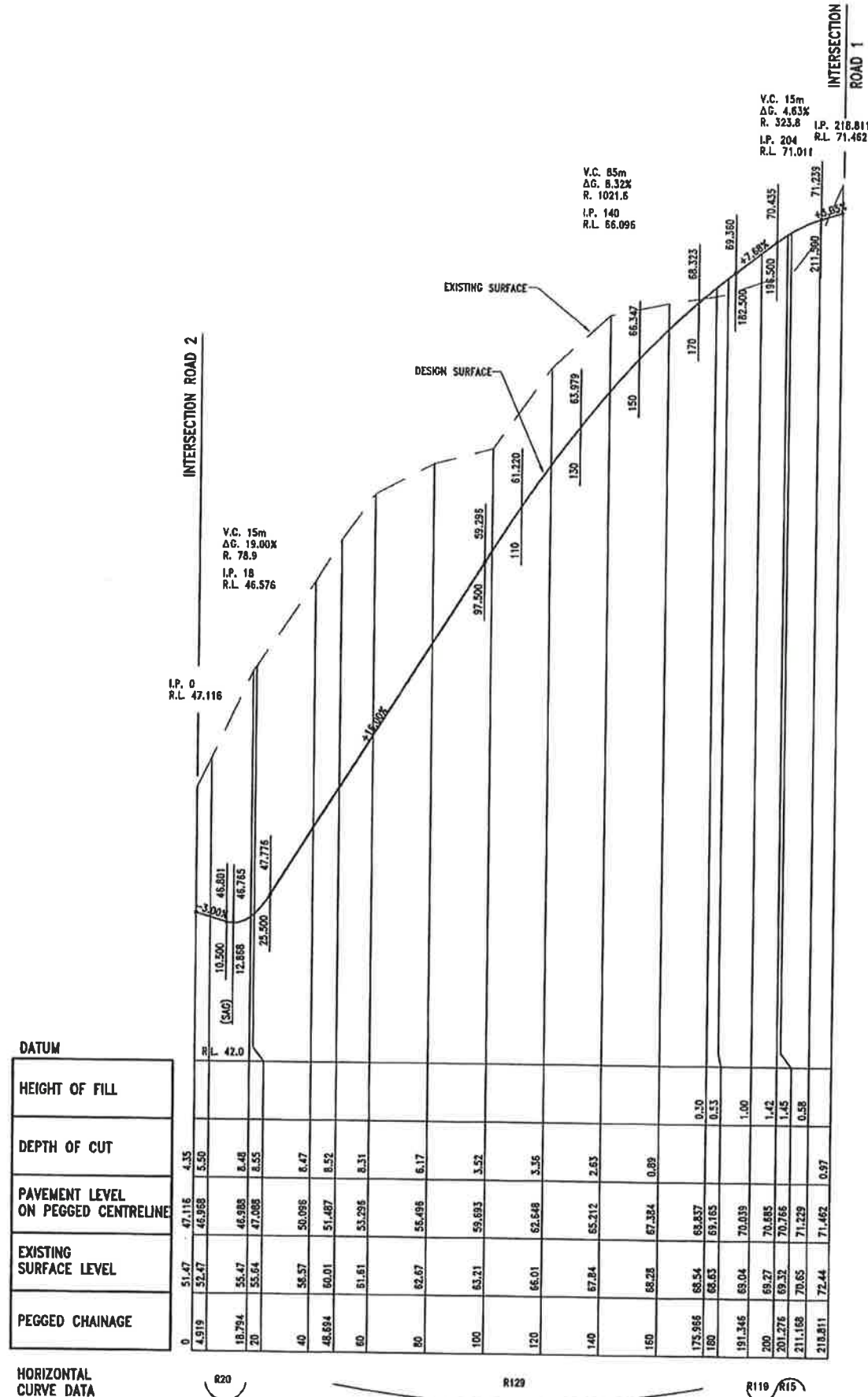
Bradlees

Civil Consulting

QUALITY ASSURED COMPANY

AS/NZS ISO 9001:2015

REG. NO. 231



HORIZONTAL
CURVE DATA

R20

R129

R119 R15



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 3
LONGITUDINAL SECTION

09-374
07-01-2013

SK 3595
REVISION 8

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Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

Bradlees
Civil Consulting



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Environment

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Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed [Signature]

Sheet No 68 of 88



Planning,
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Environment

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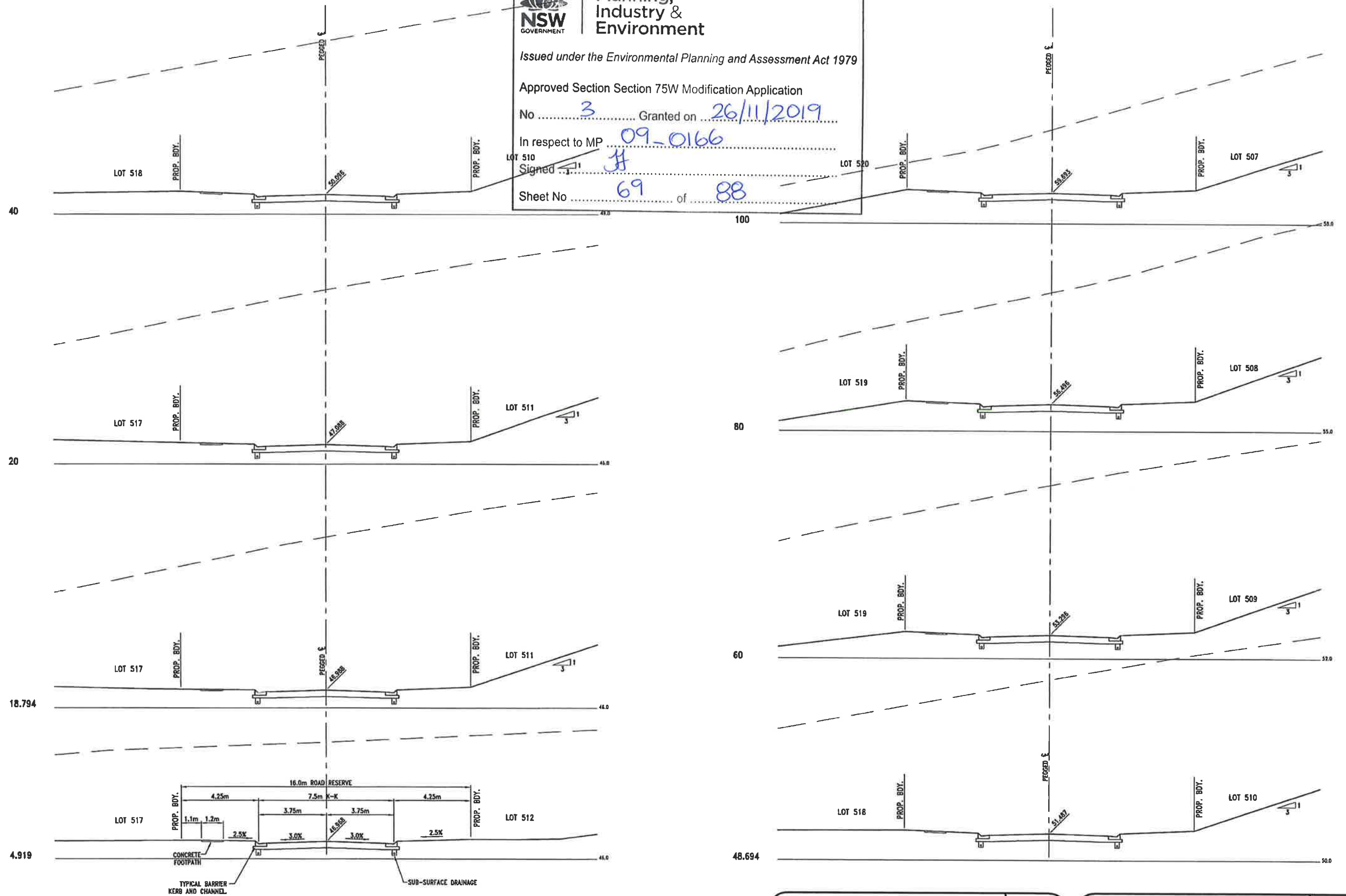
Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed [Signature]

Sheet No 69 of 88



1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 3 CROSS SECTIONS
SHEET 1 OF 2

09-374
07-01-2013

SK 3596
REVISION 8

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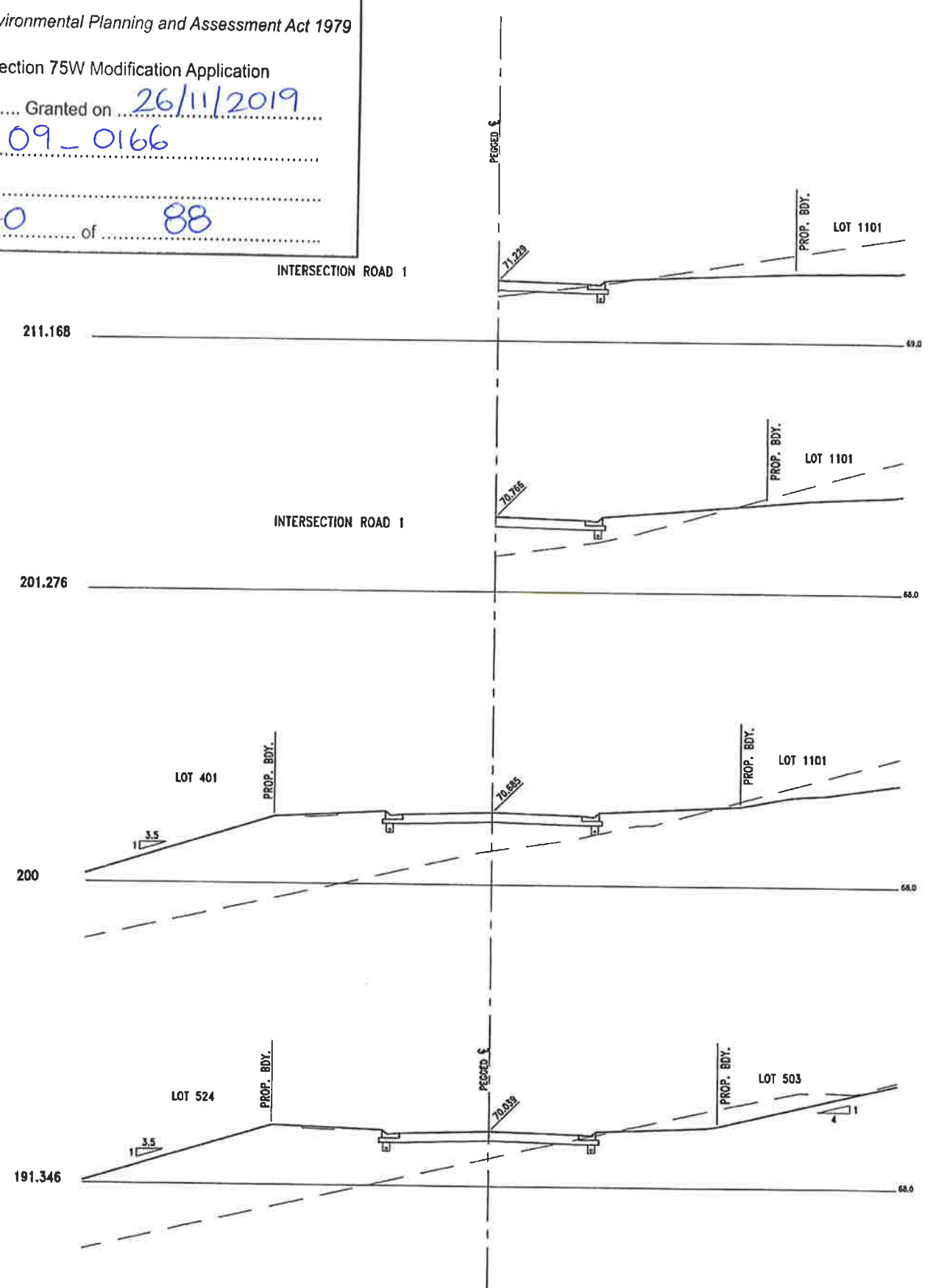
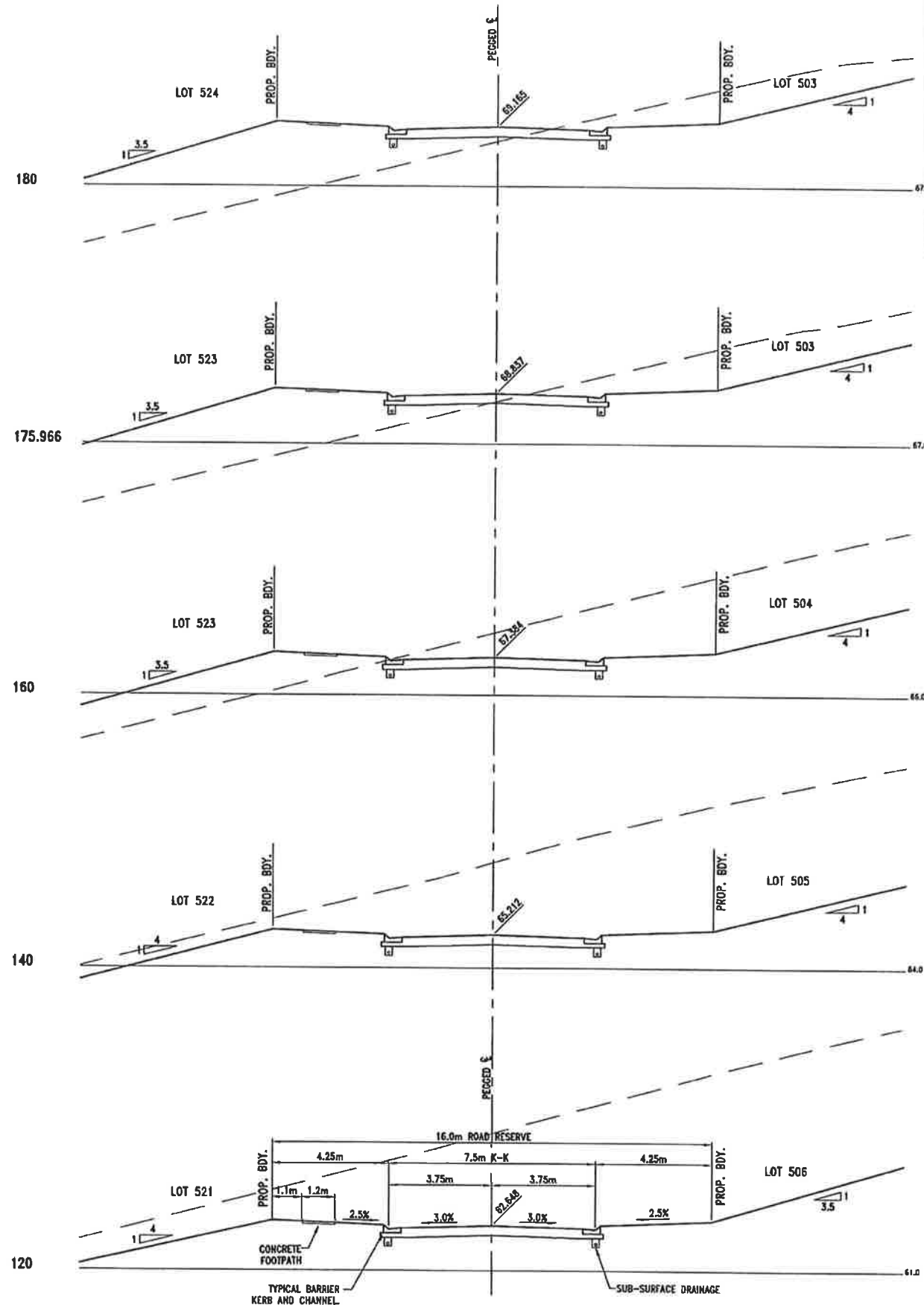
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No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 70 of 88



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NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 3 CROSS SECTIONS
SHEET 2 OF 2

09-374
07-01-2013

SK 3597
REVISION B

Bradford Lees Pty Ltd
ABN 29 054 159 191

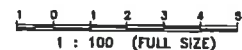
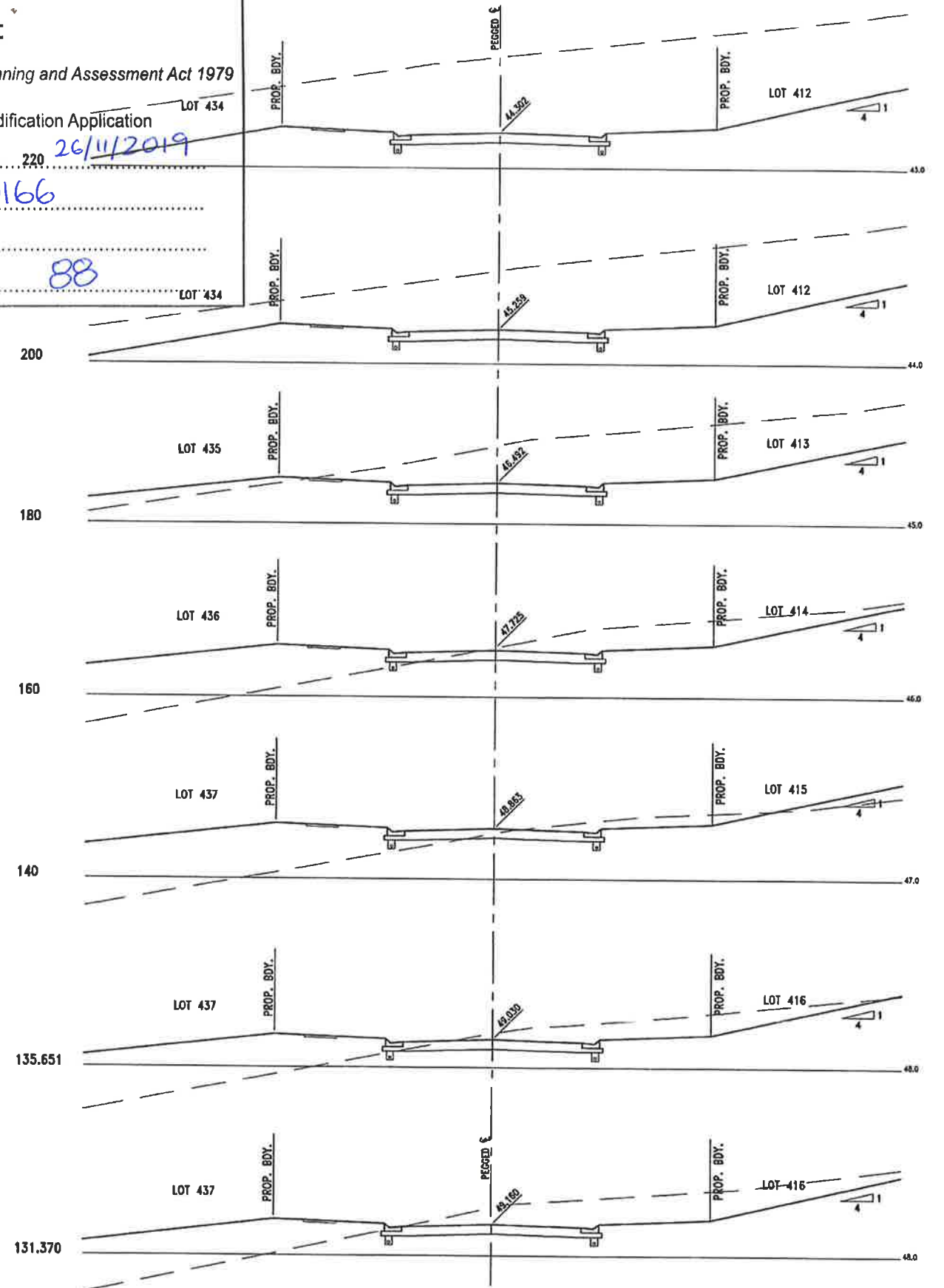
Ph 07 5528 6411
Fax 07 5528 6422
Web www.bradlees.com.au
Email mail@bradlees.com.au
Postal PO Box 2293, Southport QLD 4215
Gold Coast Office Level 1, 34 Thomas Drive, Chevron Island QLD 4217

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Sheet No. 42 of 88

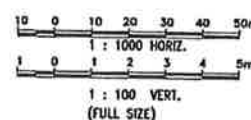
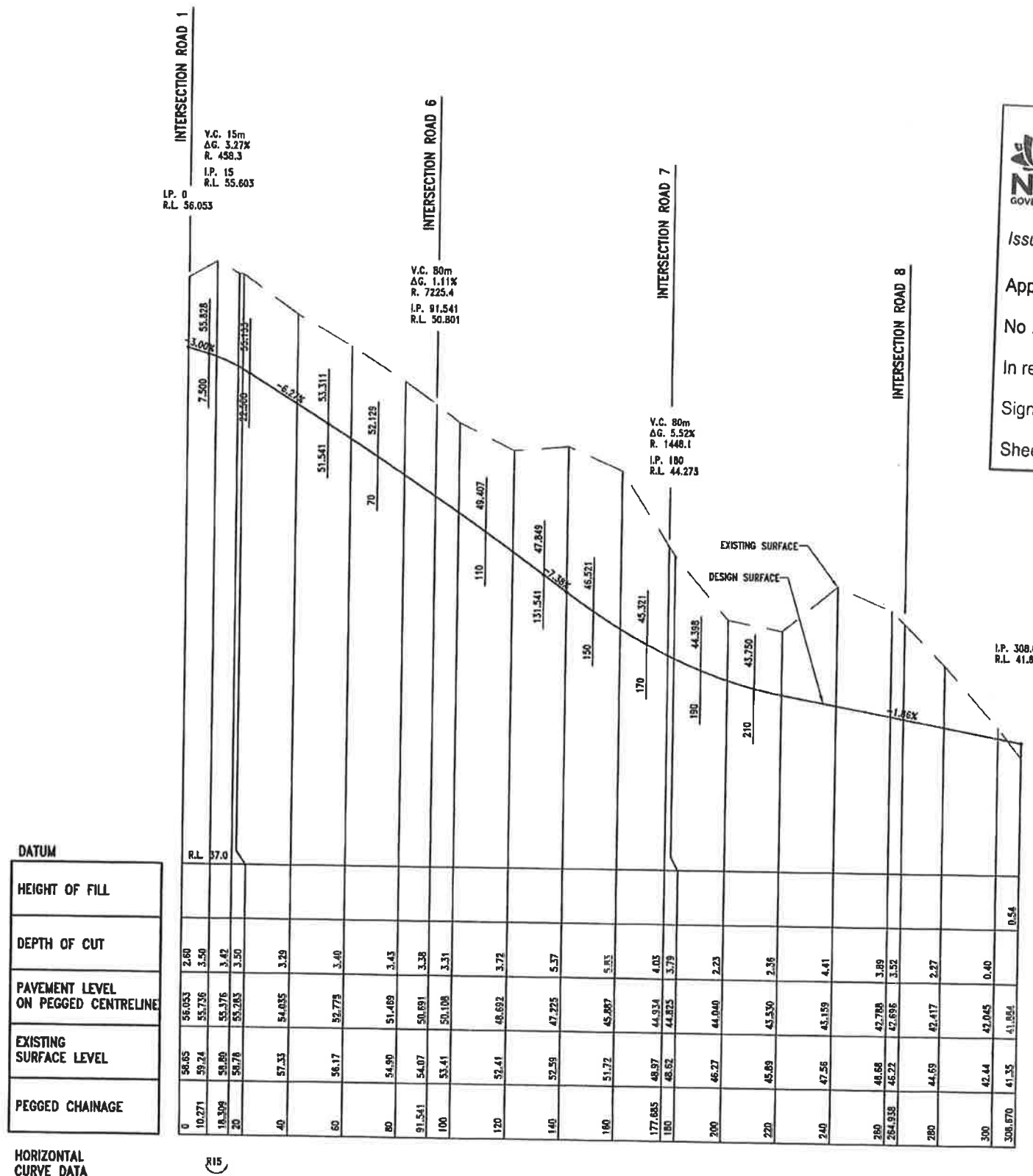


SK 3599
REVISION 8



PCI QUAL
INTERNATIONAL

QUALITY ASSURED COMPANY
AS/NZS ISO 9001:2000
REG. NO. 233



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 5
LONGITUDINAL SECTION

09-374
07-01-2013

SK 3600
REVISION B

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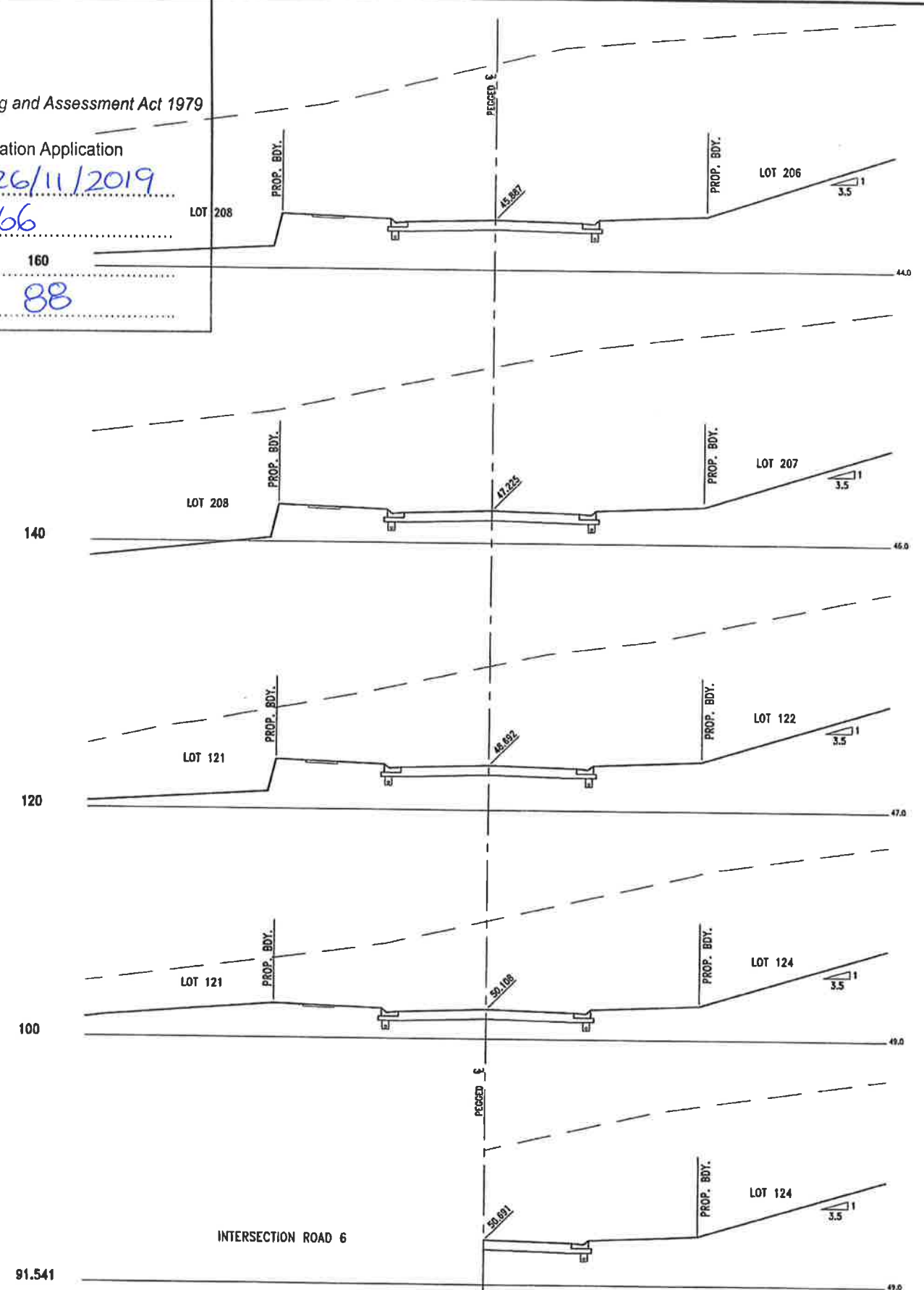
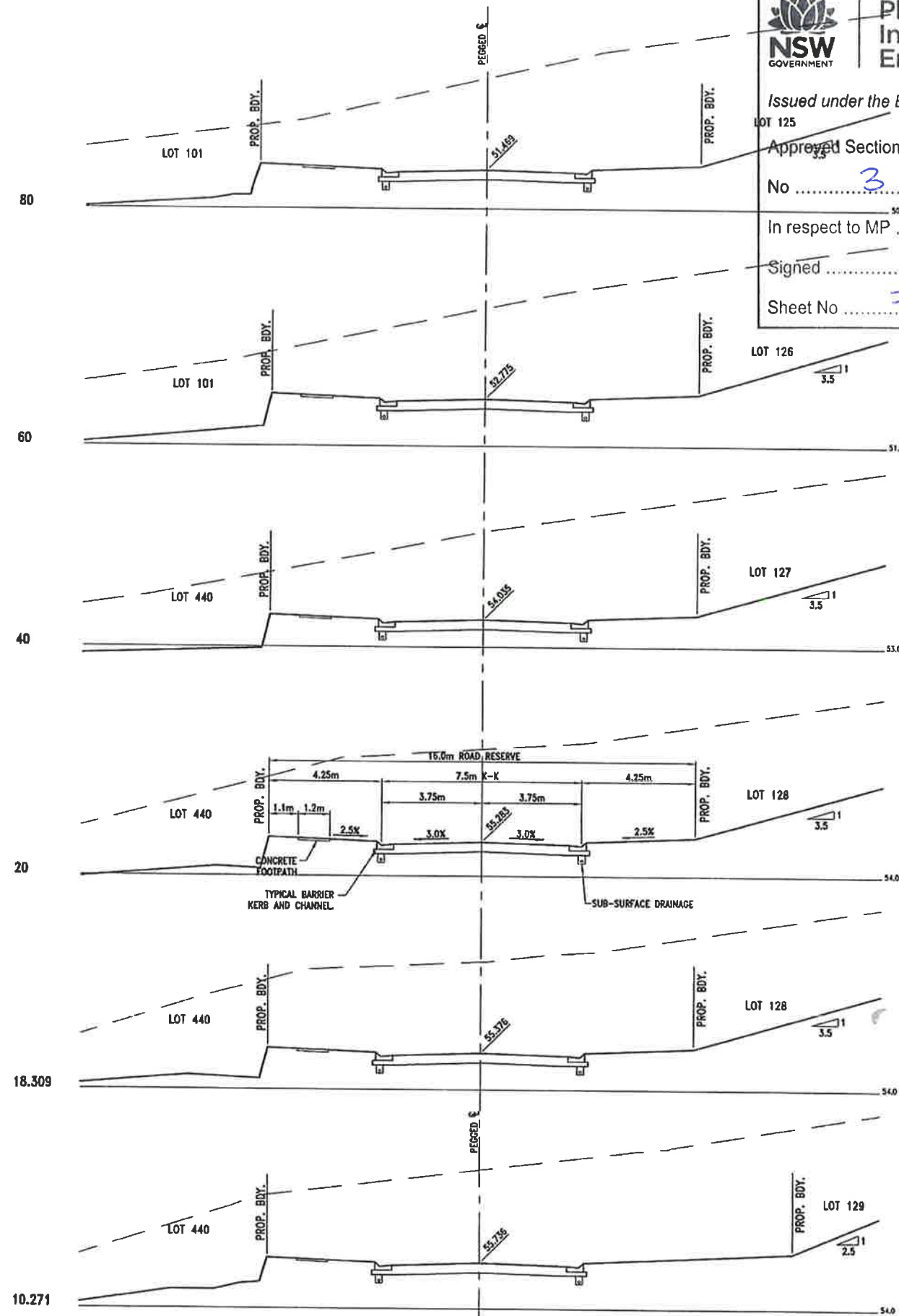
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No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 74 of 88



NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 5 CROSS SECTIONS
SHEET 1 OF 2

SK 3601
REVISION B

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QUALITY ASSURANCE COMPANY
AL/ACC 901 901 901
REG. NO. 331

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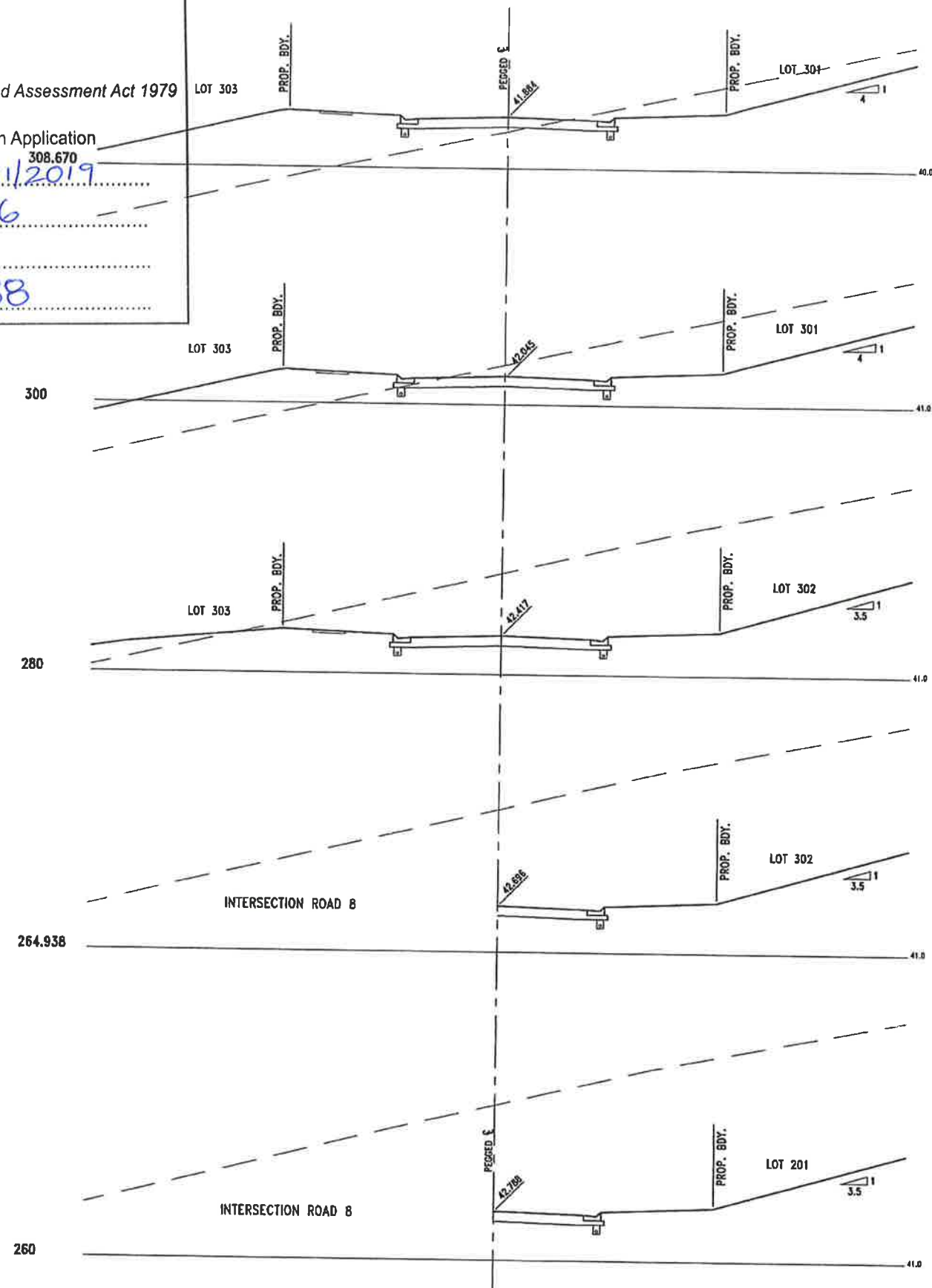
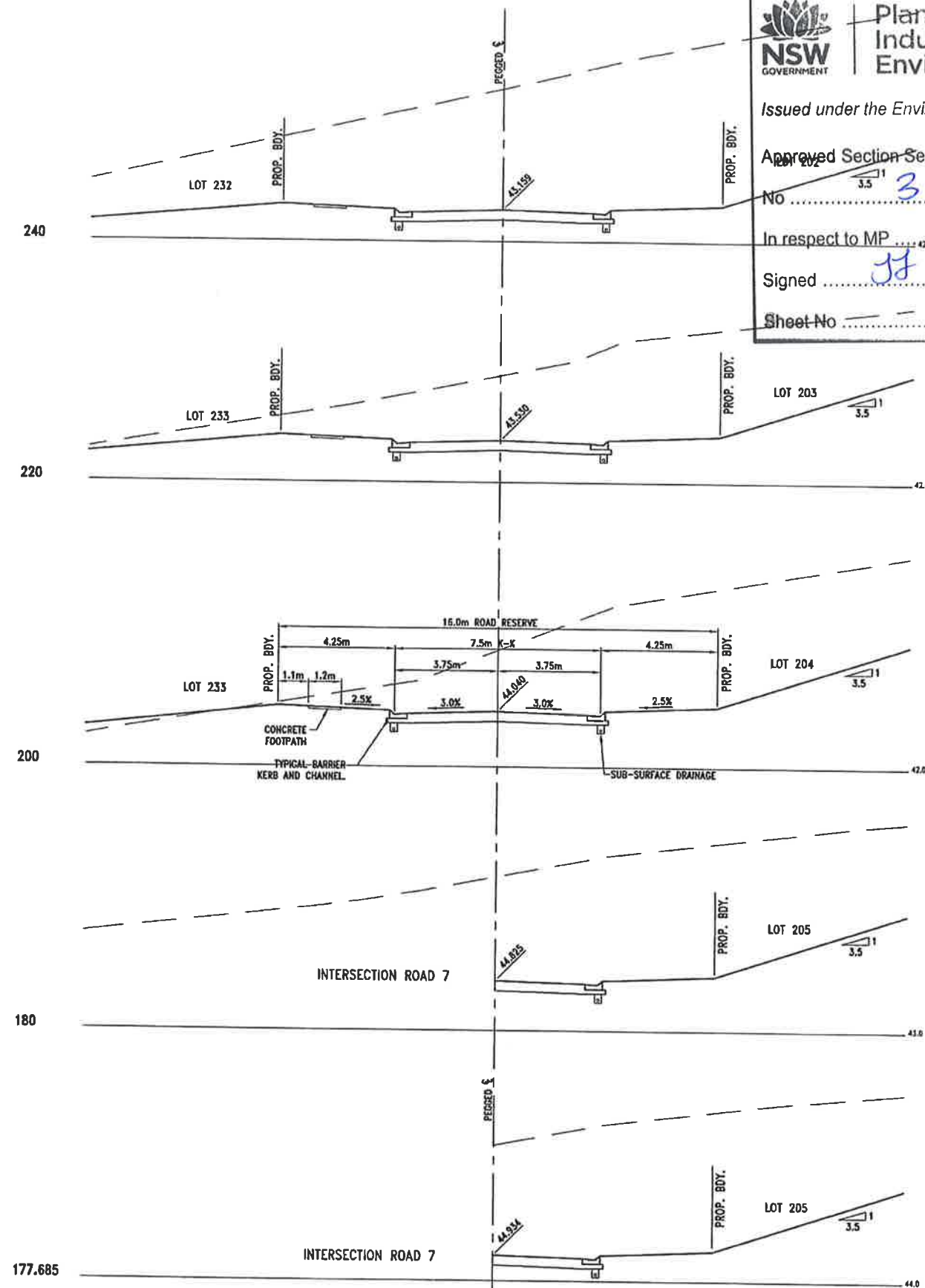
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No. 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 75 of 88



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NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 5 CROSS SECTIONS
SHEET 2 OF 2

09-374
07-01-2013

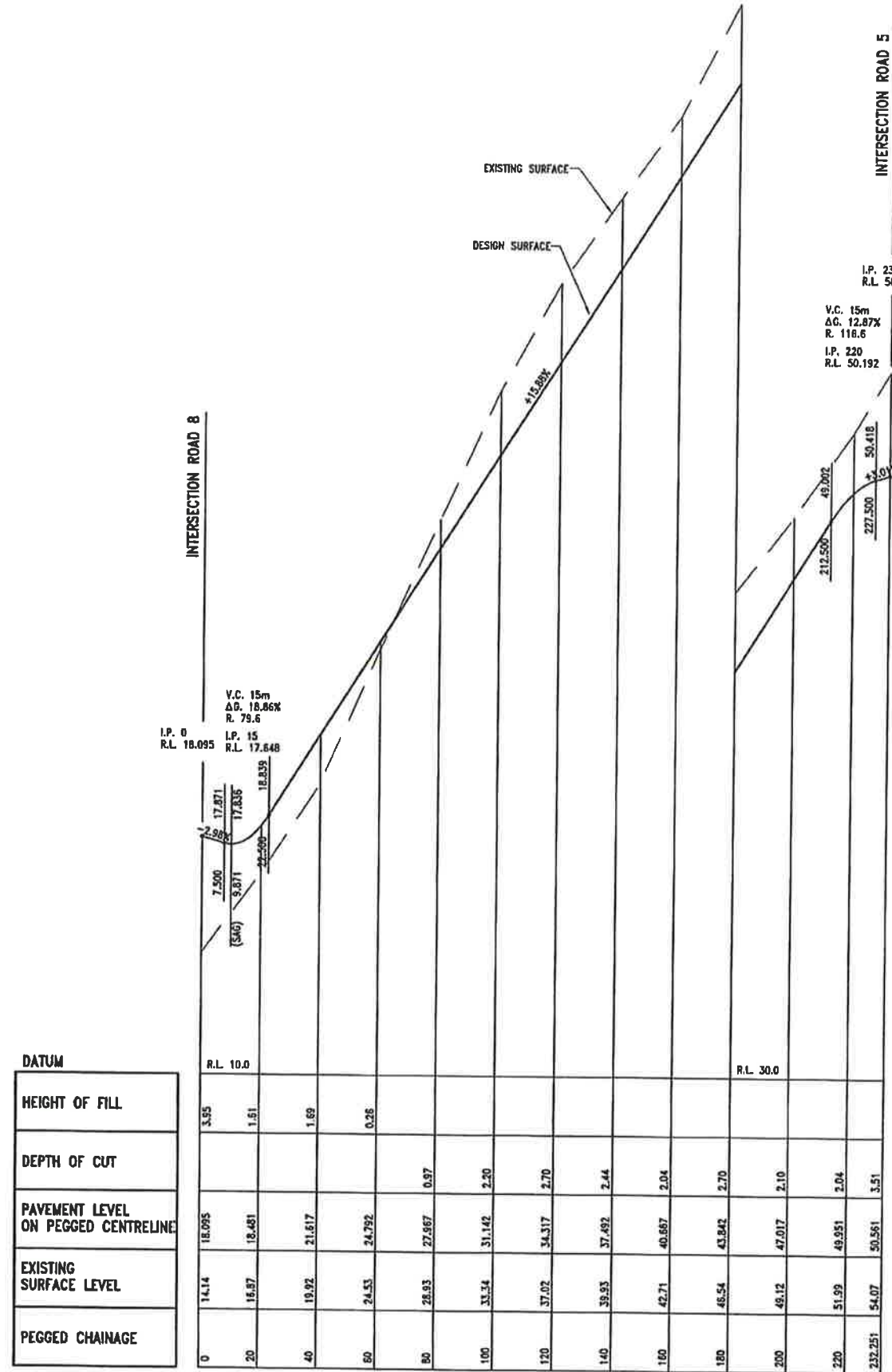
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Bradford Lees Pty Ltd
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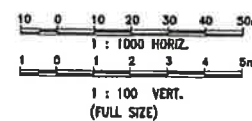
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Sheet No 76 of 88

NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 6
LONGITUDINAL SECTION

SK 3602
REVISION B

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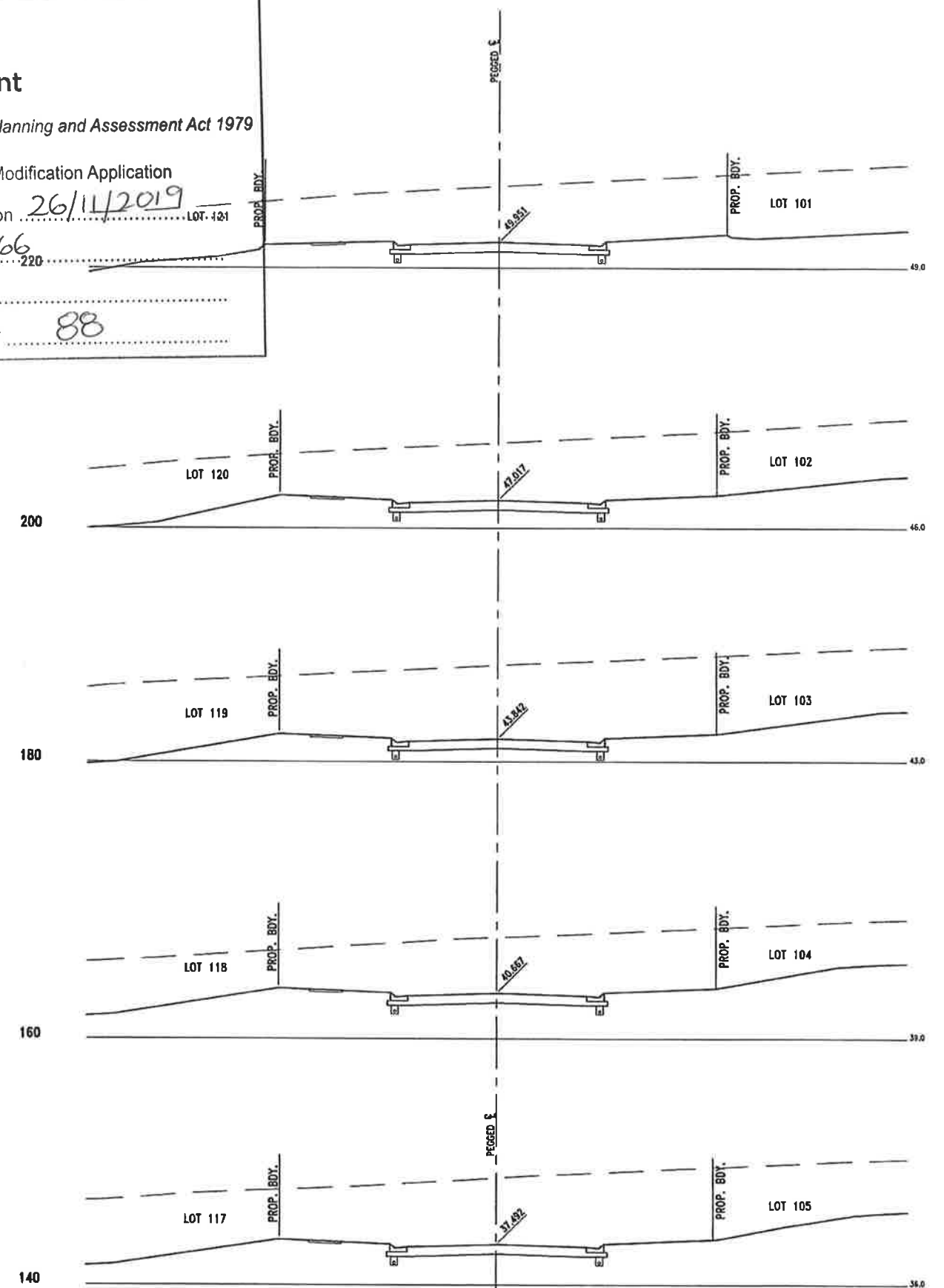
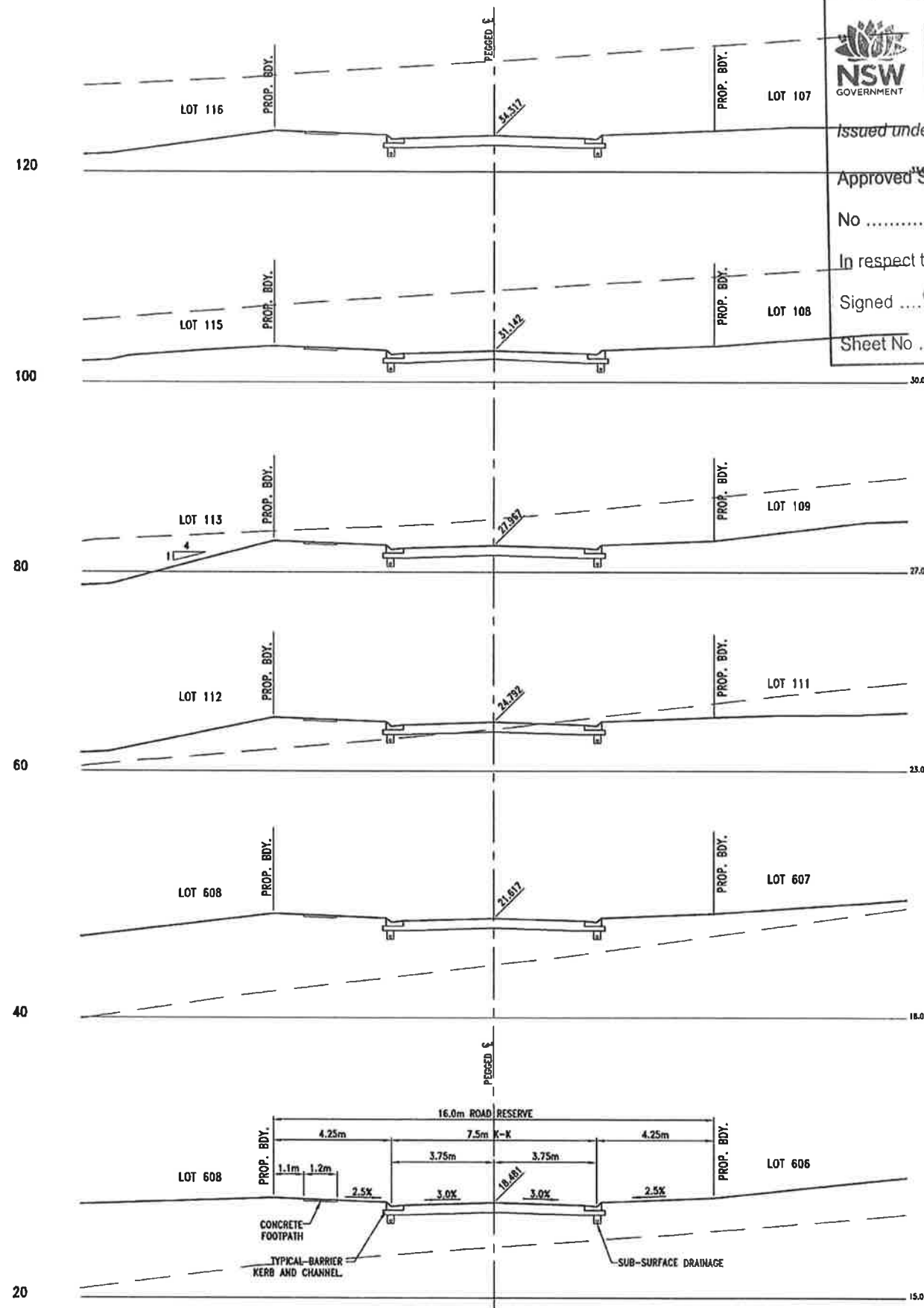
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Sheet No 77 of 88



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NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1

ROAD 6
CROSS SECTIONS

09-374
07-01-2013

SK 3965
REVISION A

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ABN 29 064 159 191

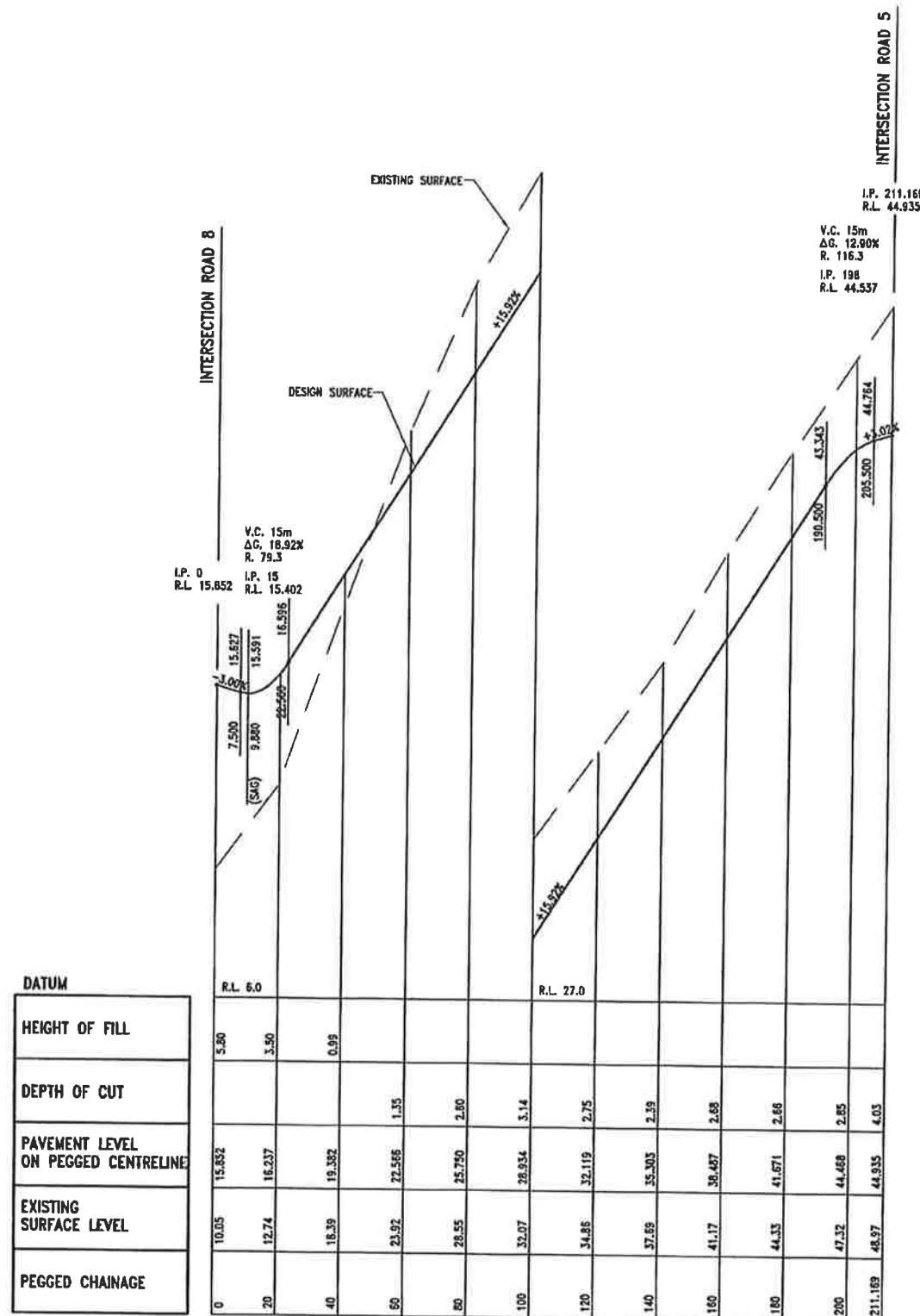
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Fax 07 5528 6422

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Email mail@bradlees.com.au

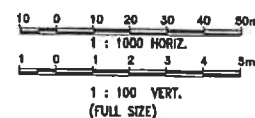
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NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 7
LONGITUDINAL SECTION

SK 3603
REVISION B

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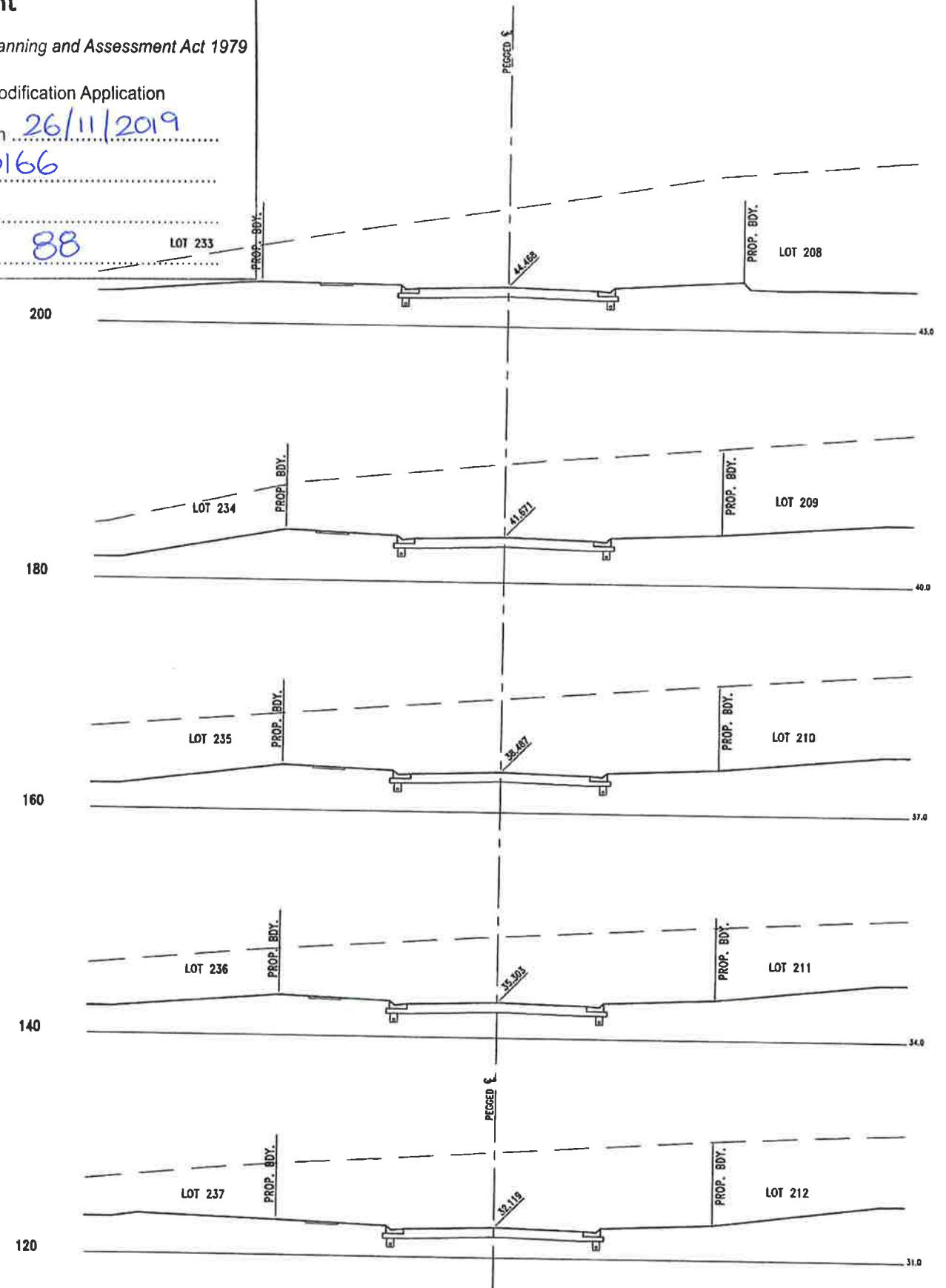
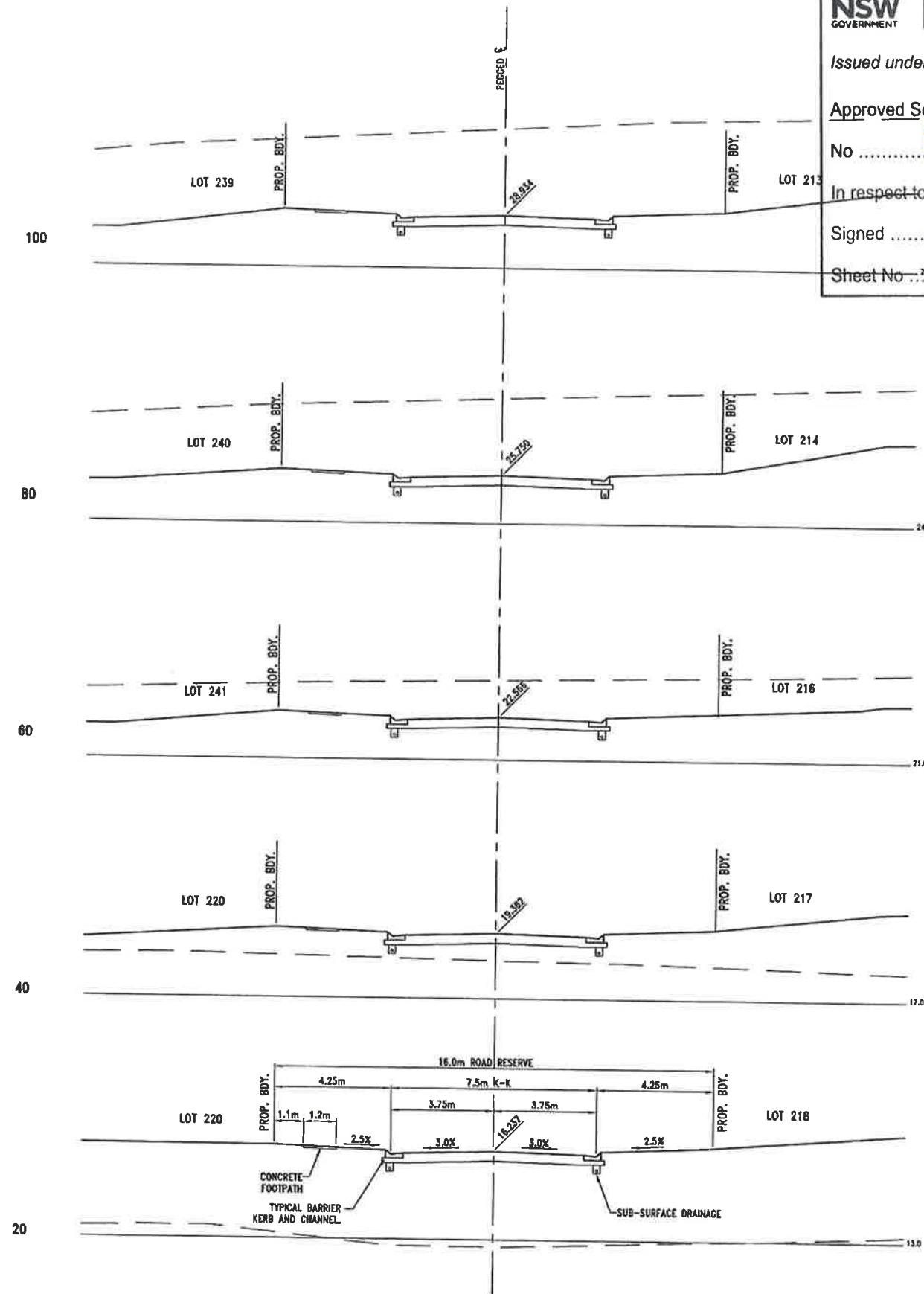
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TERRANORA PRECINCT 1
ROAD 7
CROSS SECTIONS

09-374
07-01-2013

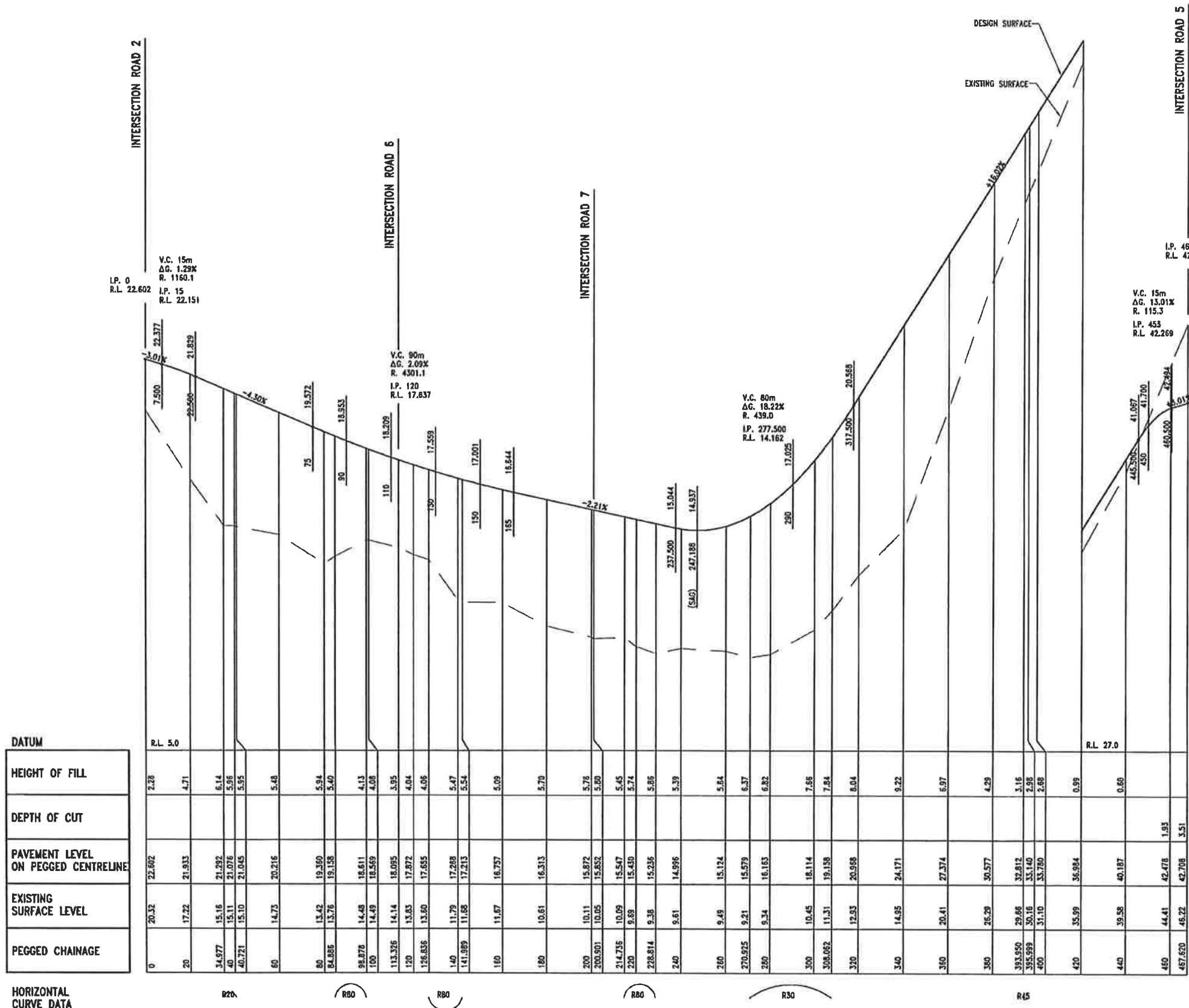
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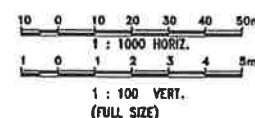
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DEPTH OF CUT	
PAVEMENT LEVEL ON PEGGED CENTRELINE	
EXISTING SURFACE LEVEL	
PEGGED CHAINAGE	

HORIZONTAL
CURVE DATA



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 8
LONGITUDINAL SECTION

09-374
07-01-2013

SK 3604
REVISION 8

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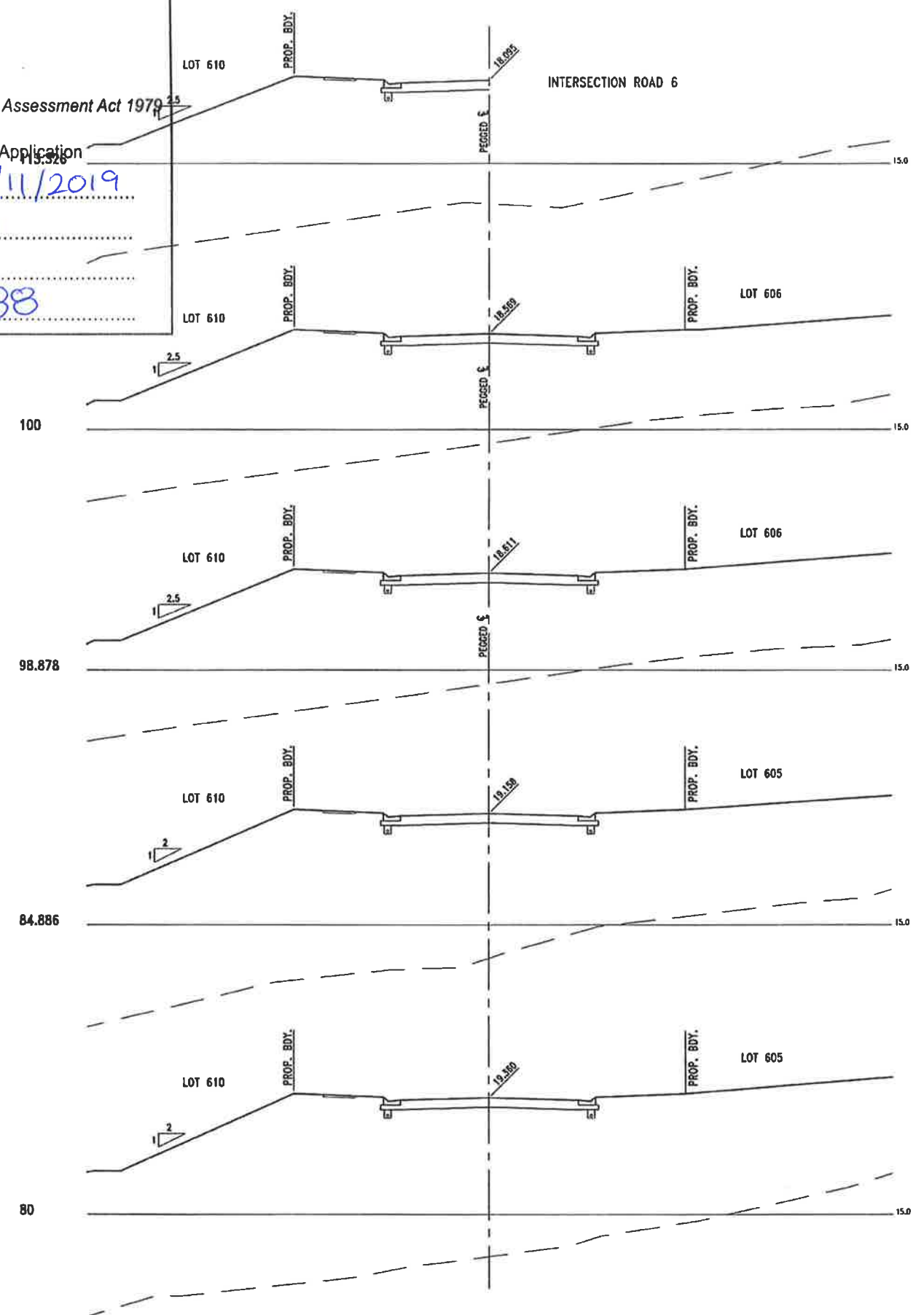
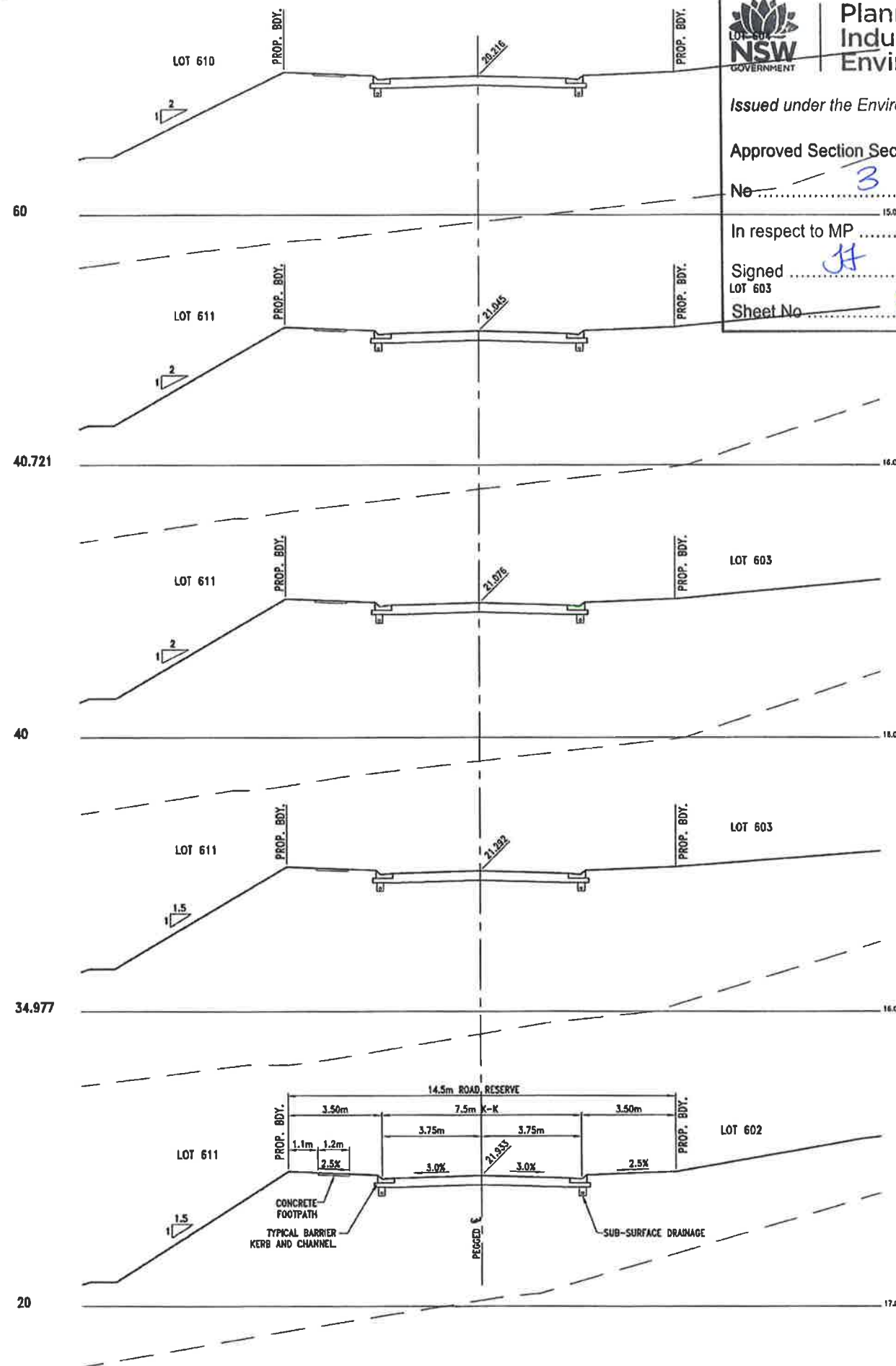
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LOT 603

Sheet No. 81 of 88



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NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 8 CROSS SECTIONS
SHEET 1 OF 4

09-374
07-01-2013

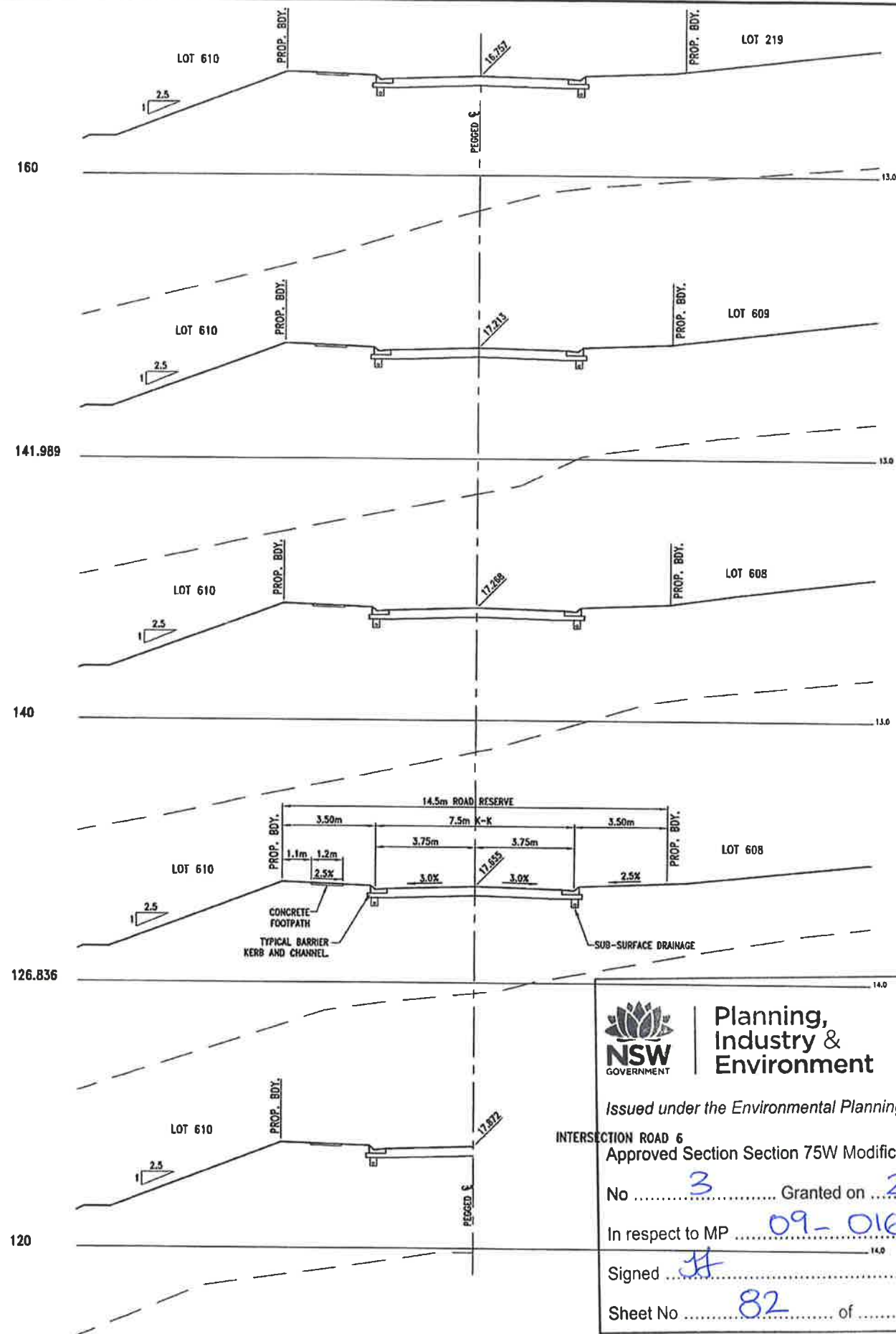
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REVISION B

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INTERSECTION ROAD 6
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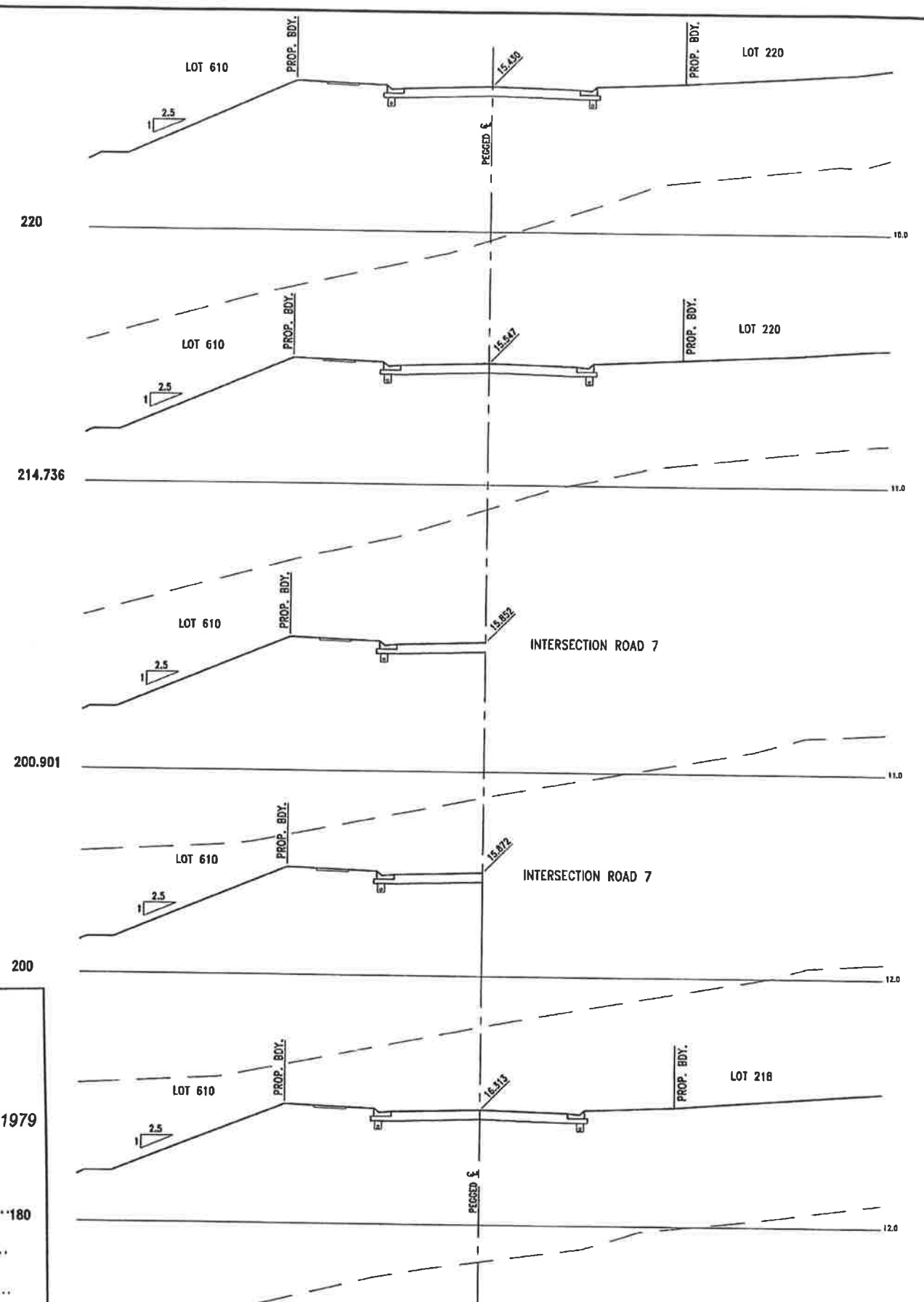
No 3 Granted on 26/11/2019

In respect to MP 09-0166

Signed [Signature]

Sheet No 82 of 88

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NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 8 CROSS SECTIONS
SHEET 2 OF 4

09-374
07-01-2013

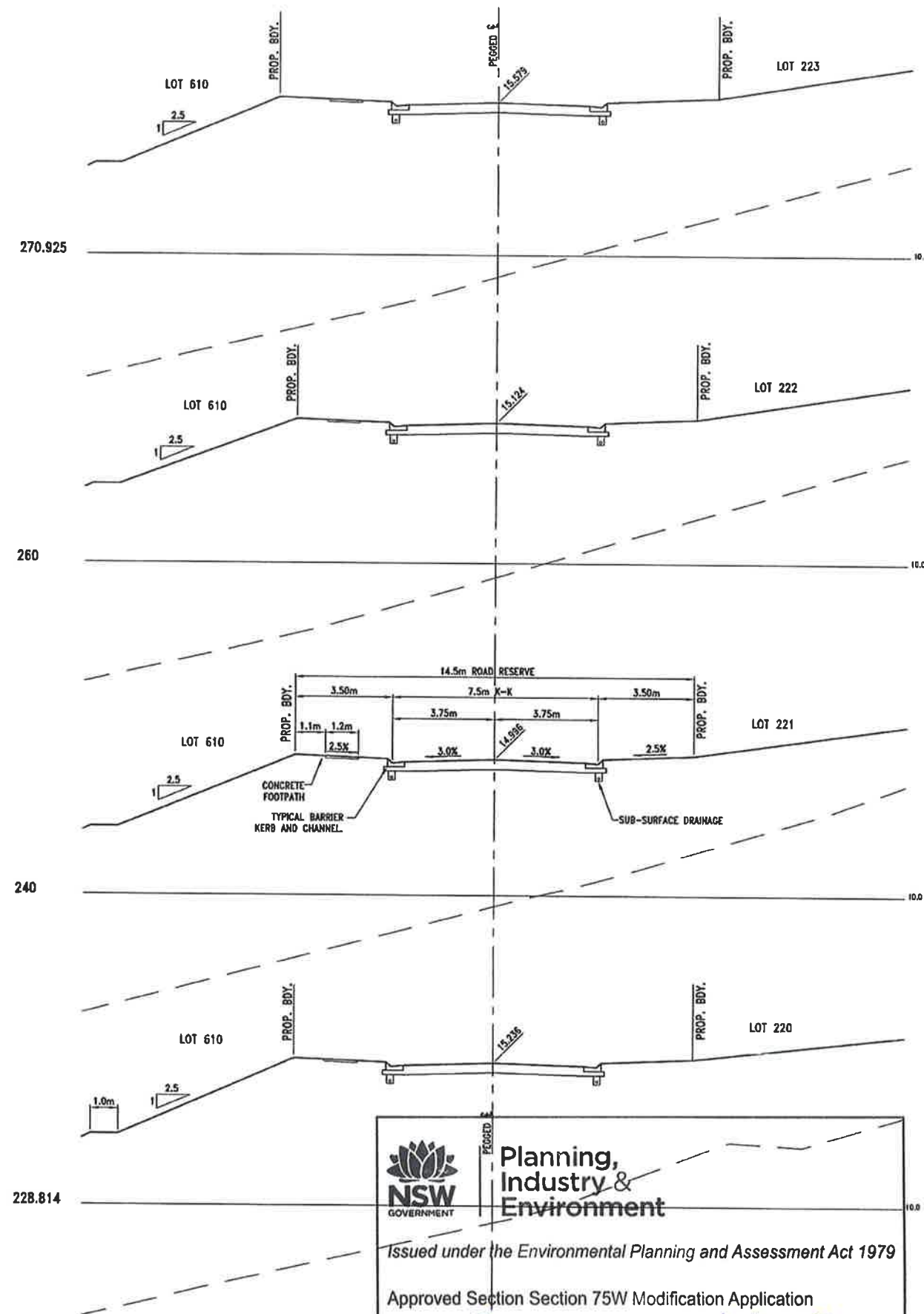
SK 3606
REVISION B

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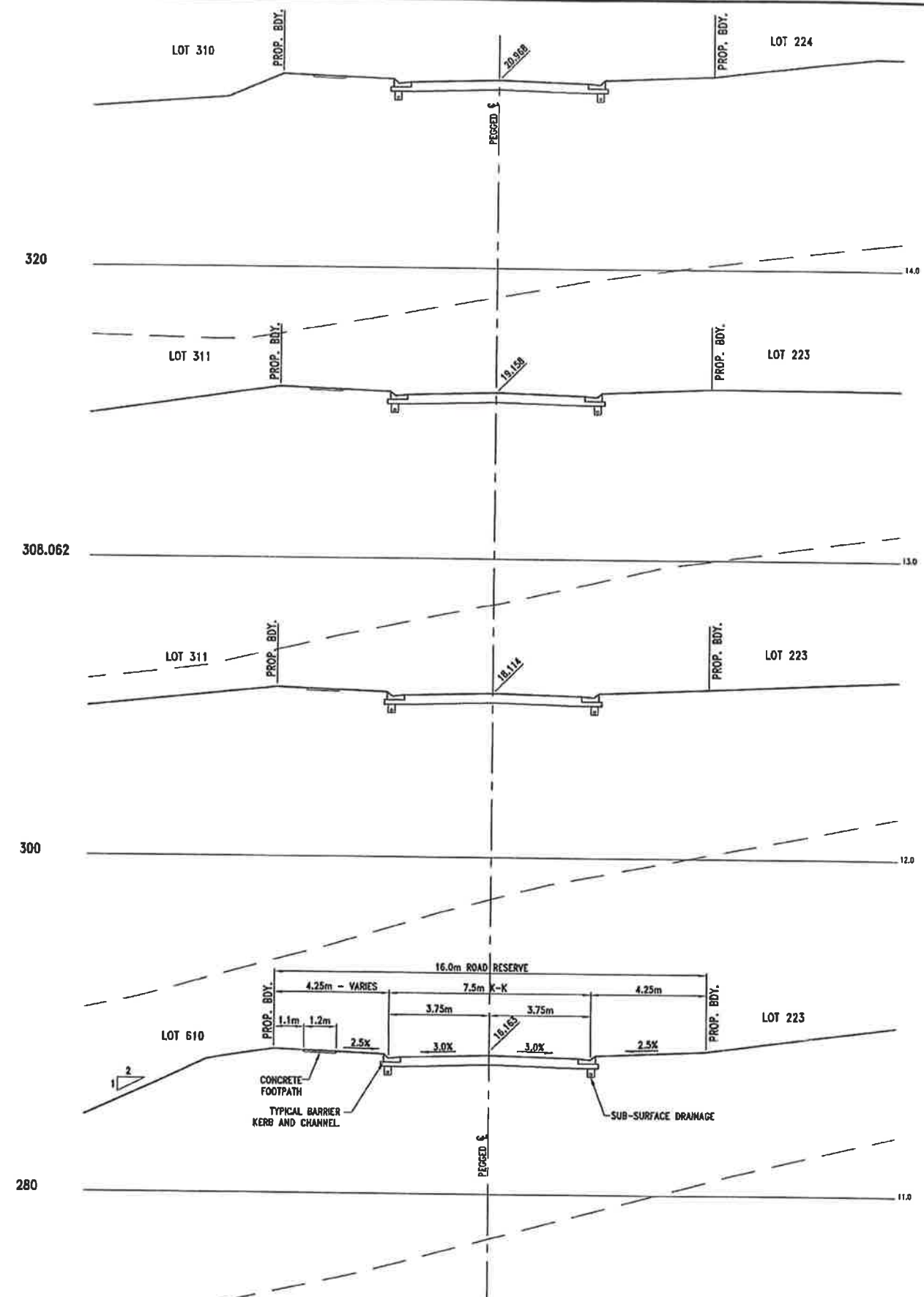
No 3 Granted on 26/11/2019

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Sheet No 83 of 88

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1 : 100 (FULL SIZE)



NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 8 CROSS SECTIONS
SHEET 3 OF 4

SK 3607
REVISION B

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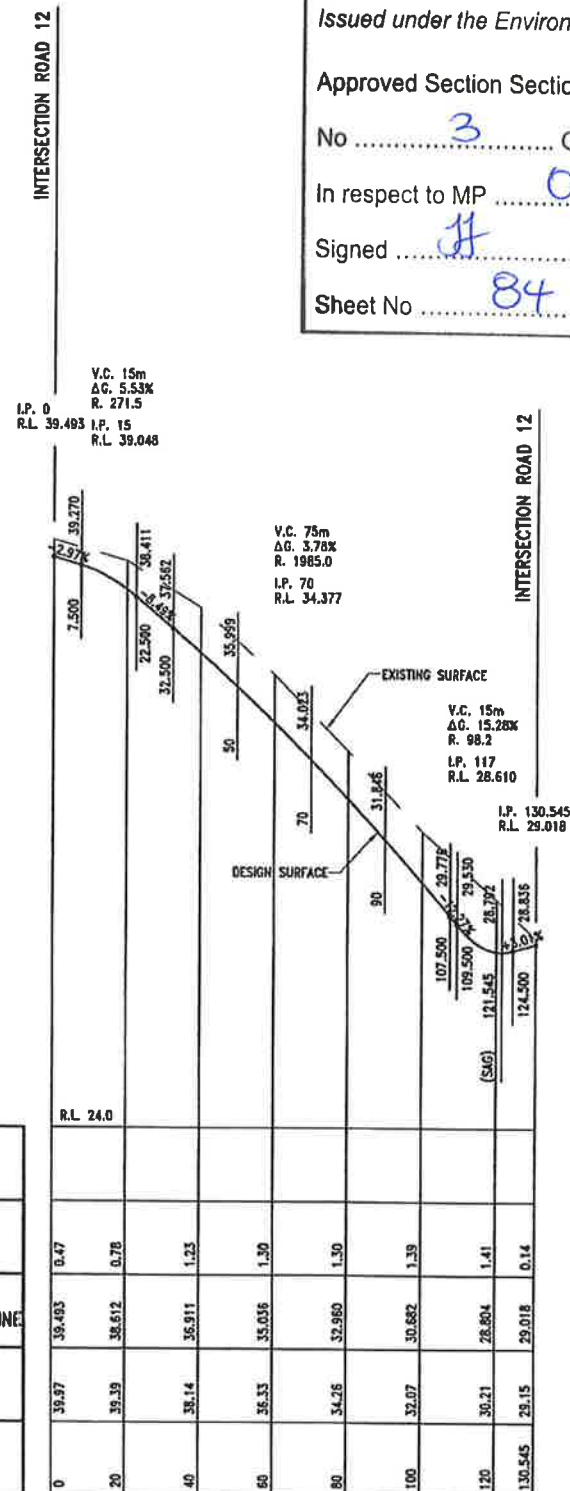
Approved Section 75W Modification Application

No 3 Granted on 26/11/2019

In respect to MP 09-0166

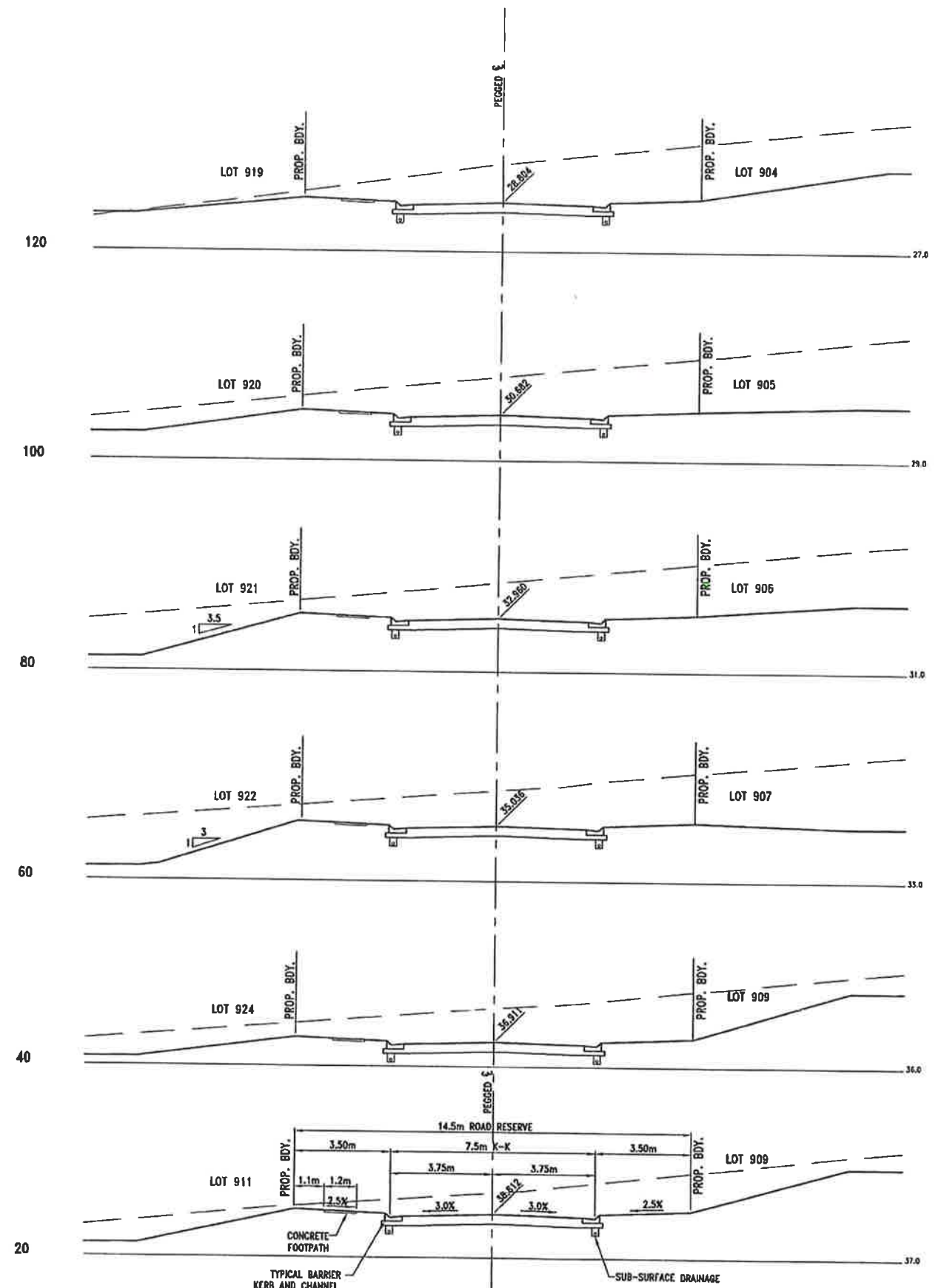
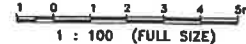
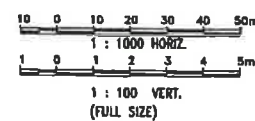
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Sheet No 84 of 88



DATUM
HEIGHT OF FILL
DEPTH OF CUT
PAVEMENT LEVEL ON PEGGED CENTRELINE
EXISTING SURFACE LEVEL
PEGGED CHAINAGE

HORIZONTAL
CURVE DATA



NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 11 LONGITUDINAL AND
CROSS SECTIONS

SK 3612
REVISION B

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Sheet No 85 of 88

INTERSECTION ROAD 10
I.P. 0
R.L. 46.602

V.C. 20m
ΔG. 7.66%
R. 261.2
I.P. 30
R.L. 45.702

INTERSECTION ROAD 11

V.C. 90m
ΔG. 3.25%
R. 2768.9
I.P. 120
R.L. 36.111

INTERSECTION ROAD 13

V.C. 100m
ΔG. 15.37%
R. 650.7
I.P. 292
R.L. 23.372

INTERSECTION ROAD 11

V.C. 15m
ΔG. 2.40%
R. 626.2
I.P. 435
R.L. 31.094

INTERSECTION ROAD 10

DATUM
HEIGHT OF FILL
DEPTH OF CUT
PAVEMENT LEVEL ON PEGGED CENTRELINE
EXISTING SURFACE LEVEL
PEGGED CHAINAGE

HORIZONTAL
CURVE DATA

R15

R15

R15 R15



NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 12
LONGITUDINAL SECTION

09-374
07-01-2013

SK 3613
REVISION 8

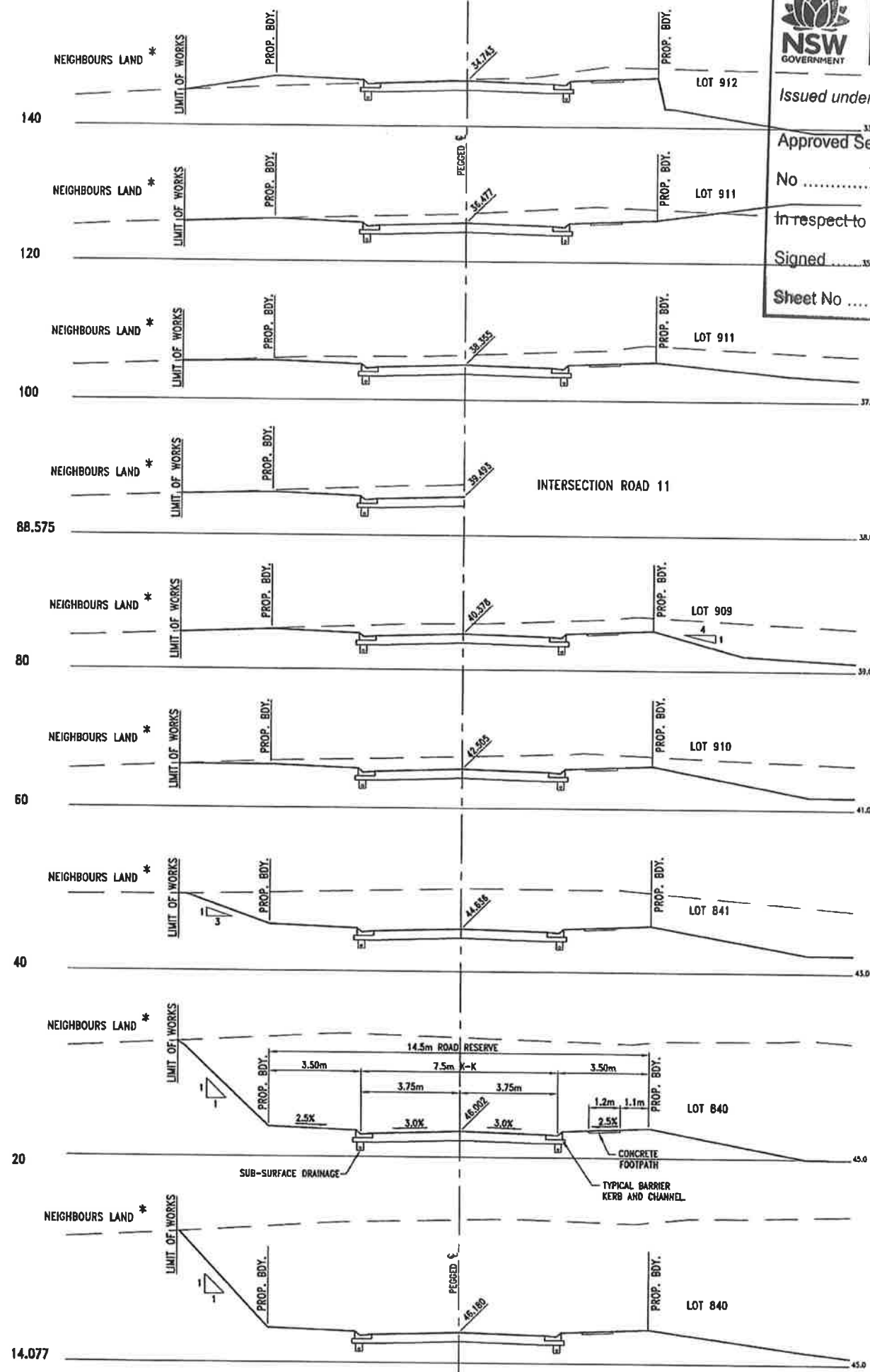
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* BATTER TO EXISTING NEIGHBOURS LAND AT OWNERS CONSENT



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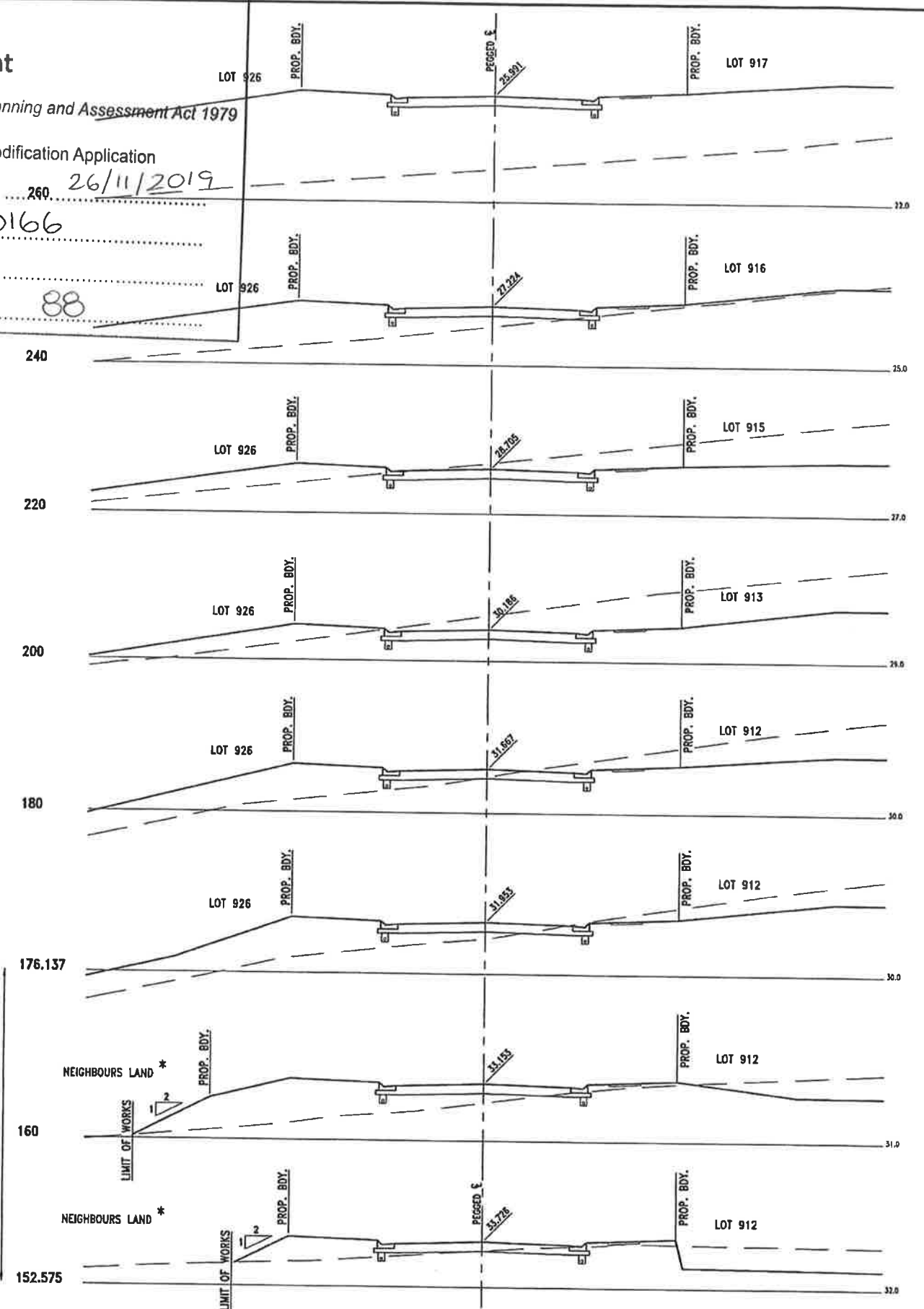
No 3 Granted on 26/11/2019

In respect to MP 09-0166

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Sheet No 86 of 88

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1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 12 CROSS SECTIONS
SHEET 1 OF 2

SK 3614
REVISION B

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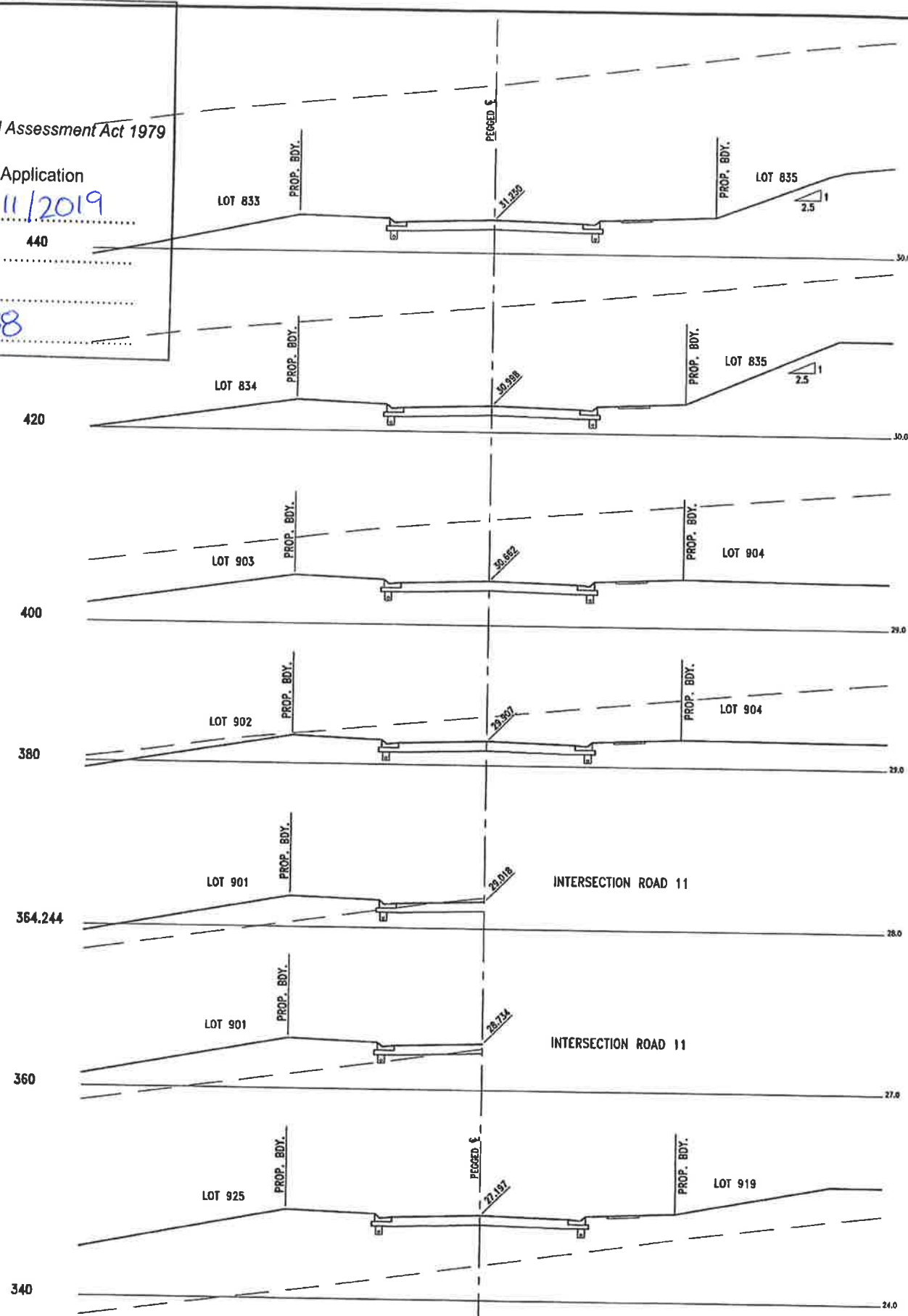
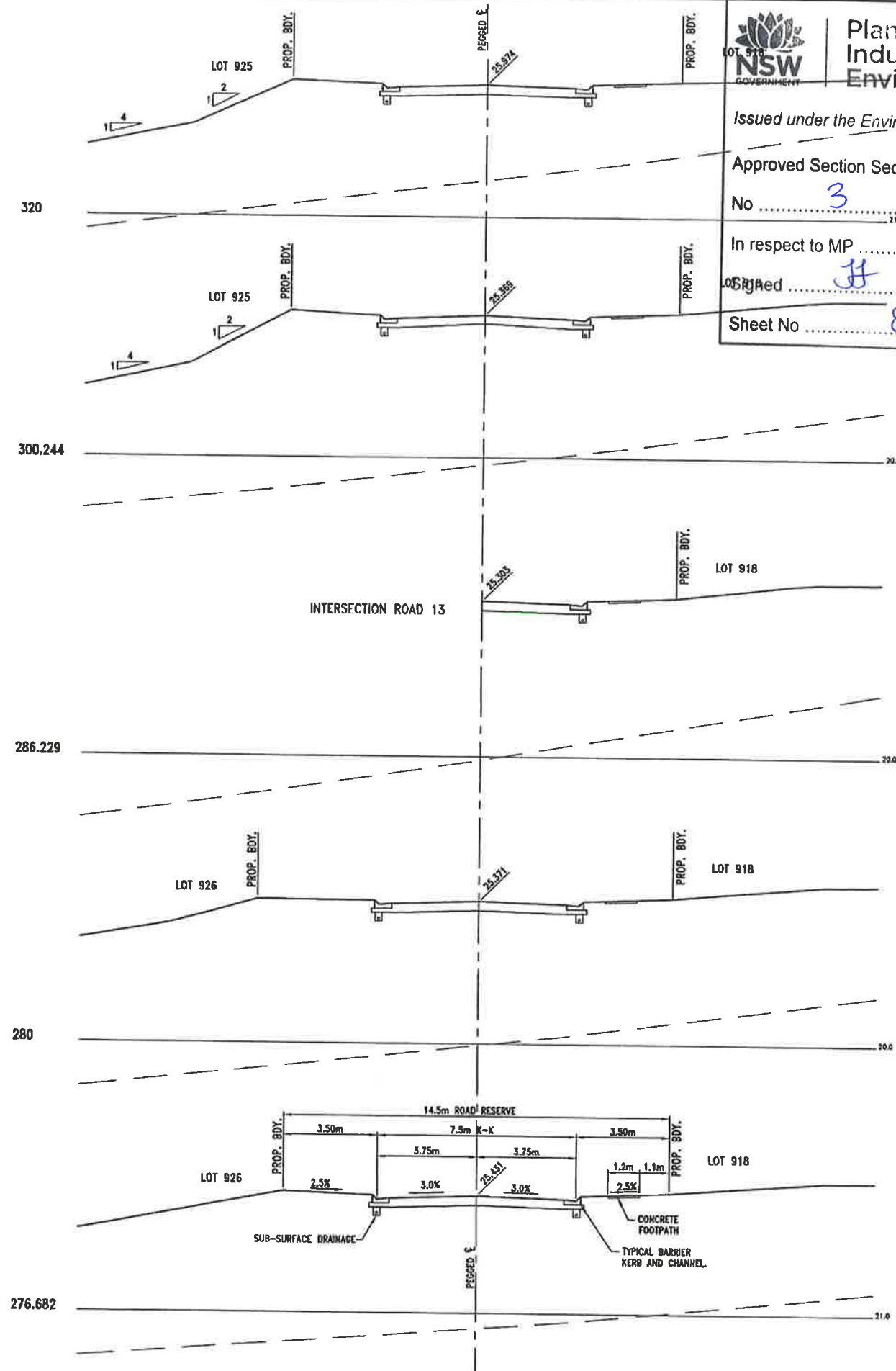
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No 3 Granted on 26/11/2019

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Sheet No 87 of 88



1 0 1 2 3 4 5m
1 : 100 (FULL SIZE)

NEWLAND DEVELOPERS PTY LTD

TERRANORA PRECINCT 1
ROAD 12 CROSS SECTIONS
SHEET 2 OF 2

09-374
07-01-2013

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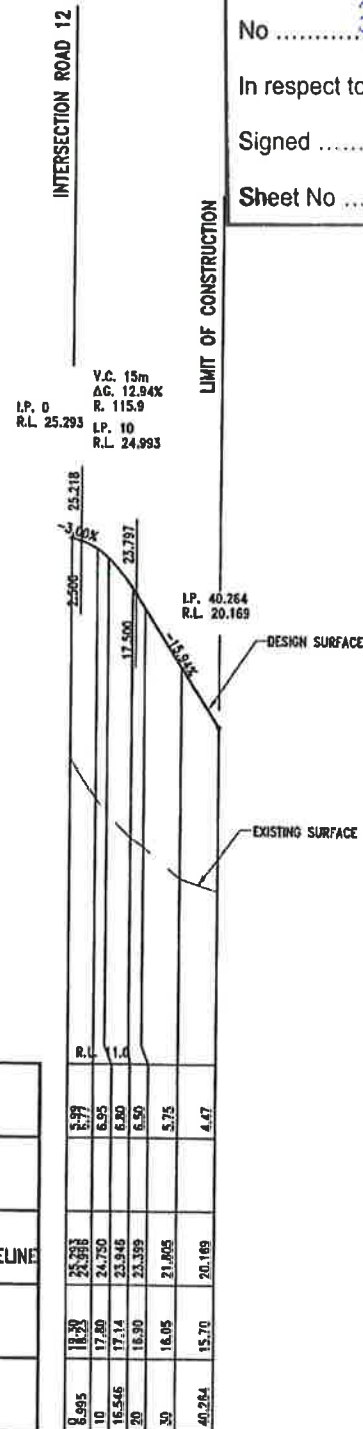
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No 3 Granted on 26/11/2019

In respect to MP 09-0166

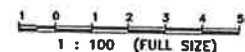
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Sheet No 88 of 88



HORIZONTAL
CURVE DATA

R15

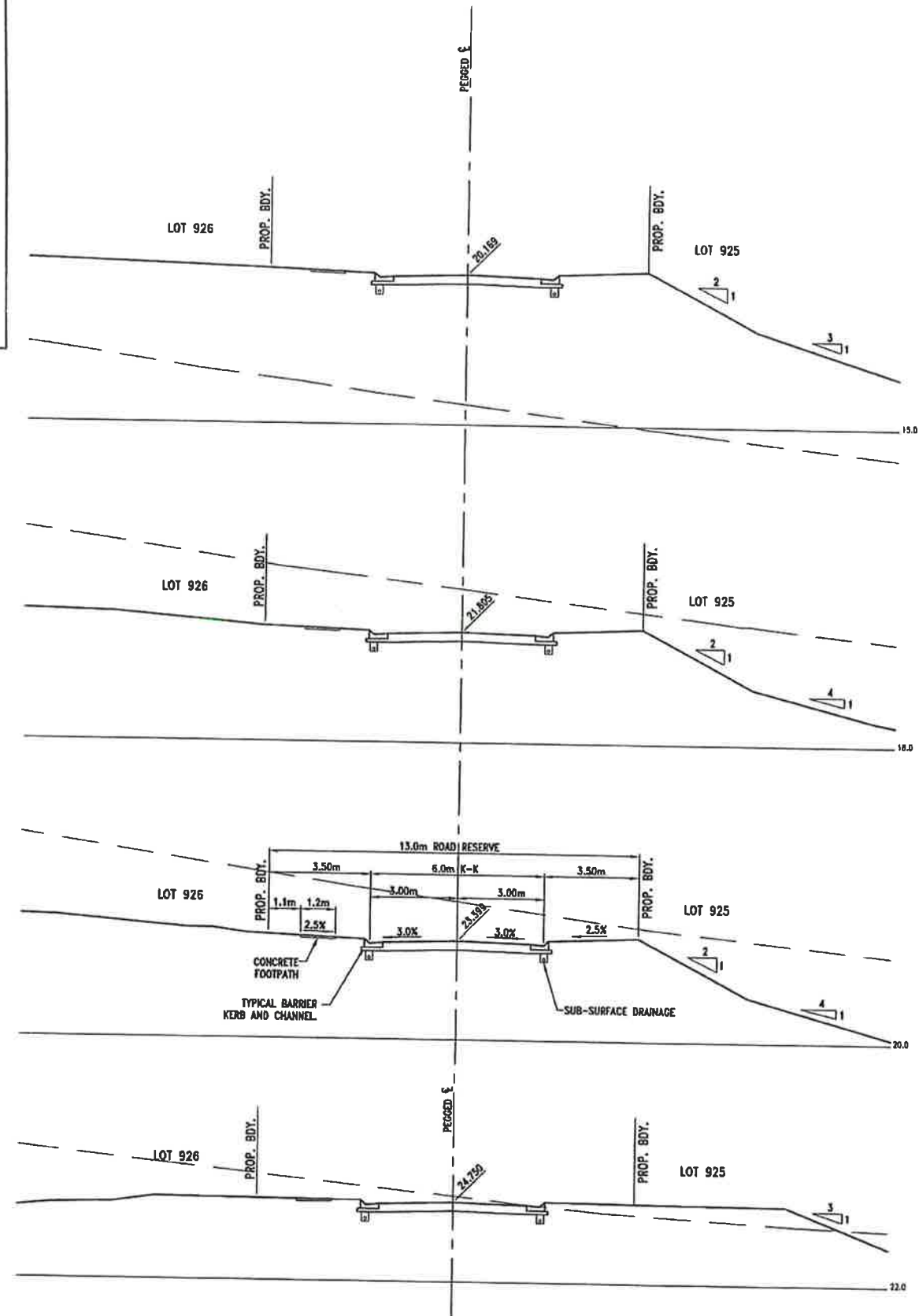


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NEWLAND DEVELOPERS PTY LTD

09-374
07-01-2013

TERRANORA PRECINCT 1
ROAD 13 LONGITUDINAL AND
CROSS SECTIONS

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