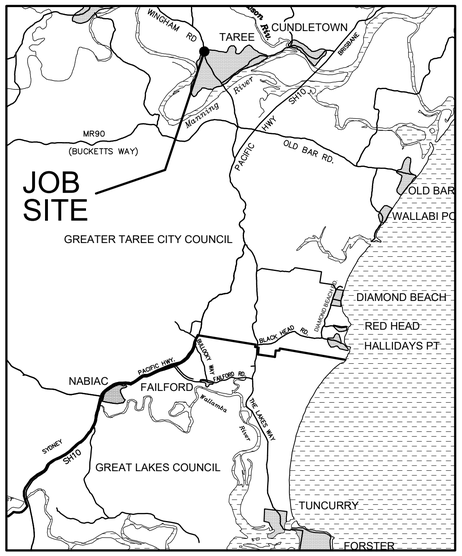
# LSW SURVEYORS

## CONSULTING SURVEYORS, PLANNERS & ENGINEERS

1st FLOOR, 3 WHARF ST. FORSTER 2428 (02) 65547988

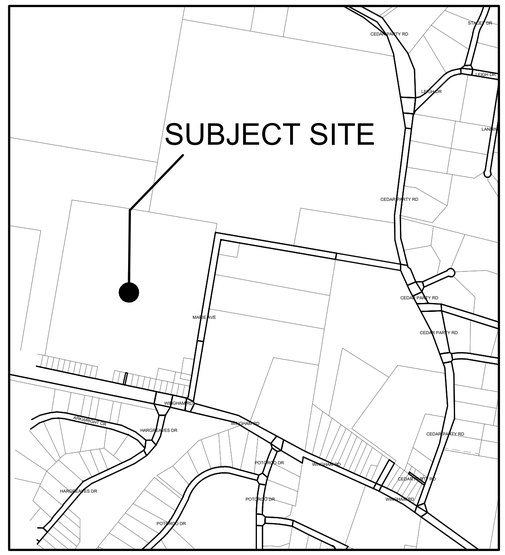
PO BOX 510 FORSTER NSW 2428 EMAIL consult@lswsurveyors.com.au WEBSITE www.lswsurveyors.com.au


# PRELIMINARY ROAD & DRAINAGE WORKS FOR OF LOT 343 DP1118417 'MANNING RISE' DEVELOPMENT WINGHAM ROAD & MARIE AVENUE, TAREE




LOCALITY PLAN

SCALE 1:200 000




SITE PLAN

SCALE 1:10 000

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PRELIMINARY

SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

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NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
TITLE SHEET


LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au


SCALES
HORIZONTAL:
VERTICAL:
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 1 OF 19

FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

## LEGEND

| CODE | DESCRIPTION | LINETYPE |
|---|---|---|
| ELECT | UNDERGROUND ELECTRICITY | UG |
| FCE | FENCE | |
| HYD /SV | HYDRANT / STOPVALVE | |
| PIT | EXISTING STORMWATER | |
| PP /ELP | OVERHEAD ELECTRICITY | O/H |
| RISNG | RISING MAIN | RM |
| SMH | SEWER / MANHOLE | S |
| STN /SSM | SURVEY CONTROL | |
| SW /PIT | DESIGN STORMWATER | |
| TEL | TELSTRA | T |
| TRL | TREELINE | |
| TR | TREE | |
| WATER | WATER SUPPLY | W |

30.0 DENOTES EXISTING NATURAL SURFACE CONTOURS

30.0 DENOTES DESIGN FINISHED SURFACE CONTOURS

## NOTES

1. RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
2. CONTOURS SHOWN DEPICT THE TOPOGRAPHY EXCEPT AT SPOT LEVELS SHOWN. CONTOURS DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT.
3. SERVICES SHOWN THEREON HAVE BEEN DETERMINED FROM VISUAL EVIDENCE ONLY. PRIOR TO ANY DEMOLITION, EXCAVATION OR CONSTRUCTION ON THE SITE THE RELEVANT AUTHORITY SHOULD BE CONTACTED TO ESTABLISH DETAILED LOCATION AND DEPTH.
4. THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:500. TREE LOCATION ARE ONLY ACCURATE TO +/-0.75m
5. TREE SPREADS ARE APPROXIMATE ONLY AND FURTHER SURVEY MAY BE REQUIRED FOR ARCHITECTURAL DESIGN.
6. BEARING AND DISTANCES ARE BY TITLE AND/OR DEED ONLY. NO BOUNDARY INVESTIGATION HAS BEEN CARRIED OUT.
7. THIS DRAWING REMAINS THE PROPERTY OF LSW SURVEYORS AND IS SUBJECT TO DESIGN COPYRIGHT LAWS.
8. THESE NOTES APPLY TO ALL SHEETS IN THIS SET.

## BULK EARTHWORKS PHASE

CUT: 50,000m3
FILL: 78,900m3
NET: 29,000m3 IMPORT REQUIRED

MINUS IMPORT PAVEMENT: 9,400m3 (i.e. BOXOUT ROADS 300mm BELOW FINAL SURFACE)
MINUS 200mm POD/ LOWER PADS UNDER ILU'S: 9,600m3
MINUS: BIORETENTION BASIN MATERIALS: 1,400m3

LEAVES: 8,600m3 (TO BE ACHIEVED PRIMARILY THROUGH YIELD FROM TRENCHING) IMPORT REQUIRED.

NOTES:
NO BULKING FACTOR ALLOWED
NO TOPSOIL DEPTH TAKEN INTO ACCOUNT
SUBJECT TO FINAL SURVEY & DESIGN

## EROSION & SEDIMENT CONTROLS

ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE IN ACCORDANCE WITH N.S.W. DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION" 2004 VOL 1 & 2.

REQUIRE APPROXIMATELY 6,000m3 SEDIMENT BASIN VOLUME (STORAGE AND SETTLING) ACROSS ENTIRE DISTURBED SITE.

FUTURE DETENTION AND BIORETENTION BASINS TO ACT AS TEMPORARY SEDIMENT BASINS. DETENTION BASINS REQUIRED TO BE TEMPORARILY OVER-EXCAVATED BY 500mm TO PROVIDE FOR SUFFICIENT SEDIMENT STORAGE. BIORETENTION BASINS TO BE EXCAVATED TO FINAL BASE LEVEL.

SUBJECT TO FINAL SURVEY & DESIGN

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

0 5 10 20 30 40 50
SCALE 1:1250

BEFORE YOU DIG www.byda.com.au

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
## LAYOUT PLAN

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:1250
VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 2 OF 19

FILE No.:
7564/SENIORS

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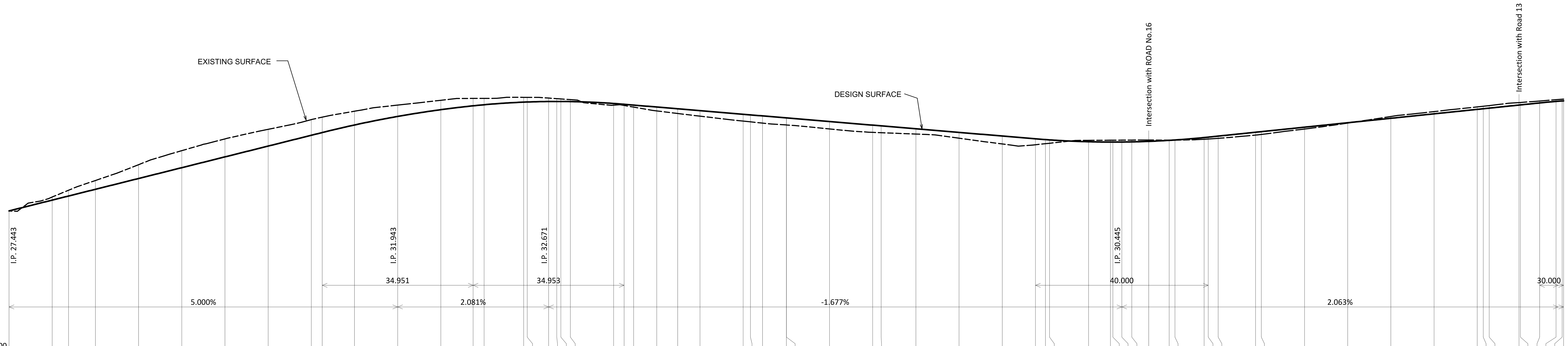


| CHAINAGE | DESIGN SURFACE | EXISTING SURFACE | CUT/FILL |
|---|---|---|---|
| 0.000 | 27.443 | 27.44 | +0.006 |
| 10.000 | 27.943 | 28.09 | -0.145 |
| 13.771 | 28.132 | 28.40 | -0.267 |
| 20.000 | 28.443 | 28.85 | -0.408 |
| 30.000 | 28.943 | 29.58 | -0.640 |
| 40.000 | 29.443 | 30.23 | -0.788 |
| 50.000 | 29.943 | 30.78 | -0.834 |
| 60.000 | 30.443 | 31.22 | -0.777 |
| 70.000 | 30.943 | 31.67 | -0.727 |
| 72.524 | 31.069 | 31.78 | -0.713 |
| 80.000 | 31.420 | 32.06 | -0.636 |
| 90.000 | 31.816 | 32.34 | -0.524 |
| 100.000 | 32.128 | 32.56 | -0.435 |
| 107.476 | 32.307 | 32.65 | -0.342 |
| 110.000 | 32.356 | 32.65 | -0.295 |
| 119.182 | 32.477 | 32.70 | -0.222 |
| 120.000 | 32.483 | 32.70 | -0.216 |
| 124.953 | 32.507 | 32.67 | -0.159 |
| 126.833 | 32.508 | 32.64 | -0.131 |
| 127.790 | 32.508 | 32.63 | -0.117 |
| 130.000 | 32.503 | 32.59 | -0.091 |
| 140.000 | 32.415 | 32.34 | +0.079 |
| 142.429 | 32.378 | 32.32 | +0.054 |
| 144.647 | 32.340 | 32.25 | +0.094 |
| 150.000 | 32.251 | 32.07 | +0.180 |
| 154.842 | 32.169 | 31.95 | +0.217 |
| 160.000 | 32.083 | 31.83 | +0.254 |
| 170.000 | 31.915 | 31.60 | +0.314 |
| 171.697 | 31.887 | 31.57 | +0.322 |
| 174.488 | 31.840 | 31.51 | +0.333 |
| 180.000 | 31.748 | 31.42 | +0.327 |
| 180.040 | 31.747 | 31.42 | +0.327 |
| 190.000 | 31.580 | 31.24 | +0.343 |
| 200.000 | 31.412 | 31.08 | +0.334 |
| 201.952 | 31.379 | 31.06 | +0.317 |
| 210.000 | 31.244 | 31.00 | +0.244 |
| 220.000 | 31.077 | 30.81 | +0.268 |
| 230.000 | 30.909 | 30.54 | +0.366 |
| 237.693 | 30.780 | 30.51 | +0.274 |
| 240.000 | 30.744 | 30.55 | +0.190 |
| 240.947 | 30.730 | 30.57 | +0.157 |
| 250.000 | 30.644 | 30.71 | -0.064 |
| 255.043 | 30.630 | 30.71 | -0.085 |
| 255.631 | 30.630 | 30.72 | -0.086 |
| 257.693 | 30.632 | 30.72 | -0.087 |
| 260.000 | 30.639 | 30.72 | -0.083 |
| 263.912 | 30.662 | 30.72 | -0.061 |
| 268.663 | 30.709 | 30.72 | -0.009 |
| 270.000 | 30.726 | 30.72 | +0.006 |
| 276.746 | 30.838 | 30.76 | +0.079 |
| 277.693 | 30.857 | 30.77 | +0.087 |
| 280.000 | 30.905 | 30.80 | +0.104 |
| 288.666 | 31.083 | 30.95 | +0.132 |
| 290.000 | 31.111 | 30.98 | +0.129 |
| 300.000 | 31.317 | 31.23 | +0.085 |
| 310.000 | 31.524 | 31.51 | +0.017 |
| 320.000 | 31.730 | 31.81 | -0.081 |
| 330.000 | 31.936 | 32.04 | -0.103 |
| 340.000 | 32.142 | 32.26 | -0.114 |
| 341.394 | 32.171 | 32.29 | -0.116 |
| 342.764 | 32.199 | 32.32 | -0.118 |
| 349.665 | 32.342 | 32.46 | -0.115 |
| 350.000 | 32.349 | 32.46 | -0.113 |
| 354.460 | 32.441 | 32.53 | -0.088 |
| 358.236 | 32.511 | 32.59 | -0.081 |
| 359.660 | 32.533 | 32.61 | -0.080 |
| 360.000 | 32.538 | 32.62 | -0.080 |

HORIZONTAL GEOMETRY

- L=13.771 B=283°50'34"
- L=111.182 R=1414.99
- L=49.535 B=278°48'12"
- L=27.464 B=280°08'30"
- L=38.995 B=281°06'04"
- L=27.716 B=282°12'39"
- L=20.003 R=53.73
- L=54.098 R=84.47
- L=15.472 R=78.31
- L=80.884 R=109.89

# LONGITUDINAL SECTION ROAD No.1

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.: F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED: JK/PJL

PROJECT
PRELIMINARY ROAD & DRAINAGE DESIGN
OF LOT 343 DP1118417
WINGHAM ROAD & MARIE AVENUE, TAREE
LONGITUDINAL SECTION ROAD No.1

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SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL: MID-COAST COUNCIL

DATE: 23/10/20

SHEET 3 OF 19

FILE No.: 7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
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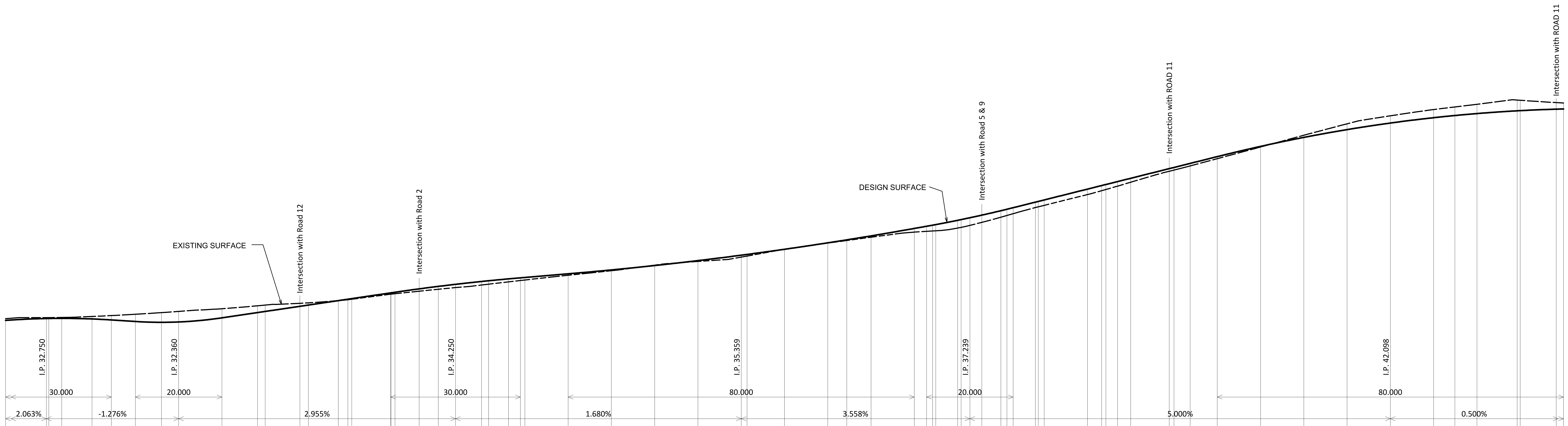


R.L. 26.000

| CHAINAGE | CUT/FILL | DESIGN SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 360.000 | -0.080 | 32.538 | 32.62 |
| 369.460 | -0.041 | 32.625 | 32.67 |
| 370.000 | -0.040 | 32.627 | 32.67 |
| 372.992 | -0.040 | 32.632 | 32.67 |
| 380.000 | -0.115 | 32.604 | 32.72 |
| 384.460 | -0.202 | 32.559 | 32.76 |
| 390.000 | -0.333 | 32.488 | 32.82 |
| 396.034 | -0.448 | 32.449 | 32.90 |
| 400.000 | -0.486 | 32.466 | 32.95 |
| 410.000 | -0.420 | 32.656 | 33.08 |
| 418.221 | -0.312 | 32.899 | 33.21 |
| 420.000 | -0.293 | 32.951 | 33.24 |
| 428.018 | -0.139 | 33.188 | 33.33 |
| 430.000 | -0.102 | 33.247 | 33.35 |
| 436.900 | -0.001 | 33.450 | 33.45 |
| 439.120 | +0.024 | 33.516 | 33.49 |
| 440.000 | +0.027 | 33.542 | 33.52 |
| 448.976 | +0.059 | 33.807 | 33.75 |
| 449.086 | +0.061 | 33.811 | 33.75 |
| 450.000 | +0.066 | 33.837 | 33.77 |
| 455.580 | +0.108 | 33.993 | 33.89 |
| 460.000 | +0.132 | 34.107 | 33.97 |
| 463.976 | +0.148 | 34.203 | 34.05 |
| 470.000 | +0.164 | 34.335 | 34.17 |
| 471.632 | +0.159 | 34.368 | 34.21 |
| 476.224 | +0.139 | 34.455 | 34.32 |
| 478.976 | +0.123 | 34.502 | 34.38 |
| 480.000 | +0.117 | 34.520 | 34.40 |
| 490.000 | +0.066 | 34.688 | 34.62 |
| 500.000 | +0.036 | 34.867 | 34.83 |
| 510.000 | -0.018 | 35.070 | 35.09 |
| 520.000 | +0.039 | 35.297 | 35.26 |
| 530.000 | +0.087 | 35.547 | 35.46 |
| 531.349 | +0.076 | 35.583 | 35.51 |
| 540.000 | -0.005 | 35.821 | 35.83 |
| 550.000 | +0.012 | 36.118 | 36.11 |
| 554.387 | +0.029 | 36.256 | 36.23 |
| 560.000 | +0.062 | 36.439 | 36.38 |
| 570.000 | +0.169 | 36.783 | 36.61 |
| 572.835 | +0.235 | 36.884 | 36.65 |
| 574.231 | +0.267 | 36.934 | 36.67 |
| 574.936 | +0.286 | 36.960 | 36.67 |
| 580.000 | +0.357 | 37.157 | 36.80 |
| 580.804 | +0.359 | 37.190 | 36.83 |
| 582.835 | +0.352 | 37.275 | 36.92 |
| 585.601 | +0.334 | 37.397 | 37.06 |
| 590.000 | +0.299 | 37.601 | 37.30 |
| 591.398 | +0.286 | 37.668 | 37.38 |
| 592.835 | +0.276 | 37.739 | 37.46 |
| 597.986 | +0.248 | 37.997 | 37.75 |
| 598.630 | +0.249 | 38.029 | 37.78 |
| 600.000 | +0.249 | 38.098 | 37.85 |
| 610.000 | +0.252 | 38.598 | 38.35 |
| 613.281 | +0.237 | 38.762 | 38.52 |
| 614.254 | +0.231 | 38.810 | 38.58 |
| 616.965 | +0.209 | 38.946 | 38.74 |
| 620.000 | +0.183 | 39.098 | 38.92 |
| 628.906 | +0.121 | 39.543 | 39.42 |
| 630.000 | +0.121 | 39.598 | 39.48 |
| 633.726 | +0.116 | 39.784 | 39.67 |
| 640.000 | +0.095 | 40.098 | 40.00 |
| 650.000 | +0.027 | 40.569 | 40.54 |
| 660.000 | -0.100 | 40.985 | 41.09 |
| 670.000 | -0.268 | 41.344 | 41.61 |
| 680.000 | -0.334 | 41.648 | 41.98 |
| 690.000 | -0.378 | 41.894 | 42.27 |
| 694.900 | -0.394 | 41.995 | 42.39 |
| 700.000 | -0.428 | 42.085 | 42.51 |
| 709.298 | -0.497 | 42.212 | 42.71 |
| 710.000 | -0.480 | 42.219 | 42.70 |
| 718.312 | -0.304 | 42.288 | 42.59 |
| 720.000 | -0.275 | 42.298 | 42.57 |

HORIZONTAL GEOMETRY

| | |
|---|---|
| L=80.884 | R=109.89 |
| L=32.512 | R=2482.35 |
| L=59.717 | R=623.35 |
| L=23.038 | B=39°01'59" |
| L=19.844 | B=38°16'54" |
| L=23.755 | R=39.30 |
| L=0.644 | B=61°21'10" |
| L=15.623 | B=61°50'59" |
| L=80.647 | R=100.51 |
| L=57.010 | R=162.77 |

## LONGITUDINAL SECTION ROAD No.1

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

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CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED: JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.1

LSW SURVEYORS, PLANNERS & ENGINEERS
LSW SURVEYORS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
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EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL: MID-COAST COUNCIL

DATE: 23/10/20

SHEET 4 OF 19

FILE No.: 7564/SENIORS

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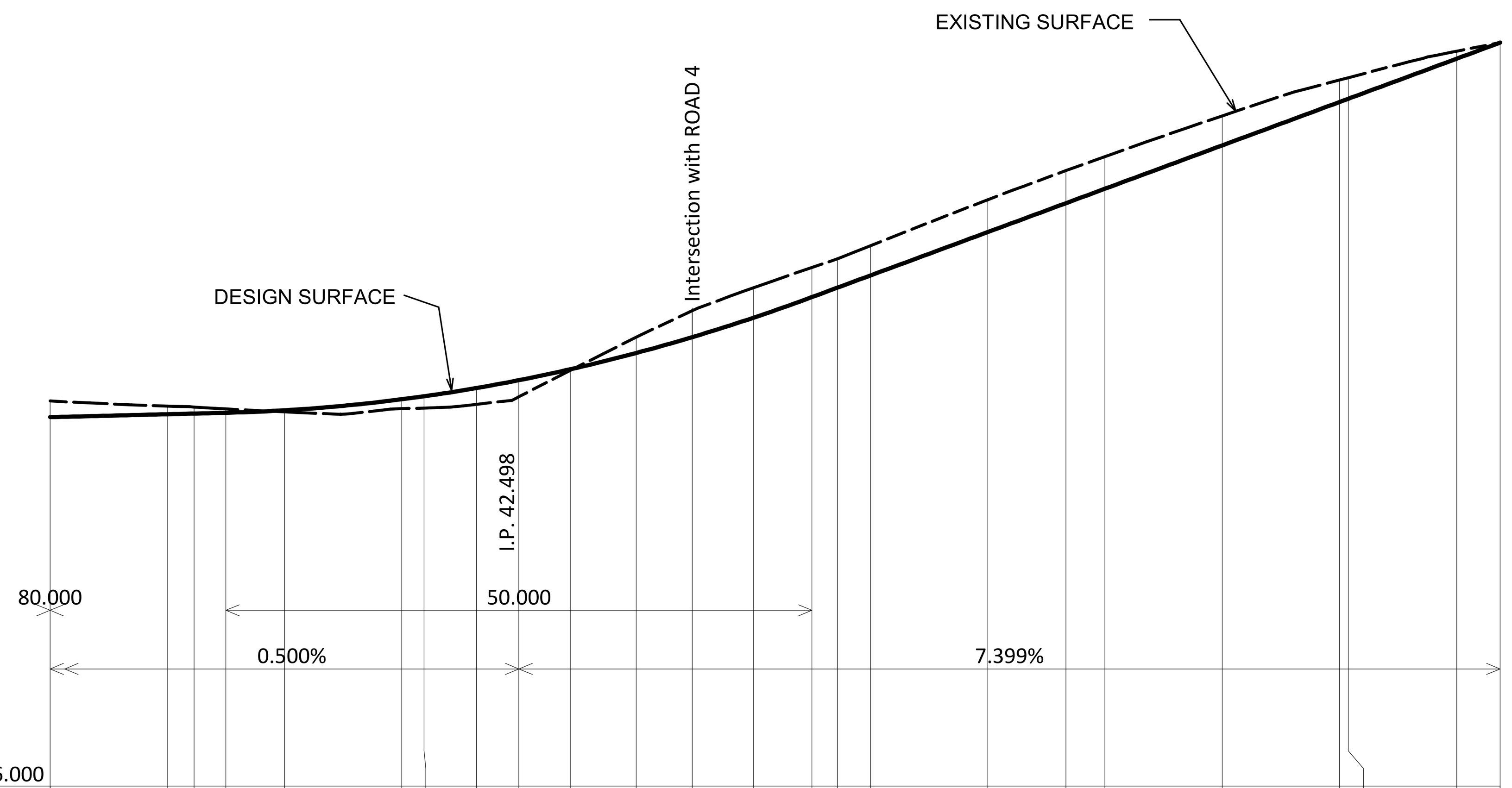
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

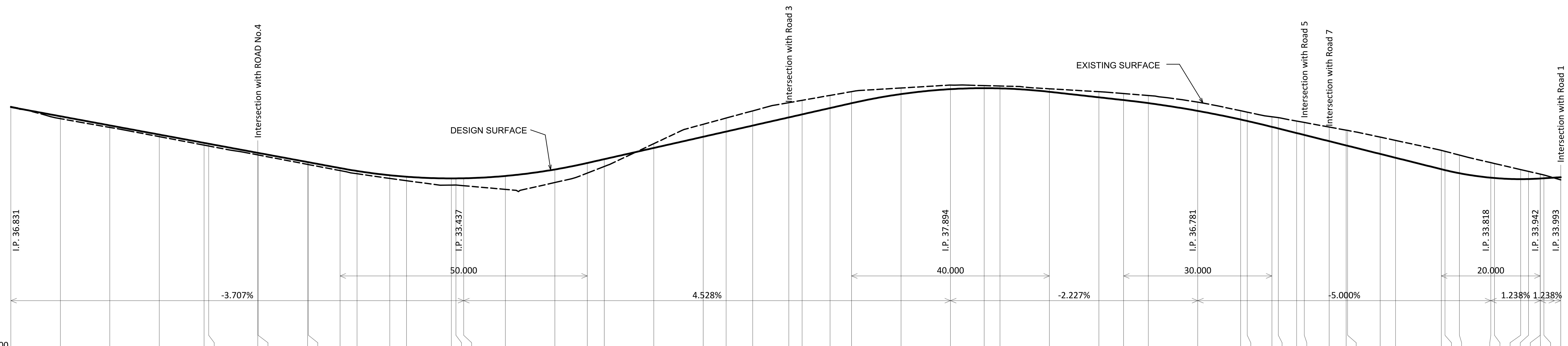



R.L. 36.000

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.275 | -0.139 | -0.111 | -0.065 | +0.028 | +0.161 | +0.200 | +0.279 | +0.282 | +0.016 | -0.269 | -0.451 | -0.511 | -0.506 | -0.493 | -0.509 | -0.552 | -0.556 | -0.549 | -0.504 | -0.375 | -0.358 | -0.128 | +0.000 |
| DESIGN SURFACE | 42.298 | 42.348 | 42.359 | 42.373 | 42.415 | 42.603 | 42.654 | 42.795 | 42.929 | 43.116 | 43.393 | 43.664 | 43.995 | 44.347 | 44.509 | 44.717 | 45.457 | 45.951 | 46.197 | 46.937 | 47.677 | 47.732 | 48.416 | 48.691 |
| EXISTING SURFACE | 42.57 | 42.49 | 42.47 | 42.44 | 42.39 | 42.44 | 42.45 | 42.52 | 42.65 | 43.10 | 43.66 | 44.11 | 44.51 | 44.85 | 45.00 | 45.23 | 46.01 | 46.51 | 46.75 | 47.44 | 48.05 | 48.09 | 48.54 | 48.69 |
| CHAINAGE | 720.000 | 730.000 | 732.285 | 735.000 | 740.000 | 750.000 | 751.910 | 756.372 | 760.000 | 764.409 | 770.000 | 774.786 | 780.000 | 785.000 | 787.182 | 790.000 | 800.000 | 806.674 | 810.000 | 820.000 | 830.000 | 830.746 | 840.000 | 843.710 |

HORIZONTAL GEOMETRY: L=57.010 R=162.77 | L=4.461 R=17.92 | L=50.302 R=165.05 | L=24.072 R=155.88 | L=12.964 B=104°14'09"

# LONGITUDINAL SECTION ROAD No.1




R.L. 27.000

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.020 | +0.096 | +0.081 | +0.084 | +0.091 | +0.091 | +0.083 | +0.082 | +0.094 | +0.093 | +0.100 | +0.111 | +0.130 | +0.161 | +0.270 |
| DESIGN SURFACE | 36.831 | 36.460 | 36.090 | 35.719 | 35.383 | 35.348 | 34.980 | 34.977 | 34.607 | 34.600 | 34.363 | 34.246 | 34.074 | 34.014 | 33.946 |
| EXISTING SURFACE | 36.85 | 36.36 | 36.01 | 35.64 | 35.29 | 35.26 | 34.90 | 34.89 | 34.51 | 34.51 | 34.26 | 34.13 | 33.94 | 33.85 | 33.68 |
| CHAINAGE | 0.000 | 10.000 | 20.000 | 30.000 | 39.067 | 40.000 | 49.932 | 50.000 | 60.000 | 60.175 | 66.562 | 70.000 | 76.611 | 80.000 | 89.069 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | +0.269 | +0.300 | +0.543 | +0.528 | +0.408 | +0.297 | -0.174 | -0.506 | -0.547 | -0.595 | -0.596 | -0.569 | -0.512 | -0.468 | -0.246 |
| DESIGN SURFACE | 33.947 | 33.951 | 34.045 | 34.307 | 34.569 | 34.725 | 35.177 | 35.630 | 35.840 | 36.083 | 36.414 | 36.536 | 36.792 | 36.989 | 37.357 |
| EXISTING SURFACE | 33.68 | 33.65 | 33.50 | 33.78 | 34.16 | 34.43 | 35.35 | 36.14 | 36.39 | 36.68 | 37.01 | 37.11 | 37.30 | 37.46 | 37.60 |
| CHAINAGE | 90.000 | 91.562 | 100.000 | 110.000 | 116.562 | 120.000 | 130.000 | 140.000 | 144.634 | 150.000 | 157.304 | 160.000 | 165.652 | 170.000 | 180.000 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.164 | -0.104 | -0.097 | -0.122 | -0.228 | -0.265 | -0.308 | -0.353 | -0.354 | -0.357 | -0.407 | -0.438 | -0.484 | -0.505 | -0.572 |
| DESIGN SURFACE | 37.557 | 37.596 | 37.587 | 37.449 | 37.226 | 37.115 | 36.992 | 36.677 | 36.329 | 36.269 | 36.031 | 35.966 | 35.781 | 35.704 | 35.451 |
| EXISTING SURFACE | 37.72 | 37.70 | 37.68 | 37.57 | 37.45 | 37.38 | 37.30 | 37.03 | 36.68 | 36.63 | 36.44 | 36.40 | 36.27 | 36.21 | 36.02 |
| CHAINAGE | 190.000 | 196.812 | 200.000 | 210.000 | 220.000 | 225.000 | 230.000 | 240.000 | 248.670 | 250.000 | 255.000 | 256.285 | 260.000 | 261.542 | 266.585 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.617 | -0.622 | -0.680 | -0.701 | -0.763 | -0.760 | -0.734 | -0.610 | -0.588 | -0.386 | -0.308 | -0.177 | -0.177 | -0.133 | +0.108 |
| DESIGN SURFACE | 35.281 | 35.265 | 34.936 | 34.781 | 34.318 | 34.282 | 34.156 | 33.974 | 33.961 | 33.917 | 33.921 | 33.942 | 33.942 | 33.951 | 33.993 |
| EXISTING SURFACE | 35.90 | 35.89 | 35.62 | 35.48 | 35.08 | 35.04 | 34.89 | 34.58 | 34.55 | 34.30 | 34.23 | 34.12 | 34.12 | 34.08 | 33.89 |
| CHAINAGE | 270.000 | 270.305 | 276.885 | 280.000 | 289.255 | 290.000 | 292.903 | 299.255 | 300.000 | 305.285 | 306.891 | 309.255 | 309.256 | 310.000 | 313.400 |

HORIZONTAL GEOMETRY: L=76.611 B=279°09'37" | L=236.789 B=280°42'04"

# LONGITUDINAL SECTION ROAD No.2

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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Liability limited by a scheme approved under Professional Standards Legislation

HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX
PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX
DRAWN/CHECKED:
JK/PJL

PROJECT
## PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.1 & No.2

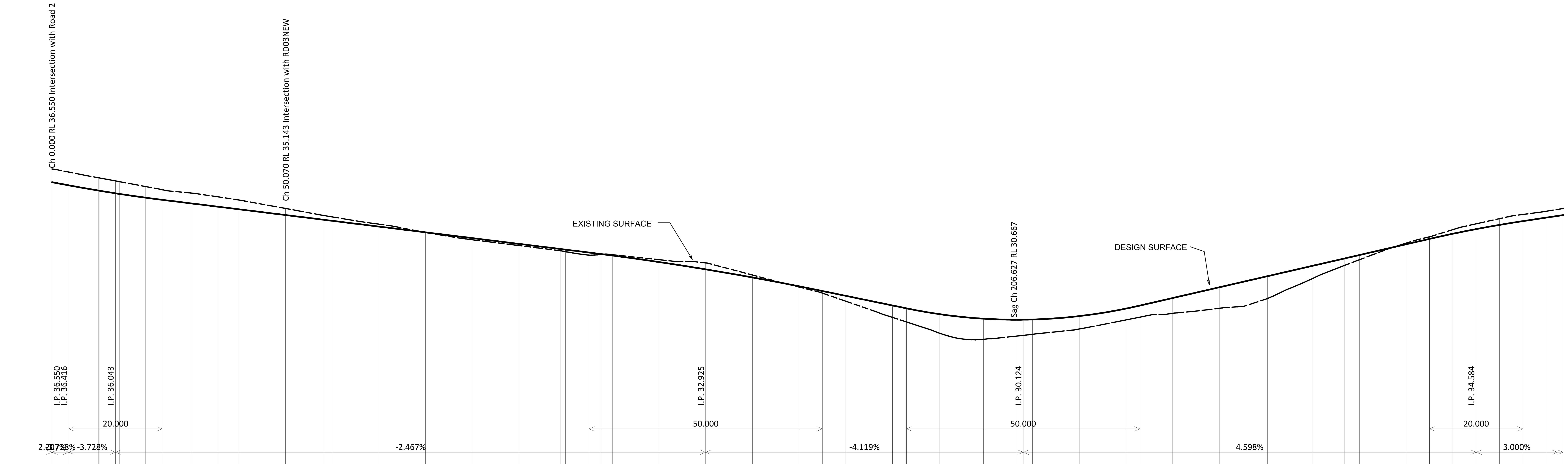
LSW SURVEYORS, PLANNERS & ENGINEERS
LSW SURVEYORS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1
FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL
DATE:
23/10/20


FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




| CHAINAGE | DESIGN SURFACE | EXISTING SURFACE | CUT/FILL |
|---|---|---|---|
| 0.000 | 36.550 | 37.12 | -0.566 |
| 3.603 | 36.416 | 36.98 | -0.567 |
| 3.604 | 36.416 | 36.98 | -0.567 |
| 10.000 | 36.190 | 36.74 | -0.548 |
| 10.099 | 36.187 | 36.73 | -0.547 |
| 13.604 | 36.074 | 36.60 | -0.531 |
| 14.433 | 36.049 | 36.57 | -0.525 |
| 20.000 | 35.889 | 36.37 | -0.478 |
| 23.604 | 35.796 | 36.23 | -0.433 |
| 30.000 | 35.638 | 36.08 | -0.443 |
| 35.550 | 35.501 | 35.92 | -0.422 |
| 40.000 | 35.392 | 35.79 | -0.397 |
| 50.000 | 35.145 | 35.43 | -0.283 |
| 50.070 | 35.143 | 35.42 | -0.282 |
| 58.222 | 34.942 | 35.13 | -0.185 |
| 60.000 | 34.898 | 35.07 | -0.169 |
| 70.000 | 34.652 | 34.75 | -0.103 |
| 80.000 | 34.405 | 34.39 | +0.010 |
| 90.000 | 34.158 | 34.09 | +0.069 |
| 100.000 | 33.912 | 33.84 | +0.072 |
| 108.849 | 33.693 | 33.62 | +0.074 |
| 110.000 | 33.665 | 33.58 | +0.087 |
| 115.000 | 33.542 | 33.43 | +0.112 |
| 117.542 | 33.478 | 33.46 | +0.021 |
| 120.000 | 33.414 | 33.45 | -0.034 |
| 130.000 | 33.134 | 33.24 | -0.101 |
| 140.000 | 32.822 | 33.10 | -0.274 |
| 150.000 | 32.476 | 32.58 | -0.105 |
| 160.000 | 32.097 | 32.07 | +0.031 |
| 165.000 | 31.895 | 31.80 | +0.091 |
| 170.000 | 31.689 | 31.46 | +0.230 |
| 180.000 | 31.277 | 30.77 | +0.510 |
| 182.734 | 31.165 | 30.59 | +0.574 |
| 183.000 | 31.154 | 30.57 | +0.580 |
| 190.000 | 30.908 | 30.10 | +0.812 |
| 199.468 | 30.712 | 29.83 | +0.883 |
| 200.000 | 30.705 | 29.84 | +0.865 |
| 206.627 | 30.667 | 29.97 | +0.698 |
| 208.000 | 30.669 | 30.00 | +0.669 |
| 210.000 | 30.677 | 30.05 | +0.631 |
| 220.000 | 30.823 | 30.27 | +0.552 |
| 230.000 | 31.143 | 30.66 | +0.486 |
| 233.000 | 31.273 | 30.78 | +0.495 |
| 240.000 | 31.595 | 30.94 | +0.655 |
| 250.000 | 32.055 | 31.16 | +0.897 |
| 260.000 | 32.515 | 31.55 | +0.963 |
| 260.295 | 32.528 | 31.57 | +0.956 |
| 270.000 | 32.975 | 32.43 | +0.541 |
| 276.749 | 33.285 | 32.99 | +0.300 |
| 280.000 | 33.435 | 33.23 | +0.201 |
| 290.000 | 33.894 | 33.94 | -0.048 |
| 295.000 | 34.124 | 34.21 | -0.090 |
| 300.000 | 34.344 | 34.52 | -0.176 |
| 305.000 | 34.544 | 34.77 | -0.226 |
| 310.000 | 34.724 | 34.99 | -0.267 |
| 315.000 | 34.884 | 35.17 | -0.285 |
| 320.000 | 35.034 | 35.31 | -0.274 |
| 323.634 | 35.143 | 35.42 | -0.282 |

HORIZONTAL GEOMETRY: L=35.550 R=379.23 | L=22.671 R=379.23 | L=50.627 R=347.28 | L=8.693 R=6.00 | L=65.191 B=97°42'05" | L=16.735 R=9.00 | L=60.826 R=127.09 | L=16.454 R=18.70 | L=46.885 R=381.79

# LONGITUDINAL SECTION ROAD No.3

**PRELIMINARY**
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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Liability limited by a scheme approved under Professional Standards Legislation

HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX
PLOT FILE/DWG No.: F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX
DRAWN/CHECKED: JK/PJL

PROJECT
PRELIMINARY ROAD & DRAINAGE DESIGN
OF LOT 343 DP1118417
WINGHAM ROAD & MARIE AVENUE, TAREE
LONGITUDINAL SECTION ROAD No.3

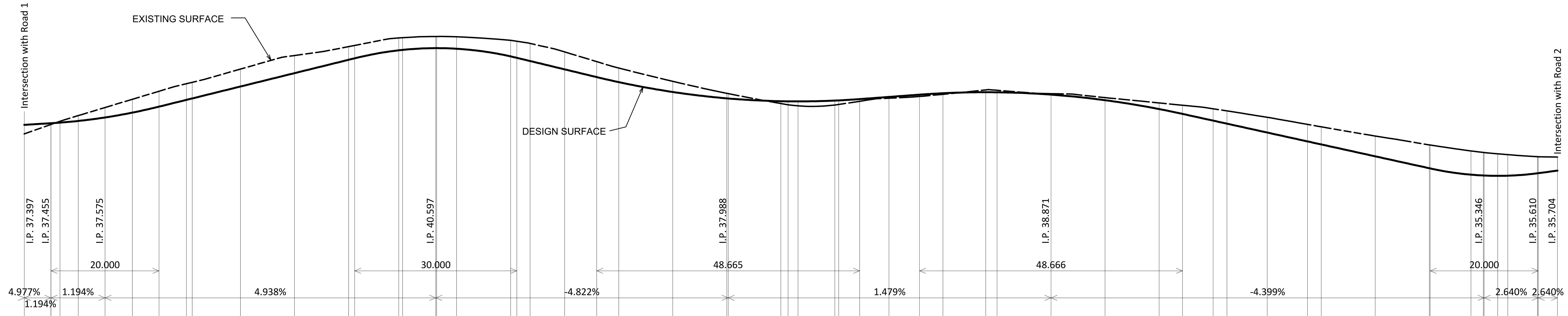
LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1
FIELD SHEETS
Date of survey:

COUNCIL: MID-COAST COUNCIL
DATE: 23/10/20


FILE No.: 7564/SENIORS

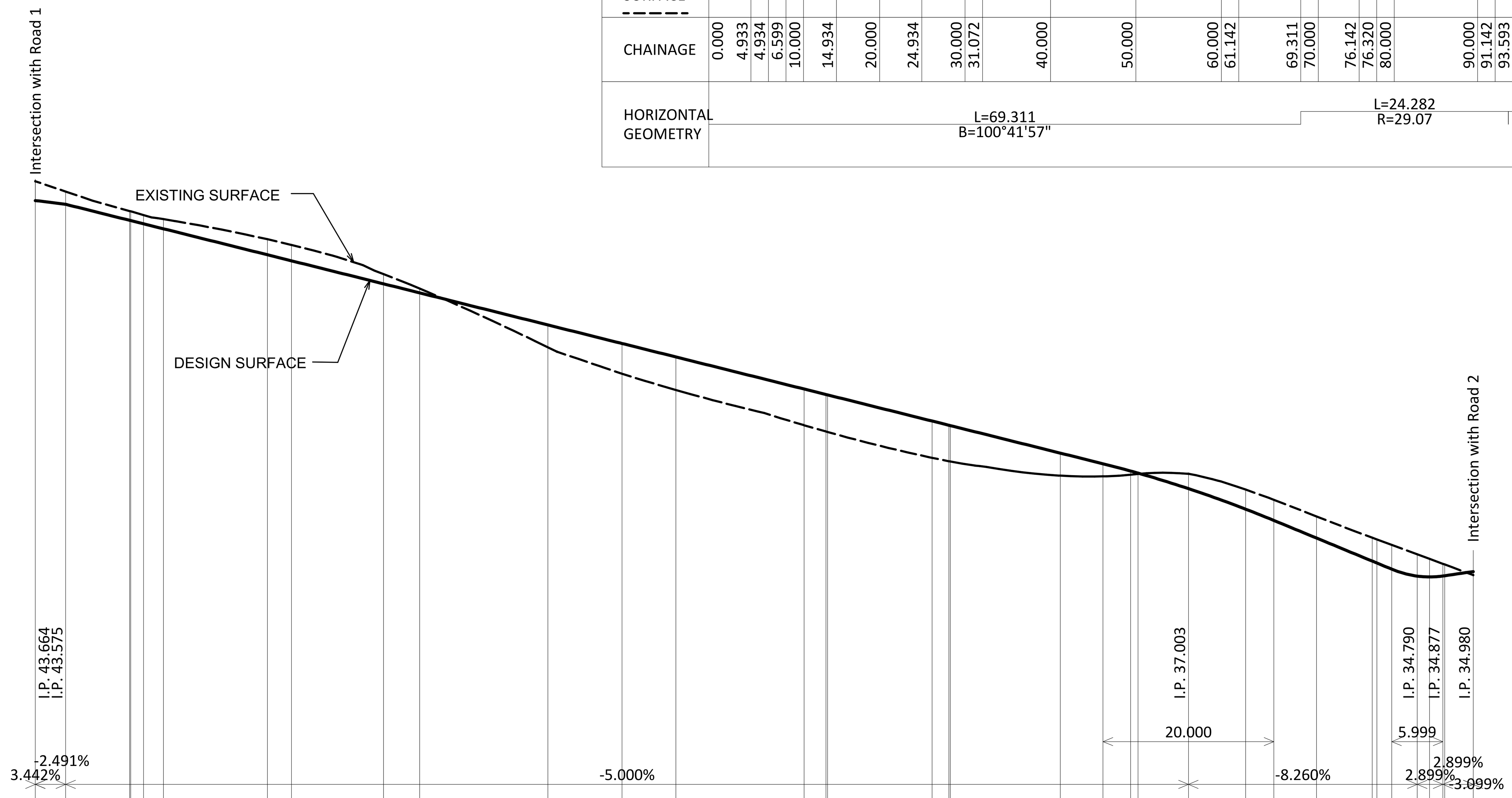
| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




| CHAINAGE | CUT/FILL | DESIGN SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | +0.334 | 37.397 | 37.06 |
| 4.933 | +0.046 | 37.455 | 37.41 |
| 4.934 | +0.046 | 37.455 | 37.41 |
| 6.599 | -0.047 | 37.478 | 37.53 |
| 10.000 | -0.198 | 37.540 | 37.74 |
| 14.934 | -0.368 | 37.668 | 38.04 |
| 20.000 | -0.493 | 37.848 | 38.34 |
| 24.934 | -0.570 | 38.069 | 38.64 |
| 30.000 | -0.598 | 38.319 | 38.92 |
| 31.072 | -0.596 | 38.372 | 38.97 |
| 40.000 | -0.644 | 38.813 | 39.46 |
| 50.000 | -0.654 | 39.306 | 39.96 |
| 60.000 | -0.488 | 39.800 | 40.29 |
| 61.142 | -0.476 | 39.856 | 40.33 |
| 69.311 | -0.457 | 40.151 | 40.61 |
| 70.000 | -0.451 | 40.166 | 40.62 |
| 76.142 | -0.431 | 40.231 | 40.66 |
| 76.320 | -0.431 | 40.231 | 40.66 |
| 80.000 | -0.441 | 40.209 | 40.65 |
| 90.000 | -0.593 | 39.927 | 40.52 |
| 91.142 | -0.613 | 39.874 | 40.49 |
| 93.593 | -0.650 | 39.756 | 40.41 |
| 100.000 | -0.644 | 39.447 | 40.09 |
| 105.924 | -0.572 | 39.161 | 39.73 |
| 110.000 | -0.522 | 38.975 | 39.50 |
| 120.000 | -0.393 | 38.611 | 39.00 |
| 130.000 | -0.186 | 38.375 | 38.56 |
| 130.257 | -0.180 | 38.371 | 38.55 |
| 140.000 | +0.086 | 38.270 | 38.18 |
| 141.334 | +0.127 | 38.265 | 38.14 |
| 143.168 | +0.164 | 38.263 | 38.10 |
| 150.000 | +0.163 | 38.293 | 38.13 |
| 150.721 | +0.152 | 38.300 | 38.15 |
| 154.589 | +0.082 | 38.348 | 38.27 |
| 160.000 | +0.048 | 38.428 | 38.38 |
| 165.667 | +0.066 | 38.511 | 38.44 |
| 170.000 | +0.040 | 38.564 | 38.52 |
| 177.911 | -0.084 | 38.602 | 38.69 |
| 180.000 | -0.074 | 38.599 | 38.67 |
| 190.000 | -0.034 | 38.514 | 38.55 |
| 200.000 | -0.095 | 38.307 | 38.40 |
| 210.000 | -0.226 | 37.980 | 38.21 |
| 214.333 | -0.319 | 37.801 | 38.12 |
| 220.000 | -0.437 | 37.552 | 37.99 |
| 222.563 | -0.472 | 37.439 | 37.91 |
| 230.000 | -0.565 | 37.112 | 37.68 |
| 237.457 | -0.628 | 36.784 | 37.41 |
| 240.000 | -0.651 | 36.672 | 37.32 |
| 250.000 | -0.751 | 36.232 | 36.98 |
| 260.000 | -0.863 | 35.792 | 36.65 |
| 260.153 | -0.864 | 35.786 | 36.65 |
| 267.712 | -0.878 | 35.554 | 36.43 |
| 270.000 | -0.852 | 35.523 | 36.38 |
| 270.153 | -0.850 | 35.522 | 36.37 |
| 272.652 | -0.814 | 35.511 | 36.33 |
| 274.525 | -0.777 | 35.517 | 36.29 |
| 280.000 | -0.612 | 35.606 | 36.22 |
| 280.153 | -0.607 | 35.610 | 36.22 |
| 280.154 | -0.607 | 35.610 | 36.22 |
| 283.714 | -0.505 | 35.704 | 36.21 |

HORIZONTAL GEOMETRY: L=69.311 B=100°41'57" | L=24.282 R=29.07 | L=47.741 R=75.56 | L=9.387 R=11.00 | L=71.842 R=126.96 | L=14.894 R=24.40 | L=46.257 R=43.32

## LONGITUDINAL SECTION ROAD No.5




| CHAINAGE | CUT/FILL | DESIGN SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | -0.451 | 43.664 | 44.11 |
| 3.563 | -0.299 | 43.575 | 43.87 |
| 11.055 | -0.217 | 43.200 | 43.42 |
| 11.180 | -0.216 | 43.194 | 43.41 |
| 12.676 | -0.204 | 43.119 | 43.32 |
| 15.000 | -0.227 | 43.003 | 43.23 |
| 27.180 | -0.365 | 42.394 | 42.76 |
| 30.000 | -0.371 | 42.253 | 42.62 |
| 40.766 | -0.228 | 41.715 | 41.94 |
| 45.000 | -0.102 | 41.503 | 41.60 |
| 60.000 | +0.523 | 40.753 | 40.23 |
| 68.680 | +0.710 | 40.319 | 39.61 |
| 75.000 | +0.773 | 40.003 | 39.23 |
| 90.000 | +0.848 | 39.253 | 38.41 |
| 92.565 | +0.867 | 39.125 | 38.26 |
| 92.746 | +0.868 | 39.116 | 38.25 |
| 105.000 | +0.861 | 38.503 | 37.64 |
| 106.957 | +0.843 | 38.405 | 37.56 |
| 107.118 | +0.841 | 38.397 | 37.56 |
| 120.000 | +0.528 | 37.753 | 37.22 |
| 125.000 | +0.294 | 37.503 | 37.21 |
| 128.242 | +0.085 | 37.332 | 37.25 |
| 129.100 | +0.020 | 37.284 | 37.26 |
| 135.000 | -0.347 | 36.921 | 37.27 |
| 141.704 | -0.458 | 36.440 | 36.90 |
| 145.000 | -0.483 | 36.177 | 36.66 |
| 150.000 | -0.507 | 35.764 | 36.27 |
| 156.505 | -0.547 | 35.227 | 35.77 |
| 157.072 | -0.552 | 35.180 | 35.73 |
| 158.792 | -0.567 | 35.038 | 35.61 |
| 161.791 | -0.510 | 34.874 | 35.38 |
| 163.232 | -0.424 | 34.854 | 35.28 |
| 164.791 | -0.285 | 34.877 | 35.16 |
| 165.000 | -0.264 | 34.883 | 35.15 |
| 168.342 | +0.083 | 34.980 | 34.90 |

HORIZONTAL GEOMETRY: L=11.180 B=170°56'29" | L=16.000 R=88.47 | L=13.586 R=87.65 | L=27.914 R=87.65 | L=23.885 R=82.25 | L=0.181 B=188°06'06" | L=14.211 R=76.68 | L=0.161 B=177°29'01" | L=21.125 R=25.50 | L=0.858 B=130°01'06" | L=12.603 R=11.90 | L=26.639 B=190°42'04"

## LONGITUDINAL SECTION ROAD No.4

**PRELIMINARY**
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.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Liability limited by a scheme approved under Professional Standards Legislation


HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX
PLOT FILE/DWG No.: F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX
DRAWN/CHECKED: JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.4 & No.5

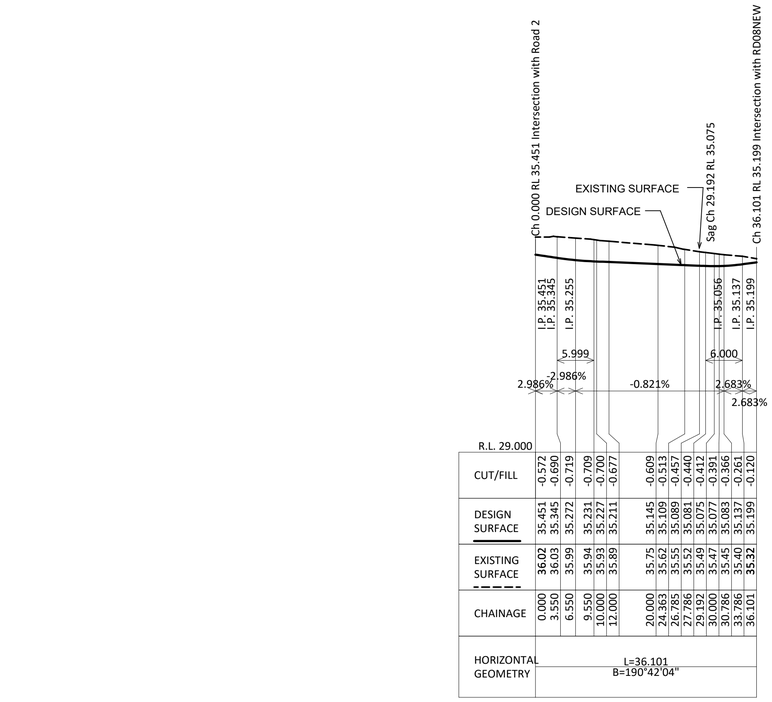

LSW SURVEYORS, PLANNERS & ENGINEERS
LSW SURVEYORS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au


SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1
FIELD SHEETS
Date of survey:

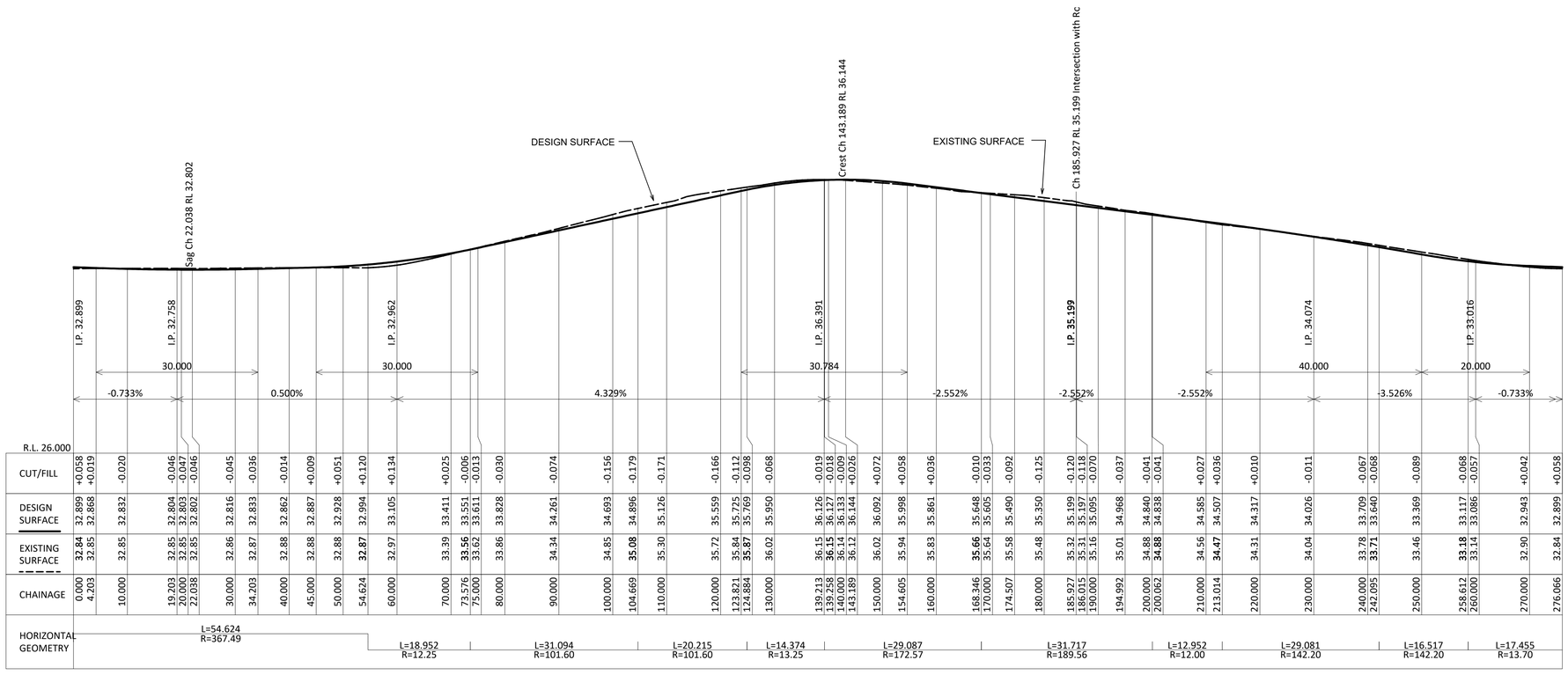
COUNCIL: MID-COAST COUNCIL
DATE: 23/10/20

SHEET 7 OF 19
FILE No.: 7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




LONGITUDINAL SECTION ROAD No.7




LONGITUDINAL SECTION ROAD No.8

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors

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Liability limited by a scheme approved under Professional Standards Legislation

HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
## LONGITUDINAL SECTION ROAD No.7 - No.8

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

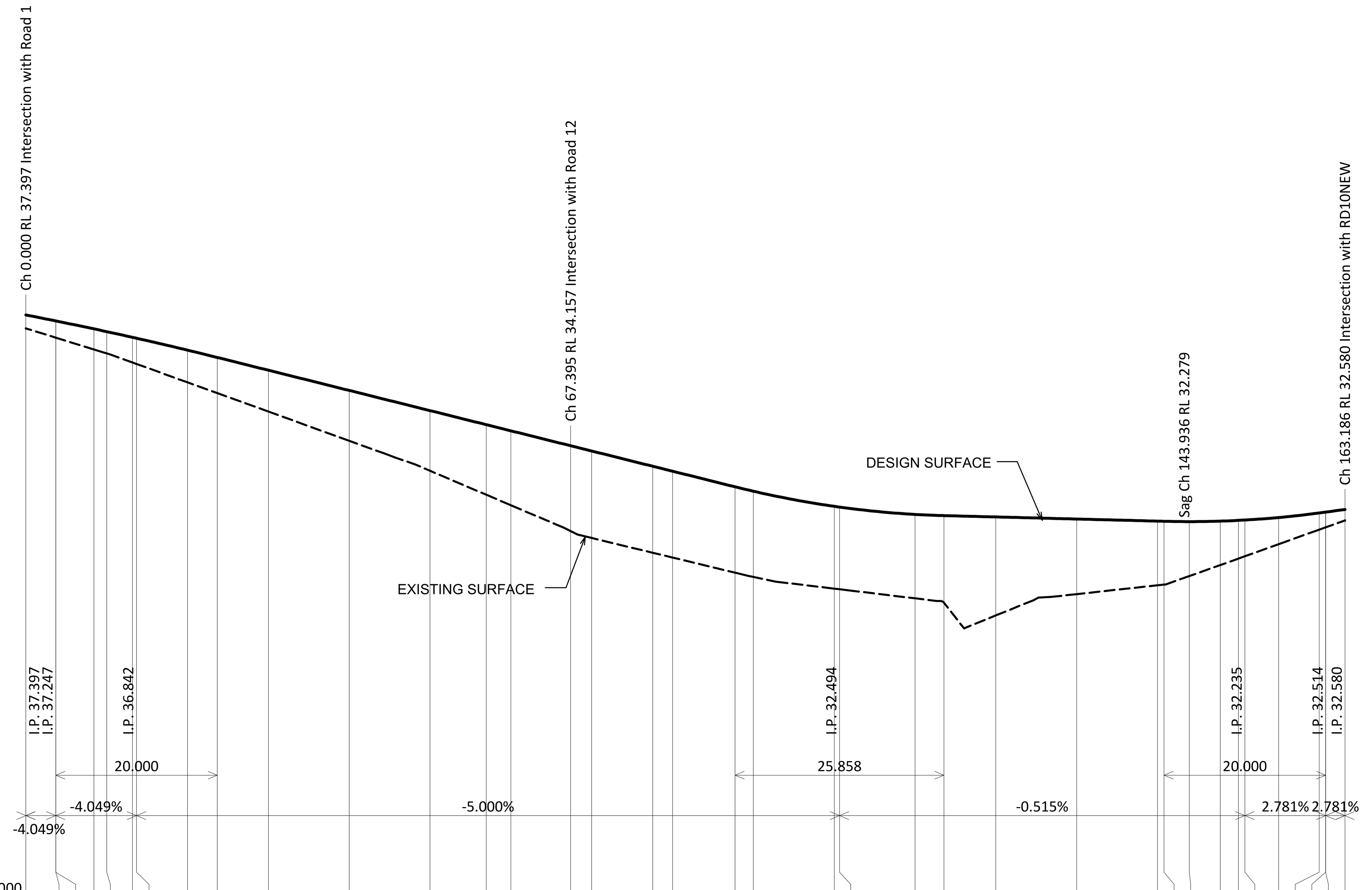
COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 8 OF 19

FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

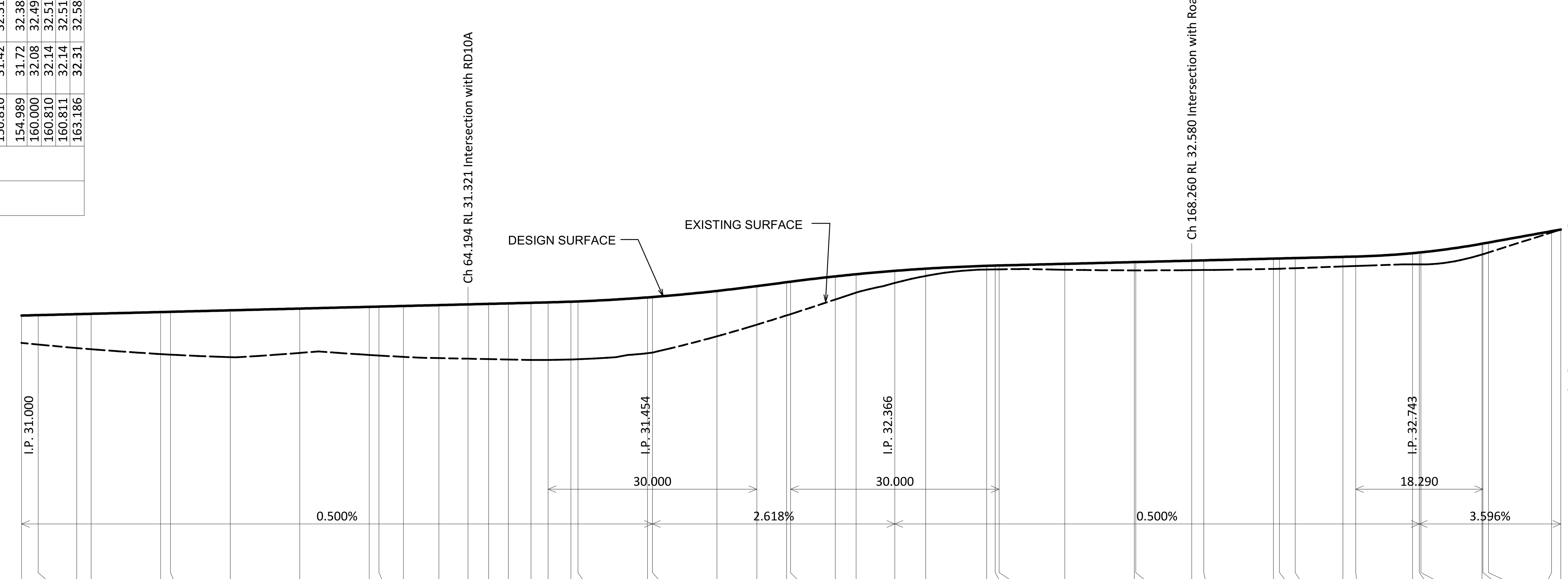



R.L. 23.000

| CHAINAGE | CUT/FILL | DESIGN SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | +0.334 | 37.397 | 37.06 |
| 3.687 | +0.413 | 37.247 | 36.83 |
| 3.688 | +0.413 | 37.247 | 36.83 |
| 8.409 | +0.510 | 37.051 | 36.54 |
| 10.000 | +0.539 | 36.982 | 36.44 |
| 13.175 | +0.623 | 36.842 | 36.22 |
| 13.688 | +0.637 | 36.819 | 36.18 |
| 20.000 | +0.797 | 36.523 | 35.73 |
| 23.688 | +0.883 | 36.342 | 35.46 |
| 30.000 | +1.024 | 36.027 | 35.00 |
| 40.000 | +1.247 | 35.527 | 34.28 |
| 50.000 | +1.490 | 35.027 | 33.54 |
| 56.946 | +1.734 | 34.679 | 32.94 |
| 60.000 | +1.842 | 34.527 | 32.68 |
| 67.395 | +2.115 | 34.157 | 32.04 |
| 70.000 | +2.154 | 34.027 | 31.87 |
| 77.548 | +2.142 | 33.649 | 31.51 |
| 80.000 | +2.138 | 33.527 | 31.39 |
| 87.730 | +2.126 | 33.140 | 31.01 |
| 90.000 | +2.123 | 33.031 | 30.91 |
| 100.000 | +2.037 | 32.657 | 30.62 |
| 100.659 | +2.035 | 32.639 | 30.60 |
| 110.000 | +2.078 | 32.457 | 30.38 |
| 113.588 | +2.157 | 32.427 | 30.27 |
| 120.000 | +2.438 | 32.394 | 29.96 |
| 130.000 | +1.860 | 32.343 | 30.48 |
| 140.000 | +1.588 | 32.291 | 30.70 |
| 140.810 | +1.566 | 32.287 | 30.72 |
| 143.936 | +1.347 | 32.279 | 30.93 |
| 147.760 | +1.088 | 32.291 | 31.20 |
| 150.000 | +0.946 | 32.309 | 31.36 |
| 150.810 | +0.897 | 32.318 | 31.42 |
| 154.989 | +0.660 | 32.380 | 31.72 |
| 160.000 | +0.413 | 32.492 | 32.08 |
| 160.810 | +0.377 | 32.514 | 32.14 |
| 160.811 | +0.377 | 32.514 | 32.14 |
| 163.186 | +0.273 | 32.580 | 32.31 |

HORIZONTAL GEOMETRY: L=163.186 B=305°26'32"

# LONGITUDINAL SECTION ROAD No.9




CONTINUED SHEET 10

R.L. 23.000

| CHAINAGE | CUT/FILL | DESIGN SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | +0.790 | 31.000 | 30.21 |
| 2.381 | +0.846 | 31.012 | 30.17 |
| 7.928 | +0.978 | 31.040 | 30.06 |
| 10.000 | +1.021 | 31.050 | 30.03 |
| 20.000 | +1.210 | 31.100 | 29.89 |
| 21.418 | +1.233 | 31.107 | 29.87 |
| 30.000 | +1.350 | 31.150 | 29.80 |
| 40.000 | +1.277 | 31.200 | 29.92 |
| 50.000 | +1.385 | 31.250 | 29.87 |
| 51.395 | +1.409 | 31.257 | 29.85 |
| 54.902 | +1.465 | 31.275 | 29.81 |
| 60.000 | +1.526 | 31.300 | 29.77 |
| 64.194 | +1.564 | 31.321 | 29.76 |
| 67.166 | +1.591 | 31.336 | 29.74 |
| 70.000 | +1.617 | 31.350 | 29.73 |
| 73.255 | +1.647 | 31.366 | 29.72 |
| 75.716 | +1.659 | 31.379 | 29.72 |
| 78.998 | +1.666 | 31.399 | 29.73 |
| 80.000 | +1.666 | 31.406 | 29.74 |
| 90.000 | +1.606 | 31.522 | 29.92 |
| 90.716 | +1.599 | 31.533 | 29.93 |
| 100.000 | +1.305 | 31.708 | 30.40 |
| 105.716 | +1.110 | 31.846 | 30.74 |
| 110.000 | +0.956 | 31.959 | 31.00 |
| 110.566 | +0.934 | 31.973 | 31.04 |
| 117.003 | +0.665 | 32.127 | 31.46 |
| 120.000 | +0.530 | 32.189 | 31.66 |
| 125.566 | +0.349 | 32.287 | 31.94 |
| 130.000 | +0.209 | 32.349 | 32.14 |
| 138.769 | +0.105 | 32.431 | 32.33 |
| 140.000 | +0.109 | 32.438 | 32.33 |
| 140.566 | +0.111 | 32.441 | 32.33 |
| 150.000 | +0.170 | 32.488 | 32.32 |
| 160.000 | +0.238 | 32.538 | 32.30 |
| 160.204 | +0.239 | 32.539 | 32.30 |
| 168.260 | +0.273 | 32.580 | 32.31 |
| 170.000 | +0.278 | 32.588 | 32.31 |
| 180.000 | +0.295 | 32.638 | 32.34 |
| 180.871 | +0.296 | 32.643 | 32.35 |
| 183.132 | +0.291 | 32.654 | 32.36 |
| 190.000 | +0.275 | 32.688 | 32.41 |
| 191.832 | +0.271 | 32.697 | 32.43 |
| 200.000 | +0.323 | 32.795 | 32.47 |
| 200.977 | +0.343 | 32.814 | 32.47 |
| 201.224 | +0.348 | 32.819 | 32.47 |
| 210.000 | +0.312 | 33.068 | 32.76 |
| 210.122 | +0.308 | 33.072 | 32.76 |
| 210.931 | +0.287 | 33.101 | 32.81 |
| 220.000 | +0.034 | 33.427 | 33.39 |
| 221.327 | -0.003 | 33.475 | 33.48 |

HORIZONTAL GEOMETRY: L=7.928 B=80°32'23" · L=43.467 R=106.79 · L=15.772 B=54°12'11" · L=6.089 B=54°12'38" · L=43.749 R=40.02 · L=21.766 R=18.91 · L=42.102 R=303.95 · L=20.353 B=45°42'18" · L=9.707 R=8.45 · L=10.396 B=339°53'12"

LONGITUDINAL SECTION
RD10NEW Ch 0.000 to Ch 221.327
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

# LONGITUDINAL SECTION ROAD No.10

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

PLOT FILE/DWG No.: F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

DRAWN/CHECKED: JK/PJL

PROJECT
PRELIMINARY ROAD & DRAINAGE DESIGN
OF LOT 343 DP1118417
WINGHAM ROAD & MARIE AVENUE, TAREE
LONGITUDINAL SECTION ROAD No.9 & No.10

LSW SURVEYORS, PLANNERS & ENGINEERS
LSW SURVEYORS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL: MID-COAST COUNCIL

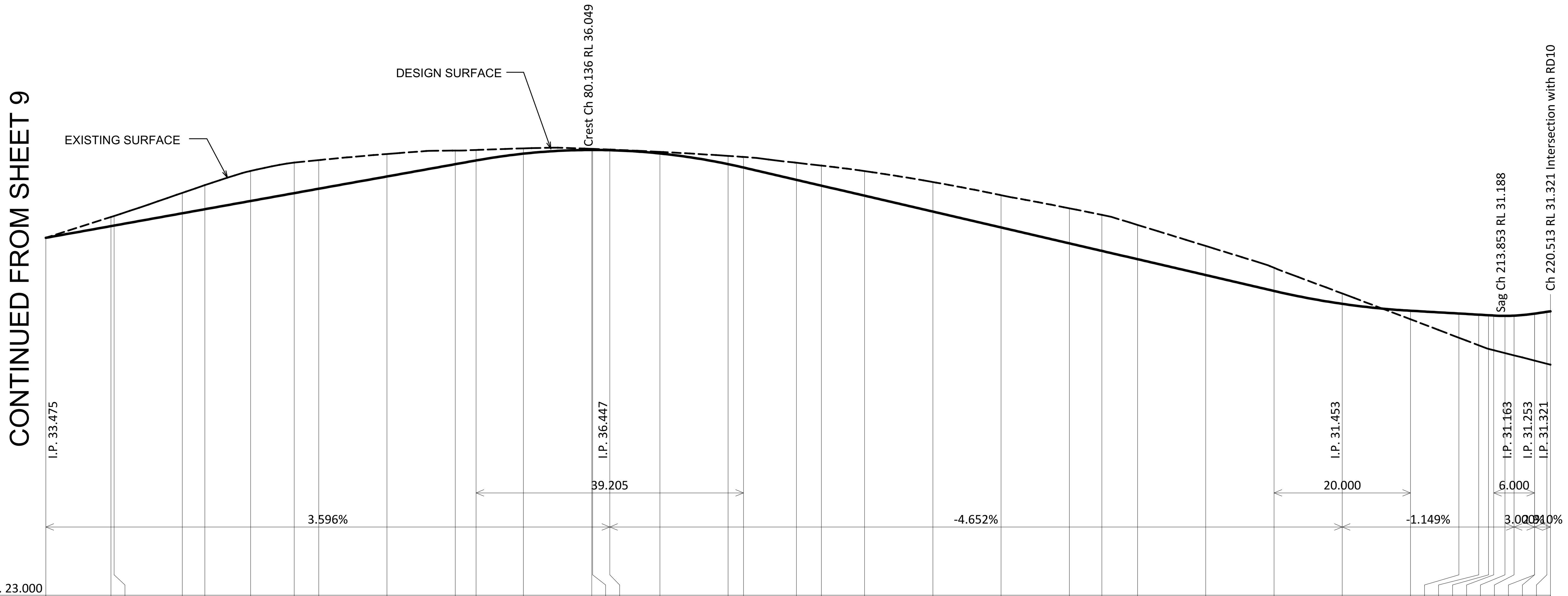
DATE: 23/10/20



FILE No.: 7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

CONTINUED FROM SHEET 9




| CHAINAGE | EXISTING SURFACE | DESIGN SURFACE | CUT/FILL |
|---|---|---|---|
| 0.000 | 33.48 | 33.475 | -0.003 |
| 9.536 | 34.09 | 33.818 | -0.268 |
| 10.000 | 34.12 | 33.835 | -0.281 |
| 20.000 | 34.79 | 34.194 | -0.598 |
| 23.307 | 35.02 | 34.313 | -0.705 |
| 30.000 | 35.44 | 34.554 | -0.881 |
| 36.407 | 35.68 | 34.784 | -0.897 |
| 40.000 | 35.75 | 34.913 | -0.841 |
| 50.000 | 35.93 | 35.273 | -0.659 |
| 60.000 | 36.03 | 35.633 | -0.398 |
| 63.043 | 36.05 | 35.742 | -0.308 |
| 70.000 | 36.10 | 35.941 | -0.155 |
| 80.000 | 36.08 | 36.049 | -0.034 |
| 80.136 | 36.08 | 36.049 | -0.033 |
| 82.645 | 36.06 | 36.043 | -0.019 |
| 90.000 | 35.99 | 35.947 | -0.048 |
| 100.000 | 35.88 | 35.634 | -0.242 |
| 102.248 | 35.85 | 35.535 | -0.310 |
| 110.000 | 35.67 | 35.174 | -0.500 |
| 113.664 | 35.59 | 35.004 | -0.588 |
| 120.000 | 35.43 | 34.709 | -0.721 |
| 130.000 | 35.11 | 34.244 | -0.866 |
| 140.000 | 34.73 | 33.779 | -0.947 |
| 150.000 | 34.34 | 33.314 | -1.027 |
| 154.765 | 34.15 | 33.092 | -1.054 |
| 160.000 | 33.85 | 32.848 | -1.004 |
| 170.000 | 33.24 | 32.383 | -0.853 |
| 180.000 | 32.60 | 31.918 | -0.679 |
| 190.000 | 31.84 | 31.540 | -0.304 |
| 200.000 | 31.09 | 31.338 | +0.250 |
| 207.094 | 30.55 | 31.256 | +0.709 |
| 210.000 | 30.32 | 31.223 | +0.898 |
| 211.446 | 30.22 | 31.206 | +0.985 |
| 212.192 | 30.18 | 31.198 | +1.015 |
| 213.853 | 30.10 | 31.188 | +1.090 |
| 215.192 | 30.03 | 31.195 | +1.165 |
| 218.192 | 29.88 | 31.253 | +1.377 |
| 218.193 | 29.88 | 31.253 | +1.377 |
| 220.000 | 29.78 | 31.306 | +1.523 |
| 220.513 | 29.76 | 31.321 | +1.564 |

HORIZONTAL GEOMETRY: L=9.536 B=339°53'12" | L=13.771 R=21.76 | L=13.099 R=14.13 | L=77.258 R=191.52 | L=41.101 R=43.55 | L=65.748 R=214.69

LONGITUDINAL SECTION ROAD No.10A

LONGITUDINAL SECTION
RD10A NEW Ch 0.000 to Ch 220.513
SCALES: HORIZONTAL 1:500 VERTICAL 1:100

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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Liability limited by a scheme approved under Professional Standards Legislation

HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED: JK/PJL

PROJECT
PRELIMINARY ROAD & DRAINAGE DESIGN
OF LOT 343 DP1118417
WINGHAM ROAD & MARIE AVENUE, TAREE
LONGITUDINAL SECTION ROAD No.10

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

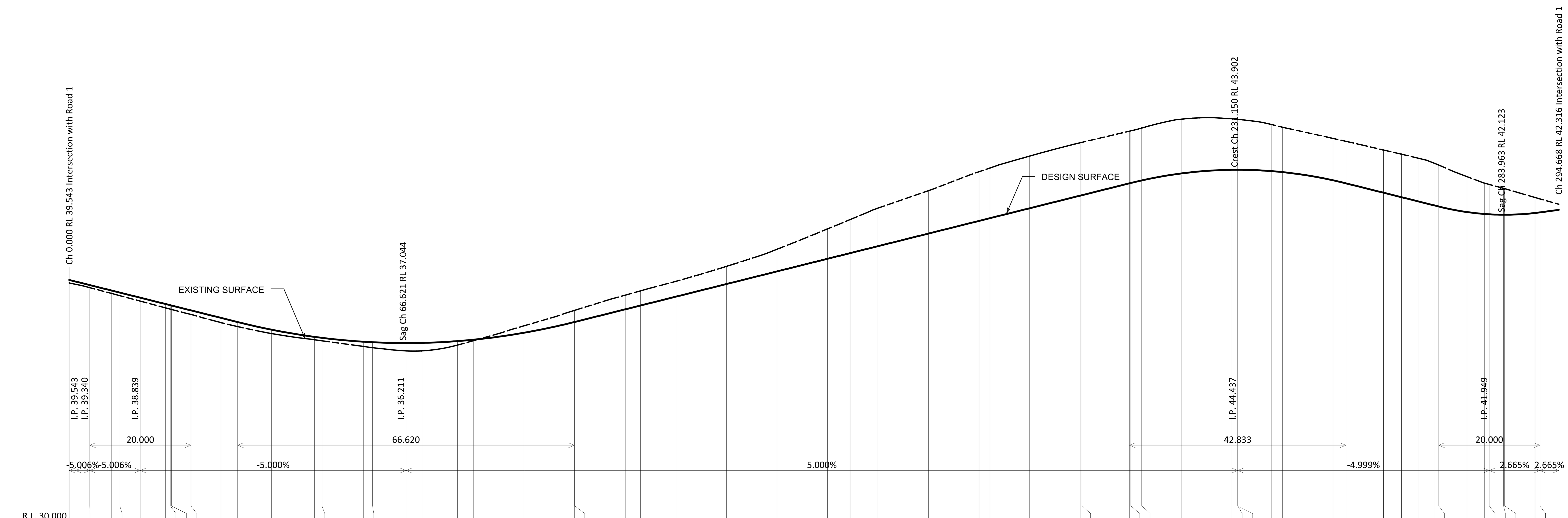
COUNCIL: MID-COAST COUNCIL

DATE: 23/10/20



FILE No.: 7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




| CHAINAGE | DESIGN SURFACE | EXISTING SURFACE | CUT/FILL |
|---|---|---|---|
| 0.000 | 39.543 | 39.42 | +0.121 |
| 4.053 | 39.340 | 39.24 | +0.102 |
| 8.390 | 39.123 | 39.01 | +0.116 |
| 10.000 | 39.042 | 38.92 | +0.121 |
| 14.054 | 38.840 | 38.70 | +0.136 |
| 19.076 | 38.588 | 38.44 | +0.152 |
| 20.000 | 38.542 | 38.39 | +0.155 |
| 20.211 | 38.532 | 38.38 | +0.157 |
| 24.054 | 38.339 | 38.18 | +0.160 |
| 30.000 | 38.042 | 37.86 | +0.186 |
| 33.310 | 37.877 | 37.70 | +0.181 |
| 40.000 | 37.576 | 37.42 | +0.154 |
| 48.500 | 37.290 | 37.17 | +0.115 |
| 50.000 | 37.251 | 37.13 | +0.116 |
| 58.183 | 37.097 | 36.91 | +0.186 |
| 60.000 | 37.077 | 36.86 | +0.215 |
| 66.620 | 37.044 | 36.73 | +0.311 |
| 70.000 | 37.052 | 36.74 | +0.314 |
| 76.810 | 37.122 | 36.96 | +0.158 |
| 80.000 | 37.178 | 37.14 | +0.036 |
| 90.000 | 37.454 | 37.73 | -0.275 |
| 99.930 | 37.877 | 38.34 | -0.461 |
| 100.000 | 37.880 | 38.34 | -0.461 |
| 110.000 | 38.380 | 38.94 | -0.562 |
| 113.010 | 38.530 | 39.11 | -0.581 |
| 120.000 | 38.880 | 39.49 | -0.609 |
| 130.000 | 39.380 | 40.08 | -0.698 |
| 140.000 | 39.880 | 40.76 | -0.875 |
| 150.000 | 40.380 | 41.56 | -1.181 |
| 154.488 | 40.604 | 41.93 | -1.328 |
| 160.000 | 40.880 | 42.39 | -1.505 |
| 170.000 | 41.380 | 43.08 | -1.698 |
| 180.000 | 41.880 | 43.83 | -1.946 |
| 182.167 | 41.988 | 43.98 | -1.988 |
| 190.000 | 42.380 | 44.45 | -2.065 |
| 200.000 | 42.880 | 44.97 | -2.093 |
| 200.357 | 42.898 | 44.99 | -2.092 |
| 209.731 | 43.367 | 45.43 | -2.063 |
| 210.000 | 43.380 | 45.44 | -2.063 |
| 212.157 | 43.481 | 45.56 | -2.074 |
| 220.000 | 43.757 | 45.91 | -2.149 |
| 230.000 | 43.900 | 45.92 | -2.021 |
| 231.148 | 43.902 | 45.90 | -1.999 |
| 231.150 | 43.902 | 45.90 | -1.999 |
| 237.876 | 43.849 | 45.69 | -1.843 |
| 240.000 | 43.811 | 45.59 | -1.778 |
| 250.000 | 43.487 | 45.14 | -1.658 |
| 252.564 | 43.367 | 45.03 | -1.662 |
| 260.000 | 42.995 | 44.69 | -1.691 |
| 263.544 | 42.818 | 44.52 | -1.701 |
| 266.808 | 42.655 | 44.36 | -1.709 |
| 270.000 | 42.495 | 44.16 | -1.668 |
| 270.918 | 42.449 | 44.09 | -1.642 |
| 276.499 | 42.230 | 43.63 | -1.402 |
| 280.000 | 42.153 | 43.37 | -1.219 |
| 280.918 | 42.141 | 43.32 | -1.181 |
| 283.745 | 42.123 | 43.17 | -1.045 |
| 283.963 | 42.123 | 43.16 | -1.033 |
| 290.000 | 42.193 | 42.80 | -0.612 |
| 290.918 | 42.216 | 42.75 | -0.536 |
| 294.668 | 42.316 | 42.54 | -0.221 |

HORIZONTAL GEOMETRY:
L=19.076 B=312°22'45"
L=29.424 R=41.70
L=9.683 B=352°54'44"
L=8.437 R=25.71
L=10.190 R=12.65
L=36.200 B=62°40'28"
L=41.478 R=65.84
L=27.680 B=98°56'42"
L=18.189 R=36.32
L=11.800 B=130°14'16"
L=25.719 R=25.01
L=25.669 R=172.85
L=3.263 B=198°04'11"
L=27.861 R=172.85

## LONGITUDINAL SECTION ROAD No.11

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX
PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX
DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.11

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

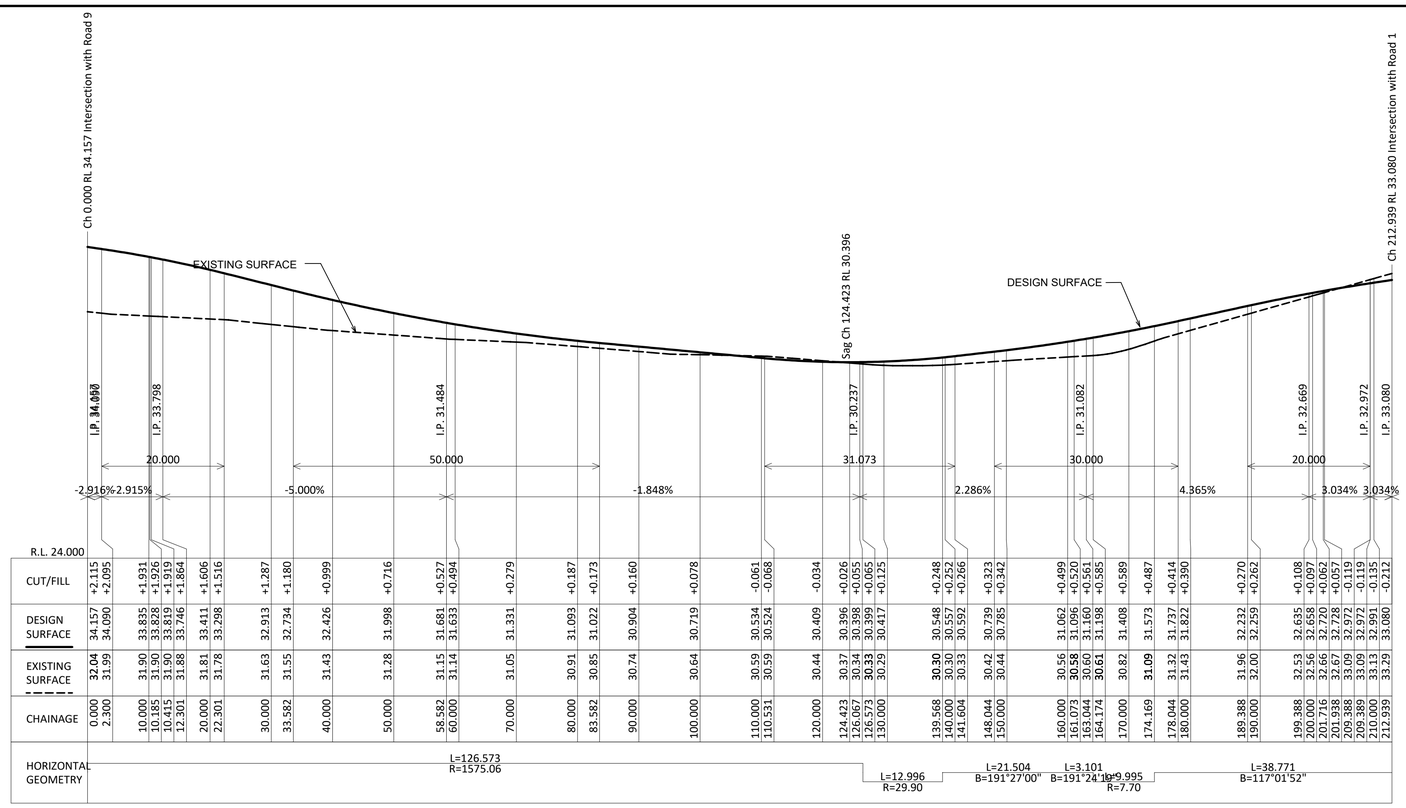
SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1
FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL
DATE:
23/10/20



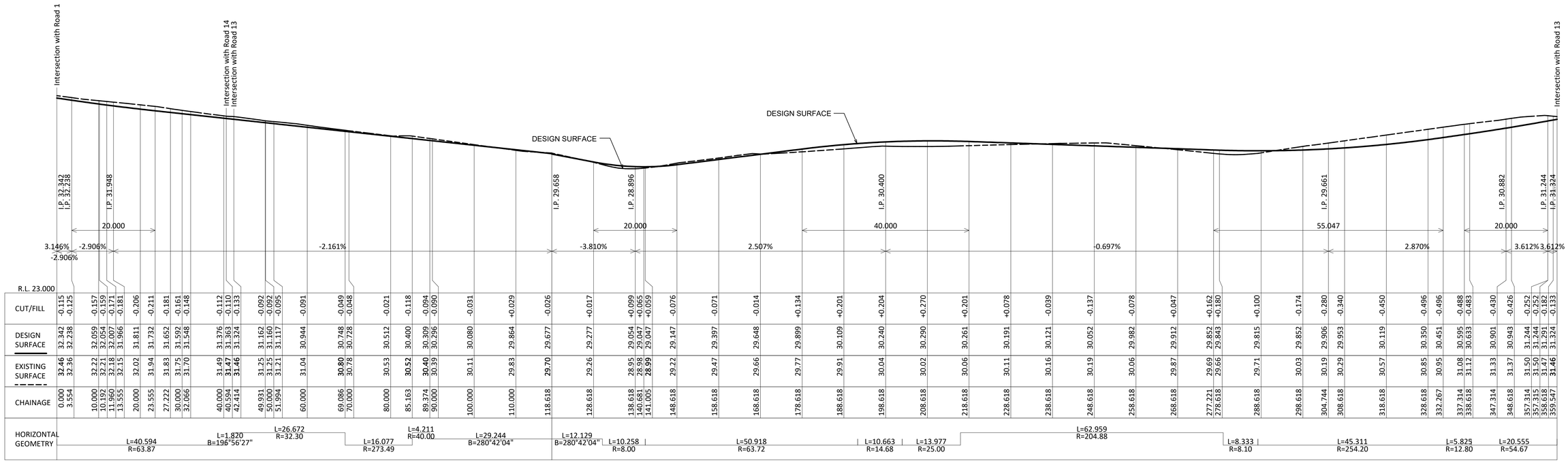
FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




LONGITUDINAL SECTION ROAD No.12

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN




LONGITUDINAL SECTION ROAD No.13

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.12 & No.13

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2426
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

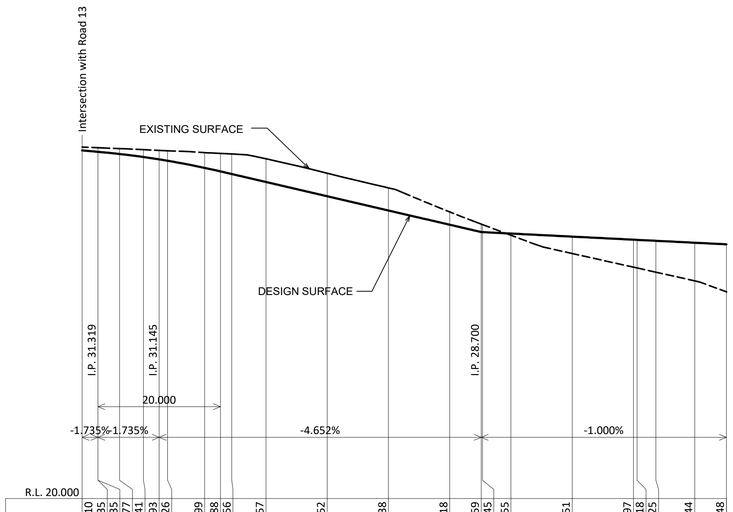
COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 12 OF 19

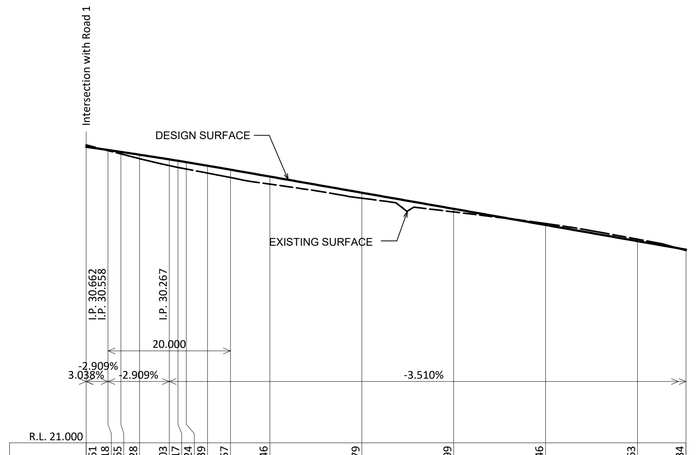
FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |




| | R.L. 20.000 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.110 | -0.135 | -0.135 | -0.177 | -0.241 | -0.293 | -0.326 | -0.499 | -0.588 | -0.656 | -0.757 | -0.752 | -0.738 | -0.418 | -0.259 | -0.245 | +0.055 | +0.551 | | +0.897 | +0.918 | +1.025 | +1.244 | +1.548 | |
| DESIGN SURFACE | 31.363 | 31.319 | 31.319 | 31.248 | 31.150 | 31.073 | 31.028 | 30.795 | 30.680 | 30.594 | 30.335 | 29.869 | 29.404 | 28.939 | 28.700 | 28.698 | 28.651 | 28.551 | | 28.451 | 28.446 | 28.415 | 28.351 | 28.300 | |
| EXISTING SURFACE | **31.47** | 31.45 | 31.45 | 31.43 | 31.39 | 31.37 | 31.35 | 31.29 | 31.27 | **31.25** | 31.09 | 30.62 | 30.14 | 29.36 | 28.96 | **28.94** | 28.60 | 28.00 | | 27.55 | 27.53 | 27.39 | 27.11 | **26.75** | |
| CHAINAGE | 0.000 | 2.567 | 2.568 | 6.114 | 10.000 | 12.568 | 13.934 | 20.000 | 22.568 | 24.428 | 30.000 | 40.000 | 50.000 | 60.000 | 65.139 | 65.353 | 70.000 | 80.000 | | 90.000 | 90.579 | 93.665 | 100.000 | 105.165 | |
| HORIZONTAL GEOMETRY | L=24.428 R=155.85 | | | | | | | L=40.924 R=40.00 | | | | | | | | | | L=25.226 B=280°42'04" | | | | L=14.585 B=280°42'04" | | | |

LONGITUDINAL SECTION ROAD No.14




| | R.L. 21.000 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CUT/FILL | -0.061 | -0.018 | +0.065 | +0.128 | +0.203 | +0.227 | +0.224 | +0.239 | +0.257 | +0.246 | +0.179 | +0.099 | -0.046 | -0.063 | +0.034 | | | | | | | | | | |
| DESIGN SURFACE | 30.662 | 30.562 | 30.496 | 30.404 | 30.252 | 30.202 | 30.162 | 30.045 | 29.916 | 29.690 | 29.164 | 28.637 | 28.111 | 27.584 | 27.306 | | | | | | | | | | |
| EXISTING SURFACE | **30.72** | 30.54 | **30.43** | 30.28 | 30.05 | 29.99 | 29.94 | 29.81 | 29.66 | 29.44 | 28.99 | 28.54 | 28.16 | 27.65 | **27.27** | | | | | | | | | | |
| CHAINAGE | 0.000 | 3.562 | 5.671 | 8.729 | 13.563 | 15.000 | 16.343 | 19.822 | 23.563 | 30.000 | 45.000 | 60.000 | 75.000 | 90.000 | 97.928 | | | | | | | | | | |
| HORIZONTAL GEOMETRY | L=5.671 R=196°51'44" | | | | L=10.672 R=15.00 | | | | | L=81.586 R=91.52 | | | | | | | | | | | | | | | |

LONGITUDINAL SECTION ROAD No.16

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE LONGITUDINAL SECTION ROAD No.14 & No.16

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:500
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

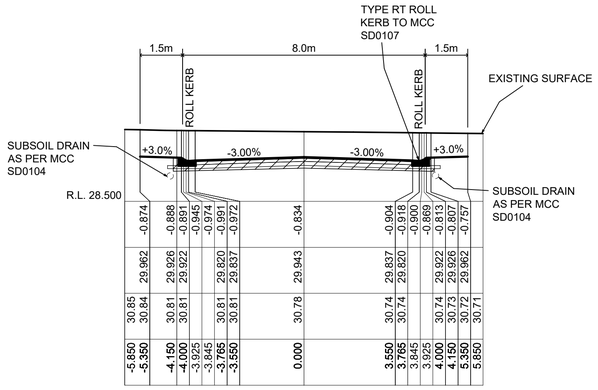
COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 13 OF 19

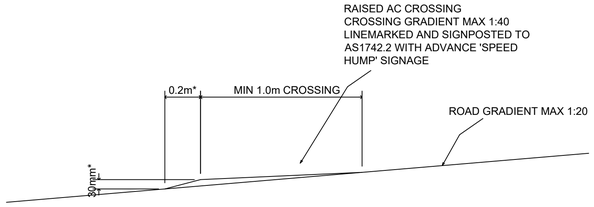
FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |



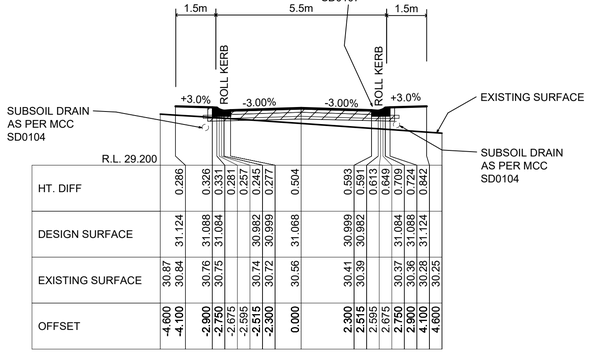

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -5.850 | -5.350 | -4.150 | -4.000 | -3.925 | -3.845 | -3.765 | -3.550 | 0.000 | 3.550 | 3.765 | 3.845 | 3.925 | 4.000 | 4.150 | 5.350 | 5.850 | | | | | | | | |
| 30.85 | 30.84 | 30.81 | 30.81 | | 30.81 | 30.81 | 30.78 | | 30.74 | 30.74 | | | 30.74 | 30.73 | 30.72 | 30.71 | | | | | | | | |
| 29.962 | | 29.926 | 29.922 | | 29.920 | 29.837 | 29.943 | | 29.837 | 29.920 | | | 29.922 | 29.926 | 29.962 | | | | | | | | | |
| -0.874 | | -0.888 | -0.891 | -0.945 | -0.974 | -0.991 | -0.972 | -0.834 | -0.934 | -0.918 | -0.900 | -0.869 | -0.813 | -0.807 | -0.757 | | | | | | | | | |

TYPICAL 8m WIDE ROAD CROSS SECTION




TYPICAL RAISED CROSSING

* WHERE KERB RAMPS ARE AVAILABLE. WHERE KERB RAMPS ARE NOT AVAILABLE REFER TO ARCHITECTURAL TYPICALS




| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HT. DIFF | 0.286 | | 0.326 | 0.341 | 0.281 | 0.257 | 0.245 | 0.277 | 0.504 | 0.593 | 0.591 | 0.613 | 0.649 | 0.709 | 0.724 | 0.842 | | | | | | | | |
| DESIGN SURFACE | 31.124 | | 31.088 | 31.084 | | | 30.982 | 30.999 | 31.068 | 30.999 | 30.982 | | | 31.084 | 31.088 | 31.124 | | | | | | | | |
| EXISTING SURFACE | 30.87 | 30.84 | 30.76 | 30.75 | | 30.74 | 30.72 | 30.56 | | 30.41 | 30.39 | | | 30.37 | 30.36 | 30.28 | 30.25 | | | | | | | |
| OFFSET | -4.600 | -4.100 | -2.900 | -2.750 | -2.595 | -2.515 | -2.300 | 0.000 | | 2.300 | 2.515 | 2.595 | 2.675 | 2.750 | 2.900 | 4.100 | 4.600 | | | | | | | |

TYPICAL 5.5m WIDE ROAD CROSS SECTION

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
## TYPICAL ROAD CROSS SECTIONS

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST, FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:100
VERTICAL: 1:100
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 14 OF 19

FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

MGA

## LEGEND

| CODE | DESCRIPTION | LINETYPE |
|---|---|---|
| ELECT | UNDERGROUND ELECTRICITY | UG |
| FCE | FENCE | |
| HYD /SV | HYDRANT / STOPVALVE | |
| PIT | EXISTING STORMWATER | |
| PP /ELP | OVERHEAD ELECTRICITY | O/H |
| RISNG | RISING MAIN | RM |
| SMH | SEWER / MANHOLE | S |
| STN /SSM | SURVEY CONTROL | |
| SW /PIT | DESIGN STORMWATER | |
| TEL | TELSTRA | T |
| TRL | TREELINE | |
| TR | TREE | |
| WATER | WATER SUPPLY | W |

30.0 DENOTES EXISTING NATURAL SURFACE CONTOURS

30.0 DENOTES DESIGN FINISHED SURFACE CONTOURS

W DENOTES WATERMAIN

S DENOTES SEWERMAIN

DENOTES STORMWATER PIPE

E/T DENOTES ELECTRICITY & NBN

ROAD No.11 (1.5-5.5-1.5)

ROAD No.1 (1.5-8-1.5)

ROAD No.5

ROAD No.2 (1.5-8-1.5)

ROAD No.13

ROAD No.12

ROAD No.7

ROAD No.4

ROAD No.3

100Ø PVCm PN12

150Ø PVCm PN12

EXISTING 1000 WATERMAIN

EXISTING 1500 PVCm PN12

DECOMMISSIONED 450 DIA WATER MAIN

CONNECT INTO EXISTING WATER MAIN.

EXISTING DECOMMISIONED 450 DIA WATER MAIN.

PROPOSED SEWER AQUEDUCT

PROPOSED SEWER TO CONNECT TO EXISTING MANHOLE. EXISTING MANHOLE MAY REQUIRE UPGRADING.

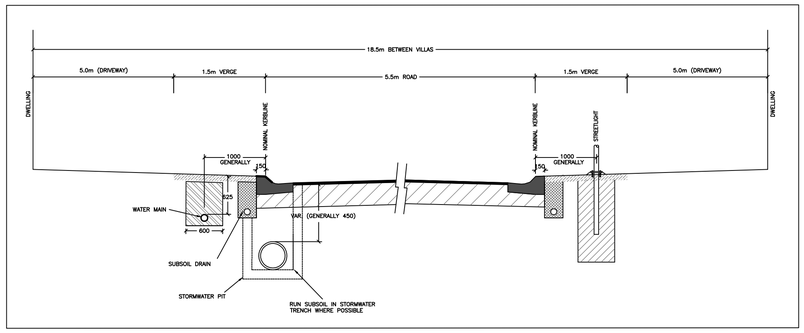
CONSTRUCT NEW MANHOLE OVER EXISTING LINE TO CONNECT DEVELOPMENT.

CONNECT INTO EXISTING WATER MAIN.

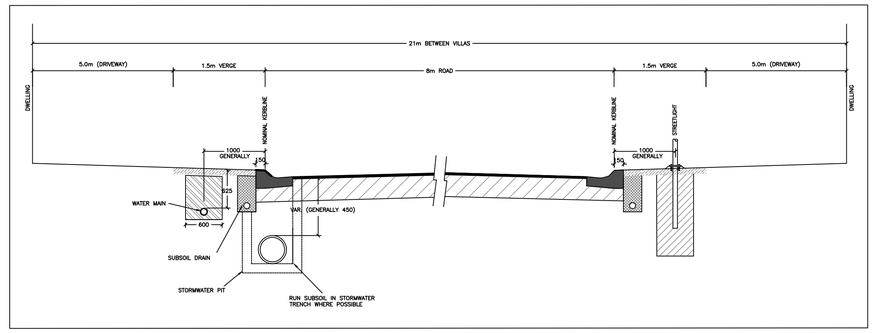
WINGHAM ROAD 30.175 WIDE

AVENUE

MARIE




SECTION B-B DETAIL
(Not to Scale)




SECTION A-A DETAIL
(Not to Scale)

PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

0 5 10 20 30 40 50
SCALE 1:1250

BEFORE YOU DIG www.byda.com.au

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE SERVICING PLAN

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:1250
VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 15 OF 19

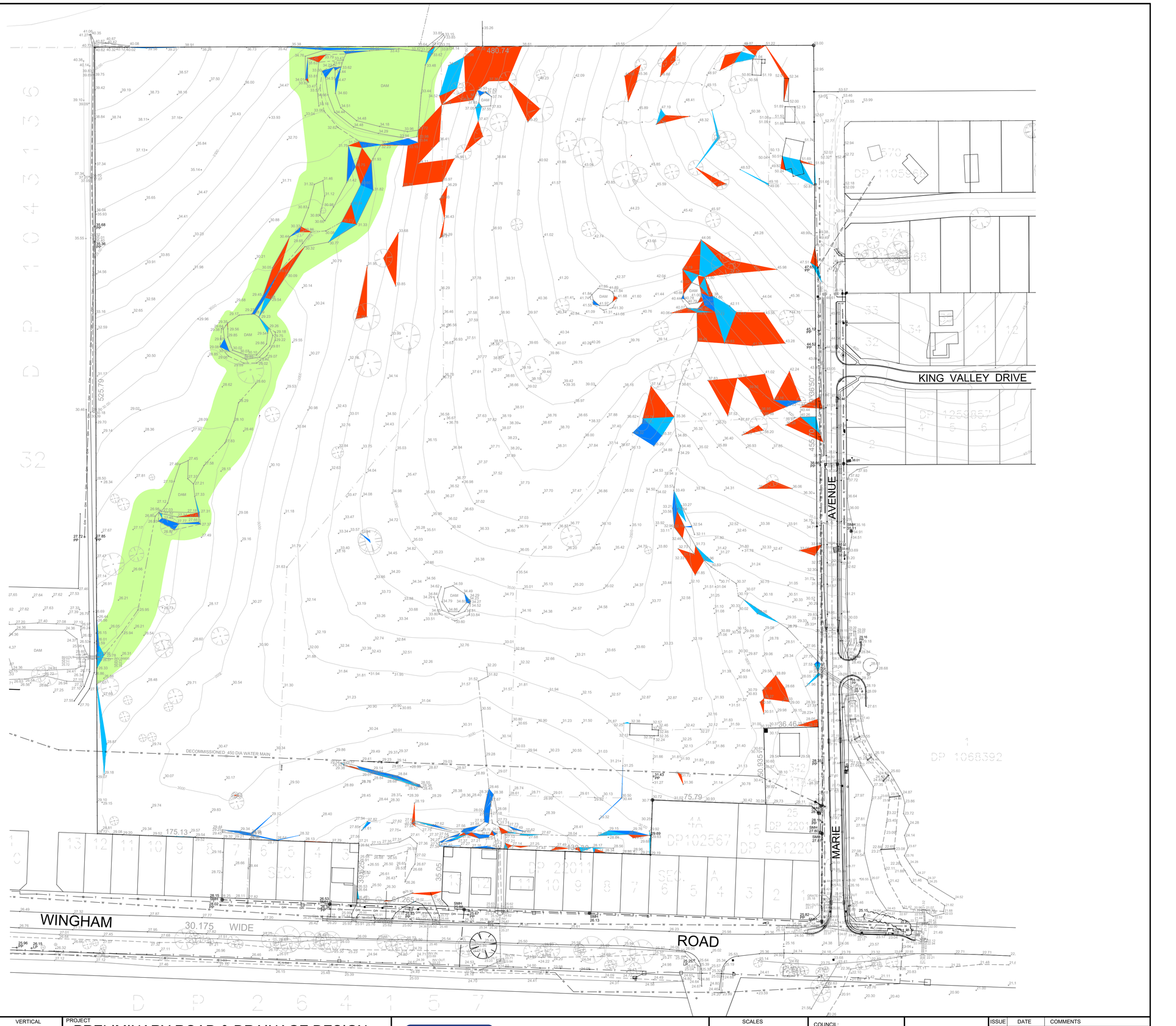
FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

MGA

| Slope Table for NATURAL SURFACE | |
|---|---|
| Slopes % | Colour |
| 10.00 to 12.00 | |
| 12.00 to 15.00 | |
| 15.00 to 20.00 | |

TOTAL SITE AREA = 25.41 Ha
TOTAL SITE AREA OVER 10% GRADE = 0.91 Ha
PERCENTAGE OF LAND 10% OR GREATER = 3.6%




PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
## EXISTING SLOPE GRADING PLAN

LSW SURVEYORS, PLANNERS & ENGINEERS
**LSW SURVEYORS**
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:1250
VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

SHEET 16 OF 19

FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
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| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

MGA

| Slope Table (%) | |
|---|---|
| Slopes | Colour |
| 0.00 to 3.33 | |
| 3.33 to 5.00 | |
| 5.00 to 6.00 | |
| 6.00 to 8.00 | |
| 8.00 to 10.00 | |
| >10.00 | |

PRELIMINARY

SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE PROPOSED SLOPE GRADING PLAN

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:1250
VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
Date of survey:

COUNCIL:
MID-COAST COUNCIL

DATE:
23/10/20

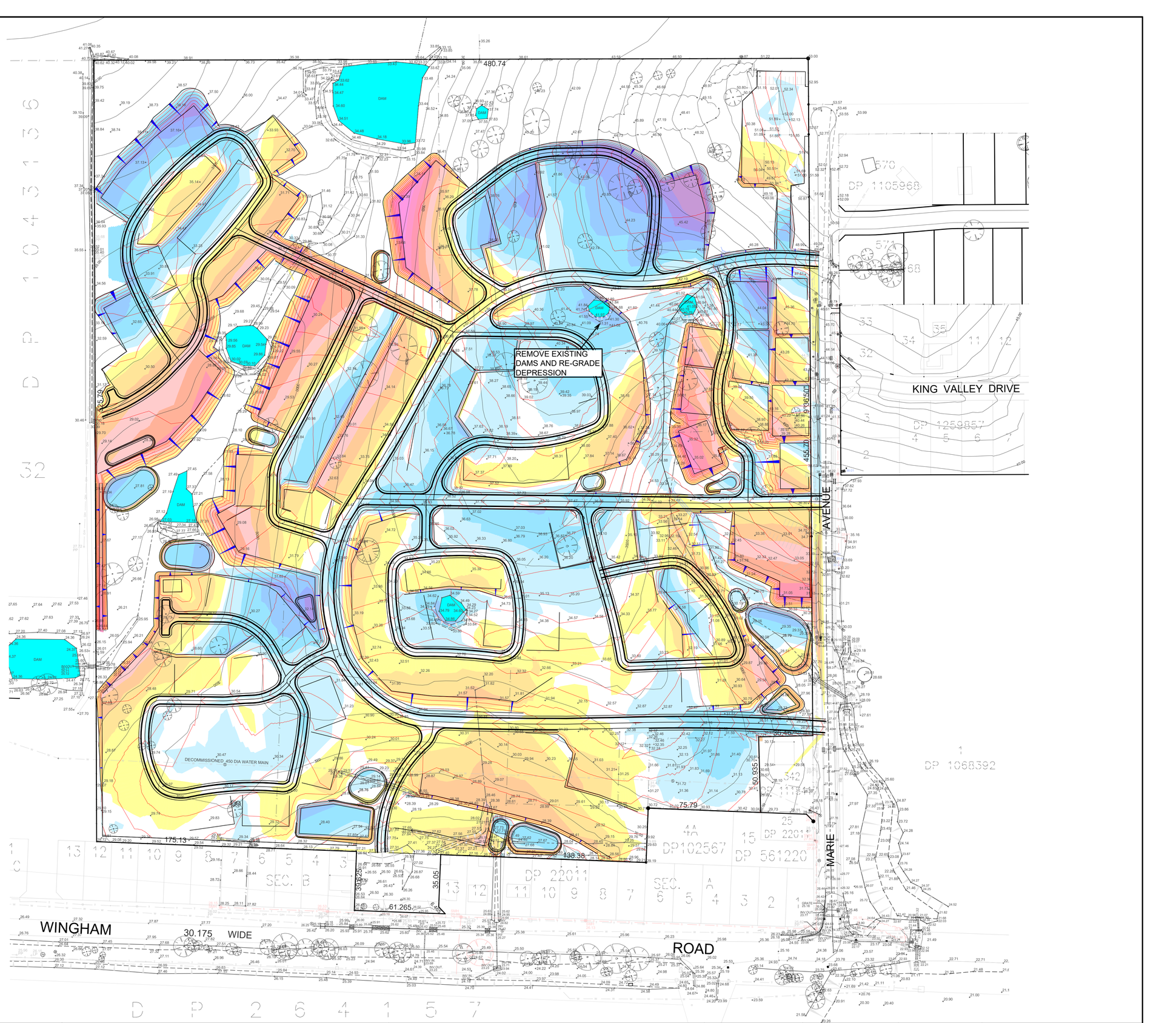
SHEET 17 OF 19

FILE No.:
7564/SENIORS

| ISSUE | DATE | COMMENTS |
|---|---|---|
| B | 10/12/20 | SECOND ISSUE |
| C | 27/05/22 | THIRD ISSUE |
| D | 28/02/23 | FOURTH ISSUE |
| E | 28/04/23 | FIFTH ISSUE |
| F | 29/02/24 | SIXTH ISSUE |
| G | 09/0824 | SEVENTH ISSUE |

MGA

| Height table for CUTFILL (metres) | Colour |
|---|---|
| -3.00 to -2.50 | |
| -2.50 to -2.00 | |
| -2.00 to -1.50 | |
| -1.50 to -1.00 | |
| -1.00 to -0.50 | |
| -0.50 to -0.10 | |
| -0.10 to 0.00 | |
| 0.00 to 0.10 | |
| 0.10 to 0.50 | |
| 0.50 to 1.00 | |
| 1.00 to 1.50 | |
| 1.50 to 2.00 | |
| 2.00 to 2.50 | |
| 2.50 to 3.00 | |
| 3.00 to 3.50 | |
| 3.50 to 4.00 | |




PRELIMINARY
SUBJECT TO APPROVAL, FINAL SURVEY AND DESIGN

NOTE: The contractor shall check and verify all works on site (including works by others) before commencing any works. All discrepancies are to be reported to the Project Manager or LSW Surveyors prior to commencing work. Do not scale dimensions from the plan. All dimensions to be confirmed by dimensions from the plan. All dimensions to be confirmed by LSW Surveyors.

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HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE
## CONCEPT CUT AND FILL PLAN

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
HORIZONTAL: 1:1250
VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
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MID-COAST COUNCIL

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23/10/20

SHEET 18 OF 19

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| G | 09/0824 | SEVENTH ISSUE |

PRELIMINARY

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Liability limited by a scheme approved under Professional Standards Legislation

HORIZONTAL
CO-ORDINATE SYSTEM: MGA LOCAL
MARKS ADOPTED: SSM
EAST: XXX NORTH: XXX

PLOT FILE/DWG No.:
F:\D7564\7564_SENIORS PRELIM R&D SET.DWG

VERTICAL
DATUM: AHD
BENCHMARK: SSM
R.L.: XXX

DRAWN/CHECKED:
JK/PJL

PROJECT
# PRELIMINARY ROAD & DRAINAGE DESIGN OF LOT 343 DP1118417 WINGHAM ROAD & MARIE AVENUE, TAREE PROPOSED TURN PATHS

LSW SURVEYORS
SURVEYORS, PLANNERS & ENGINEERS
1st FLOOR, 3 WHARF ST. FORSTER 2428
PO BOX 510 FORSTER NSW 2428
PH: (02) 6554 7988
EMAIL: consult@lswsurveyors.com.au
WEBSITE: www.lswsurveyors.com.au

SCALES
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VERTICAL: N/A
SHEET SIZE: A1

FIELD SHEETS
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SHEET 19 OF 19

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