NEWBRIDGE SOUTH ESTATE
STAGE 9

GENERAL NOTES

AUTHORITY WORKS INSPECTIONS

1. THE CONTRACT SUPERINTENDENT OR THEIR REPRESENTATIVE SHALL BE NOTIFIED 24 HOURS BEFORE ANY INSPECTION IS DUE FOR ALL WORKS INSPECTIONS BY COUNCIL AND 5 WORKING DAYS FOR WATER AUTHORITY.

WORKS VARIATIONS

2. THE CONTRACTOR SHALL NOT UNDERTAKE ANY WORK WHICH MAY LEAD TO A CLAIMABLE VARIATION(S) WITHOUT PRIOR APPROVAL OF THE CONTRACT SUPERINTENDENT.

CONTRACTOR RESPONSIBILITIES

3. COUNCIL IS TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRECOMMENCEMENT MEETING BEING HELD BETWEEN COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS.
4. ALL WORKS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH GROWTH AREA'S AUTHORITY (GAA) STANDARD DRAWINGS AND SPECIFICATIONS, THE APPROVED SET OF CONSTRUCTION PLANS, AND TO THE SATISFACTION OF THE SUPERINTENDENT. IN THE EVENT OF ANY DISCREPANCY THE CONTRACTOR IS TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
5. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
6. THE CONTRACTOR IS REQUIRED TO CONFINE ALL CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO ALLOTMENTS MUST BE REINSTATED.
7. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED FROM THE SITE AND THE SITE SHALL BE CLEANED TO THE SATISFACTION OF THE SUPERINTENDENT.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNS, LIGHTING AND BARRICADES TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS.

SURVEYING AND SETTING OUT

9. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD).
11. ALL CO-ORDINATES ARE TO AUSTRALIAN MAP GRID (AMG).
12. ALL ROAD CHAINAGES REFER TO ROAD RESERVE CENTRELINES EXCEPT FOR KERB RETURNS AND COURT HEADS WHERE CHAINAGES REFER TO LIP OF KERB.
13. KERB RETURN RADII ARE GIVEN TO LIP OF KERB, UNLESS SHOWN OTHERWISE.
14. TBM'S TO BE RE-ESTABLISHED BY THE PRINCIPALS LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
15. AN ELECTRONIC COPY OF THE DESIGN DRAWINGS WILL BE MADE AVAILABLE TO THE CONTRACTOR FOR THE PURPOSE OF SETTING OUT.
16. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.

EARTHWORKS AND EXCAVATION

17. EXCESS TOPSOIL SHALL BECOME PROPERTY OF THE PRINCIPAL AND STORED AT THE CENTRAL TOPSOIL STOCKPILE AS DIRECTED BY THE SUPERINTENDENT. NO TOPSOIL SHALL BE REMOVED FROM SITE WITHOUT SPECIFIC APPROVAL OF THE SUPERINTENDENT.
18. PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
    a) SOURCE OF QUARRY MATERIAL
    b) N.A.T.A. APPROVED TESTS RESULTS FOR THE F.C.R. THAT IS TO BE USED
    c) IF THE SOURCE OF THE QUARRY MATERIAL IS CHANGED DURING THE COURSE OF THE WORKS, THEN NEW TEST RESULTS SHALL BE PROVIDED.
19. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2017, HAVE BEEN AND WILL BE COMPLIED WITH.
20. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO COMMENCING EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING SERVICE AUTHORITIES PRIOR TO COMMENCING ANY WORKS ON SITE.
21. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE EXPOSED AND PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
22. THE CONTRACTOR SHALL:
    a. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT 1958, AND THE MINES (TRENCHES) REGULATIONS 1982.
    b. NOTIFY WORKSAFE VICTORIA OF THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
    c. ENSURE THAT THE MINE MANAGER OR THEIR DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
23. ON COMMENCEMENT OF CONSTRUCTION WORKS, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL." APPROPRIATE SILTATION CONTROL IS TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION AND MAINTENANCE PERIOD OF THE WORKS.
24. THE CONTRACTOR SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
25. ON-SITE BLASTING IS NOT RECOMMENDED. IF BLASTING IS REQUIRED THEN THE CONTRACTOR IS TO NOTIFY THE SUPERINTENDENT AND COUNCIL IN WRITING, AND OBTAIN ALL REQUIRED PERMITS AND LICENSES. BLASTING IS TO BECARRIED OUT IN ACCORDANCE WITH CURRENT REGULATIONS, DANGEROUS GOODS (EXPLOSIVES) REGULATIONS 2000 AND WORKSAFE VICTORIA REQUIREMENTS.
26. THE CONTRACTOR IS TO PROVIDE DETAILS IN WRITING OF THE DISPOSAL SITE FOR EXCESS SPOIL INCLUDING THE TRUCK ROUTE AND SUBMIT TO COUNCILS REPRESENTATIVE FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORKS.
27. ALL FILLING AREAS IN EXCESS OF 150mm DEPTH TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINISHED SURFACE LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE COMPACTED IN 150mm EQUAL LAYERS TO 95% AUSTRALIAN DRY DENSITY. FILLING IS TO BE TESTED TO THE SATISFACTION OF THE COUNCIL AND TEST RESULTS OF EACH LAYER AND IN EACH LOT TO BE SUBMITTED TO COUNCIL. ALL FILLING TO BE DONE UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-2007
28. FILLING TO COMPLY WITH A.S.3798-2007, 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
29. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO 448 (MAY 2007) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
30. EXISTING DAMS, CHANNELS AND SWALES ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED APPROVED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. FILL TO BE PLACED AND COMPACTED AS SPECIFIED AND TO LEVEL 1 SUPERVISION. (AS3798-2007)

EXISTING TREES

31. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY COUNCILS REPRESENTATIVE.
32. WHERE, AS A CONDITION OF THE PLANNING PERMIT OR AS A RESULT OF THE PRE-CONSTRUCTION MEETING, FENCING OF AREAS CONTAINING TREES, NATIVE GRASSES AND SHRUBS IS REQUIRED, A THREE STRAND STAR PICKET AND WIRE FENCE SHALL BE CONSTRUCTED.
33. NO EXCAVATION SHALL BE UNDERTAKEN WITHIN 5m OF ANY EXISTING TREE WITHOUT THE APPROVAL OF THE SUPERINTENDENT.
34. LOPPING OF BRANCHES ON PRESERVED TREES TO BE DIRECTED BY SUPERINTENDENT.
35. TREES MARKED ON PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. APPROVAL FROM COUNCILS REPRESENTATIVE SHOULD BE OBTAINED PRIOR. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.

EXISTING INFRASTRUCTURE

36. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCILS REPRESENTATIVE.
37. WHERE NEW ASPHALT, CONCRETE K & C, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
38. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
39. ALL EXISTING AUTHORITY ASSETS AFFECTED BY THE WORKS; SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS AND TO THE SATISFACTION OF THE ASSET OWNER.
40. WHERE IT IS INTENDED TO INSTALL SERVICES OR OTHER EQUIPMENT UNDER EXISTING PAVEMENTS, THE CONTRACTOR SHALL OBTAIN A PERMIT AND PAY ANY FEES, FROM THE COUNCIL OR OTHER ROAD AUTHORITY PRIOR TO UNDERTAKING ANY EXCAVATION.

SERVICES

41. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
42. EXISTING SEWER AND STORM WATER DRAINAGE BACK FILLING UNDER THE ROAD PAVEMENT AND BEHIND KERB AND CHANNEL (WITHIN THE ROAD RESERVATION) SHALL BE REPLACED WITH CLASS 2 CRUSHED ROCK.
43. GAS CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SN6. WATER CONDUITS ARE TO BE 50mm DIA. P.V.C. PIPE CLASS SN8. BOTH ARE TO BE LAID AT A MINIMUM DEPTH OF 450mm BELOW ROAD SUBGRADE LEVEL UNLESS NOTED OTHERWISE.
44. CONDUITS FOR GAS AND WATER SERVICES ARE TO BE LOCATED IN THE POSITIONS SHOWN. THEY ARE TO BE PLACED AT RIGHT ANGLES TO THE KERB AND SERVICE ALIGNMENT AND ARE TO EXTEND MIN 600MM BEHIND THE BACK OF KERB. CONDUITS ARE TO BE REFERENCED IN 50mm HIGH LETTERS ON THE FACE OF KERB AND CHANNEL.
45. GAS AND WATER CONDUITS ARE TO BE LAID WITH THE FOLLOWING MIN. COVER TO FINISHED SURFACE LEVELS: UNDER ROADS- 450mm BELOW ROAD SUBGRADE LEVEL ELSEWHERE- 600mm.
46. WATER TAPPINGS FOR LOTS SITUATED ON THE SAME SIDE OF THE WATER MAIN ARE TO BE LOCATED 14m FROM THE PROPERTY BOUNDARY OF THE LOT UNLESS NOTED OTHERWISE. THE KERB IS TO BE MARKED 'W' WITH AN ARROW POINTING TO THE TAPPING.
47. REFER TO THE TELECOMMUNICATIONS DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
48. REFER TO THE ELECTRICAL AND LIGHTING DRAWINGS (BY OTHERS) FOR DETAILS ON CONDUITS AND TRENCHING.
49. ALL SERVICE CONDUITS TRENCHES UNDER ROAD PAVEMENTS ARE TO BE BACKFILLED WITH 20MM 3% CEMENT TREATED CLASS 3 CRUSHED ROCK COMPACTED TO A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
50. ALL FIRE HYDRANTS ARE TO BE MARKED IN ACCORDANCE WITH "IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES" PUBLICATION (DEVELOPED BY C.F.A, M.F.E.S.B & N.R.E). MARKINGS TO BE VIA BLUE RAISED REFLECTIVE PAVEMENT MARKER AND A MARKER POST.

DRAINAGE

51. WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED.
52. ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
53. ALL DRAINS LAID UNDER ROAD PAVEMENT AND BEHIND KERB AND CHANNEL,TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 F.C.R. COMPACTED TO 98% MODIFIED AS PER GAA STANDARD DRAWINGS.
54. WHERE STORMWATER DRAINS ARE LAID UNDER DRIVEWAYS AND FOOTPATHS, TRENCH SHALL BE BACKFILLED WITH 20mm CLASS 3 FCR. COMPACTED TO 98% MODIFIED.
55. PROPERTY INLET PITS ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. INVERT LEVEL OF PROPERTY INLET IS TO BE A MINIMUM OF 500mm BELOW FINISHED/EXISTING SURFACE LEVEL.
56. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH GAA STANDARD DRAWINGS.
57. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF COUNCIL.
58. FOR ALL DRAINAGE PITS, REFER TO GAA STANDARD DRAWINGS UNLESS NOTED OTHERWISE.
59. PROPERTY CONNECTIONS ARE TO BE LOCATED 5.0m FROM BOUNDARY UNLESS OTHERWISE SHOWN. PROPERTY CONNECTIONS ARE TO BE 100mm DIAMETER AND BACKFILLED WITH 20mm CLASS 3 F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS. PIPES TO EXTEND 0.5m INTO PROPERTY AND ARE TO HAVE 0.8m COVER

CONCRETE WORKS

60. GENERALLY (SM2) KERB AND CHANNEL IS TO BE POURED THROUGHOUT THE SUBDIVISION. WHERE OTHER KERB TYPES ARE REQUIRED THEY ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
61. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
62. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE IN ACCORDANCE WITH G.A.A. STANDARD DRAWINGS AND SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
63. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
64. CONCRETE STRENGTH SHALL BE A MINIMUM OF 25MPA AT 28 DAYS UNLESS OTHERWISE NOTED.
65. TRANSITION BETWEEN DIFFERENT KERB PROFILES SHALL BE OVER 3m IF THEY CANNOT BE INCORPORATED INTO A PRAM CROSSING OR DRIVEWAY CROSSING.
66. WHERE TACTILE GROUND SURFACE INDICATORS ARE REQUIRED THEY SHALL BE CONSTRUCTED IN ACCORDANCE WITH VICROADS STANDARD DRAWINGS SD2031 & SD2032. TACTILE GROUND SURFACE INDICATORS MUST CONFORM TO AS1428.4 AND BE APPROVED BY COUNCIL.

PAVEMENTS

67. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL, AND CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 98% AUSTRALIAN STANDARD DENSITY.
68. WEARING COURSE TO BE CONSTRUCTED 5mm ABOVE LIP OF KERB AND CHANNEL.
69. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
70. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE SUPERINTENDENT AND/OR COUNCILS REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE A DENSITY NOT LESS THAN 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
71. PAVEMENT SUB-BASE AND BEDDING TO KERB AND CHANNEL IS TO BE INSTALLED AS PER GAA STANDARDS.

TRAFFIC MANAGEMENT

72. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. LINEMARKING TO BE CARRIED OUT USING THERMOPLASTIC PAINT.
73. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING AND SPECIFICATION.
74. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 -2001.

LANDSCAPING

75. RESERVES TO BE LEFT IN A CONDITION SATISFACTORY TO COUNCILS LANDSCAPE ARCHITECT.
76. TOPSOILING WORKS ARE TO BE PREPARED AS SPECIFIED FOR HAND OVER TO THE LANDSCAPING CONTRACTOR.
77. SOFT SPOTS, WHERE DIRECTED BY COUNCILS LANDSCAPE ARCHITECT ARE TO BE EXCAVATED AND BACKFILLED WITH SPECIFIED MATERIALS.
78. ALL DISTURBED AREAS, IE, NATURESTRIPS, BATTERS,ALLOTMENTS & RESERVES, ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS)AND SOWN WITH GRASS SEED. SEED IS TO BE A GENERAL PARKLAND AND NATURESTRIP BLEND AS APPROVED BY COUNCIL UNLESS OTHERWISEDETAILED. GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD.

DRAWING INDEX

JOB No	SHEET No	SHEET DESCRIPTION
18040-09	01	LOCALITY PLAN & GENERAL NOTES
18040-09	02	DETAIL PLAN
18040-09	03	PAVEMENT DETAILS & TYPICAL SECTIONS
18040-09	04	LONGITUDINAL SECTIONS
18040-09	05	CROSS SECTIONS - BUCKLAND HILL DRIVE 1 OF 4
18040-09	06	CROSS SECTIONS - BUCKLAND HILL DRIVE 2 OF 4
18040-09	07	CROSS SECTIONS - BUCKLAND HILL DRIVE 3 OF 4
18040-09	08	CROSS SECTIONS - BUCKLAND HILL DRIVE 4 OF 4 & SMILAX STREET
18040-09	09	CROSS SECTIONS - MILLAU STREET 1 OF 5
18040-09	10	CROSS SECTIONS - MILLAU STREET 2 OF 5
18040-09	11	CROSS SECTIONS - MILLAU STREET 3 OF 5
18040-09	12	CROSS SECTIONS - MILLAU STREET 4 OF 5
18040-09	13	CROSS SECTIONS - MILLAU STREET 5 OF 5
18040-09	14	INTERSECTION DETAIL PLAN
18040-09	15	LOT BENCHING & RETAINING WALL PLAN
18040-09	16	DRAINAGE LONGITUDINAL SECTIONS
18040-09	17	PIT SCHEDULE
18040-09	18	SIGNAGE & LINE MARKING PLAN

SERVICE OFFSET TABLE

STREET NAME	WATER	ND - WATER	GAS	TELCO	ELEC	POLES
BUCKLAND HILL DRIVE (LOTS 916 & 917)	5.75 S	5.25 S	4.85 S	2.85 N	3.45 N	1.00m×
BUCKLAND HILL DRIVE (LOTS 918-934)	2.75 S	2.25 S	1.85 S	1.00 S	1.00 N	1.00m×
MILLAU STREET	2.95 W	2.50 W	2.05 W	2.30 E	1.80 E	1.00m×
SMILAX STREET	3.20 E	2.70 E	2.30 E	2.85 W	3.45 E	1.00m×

1. × DENOTES OFFSET FROM BACK OF KERB
2. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH
3. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH

MELBOURNE ONE CALL SYSTEM DIAL 1100 DIAL BEFORE YOU DIG

WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

No.	REVISION	DATE	DES/DFT	APPROVED
B	SERVICE OFFSET TABLE UPDATED	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date AUGUST 2021

NEWBRIDGE SOUTH ESTATE
STAGE 9
MITCHELL SHIRE COUNCIL
LOCALITY PLAN

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-01
Revision: B
Sheet No: 01 of 18
Scale @ A1
N.T.S

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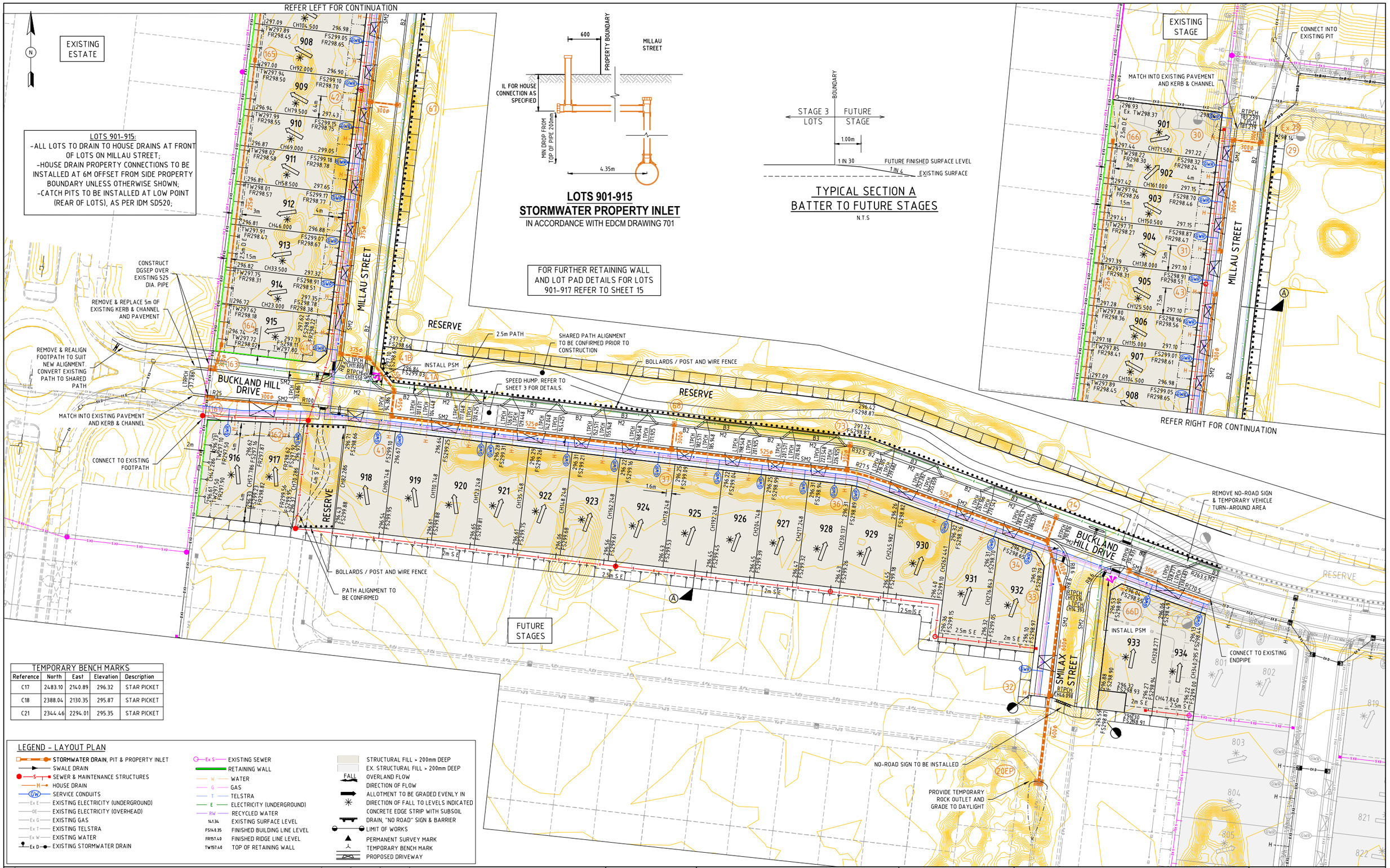

TEMPORARY BENCH MARKS				
Reference	North	East	Elevation	Description
C17	2483.10	2140.89	296.32	STAR PICKET
C18	2388.04	2130.35	295.87	STAR PICKET
C21	2344.46	2294.01	295.35	STAR PICKET

LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- RETAINING WALL
- WATER
- GAS
- TELSTRA
- ELECTRICITY (UNDERGROUND)
- RECYCLED WATER
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW157.40 TOP OF RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- FALL OVERLAND FLOW DIRECTION OF FLOW
- ALLOTMENT TO BE GRADED EVENLY IN DIRECTION OF FALL TO LEVELS INDICATED
- CONCRETE EDGE STRIP WITH SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- LIMIT OF WORKS
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY

No.	REVISION	DATE	DES/DFT	APPROVED
B	UPDATED TO COUNCILS COMMENTS	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
PAVEMENT DETAILS & TYPICAL SECTIONS

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-02
Revision: B
Sheet No: 02 of 18
Scale @ A1 1:1000
0 5 10 20

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file name 18040-09-02.dwg layout name 02 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

Table 5A. Flexible Granular Pavement Design Configuration with CBR =2.0% & Swell of 4.0%

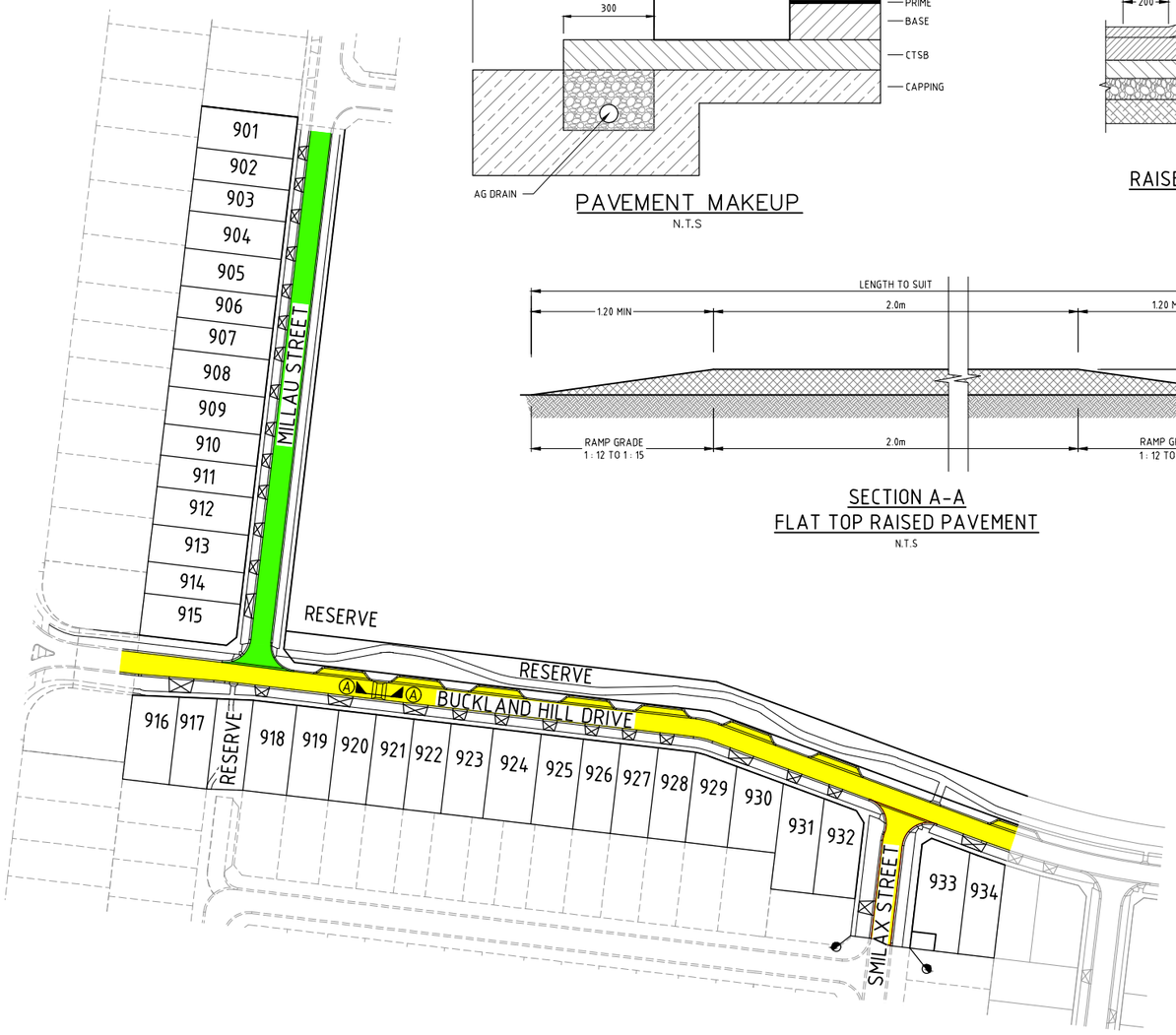
Layer	Access Lane	Access Street (Level 1)	Access Street (Level 2)	Connector Street
Asphalt (Wearing Course)	20mm, Size 7 Type L (Class 320 Binder)[1]	30mm, Size 10 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)	40mm, Size 14 Type N (Class 320 Binder)
Asphalt (Structural Course/Base Course)	30mm, Size 10 Type N (Class 320 Binder)	30mm, Size 10 Type N (Class 320 Binder)	40mm, Size 14 Type HP[2] (Class A10E Binder)	40mm, Size 14 Type HP (Class A10E Binder)
SAMI Size 10 S18R	SAMI Layer (Pavement Thickness does not include SAMI Layer, allow 5mm total thickness)			
Prime	Primerseal or Bituminous Prime (if not subjected to the traffic during construction)			
Base (to match with kerb & channel)	140mm, Size 20mm Class 2 Crushed Rock (VicRoads)	130mm, Size 20mm Class 2 Crushed Rock (VicRoads)	110mm, Size 20mm Class 2 Crushed Rock (VicRoads)	110mm, Size 20mm Class 2 Crushed Rock (VicRoads)
Base (Lower)	-	-	-	100mm, Size 20mm Class 2 Crushed Rock (VicRoads)
Unbound Subbase / Cement Treated	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	100mm, Size 20mm Class 3 Crushed Rock (VicRoads)	150mm, size 20, 4% cement treated Class 3 crushed rock (VicRoads)
Lower Subbase	-	-	140mm, Size 20mm Class 4 Crushed Rock (VicRoads)	-
Capping Layer	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill
Construction Layer[3]	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill	150mm, Type A Selected Fill
Subgrade	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell	2.0% CBR & 4.0% Swell
DESAs	4.71×10^4	1.81×10^5	7.80×10^5	2.79×10^6
Total Thickness	**590mm**	**590mm**	**730mm**	**740mm**

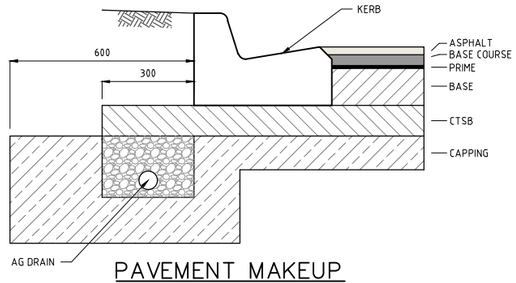
THE PAVEMENT DESIGN SHOWN HERE HAS BEEN DESIGNED/PROVIDED BY CONTINENT GEOTECH SERVICES PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. URBAN DESIGN AND MANAGEMENT (UDM) IS NOT RESPONSIBLE FOR THE WORK OF CONTINENT GEOTECH SERVICES.

UDM DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGN.

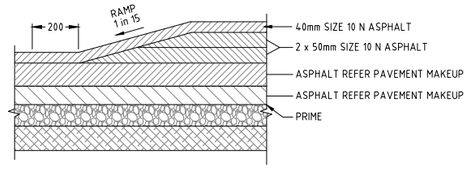
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGN SHOULD BE ADDRESSED TO CONTINENT GEOTECH SERVICES PTY LTD AND SENT TO UDM.

IF THE FILL MATERIAL ON SITE IS TO BE GREATER THAN 1m FROM THE NATURAL SURFACE & THE IMPORTED FILL WITH CBR > 4.0% WILL BE FULFILLING THE ROLE OF THE SUBGRADE, REFER TO GEOTECHNICAL REPORT FOR ALTERNATIVE PAVEMENT COMPOSITION.

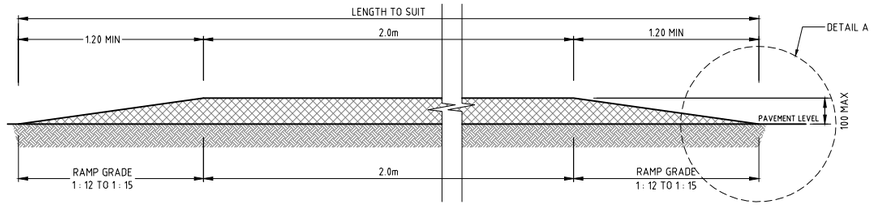




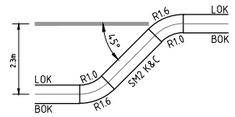
PAVEMENT MAKEUP
N.T.S



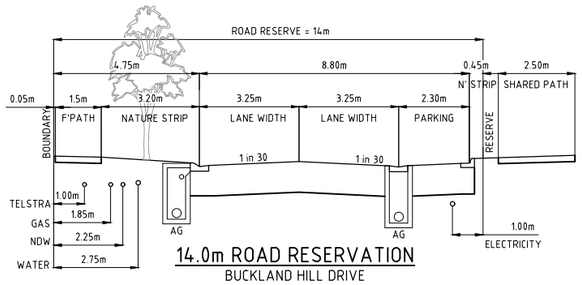
DETAIL A
RAISED PLATFORM PROFILE
N.T.S



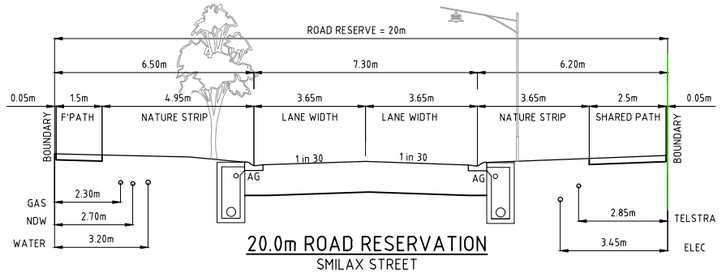
SECTION A-A
FLAT TOP RAISED PAVEMENT
N.T.S



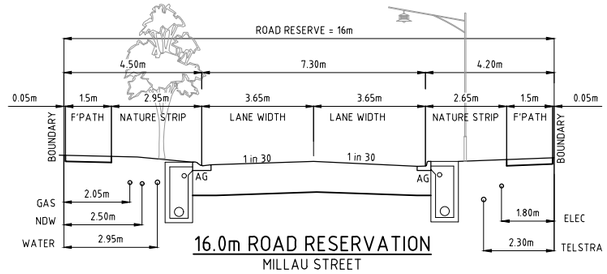
INDENTED PARKING BAY SETOUT
N.T.S



14.0m ROAD RESERVATION
BUCKLAND HILL DRIVE



20.0m ROAD RESERVATION
SMILAX STREET



16.0m ROAD RESERVATION
MILLAU STREET

No.	REVISION	DATE	DES/DFT	APPROVED
B	UPDATED TO COUNCILS COMMENTS	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
PAVEMENT DETAILS & TYPICAL SECTIONS

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-03
Revision: B
Sheet No: 03 of 18
Scale @ A1 1:1000
0 10 20 40

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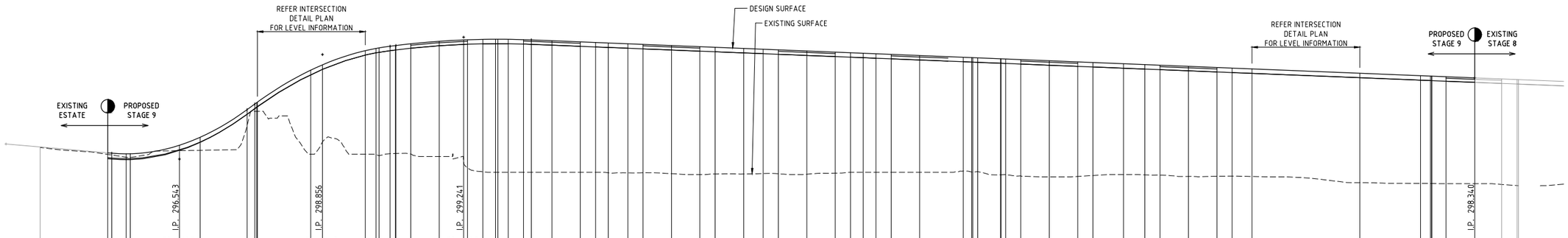
ABN 62 525 443 156

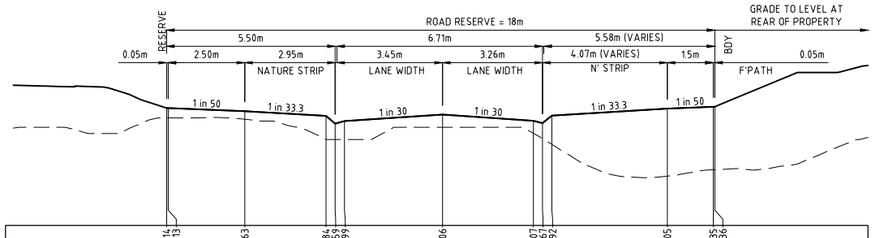
file name 18040-09-03.dwg layout name 03 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 9\Drawings
plotted by Mark Rossitto plot date 10/7/2021 3:10 PM


REFER INTERSECTION DETAIL PLAN FOR LEVEL INFORMATION
DESIGN SURFACE
EXISTING SURFACE
REFER INTERSECTION DETAIL PLAN FOR LEVEL INFORMATION
PROPOSED STAGE 9
EXISTING STAGE 8
EXISTING ESTATE
PROPOSED STAGE 9
I.P. 296.543
I.P. 298.856
I.P. 299.241
I.P. 298.340
30m V.C.
30m V.C.
30m V.C.
-0.868%
7.296%
1.227%
-0.402%
-0.400%

DATUM 294

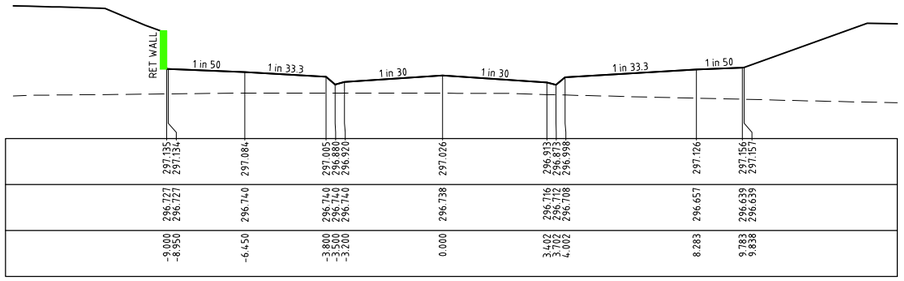
| | | |

LEGEND
EXISTING SURFACE
DESIGN LINE



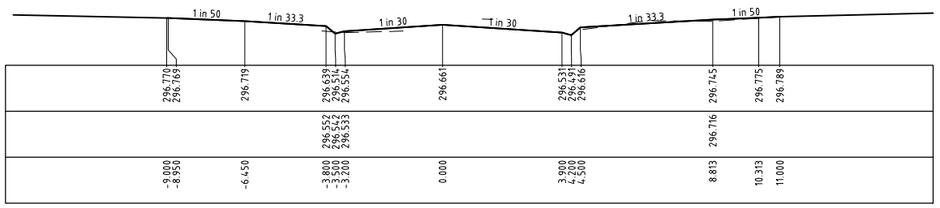
DATUM296.0																		
DESIGN SURFACE	297.914	297.863	297.784	297.695	297.699	297.806	297.707	297.667	297.792	297.905	297.935	297.936
EXISTING SURFACE	297.750	297.732	297.404	297.400	297.400	297.600	297.500	297.414	297.322	296.802	296.908	296.909
OFFSET	-9.000	-6.450	-3.800	-3.500	-3.200	0.000	2.963	3.263	3.563	7.331	8.831	8.881

LTPCH 70.486



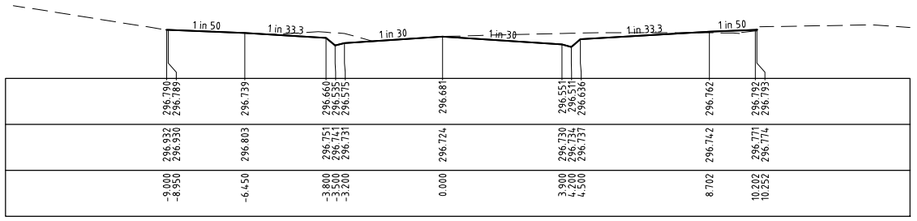
DATUM296.0											
DESIGN SURFACE	297.135	297.084	297.085	296.880	296.920	297.026	296.913	296.873	296.998	297.126	297.156	297.157
EXISTING SURFACE	296.727	296.740	296.740	296.740	296.740	296.738	296.716	296.712	296.708	296.657	296.639	296.639
OFFSET	-9.000	-6.450	-3.800	-3.500	-3.200	0.000	3.402	3.702	4.002	8.283	9.783	9.838

CH 57.786



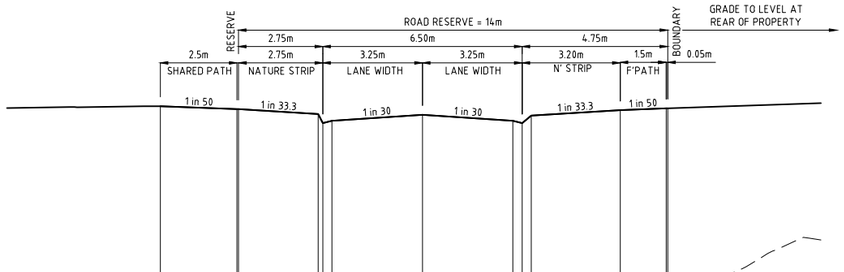
DATUM296.0									
DESIGN SURFACE	296.770	296.719	296.638	296.554	296.554	296.661	296.531	296.491	296.616	296.745	296.775	296.789
EXISTING SURFACE	296.562	296.562	296.533	296.533	296.716
OFFSET	-9.000	-6.450	-3.800	-3.500	-3.200	0.000	3.900	4.200	4.500	8.813	10.313	11.000

CH 42.286



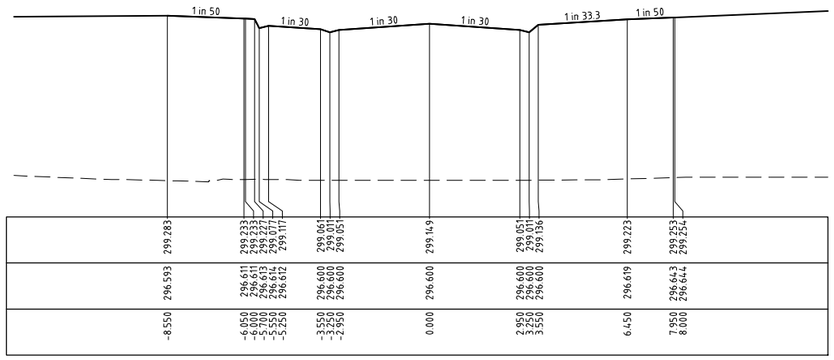
DATUM296.0												
DESIGN SURFACE	296.790	296.739	296.660	296.575	296.575	296.681	296.551	296.511	296.636	296.762	296.792	296.793
EXISTING SURFACE	296.932	296.803	296.751	296.731	296.731	296.724	296.730	296.734	296.737	296.742	296.771	296.774
OFFSET	-9.000	-6.450	-3.800	-3.500	-3.200	0.000	3.900	4.200	4.500	8.702	10.202	10.252

LRTP CH 37.286



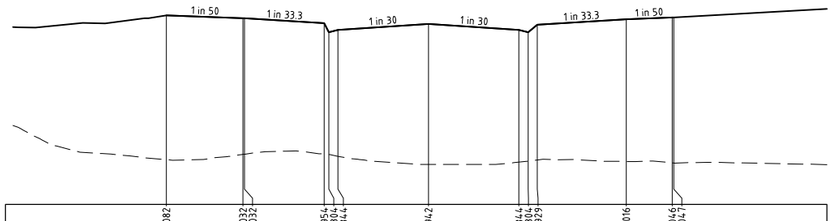
DATUM296.0												
DESIGN SURFACE	299.335	299.285	299.285	299.207	299.057	299.091	299.195	299.097	299.057	299.182	299.269	299.299	299.300
EXISTING SURFACE	296.304	296.300	296.300	296.277	296.276	296.274	296.250	296.250	296.250	296.250	296.250	296.275	296.277
OFFSET	-8.550	-6.050	-6.000	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

CH 123.248



DATUM296.0																		
DESIGN SURFACE	299.283	299.233	299.233	299.077	299.077	299.117	299.061	299.051	299.051	299.149	299.051	299.051	299.156	299.223	299.253	299.254
EXISTING SURFACE	296.593	296.611	296.611	296.612	296.612	296.612	296.600	296.600	296.600	296.600	296.600	296.600	296.600	296.619	296.643	296.644
OFFSET	-8.550	-6.050	-6.000	-5.550	-5.500	-5.250	-3.550	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

CH 110.748



DATUM296.0																		
DESIGN SURFACE	299.082	299.032	299.032	298.954	298.844	298.844	298.842	298.844	298.844	298.942	298.844	298.844	298.905	299.016	299.046	299.047
EXISTING SURFACE	296.729	296.814	296.818	296.818	296.811	296.783	296.650	296.687	296.723	296.723	296.699	296.676	296.674
OFFSET	-8.550	-6.050	-6.000	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

LTPCH 94.386

No.	REVISION	DATE	DES/DFT	APPROVED
B	CH 37.286 TO 94.386 UPDATED	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - BUCKLAND HILL DRIVE
CH 37.286 - CH 123.248
SHEET 1 OF 1

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-05
Revision: B
Sheet No: 05 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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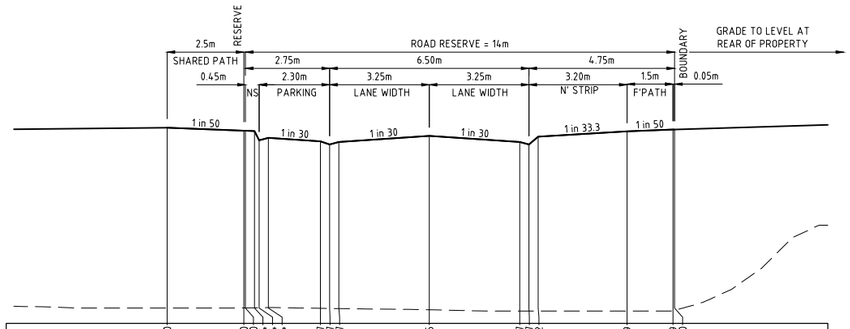
ABN 62 525 443 156

file name 18040-09-05-13.dwg layout name 05 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



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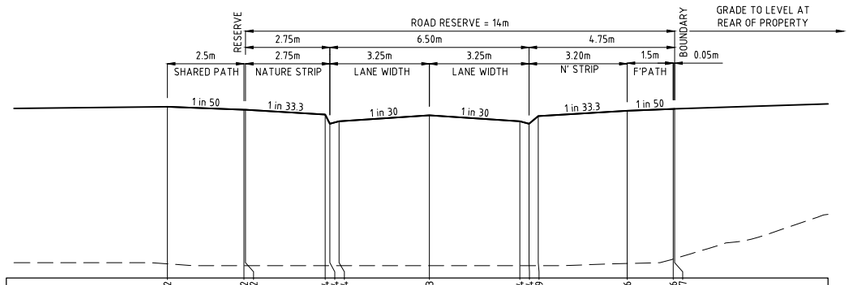
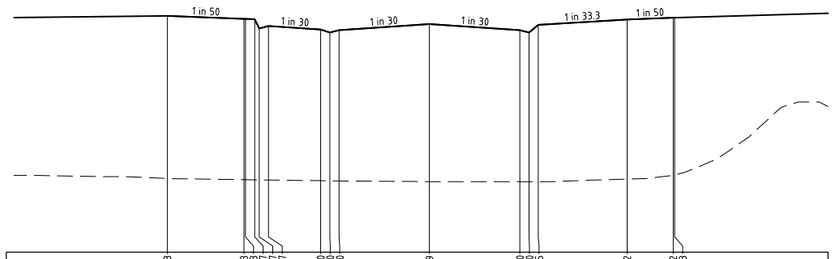
LEGEND
EXISTING SURFACE
DESIGN LINE



DATUM296.0

DESIGN SURFACE	298.792	298.742	298.742	298.664	298.554	298.554	298.653	298.554	298.554	298.639	298.726	298.756	298.757
EXISTING SURFACE	296.231	296.200	296.200	296.200	296.200	296.200	296.200	296.200	296.200	296.200	296.236	296.308	296.315
OFFSET	-8.550	-6.050	-6.000	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

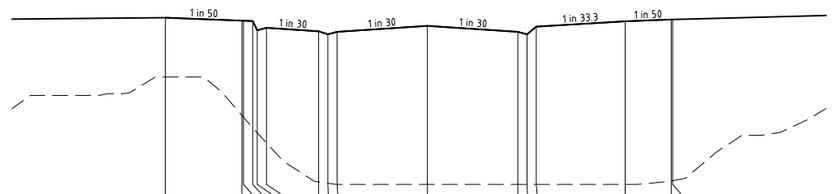
CH 262.441



DATUM295.0

DESIGN SURFACE	298.853	298.803	298.803	298.717	298.647	298.647	298.719	298.630	298.580	298.620	298.792	298.822	298.823
EXISTING SURFACE	296.200	296.182	296.182	296.180	296.179	296.177	296.150	296.165	296.163	296.161	296.191	296.256	296.262
OFFSET	-8.550	-6.050	-6.000	-5.550	-5.550	-5.250	0.000	-3.550	-3.250	-2.950	6.450	7.950	8.000

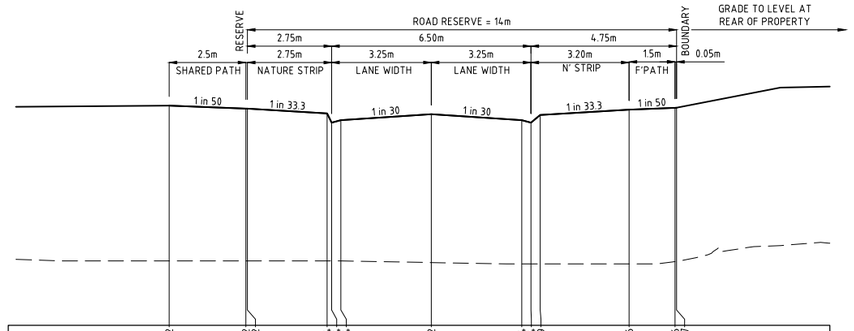
CH 245.982



DATUM296.0

DESIGN SURFACE	298.969	298.919	298.919	298.833	298.763	298.803	298.834	298.716	298.696	298.736	298.821	298.908	298.938	298.939
EXISTING SURFACE	298.000	297.374	297.345	297.113	297.090	296.927	296.250	296.390	296.269	296.250	296.250	296.250	296.304	296.309
OFFSET	-8.550	-6.050	-6.000	-5.550	-5.550	-5.250	0.000	-3.550	-3.250	-2.950	6.450	7.950	8.000

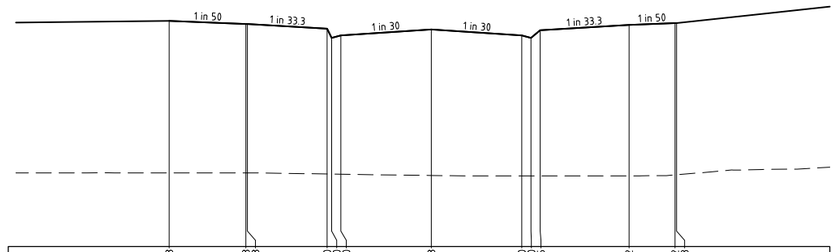
CH 217.248



DATUM295.0

DESIGN SURFACE	298.582	298.532	298.532	298.454	298.344	298.344	298.442	298.344	298.344	298.429	298.516	298.545	298.547
EXISTING SURFACE	296.050	296.050	296.050	296.050	296.050	296.050	296.023	296.000	296.000	296.000	296.000	296.039	296.043
OFFSET	-8.550	-6.050	-6.000	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

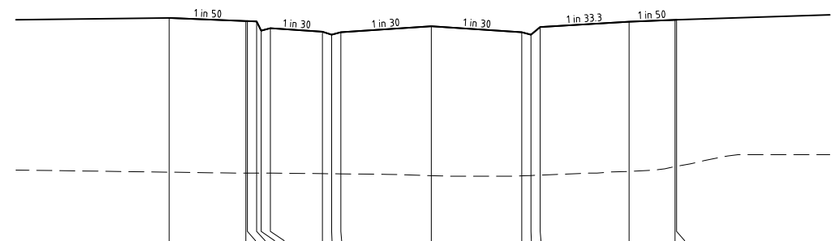
RTP CH 314.835



DATUM295.0

DESIGN SURFACE	298.678	298.628	298.628	298.550	298.440	298.440	298.538	298.440	298.440	298.525	298.612	298.642	298.643
EXISTING SURFACE	296.200	296.200	296.200	296.181	296.160	296.178	296.158	296.150	296.150	296.150	296.150	296.168	296.170
OFFSET	-8.550	-6.050	-6.000	-3.400	-3.250	-2.950	0.000	2.950	3.250	3.550	6.450	7.950	8.000

RTP CH 290.916



DATUM295.0

DESIGN SURFACE	298.729	298.679	298.679	298.617	298.523	298.563	298.595	298.506	298.456	298.496	298.668	298.698	298.699
EXISTING SURFACE	296.215	296.200	296.200	296.200	296.200	296.200	296.159	296.191	296.190	296.188	296.228	296.306	296.311
OFFSET	-8.550	-6.050	-6.000	-5.550	-5.550	-5.250	0.000	-3.550	-3.250	-2.950	6.450	7.950	8.000

CH 276.843

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - BUCKLAND HILL DRIVE
CH 217.248 - CH 314.835
SHEET 3 OF 4

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-07
Revision: A
Sheet No: 07 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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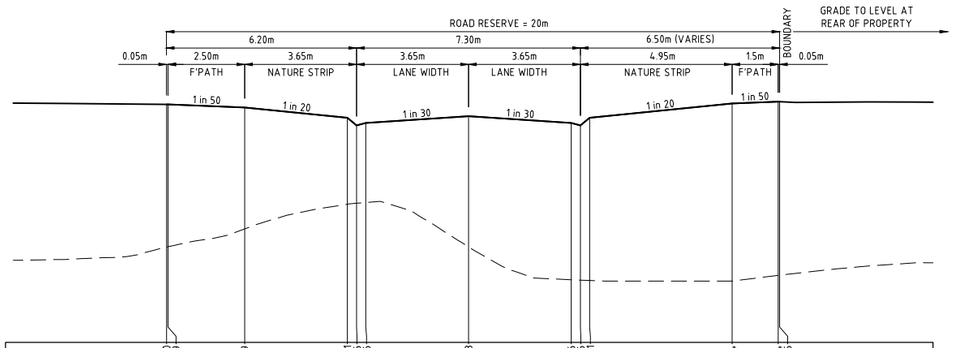
ABN 62 525 443 156

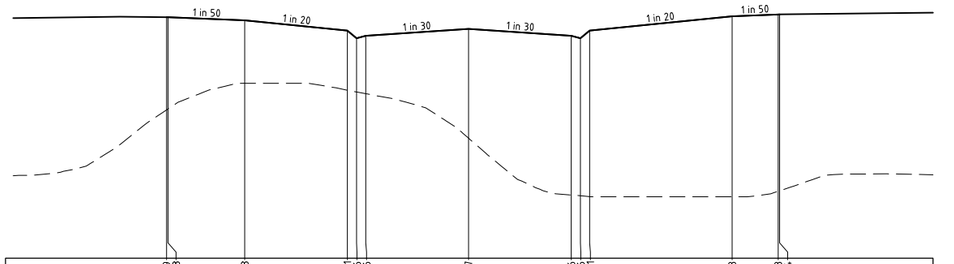
file name 18040-09-05-13.dwg layout name 07 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



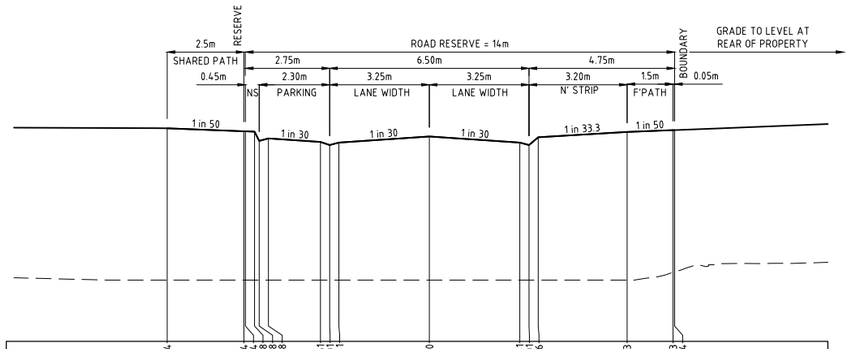
DATUM295.0																								
DESIGN SURFACE	298.880	298.879	298.829	298.661	298.536	298.536	298.576	298.688	298.576	298.536	298.661	298.894	298.924	298.925
EXISTING SURFACE	296.554	296.559	296.849	297.252	297.288	297.288	297.280	296.557	296.021	296.015	296.009	296.000	296.092	296.095
OFFSET	-9.850	-9.800	-7.300	-3.950	-3.650	-3.650	-3.350	0.000	3.350	3.650	3.950	8.600	10.100	10.150

RTP CH 46.098



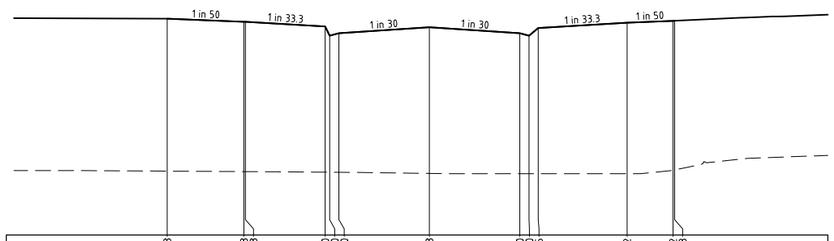
DATUM295.0																								
DESIGN SURFACE	298.929	298.928	298.878	298.711	298.586	298.626	298.626	298.737	298.626	298.586	298.711	298.943	298.973	298.974
EXISTING SURFACE	297.417	297.433	297.850	297.738	297.709	297.681	297.681	296.957	296.030	296.018	296.004	296.000	296.089	296.097
OFFSET	-9.850	-9.800	-7.300	-3.950	-3.650	-3.650	-3.350	0.000	3.350	3.650	3.950	8.600	10.100	10.150

CH 33.748



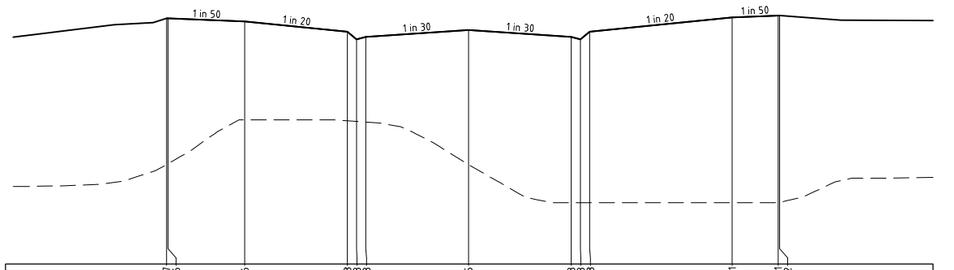
DATUM295.0																								
DESIGN SURFACE	298.474	298.424	298.424	298.308	298.268	298.241	298.251	298.340	298.241	298.326	298.326	298.413	298.443	298.444
EXISTING SURFACE	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.000	296.124	296.132
OFFSET	-8.550	-6.050	-6.000	-5.550	-5.250	-3.550	-3.250	0.000	2.950	3.350	3.550	6.450	7.850	8.000

CH 340.295



DATUM295.0														
DESIGN SURFACE	298.528	298.478	298.478	298.400	298.290	298.250	298.388	298.250	298.375	298.375	298.462	298.492	298.493
EXISTING SURFACE	296.042	296.034	296.034	296.025	296.023	296.023	296.005	296.000	296.000	296.000	296.000	296.056	296.062
OFFSET	-8.550	-6.050	-6.000	-3.400	-2.950	-2.950	0.000	2.950	3.350	3.550	6.450	7.850	8.000

BUCKLAND HILL DRIVE CH 328.277



DATUM295.0														
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EXISTING SURFACE	296.622	296.637	297.350	297.335	297.325	297.315	297.315	296.622	296.000	296.000	296.000	296.000	296.000	296.004
OFFSET	-9.850	-9.800	-7.300	-3.950	-3.650	-3.650	-3.350	0.000	3.350	3.650	3.950	8.600	10.100	10.150

SMILAX STREET LTP CH 14.393

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - BUCKLAND HILL DRIVE
CH 328.277 - CH 340.295
SHEET 4 OF 4 & SMILAX STREET

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-08
Revision: A
Sheet No: 08 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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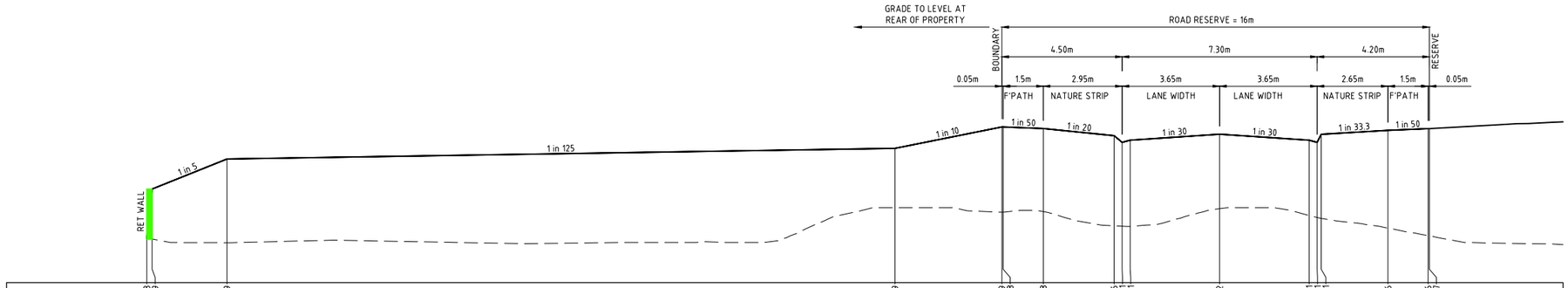
ABN 62 525 443 156

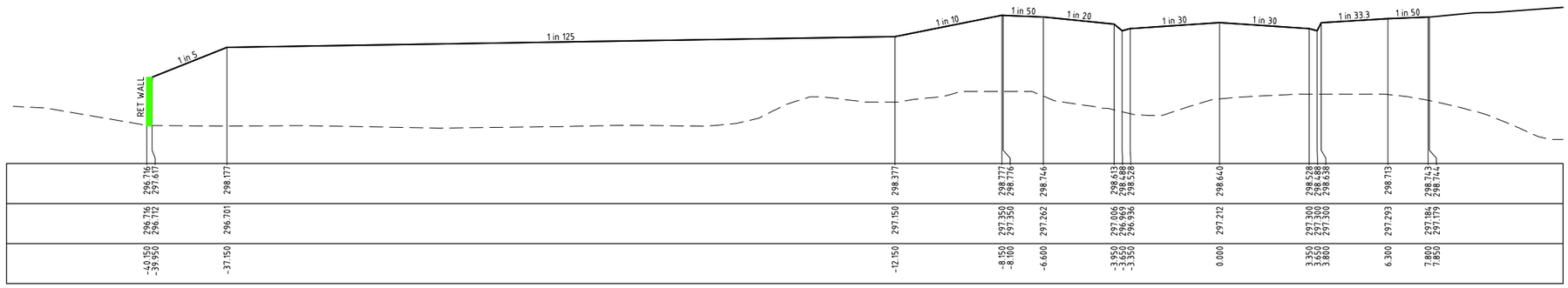
file name 18040-09-05-13.dwg layout name 08 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



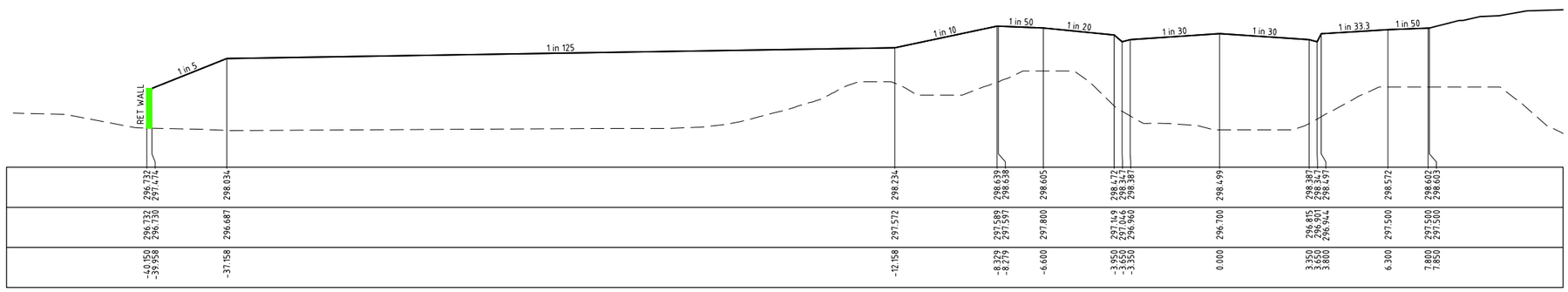
DATUM296.0																								
DESIGN SURFACE	296.823	297.749	298.309	298.509	298.908	298.908	298.878	298.746	298.621	298.661	298.772	298.661	298.621	298.771	298.846	298.876	298.817
EXISTING SURFACE	296.823	296.815	296.746	297.400	297.318	297.318	297.327	297.062	297.062	297.051	297.383	297.233	297.277	297.200	297.019	296.880	296.876
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 33.500



DATUM296.0																								
DESIGN SURFACE	296.716	297.617	298.177	298.377	298.777	298.776	298.746	298.613	298.488	298.528	298.640	298.528	298.488	298.638	298.713	298.743	298.744
EXISTING SURFACE	296.716	296.712	296.701	297.150	297.350	297.350	297.262	297.006	297.066	296.936	297.212	297.300	297.300	297.300	297.293	297.184	297.179
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 23.000



DATUM296.0																								
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EXISTING SURFACE	296.732	296.730	296.687	297.572	297.589	297.597	297.800	297.149	297.104	296.960	296.700	296.815	296.901	296.944	297.500	297.500	297.500
OFFSET	-40.150	-39.958	-37.158	-12.158	-8.329	-8.279	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

LTP CH 11.800

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MILLAU STREET
CH 11.800 - CH 33.500
SHEET 4 OF 5

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-09
Revision: A
Sheet No: 09 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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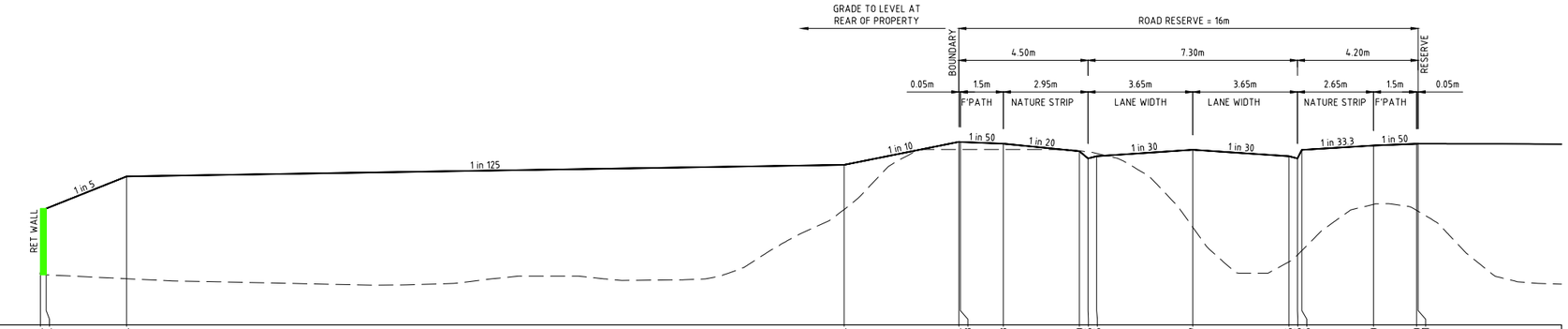
ABN 62 525 443 156

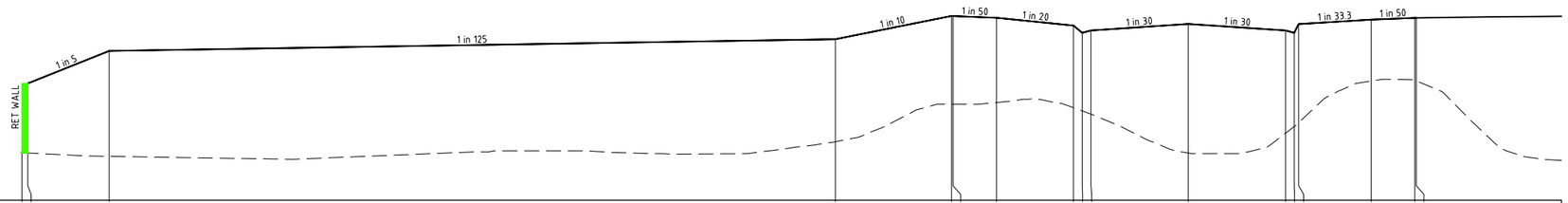
file name 18040-09-05-13.dwg layout name 09 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



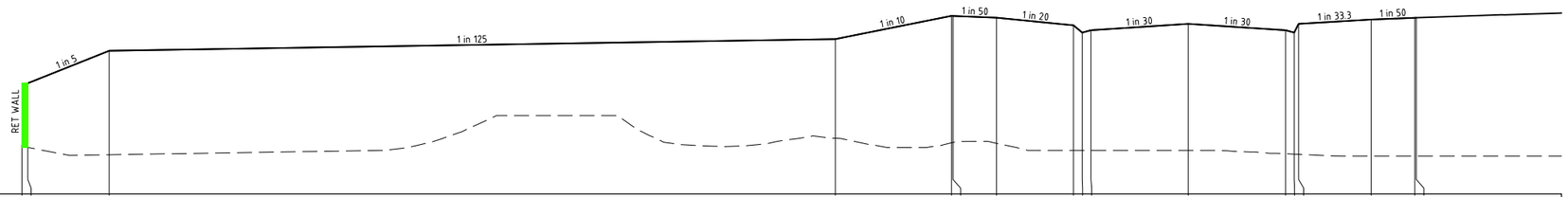
DATUM296.0																							
DESIGN SURFACE	296.874	298.024	298.584	298.784	299.184	299.183	299.153	299.020	298.895	298.955	299.047	298.935	298.895	299.045	299.120	299.150	299.151
EXISTING SURFACE	296.874	296.871	296.804	298.005	299.050	299.050	299.050	299.029	299.010	298.984	297.700	297.097	297.277	297.292	298.097	297.992	297.977
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 69.000



DATUM296.0																							
DESIGN SURFACE	296.810	298.006	298.566	298.766	299.166	299.165	299.135	299.033	298.878	298.918	299.029	298.918	298.878	299.028	299.103	299.133	299.134
EXISTING SURFACE	296.810	296.808	296.754	297.003	297.650	297.650	297.679	297.591	297.535	297.481	296.812	297.151	297.266	297.332	298.048	298.063	298.052
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 58.500



DATUM296.0																							
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EXISTING SURFACE	296.808	296.801	296.675	296.960	296.881	296.886	296.871	296.750	296.750	296.750	296.750	296.692	296.685	296.682	296.650	296.650	296.650
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 46.000

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MILLAU STREET
CH 46.000 - CH 69.000
SHEET 2 OF 5

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-10
Revision: A
Sheet No: 10 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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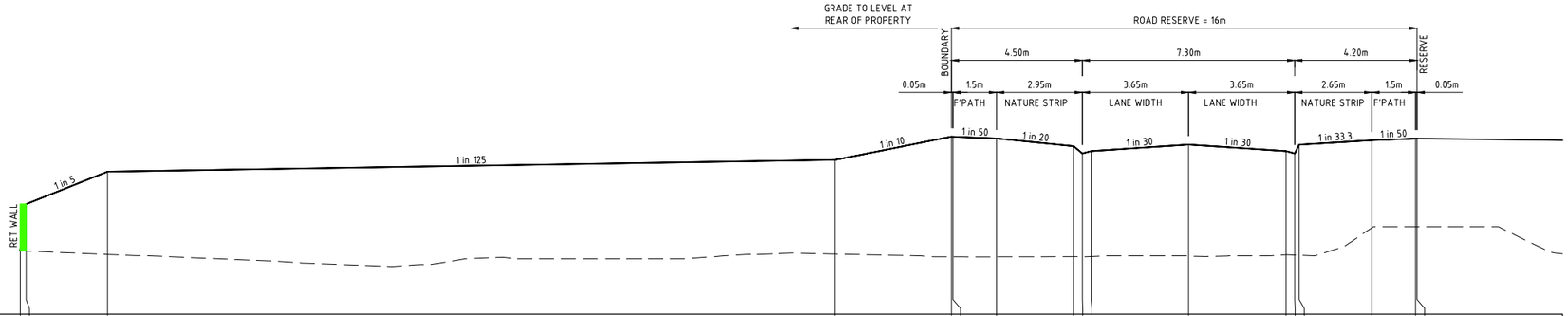
ABN 62 525 443 156

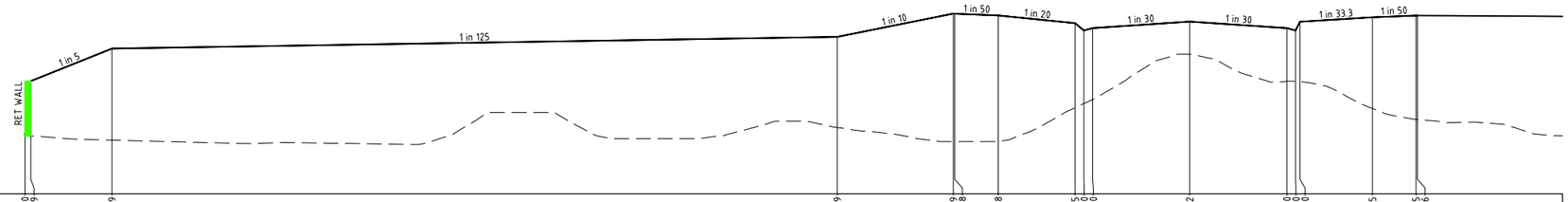
file name 18040-09-05-13.dwg layout name 10 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



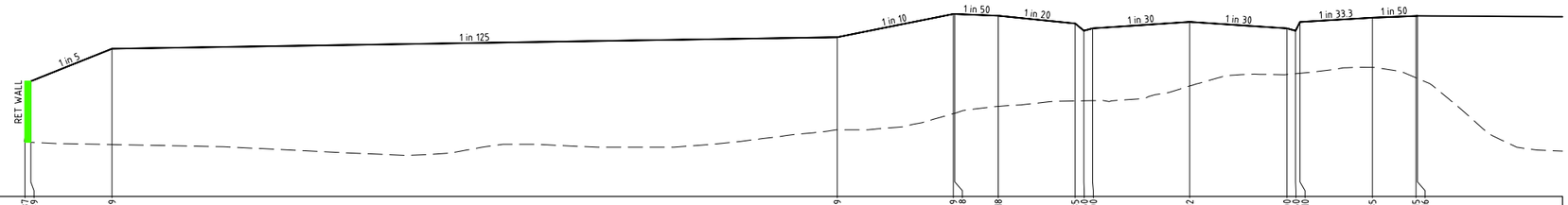
DATUM296.0																							
DESIGN SURFACE	297.888	297.889	298.449	298.649	299.010	299.048	299.018	298.885	298.800	298.800	298.912	298.800	298.800	298.910	298.985	299.015	299.016
EXISTING SURFACE	297.088	297.085	297.025	297.032	296.984	296.984	296.983	296.986	296.985	296.985	297.000	297.019	297.012	297.012	297.483	297.500	297.500
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.550	-3.550	0.000	3.350	3.550	3.800	6.300	7.800	7.850

CH 104.500



DATUM296.0																							
DESIGN SURFACE	297.000	297.999	298.499	298.699	299.000	299.098	299.068	298.935	298.850	298.850	298.962	298.850	298.850	298.900	299.035	299.065	299.066
EXISTING SURFACE	297.000	296.998	296.924	297.142	296.900	296.900	296.901	297.482	297.522	297.522	298.400	297.935	297.935	297.934	297.467	297.278	297.277
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.550	-3.550	0.000	3.350	3.550	3.800	6.300	7.800	7.850

CH 92.000



DATUM296.0																							
DESIGN SURFACE	296.937	297.989	298.549	298.749	299.149	299.148	299.118	298.885	298.800	298.800	299.012	298.800	298.800	299.010	299.085	299.115	299.116
EXISTING SURFACE	296.937	296.934	296.896	297.150	297.128	297.126	297.554	297.648	297.653	297.653	297.907	298.105	298.105	298.126	298.227	298.018	298.037
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.550	-3.550	0.000	3.350	3.550	3.800	6.300	7.800	7.850

CH 79.500

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MILLAU STREET
CH 79.500 - CH 104.500
SHEET 2 OF 5

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-11
Revision: A
Sheet No: 11 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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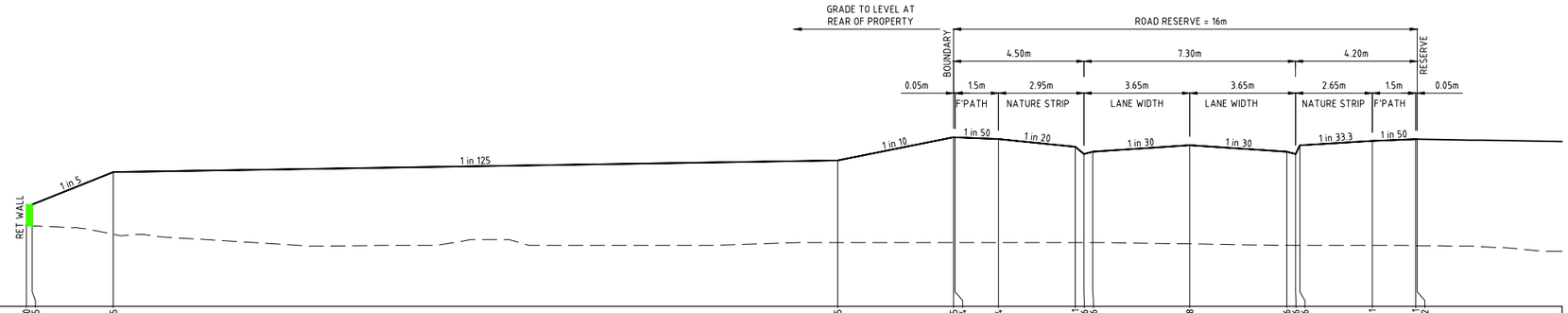
ABN 62 525 443 156

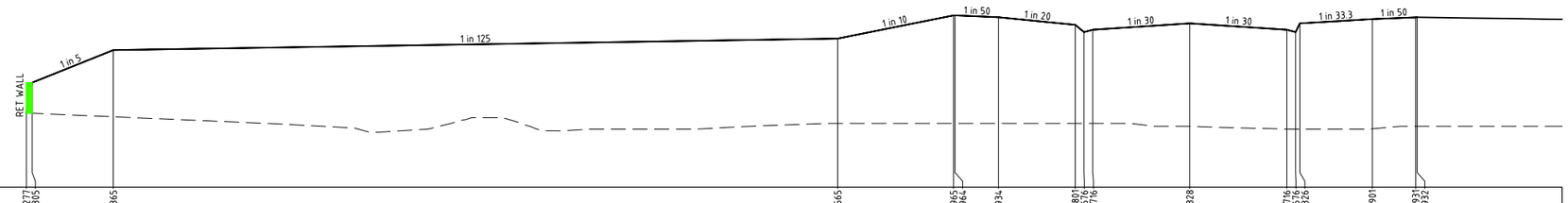
file name 18040-09-05-13.dwg layout name 11 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



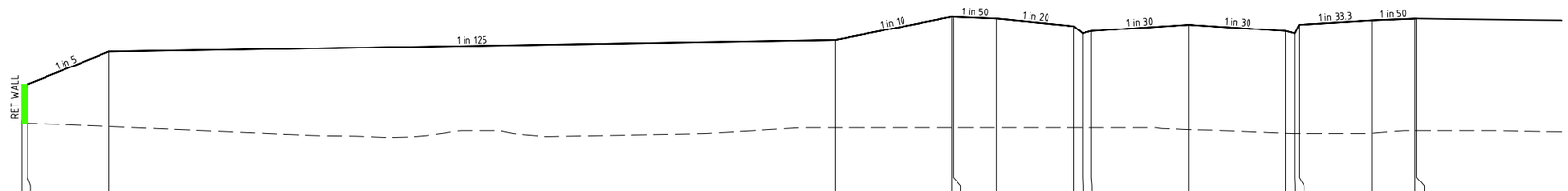
DATUM296.0																						
DESIGN SURFACE	297.390	297.755	298.315	298.515	298.915	298.914	298.884	298.751	298.626	298.666	298.778	298.666	298.626	298.776	298.851	298.881	298.882
EXISTING SURFACE	297.390	297.387	297.242	297.100	297.100	297.100	297.100	297.100	297.100	297.100	297.079	297.052	297.050	297.050	297.050	297.046	297.045
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 138.000



DATUM296.0																	
DESIGN SURFACE	297.277	297.805	298.365	298.565	298.965	298.964	298.934	298.801	298.676	298.716	298.828	298.716	298.676	298.826	298.901	298.931	298.932
EXISTING SURFACE	297.277	297.275	297.214	297.100	297.100	297.100	297.100	297.100	297.100	297.100	297.048	297.002	297.000	297.000	297.007	297.050	297.050
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 125.500



DATUM296.0																	
DESIGN SURFACE	297.182	297.847	298.407	298.607	299.007	299.006	298.976	298.843	298.718	298.758	298.870	298.758	298.718	298.868	298.943	298.973	298.974
EXISTING SURFACE	297.182	297.180	297.120	297.100	297.100	297.100	297.100	297.100	297.100	297.100	297.065	297.005	297.000	297.000	297.006	297.050	297.050
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 115.000

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MILLAU STREET
CH 115.000 - CH 138.000
SHEET 4 OF 5

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-12
Revision: A
Sheet No: 12 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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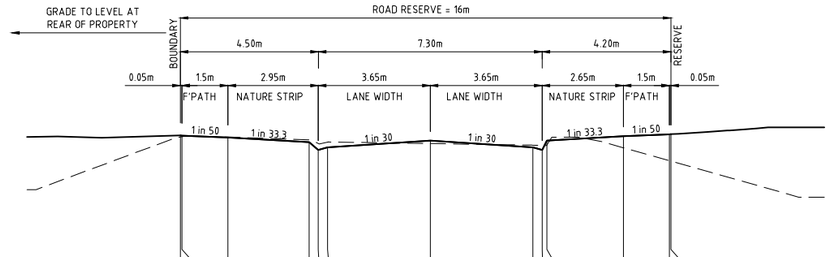
ABN 62 525 443 156

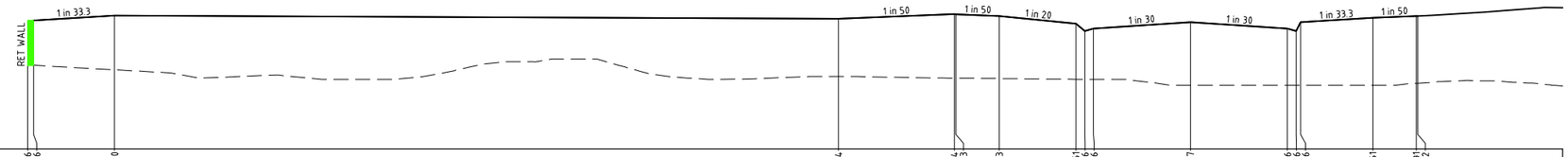
file name 18040-09-05-13.dwg layout name 12 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
EXISTING SURFACE
DESIGN LINE



DATUM296.0																							
DESIGN SURFACE	298.105	298.104	298.074	297.994	297.960	297.909	298.021	297.909	297.860	298.019	298.094	298.124	298.125
EXISTING SURFACE	298.080	298.084	298.079	298.033	297.993	297.996	297.973	297.947	297.944	297.948	297.904	297.693	297.686
OFFSET	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

LTP CH 181.219

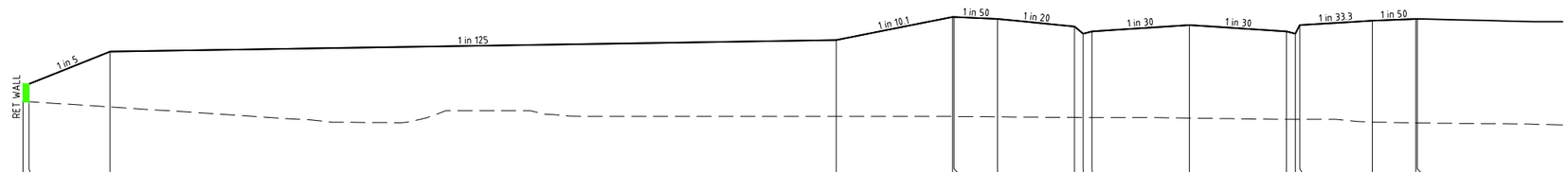


DATUM296.0																							
DESIGN SURFACE	297.446	298.216	298.300	298.244	298.321	298.323	298.293	298.161	298.055	298.076	298.187	298.076	298.056	298.186	298.261	298.291	298.292
EXISTING SURFACE	297.446	297.443	297.366	297.250	297.222	297.222	297.215	297.201	297.200	297.200	297.100	297.100	297.100	297.100	297.100	297.132	297.133
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 171.500

DATUM296.0																							
DESIGN SURFACE	297.418	297.943	298.263	298.463	298.702	298.701	298.671	298.538	298.535	298.453	298.565	298.453	298.453	298.563	298.638	298.668	298.669
EXISTING SURFACE	297.418	297.417	297.338	297.200	297.151	297.151	297.158	297.158	297.158	297.158	297.158	297.153	297.153	297.150	297.157	297.166	297.167
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 161.000



DATUM296.0																							
DESIGN SURFACE	297.405	297.711	298.267	298.467	298.865	298.864	298.834	298.701	298.696	298.616	298.728	298.616	298.616	298.726	298.801	298.831	298.832
EXISTING SURFACE	297.405	297.405	297.314	297.150	297.150	297.150	297.143	297.133	297.131	297.131	297.122	297.100	297.100	297.100	297.054	297.040	297.039
OFFSET	-40.150	-39.950	-37.150	-12.150	-8.150	-8.100	-6.600	-3.950	-3.650	-3.350	0.000	3.350	3.650	3.800	6.300	7.800	7.850

CH 150.500

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
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Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
CROSS SECTIONS - MILLAU STREET
CH 150.500 - CH 181.219
SHEET 5 OF 5

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-13
Revision: A
Sheet No: 13 of 18
Scale @ A1 0 1 2 4
H1:100, V1:50 0 0.5 1 2

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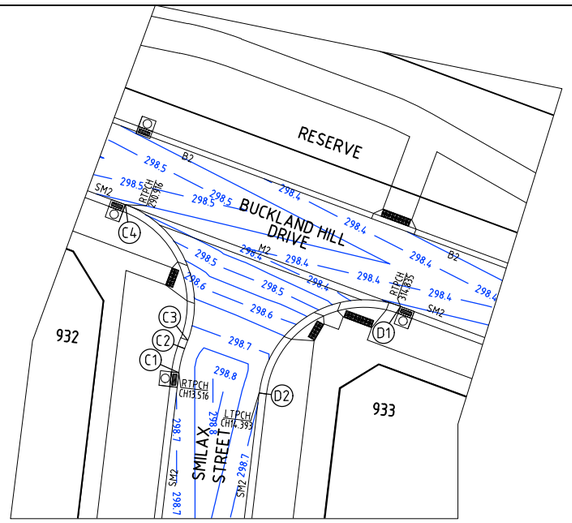
ABN 62 525 443 156

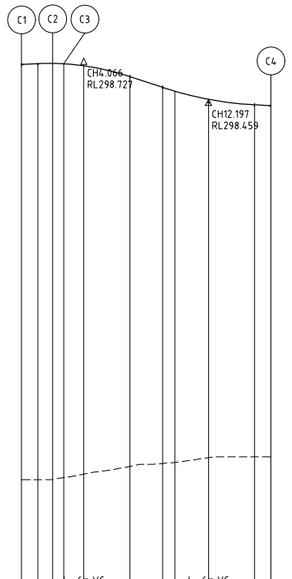
file name 18040-09-05-13.dwg layout name 13 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings



INTERSECTION DETAIL PLAN

BUCKLAND HILL DRIVE & SMILAX STREET

SCALE 1:250 0 2.5 5 10



VERTICAL GEOMETRY

DATUM RL295														
DESIGN LEVEL	298.707	298.712	298.714	298.711	298.699	298.628	298.558	298.533	298.480	298.444	298.439			
EXISTING SURFACE	296.000	296.000	296.001	296.014	296.037	296.087	296.106	296.113	296.144	296.150	296.150			
CHAINAGE	0.000	1.066	2.036	2.754	4.066	7.066	9.197	10.000	12.197	15.197	16.263			

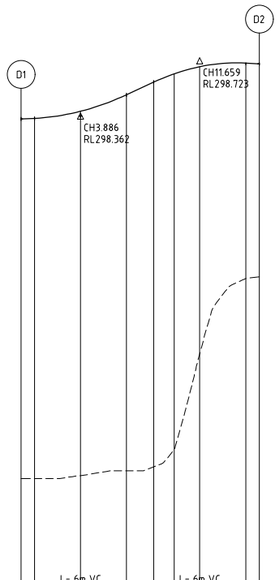
LIP LINE C

SCALE H 1:250 V 1:25 0 2.5 5 10 / 0 0.25 0.5 1

Alignment C

Point no	Easting	Northing	RL
C1	1920.257	2465.108	298.707
C2	1920.732	2467.083	298.714
C3	1920.980	2467.756	298.711
C4	1915.895	2478.804	298.439

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL	
C1 - C2	13.564	8.600	2.036	0.060	0.045	0.509	0.507	0.509	298.712	
C3 - C4	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	298.548	



VERTICAL GEOMETRY

DATUM RL295														
DESIGN LEVEL	298.343	298.347	298.393	298.501	298.584	298.638	298.684	298.708	298.703					
EXISTING SURFACE	296.000	296.000	296.018	296.050	296.076	296.190	296.810	297.303	297.315					
CHAINAGE	0.000	0.886	3.886	6.886	8.659	10.000	11.659	14.659	15.545					

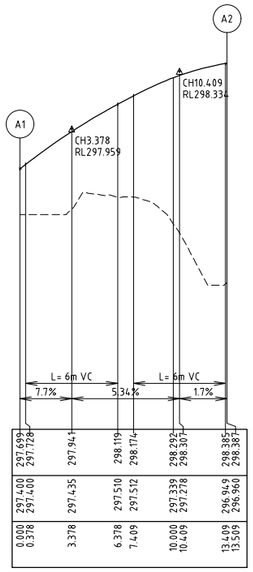
LIP LINE D

SCALE H 1:250 V 1:25 0 2.5 5 10 / 0 0.25 0.5 1

Alignment D

Point no	Easting	Northing	RL
D1	1938.331	2470.513	298.343
D2	1926.809	2463.452	298.703

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL	
D1 - D2	103.564	8.600	15.545	3.280	2.416	3.755	3.001	3.886	298.543	



VERTICAL GEOMETRY

DATUM RL296														
DESIGN LEVEL	297.699	297.729	297.941	298.119	298.174	298.293	298.317	298.385	298.387					
EXISTING SURFACE	297.400	297.400	297.435	297.510	297.512	297.339	297.278	296.949	296.960					
CHAINAGE	0.000	0.378	3.378	6.378	7.409	10.000	10.409	13.409	13.509					

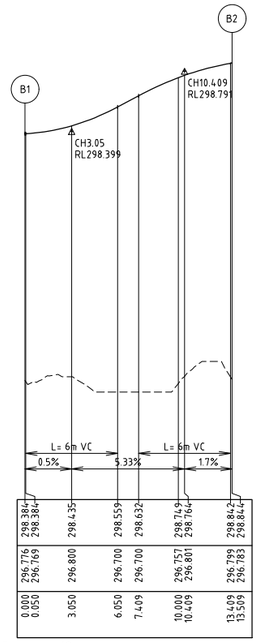
LIP LINE A

SCALE H 1:250 V 1:25 0 2.5 5 10 / 0 0.25 0.5 1

Alignment A

Point no	Easting	Northing	RL
A1	1701.592	2524.066	297.699
A2	1711.139	2531.601	298.387

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL	
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	298.139	



VERTICAL GEOMETRY

DATUM RL296														
DESIGN LEVEL	298.384	298.384	298.435	298.559	298.632	298.719	298.764	298.842	298.844					
EXISTING SURFACE	296.776	296.769	296.800	296.700	296.700	296.757	296.801	296.799	296.783					
CHAINAGE	0.000	0.050	3.050	6.050	7.409	10.000	10.409	13.409	13.509					

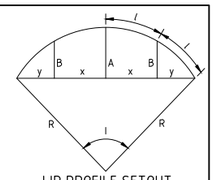
LIP LINE B

SCALE H 1:250 V 1:25 0 2.5 5 10 / 0 0.25 0.5 1

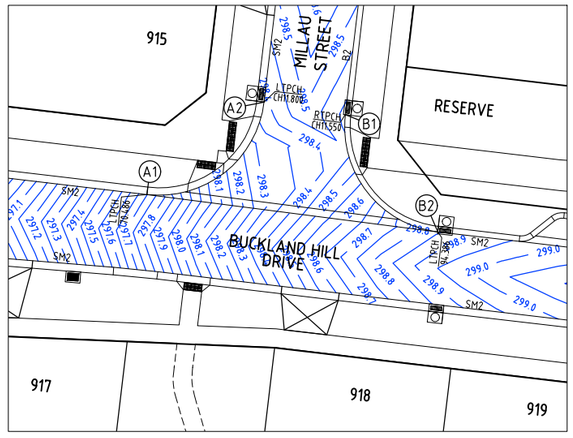
Alignment B

Point no	Easting	Northing	RL
B1	1717.764	2530.568	298.384
B2	1725.299	2521.021	298.844

Curve no	I	Radius	Arc	A	B	X	Y	l	Mid point RL	
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	298.597	



LIP PROFILE SETOUT



INTERSECTION DETAIL PLAN

BUCKLAND HILL DRIVE & MILLAU STREET

SCALE 1:250 0 2.5 5 10

No.	REVISION	DATE	DES/DFT	APPROVED
B	UPDATED TO COUNCILS COMMENTS	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP

MITCHELL SHIRE COUNCIL

Issued for Approval

Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management

Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249

Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
INTERSECTION DETAIL PLAN

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-14

Revision: B

Sheet No: 14 of 18

Scale @ A1
AS SHOWN

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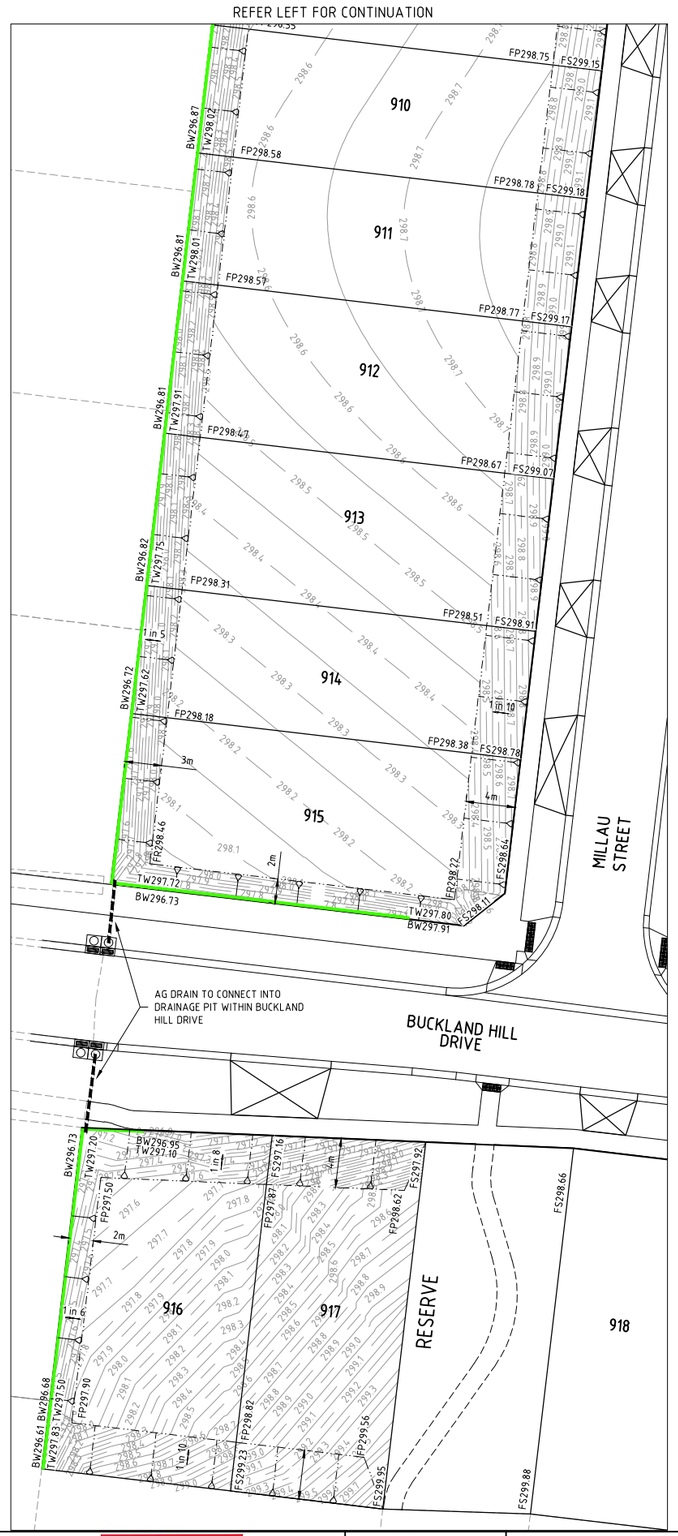
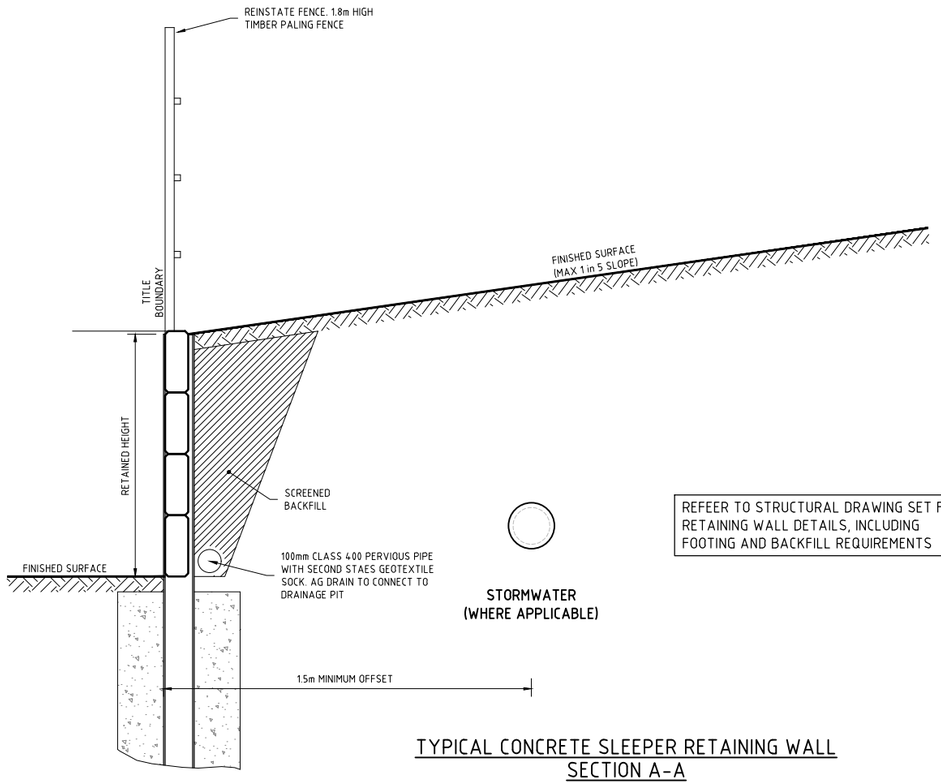
ABN 62 525 443 156

file name 18040-09-14.dwg layout name 14 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 9\Drawings
plotted by Mark Rossitto plot date 10/7/2021 3:11 PM



LEGEND

	DESIGN CONTOURS
	BATTER LINE
BW160.20	BOTTOM WALL LEVEL
TW160.20	TOP WALL LEVEL
FP160.20	FINISHED PAD LEVEL
	RETAINING WALL PROPOSED
	RETAINING WALL EXISTING



REFEER TO STRUCTURAL DRAWING SET FOR RETAINING WALL DETAILS, INCLUDING FOOTING AND BACKFILL REQUIREMENTS

TYPICAL CONCRETE SLEEPER RETAINING WALL SECTION A-A

N.T.S.

No.	REVISION	DATE	DES/DFT	APPROVED
B	TYPICAL SECTION ADDED	08.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP

MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
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Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
LOT BENCHING & RETAINING WALL PLAN

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-15

Revision: B

Sheet No: 15 of 18

Scale @ A1
AS SHOWN

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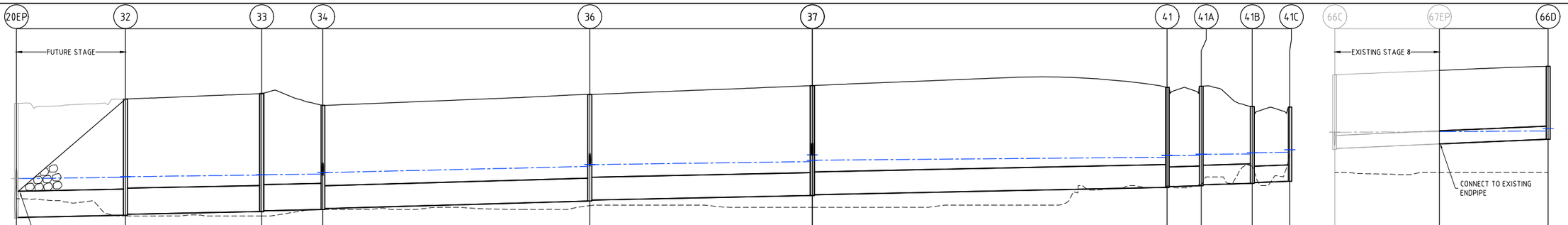
ABN 62 525 443 156

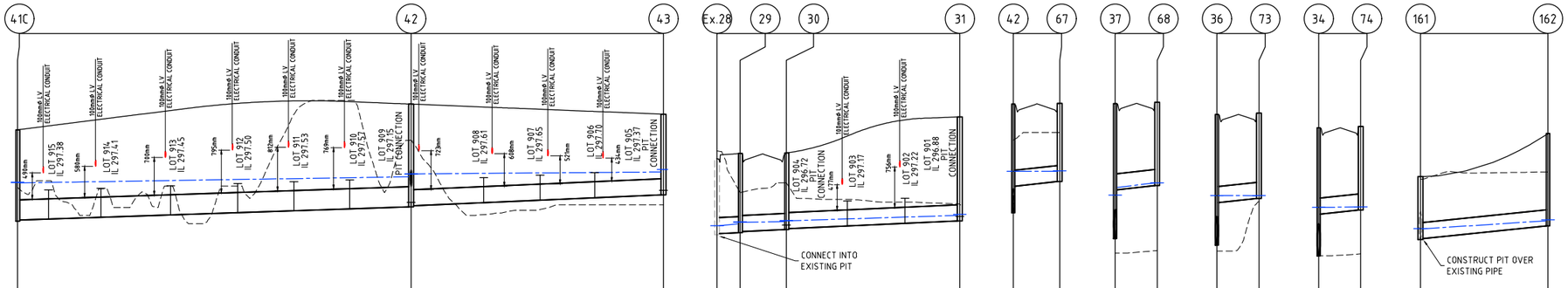
file name 18040-09-15.dwg layout name 15 file location L:\Work\Eng\18040_Newbridge_Estate\Stage 9\Drawings
plotted by Mark Rossitto plot date 10/8/2021 2:33 PM

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE

CRB - COMPACTED CLASS 3 FCR BACKFILL
SN8 - CORRUGATED POLYPROPYLENE PIPE - STORMPRO



	20EP	32	33	34	36	37	41	41A	41B	41C	66C	67EP	66D
PIPE TYPE													
BACKFILL	CRB	CRB	CRB	CRB	CRB	CRB	CRB	CRB	CRB			CRB	
DESIGN FLOW (m3/s)	0.215	0.206	0.207	0.190	0.158	0.124	0.078	0.076	0.071		0.027		
CAPACITY (m3/s)	0.275	0.275	0.275	0.230	0.194	0.194	0.147	0.147	0.101		0.064		
AT GRADE VELOCITY (m/s)	0.97	0.97	0.97	1.06	0.9	0.9	0.93	0.93	0.92		0.9		
PIPE SIZE (mm)	600Φ	600Φ	600Φ	525Φ	525Φ	525Φ	450Φ	450Φ	375Φ		300Φ		
GRADE	1 in 500	1 in 500	1 in 500	1 in 350	1 in 490	1 in 490	1 in 375	1 in 375	1 in 300		1 in 230		
DATUM	293.0										292.0		
DEPTH TO INVERT	2.638 / 2.618	2.668 / 2.648	2.710 / 2.690	2.390 / 2.370	2.444 / 2.424	2.525 / 2.505	2.300 / 2.280	2.284 / 2.264	1.767 / 1.747	1.705 / 1.685	1.715 / 1.695		1.615
HYDRAULIC GRADE LINE	296.830 / 296.860	296.890 / 296.905	296.940 / 296.948	296.964 / 296.999 / 296.998	297.138 / 297.180	297.249 / 297.281	297.349 / 297.393 / 297.386	297.392 / 297.421 / 297.417	297.425 / 297.453 / 297.452	297.467 / 297.520 / 297.510	296.905 / 296.928 / 296.923		296.954 / 297.006
INVERT LEVEL	295.948 / 295.968	296.019 / 296.039	296.101 / 296.121	296.149 / 296.169	296.345 / 296.365	296.470 / 296.490	296.656 / 296.676	296.697 / 296.717	296.748 / 296.768	296.797 / 296.817	296.530 / 296.550	296.654	296.764
FINISHED SURFACE LEVELS	298.586	298.686	298.812	298.540	298.789	298.994	298.956	298.981	298.515	298.502	298.245		298.439
EXISTING SURFACE LEVEL	296.399	296.005	296.000	296.150	296.237	296.200	296.690	296.719	297.148	297.416	296.000		296.000
CHAINAGE (Reach Length)	0.000	25.100 (25.100)	56.483 (31.383)	70.511 (14.029)	131.985 (61.474)	183.189 (51.203)	264.850 (81.662)	272.700 (7.850)	284.438 (11.738)	293.092 (8.654)	119.700	143.800 (24.100)	168.821 (25.021)



	41C	42	43	Ex.28	29	30	31	42	67	37	68	36	73	34	74	161	162
PIPE TYPE																	
BACKFILL	CRB	CRB		CRB	CRB	CRB		CRB		CRB		CRB		CRB		CRB	
DESIGN FLOW (m3/s)	0.069	0.027		0.037	0.027	0.017		0.011		0.005		0.005		0.006		0.015	
CAPACITY (m3/s)	0.101	0.064		0.064	0.064	0.064		0.097		0.097		0.097		0.097		0.097	
AT GRADE VELOCITY (m/s)	0.92	0.9		0.9	0.9	0.9		1.37		1.37		1.37		1.37		1.37	
PIPE SIZE (mm)	375Φ	300Φ		300Φ	300Φ	300Φ		300Φ		300Φ		300Φ		300Φ		300Φ	
GRADE	1 in 300	1 in 230		1 in 230	1 in 230	1 in 230		1 in 100		1 in 100		1 in 100		1 in 100		1 in 100	
DATUM	293.0			293.0				293.0		293.0		293.0		293.0		292.0	
DEPTH TO INVERT	1.705 / 1.685	1.920 / 1.900	1.507	1.423 / 1.403	1.483 / 1.463	1.432 / 1.412	1.945	2.032 / 1.534	1.464	2.525 / 1.614	1.560	2.444 / 1.647	1.594	2.390 / 1.614	1.560	1.178 / 1.158	1.724
HYDRAULIC GRADE LINE	297.467 / 297.520 / 297.510	297.624 / 297.678	297.714 / 297.763	296.710	296.743 / 296.775	296.786 / 296.805 / 296.802	296.903 / 296.924	297.611 / 297.727	297.727 / 297.735	297.249 / 297.281 / 297.426	297.511 / 297.513	297.228 / 297.273	297.272 / 297.273	297.013 / 297.055 / 297.053	297.061 / 297.063	295.646 / 295.655 / 295.653	295.801 / 295.823
INVERT LEVEL	296.797 / 296.817	297.062 / 297.082	297.287	296.541 / 296.561	296.580 / 296.600	296.638 / 296.658	296.798	296.950 / 297.448	297.535	296.470 / 297.381	297.459	296.345 / 297.142	297.221	296.149 / 296.926	297.004	295.451 / 295.471	295.709
FINISHED SURFACE LEVELS	298.502	298.982	298.794	297.965	298.063	298.069	298.744	298.982	298.998	298.994	299.019	298.789	298.814	298.540	298.565	296.628	297.433
EXISTING SURFACE LEVEL	297.416	298.307	297.098	298.108	297.330	297.512	297.114	298.307	298.450	296.200	296.247	296.237	297.158	296.150	296.185	296.582	296.716
CHAINAGE (Reach Length)	293.092	366.575 (73.483)	413.692 (47.117)	0.000	4.294 (4.294)	12.944 (8.650)	45.327 (32.383)	0.000 (8.650)		0.000 (7.850)		0.000 (7.850)		0.000 (7.850)		0.000	23.812 (23.812)

No.	REVISION	DATE	DES/DFT	APPROVED
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date AUGUST 2021

NEWBRIDGE SOUTH ESTATE
STAGE 9
MITCHELL SHIRE COUNCIL
DRAINAGE LONGITUDINAL SECTIONS

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-16
Revision: A
Sheet No: 16 of 18
Scale @ A1 0 5 10 20
H1:500, V1:50 0 0.5 1 2

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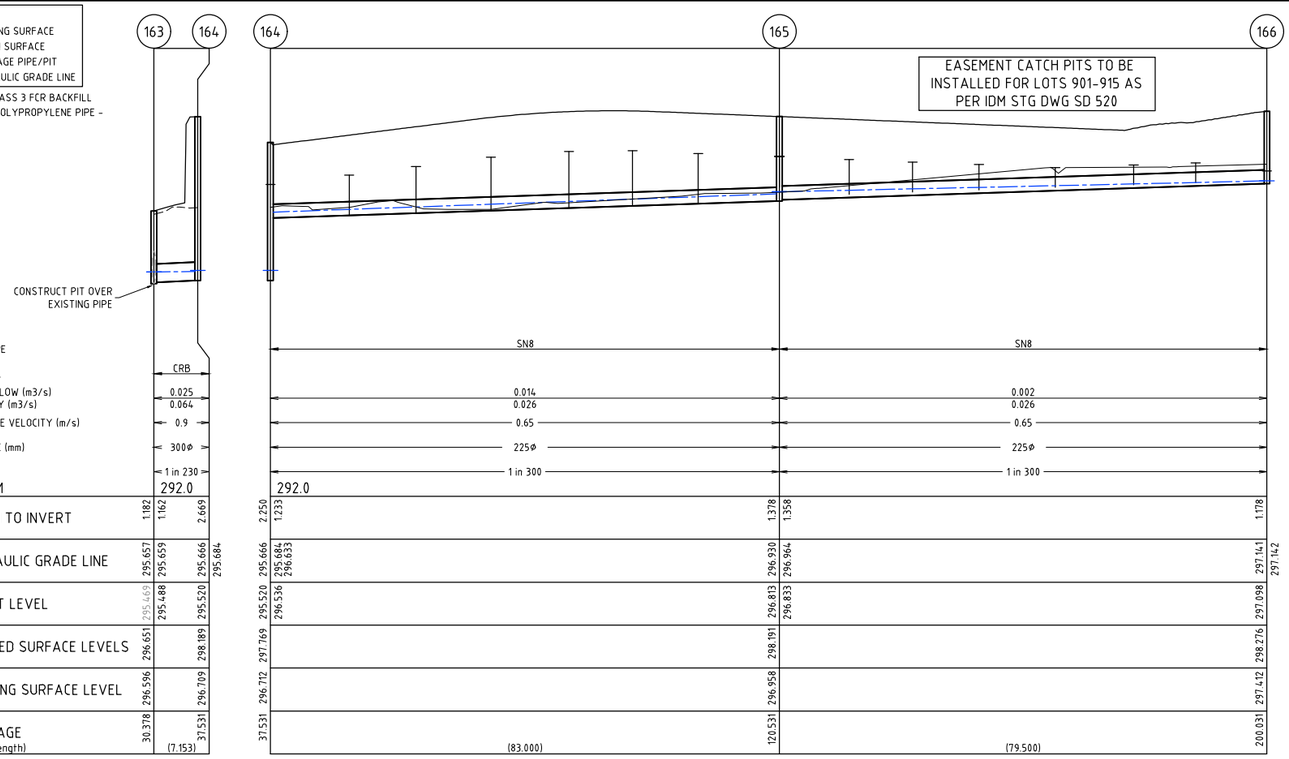
ABN 62 525 443 156

file name 18040-09-16-17.dwg layout name 16 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings

LEGEND
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE

CRB - COMPACTED CLASS 3 FCR BACKFILL
SN8 - CORRUGATED POLYPROPYLENE PIPE - STORMPRO



PIT SCHEDULE

NAME	TYPE	INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
		WIDTH	LENGTH	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
20EP	ENDPIPE			600	295.968						PROVIDE TEMPORARY ROCK OUTLET
EX. 28	EX. GRATED SIDE ENTRY PIT			300	296.561	EX.300	296.541				CONNECT INTO EXISTING PIT
29	GRATED SIDE ENTRY PIT	600	900	300	296.6	300	296.58	298.063	1.483	EDCM 601	
30	GRATED SIDE ENTRY PIT	600	900	300	296.658	300	296.638	298.047	1.409	EDCM 603	
31	GRATED SIDE ENTRY PIT	600	900			300	296.798	298.744	1.945	EDCM 603	
32	GRATED SIDE ENTRY PIT	900	900	600	296.039	600	296.019	298.686	2.668	EDCM 603	
33	GRATED SIDE ENTRY PIT	900	900	600	296.121	600	296.101	298.812	2.71	EDCM 603	
34	GRATED SIDE ENTRY PIT	750	900	525	296.169	600	296.149	298.541	2.391	EDCM 603	
				300	296.926						
36	GRATED SIDE ENTRY PIT	750	900	525	296.365	525	296.345	298.792	2.447	EDCM 603	
				300	297.142						
37	GRATED SIDE ENTRY PIT	750	900	525	296.49	525	296.47	298.998	2.528	EDCM 603	
				300	297.381						
41	GRATED SIDE ENTRY PIT	750	900	450	296.676	525	296.656	298.956	2.3	EDCM 603	
41A	GRATED SIDE ENTRY PIT	600	900	450	296.717	450	296.697	298.981	2.284	EDCM 601	
41B	GRATED SIDE ENTRY PIT	600	900	375	296.768	450	296.748	298.515	1.767	EDCM 601	
41C	GRATED SIDE ENTRY PIT	600	900	375	296.817	375	296.797	298.502	1.705	EDCM 603	
42	GRATED SIDE ENTRY PIT	600	900	300	297.082	375	297.062	298.982	1.92	EDCM 603	
				300	297.448						
43	GRATED SIDE ENTRY PIT	600	900			300	297.287	298.794	1.507	EDCM 603	
66D	GRATED SIDE ENTRY PIT	600	900			300	296.764	298.439	1.675	EDCM 603	
67	GRATED SIDE ENTRY PIT	600	900			300	297.535	298.998	1.464	EDCM 601	
68	GRATED SIDE ENTRY PIT	600	900			300	297.459	299.023	1.564	EDCM 601	
73	GRATED SIDE ENTRY PIT	600	900			300	297.221	298.817	1.596	EDCM 601	
74	GRATED SIDE ENTRY PIT	600	900			300	297.004	298.566	1.562	EDCM 601	
161	DOUBLE GRATED SIDE ENTRY PIT	750	900	EX 525	295.451	EX 525	295.451	296.628	1.178	EDCM 604	CONSTRUCT OVER EXISTING PIPE
				300	295.471						
162	JUNCTION PIT	600	900			300	295.709	297.433	1.724	EDCM 605	
163	DOUBLE GRATED SIDE ENTRY PIT	1200	900	300	295.488	EX 525	295.469	296.651	1.182	EDCM 604	CONSTRUCT OVER EXISTING PIPE
164	GRATED PIT	600	900	225	296.536	300	295.52	297.769	2.25	EDCM 605	JUNCTION PIT WITH GRATED COVER
165	GRATED PIT	600	900	225	296.833	225	296.813	298.191	1.378	EDCM 605	JUNCTION PIT WITH GRATED COVER
166	GRATED PIT	600	900			225	297.098	297.946	0.793	EDCM 605	JUNCTION PIT WITH GRATED COVER

No.	REVISION	DATE	DES/DFT	APPROVED
B	PIT 165 TO 166 UPDATED	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

Issued for Approval
Not to be used for construction

Melway Reference
665 E4

Principal
RESIMAX GROUP PTY LTD
2 DREWERY PLACE
MELBOURNE VIC 3000

UrbanDesign and management
Urban Design and Management Pty Ltd
PO Box 468 Sunbury 3429
Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3249
Project Management | Land Development | Civil Engineering | Traffic and Transport Engineering | Urban Design

Designed
M.ROSSITTO

Checked
T.PHILLIPS

Approved
T. MILINKOVIC

Date
AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
PIT SCHEDULE

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-17
Revision: B
Sheet No: 17 of 18
Scale @ A1 0 5 10 20
H1:500, V1:50 0 0.5 1 2

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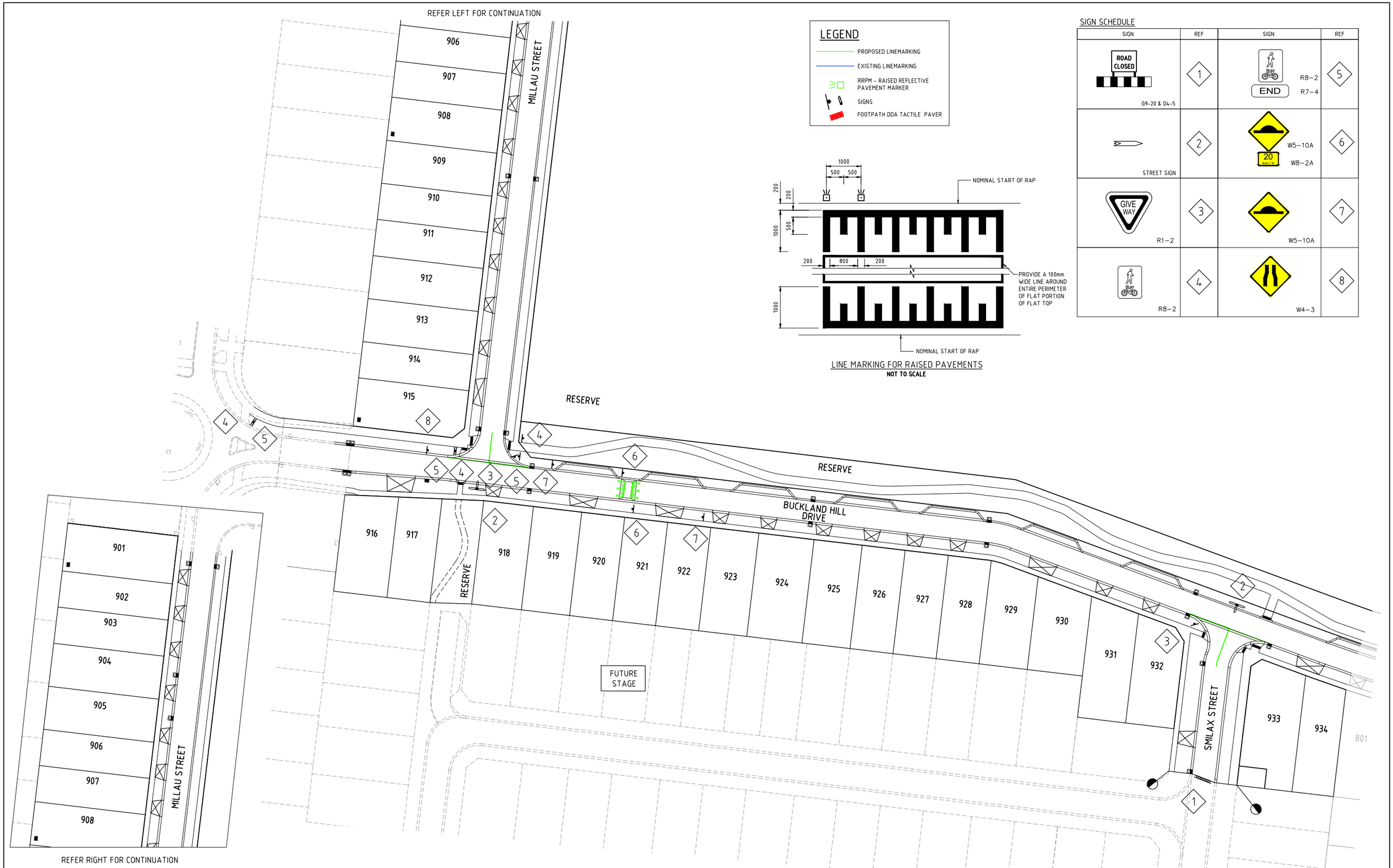

REFER RIGHT FOR CONTINUATION

LEGEND

- PROPOSED LINEMARKING
- EXISTING LINEMARKING
- RRPM - RAISED REFLECTIVE PAVEMENT MARKER
- SIGNS
- FOOTPATH DDA TACTILE PAVER

LINE MARKING FOR RAISED PAVEMENTS
NOT TO SCALE

SIGN SCHEDULE

SIGN	REF	SIGN	REF
ROAD CLOSED G9-20 & D4-5	1	R8-2 END R7-4	5
STREET SIGN	2	W5-10A 20 km/h W8-2A	6
GIVE WAY R1-2	3	W5-10A	7
R8-2	4	W4-3	8

No.	REVISION	DATE	DES/DFT	APPROVED
B	ROAD NARROWS SIGNAGE ADDED (8)	06.10.21	MR	TP
A	ISSUED TO COUNCIL	13.08.21	MR	TP

RESIMAX GROUP
MITCHELL SHIRE COUNCIL

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UrbanDesign and management
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Phone: +61 3 9971 6300 | Fax: +61 3 9971 6399
Office 1, Level 1, 114 Evans Street, Sunbury, VIC, 3429
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Designed M.ROSSITTO
Checked T.PHILLIPS
Approved T. MILINKOVIC
Date AUGUST 2021

NEWBRIDGE SOUTH ESTATE

STAGE 9
MITCHELL SHIRE COUNCIL
SIGNAGE & LINE MARKING PLAN

APPROVED
By Mohammad Sikder at 4:50 pm, Oct 26, 2021

MITCHELL SHIRE COUNCIL
APPROVED PLAN

Drawing No: 18040-09-18
Revision: B
Sheet No: 18 of 18
Scale @ A1 1:500 (0 5 10 20)

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file name 18040-09-18.dwg layout name 18 file location L:\Work\Eng\18040 Newbridge Estate\Stage 9\Drawings