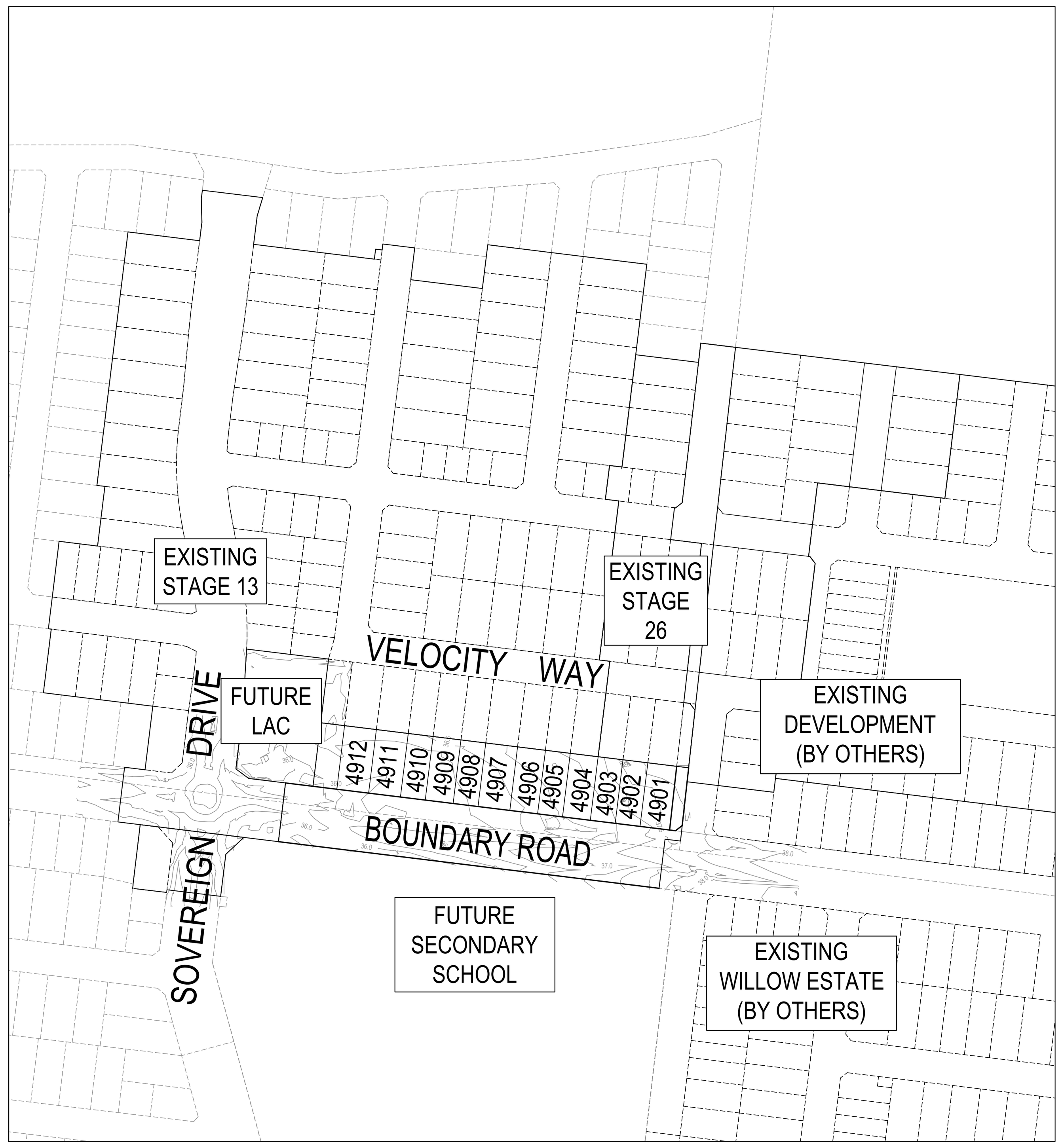
ARMSTRONG

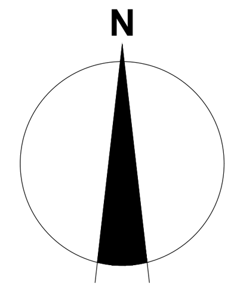
STAGE 49

CITY OF GREATER GEELONG

GENERAL NOTES:

1. THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS AND GREATER GEELONG CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
2. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY 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.
3. THE CONTRACTOR SHALL:
   3.1. COMPLY WITH THE "SAFETY PRECAUTIONS IN TRENCHING OPERATIONS" (CODE OF PRACTICE No.8, 1998)
   3.2. NOTIFY WORK SAFE OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. REDGUM TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED IN ACCORDANCE WITH COUNCIL'S PLANNING PERMIT. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE TREE PROTECTION ZONE OF ANY EXISTING TREE WITHOUT WRITTEN APPROVAL FROM COUNCIL'S ENVIRONMENT DEPARTMENT.
7. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS, WRITTEN DIMENSIONS ONLY SHALL BE USED.
8. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
9. ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES TO BE STRIPPED OF TOPSOIL AND STOCKPILED PRIOR TO EARTHWORKS COMMENCING. THESE AREAS SHALL BE RESURFACED WITH A 150mm LAYER OF TOPSOIL AS SPECIFIED.
10. NO TOPSOIL TO BE REMOVED FROM SITE.
11. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE UNLESS DIRECTED BY THE SUPERINTENDENT.
12. FILLING ON ALLOTMENTS AND UNDER ROAD PAVEMENTS TO HAVE LEVEL 1 SUPERVISION IN ACCORDANCE WITH AS3798-1996. INDIVIDUAL LOT CERTIFICATES ARE TO BE PROVIDED TO THE SUPERINTENDENT.
13. FILLING UNDER DRIVEWAYS AND FOOTPATH IS TO BE APPROVED BY THE SUPERINTENDENT AND CONSTRUCTED IN LAYERS 150mm DEPTH. COMPACTION ACHIEVING A MINIMUM DENSITY RATIO OF 98% (STANDARD) IN ACCORDANCE WITH AS1289 CLAUSE 5.1.1.
14. CUT AND FILL BATTER SLOPES ARE NOT TO EXCEED 1 in 6 UNLESS SHOWN OTHERWISE.
15. ALL DRAINAGE PIPES ARE TO BE SPIGOT-SOCKET RUBBER RING JOINTED UNLESS STATED OTHERWISE.
16. ALL DRAINAGE TRENCHES UNDER PARKING BAYS, DRIVEWAYS, FOOTPATHS AND BEHIND KERB & CHANNEL, SHALL BE BACKFILLED WITH CRUSHED ROCK AS SPECIFIED.
17. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILIZED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
18. PROPERTY INLETS AS PER INFRASTRUCTURE DESIGN MANUAL (IDM) STANDARD DRAWING SD 520 ARE TO BE LOCATED 1.0m FROM LOW SIDE BOUNDARY UNLESS SHOWN OTHERWISE.
19. ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.0m FROM THE SIDE BOUNDARY OR FROM EASEMENT ALONG THE SIDE BOUNDARY UNLESS NOTED OTHERWISE AND CONNECTED DIRECTLY TO UNDERGROUND DRAIN OR PIT. HOUSE DRAIN LOCATION TO BE MARKED (50mm STAMPED IMPRESSION) ON THE TOP OF THE KERB.
20. SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL.
21. CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE EXTENDED TO PROPERTY LINE AND ARE REQUIRED WHEN CONNECTIONS EXTEND UNDER ROAD PAVEMENT, FOOTPATH OR OTHER INFRASTRUCTURE. BOTH KERBS ARE TO BE MARKED (50mm STAMPED IMPRESSION) WITH THE LETTERS E (ELECTRICAL), G (GAS), T (TELEPHONE), W (WATER) AND C (COUNCIL COMMUNICATION) ABOVE CONDUIT LOCATION.
22. ALL SERVICING TRENCHES UNDER ROADS, DRIVEWAYS, FOOTPATHS ETC. ARE TO BE BACKFILLED & COMPACTED WITH F.C.R. IN THE CASE OF TRENCHES UNDER ROADS WHERE BACKFILLING HAS NOT ACHIEVED THE SPECIFIED COMPACTION OR SHOWS EXCESSIVE MOVEMENT UNDER PROOF ROLLING, THE BACKFILLING SHALL BE REMOVED AND REPLACED WITH 2% STABILISED COMPACTED F.C.R.
23. NO COMMUNICATION PITS ARE TO BE LOCATED IN THE FOOTPATH.
24. VEHICULAR CROSSINGS TO BE LOCATED CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. VEHICLE CROSSINGS TO BE 1m FROM PROPERTY BOUNDARY OR EASEMENT UNLESS OTHERWISE SHOWN. VEHICULAR CROSSINGS TO BE CONSTRUCTED AS PER CITY OF GREATER GEELONG "DESIGN NOTES No.4" DATED AUGUST 2012 & IDM STANDARD DRAWINGS SD205 to SD265.
25. ALL PEDESTRIAN CROSSINGS TO BE IN ACCORDANCE WITH INFRASTRUCTURE DESIGN MANUAL SD200.
26. ALL STREET SIGNS TO BE IN ACCORDANCE INFRASTRUCTURE DESIGN MANUAL STANDARD DRAWINGS. STREET SIGNS TO BE ATTACHED TO LIGHT POLES USING 'SINGLE DIRECTION COLLAR' OR '90° RIGHT ANGLE COLLAR' UNLESS SHOWN OTHERWISE.
27. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHOULD BE TO AS1742.2 AND AS1742.1 STANDARD RESPECTIVELY. TEMPORARY LINEMARKING TO BE PLACED DURING MAINTENANCE PERIOD PRIOR TO PLACEMENT OF WEARING COURSE. FINAL LINEMARKING TO BE LONG LIFE ROAD MARKING WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
28. UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED, GRADED, ALL RUBBISH REMOVED AND LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
29. ALL AREAS OF SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURE STRIPS, LOTS AND RESERVES ARE TO BE FULLY GRASSED BY HYDRO MULCHING, WATERED AND MAINTAINED, UNTIL THE END OF MAINTENANCE PERIOD.
30. ALL SUMPS IN PRECAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
31. CITY OF GREATER GEELONG REQUIRES CCTV OF ALL DRAINAGE PIPES AND PITS, PRIOR TO THE ISSUE OF THE STATEMENT OF COMPLIANCE





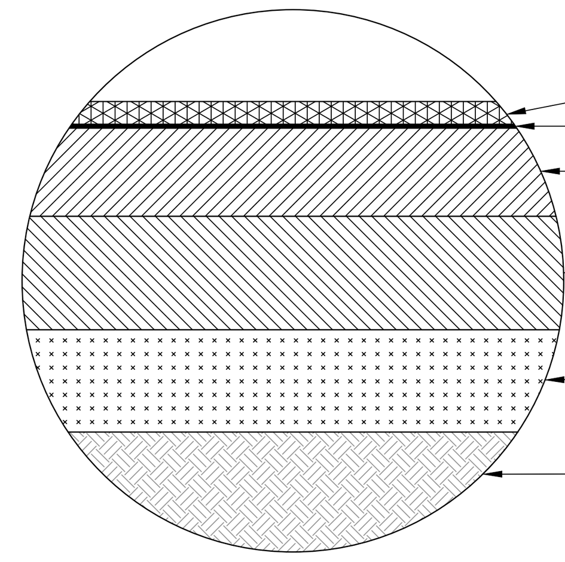
LOCALITY PLAN

MELWAYS REF: 479 F1

1:2000 20 0 20 40 60 80 100 A1
1:4000 A3

Drawing Index

Drawing No.	Drawing Title	Revision
R100	COVER SHEET	0
R200	LAYOUT PLAN	0
R400	ROAD LONGITUDINAL SECTIONS	0
R500	ROAD CROSS SECTIONS - 01	0
R501	ROAD CROSS SECTIONS - 02	0
R502	ROAD CROSS SECTIONS - 03	0
R503	ROAD CROSS SECTIONS - 04	0
R800	SIGNAGE & LINEMARKING PLAN	0



PAVEMENT COMPOSITION
BOUNDARY ROAD
720mm DEPTH
NTS

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT
villawood properties
Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT
ARMSTRONG MT DUNEED

DRAWING TITLE
ARMSTRONG - STAGE 49
COVER SHEET

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
1:2000 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R100	0

P:\2018\180016 - VILLAWOOD ARMSTRONG\180016.49\CIVIL\2. DRAFTING\ACAD\180016.49 - R100 - COVER SHEET.DWG

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

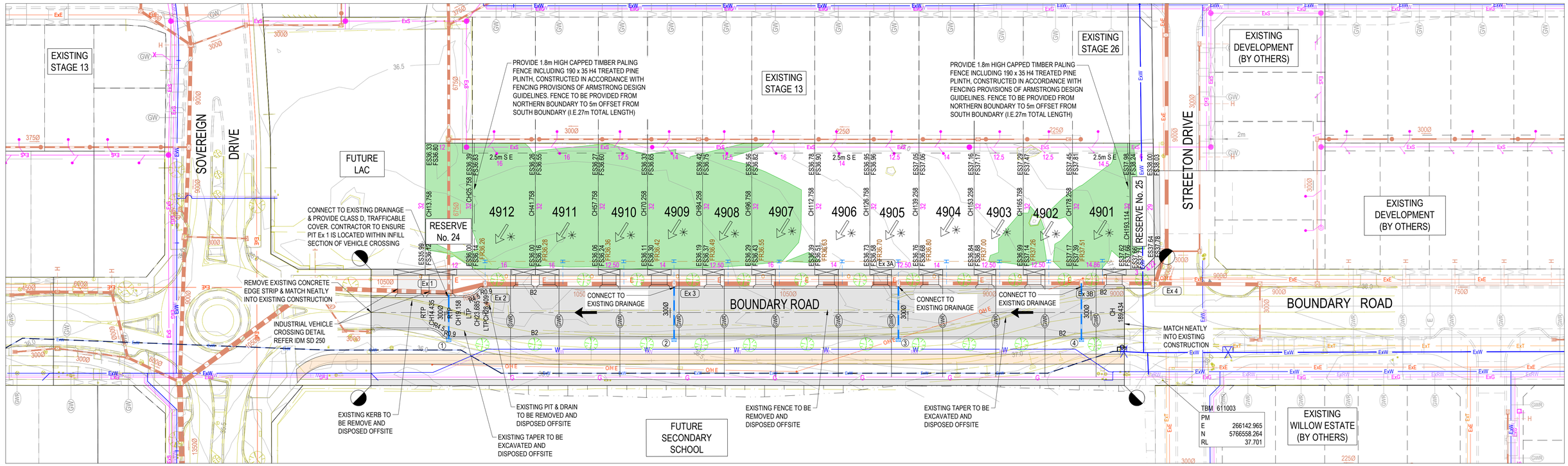
GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 2 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

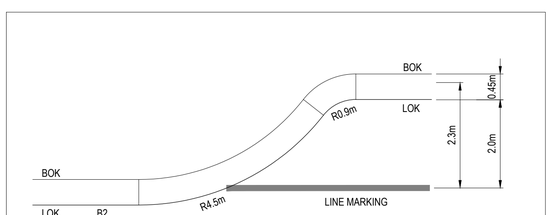
NOTE:
CONTRACTOR TO CONNECT PROPOSE HOUSE CONNECTIONS FOR LOTS 4901 - 4912 TO EXISTING DRAIN



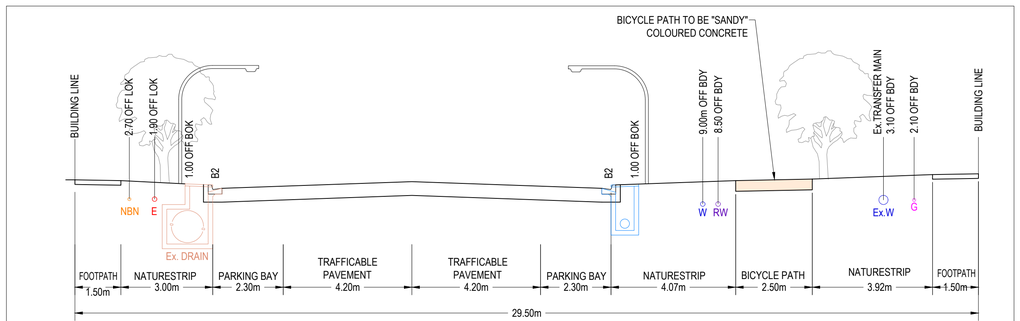
1:500 10 5 0 10 20 A1
1:1000 A3

SERVICES OFFSET SCHEDULE

ROAD NAME	GAS		RECYCLED WATER		POTABLE WATER		Ex.NBN		OPTIC FIBRE		ELEC (LV)		ELEC (HV)		TRANSFER WATER		O/H ELEC	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
BOUNDARY RD	S	2.10	S	8.50	S	9.00	S	Ex.4.40-5.00	N	1.80	N	2.30	N	2.80	S	3.10	S	1.35*
*DENOTES OFFSET MEASURED FROM BACK OF KERB																		



TYPICAL KERB OUTSTAND DETAIL
NTS



TYPICAL SECTION (29.5m ROAD RESERVE)
TWO WAY CROSSFALL
BOUNDARY ROAD

CROSS FALLS
PAVEMENT: 3.33%
FOOTPATH: 2.0% - 2.5%
NATURE STRIP: 2.5% - 8%

NOTES:
1. ALL VEHICLE AND PRAM CROSSING LAYBACKS, TO BE MINIMUM OF 1.0m FROM PITS.
2. ALL PRAM CROSSINGS TO BE A MINIMUM 2.0m FROM VEHICLE CROSSINGS.
3. ALL PRAM CROSSINGS TO BE DDA COMPLIANT.
4. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF LANDSCAPE WORKS.
5. THE USE OF DIRECTIONAL AND HAZARD TACTILE PAVERS MUST ACCORD WITH SECTION 2.2.3.1 OF AS/NZS 1428.4:2002
6. SEWER MAINTENANCE HOLE CONVERTER SLAB OR CONE, TO BE ROTATED TO ENSURE COVER POSITION IS CENTRALLY LOCATED WITHIN FOOTPATH
7. CHAINAGES FOR SETOUT OF PROPERTY INLET POINTS, SERVICING FUTURE LOTS, ARE MEASURED FROM THE DOWNSTREAM PIT
8. CONTRACTOR TO LOCATE ALL EXISTING ASSETS PRIOR TO COMMENCEMENT OF WORKS. ANY DAMAGE TO EXISTING ASSETS TO BE RECTIFIED AT CONTRACTORS EXPENSE.
9. CONTRACTOR TO VERIFY DEPTH OF EXISTING SERVICES, PRIOR TO COMMENCEMENT OF CONSTRUCTION

NOTE: STREET TREE LOCATIONS SHOWN ARE INDICATIVE ONLY. ULTIMATE LOCATION IS TO BE PROVIDED/CONFIRMED BY LANDSCAPE ARCHITECTS

WARNING
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LEGEND - LAYOUT PLAN

- STORMWATER DRAIN, PIT & PROPERTY INLET
- SWALE DRAIN
- SEWER & MAINTENANCE STRUCTURES
- HOUSE DRAIN
- SERVICE CONDUITS
- TACTILE PAVERS
- EXISTING ELECTRICITY (UNDERGROUND)
- EXISTING ELECTRICITY (OVERHEAD)
- EXISTING GAS
- EXISTING OPTIC FIBRE
- EXISTING TELSTRA
- EXISTING WATER
- EXISTING RECYCLED WATER
- EXISTING STORMWATER DRAIN
- EXISTING SEWER
- EXISTING HOUSE DRAIN
- EXISTING SWALE DRAIN
- E141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- TW159.30 TOP OF RETAINING WALL
- BW159.30 BOTTOM OF RETAINING WALL
- RETAINING WALL
- PAVEMENT TREATMENT
- STRUCTURAL FILL > 200mm DEEP
- EX. STRUCTURAL FILL > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND 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
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY
- BUILDING ENVELOPES

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT: villawood properties — Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT: ARMSTRONG MT DUNEED

DRAWING TITLE: ARMSTRONG - STAGE 49 LAYOUT PLAN

STATUS: ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R200	0

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 3 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

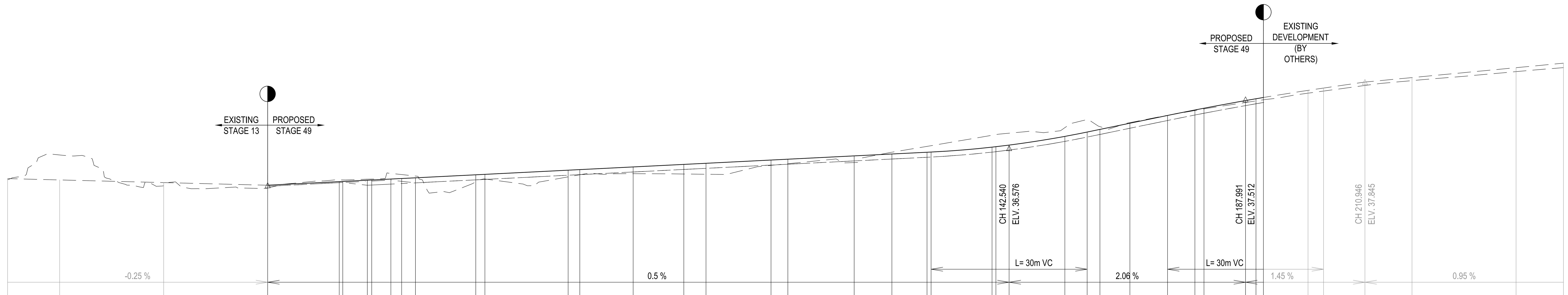
Certification No: 13902

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- FUTURE DESIGN LINE
- LEFT BACK OF KERB
- RIGHT BACK OF KERB

1:500 10 5 0 10 20 A1
1:1000 HORIZONTAL A3

1:50 1 0.5 0 1 2 A1
1:100 VERTICAL A3



VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL33

CHAINAGE	DESIGN CENTRELINE	LEFT BACK OF KERB	RIGHT BACK OF KERB	EXISTING SURFACE	CENTRELINE DEPTH	
-50.000	35.990			35.973	-0.017	
-40.000	35.965			36.445	0.48	
-20.000	35.914			35.852	-0.062	
0.000	35.863	35.843	35.843	35.809	-0.054	
13.758	35.932	35.912	35.912	35.965	0.033	RTP
14.435	35.935	35.915	35.915	35.965	0.029	
19.158	35.959	35.939	35.862	35.979	0.021	RTP
20.000	35.963	35.943	35.866	35.981	0.018	
23.685	35.981	35.961	35.885	36.090	0.109	LTP
25.758	35.992	35.938	35.895	36.068	0.076	
28.409	36.005	35.908	35.908	36.040	0.035	LTP
40.000	36.063	35.966	35.966	35.928	-0.135	
41.758	36.072	35.975	35.975	35.983	-0.089	
57.758	36.152	36.055	36.055	36.024	-0.128	
60.000	36.163	36.066	36.066	36.064	-0.099	
70.258	36.214	36.118	36.118	36.085	-0.13	
80.000	36.263	36.166	36.166	36.079	-0.184	
84.258	36.284	36.188	36.188	36.074	-0.21	
96.758	36.347	36.25	36.25	36.244	-0.103	
100.000	36.363	36.266	36.266	36.276	-0.087	
112.758	36.427	36.33	36.33	36.299	-0.128	
120.000	36.463	36.366	36.366	36.497	0.034	
126.758	36.497	36.4	36.4	36.610	0.113	
127.540	36.501	36.404	36.404	36.623	0.122	
139.258	36.595	36.498	36.498	36.822	0.227	
140.000	36.603	36.507	36.507	36.835	0.232	
142.540	36.634	36.539	36.539	36.863	0.229	
153.258	36.801	36.705	36.705	36.969	0.168	
157.540	36.885	36.788	36.788	37.123	0.238	
160.000	36.935	36.839	36.839	36.989	0.053	
165.758	37.054	36.957	36.957	37.066	0.012	
172.991	37.203	37.106	37.106	37.205	0.002	
178.258	37.309	37.212	37.212	37.298	-0.01	
180.000	37.342	37.246	37.246	37.329	-0.013	
187.991	37.489	37.392	37.392	37.452	-0.037	
190.000	37.524	37.427	37.427	37.483	-0.041	
191.434	37.548	37.452	37.452	37.504	-0.044	
200.000	37.685			37.631	-0.054	
202.991	37.729			37.672	-0.058	
210.946	37.845			37.779	-0.065	
220.000	37.931			37.872	-0.058	
240.000	38.121			38.045	-0.076	
249.115	38.207			38.122	-0.086	

BOUNDARY ROAD LONGITUDINAL SECTION

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works

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BOUNDARY ROAD DESIGN LINE

CHAINAGE	EASTING	NORTHING	BEARING	
0.000	265945.366	5766599.827	96°59'29"	IP
100.000	266044.623	5766587.655	96°59'29"	
191.434	266135.377	5766576.526	96°59'29"	IP

BOUNDARY ROAD IP DETAILS

IP 1

coordinate = 265945.3664 5766599.8274
chainage = 0.0000

IP 2

coordinate = 266135.3765 5766576.5256
chainage = 191.4336

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT

villawood properties
Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT

ARMSTRONG MT DUNEED

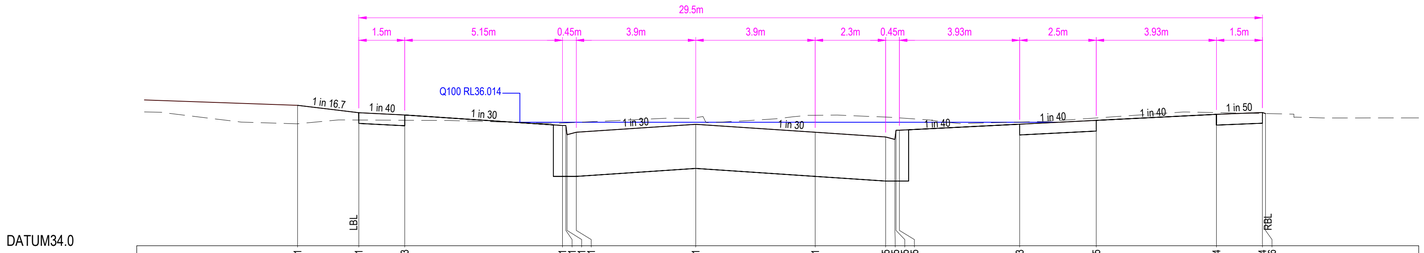
DRAWING TITLE

ARMSTRONG - STAGE 49
ROAD LONGITUDINAL SECTIONS

STATUS

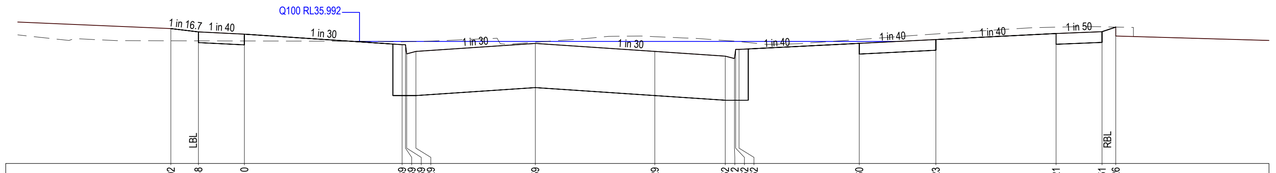
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R400	0



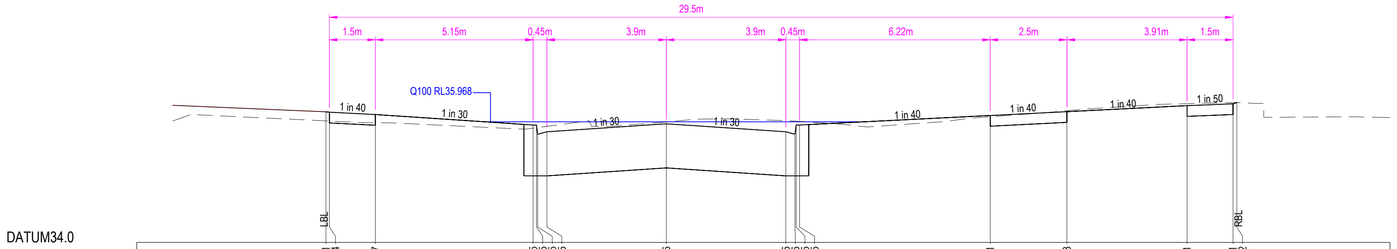
DATUM34.0												
DESIGN SURFACE	36.291	36.171	36.133	35.961	35.961	35.811	35.851	35.981	35.851	35.775	35.735	35.685	35.885	35.983	36.045	36.144	36.174	36.156
EXISTING SURFACE	35.990	36.051	36.047	36.002	36.004	36.005	36.012	36.090	36.129	36.100	36.091	36.090	36.086	36.018	36.085	36.173	36.158	36.156
OFFSET	-13.000	-11.000	-9.500	-4.350	-4.240	-4.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	18.602

LTPCH 23.685



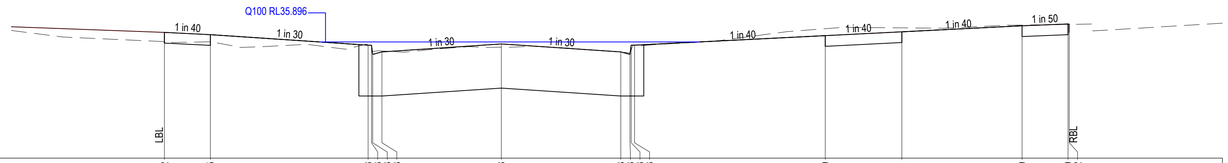
DATUM34.0												
DESIGN SURFACE	36.202	36.148	36.110	35.939	35.939	35.788	35.829	35.959	35.829	35.752	35.712	35.662	35.662	35.960	36.023	36.121	36.151	36.226
EXISTING SURFACE	36.002	36.001	35.999	35.985	35.987	35.987	35.991	35.979	36.069	36.007	35.997	35.995	35.991	36.024	36.114	36.225	36.230	36.226
OFFSET	-11.900	-11.000	-9.500	-4.350	-4.240	-4.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	18.950

RTPCH 19.158



DATUM34.0												
DESIGN SURFACE	36.131	36.124	36.087	35.915	35.915	35.765	35.869	35.935	35.805	35.765	35.915	35.915	36.071	36.133	36.231	36.261	36.282
EXISTING SURFACE	35.983	35.980	35.951	35.864	35.871	35.874	35.883	35.965	35.986	35.980	35.979	35.975	36.050	36.149	36.263	36.281	36.282
OFFSET	-11.113	-11.000	-9.500	-4.350	-4.240	-4.200	-3.900	0.000	3.900	4.200	4.240	4.300	10.575	13.075	17.000	18.500	18.625

RTPCH 14.435



DATUM34.0												
DESIGN SURFACE	36.052	36.015	35.843	35.843	35.693	35.733	35.863	35.733	35.693	35.843	35.843	35.999	36.061	36.159	36.189	36.182
EXISTING SURFACE	35.898	35.898	35.825	35.735	35.729	35.749	35.809	35.732	35.725	35.770	35.848	36.112	36.126	36.171	36.182	36.182
OFFSET	-11.000	-9.500	-4.350	-4.240	-4.200	-3.900	0.000	3.900	4.200	4.240	4.350	10.575	13.075	17.000	18.500	18.541

CH 0.000

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 4 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- Q100 LEVEL
- SELECT FILL

1:100 2 1 0 2 4 A1
1:200 A3
HORIZONTAL

1:50 1 0.5 0 1 2 A1
1:100 A3
VERTICAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT: villawood properties — Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT: ARMSTRONG MT DUNEED

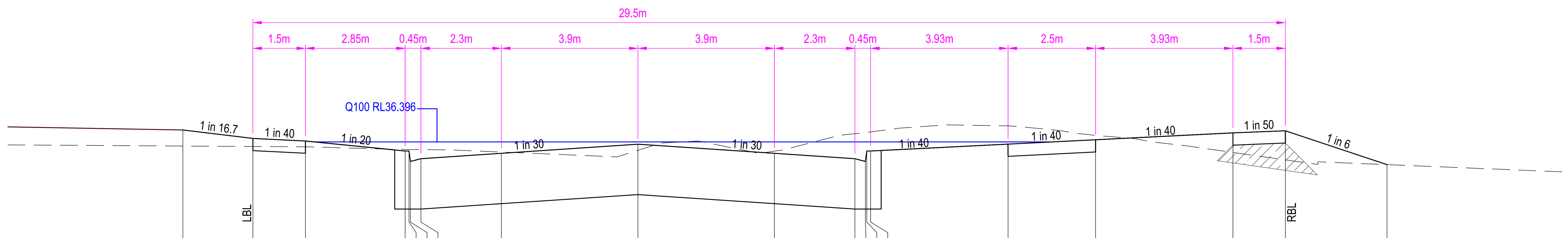
DRAWING TITLE: ARMSTRONG - STAGE 49
ROAD CROSS SECTIONS - 01
BOUNDARY ROAD

STATUS: ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021

PROJECT No.	DRAWING No.	REVISION
180016.49	R500	0

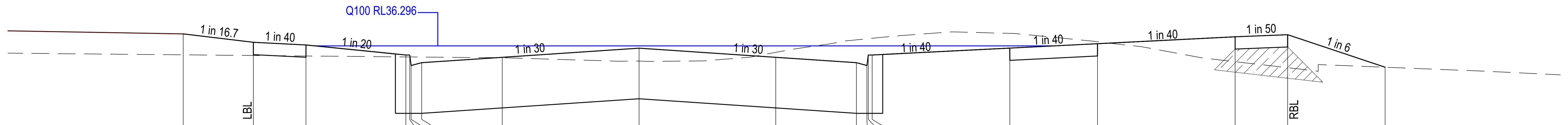
P:\2018\180016 - VILLAWOOD ARMSTRONG\180016.49\CIVIL\2. DRAFTING\ACAD\180016.49 - R500 - ROAD CROSS SECTIONS.DWG



DATUM35.0

DESIGN SURFACE	36.566	36.446	36.409	36.266	36.266	36.116	36.156	36.233	36.363	36.233	36.156	36.116	36.266	36.266	36.364	36.427	36.525	36.555	36.071
EXISTING SURFACE	36.337	36.331	36.326	36.288	36.288	36.288	36.286	36.251	36.276	36.264	36.514	36.529	36.531	36.539	36.626	36.489	36.245	36.139	36.071
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	21.403

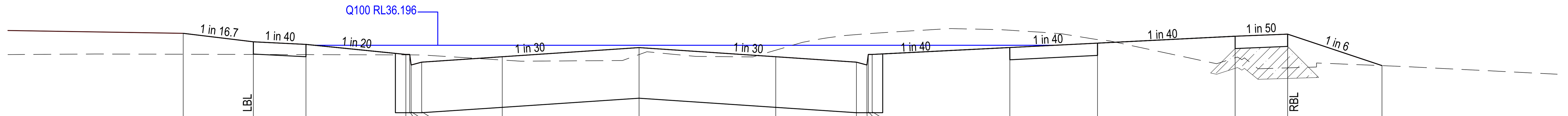
CH 100.000



DATUM35.0

DESIGN SURFACE	36.466	36.346	36.309	36.166	36.166	36.016	36.056	36.133	36.263	36.133	36.056	36.016	36.166	36.166	36.264	36.327	36.425	36.455	35.992
EXISTING SURFACE	36.168	36.159	36.152	36.139	36.138	36.138	36.137	36.128	36.079	36.204	36.381	36.396	36.398	36.404	36.474	36.355	36.071	35.986	35.992
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	21.278

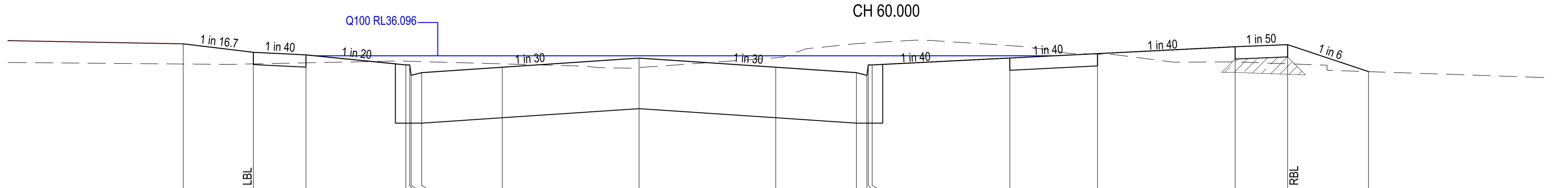
CH 80.000



DATUM35.0

DESIGN SURFACE	36.366	36.246	36.209	36.066	36.066	35.916	35.956	36.033	36.163	36.033	35.956	35.916	36.066	36.066	36.164	36.227	36.325	36.355	35.907
EXISTING SURFACE	36.069	36.066	36.064	36.060	36.060	36.059	36.059	35.986	36.064	36.127	36.349	36.361	36.362	36.366	36.411	36.278	36.019	35.874	35.907
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	21.189

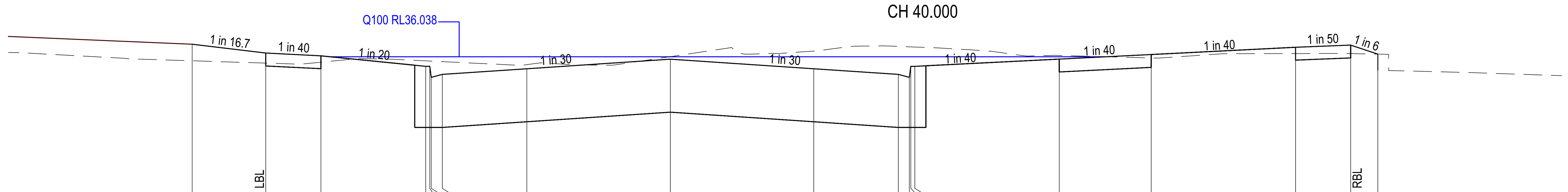
CH 60.000



DATUM34.0

DESIGN SURFACE	36.266	36.146	36.109	35.966	35.966	35.816	35.856	35.933	36.063	35.933	35.856	35.816	35.966	35.966	36.064	36.127	36.225	36.255	35.871
EXISTING SURFACE	35.979	35.981	35.996	36.019	36.018	36.017	36.013	35.981	35.928	36.067	36.269	36.279	36.281	36.284	36.242	36.120	36.009	35.982	35.871
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	20.807

CH 40.000



DATUM34.0

DESIGN SURFACE	36.208	36.088	36.051	35.908	35.908	35.758	35.798	35.875	36.005	35.875	35.798	35.758	35.908	35.908	36.007	36.069	36.167	36.197	36.074
EXISTING SURFACE	35.983	35.952	35.964	35.983	35.980	35.979	35.972	35.931	36.040	36.116	36.180	36.174	36.173	36.171	36.056	36.022	36.082	36.081	36.074
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	19.238

LTPCH 28.409

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 5 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- Q100 LEVEL
- SELECT FILL

1:100 / 1:200 — 2 1 0 2 4 — A1 / A3 — HORIZONTAL

1:50 / 1:100 — 1 0.5 0 1 2 — A1 / A3 — VERTICAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

WARNING

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P:\2018\180016 - VILLAWOOD ARMSTRONG\180016.49\CIVIL\2. DRAFTING\ACAD\180016.49 - R500 - ROAD CROSS SECTIONS.DWG

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT
villawood properties
Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT
ARMSTRONG MT DUNEED

DRAWING TITLE
ARMSTRONG - STAGE 49
ROAD CROSS SECTIONS - 02
BOUNDARY ROAD

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	**R501**	**0**

CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 6 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

LEGEND

- EXISTING SURFACE (dashed line)
- DESIGN LINE
- Q100 LEVEL
- SELECT FILL

1:100 2 1 0 2 4 A1
1:200 A3
HORIZONTAL

1:50 1 0.5 0 1 2 A1
1:100 A3
VERTICAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

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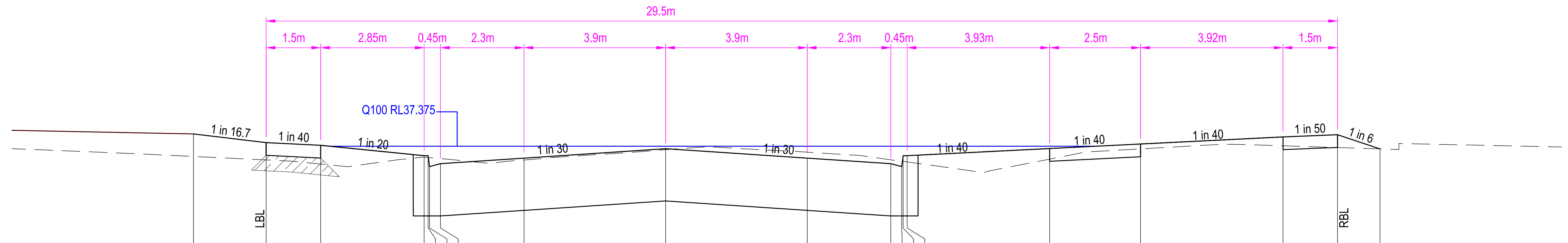
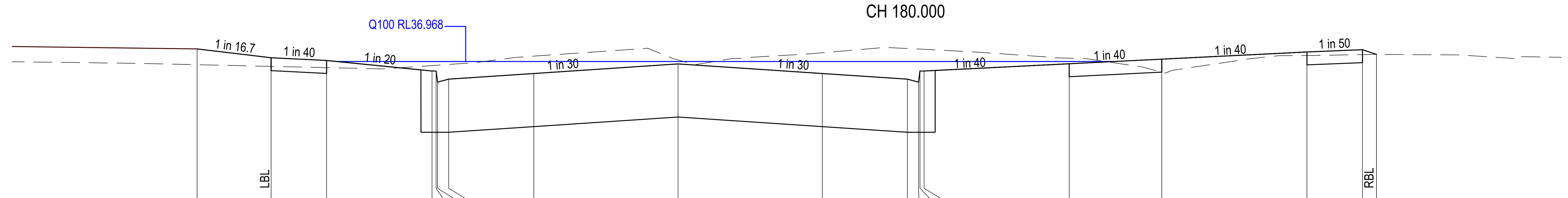
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



DATUM36.0

DESIGN SURFACE	37.546	37.426	37.388	37.246	37.246	37.096	37.136	37.212	37.342	37.212	37.136	37.096	37.246	37.246	37.344	37.406	37.504	37.534	37.339
EXISTING SURFACE	37.235	37.187	37.130	37.225	37.220	37.219	37.206	37.187	37.329	37.294	37.189	37.170	37.168	37.160	37.198	37.339	37.382	37.358	37.339
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	19.672

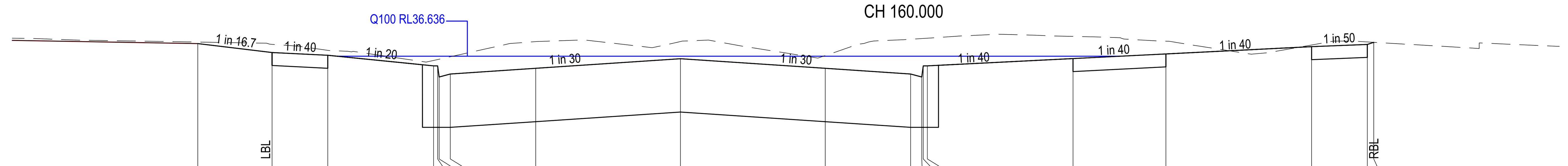
CH 180.000



DATUM35.0

DESIGN SURFACE	37.139	37.019	36.981	36.839	36.839	36.689	36.729	36.805	36.935	36.805	36.729	36.689	36.839	36.839	36.937	36.999	37.097	37.127	37.064
EXISTING SURFACE	36.925	36.902	36.885	36.912	36.916	36.917	36.928	37.041	36.989	37.086	37.144	37.137	37.136	37.134	37.012	36.822	37.049	37.061	37.064
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	18.879

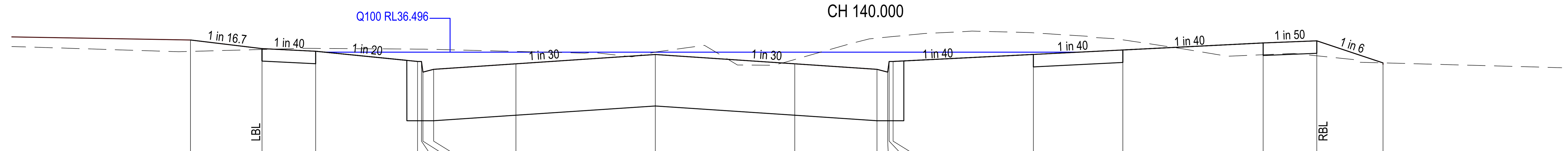
CH 160.000



DATUM35.0

DESIGN SURFACE	36.807	36.687	36.649	36.507	36.507	36.357	36.397	36.473	36.603	36.473	36.397	36.357	36.507	36.507	36.605	36.667	36.765	36.795	36.824
EXISTING SURFACE	36.828	36.797	36.717	36.579	36.592	36.596	36.629	36.834	36.835	36.646	36.866	36.875	36.877	36.880	36.904	36.840	36.788	36.829	36.824
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	18.673

CH 140.000



DATUM35.0

DESIGN SURFACE	36.666	36.546	36.509	36.366	36.366	36.216	36.256	36.333	36.463	36.333	36.256	36.216	36.366	36.366	36.464	36.527	36.625	36.655	36.346
EXISTING SURFACE	36.507	36.534	36.549	36.539	36.538	36.538	36.535	36.506	36.497	36.394	36.693	36.707	36.709	36.715	36.767	36.670	36.461	36.445	36.346
OFFSET	-13.000	-11.000	-9.500	-6.650	-6.540	-6.500	-6.200	-3.900	0.000	3.900	6.200	6.500	6.540	6.650	10.575	13.075	17.000	18.500	20.353

CH 120.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT
villawood properties
Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT
ARMSTRONG MT DUNEED

DRAWING TITLE
ARMSTRONG - STAGE 49
ROAD CROSS SECTIONS - 03
BOUNDARY ROAD

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	**PROJECT MANAGER**	**DATE FIRST ISSUE**
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	**DRAWING No.**	**REVISION**
180016.49	R502	0

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CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 7 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

LEGEND

- EXISTING SURFACE
- DESIGN LINE
- Q100 LEVEL
- SELECT FILL

1:100 2 1 0 2 4 A1
1:200 A3
HORIZONTAL

1:50 1 0.5 0 1 2 A1
1:100 A3
VERTICAL

NOTE
SELECT STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS @ 45° WHERE CONSTRUCTED ABOVE NATURAL SURFACE

NOTE
CROSS SECTIONS LBL & RBL LABELS REFER TO LEFT AND RIGHT TITLE BOUNDARY RESPECTIVELY, READ IN ASCENDING ORDER ALONG THE RELEVANT LONG SECTION CHAINAGES

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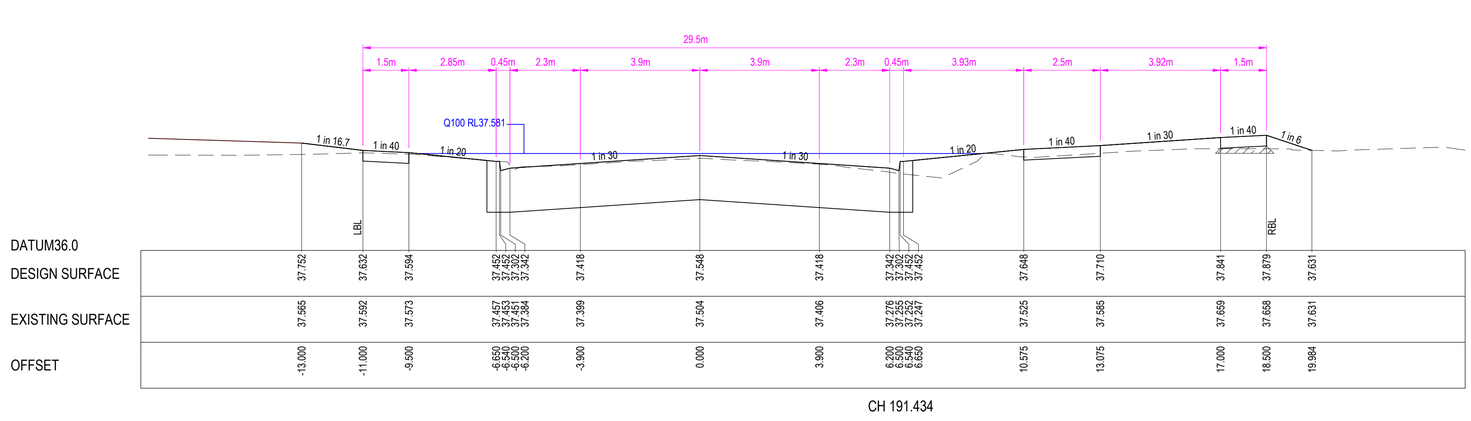
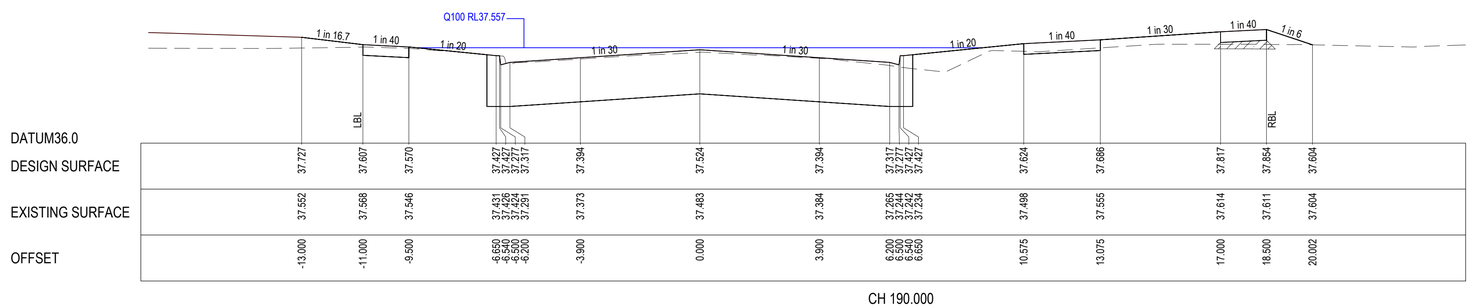
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



CH 191.434



CH 190.000

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT: villawood properties — Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

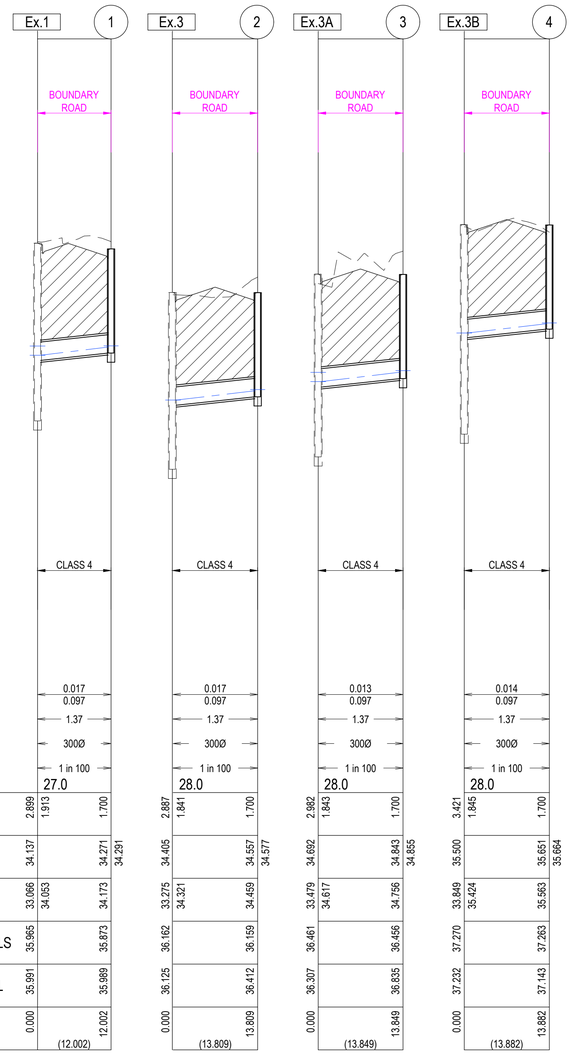
PROJECT: ARMSTRONG MT DUNEED

DRAWING TITLE: ARMSTRONG - STAGE 49
ROAD CROSS SECTIONS - 04
BOUNDARY ROAD

STATUS: ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R503	0

P:\20180180016 - VILLAWOOD ARMSTRONG\180016.49\CIVIL\2. DRAFTING\ACAD\180016.49 - R500 - ROAD CROSS SECTIONS.DWG



CITY OF GREATER GEELONG TO STAMP HERE UPON APPROVAL

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 8 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

NOTE: THIS IS NOT A BUILDING APPROVAL

Certification No: 13902

REINFORCED CONCRETE PIPES

ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS.3725-1989, LOADS ON BURIED PIPES. CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPAIRED AT THE CONTRACTORS COST.

NOTES

1. PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm NOM. SIZE CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 98% MODIFIED RELATIVE COMPACTION IN 150mm THICK LAYER FOR THE FOLLOWING:
   - BENEATH DRIVEWAY CROSSOVERS TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
   - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
2. ALL PIPES UNDER ROADS SHALL BE BACKFILLED WITH 2% STABILISED SAND TO SPRINGLINE. ABOVE THIS POINT, PROVIDE 20mm NOMINAL SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 98% MODIFIED COMPACTION IN 150mm MAXIMUM LAYER.
3. ALL DRAINAGE PIPES TO BE SPIGOT-SOCKET RUBBER RING JOINTED (RRJ).
4. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
5. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.
6. ALL SPLAYED SECTIONS OF PIPE ARE TO BE BACKFILLED WITH 2% STABILIZED SAND, 300mm ABOVE TOP OF PIPE

PIT SCHEDULE

PIT NUMBER	TYPE	INTERNAL WIDTH (mm)	INTERNAL LENGTH (mm)	INLET DIA. (mm)	INLET INVERT RL (m)	OUTLET DIA. (mm)	OUTLET INVERT RL (m)	COVER LEVEL (m)	DEPTH (m)	STANDARD DRAWING	REMARKS
1	SIDE ENTRY PIT	600	900			300	34.173	35.873	1.700	IDM SD 430	
2	SIDE ENTRY PIT	600	900			300	34.459	36.159	1.700	IDM SD 430	
3	SIDE ENTRY PIT	600	900			300	34.756	36.456	1.700	IDM SD 430	
4	SIDE ENTRY PIT	600	900			300	35.563	37.263	1.700	IDM SD 430	
Ex 1	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 1050	Ex. 1050	33.066	Ex. 1050	33.066	35.965	2.899	IDM SD 420	PIT TO BE MODIFIED TO JUNCTION PIT AND PROVIDED WITH CLASS D, TRAFFICABLE COVER
				300	34.053						
Ex 2	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 900	Ex. 1050	33.104	Ex. 1050	33.104	35.921	2.817	IDM SD 430	PIT TO BE ADJUSTED TO FSL AND PROVIDED WITH PERMANENT COVER
Ex 3	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 900	Ex. 1050	33.275	Ex. 1050	33.275	36.162	2.887	IDM SD 430	PIT TO BE ADJUSTED TO FSL AND PROVIDED WITH PERMANENT COVER
				300	34.321						
Ex 3A	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 900	Ex. 900	33.479	Ex. 1050	33.479	36.461	2.982	IDM SD 430	PIT TO BE ADJUSTED TO FSL AND PROVIDED WITH PERMANENT COVER
				300	34.617						
Ex 3B	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 900	Ex. 900	33.848	Ex. 900	33.848	37.246	3.398	IDM SD 430	PIT TO BE ADJUSTED TO FSL AND PROVIDED WITH PERMANENT COVER
				300	35.424						
Ex 4	EXISTING SIDE ENTRY PIT	Ex 1350	Ex 1950	Ex. 900	35.323	Ex. 900	34.012	37.665	3.653	IDM SD 430	PIT TO BE ADJUSTED TO FSL AND PROVIDED WITH PERMANENT COVER

NOTE:

IN ACCORDANCE WITH C.O.G.G DESIGN NOTE 8 (DATED JANUARY 2020) EXISTING DRAINAGE LOCATED WITHIN PROPOSED STAGE WORKS ARE REQUIRED TO BE RE-CCTV'D TO CONFIRM NO CONSEQUENTIAL DAMAGE HAS OCCURRED

NOTE:

PIT COVERS ARE TO BE PROVIDED IN ACCORDANCE WITH CITY OF GREATER GEELONG DESIGN NOTE 13. ALL PITS WITHIN ROAD RESERVE ARE TO BE CLASS C FIBREGLASS REINFORCED PLASTIC (FRP) UNLESS AGREED OTHERWISE.

LEGEND

- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRUALIC GRADE LINE
- CRUSHED ROCK BACKFILL

1:500 10 5 0 10 20 A1
1:1000 A3
HORIZONTAL

1:50 1 0.5 0 1 2 A1
1:100 A3
VERTICAL

WARNING
BEWARE OF UNDERGROUND & OVERHEAD SERVICES
The locations of underground & overhead services are approximate only & their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REVISION	DATE	ISSUE DESCRIPTION	DRAWN	DESIGNED	APPROVED
0	03/12/21	ISSUED FOR CONSTRUCTION	K.MCKELVIE	M.TROUNCE	T.PALIOS
C	30/11/21	COUNCIL COMMENTS DATED 26/11/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
B	04/11/21	COUNCIL COMMENTS DATED 14/10/21	K.MCKELVIE	M.TROUNCE	T.PALIOS
A	17/09/21	ISSUED FOR APPROVAL	K.MCKELVIE	M.TROUNCE	T.PALIOS

CLIENT: villawood properties — Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT: ARMSTRONG MT DUNEED

DRAWING TITLE: ARMSTRONG - STAGE 49
DRAINAGE LONG SECTIONS
& PIT SCHEDULE

STATUS: ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
AS SHOWN	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R600	0

P:\2018\180016 - VILLAWOOD ARMSTRONG\180016.49\CIVIL\2. DRAFTING\ACAD\180016.49 - R600 - DRAINAGE LONG SECTIONS.DWG

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PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

Endorsed Plan
Planning Permit No: PP-496-2012
Sheet 9 of 9
Approved By Daniel Cromberge
Approved Date 7/12/2021

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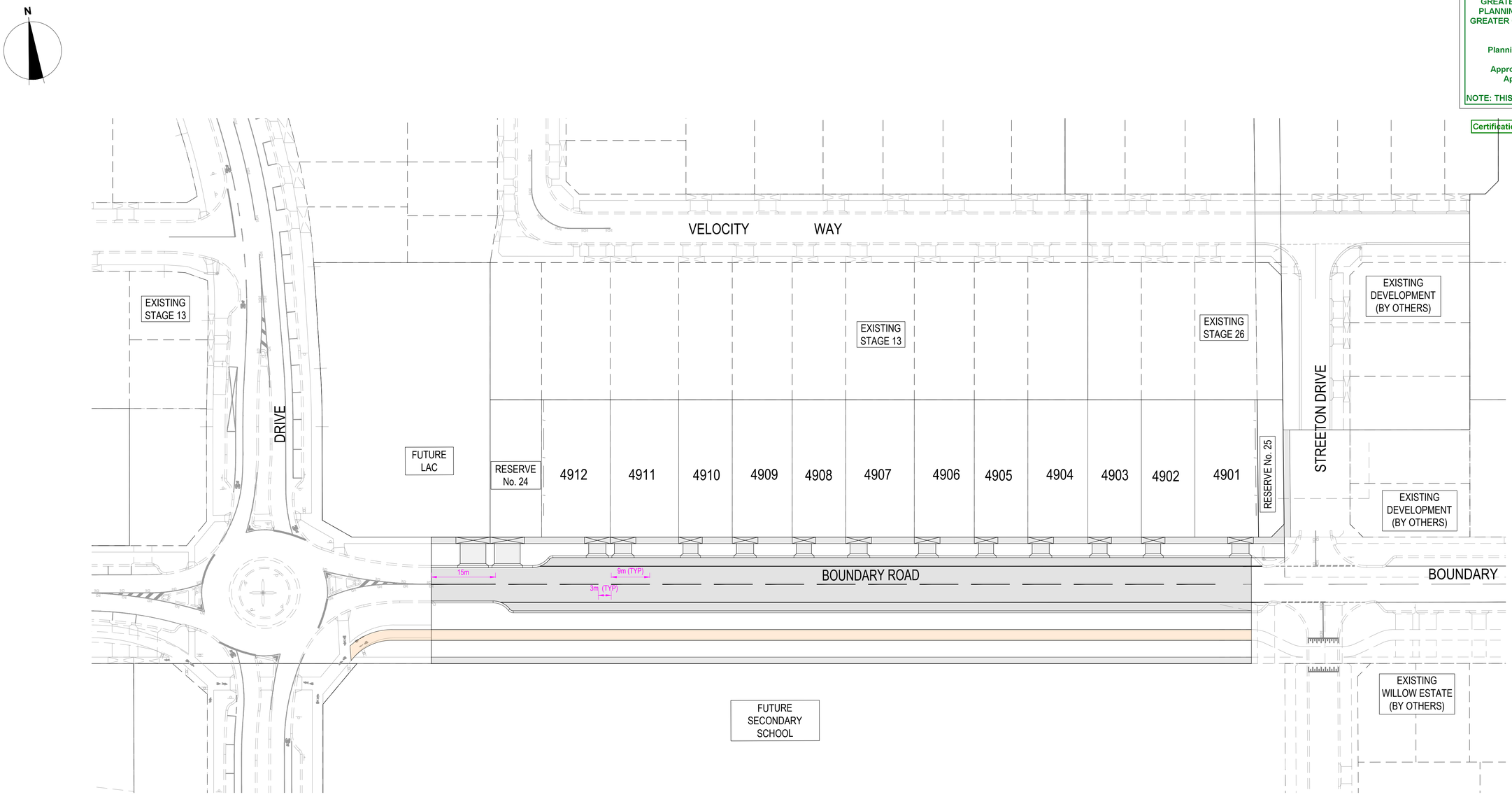
Certification No: 13902



SIGNAGE & LINEMARKING NOTES:

1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPM'S AT MAX 6m SPACING.
2. RRPM'S TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
3. ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
4. ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 - SIGNS & MARKINGS.
5. ALL SIGN POSTS TO BE SLEEVED IN ACCORDANCE WITH COGG SD CGG710 - SIGN POSTS.
6. ALL LINEMARKING TO BE THERMOPLASTIC PERMANENT PAINT.
7. ALL STREET HYDRANTS TO BE IDENTIFIED IN ACCORDANCE WITH C.F.A. DOCUMENT - IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES, PUBLISHED JULY 2019 INCLUDING INSTALLATION OF BLUE RAISED REFLECTIVE PAVEMENT MARKERS & PAINTED WHITE REFLECTIVE TRIANGLES.

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1:500 10 5 0 10 20 A1
1:1000 A3

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CLIENT
villawood properties
Communities Designed for Living

creo CONSULTANTS
Suite 1, 2 Bloomsbury Street
Geelong, VIC, Australia 3220

PROJECT
ARMSTRONG
MT DUNEED

DRAWING TITLE
ARMSTRONG - STAGE 49
SIGNAGE & LINEMARKING PLAN

STATUS
ISSUED FOR CONSTRUCTION

SCALE AT A1	DRAWN	DESIGNED
1:500 @ A1	K.MCKELVIE	K.MCKELVIE
PROJECT ENGINEER	PROJECT MANAGER	DATE FIRST ISSUE
M.TROUNCE	M.TROUNCE	OCTOBER 2021
PROJECT No.	DRAWING No.	REVISION
180016.49	R800	0