REDSTONE ESTATE
STAGE 18B
VILLAWOOD PROPERTIES

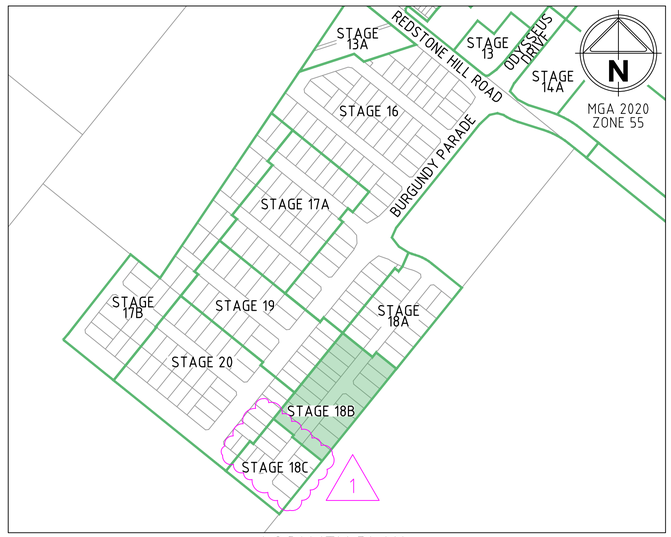
HUME CITY COUNCIL GENERAL NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH V.P.A. AND HUME CITY COUNCIL STANDARD DRAWINGS, SPECIFICATIONS, APPROVED PLANS AND TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORKS WITH A PRE-COMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE CONSULTANT AND THE CONTRACTOR BEFORE WORKS COMMENCE. A SITE MANAGEMENT PLAN IS TO BE SUBMITTED PRIOR TO COMMENCEMENT OF WORKS AND PRIOR TO AN ONSITE PRE-COMMENCEMENT MEETING.
3. 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.
4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 AND O.H.S. REGULATIONS 2007 HAVE BEEN AND WILL BE COMPLIED WITH.
5. 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.
6. THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY WORKS.
7. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE SERVICES ARE TO BE LOCATED AND EXPOSED/PROVED PRIOR TO COMMENCEMENT OF WORKS, AND THE RELEVANT AUTHORITIES NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO THE COMMENCEMENT OF THE WORKS.
8. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
9. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.).
10. ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA - MGA 2020 ZONE 55
11. THE CONTRACTOR MUST ARRANGE THE REQUISITE INSPECTIONS OF THE WORKS WITH THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE AS PER THE HOLD POINTS IN THE V.P.A. MANUAL AND HUME CITY COUNCIL SPECIFICATIONS.
12. FILL AREAS TO BE STRIPPED OF TOPSOIL, FILLED AND TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLAN. FILLING IS TO BE CLEAN CLAY COMPACTED TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
13. FILLING TO COMPLY WITH A.S.3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
14. 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 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL IF REQUIRED PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
15. 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.
16. NO TREE OR NATIVE VEGETATION IS TO BE DISTURBED OR REMOVED WITHOUT PRIOR APPROVAL FROM COUNCILS SUSTAINABLE ENVIRONMENT DEPARTMENT. ANY TREES REMOVED, VEGETATION OR OTHER MATERIALS ARE NOT TO BE BURNT ON SITE.
17. BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 1.5m DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
18. THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES / FENCES AND FOR ANY RETAINING WALLS OVER 1.0m IN HEIGHT.
19. ANY INFRASTRUCTURE DAMAGE DURING THE DEFECTS LIABILITY PERIOD IS THE RESPONSIBILITY OF THE DEVELOPER OR HIS REPRESENTATIVE AND IS TO BE REINSTATED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER OR HIS REPRESENTATIVE.
20. PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURE STRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 1:5 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100MM LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS), LIGHTLY COMPACTED AND HYDRO MULCHED.
    HYDROMULCH AND SEED MIX TO BE:
    - 40KG/HA KIKUYU
    - 200KG/HA TURF TYPE PERENNIAL RYE
    - 100KG/HA CREEPING RED FESCUE
    - 1,500KG/HA OF CELLULOSE FIBRE
    - SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES. (E.G. ORGANIC GAUR TACKIFIERS @ 20 - 30 KG/HA, BASED ON, SITE CONDITIONS).

    GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
21. FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
22. ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
23. ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
24. 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 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003. ALL SERVICE CONDUITS TRENCHES UNDER FOOTPATH, VEHICULAR CROSSINGS, PARKING BAYS AND WITHIN 750MM OF PARKING BAYS TO BE BACKFILLED WITH CLASS 3 CRUSHED ROCK.
25. 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 DIAMETER ARE TO BE RUBBER RING JOINTED. INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIAMETER.
26. WHERE NEW ASPHALT, CONCRETE KERB & CHANNEL, PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
27. ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
28. ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
29. AT THE COMPLETION OF ALL WORKS, ALL RUBBISH, DEBRIS AND SURPLUS SPOIL SHALL BE REMOVED AND THE SITE SHALL BE CLEARED TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
30. ALL DRAINS BEHIND KERB AND CHANNEL SHALL BE BACKFILLED TO MATCH PAVEMENT SUBGRADE LEVEL WITH 20mm CLASS 3 F.C.R. COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S. 1289.5.2.1-2003. ALL DRAINS, SEWERS, GAS & WATER MAINS LAID THROUGH THE ROAD PAVEMENT (EXCEPT CONDUITS) ARE TO BE BACKFILLED WITH 20mm CLASS 2 FCR COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE MODIFIED COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.2.1-2003.
31. PAVEMENT DEPTH SPECIFIED IS A MINIMUM DEPTH AND MAY BE VARIED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE. SOFT SPOTS SHALL BE EXCAVATED TO A PROOF ROLLED BASE AND BACKFILLED WITH APPROVED MATERIAL COMPACTED IN 150mm LAYERS TO ACHIEVE TO A DENSITY NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY VALUE DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH A.S.1289.5.1.1-2003.
32. ALL EXISTING ASSETS AFFECTED BY THE WORKS; E.G. SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
33. PRIOR TO THE COMPLETION OF THE WORKS 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.B. & E.S.B). MARKINGS TO BE VIA BLUE PAVEMENT MARKER AND A (RED TOPPED) WHITE POST.
34. AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD202.
35. ALL TABLE DRAINS AND VERGES ARE TO BE REINSTATED UPON COMPLETION OF WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
36. ALL TRAFFIC CONTROL MEASURES, SIGNS AND LINEMARKING SHALL BE IN ACCORDANCE WITH A.S.1742 - 1, 2 & 3. STREET NAME SIGNS ARE TO BE IN ACCORDANCE WITH COUNCIL STANDARD DRAWING SD408.
37. ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
38. ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S.1743 -2001.
39. HOUSE DRAIN CONNECTIONS TO 150mm DIAMETER PIPES TO BE VIA A MANUFACTURED JUNCTION PIECE. 150mm DIAMETER STORMWATER PIPES ARE TO BE HEAVY DUTY SEWER GRADE. PVC PIPES SHALL BE BACKFILLED WITH 10mm MINUS F.C.R. TO 150mm ABOVE TOP OF PIPE IN ALL LOCATIONS.
40. 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m FROM THE LOW SIDE TITLE BOUNDARY AND PROPERTY INLETS 1.0m FROM THE LOW SIDE OF TITLE BOUNDARY REAR EASEMENTS UNLESS OTHERWISE SHOWN.
41. BLASTING GENERALLY IS NOT ENCOURAGED, HOWEVER BLASTING MAY BE REQUIRED AS A LAST RESORT DEPENDING ON GROUND CONDITIONS. COUNCIL IS TO BE NOTIFIED IN WRITING IF ANY BLASTING IS NECESSARY. RESIDENTS LIKELY TO BE AFFECTED BY THE BLASTING AND ALL SERVICE AUTHORITIES SHALL BE NOTIFIED IN WRITING PRIOR TO WORKS COMMENCING. COPIES OF THESE NOTIFICATIONS ARE TO BE SUBMITTED TO COUNCIL.
    RESIDENT NOTIFICATION LETTER IS TO INCLUDE BLASTING GUIDELINES, FIRING AND MISFIRE PROCEDURES AND CONTRACTOR AND CONSULTANT CONTACT NAMES AND PHONE NUMBERS.
    ALL BLASTING IS TO BE WITHIN THE LIMITS FOR AIR AND GROUND VIBRATION LEVELS AS SET DOWN IN A.S.2187.2-1993.
    ALL BLASTS SHALL BE MONITORED FOR AIR AND NOISE VIBRATION AT POTENTIALLY AFFECTED RESIDENCES. "FORM A" FROM A.S. 2187.2-1993, AND WAVE TRACE COPIES ARE TO BE SUBMITTED TO COUNCIL FOR EACH BLAST.
    BLASTING IS TO BE RESTRICTED TO BETWEEN 9:00am AND 3:30pm.
    BLASTING IS NOT TO OCCUR ON WEEKENDS OR PUBLIC HOLIDAYS.
    BLASTING AREA SIGNS ARE TO BE PLACED AT ALL ENTRANCES TO THE SITE.
42. FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.
43. WHERE SODIC SOILS ARE ENCOUNTERED, SODIC SOIL INVESTIGATIONS SHOULD BE CARRIED OUT BY A QUALIFIED SOIL SCIENTIST AND THE RECOMMENDATIONS OF THE REPORT SHOULD BE APPLIED DURING ROAD & DRAINAGE DESIGN AND CONSTRUCTION.

SPIIRE GENERAL NOTES:

44. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
45. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
46. WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
47. ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH A.S.3798-2007. FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, A.S.3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
48. ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
49. NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
50. T.B.M.'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M.'S THEREAFTER.
51. AT LEAST THREE (3) DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
52. WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DE-SLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
53. GAS AND WATER CONDUITS SIZES ARE AS FOLLOWS:
    Ø50mm CLASS 12 P.V.C. - SINGLE SERVICE
    Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
    WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
    ROAD PAVEMENT - 0.80m
    VERGE & FOOTPATHS - 0.45m
54. A.G. / SUBSOIL DRAIN TO BE LAID BEHIND KERB & CHANNEL, KERB ONLY AND EDGE STRIPS WHERE REQUIRED IN ACCORDANCE WITH THE HUME CITY COUNCIL STANDARD DRAWING SD282 AND CONNECTED TO UNDERGROUND DRAINAGE.
55. CENTRE LINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
56. WHERE CURVED PIPE ALIGNMENTS 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. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
57. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
58. TELSTRA IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
59. PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
60. WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
61. WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
62. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH A.S.1742-3.
63. THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
64. CONTRACTOR TO ENSURE SEWER MANHOLES ARE WHOLLY LOCATED IN PROPOSED FOOTPATHS.



LOCALITY PLAN

H 1:4000 SCALE @ A1 — 0 40 80 120 160 200

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	FACE SHEET	1	1
CR200	FACE PLAN	2	1
CR201	SERVICES PLAN	3	1
CR300	ROAD LONG SECTIONS - SHEET 1	4	1
CR400	ROAD CROSS SECTIONS - SHEET 1	5	1
CR401	ROAD CROSS SECTIONS - SHEET 2	6	1
CR500	INTERSECTION DETAILS	7	1
CR600	DRAINAGE LONG SECTIONS - SHEET 1	8	1
CR601	DRAINAGE LONG SECTIONS - SHEET 2	9	1
CR602	DRAINAGE LONG SECTIONS & PIT SCHEDULE	10	1
CR700	PAVEMENT AND TYPICAL DETAILS	11	1
CR800	SIGNAGE AND LINEMARKING	12	1
CR900	RETAINING WALLS	13	1

1

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
UNDERGROUND ELECTRICITY	E	E
OPTIC FIBRE	OF	OF
SEWER & MAINTENANCE STRUCTURE	S	S
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
COUNCIL 50 YR STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER	AG	AG
STORM WATER DRAINAGE PIT NUMBER	47	1
WATER CONDUITS	W	W
CONCRETE VEHICLE CROSSING		
CONCRETE VEHICLE CROSSING (INDUSTRIAL) AS PER EDCM 503		
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	- 169.00 -	169.00
SURFACE CONTOUR MAJOR	- 168.90 -	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
LOT FALL DIRECTION		
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	**CH20.06**
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
SLEEPER RETAINING WALL		
ROCK RETAINING WALL		
FENCES		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
STREET TREES		
PARKED PASSENGER VEHICLE		
RESERVE		

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Zero damage - Zero harm - Zero disruption

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.

Rev	Amendments	Approved	Date
1	DRAWING SCHEDULE UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
D	AMENDED AS PER COUNCIL COMMENTS	M.R	09/04/26
C	RETAINING WALLS ADDED	L.T	05/02/26
B	AMENDED AS PER COUNCIL COMMENTS	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale

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villawood properties

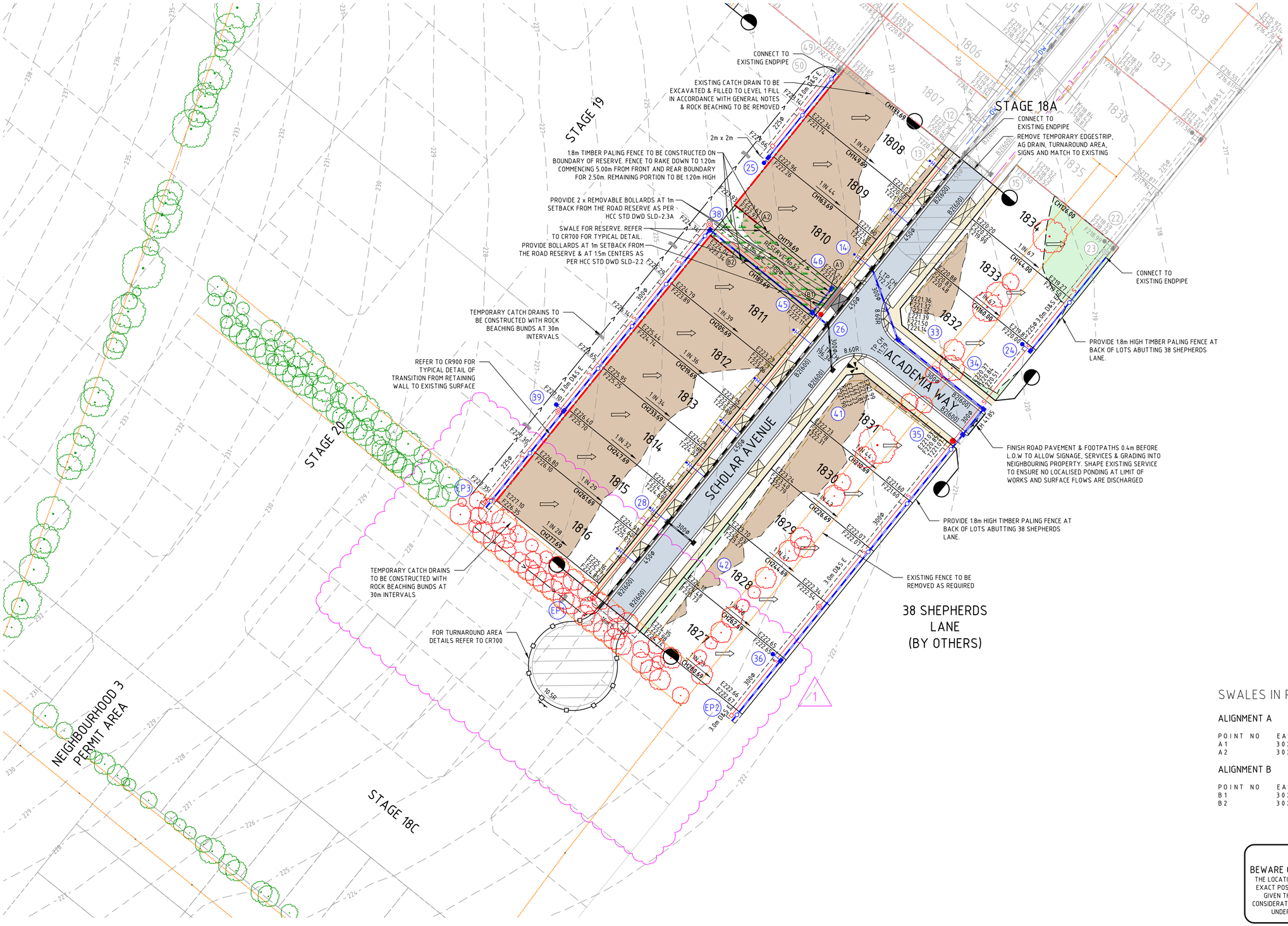
Redstone. Your world awaits

Designed	Checked
L.TRAN	J.POYNER
Authorised	**Date**
M.RANJANAN	21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
FACE SHEET
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No **310068CR100** Rev **1**

file name 310068CR100.dwg layout name CR100 plotted by Deepak Rawat
SHEET 1 OF 13



MGA 2020
ZONE 55

SWALES IN RESERVE SETOUT DETAILS

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	302192.769	5835108.699	221.706
A2	302173.046	5835124.617	222.421

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	302187.745	5835102.474	222.060
B2	302168.021	5835118.392	222.954

WARNING

BEWARE OF UNDERGROUND/OVERHEAD SERVICES

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Rev	Amendments	Approved	Date
1	STAGE BOUNDARY/RESERVE FP UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
D	RESERVE HATCH ADDED	M.R	09/04/26
C	RETAINING WALLS ADDED	L.T	05/02/26
B	PRINCIPAL BOULEVARD & DRAINAGE AMENDED, DRIVEWAY & NOTES ADDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500
SCALE @ A1
0 5 10 15 20 25

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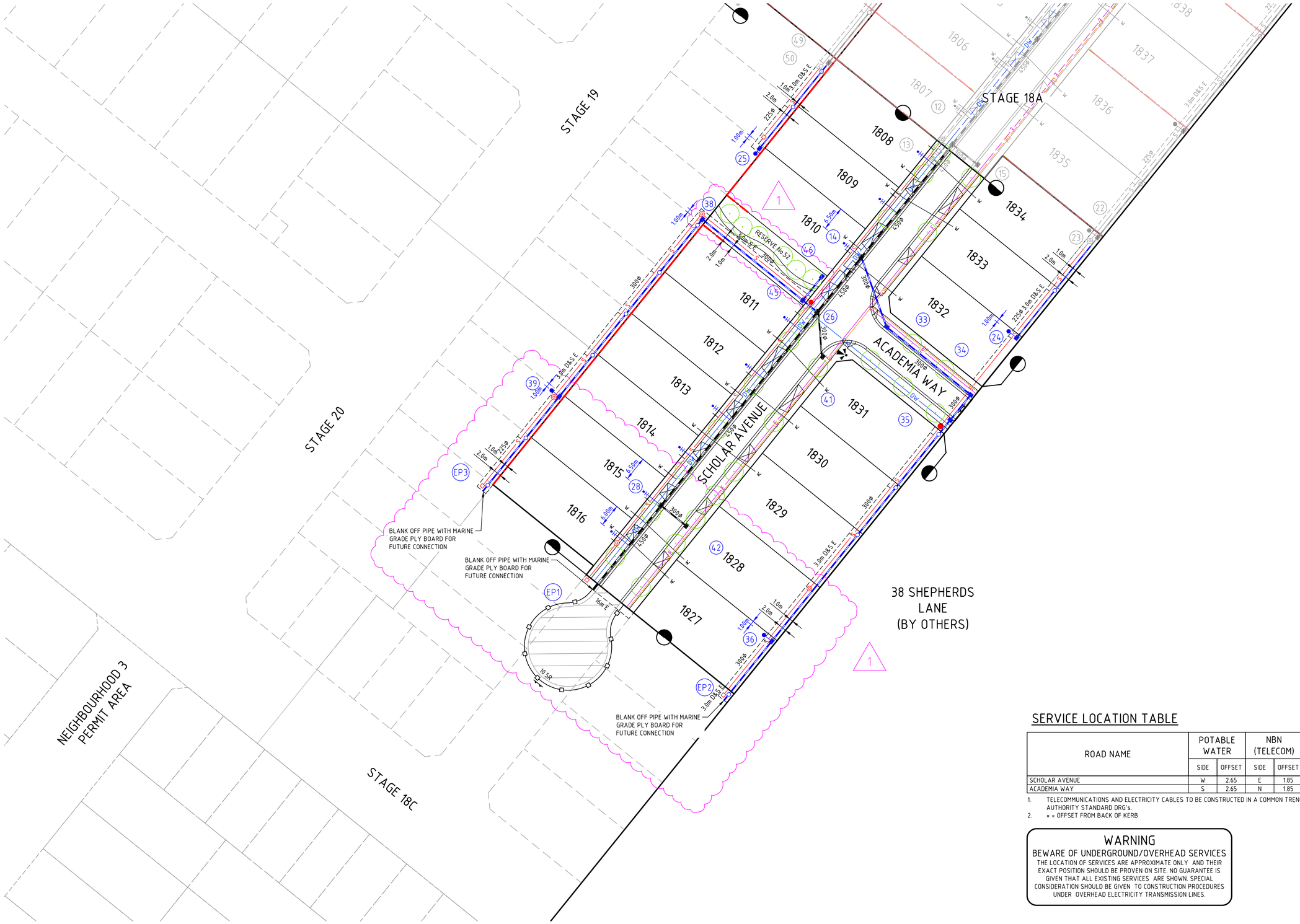
villawood properties
Redstone. Your world awaits

Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
FACE PLAN
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION
Drg No 310068CR200
Rev 1

file name 310068CR200.dwg layout name CR200 plotted by Deepak Rawat
SHEET 2 OF 13



SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		NBN (TELECOM)		ELECTRICITY			
					POLE		U/G CABLE	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET
SCHOLAR AVENUE	W	2.65	E	1.85	E	1.00x	E	2.40
ACADEMIA WAY	S	2.65	N	1.85	N	1.00x	N	2.50

1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.
2. x = OFFSET FROM BACK OF KERB

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.

Rev	Amendments	Approved	Date
1	STAGE BOUNDARY/RESERVE FP UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
C	RETAINING WALLS ADDED	L.T	05/02/26
B	PRINCIPAL BOULEVARD & DRAINAGE AMENDED, DRIVEWAY & DIMENSIONS ADDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500
SCALE @ A1
0 5 10 15 20 25

dICS ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified

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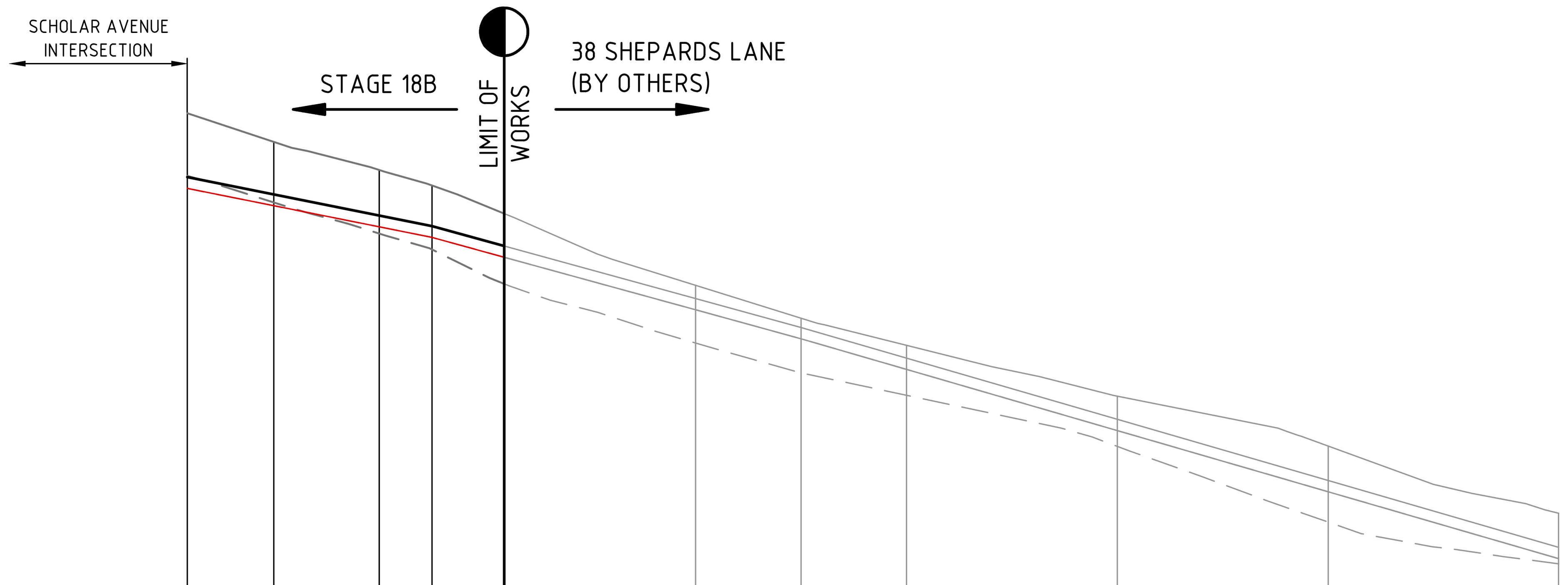
villawood properties
Redstone. Your world awaits

Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE SERVICES PLAN
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION
Drg No 310068CR201
Rev 1

file name 310068CR200.dwg layout name CR201 plotted by Deepak Rawat
SHEET 1 OF 13



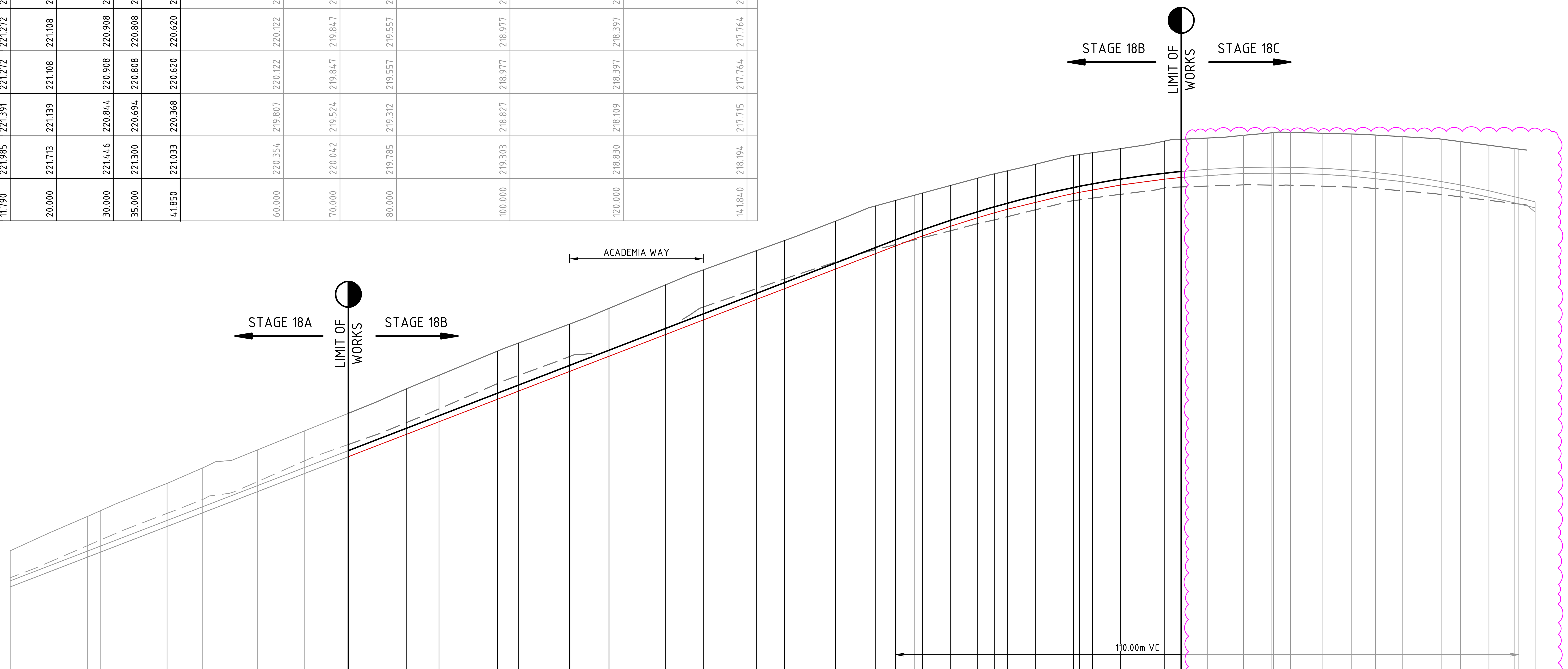
VERTICAL GEOMETRY

DESIGN GRADELINE: -2.00% | -2.75% | -2.90%

DATUM RL 216.5

DESIGN CENTRELINE	221.379	221.215	221.015	220.915	220.727	220.228	219.954	219.664	219.084	218.504	217.871
LEFT DESIGN LIP OF KERB	221.272	221.108	220.908	220.808	220.620	220.122	219.847	219.557	218.977	218.397	217.764
RIGHT DESIGN LIP OF KERB	221.272	221.108	220.908	220.808	220.620	220.122	219.847	219.557	218.977	218.397	217.764
EX SURFACE LEFT BOUNDARY	221.391	221.139	220.844	220.694	220.368	219.807	219.524	219.312	218.827	218.109	217.715
EX SURFACE RIGHT BOUNDARY	221.985	221.713	221.446	221.300	221.033	220.354	220.042	219.785	219.303	218.830	218.194
CHAINAGE	11.790	20.000	30.000	35.000	41.850	60.000	70.000	80.000	100.000	120.000	141.840

ACADEMIA WAY



VERTICAL GEOMETRY: 110.00m VC

DESIGN GRADELINE: 3.85% | -2.50%

DATUM RL 215.0

DESIGN CENTRELINE	217.402	217.929	218.018	218.468	218.711	219.084	219.404	219.700	220.097	220.316	220.713	220.855	221.203	221.471	221.856	222.112
LEFT DESIGN LIP OF KERB	217.295	217.822	217.911	218.361	218.604	218.977	219.297	219.593	219.990	220.209	220.606	220.748	221.097			222.005
RIGHT DESIGN LIP OF KERB	217.295	217.822	217.911	218.361	218.604	218.977	219.297	219.593	219.990	220.209	220.606	220.748	221.097	221.364	221.749	222.005
EX SURFACE LEFT BOUNDARY	217.457	218.026	218.126	218.592	218.840	219.154	219.521	219.808	220.197	220.436	220.881	221.026	221.360			222.234
EX SURFACE RIGHT BOUNDARY	217.932	218.540	218.642	219.121	219.396	219.714	220.050	220.358	220.792	221.029	221.455	221.597	221.932	222.209	222.625	222.889
CHAINAGE	74.000	87.690	90.000	101.690	108.000	117.690	126.000	133.690	144.000	149.690	160.000	163.690	172.740	179.690	189.690	196.340

DESIGN CENTRELINE	222.472	222.664	223.011	223.280	223.418	223.546	223.594	223.766	223.913	224.001	224.065	224.194	224.343	224.363	224.407	224.492	224.595
LEFT DESIGN LIP OF KERB	222.365	222.558	222.904	223.174	223.312	223.440	223.485	223.659	223.807	223.895	223.959	224.080	224.236	224.256	224.297	224.386	224.488
RIGHT DESIGN LIP OF KERB	222.365	222.558	222.904	223.174	223.312	223.440	223.485	223.659	223.807	223.895	223.959	224.080	224.236	224.256	224.297	224.386	224.488
EX SURFACE LEFT BOUNDARY	222.557	222.730	223.028	223.245	223.335	223.421	223.454	223.580	223.703	223.771	223.827	223.950	224.109	224.123	224.155	224.222	224.333
EX SURFACE RIGHT BOUNDARY	223.226	223.407	223.750	224.016	224.114	224.208	224.244	224.379	224.505	224.583	224.636	224.753	224.907	224.922	224.955	225.028	225.160
CHAINAGE	205.690	210.690	219.690	226.690	230.275	233.690	235.000	240.000	244.690	247.690	250.000	255.000	261.690	262.690	265.000	270.000	277.690

DESIGN CENTRELINE	224.626	224.663	224.694	224.702	224.702	224.700	224.680	224.648	224.608	224.553	224.447	224.387	224.285	224.182	224.161	224.089
LEFT DESIGN LIP OF KERB	224.519	224.550	224.588	224.596	224.596	224.593	224.574	224.541	224.496	224.447	224.341	224.281	224.171	224.075	224.054	223.983
RIGHT DESIGN LIP OF KERB	224.519	224.550	224.588	224.596	224.596	224.593	224.574	224.541	224.496	224.447	224.341	224.281	224.171	224.075		
EX SURFACE LEFT BOUNDARY	224.352	224.367	224.389	224.384	224.384	224.383	224.366	224.351	224.324	224.284	224.217	224.177	224.116	224.061	224.051	223.906
EX SURFACE RIGHT BOUNDARY	225.192	225.214	225.263	225.307	225.309	225.315	225.300	225.286	225.268	225.240	225.194	225.152	225.087	225.030	225.020	
CHAINAGE	280.690	285.275	291.690	296.690	296.968	300.000	305.690	310.690	315.000	319.690	326.690	330.000	335.000	339.440	340.275	343.140

SCHOLAR AVENUE

1

file name 310068CR300.dwg layout name CR300 plotted by Deepak Rawat
SHEET 4 OF 13

Rev	Amendments	Approved	Date
1	LONG SECTION UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	LONG SECTION AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500 SCALE @ A1 V 1:50
0 5 10 15 20 25
0 0.5 1 1.5 2 2.5

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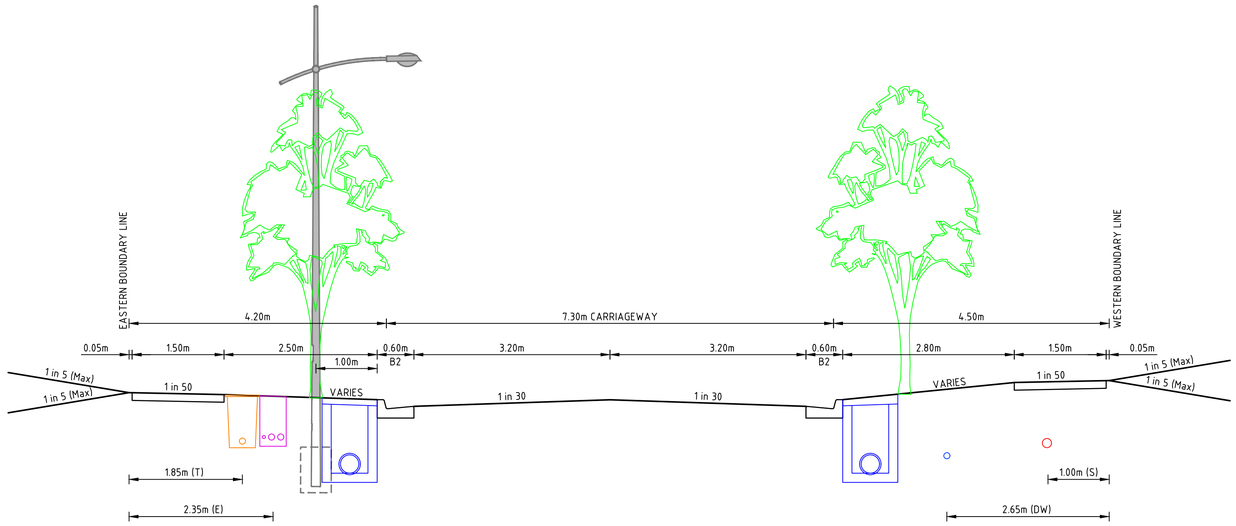
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Designed: L.TRAN
Checked: J.POYNER
Authorised: M.RANJANAN
Date: 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

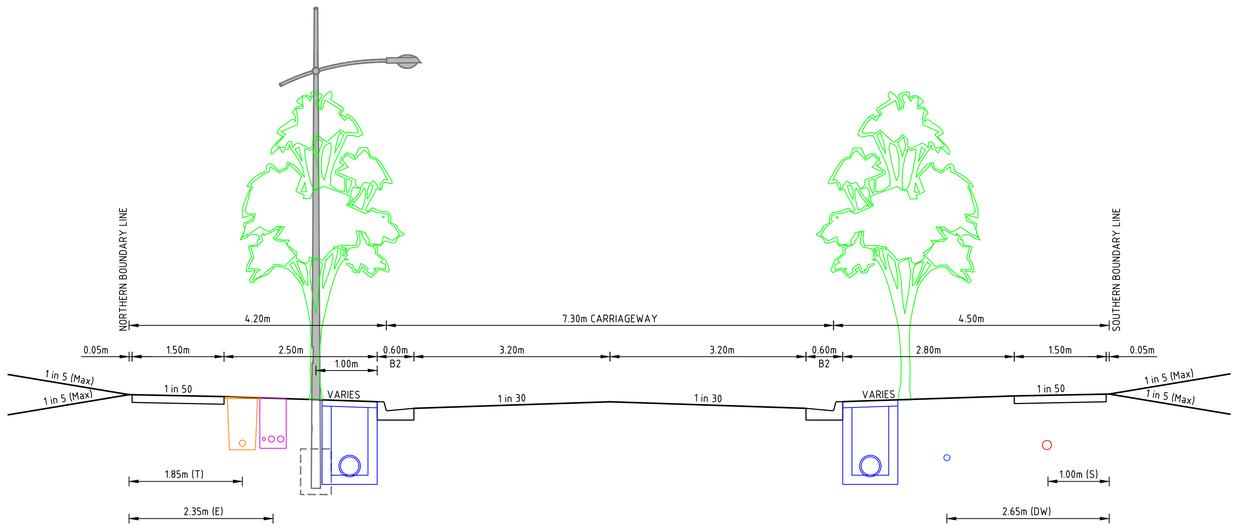
CONSTRUCTION Drg No **310068CR300** Rev **1**



SCHOLAR AVENUE TYPICAL CROSS SECTION

16m WIDE ACCESS STREET

SCALE 1 : 50 @ A1



ACADEMIA WAY TYPICAL CROSS SECTION

16m WIDE ACCESS STREET

SCALE 1 : 50 @ A1

Rev	Amendments	Approved	Date
1	PRINCIPAL BLVD SECTION REMOVED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	PRINCIPAL BOULEVARD TYPICAL CROSS SECTION AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:100
SCALE @ A1
V 1:50
0 1 2 3 4 5
0 0.5 1 1.5 2 2.5

System Certified

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Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

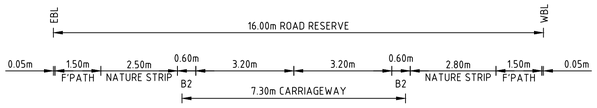
REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

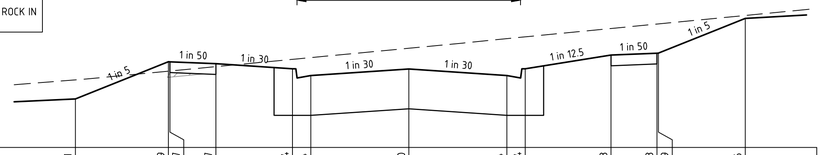
CONSTRUCTION Drg No **310068CR400** Rev **1**

file name 310068CR400.dwg layout name CR400 plotted by Deepak Rawat
SHEET 5 OF 13

FILLING NOTE

ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
FILLING UNDERNEATH FOOTPATH TO BE CLASS 3 CRUSHED ROCK IN ACCORDANCE WITH COUNCIL STANDARDS.



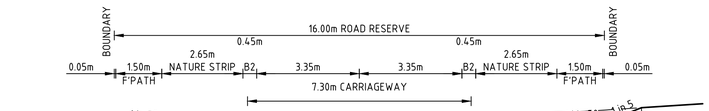


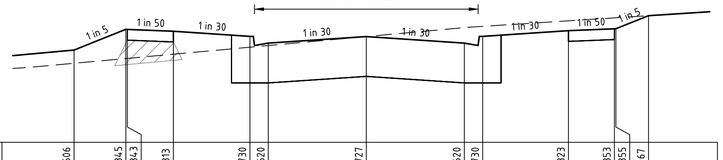
DATUM R.L.222.0

DESIGN SURFACE LEVEL		222.791		223.399	223.397	223.367		223.284	223.174		223.280		223.174	223.284		223.508		223.538	223.539		224.106	
EXISTING SURFACE LEVEL	223.103		223.245	223.247	223.319		223.438	223.466		223.619		223.776	223.805		223.941		224.014	224.016		224.154		
OFFSET	-10.886		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		10.982		

SCHOLAR AVENUE

CH 226.69



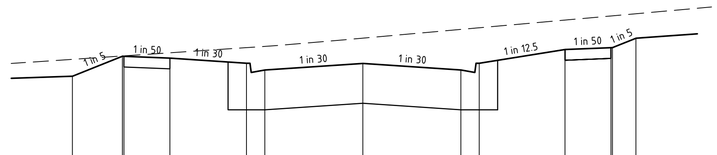


DATUM R.L.219.0

DESIGN SURFACE LEVEL		220.506		220.845	220.843	220.813		220.730	220.620		220.727		220.620	220.730		220.823		220.853	220.855		221.067	
EXISTING SURFACE LEVEL	220.290		220.368	220.370	220.438		220.553	220.580		220.726		220.873	220.893		220.983		221.032	221.033		221.068		
OFFSET	-9.542		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		9.713		

ACADEMIA WAY

CH 41.85

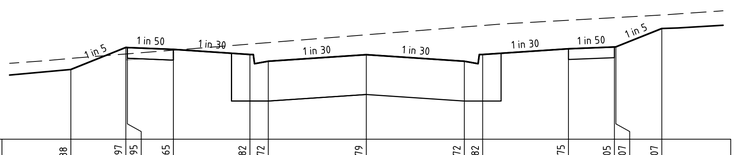


DATUM R.L.220.0

DESIGN SURFACE LEVEL		221.904		222.230	222.229	222.199		222.115	222.005		222.112		222.005	222.115		222.339		222.369	222.371		222.524	
EXISTING SURFACE LEVEL	222.179		222.234	222.235	222.286		222.370	222.390		222.524		222.667	222.694		222.819		222.886	222.889		222.923		
OFFSET	-9.483		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		8.916		

SCHOLAR AVENUE

CH 196.34

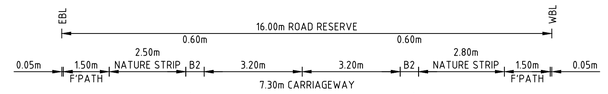


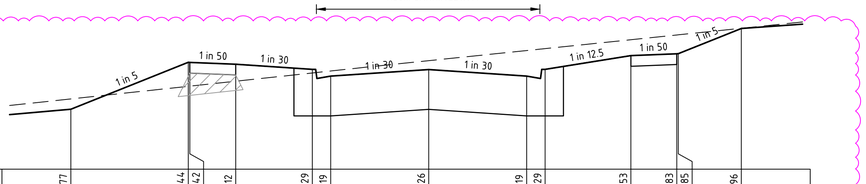
DATUM R.L.220.0

DESIGN SURFACE LEVEL		221.138		221.497	221.495	221.465		221.382	221.272		221.379		221.272	221.382		221.475		221.505	221.507		221.807	
EXISTING SURFACE LEVEL	221.319		221.391	221.393	221.453		221.552	221.576		221.704		221.831	221.855		221.941		221.983	221.985		222.027		
OFFSET	-9.646		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		9.648		

ACADEMIA WAY

CH 11.79





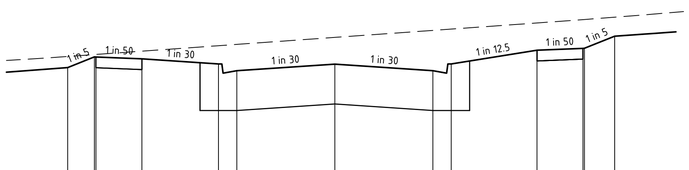
DATUM R.L.223.0

DESIGN SURFACE LEVEL		223.977		224.744	224.742	224.712		224.629	224.519		224.626		224.519	224.629		224.853		224.883	224.885		225.296	
EXISTING SURFACE LEVEL	224.146		224.352	224.355	224.435		224.570	224.602		224.771		224.936	224.967		225.112		225.190	225.192		225.299		
OFFSET	-11.683		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		10.206		

SCHOLAR AVENUE

CH 280.69

1

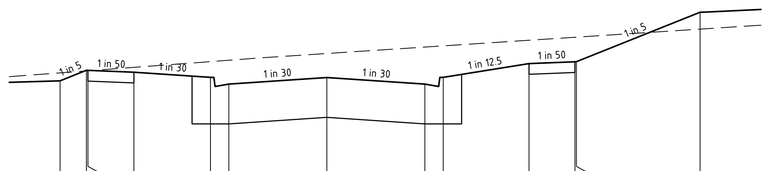


DATUM R.L.219.0

DESIGN SURFACE LEVEL		221.147		221.322	221.320	221.290		221.207	221.097		221.203		221.097	221.207		221.431		221.461	221.462		221.659	
EXISTING SURFACE LEVEL	221.329		221.360	221.362	221.415		221.504	221.526		221.640		221.754	221.776		221.876		221.930	221.932		221.970		
OFFSET	-8.724		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		9.136		

SCHOLAR AVENUE

CH 172.74

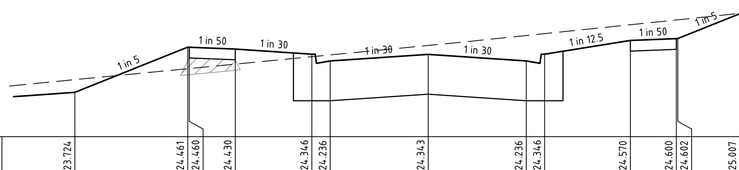


DATUM R.L.218.0

DESIGN SURFACE LEVEL		219.646		219.818	219.817	219.787		219.703	219.593		219.700		219.593	219.703		219.927		219.957	219.959		220.766	
EXISTING SURFACE LEVEL	219.776		219.808	219.810	219.866		219.959	219.982		220.092		220.197	220.216		220.308		220.357	220.358		220.490		
OFFSET	-8.711		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		12.185		

SCHOLAR AVENUE

CH 133.69



DATUM R.L.223.0

DESIGN SURFACE LEVEL		223.724		224.461	224.460	224.430		224.346	224.236		224.343		224.236	224.346		224.570		224.600	224.602		225.007	
EXISTING SURFACE LEVEL	223.931		224.109	224.112	224.184		224.305	224.334		224.489		224.651	224.682		224.827		224.905	224.907		225.012		
OFFSET	-11.535		-7.850	-7.800	-6.300		-3.800	-3.200		0.000		3.200	3.800		6.600		8.100	8.150		10.176		

SCHOLAR AVENUE

CH 261.69

Rev	Amendments	Approved	Date
1	CROSS SECTION UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	PRINCIPAL BOULEVARD CROSS SECTION AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:100 SCALE @ A1
V 1:50
0 1 2 3 4 5
0 0.5 1 1.5 2 2.5

dlcs ISO 9001 certified ISO 45001 certified ISO 14001 certified
System Certified
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Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

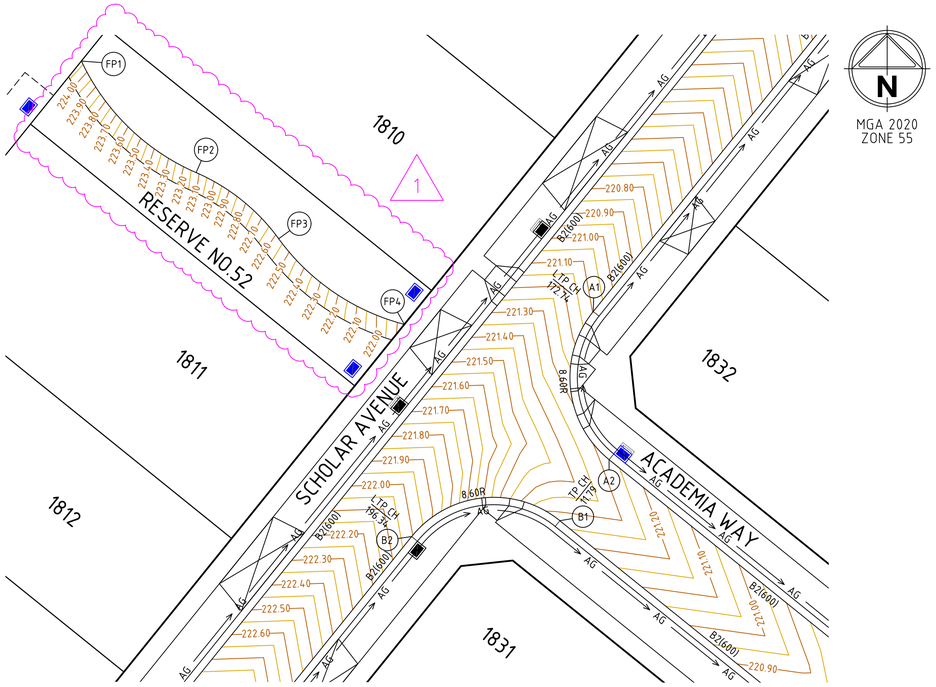
REDSTONE ESTATE STAGE 18B

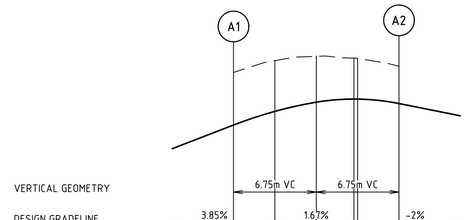
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION

Drg No 310068CR401
Rev 1

file name 310068CR400.dwg layout name CR401 plotted by Deepak Rawat
SHEET 16 OF 33





DATUM RL 220.0

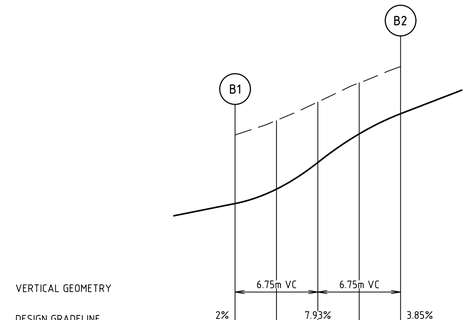
DESIGN LEVEL	221.097	221.208	221.283	221.309	221.309	221.272	
CHAINAGE	0.000	3.377	6.754	9.831	10.132	13.509	

ALIGNMENT A

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	302207.726	5835106.844	221.097
1/4	302206.169	5835103.872	221.208
1/2	302205.867	5835100.530	221.283
3/4	302206.867	5835097.327	221.309
A2	302209.017	5835094.751	221.272

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655



DATUM RL 220.0

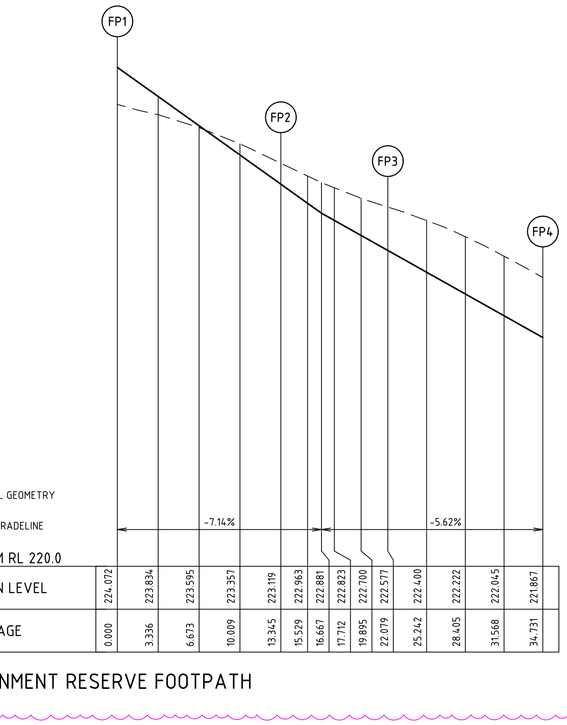
DESIGN LEVEL	221.272	221.390	221.607	221.841	222.005		
CHAINAGE	0.000	3.377	6.754	10.132	13.509		

ALIGNMENT B

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	302204.998	5835089.770	221.272
1/4	302202.026	5835091.328	221.390
1/2	302198.684	5835091.629	221.607
3/4	302195.481	5835090.629	221.841
B2	302192.904	5835088.479	222.005

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	-0.655



DATUM RL 220.0

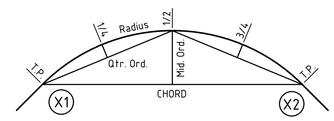
DESIGN LEVEL	224.072	223.834	223.595	223.357	223.119	222.963	222.881	222.823	222.700	222.577	222.400	222.222	222.045	221.867
CHAINAGE	0.000	3.336	6.673	10.009	13.345	15.529	16.667	17.712	19.895	22.079	25.242	28.405	31.568	34.731

ALIGNMENT RESERVE FOOTPATH

ALIGNMENT FOOTPATH

POINT NO	EASTING	NORTHING	RL
FP1	302165.949	5835127.280	224.072
1/4	302167.630	5835124.403	223.834
1/2	302169.800	5835121.874	223.595
3/4	302172.388	5835119.776	223.357
FP2	302175.310	5835118.176	223.119
1/4	302177.249	5835117.175	222.963
1/2	302179.038	5835115.926	222.823
3/4	302180.647	5835114.452	222.700
FP3	302182.047	5835112.779	222.577
1/4	302184.121	5835110.397	222.400
1/2	302186.570	5835108.401	222.222
3/4	302189.323	5835106.852	222.045
FP4	302192.300	5835105.794	221.867

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
FP1-FP2	18.500	13.345	13.058	1.190	-0.300
FP2-FP3	16.500	8.733	8.632	0.574	0.144
FP3-FP4	18.500	12.652	12.407	1.071	-0.270



KERB RETURN SETOUT DETAIL

1

Rev	Amendments	Approved	Date
1	RESERVE FP SETOUT ADDED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	ALIGNMENT B, C & D AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale

DETAIL PLAN
H 1:250 SCALE @ A1 — 0 2.5 5 7.5 10 12.5

LIP PROFILE
H 1:250 SCALE @ A1 — 0 2.5 5 7.5 10 12.5
V 1:25 — 0 0.25 0.50 0.75 1.00 1.25

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified
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villawood properties

Redstone. Your world awaits

Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

REDSTONE ESTATE STAGE 18B

ROAD AND DRAINAGE INTERSECTION DETAILS

HUME CITY COUNCIL
VILLAWOOD PROPERTIES

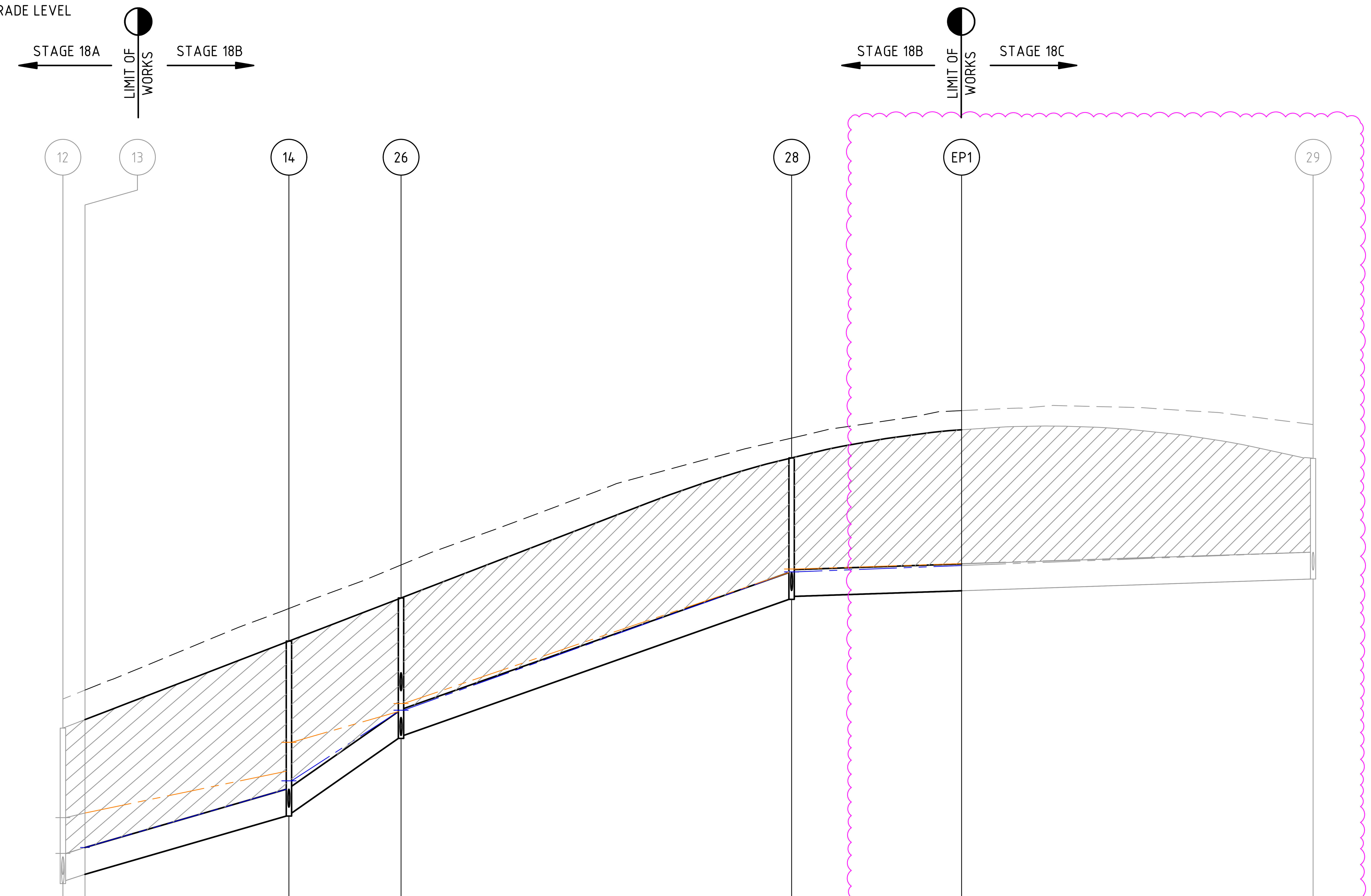
CONSTRUCTION Drg No 310068CR500 Rev 1

file name 310068CR500.dwg layout name CR500 plotted by Deepak Rawat
SHEET 7 OF 13

CLASS 2 CRUSHED ROCK BACKFILL

50YR HYDRAULIC GRADE LEVEL

5YR HYDRAULIC GRADE LEVEL



	12–13	13–14	14–26	26–28	28–EP1	EP1–29
Pipe Diameter	Ø450	Ø450	Ø450	450Ø	450Ø	450Ø
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 35	1 in 35	1 in 15	1 in 29	1 in 300	1 in 300
Velocity (m/s)	Vf=3.031	Vf=3.031	Vf=4.631	Vf=3.347	Vf=1.035	Vf=1.035
Pipe Flow (m3/s)	Qa=0.232 Q50=0.460	Qa=0.232 Q50=0.460	Qa=0.152 Q50=0.365	Qa=0.103 Q50=0.243	Qa=0.080 Q50=0.118	Qa=0.080 Q50=0.118
Pipe Capacity (m3/s)	Qcap=0.482	Qcap=0.482	Qcap=0.736	Qcap=0.532	Qcap=0.165	Qcap=0.165

DATUM 214.00

	12	13	14	26	28	EP1	29
DEPTH TO INVERT	2.608 / 2.558	2.595	2.935 / 2.885	2.355 / 2.305	2.373 / 2.323	2.700 / 2.700	2.024 / 1.874
DESIGN INVERT LEVEL	217.065 / 217.115	217.221	218.198 / 218.248	219.501 / 219.551	221.833 / 221.883	221.978 / 221.978	222.175 / 222.325
HYDRAULIC GRADE LEVEL	217.940 217.515 / 217.572 218.172	218.249 217.671	218.950 218.648 / 218.790 219.435	219.951 219.951 / 219.975 220.086	222.283 222.283 / 222.294 222.343	222.428	222.625 222.625 / 222.639 222.656
FINISHED SURFACE LEVEL	219.674	219.816	221.133	221.857	224.206	224.679	224.198
EXISTING SURFACE LEVEL	220.163	220.312	221.680	222.410	224.539	225.000	224.766
CHAINAGE	0.000	3.700	37.900	56.700	122.200	150.700	209.650

Lengths: L=3.700m (12–13), L=34.200m (13–14), L=18.800m (14–26), L=65.500m (26–28), L=28.50m (28–EP1)

Q50 PIPES AND PITS
TO REDUCE GAP FLOWS IN ROAD

1

Rev	Amendments	Approved	Date
1	DRAINAGE LONG SECTION AMENDED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	DRAINAGE LONG SECTION AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500 SCALE @ A1 V 1:50
0 5 10 15 20 25
0 0.5 1 1.5 2 2.5

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villawood properties
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Designed: L.TRAN
Checked: J.POYNER
Authorised: M.RANJANAN
Date: 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

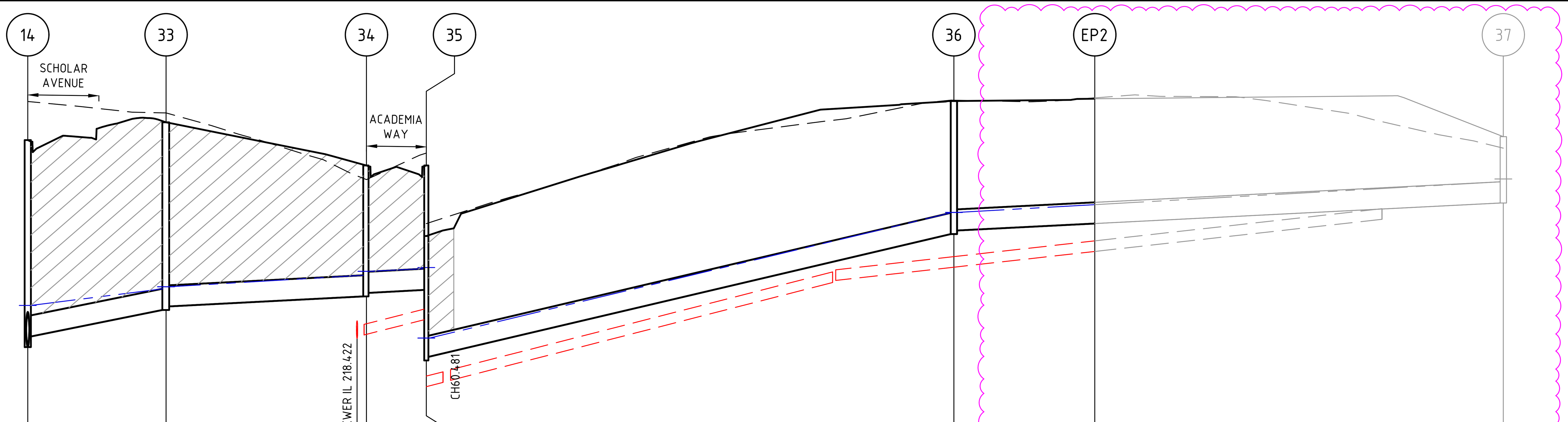
CONSTRUCTION Drg No 310068CR600 Rev 1

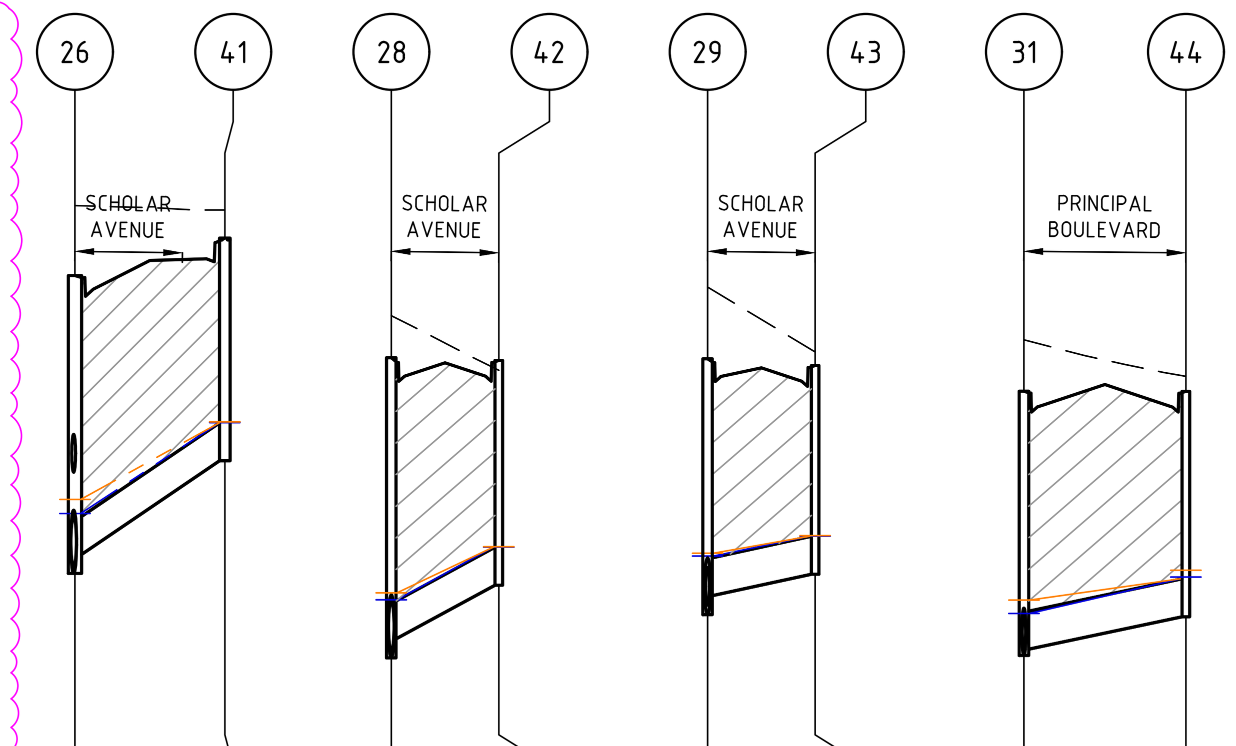
file name 310068CR600.dwg layout name CR600 plotted by Deepak Rawat
SHEET 8 OF 13

CLASS 2 CRUSHED ROCK BACKFILL

50YR HYDRAULIC GRADE LEVEL

5YR HYDRAULIC GRADE LEVEL





Long section 14 – 33 – 34 – 35 – 36 – EP2 – 37

Segment	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m3/s)	Pipe Capacity (m3/s)	Datum	Length
14 – 33	Ø300	Class 2	1 in 52	Vf=1.895	Qa=0.058	Qcap=0.134	215.00	L=19.631m
33 – 34	Ø300	Class 2	1 in 200	Vf=0.968	Qa=0.059	Qcap=0.068		L=28.450m
34 – 35	Ø300	Class 2	1 in 200	Vf=0.968	Qa=0.057	Qcap=0.068		L=8.500m
35 – 36	300Ø	Class 2	1 in 43	Vf=2.087	Qa=0.057	Qcap=0.148	216.00	L=74.900m
36 – EP2	300Ø	Class 2	1 in 200	Vf=0.968	Qa=0.028	Qcap=0.068		L=20.000m
EP2 – 37	300Ø	Class 2	1 in 200	Vf=0.968	Qa=0.028	Qcap=0.068		L=58.000m

Pit	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
14	2.935 / 2.785	218.198 / 218.348	218.648 / 218.790	221.133	221.680	0.000
33	2.661 / 2.611	218.724 / 218.774	219.024 / 219.052	221.385	221.518	19.631
34	1.856 / 1.806	218.917 / 218.967	219.217 / 219.271	220.773	220.573	48.081
35	1.763 / 1.713	219.009 / 219.059	219.309 / 219.326	220.773	220.949	56.581
36	1.885 / 1.835	220.801 / 220.851	221.101 / 221.107	222.686	222.698	131.481
EP2	1.768 / 1.768	220.951 / 220.951	221.251	222.719	222.731	151.481
37	0.940	221.241	221.541 / 221.582	222.181	222.019	209.481

Long sections 26 – 41, 28 – 42, 29 – 43, 31 – 44

Segment	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m3/s)	Q50	Pipe Capacity (m3/s)	Datum	Length
26 – 41	300Ø	Class 2	1 in 16	Vf=3.422	Qa=0.006	Q50=0.013	Qcap=0.242	216.00	L=11.845m
28 – 42	Ø300	Class 2	1 in 20	Vf=3.060	Qa=0.004	Q50=0.010	Qcap=0.216	219.00	L=8.500m
29 – 43	Ø300	Class 2	1 in 50	Vf=1.936	Qa=0.005	Q50=0.010	Qcap=0.137	219.00	L=8.500m
31 – 44	300Ø	Class 2	1 in 50	Vf=1.936	Qa=0.017	Q50=0.036	Qcap=0.137	220.00	L=12.800m

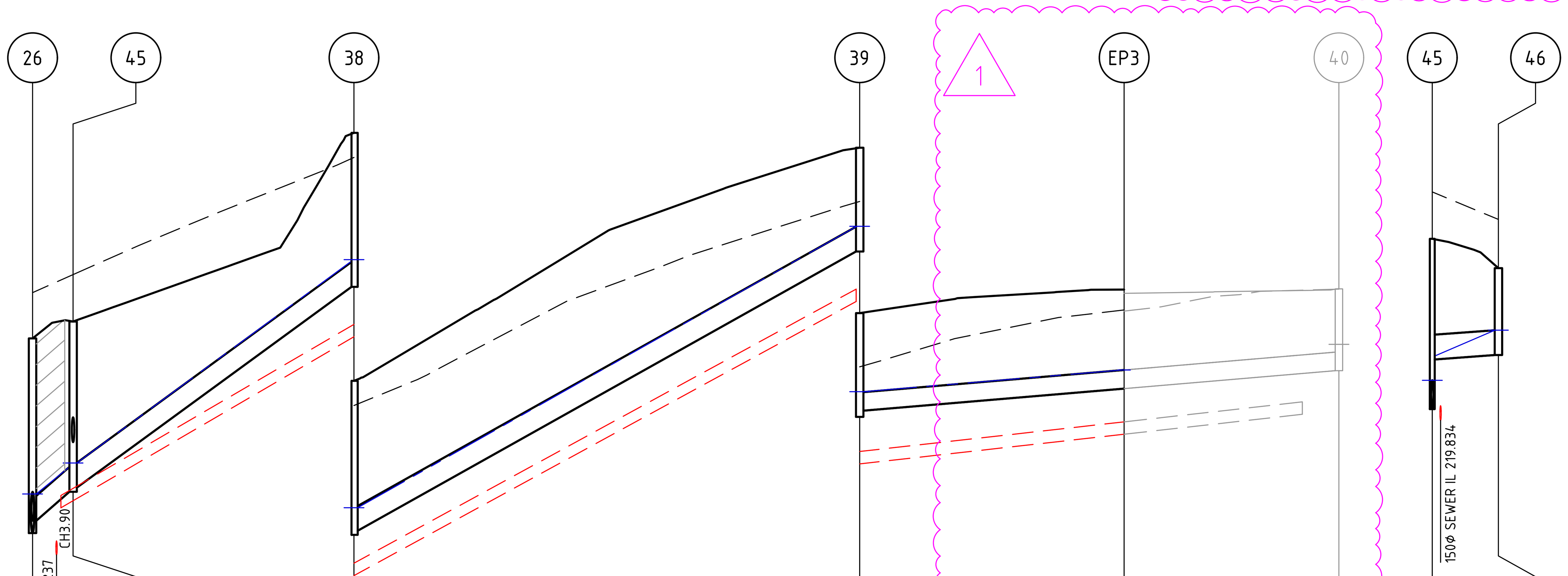
Pit	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL (50YR values in brackets)	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
26	2.355 / 2.205	219.501 / 219.651	(219.951) 219.951 / 219.975 (220.086)	221.857	222.410	0.000
41	1.762	220.392	(220.692) 220.692 / 220.693 (220.700)	222.153	222.376	11.845
28	2.373 / 2.223	221.833 / 221.983	(222.283) 222.283 / 222.294 (222.348)	224.206	224.539	0.000
42	1.777	222.408	(222.708) 222.708 / 222.709 (222.713)	224.185	224.108	8.500
29	2.024 / 1.874	222.175 / 222.325	(222.625) 222.625 / 222.639 (222.656)	224.198	224.766	0.000
43	1.650	222.495	(222.795) 222.795 / 222.796 (222.800)	224.145	224.252	8.500
31	2.090 / 2.040	222.852 / 222.902	(223.152) 223.152 / 223.178 (223.290)	224.942	225.349	0.000
44	1.784	223.158	(223.458) 223.458 / 223.473 (223.526)	224.942	225.060	12.800

Q50 PIPES AND PITS TO REDUCE GAP FLOWS IN ROAD (26 – 41)

Q50 PIPES AND PITS TO REDUCE GAP FLOWS IN ROAD (28 – 42)

Q50 PIPES AND PITS TO REDUCE GAP FLOWS IN ROAD (29 – 43)

Q50 PIPES AND PITS TO REDUCE GAP FLOWS IN ROAD (31 – 44)



Long section 26 – 45 – 38 – 39 – EP3 – 40

Segment	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m3/s)	Pipe Capacity (m3/s)	Datum	Length
26 – 45	Ø300	Class 2	1 in 14	Vf=3.658	Qa=0.049	Qcap=0.259	216.00	L=4.904m
45 – 38	Ø300	Class 2	1 in 14	Vf=3.658	Qa=0.046	Qcap=0.259	217.00	L=33.996m
38 – 39	Ø300	Class 2	1 in 18	Vf=3.247	Qa=0.050	Qcap=0.230	220.00	L=60.000m
39 – EP3	Ø225	Class 2	1 in 120	Vf=1.031	Qa=0.024	Qcap=0.041	222.00	L=32.000m
EP3 – 40	225Ø	Class 2	1 in 120	Vf=1.031	Qa=0.024	Qcap=0.041		L=26.000m

Pit	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
26	2.355 / 2.205	219.501 / 219.651	219.951 / 219.975	221.857	222.410	0.000
45	2.059 / 2.009	220.002 / 220.052	220.302 / 220.350	222.060	222.628	4.904
38	1.863 / 1.813	222.480 / 222.530	222.780 / 222.808	224.343	224.045	38.900
39	1.238 / 1.163	225.907 / 225.982	226.207 / 226.212	227.144	226.477	98.900
EP3	1.152 / 1.152	226.249 / 226.249	226.474	227.401	227.186	130.900
40	0.990	226.465	226.690 / 226.784	227.455	227.452	156.900

Long section 45 – 46

Segment	Pipe Diameter	Pipe Class	Pipe Grade	Velocity (m/s)	Pipe Flow (m3/s)	Pipe Capacity (m3/s)	Datum	Length
45 – 46	Ø300	Class 2	1 in 150	Vf=1.118	Qa=0.004	Qcap=0.079	216.00	L=8.000m

Pit	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
45	2.059 / 1.459	220.002 / 220.602	220.302 / 220.350 / 220.650	222.060	222.628	0.000
46	1.051	220.655	220.955	221.706	222.295	8.000

Rev	Amendments	Approved	Date
1	DRAINAGE LONG SECTION AMENDED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
C	DRAINAGE LONG SECTION AMENDED	L.T	05/02/26
B	DRAINAGE LONG SECTION AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500 SCALE @ A1 V 1:50
0 5 10 15 20 25
0 0.5 1 1.5 2 2.5

dlcs ISO 9001 certified ISO 45001 certified ISO 14001 certified
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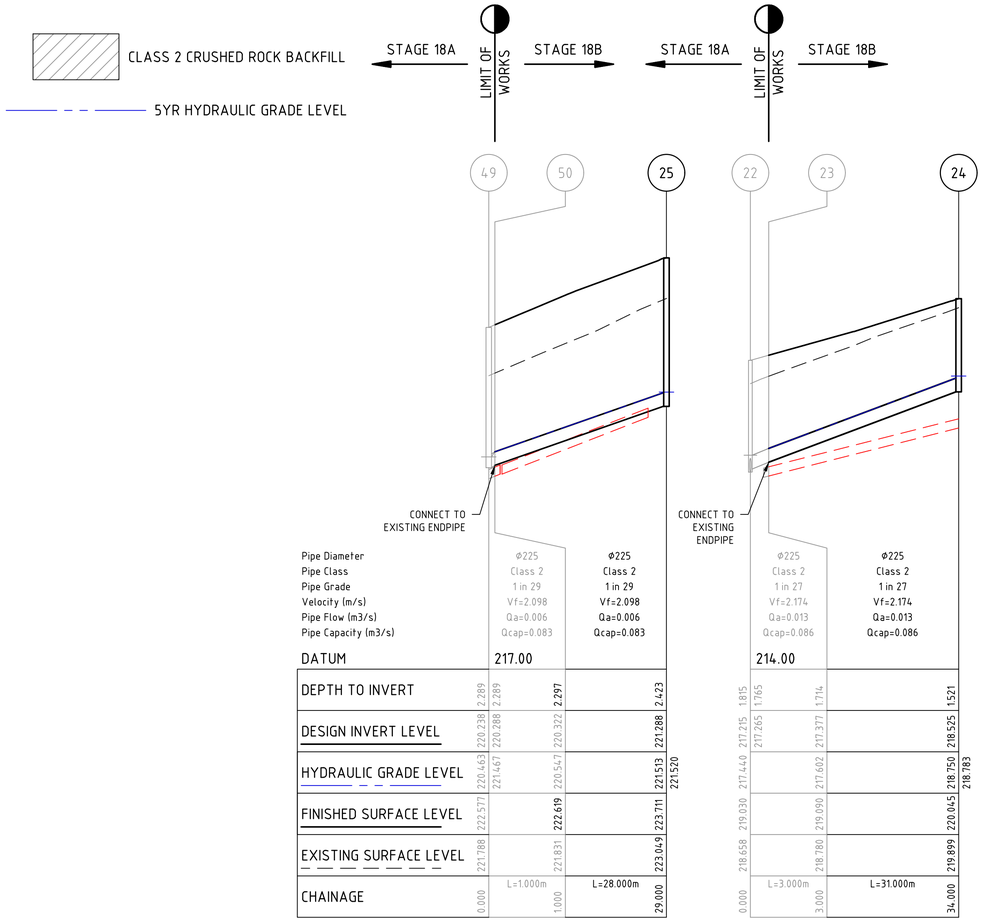
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Designed: L.TRAN
Checked: J.POYNER
Authorised: M.RANJANAN
Date: 21st October 2025

REDSTONE ESTATE STAGE 18B
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No 310068CR601 Rev 1



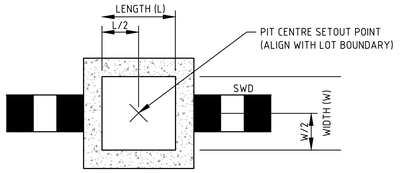
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
13	ENDPIPE			450	217.221	450	217.221	219.816	2.595	CONNECT TO EXISTING ENDPIPE
14	DOUBLE SIDE ENTRY PIT	900	900	450	218.248	450	218.198	221.133	2.935	REFER TO EDCM STD FIG 602 & 607
				300	218.348					
23	ENDPIPE			225	217.377	225	217.377	219.090	1.714	CONNECT TO EXISTING ENDPIPE
24	JUNCTION PIT	600	900			225	218.525	220.045	1.521	REFER TO EDCM STD FIG 605
25	JUNCTION PIT	600	900			225	221.288	223.711	2.423	REFER TO EDCM STD FIG 605
26	DOUBLE SIDE ENTRY PIT	900	900	450	219.551	450	219.501	221.857	2.355	REFER TO EDCM STD FIG 602 & 607
				300	219.651					
				300	220.301					
28	DOUBLE SIDE ENTRY PIT	900	900	450	221.883	450	221.833	224.206	2.373	REFER TO EDCM STD FIG 602 & 607
				300	221.983					
EP1	ENDPIPE			450	221.978	450	221.978	224.679	2.700	BLANK END WITH MARINE PLY
33	JUNCTION PIT	900	900	300	218.774	300	218.724	221.385	2.661	REFER TO EDCM STD FIG 605
34	GRATED SIDE ENTRY PIT	600	900	300	218.967	300	218.917	220.773	1.856	REFER TO EDCM STD FIG 601 & 605
35	GRATED SIDE ENTRY PIT	600	900	300	219.059	300	219.009	220.773	1.763	REFER TO EDCM STD FIG 601 & 605
36	JUNCTION PIT	600	900	300	220.851	300	220.801	222.686	1.885	REFER TO EDCM STD FIG 605
EP2	ENDPIPE			300	220.951	300	220.951	222.719	1.768	BLANK END WITH MARINE PLY
38	JUNCTION PIT	600	900	300	222.530	300	222.480	224.343	1.863	REFER TO EDCM STD FIG 605
39	JUNCTION PIT	600	900	225	225.982	300	225.907	227.144	1.238	REFER TO EDCM STD FIG 605
EP3	ENDPIPE			225	226.249	225	226.249	227.401	1.152	BLANK END WITH MARINE PLY
41	DOUBLE SIDE ENTRY PIT	600	900			300	220.392	222.153	1.762	REFER TO EDCM STD FIG 602 & 605
42	DOUBLE SIDE ENTRY PIT	600	900			300	222.408	224.185	1.777	REFER TO EDCM STD FIG 602 & 605
45	GRATED JUNCTION PIT	600	900	300	220.052	300	220.002	222.060	2.059	REFER TO EDCM STD FIG 605 & HCC STD DWG SD225
				300	220.602					
46	GRATED JUNCTION PIT	600	900			300	220.655	221.706	1.051	REFER TO EDCM STD FIG 605 & HCC STD DWG SD225
50	ENDPIPE			225	220.322	225	220.322	222.619	2.297	CONNECT TO EXISTING ENDPIPE

1

PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
26	B	302191.911	5835099.111
45	C	302188.095	5835102.191
46	C	302193.120	5835108.416



TYPICAL DRAINAGE PIT SETOUT POINT 'B'

JUNCTION PIT/ EASEMENT PIT

NOT TO SCALE

Rev	Amendments	Approved	Date
1	PIT SCHEDULE AMENDED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
D	PIT SCHEDULE AMENDED	M.R	09/04/26
C	DRAINAGE LONG SECTION & PIT SCHEDULE AMENDED	L.T	05/02/26
B	DRAINAGE PIT SCHEDULE AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500
SCALE @ A1
V 1:50
0 5 10 15 20 25
0 0.5 1 1.5 2 2.5

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REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS & PIT SCHEDULE
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION
Drg No 310068CR602
Rev 1

file name 310068CR600.dwg layout name CR602 plotted by Deepak Rawat
SHEET 10 OF 15

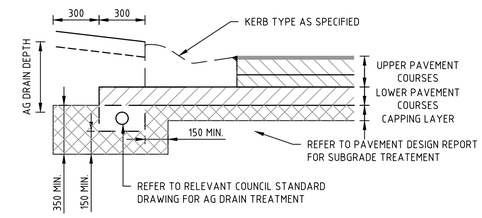
DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) TYPE A*
ASPHALT WEARING COURSE	SIZE 10 TYPE L CLASS 320 ASPHALT	30
ASPHALT BASE COURSE	SIZE 10 TYPE N CLASS 320 ASPHALT	30
	SIZE 10 SAMI SEAL CLASS S18RF	10
	BITUMINOUS PRIMECOAT	Y
BASE COURSE	SIZE 20mm CLASS 2 FCR, COMPACTED TO AT LEAST 98% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT	130
	SIZE 20mm CLASS 2 FCR, COMPACTED TO AT LEAST 100% CHARACTERISTIC MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT	
SUBBASE COURSE	SIZE 20mm CLASS 3 FCR, COMPACTED TO AT LEAST 95% MODIFIED DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 98% MODIFIED DRY DENSITY RATIO AND WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT	100
	SIZE 20mm CLASS 3 FCR, COMPACTED TO AT LEAST 98% CHARACTERISTIC MODIFIED DRY DENSITY RATIO WITHIN 1% OF THE MODIFIED OPTIMUM MOISTURE CONTENT	
CAPPING LAYER	SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT, A PERCENTAGE SWELL OF LESS THAN 1.5% AND A MAXIMUM HYDRAULIC CONDUCTIVITY OF 5 x 10^{-9} m/s	200
CONSTRUCTION LAYER	SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% STANDARD DRY DENSITY RATIO WITH A MEAN VALUE OF AT LEAST 100% STANDARD DRY DENSITY RATIO AND WITHIN 1% OF THE STANDARD OPTIMUM MOISTURE CONTENT, A PERCENTAGE SWELL OF LESS THAN 1.5% AND A MAXIMUM HYDRAULIC CONDUCTIVITY OF 5 x 10^{-9} m/s	150
TOTAL PAVEMENT DEPTH		650
SUBGRADE	NATURAL SILTY CLAY TESTED TO CONFIRM AN IN-SITU CBR OF AT LEAST 15% OR APPROVED FILL COMPACTED TO AT LEAST 100% STANDARD DRY DENSITY RATIO (SOAKED CBR≥3.0%) WITHIN 2% OF THE STANDARD OPTIMUM MOISTURE CONTENT	

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
SCHOLAR AVENUE	A
ACADAMIA WAY	A

CONCRETE PAVEMENT	DESCRIPTION	LEGEND
FOOTPATH	125mm THICK N25 CONCRETE WITH SL72 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES. ON 50mm THICK 20mm CLASS CRUSHED ROCK. REFER TO EDCM401 FOR DETAILS	
RESIDENTIAL VEHICLE CROSSING	125mm THICK N25 CONCRETE WITH SL72 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES. ON 50mm THICK 20mm CLASS CRUSHED ROCK. REFER TO EDCM501-502 FOR DETAILS	
HEAVY DUTY VEHICLE CROSSING	200mm THICK N25 CONCRETE WITH SL82 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES. ON 100mm THICK 20mm CLASS CRUSHED ROCK. REFER TO EDCM503 FOR DETAILS	



TYPICAL SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

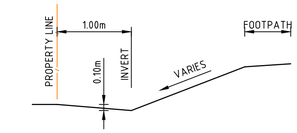
PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY STANTEC AUSTRALIA PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF STANTEC AUSTRALIA PTY LTD.

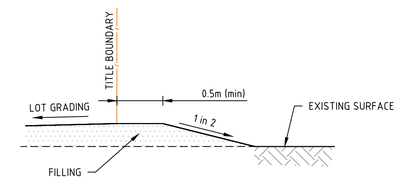
THE DESIGN HAS BEEN EXTRACTED FROM THE V180556REPORT07.2 REPORT ON "GEOTECHNICAL INVESTIGATION FOR PROPOSED RESIDENTIAL SUBDIVISION REDSTONE HILL ESTATE (STAGES 16, 17, 18, 19 AND 20), SUNBURY, VIC." THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

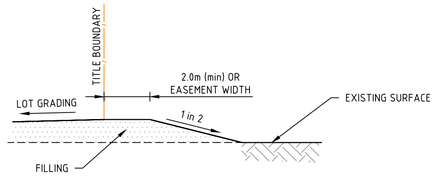
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ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO STANTEC AUSTRALIA PTY LTD AND COPIED TO SPIIRE.



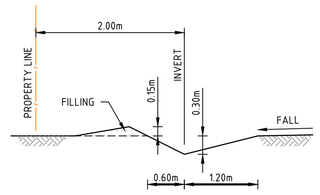
TYPICAL SECTION SWALE IN RESERVE



FILLING AT 38 SHEPARDS LANE PROPERTY BOUNDARY

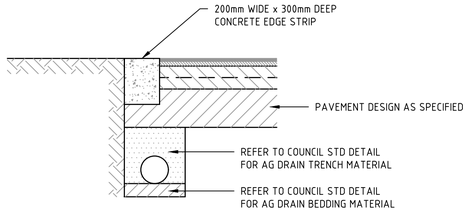


LOT FILLING AT STAGE BOUNDARY

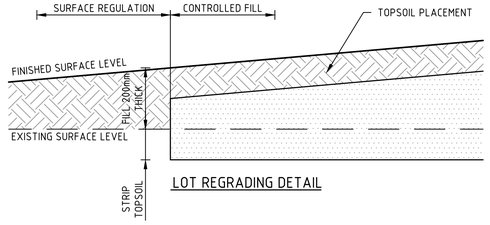


TYPICAL CATCH DRAIN SECTION

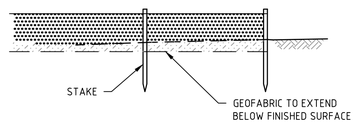
NOT TO SCALE



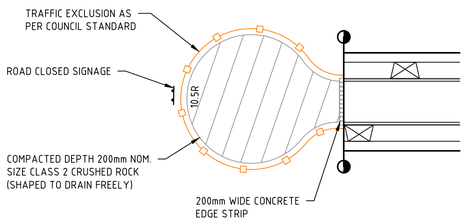
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



LOT REGRADING DETAIL

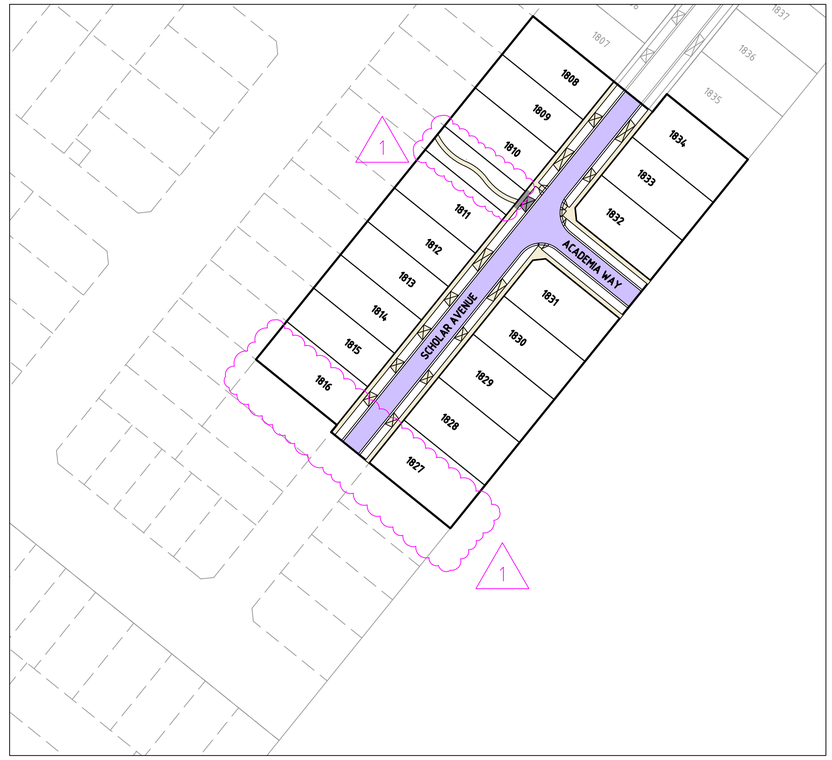


SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



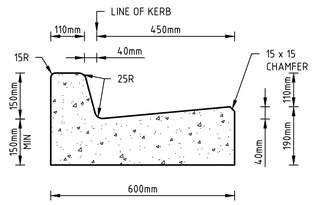
TEMPORARY TURNING AREA DETAIL

NOT TO SCALE



PAVEMENT PLAN

H 1:1000
SCALE @ A1
0 10 20 30 40 50



600 B2

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER EDCM STD DRAWING EDCM 301

H 1:100
SCALE @ A1
0 1 2 3 4 5

KERB NOTES:
1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE MINIMUM 150mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.
3. REFER TO EDCM 301 AND 302 FOR MORE DETAIL
4. THE 190mm FACE DIMENSION TO BE INCREASED TO 200mm WHERE A SAMI SEAL IS USED

Rev	Amendments	Approved	Date
1	STAGE BOUNDARY/RESERVE FP UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
C	DETAILS ADDED	L.T	05/02/26
B	PRINCIPAL BOULEVARD AMENDED, FILLING DETAIL & KERB NOTES ADDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale

dlca ISO 9001 certified ISO 45001 certified ISO 14001 certified
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Designed L.TRAN
Checked J.POYNER
Authorised M.RANJANAN
Date 21st October 2025

REDSTONE ESTATE STAGE 18B
ROAD AND DRAINAGE PAVEMENT AND TYPICAL DETAILS
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION
Drg No 310068CR700
Rev 1

file name 310068CR700.dwg Layout name CR700 plotted 9/16/2026 12:23 PM by Deepak Rawat
SHEET 11 OF 13 location C:\12dS\data\Spiire\SYN\310068-000 - Redstone\Stage 18B_820\Civil\ACAD



SIGNAGE SCHEDULE

REFERENCE	SIGN
1	
2	ROAD CLOSED G9-20
3	D4-5

NOTE: STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

Rev	Amendments	Approved	Date
1	STAGE BOUNDARY/RESERVE FP/TURNING HEAD UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
B	PRINCIPAL BOULEVARD AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500
SCALE @ A1
0 5 10 15 20 25

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Date 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

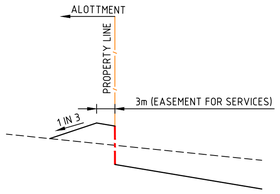
CONSTRUCTION Drg No **310068CR800** Rev **1**

file name 310068CR800.dwg layout name CR800 plotted 9/16/2026 12:23 PM by Deepak Rayat
location C:\12d\data\Spiire$VN\310068-000 - Redstone\Stage 18B_820\Civil\ACAD
SHEET 12 OF 13

LEGEND

DESCRIPTION	EXISTING	PROPOSED
RETAINING WALL ROCK WITH FENCE		
RETAINING WALL CONCRETE SLEEPER		

NOTE:
1. REFER TO MIGLIC MACLEOD STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS OF RETAINING WALLS
2. THE RETAINING WALL PLAN IS NOT PART OF THE SUBDIVISIONAL WORKS OR APPROVAL. IT IS SUBJECT TO SEPARATE APPROVAL. THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING DRAWINGS
3. SIDE BOUNDARY RETAINING WALLS ARE TO START AS ROCK RETAINING WALLS BEFORE TRANSITIONING AT 2m FROM THE ROAD RESERVE BOUNDARY AS SHOWN



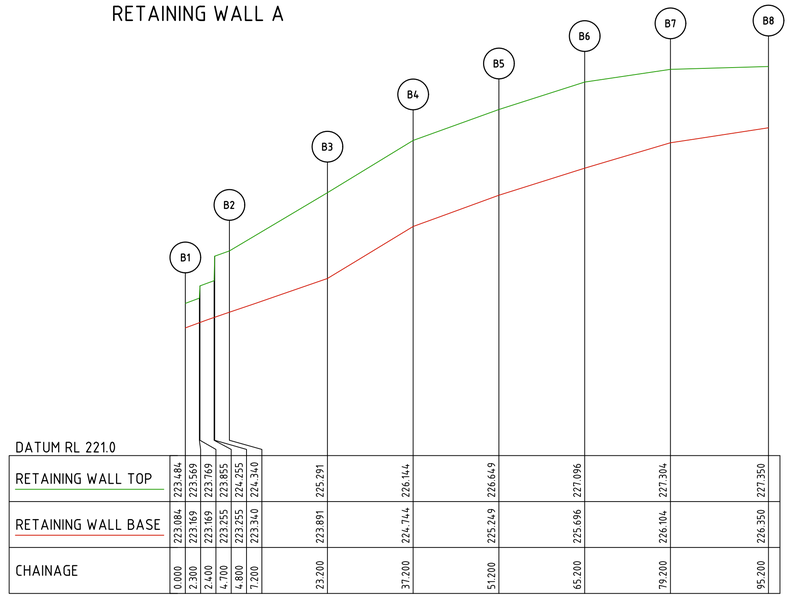
A SECTION (R960)

TRANSITION FROM RETAINING WALL TO EXISTING SURFACE WHERE TOP OF RETAINING IS ABOVE EXISTING SURFACE

DATUM RL 219.5

RETAINING WALL TOP	222.474	222.495	223.144	223.664	223.831	223.931	223.846	223.446	223.361	223.161	223.076
RETAINING WALL BASE	221.484	221.496	221.744	222.264	223.431	222.931	222.846	223.846	222.761	223.761	223.676
CHAINAGE	0.000	1.100	16.000	30.000	40.000	46.000	48.400	48.500	50.800	50.900	53.200

RETAINING WALL A

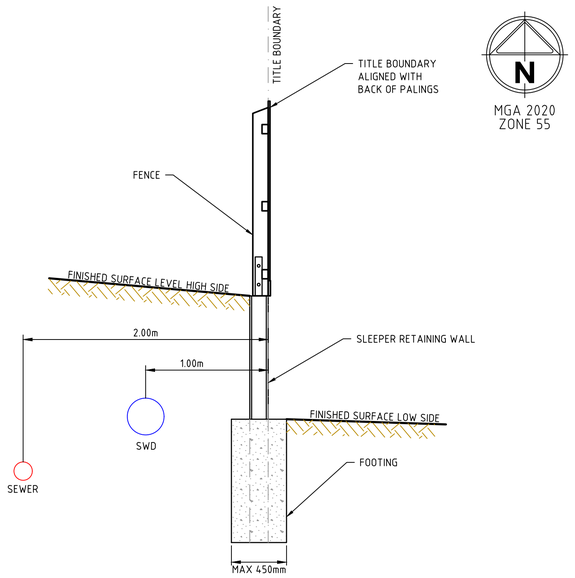


DATUM RL 221.0

RETAINING WALL TOP	223.484	223.569	223.769	223.855	224.255	224.340	225.291	226.144	226.649	227.096	227.304	227.350
RETAINING WALL BASE	223.084	223.169	223.169	223.255	223.255	223.340	223.891	224.744	225.249	225.696	226.104	226.350
CHAINAGE	0.000	2.300	2.400	4.700	4.800	7.200	23.200	37.200	51.200	65.200	79.200	95.200

RETAINING WALL B

H 1:500 SCALE @ A1 0 5 10 15 20 25
V 1:50 0 0.5 1 1.5 2 2.5



SLEEPER RETAINING WALL TYPICAL DETAIL

NOT TO SCALE

NOTES:
1. DRAIN AND SEWER DEPTH VARIES ACROSS SITE
2. DEPTH OF SERVICE MUST BE ABOVE ANGLE OF REPOSE OF RETAINING WALL FOOTING
3. MINIMUM COVER TO SERVICES IS 450mm
4. AG DRAINS TO CONNECT TO HIGH SIDE LOT OWNERS STORMWATER SYSTEM
5. ALL RETAINING WALLS WITH 1m OR GREATER HEIGHT REQUIRE BUILDING PERMITS

NOTE:
RETAINING WALL LEVELS PROVIDED IN LONG SECTION ABOVE ARE TO FINISHED SURFACE LEVELS. RETAINING WALLS BUILT ON SITE NEED TO CATER FOR LEVELS SHOWN.

Rev	Amendments	Approved	Date
1	STAGE BOUNDARY/RESERVE FP/RW LS UPDATED	M.R	16/09/26
0	ISSUED FOR CONSTRUCTION	M.R	01/06/26
C	RETAINING WALL ADDED	L.T	05/02/26
B	NOTES ADDED AND PRINCIPAL BOULEVARD AMENDED	L.T	26/11/25
A	ISSUED TO COUNCIL	M.R	21/10/25

Scale
H 1:500 SCALE @ A1 0 5 10 15 20 25

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Authorised M.RANJANAN
Date 21st October 2025

REDSTONE ESTATE
STAGE 18B
ROAD AND DRAINAGE
RETAINING WALLS
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

CONSTRUCTION Drg No **310068CR900** Rev **1**

file name 310068CP900.dwg layout name CP900 plotted 9/16/2026 12:23 PM by Deepak Rawat
location C:\12d\Data\Spiire\SYN\310068-000 - Redstone\Stage 18B_B20\Civil\ACAD
SHEET 13 OF 13