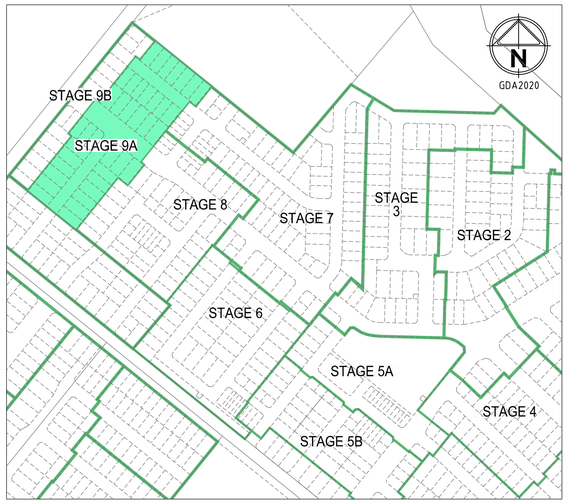
REDSTONE ESTATE STAGE 9A
VILLAWOOD PROPERTIES

HUME COUNCIL STANDARD NOTES:

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH VPA 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 PRECOMMENCEMENT MEETING BEING HELD BETWEEN HUME CITY COUNCIL, THE DEVELOPER'S 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 PRECOMMENCEMENT 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 TEST 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 OHS 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 (AHD).
10. ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA).
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 VPA 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 COUNCIL'S 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 NATURESTRIPS, 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 RUBISH, 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 FINE LEAF FESCUE.
   - 1500KG/HA OF CELLULOSE FIBRE
   - SOIL BINDER, SPECIFICALLY MANUFACTURED FOR HYDROMULCHING, USED AT MANUFACTURERS RECOMMENDED RATES. (E.G. ORGANIC GAUR TACKFIRES @ 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. 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 TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
26. WHERE NEW ASPHALT, CONCRETE K & C, 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 F.C.R. 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, EG 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 EDCM STANDARD DRAWING 202.
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 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 OF TITLE BOUNDARY ROAD FRONTAGE 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 AS2187.2-1993, 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.



LOCALITY PLAN

1:4000,A1
Horizontal 0 40 80 120 160 200
Vertical 0 40 80 120 160 200

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
305920R01	FACE SHEET	1	1
305920R02	DETAIL PLAN	2	1
305920R03	CROSS SECTIONS - SACRED DRIVE	3	0
305920R04	LONGITUDINAL & CROSS SECTIONS - SACRED DRIVE	4	0
305920R05	LONGITUDINAL & CROSS SECTIONS - KLONI STREET	5	0
305920R06	LONGITUDINAL & CROSS SECTIONS - VANGEL ROAD	6	0
305920R07	INTERSECTION DETAILS	7	0
305920R08	DRAINAGE LONGSECTIONS - SHEET 1 OF 3	8	0
305920R09	DRAINAGE LONGSECTIONS - SHEET 2 OF 3	9	0
305920R10	DRAINAGE LONGSECTIONS - SHEET 3 OF 3 & PIT SCHEDULE	10	0
305920R11	TYPICAL CROSS SECTIONS AND TYPICAL DETAILS	11	0
305920R12	PAVEMENT DETAILS	12	0
305920R13	SIGNAGE, LINEMARKING & CARPARKING PLAN	13	0
305920R14	RETAINING WALL DETAILS	14	0
305920R15	PASSIVE IRRIGATION DETAILS SHEET 1	15	0
305920R16	PASSIVE IRRIGATION DETAILS SHEET 2	16	0

SERVICES OFFSETS AND LOCATION TABLE

Location	WATER	ELECTRICITY		TELECOM
	DW	CABLES	POLE	
SACRED DRIVE	2.75 N	2.55 S	0.90 BOK	1.80 S
VANGEL ROAD	2.60 S	2.50 N	0.90 BOK	1.80 N
KLONI STREET	2.60 W	2.50 E	0.90 BOK	1.80 E

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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.

LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELECOMMUNICATIONS	OT	
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN		
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN	H	H
AG DRAIN AND FLUSHER		
MWC STORM WATER DRAIN & PIT		
MWC STORM WATER PITS		
STORM WATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		SAWCUT
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	169.00	169.00
SURFACE CONTOUR MAJOR	168.90	168.90
SURFACE LEVEL	123.45	FS124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
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		
ROCK BEACHING		
RETAINING WALL		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION		B2 SM2

Rev	Amendments	Approved	Date
1	DRAWING SCHEDULE UPDATED R01 & R02	M.T.S	15/11/22
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

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villawood properties
Communities Designed for Living

Redstone.
Your world awaits

Designed R. WEINBER
Checked D CAMERON
Authorised M. TOOMER-SMITH
Date 17/01/22

REDSTONE ESTATE
STAGE 9A
FACE SHEET

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION
Drg No **305920R01**
Rev **1**

SEWER BACKFILL NOTE:

REFER TO MRWA BACKFILL SPECIFICATION 04-03.1 FOR BACKFILLING AND EMBEDMENT DETAILS FOR SEWERS CONSTRUCTED UNDER ROADS AND FOOTPATHS.

LEGEND	
DESCRIPTION	PROPOSED
PSSIVE IRRIGATION TREE PIT TYPE 1 (1.5m PIT & 2.0m TRENCH) REFER SHEET 20 FOR DETAILS	

Rev	Amendments	Approved	Date
1	LOT 905 DRIVEWAY COMBINED WITH 904	M.T.S	15/11/22
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

1:500,A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

dlcs AS/NZS ISO 9001 certified AS/NZS 14001 certified AS/NZS ISO 45001 certified

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Checked D CAMERON
Authorised M. TOOMER-SMITH
Date 17/01/22

REDSTONE ESTATE STAGE 9A
ROAD & DRAINAGE FACE PLAN

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION
Drg No 305920R02
Rev 1

STRUCTURAL FILL
IN ACCRORDANCE
WITH AS3798-2007,
LEVEL 1.

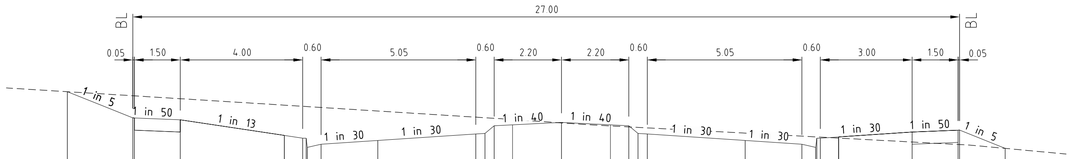
ALLOTMENT GRADE NOTE

FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE

IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE



DATUM 220

| | | |

STRUCTURAL FILL
IN ACCRORDANCE
WITH AS3798-2007,
LEVEL 1.

ALLOTMENT GRADE NOTE

FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE

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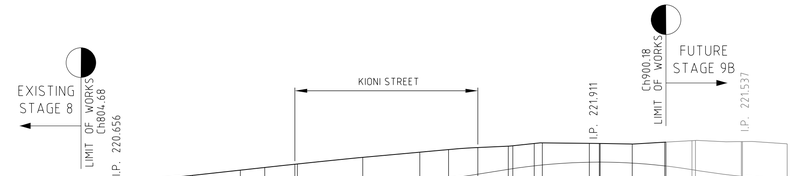
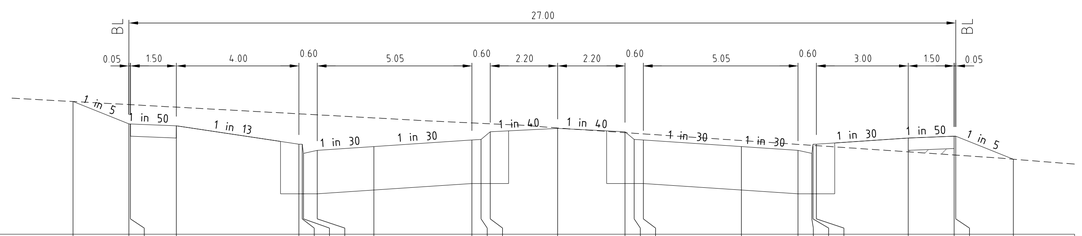


HORIZONTAL CURVE
VC LENGTH 25.00m V.C. 30.00m V.C. 15.00m V.C.
DESIGN CL GRADE 1.166 % 1.587 % -1.619 % -0.500 %

DATUM 218.5

CHAINAGE	DESIGN CL SURFACE LEVEL	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB	EXISTING SURFACE RIGHT BOUNDARY	EXISTING SURFACE LEFT BOUNDARY
794.44	220.470	220.113	220.113	220.384	221.296
797.88	220.510	220.153	220.153	220.420	221.343
798.68	220.520	220.162	220.162	220.429	221.354
800.00	220.535	220.178	220.178	220.443	221.372
804.68	220.593	220.236	220.236	220.499	221.425
810.38	220.669	220.312	220.312	220.576	221.465
814.68	220.730	220.373	220.373	220.634	221.490
820.00	220.809	220.452	220.452	220.690	221.543
820.68	220.820	220.462	220.462	220.696	221.550
822.88	220.854	220.497	220.497	220.716	221.574
830.68	220.978	220.621	220.621	220.786	221.660
834.68	221.042	220.684	220.684	220.825	221.704
LTP 839.60	221.120	220.762	220.762	220.858	221.756
840.00	221.126	220.769		220.860	221.761
850.68	221.296	220.938		220.952	221.868
860.00	221.443	221.086		221.062	221.952
864.68	221.518	221.160		221.141	221.995
LTP 869.46	221.594	221.236	221.236	221.232	222.028
874.45	221.673	221.315	221.315	221.253	222.052
875.18	221.684	221.327	221.327	221.254	222.058
878.68	221.730	221.373	221.373	221.249	222.095
880.00	221.744	221.387	221.387	221.247	222.105
887.68	221.789	221.432	221.432	221.252	222.096
889.30	221.791	221.433	221.433	221.259	222.095
889.45	221.790	221.433	221.433	221.259	222.095
894.68	221.775	221.418	221.418	221.278	222.086
900.00	221.729	221.372	221.372	221.291	222.115
900.18	221.727	221.370	221.370	221.292	222.117
904.45	221.668	221.311	221.311	221.297	222.141
905.00	221.659	221.302	221.302	221.298	222.144
912.50	221.558	221.201	221.201	221.307	222.125
912.68	221.557	221.199	221.199	221.307	222.126
919.99	221.500	221.143	221.143	221.260	222.089

SACRED DRIVE

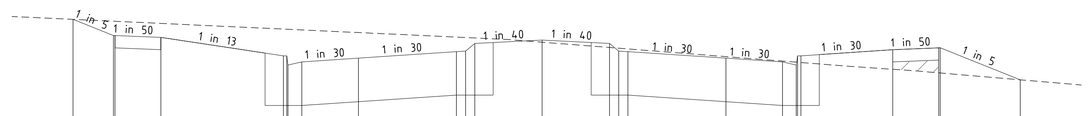


DATUM 220

OFFSET	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
-15.827	222.166	222.166
-14.000	221.801	222.117
-13.950	221.800	222.115
-12.450	221.770	222.074
-8.450	221.470	221.965
-8.340	221.470	221.963
-8.300	221.320	221.961
-7.850	221.310	221.949
-6.000	221.432	221.899
-2.800	221.538	221.817
-2.500	221.547	221.810
-2.200	221.672	221.803
0.000	221.727	221.734
2.200	221.672	221.658
2.500	221.547	221.648
2.800	221.538	221.638
6.000	221.432	221.529
7.850	221.370	221.467
8.300	221.320	221.451
8.340	221.470	221.450
8.450	221.470	221.446
11.450	221.570	221.345
12.950	221.600	221.294
13.000	221.601	221.292
14.884	221.224	221.224

SACRED DRIVE

Ch 900.18



DATUM 220

OFFSET	DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
-15.321	222.127	222.127
-14.000	221.863	222.096
-13.950	221.862	222.095
-12.450	221.832	222.061
-8.450	221.532	221.968
-8.340	221.532	221.966
-8.300	221.382	221.965
-7.850	221.432	221.954
-6.000	221.493	221.912
-2.800	221.600	221.837
-2.500	221.609	221.830
-2.200	221.734	221.823
0.000	221.789	221.754
2.200	221.734	221.668
2.500	221.609	221.656
2.800	221.600	221.644
6.000	221.493	221.519
7.850	221.432	221.446
8.300	221.382	221.428
8.340	221.532	221.427
8.450	221.532	221.422
11.450	221.632	221.312
12.950	221.662	221.254
13.000	221.663	221.252
15.614	221.140	221.140

SACRED DRIVE

Ch 887.68

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:100, V 1:50, A1 (CROSS SECTIONS)
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

Scale H 1:500, V 1:50, A1 (LONG SECTIONS)
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

DATUM GDA2020

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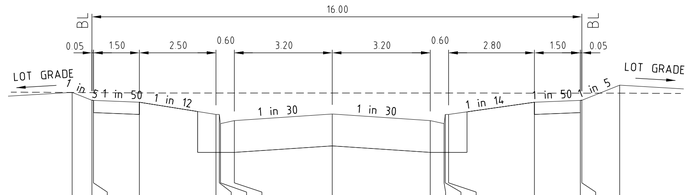
villawood properties
Communities Designed for Living

Redstone.
Your world awaits

Designed R. WEINBER
Checked D. CAMERON
Authorised M. TOOMER-SMITH
Date 17/01/22

REDSTONE ESTATE
STAGE 9A
LONGITUDINAL & CROSS SECTIONS
SACRED DRIVE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R04** Rev **0**

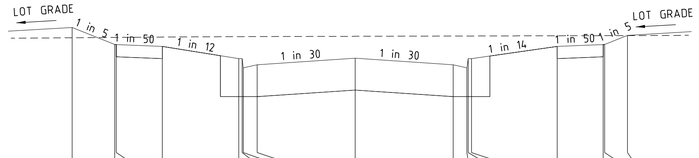


DATUM 222

DESIGN SURFACE LEVEL	223.727	223.598	223.597	223.567	223.367	223.367	223.217	223.267	223.373	223.267	223.217	223.367	223.367	223.567	223.597	223.598	223.844							
EXISTING SURFACE LEVEL	223.725	223.723	223.723	223.718	223.716	223.716	223.716	223.716	223.716	223.716	223.716	223.716	223.716	223.715	223.714	223.714	223.714							
OFFSET	-8.495	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.600	8.100	8.150	9.384							

KLONI STREET

Ch 105.11

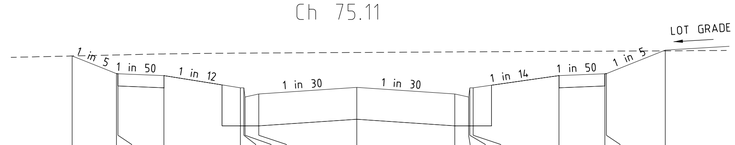


DATUM 221

DESIGN SURFACE LEVEL	223.291	223.013	223.012	222.982	222.782	222.782	222.632	222.682	222.789	222.682	222.632	222.782	222.782	222.982	223.012	223.013	223.162							
EXISTING SURFACE LEVEL	223.123	223.128	223.129	223.134	223.141	223.141	223.142	223.142	223.147	223.151	223.152	223.152	223.152	223.156	223.158	223.158	223.159							
OFFSET	-9.240	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.600	8.100	8.150	8.893							

KLONI STREET

Ch 75.11

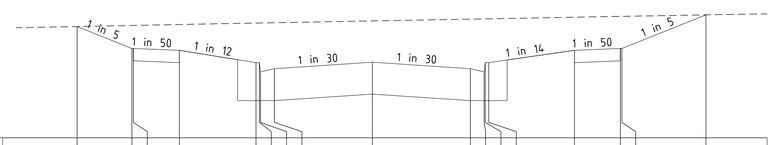


DATUM 221

DESIGN SURFACE LEVEL	222.545	222.256	222.255	222.225	222.025	222.025	221.875	221.925	222.032	221.925	221.875	222.025	222.025	222.225	222.255	222.256	222.641							
EXISTING SURFACE LEVEL	222.545	222.561	222.562	222.578	222.591	222.592	222.592	222.593	222.602	222.611	222.612	222.612	222.613	222.621	222.624	222.624	222.628							
OFFSET	-9.295	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.600	8.100	8.150	10.073							

KLONI STREET

Ch 43.11

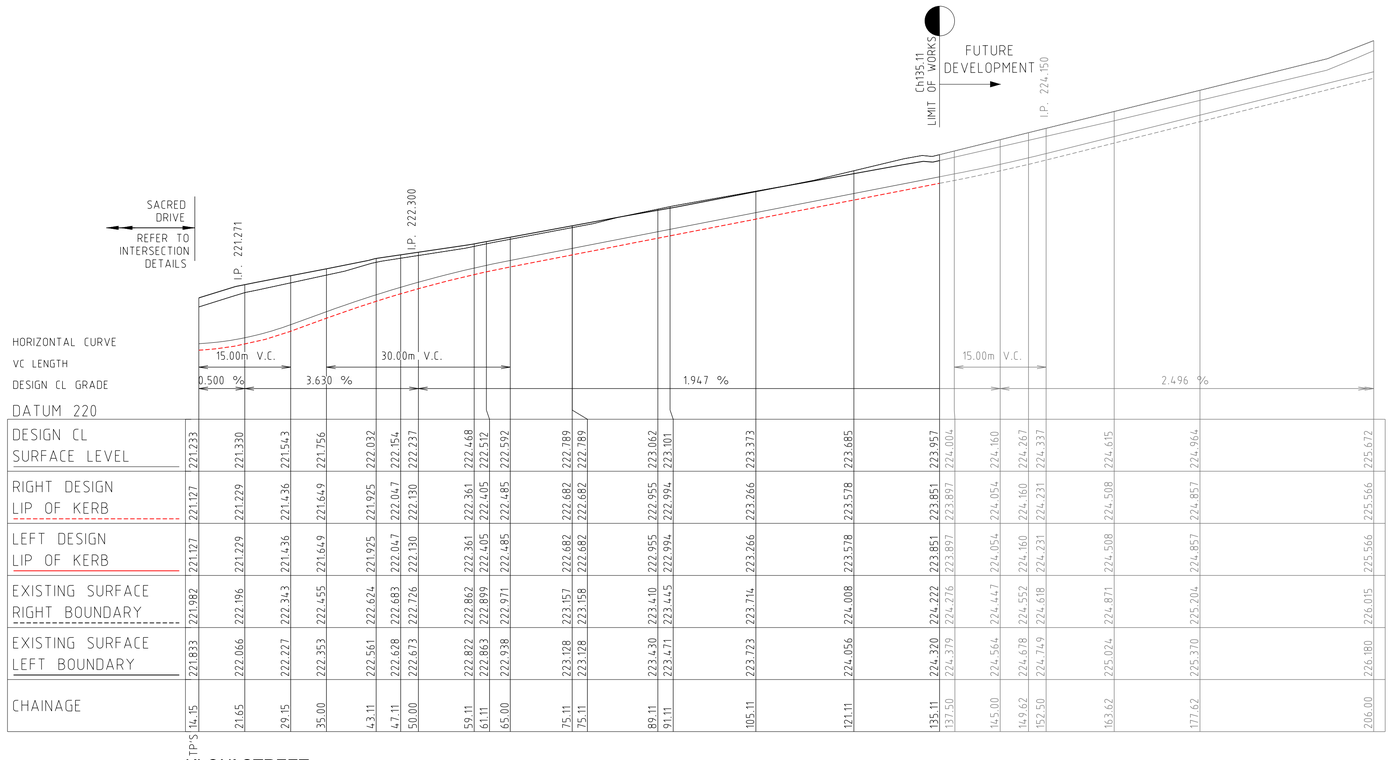


DATUM 220

DESIGN SURFACE LEVEL	221.816	221.458	221.457	221.427	221.227	221.227	221.077	221.127	221.233	221.127	221.077	221.222	221.227	221.427	221.457	221.458	222.006							
EXISTING SURFACE LEVEL	221.816	221.833	221.834	221.849	221.873	221.874	221.874	221.878	221.907	221.936	221.940	221.941	221.942	221.968	221.981	221.982	222.006							
OFFSET	-9.639	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.600	8.100	8.150	10.893							

KLONI STREET

Ch 14.15

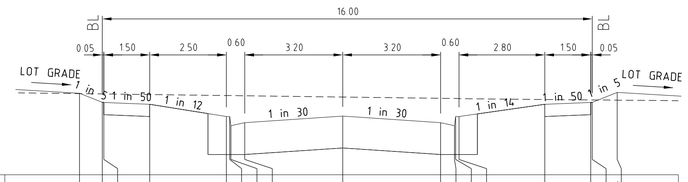


DATUM 220

DESIGN CL SURFACE LEVEL	221.233	221.330	221.543	221.756	222.032	222.154	222.237	222.468	222.512	222.592	222.789	222.789	223.062	223.101	223.373	223.685	223.957	224.004	224.160	224.267	224.337	224.615	224.964	225.672
RIGHT DESIGN LIP OF KERB	221.127	221.229	221.436	221.649	221.925	222.047	222.130	222.361	222.405	222.485	222.682	222.682	222.955	222.994	223.266	223.578	223.851	223.897	224.054	224.160	224.231	224.508	224.857	225.566
LEFT DESIGN LIP OF KERB	221.127	221.229	221.436	221.649	221.925	222.047	222.130	222.361	222.405	222.485	222.682	222.682	222.955	222.994	223.266	223.578	223.851	223.897	224.054	224.160	224.231	224.508	224.857	225.566
EXISTING SURFACE RIGHT BOUNDARY	221.982	222.196	222.343	222.455	222.624	222.683	222.726	222.862	222.899	222.971	223.157	223.158	223.410	223.445	223.714	224.008	224.222	224.216	224.447	224.552	224.618	224.871	225.204	226.015
EXISTING SURFACE LEFT BOUNDARY	221.833	222.066	222.227	222.353	222.561	222.628	222.673	222.822	222.863	222.938	223.128	223.128	223.430	223.471	223.723	224.056	224.320	224.379	224.564	224.678	224.749	225.024	225.370	226.180
CHAINAGE	14.15	21.65	29.15	35.00	43.11	47.11	50.00	59.11	61.11	65.00	75.11	75.11	89.11	91.11	105.11	121.11	135.11	137.50	145.00	149.62	152.50	163.62	177.62	206.00

T P S

KLONI STREET



DATUM 223

DESIGN SURFACE LEVEL	224.331	224.182	224.181	224.151	223.951	223.951	223.801	223.851	223.957	223.851	223.801	223.951	223.951	224.151	224.181	224.182	224.344							
EXISTING SURFACE LEVEL	224.324	224.320	224.319	224.310	224.293	224.293	224.292	224.290	224.269	224.248	224.245	224.245	224.244	224.229	224.222	224.222	224.218							
OFFSET	-8.595	-7.850	-7.800	-6.300	-3.800	-3.690	-3.650	-3.200	0.000	3.200	3.650	3.690	3.800	6.600	8.100	8.150	8.963							

KLONI STREET

Ch 135.11

STRUCTURAL FILL IN ACCRORDANCE WITH AS3798-2007, LEVEL 1.

ALLOTMENT GRADE NOTE

FINISHED SURFACE GRADE VARIES ALONG ALLOTMENT FRONTAGE, PROFILE INDICATED THUS: LOT GRADE

(ALLOTMENT MINIMUM GRADE 1 IN 150)

ALLOTMENT BATTER NOTE

IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:100, V 1:50,A1 (CROSS SECTIONS)
Horizontal 0 1 2 3 4 5
Vertical 0 0.5 1.0 1.5 2.0 2.5

Scale H 1:500, V 1:50, A1 (LONG SECTIONS)
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5
DATUM GDA2020

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villawood properties — Communities Designed for Living

Redstone. Your world awaits

Designed: R. WEINBER
Checked: D. CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE
STAGE 9A
LONGITUDINAL & CROSS SECTIONS
KLONI STREET
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION
Drg No **305920R05**
Rev **0**

STRUCTURAL FILL
IN ACCRORDANCE
WITH AS3798-2007,
LEVEL 1.

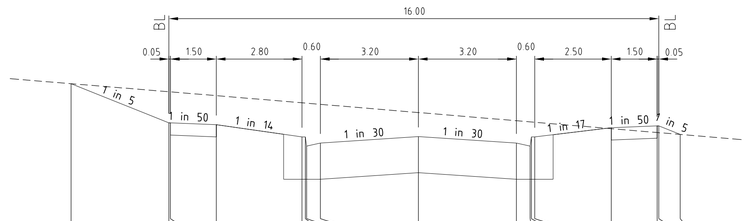
ALLOTMENT GRADE NOTE

FINISHED SURFACE GRADE VARIES
ALONG ALLOTMENT FRONTAGE, PROFILE
INDICATED THUS: LOT GRADE

(ALLOTMENT MINIMUM GRADE 1 IN 150)

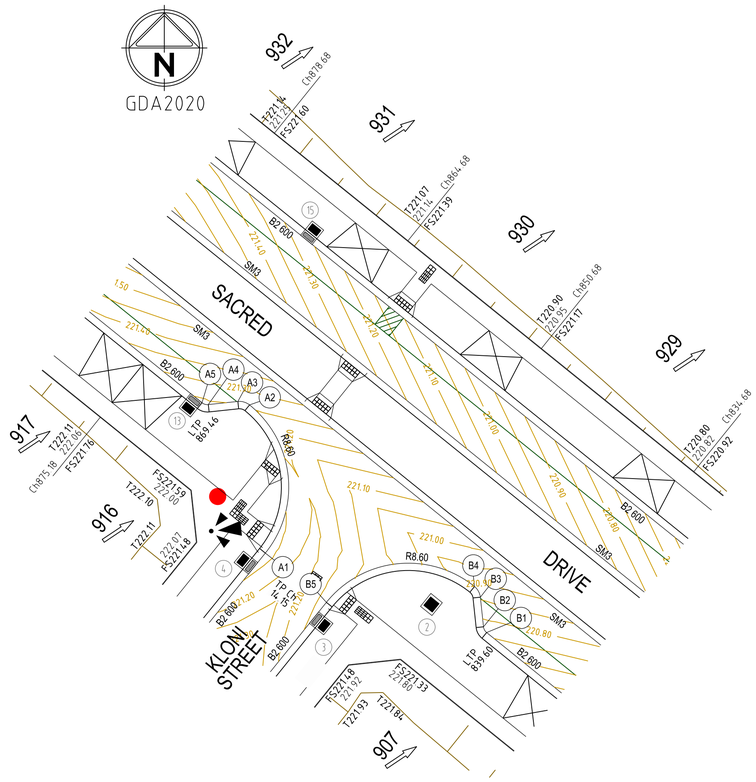
ALLOTMENT BATTER NOTE

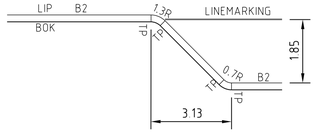
IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE



DATUM 216

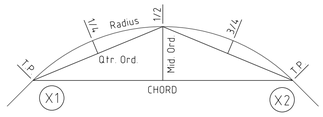
| | | |



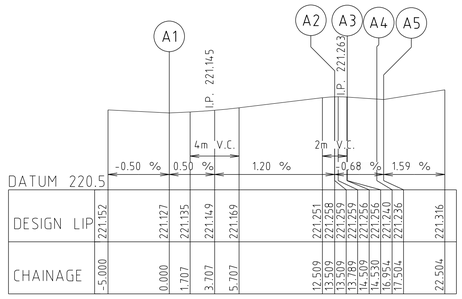


TYPICAL KERB INDENT DETAIL

N.T.S



KERB RETURN SETOUT DETAIL

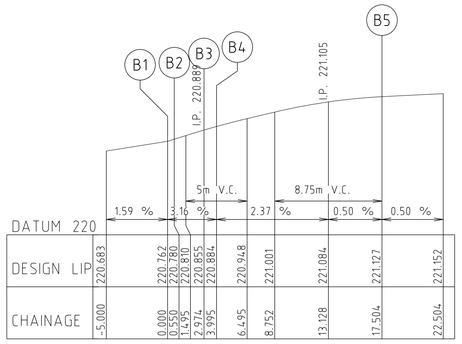


LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	301792.239	5836229.280	221.127
1/4	301793.796	5836232.253	221.146
1/2	301794.098	5836235.594	221.182
3/4	301793.097	5836238.797	221.223
A2	301790.947	5836241.374	221.259
1/4	301790.734	5836241.514	221.259
1/2	301790.498	5836241.609	221.259
3/4	301790.248	5836241.657	221.258
A3	301789.993	5836241.655	221.256
A4	301787.582	5836241.397	221.240
1/4	301787.445	5836241.396	221.239
1/2	301787.310	5836241.422	221.238
3/4	301787.183	5836241.473	221.237
A5	301787.068	5836241.549	221.236

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655
A2-A3	1.300	1.021	0.995	0.099	-0.025
A4-A5	0.700	0.550	0.536	0.053	0.013



LIP LINE B
Hor250
Ver25

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	301810.303	5836222.798	220.762
1/4	301810.205	5836222.894	220.767
1/2	301810.128	5836223.007	220.771
3/4	301810.074	5836223.134	220.775
B2	301810.046	5836223.268	220.780
B3	301809.789	5836225.678	220.855
1/4	301809.737	5836225.928	220.862
1/2	301809.638	5836226.163	220.869
3/4	301809.494	5836226.373	220.877
B4	301809.313	5836226.552	220.884
1/4	301806.340	5836228.110	220.969
1/2	301802.998	5836228.411	221.044
3/4	301799.795	5836227.411	221.098
B5	301797.219	5836225.261	221.127

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	0.700	0.550	0.536	0.053	0.013
B3-B4	1.300	1.021	0.995	0.099	-0.025
B4-B5	8.600	13.509	12.162	2.519	-0.655

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25
DATUM GDA2020

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villawood properties — Communities Designed for Living
Redstone. Your world awaits

Designed: R. WEINBER
Checked: D. CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE STAGE 9A
INTERSECTION DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

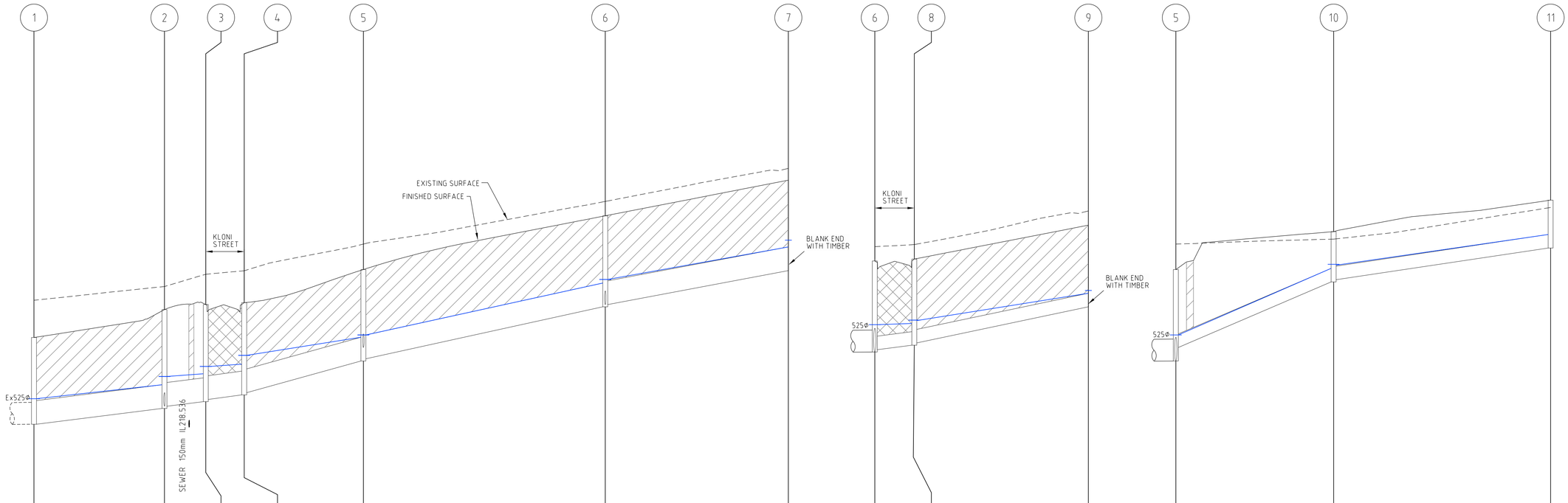
CONSTRUCTION Drg No **305920R07** Rev **0**

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:

1. ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
   a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.
   b) DEFLECTION ACHIEVED WITHIN RRJ.



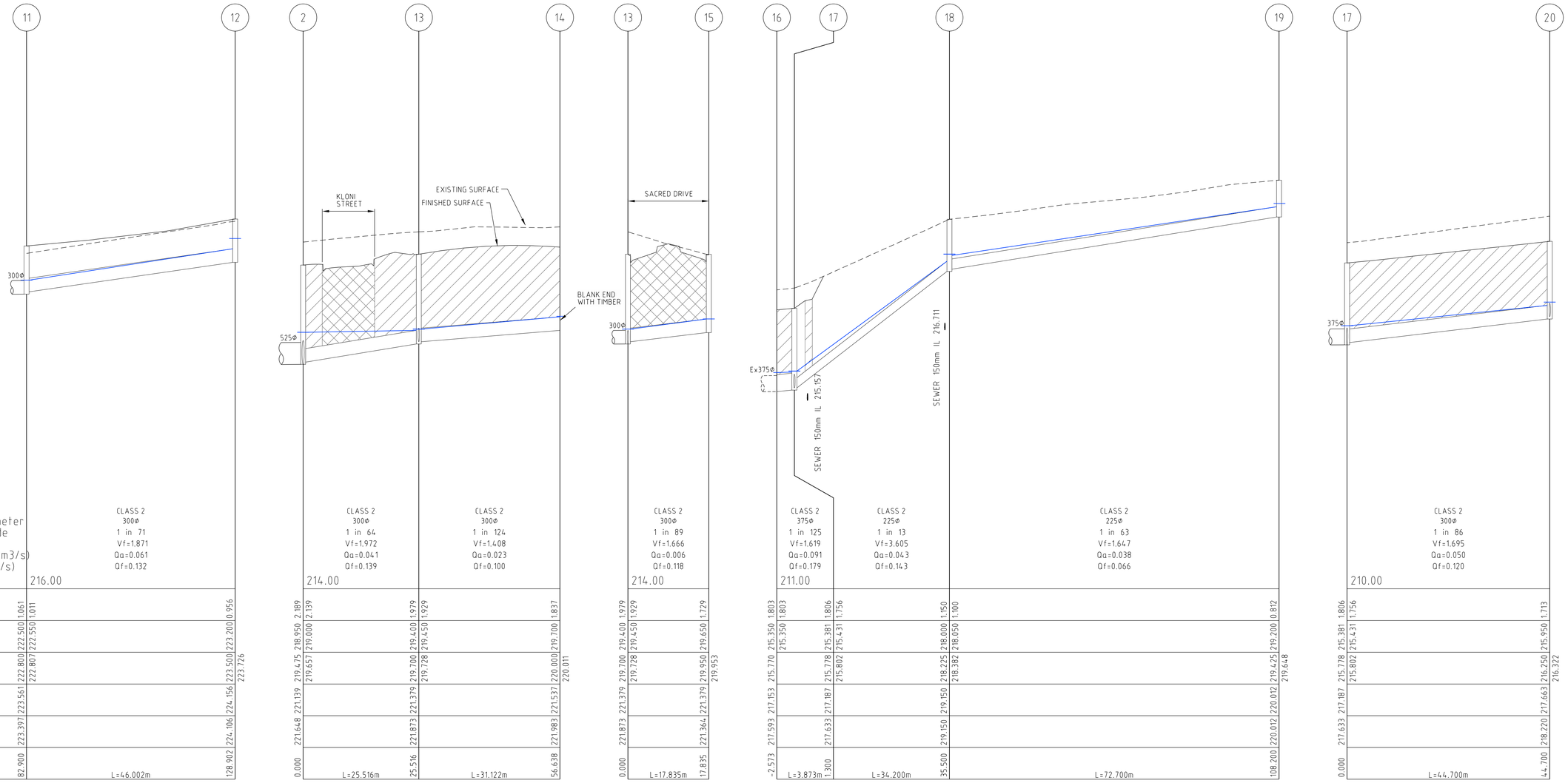
| | | |

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:

1. ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
   a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.
   b) DEFLECTION ACHIEVED WITHIN RRJ.



Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5
DATUM GDA2020

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villawood properties — Communities Designed for Living

Redstone. Your world awaits

Designed: R. WEINBER
Checked: D. CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE STAGE 9A
DRAINAGE LONG SECTION
SHEET 2 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

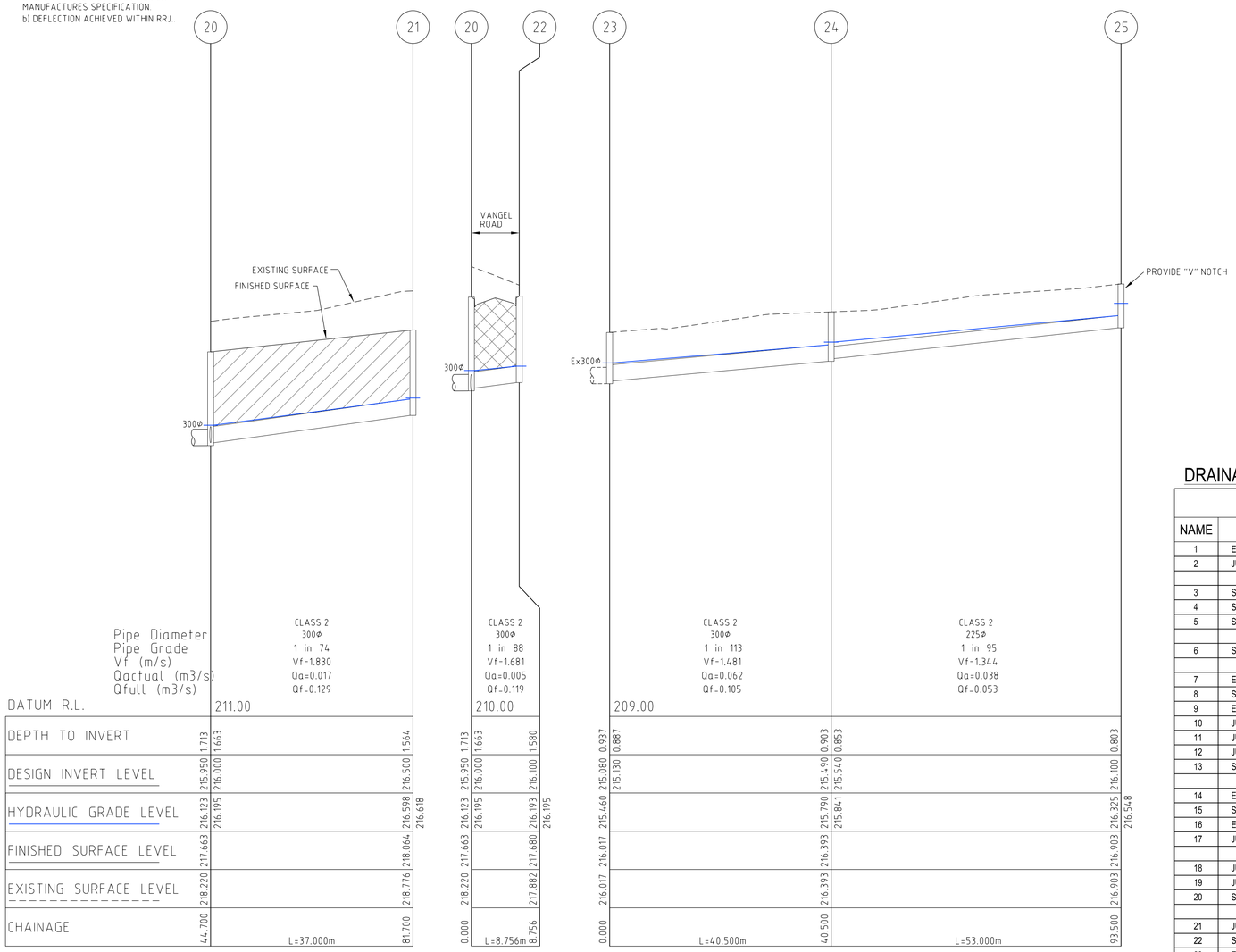
CONSTRUCTION
Drg No **305920R09**
Rev **0**

CLASS 2 CRUSHED ROCK

CLASS 3 CRUSHED ROCK

NOTE:

1. ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.
2. DRAINAGE PIPES GREATER THAN 750Φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
3. CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
   a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.
   b) DEFLECTION ACHIEVED WITHIN RRJ.



DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING JUNCTION PIT			525	218.600			220.521	1.921	CONNECT TO EXISTING 525 STUB
2	JUNCTION PIT	900	900	525	219.000	525	218.950	221.139	2.189	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	219.000					
3	SIDE ENTRY PIT GRATED	900	900	525	219.150	525	219.100	221.250	2.150	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
4	SIDE ENTRY PIT GRATED	900	900	525	219.300	525	219.250	221.292	2.042	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
5	SIDE ENTRY PIT GRATED	900	900	525	220.050	525	220.000	222.024	2.024	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	220.300					
6	SIDE ENTRY PIT GRATED	900	900	525	221.250	525	221.200	223.214	2.014	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	221.250					
7	ENDPIPE					525	222.000	224.002	2.002	BLANK END WITH MARINE PLY
8	SIDE ENTRY PIT GRATED	900	600	300	221.400	300	221.350	223.256	1.906	REFER DRAWING - EDCM 601
9	ENDPIPE					300	222.200	224.006	1.806	BLANK END WITH MARINE PLY
10	JUNCTION PIT	900	600	300	221.800	300	221.750	222.864	1.114	REFER DRAWING - EDCM 605
11	JUNCTION PIT	900	600	300	222.550	300	222.500	223.561	1.061	REFER DRAWING - EDCM 605
12	JUNCTION PIT	900	600			300	223.200	224.156	0.956	REFER DRAWING - EDCM 605
13	SIDE ENTRY PIT GRATED	900	600	300	219.450	300	219.400	221.379	1.979	REFER DRAWING - EDCM 601 PROVIDE HD COVER
				300	219.450					
14	ENDPIPE					300	219.700	221.537	1.837	
15	SIDE ENTRY PIT GRATED	900	600			300	219.650	221.379	1.729	REFER DRAWING - EDCM 601
16	EXISTING ENDPIPE			375	215.350			217.153	1.803	CONNECT TO EXISTING ENDPIPE
17	JUNCTION PIT	900	600	225	215.431	375	215.381	217.187	1.806	REFER DRAWING - EDCM 605
				300	215.431					
18	JUNCTION PIT	900	600	225	218.050	225	218.000	219.150	1.150	REFER DRAWING - EDCM 605
19	JUNCTION PIT	900	600			225	219.200	220.012	0.812	REFER DRAWING - EDCM 605
20	SIDE ENTRY PIT GRATED	900	600	300	216.000	300	215.950	217.663	1.713	REFER DRAWING - EDCM 601
				300	216.000					
21	JUNCTION PIT	900	600			300	216.500	218.064	1.564	REFER DRAWING - EDCM 605
22	SIDE ENTRY PIT GRATED	900	600			300	216.100	217.680	1.580	REFER DRAWING - EDCM 601
23	EXISTING ENDPIPE			300	215.082			216.017	0.935	CONNECT TO EXISTING ENDPIPE
24	JUNCTION PIT	900	600	225	215.540	300	215.490	216.393	0.903	REFER DRAWING - EDCM 605
25	JUNCTION PIT					225	216.100	216.903	0.803	REFER DRAWING - EDCM 605 PROVIDE "V" NOTCH ON NW WALL

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:500, V 1:50, A1
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5
DATUM GDA2020

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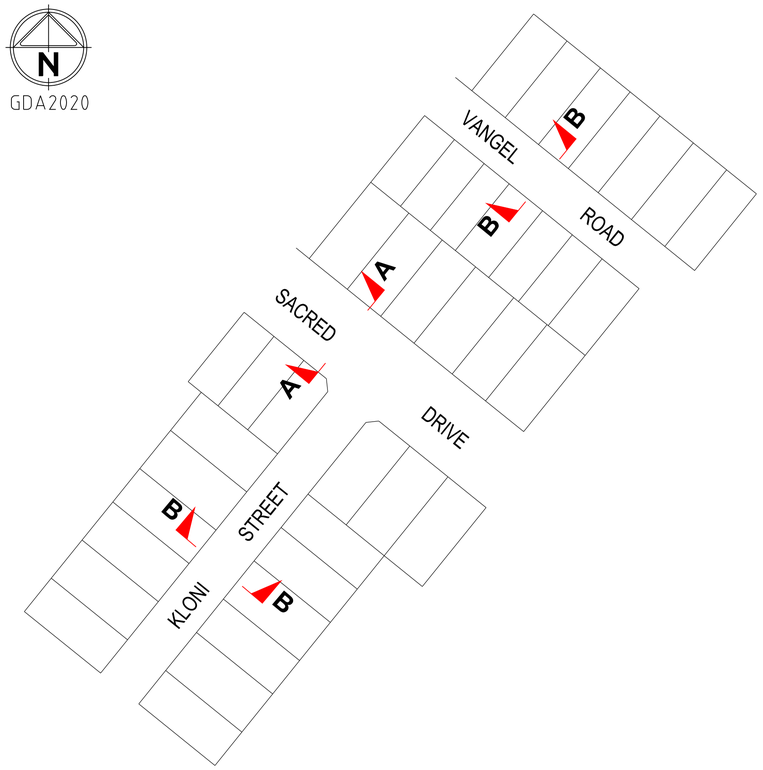
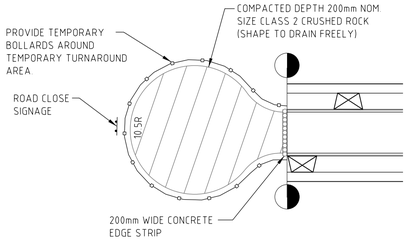
Designed R. WEINBER
Checked D. CAMERON
Authorised M. TOOMER-SMITH
Date 17/01/22

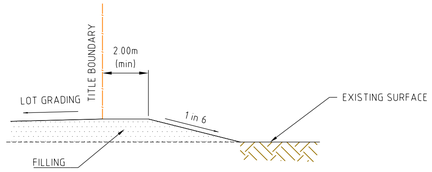
REDSTONE ESTATE STAGE 9A
DRAINAGE LONG SECTION SHEET 3 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R10** Rev **0**



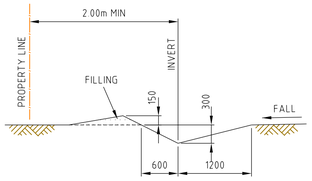


TEMPORARY TURNING AREA DETAIL



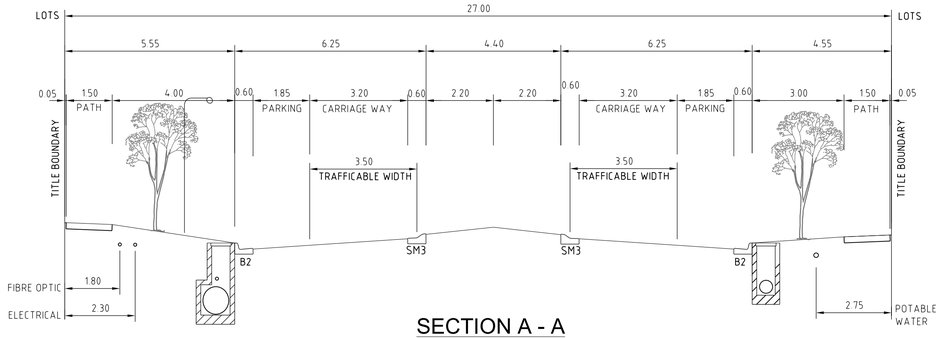
LOT FILLING AT STAGE BOUNDARY

N.T.S

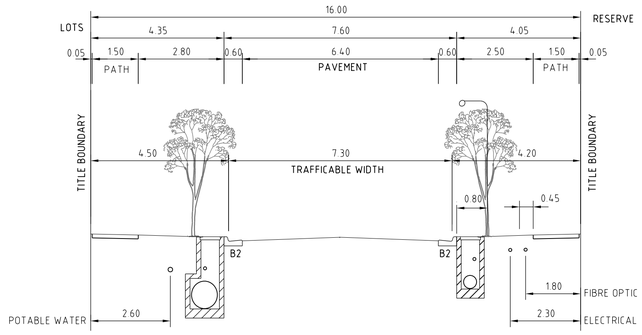


TYPICAL CATCH DRAIN SECTION

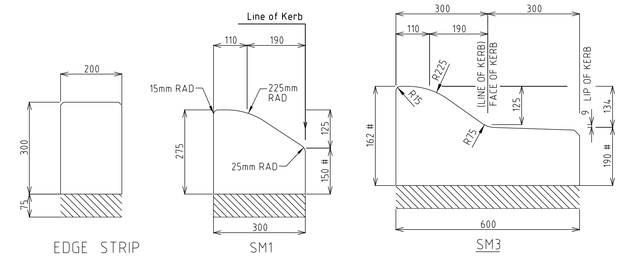
N.T.S

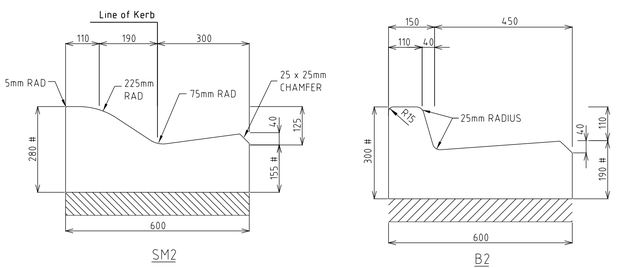


SECTION A - A
TYPICAL 27.00m ROAD RESERVE
SACRED DRIVE



SECTION B - B
TYPICAL 16.00m ROAD RESERVE
VANGEL ROAD & KLONI STREET



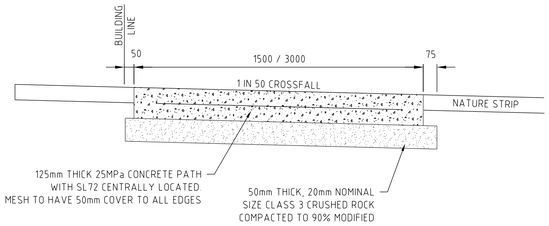


STANDARD KERB PROFILES

NOT TO SCALE

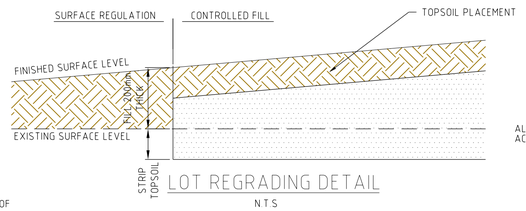
NOTES:

1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
2. ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.
3. DIMENSION SHOWN # DEPTH TO TO BE ADJUSTED TO ACCOMODATE SAMI SEAL LAYER.



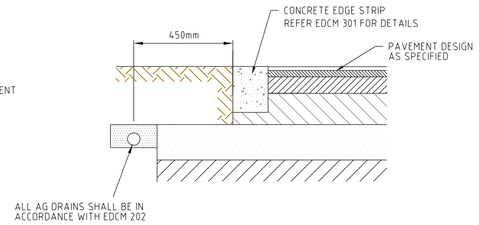
TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION

N.T.S



LOT REGRADING DETAIL

N.T.S



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL

N.T.S

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

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Designed: R. WEINBER
Checked: D CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE STAGE 9A
TYPICAL CROSS SECTIONS AND TYPICAL DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R11** Rev **0**

DESIGN PAVEMENT PROFILE FOR AREA 2

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) AREA 2
WEARING COURSE	Size 10mm Type L Asphalt with a C320 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C320 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (Standard Quality)	20mm nominal size 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
	UPPER PAVEMENT TOTAL	200
SUB-BASE COURSE (Standard Quality)	20mm nominal size 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
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 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 and a percentage swell of less than 1.5%	160
CONSTRUCTION LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 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 and a percentage swell of less than 1.5%	150
	TOTAL PAVEMENT DEPTH	610
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR = 3.0%) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 4

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm) AREA 4
WEARING COURSE	Size 14mm Type N Asphalt with a C320 binder	40
STRUCTURAL COURSE	Size 14mm Type HP Asphalt with a A10E binder	40
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (High Quality)	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	110
	UPPER PAVEMENT TOTAL	200
SUB-BASE COURSE (High Quality)	20mm nominal size Class 3 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	160
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 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 and a percentage swell of less than 1.5%	200
CONSTRUCTION LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 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 and a percentage swell of less than 1.5%	150
	TOTAL PAVEMENT DEPTH	710
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR = 3.0%) within 2% of the Standard Optimum Moisture Content	

NOTES

SUB SURFACE DRAINAGE

SUB SURFACE DRAINAGE TO BE CONSTRUCTED AS PER EDCM STANDARD DRAWING 202a

NOTE FOR SAMI TREATMENT

DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH VICROADS STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 408 AND THE CURRENT AUSTROADS SPRAYED SEAL DESIGN METHOD.

PAVEMENT MAKEUP
NOT TO SCALE

PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE CARDNO VICTORIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION FOR PROPOSED RESIDENTIAL SUBDIVISION REDSTONE HILL SUNBURY SOUTH" V180556 REPORT 013. THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST.

SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS.
ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO CARDNO VICTORIA PTY LTD AND SENT TO SPIIRE.

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

1:500,A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

dlcs AS/NZS ISO 9001 certified AS/NZS ISO 14001 certified AS/NZS ISO 45001 certified

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Designed R. WEINBER
Checked D CAMERON
Authorised M. TOOMER-SMITH
Date 17/01/22

REDSTONE ESTATE STAGE 9A
PAVEMENT DETAILS

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R12** Rev **0**

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

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DATUM GDA2020

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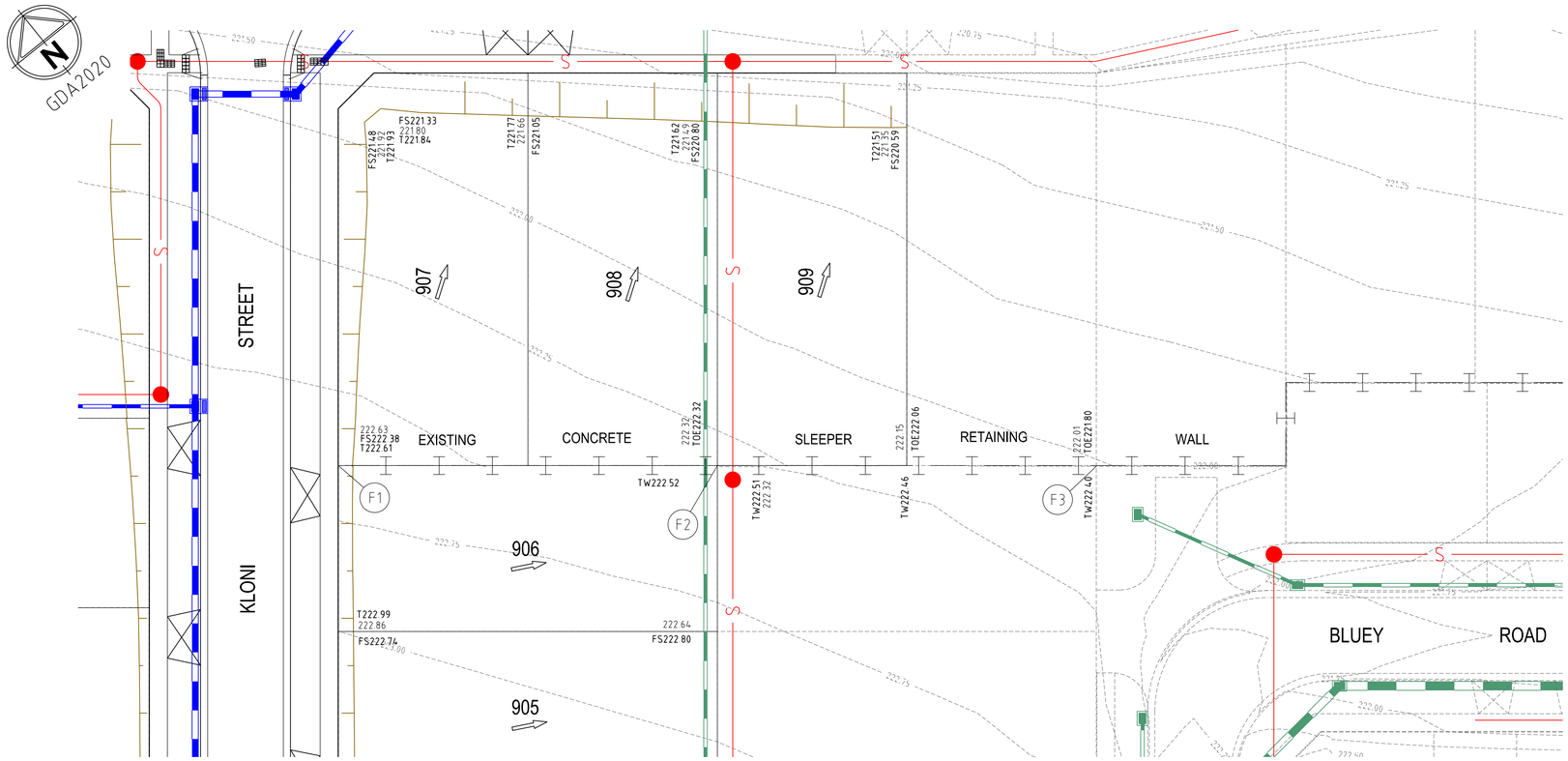
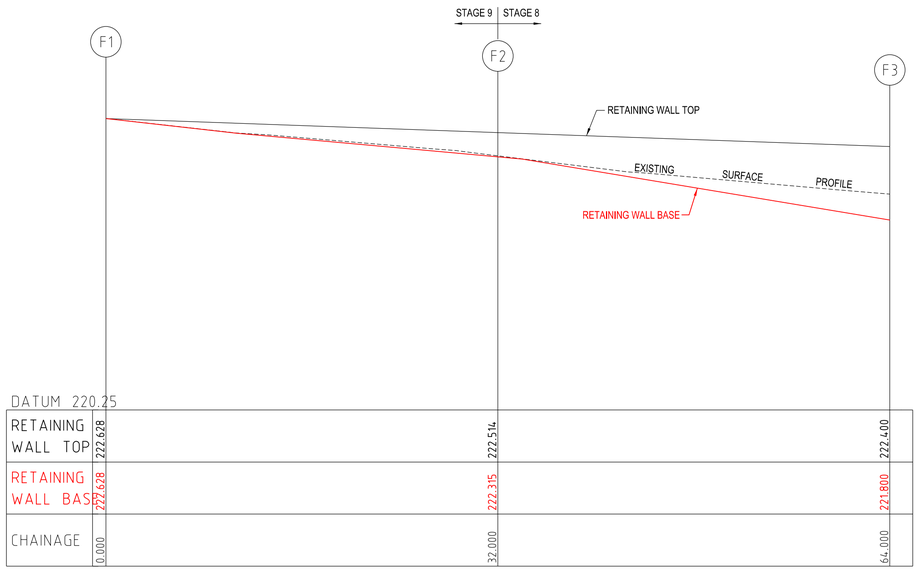
Checked: D CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE STAGE 9A
SIGNAGE, LINEMARKING & CARPARKING PLAN

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R13** Rev **0**





RETAINING WALL F
Hor250
Ver25

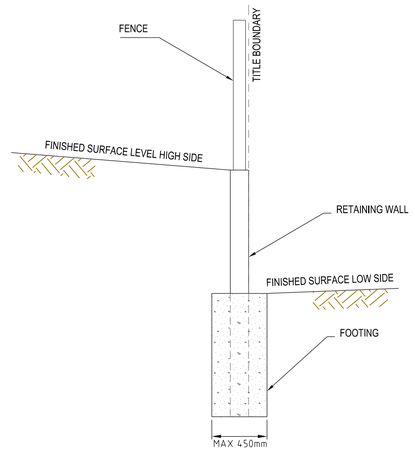
LEGEND SPOT LEVLES

TW = TOP WALL LEVEL
TOE = TOE WALL LEVEL
FS = TITLE BOUNDARY FINISHED LEVEL

NOTE:
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.

NOTE:
FOR LEVELS OF RETAINING WALLS FRONTING STREETS , REFER TO RELEVANT ROAD/STREET LONGITUDINAL SECTIONS.

NOTE:
AG DRAINS BEHIND RETAINING WALLS TO DISCHARGE INTO PROPERTY DRAINAGE CONNECTIONS



SLEEPER RETAINING WALL TYPICAL DETAIL
NTS

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

Scale H 1:250, V 1:25, A1
Horizontal 0 2.5 5 7.5 10 12.5
Vertical 0 0.25 0.5 0.75 1.0 1.25
DATUM GDA2020

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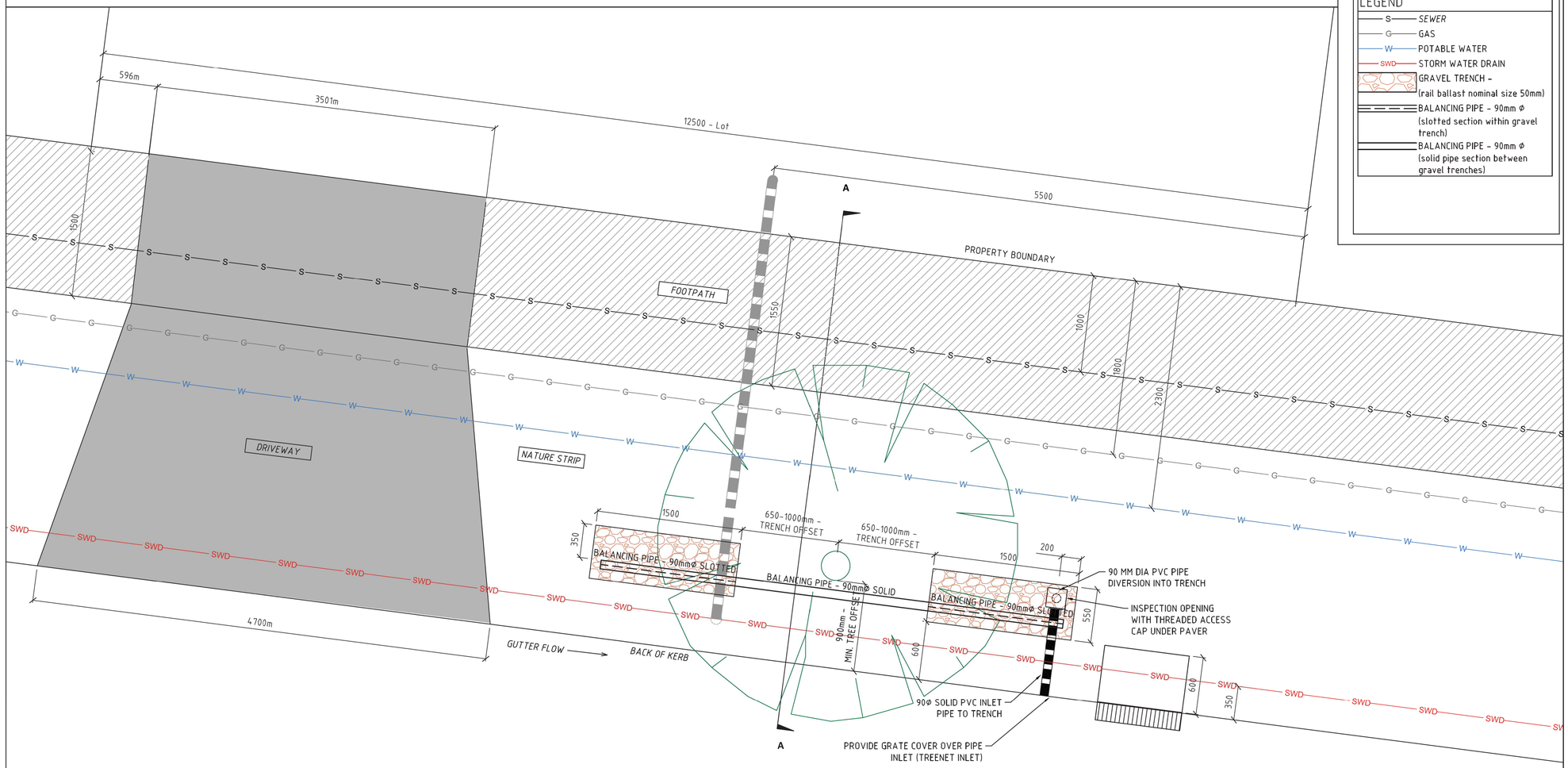
Designed: R. WEINBER
Checked: D. CAMERON
Authorised: M. TOOMER-SMITH
Date: 17/01/22

REDSTONE ESTATE
STAGE 9A
RETAINING WALL DETAILS

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R14** Rev **0**



LEGEND

- S — SEWER
- G — GAS
- W — POTABLE WATER
- SWD — STORM WATER DRAIN
- GRAVEL TRENCH - (rail ballast nominal size 50mm)
- BALANCING PIPE - 90mm ø (slotted section within gravel trench)
- BALANCING PIPE - 90mm ø (solid pipe section between gravel trenches)

GENERAL NOTES:

1 AT HIGHLY CONSTRAINED SITES, GRAVEL TRENCHES CAN BE MODIFIED IN THE FOLLOWING WAYS:
- REDUCED OFFSET OF 0.75 M FROM TREE CENTRELINE
- DIMENSION 1.0 M LONG × 0.6 M WIDE × 0.75 M DEEP

REV	DESCRIPTION	APP'D	DATE
F	UPDATED DESIGN - REISSUE	L.S	29.04.20
D	REVISED DESIGN - REISSUE	JMcL	01.03.19
C	REVISED DESIGN - REISSUE	JMcL	31.10.18
B	REVISED DESIGN	JMcL	09.10.18
A	PRELIMINARY ISSUE	HV	27.09.18

CITY OF MELTON

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ABN 76 151 119 792
Lvl 1, 105-115 Dover Street
Cremorne Vic 3121
T 61 3 9421 2532
www.alluvium.com.au

DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
H. VIRAHSAWMY	K. STANHOPE	J. MCLEAN		P118105

MELTON CITY COUNCIL
PASSIVE STREET TREE IRRIGATION
GRAVEL TRENCH (KERB INLET DIVERSION)
PLAN

REVISION:	SHEET No.:	ORIGINAL SIZE: A1	SCALE: 1:20 (A1) or 1:40 (A3)
F	4	DATUM: m AHD (MGA z55)	0 0.4 0.8 1.2m (0.2)

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

1:500,A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

dlcs ASINZS ISO 9001 certified ASINZS 14001 certified ASINZS ISO 14001 certified

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Designed	Checked
R. WEINBER	D CAMERON
Authorised	Date
M. TOOMER-SMITH	20/12/21

REDSTONE ESTATE
STAGE 9A
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 1
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R15** Rev **0**

NOTES:

TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL AS SHOWN TO PREVENT FINE MIGRATION INTO THE TRENCH

PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER CLASS

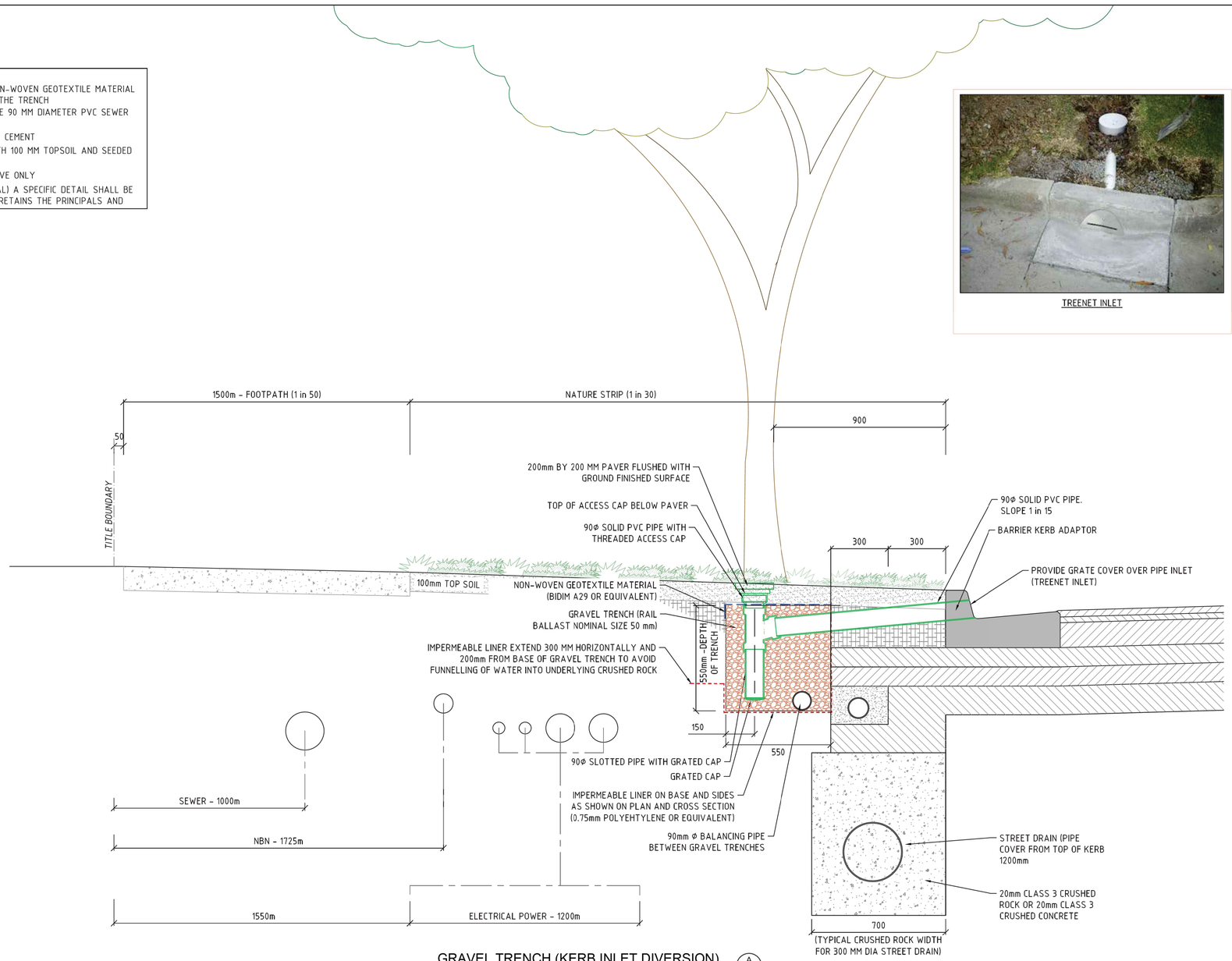
ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT

ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED AS SPECIFIED

SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY

WHERE THE VERGE IS LESS THAN 4.2m (TYPICAL) A SPECIFIC DETAIL SHALL BE SHOWN ON THE ENGINEERING DRAWINGS THAT RETAINS THE PRINCIPALS AND

TREENET INLET



GRAVEL TRENCH (KERB INLET DIVERSION) A/3

1:10 (A1)

REV	DESCRIPTION	APP'D	DATE
F	UPDATED DESIGN	L.S	29.04.20
D	REVISED DESIGN - REISSUE	JMcL	30.11.18
C	REVISED DESIGN - REISSUE	JMcL	31.10.18
B	REVISED DESIGN	JMcL	09.10.18
A	PRELIMINARY ISSUE	HV	27.09.18

CITY OF MELTON

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DESIGNED:	DRAWN:	CHECKED:	APPROVED:	PROJECT No:
H. VIRAHSAWMY	K. STANHOPE	J. MCLEAN		P118105

MELTON CITY COUNCIL
PASSIVE STREET TREE IRRIGATION
GRAVEL TRENCH (KERB INLET DIVERSION)
CROSS SECTION

REVISION:	SHEET No.:	ORIGINAL SIZE: A1	SCALE: 1:10 (A1) or 1:20 (A3)
F	5	DATUM: m AHD (MGA z55)	0 0.2 0.4 0.6m / 0.1

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	27/05/22

1:500 A1
Horizontal 0 5 10 15 20 25
Vertical 0 5 10 15 20 25
DATUM GDA2020

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Designed: R. WEINBER
Checked: D CAMERON
Authorised: M. TOOMER-SMITH
Date: 20/12/21

REDSTONE ESTATE
STAGE 9A
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No **305920R16** Rev **0**