REDSTONE ESTATE STAGE 4 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
- 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.
- 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.
- 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. 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

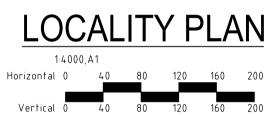
- MAINTENANCE PERIOD OF THE WORKS. 6. THE DISPOSAL SITE FOR SPOIL REMOVAL FROM SITE AND TRUCK ROUTE IS TO BE SUBMITTED TO AND APPROVED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE IN WRITING PRIOR TO THE COMMENCEMENT OF ANY
- 7. WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THESE 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 COORDINATES ARE TO MAP GRID OF AUSTRALIA 2020 (GDA 2020).
- 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
- 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
- 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
- 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
- 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
- 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 (RUSHED 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 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 CORNER OF THE LOT 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.

ADDITIONAL GENERAL NOTES

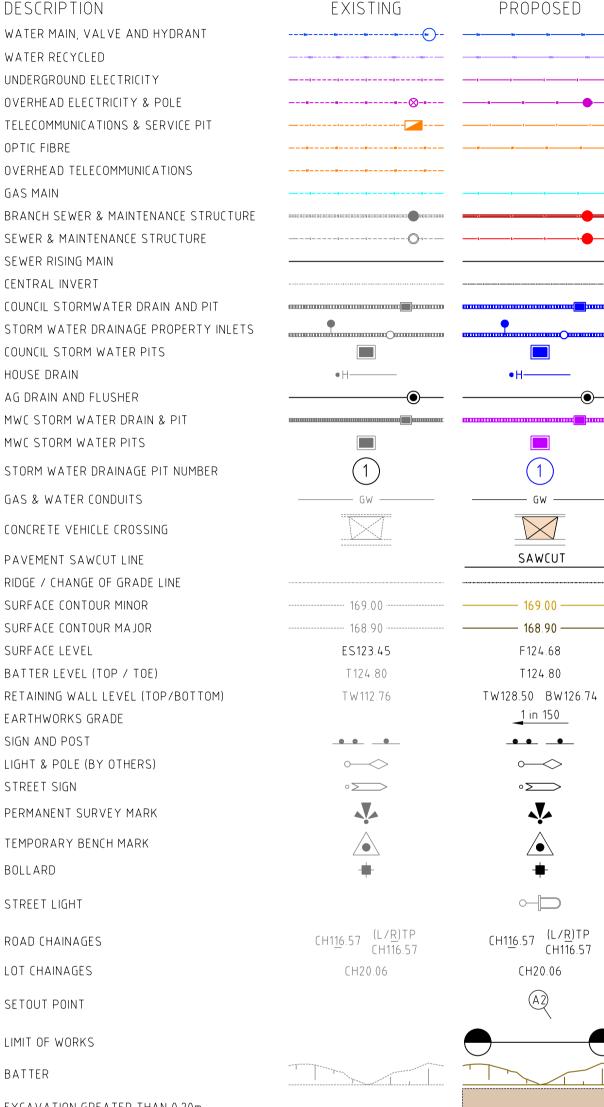
- 42. ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- 43. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT
- 44. 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
- 45. 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.
- 46. ALL BATTERS SHALL BE 1 IN 5, UNLESS OTHERWISE SHOWN.
- 47. 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. 48. 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. 49. 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.
- 50. 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
- 51. 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.
- 52. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT.
- 53. 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
- 54. 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.
- 55. ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH A.S.1742-3.
- 56. CONTRACTOR TO ENSURE SEWER MANHOLE COVERS ARE WHOLLY LOCATED IN PROPOSED FOOTPATHS.
- 57. 100mm HOUSE DRAIN CONNECTIONS TO BE LAID AT AN OFFSET OF 5.5m FROM THE LOW SIDE TITLE UNLESS DIMENSIONED OTHERWISE





DRAWING SCHEDULE										
DRAWING	DESCRIPTION	SHEET No.	REVISION							
305915R01	FACE SHEET	1	А							
305915R02	ROAD & DRAINAGE FACE PLAN	2	А							
305915R03	LONGITUDINAL SECTION - SACRED ROAD & EAGLEHAWK STREET	3	А							
305915R04	LONGITUDINAL SECTION - RINDLE DRIVE	<i>L</i> ₊	А							
305915R05	CROSS SECTIONS - EAGLEHAWK STREET	5	А							
305915R06	CROSS SECTIONS - RINDLE DRIVE	6	А							
305915R07	CROSS SECTIONS - ORIGIN DRIVE	7	А							
305915R08	INTERSECTION DETAIL AND PIT SCHEDULE	8	А							
305915R09	DRAINAGE LONGSECTIONS - SHEET 1 OF 4	9	А							
305915R10	DRAINAGE LONGSECTIONS - SHEET 2 OF 4	10	А							
305915R11	DRAINAGE LONGSECTIONS - SHEET 3 OF 4	11	А							
305915R12	DRAINAGE LONGSECTIONS - SHEET 4 OF 4	12	А							
305915R13	TYPICAL CROSS SECTIONS AND TYPICAL DETAILS	13	А							
305915R14	PAVEMENT DETAILS	14	А							
305915R15	SIGNAGE, LINEMARKING & CARPARKING PLAN	15	А							

LEGEND DESCRIPTION WATER MAIN, VALVE AND HYDRANT WATER RECYCLED UNDERGROUND ELECTRICITY OVERHEAD ELECTRICITY & POLE TELECOMMUNICATIONS & SERVICE PIT OPTIC FIBRE OVERHEAD TELECOMMUNICATIONS BRANCH SEWER & MAINTENANCE STRUCTUF SEWER & MAINTENANCE STRUCTURE SEWER RISING MAIN CENTRAL INVERT COUNCIL STORMWATER DRAIN AND PIT STORM WATER DRAINAGE PROPERTY INLETS COUNCIL STORM WATER PITS HOUSE DRAIN AG DRAIN AND FLUSHER MWC STORM WATER DRAIN & PIT MWC STORM WATER PITS STORM WATER DRAINAGE PIT NUMBER GAS & WATER CONDUITS CONCRETE VEHICLE CROSSING PAVEMENT SAWCUT LINE RIDGE / CHANGE OF GRADE LINE SURFACE CONTOUR MINOR SURFACE CONTOUR MAJOR SURFACE LEVEL BATTER LEVEL (TOP / TOE) RETAINING WALL LEVEL (TOP/BOTTOM) EARTHWORKS GRADE SIGN AND POST LIGHT & POLE (BY OTHERS) STREET SIGN PERMANENT SURVEY MARK TEMPORARY BENCH MARK BOLLARD



ROAD CHAINAGES LOT CHAINAGES

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 REMOVED

TREE TO BE PROTECTED

VEGETATION LINE

TACTILE GROUND SURFACE INDICATOR KERB TRANSITION

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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.

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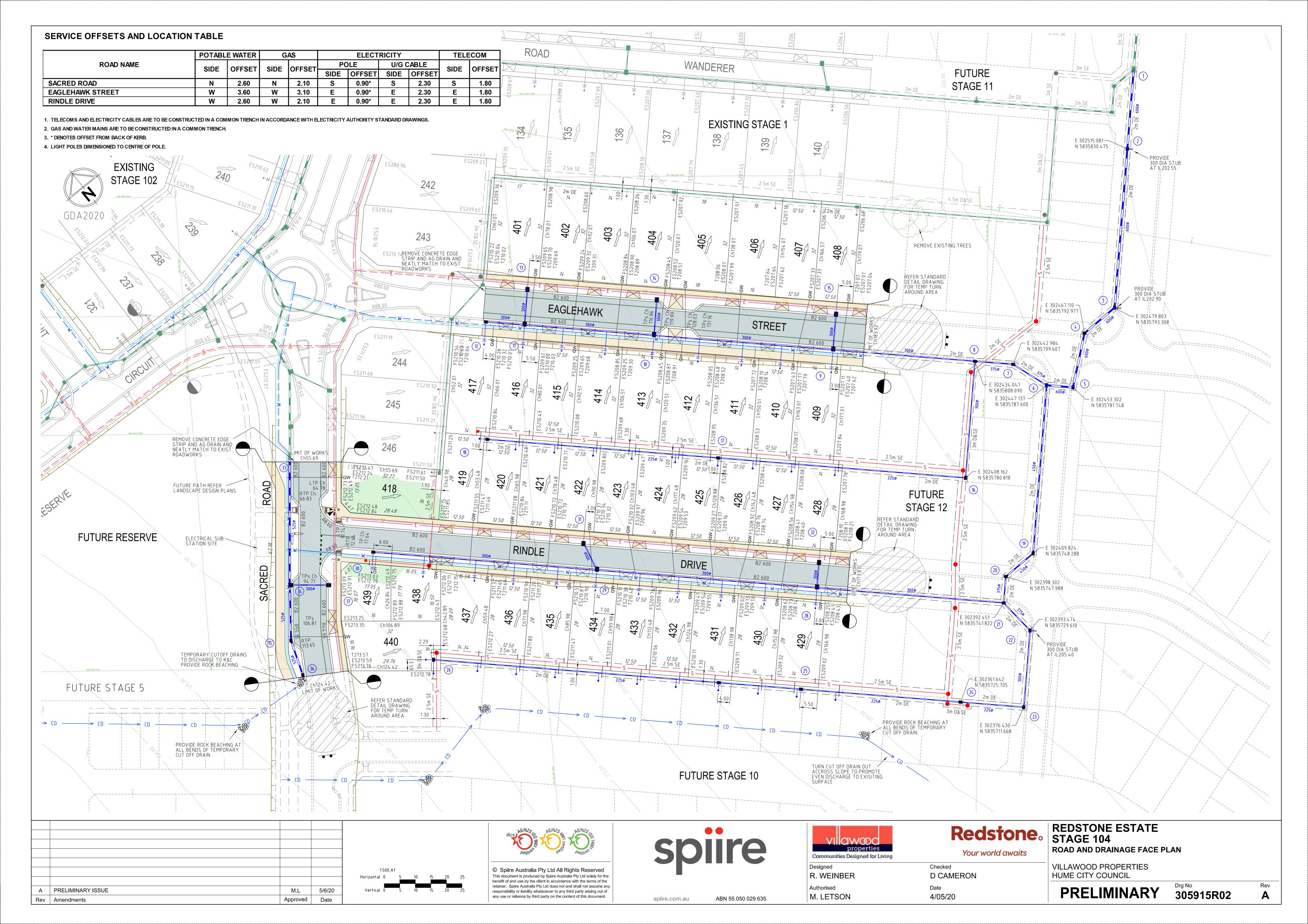
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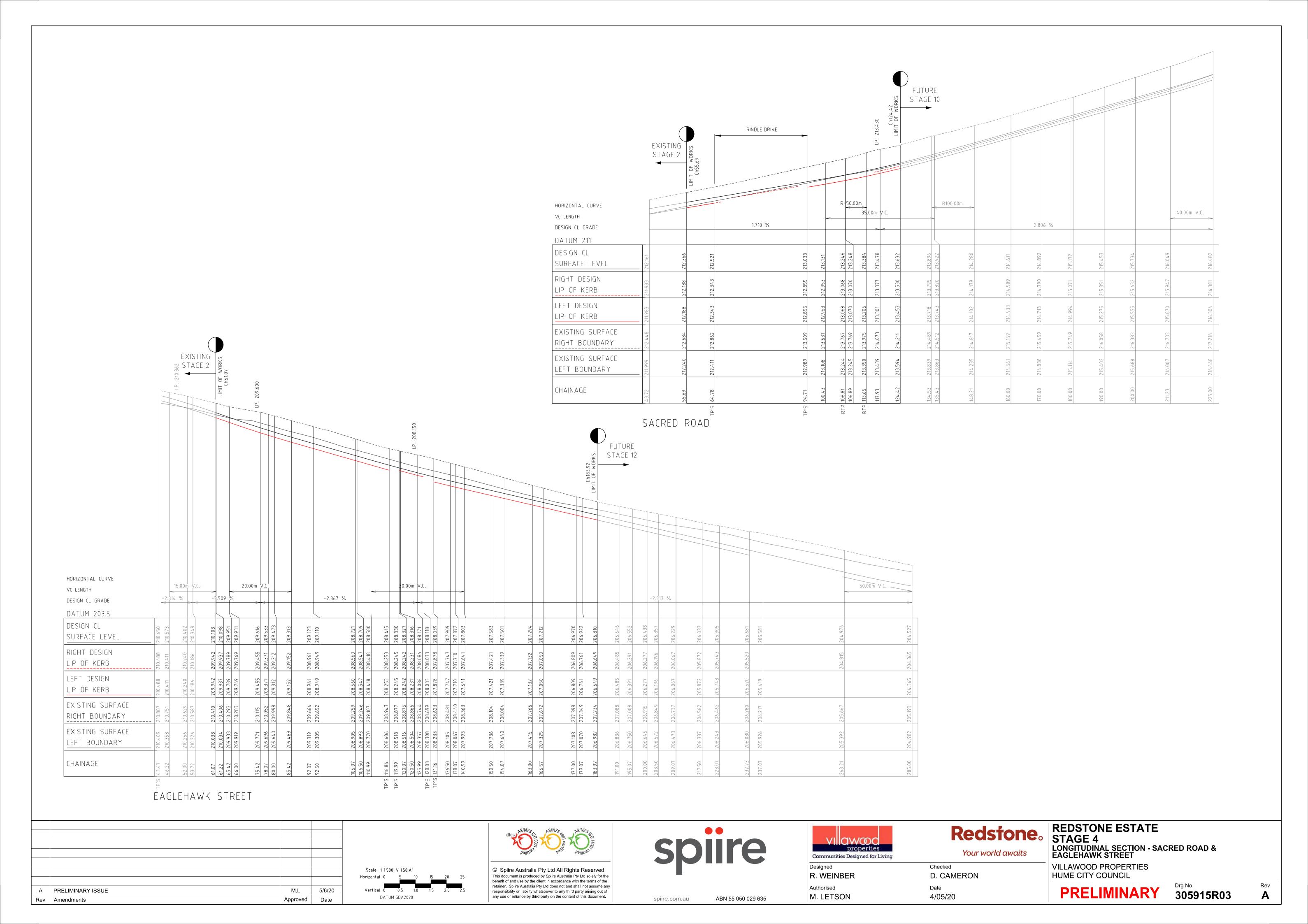
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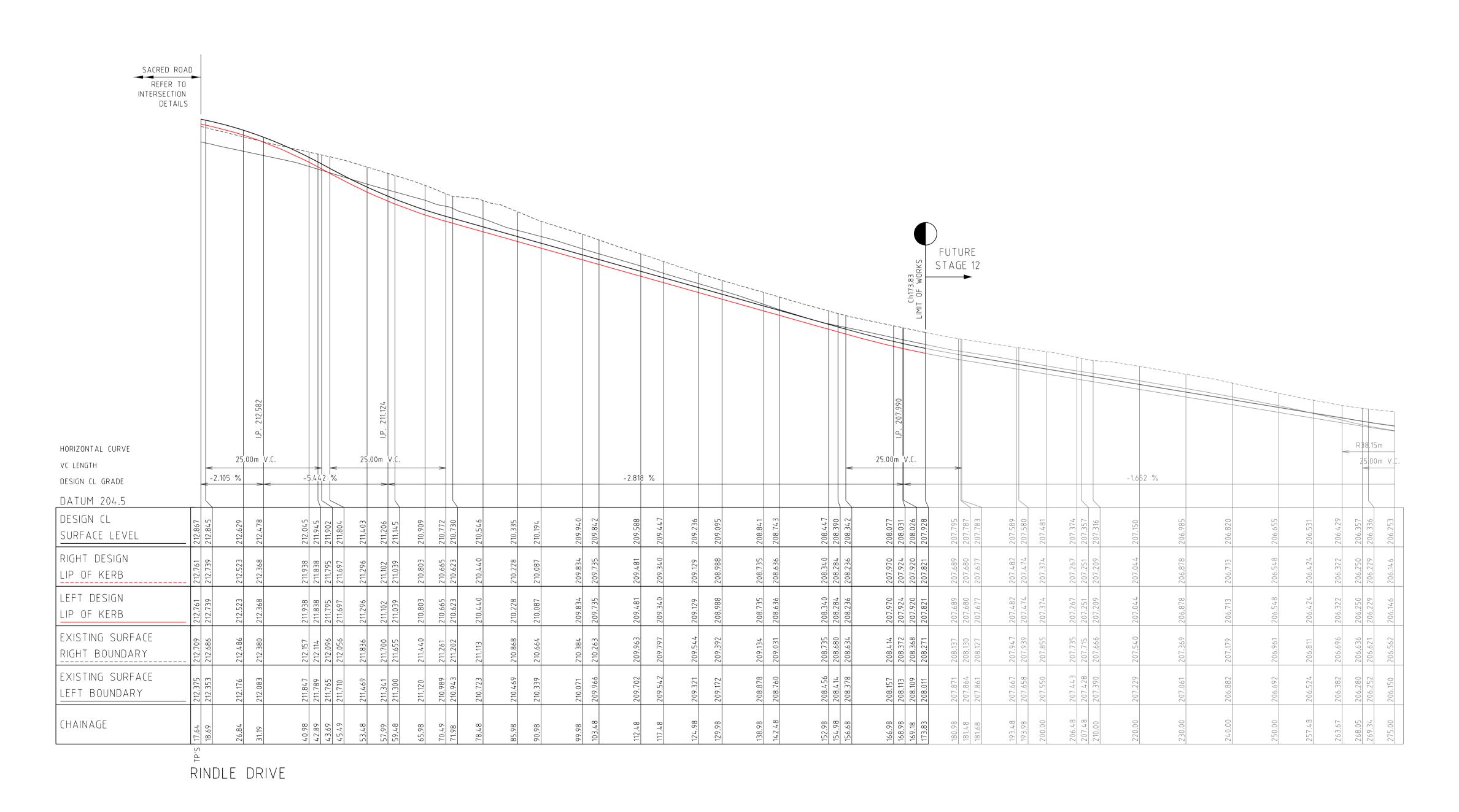
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REDSTONE ESTATE STAGE 4 **FACE SHEET** VILLAWOOD PROPERTIES **HUME CITY COUNCIL**

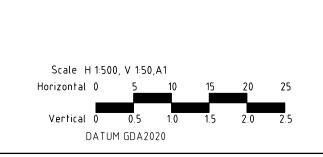
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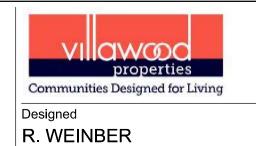
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4/05/20

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Redstone. REDSTONE ESTATE STAGE 4 LONGITUDINAL SECTION - RINDLE DRIVE

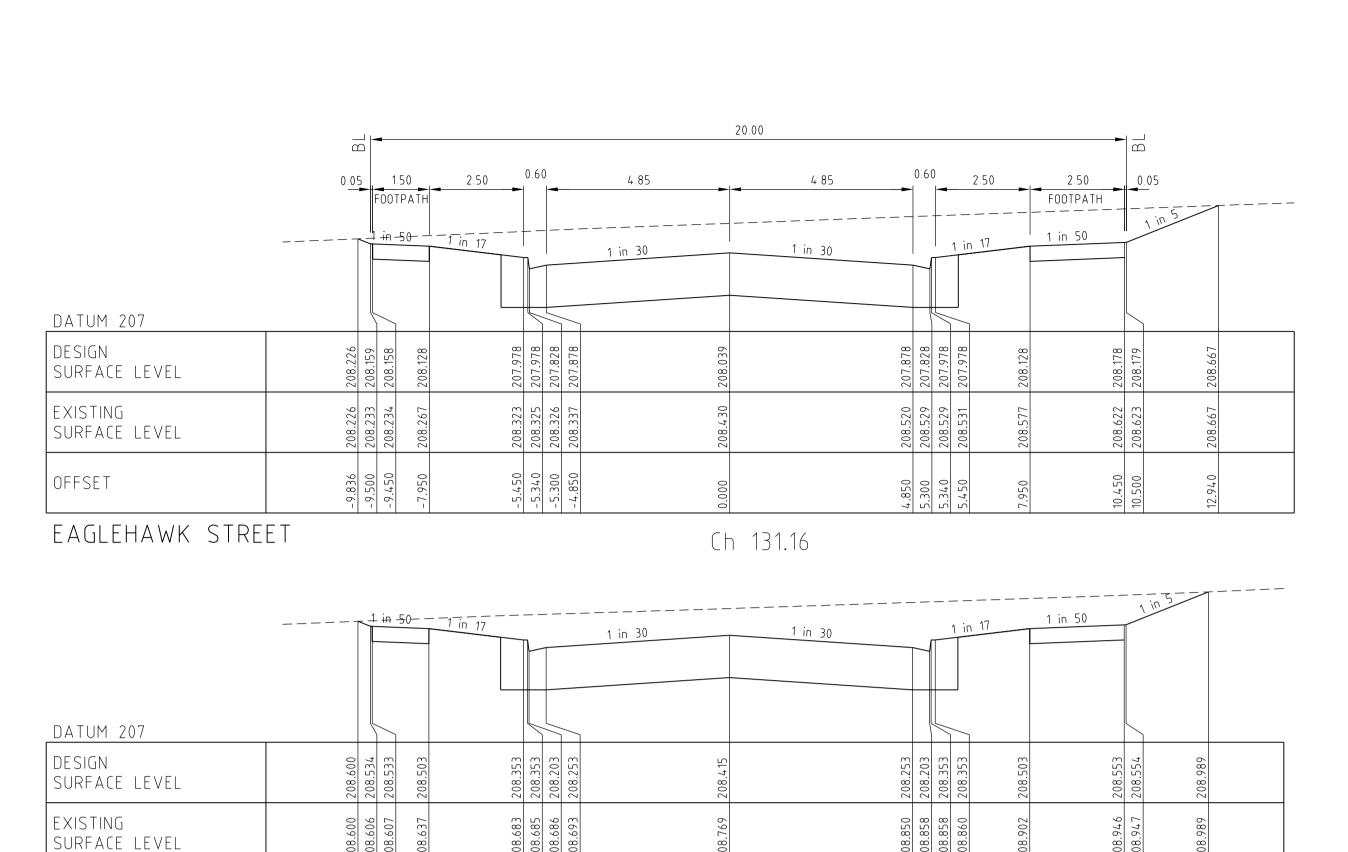
VILLAWOOD PROPERTIES HUME CITY COUNCIL

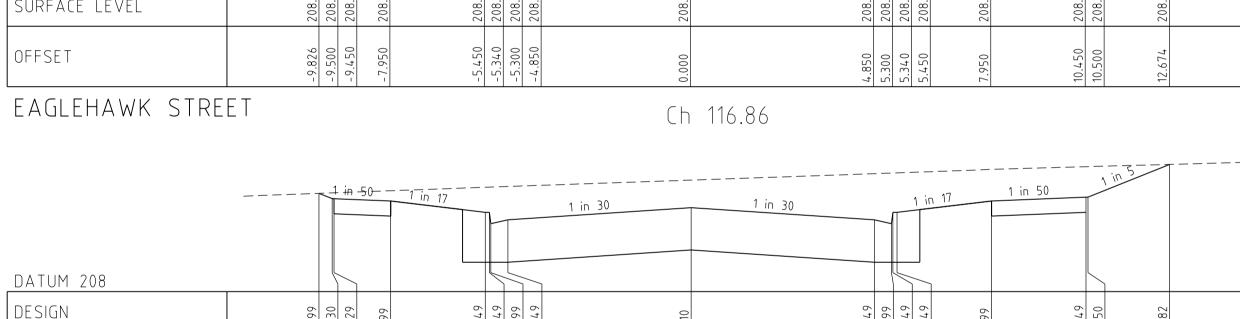
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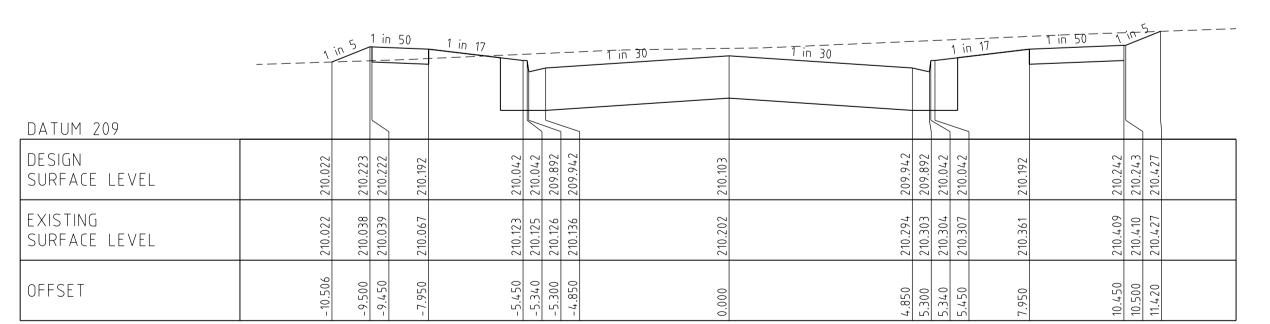
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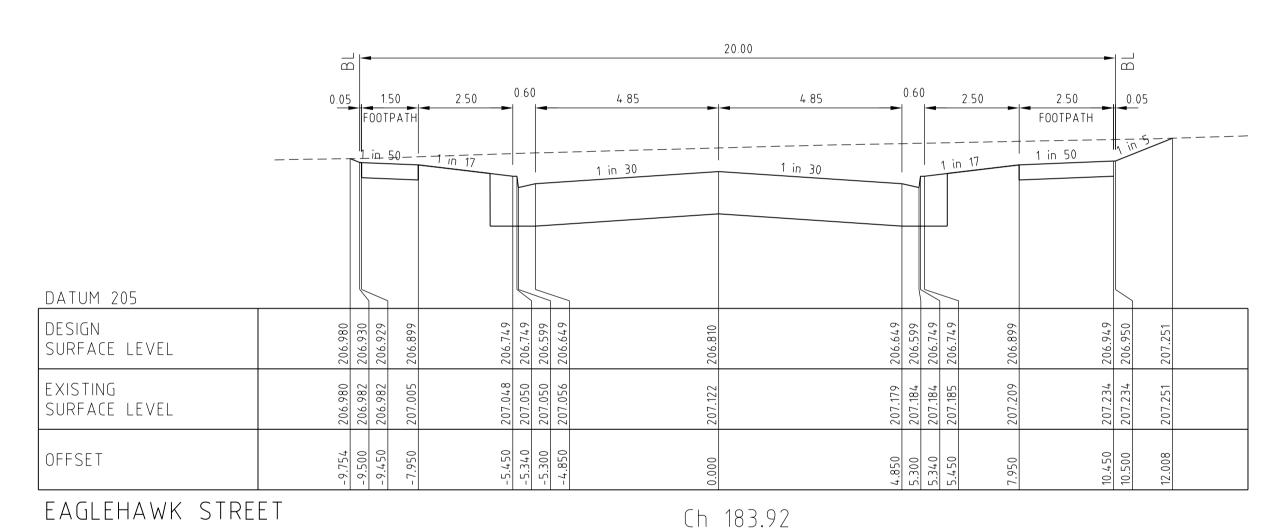




DATUM 208 209.049 209.049 208.899 208.949 DESIGN SURFACE LEVEL 209.380 209.382 209.382 209.390 EXISTING SURFACE LEVEL -9.848 -9.500 -9.450 -5.450 -5.340 -5.300 -4.850 OFFSET EAGLEHAWK STREET Ch 92.50



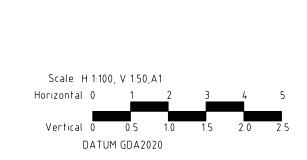
EAGLEHAWK STREET Ch 61.07



	<u>1_in_50</u> + in 17	1 in 30	1 in 30 1 in 17 1	in 50
DATUM 206				
DESIGN SURFACE LEVEL	207.638 207.620 207.619 207.589	207.439 207.289 207.339 207.501	207.339 207.289 207.439 207.439	207.639
EXISTING SURFACE LEVEL	207.638 207.640 207.641 207.673	207.730 207.732 207.733 207.743 207.743	207.910 207.917 207.918 207.920 207.962	208.004 208.004 208.038
OFFSET	-9.590 -9.500 -9.450 -7.950	-5.450 -5.340 -5.300 -4.850	4.850 5.300 5.340 5.450	10.450

EAGLEHAWK STREET Ch 154.07

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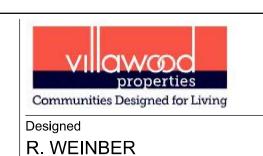
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D. CAMERON

REDSTONE ESTATE STAGE 4 CROSS SECTIONS - EAGLEHAWK STREET SHEET 1 OF 3 VILLAWOOD PROPERTIES HUME CITY COUNCIL

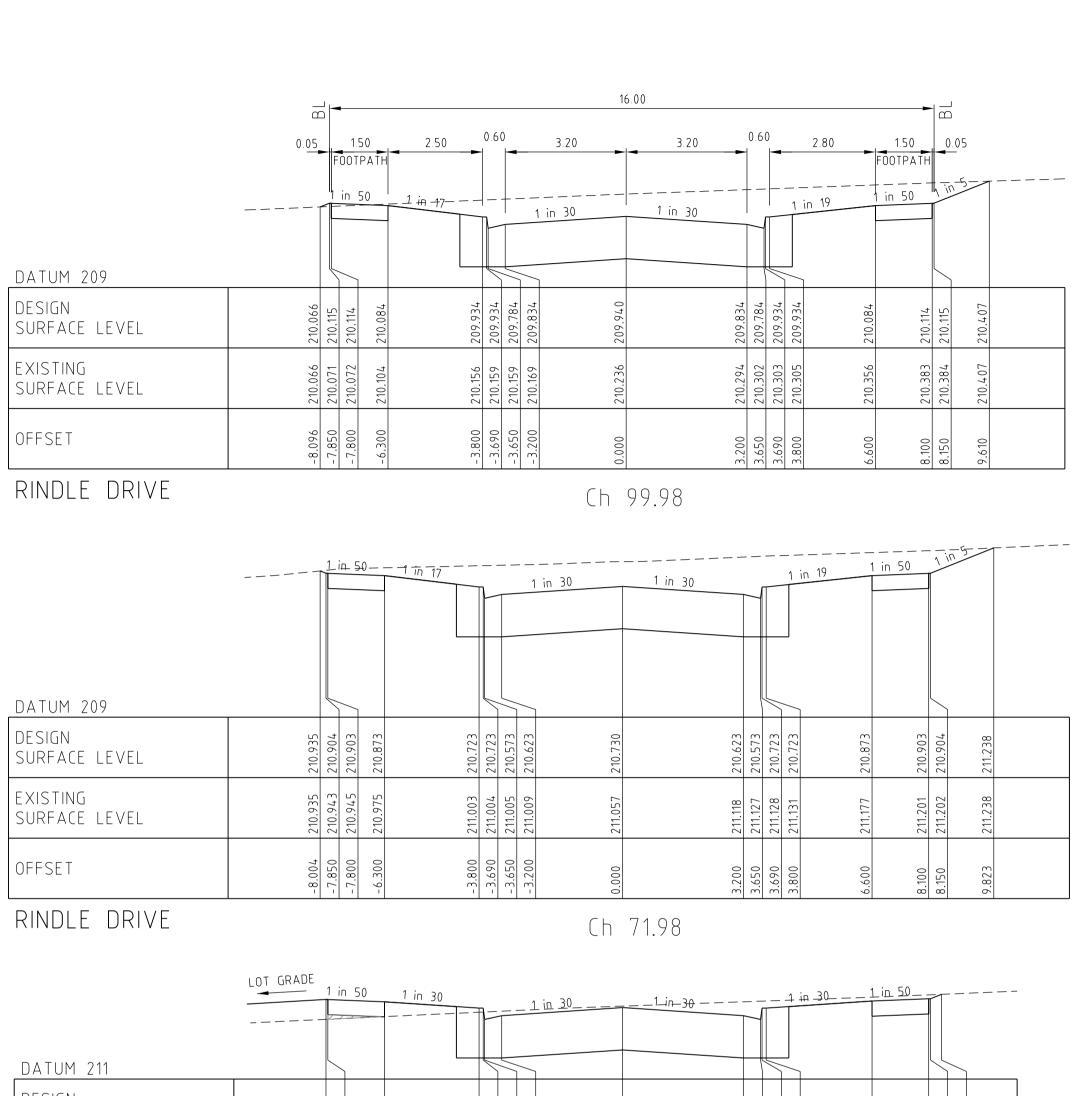
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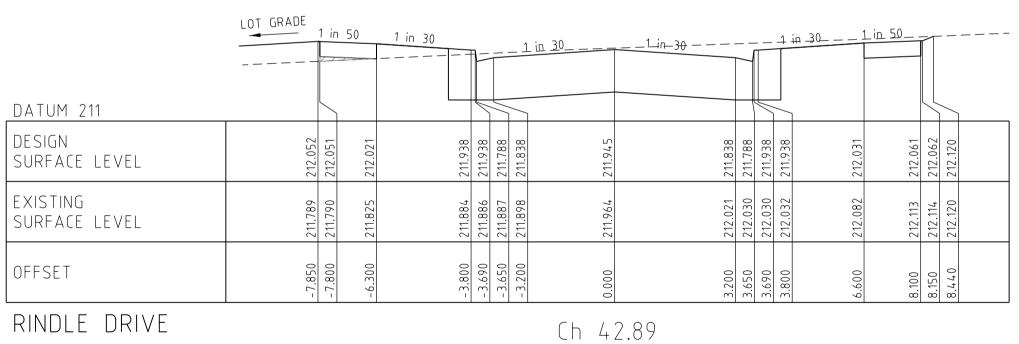
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	LOT GRADE 1 in 50 1	in 30 1 in 30 1 in 30	1 in 30 1 in 50 LOT GRADE
DATUM 211			
DESIGN SURFACE LEVEL	212.975 212.974 212.944	212.861 212.861 212.711 212.761 212.867	212.711 212.861 212.861 212.954 212.984 212.984
EXISTING SURFACE LEVEL	212.375 212.376 212.407	212.459 212.462 212.463 212.472 212.539	212.615 212.615 212.616 212.618 212.677 212.708 212.709
OFFSET	-7.850 -7.800 -6.300	-3.800 -3.690 -3.650 -3.200	3.650 3.650 3.690 3.800 6.600 8.100 8.150

RINDLE DRIVE Ch 17.64

	₽		16.00	B
	0.05 1.50 FOOTPATH	2.50 0.60 3.20	3.20	2.80 1.50 0.05 F00TPATH
		1 in 17 1 in 30		n 19 - 1 in 50 1 in 5
DATUM 207				
DESIGN SURFACE LEVEL	208.006 208.102 208.101 208.071	207.921 207.921 207.771 207.821	207.928 207.821 207.771 207.921 207.921	208.071 208.101 208.102 208.289
EXISTING SURFACE LEVEL	208.006 208.011 208.012 208.030	208.060 208.061 208.061 208.067	208.176 208.176 208.185 208.186 208.186	208.242 208.270 208.271 208.289
OFFSET	-8.331 -7.850 -7.800	-3.800 -3.690 -3.650 -3.200	0.000 3.200 3.650 3.690 3.800	6.600 8.100 8.150 9.085
RINDLE DRIVE		Ch 1	73.83	

DATUM 207	^	1 in 5 1 in	50 ———	1 in 17			1 in 30	—— T in 30				in 19	1 in 50- <u>1</u>	# C		
DESIGN SURFACE LEVEL	208.444	208.621	208.590	208.440	208.440	208.340	208.447		208.340	208.290	708.440	208.590	9	208.621	208.746	
EXISTING SURFACE LEVEL	208.444	208.456	208.476	208.521	208.523	208.533	208.594		208.643	208.651	208.652	208.706	7	208.735	208.746	
OFFSET	-8.734	-7.850	-6.300	-3.800	-3.690	-3.650	0000		3.200	3.650	3.690	009.9	8 100	8.150	8.776	

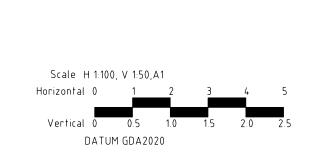
RINDLE DRIVE Ch 152.98

		1 in		1 in 17 — — —		_ 1	in 30	1 in 30				in 19 1	⊤in 50- <u>7</u>	TA	5	
DATUM 208										Ĺ	\	1				
DESIGN SURFACE LEVEL	209.313	209.409	209.379	209.229	209.079	209.129	209.236		209.129	209.079	209.229	209.379	607602	200.100	209.552	
EXISTING SURFACE LEVEL	209.313	209.322	209.347	209.387	209.389	209.396	209.445		709.484	209.489	209.490	209.525	£75 602	200.2.2	209.552	
OFFSET	-8.334	-7.800	-6.300	-3.800	-3.650	-3.200	0.00.0	(3.200	3.650	3.690	9.600	8 100	8 150	8.861	

4/05/20

RINDLE DRIVE Ch 124.98

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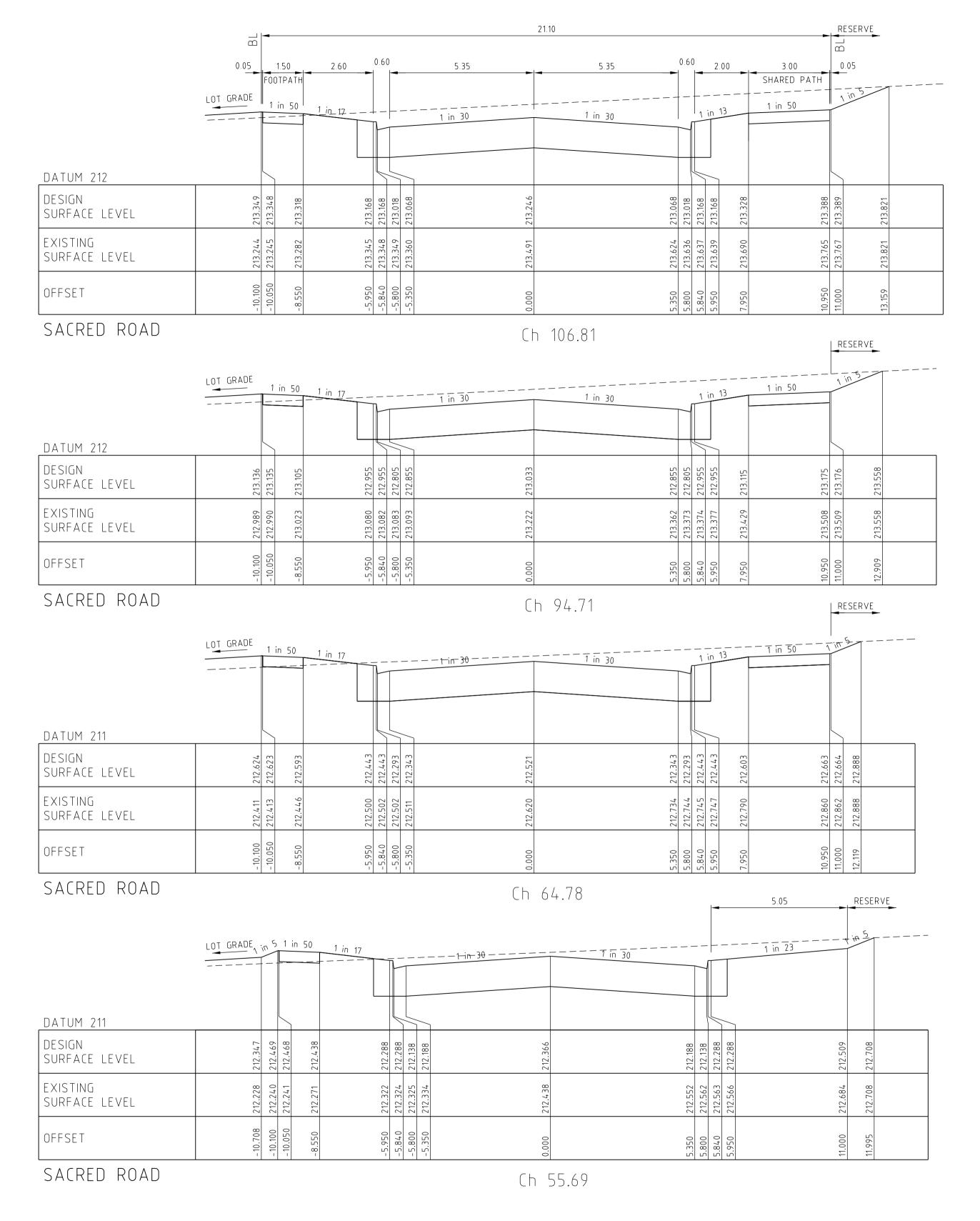
Your world awaits Checked D. CAMERON

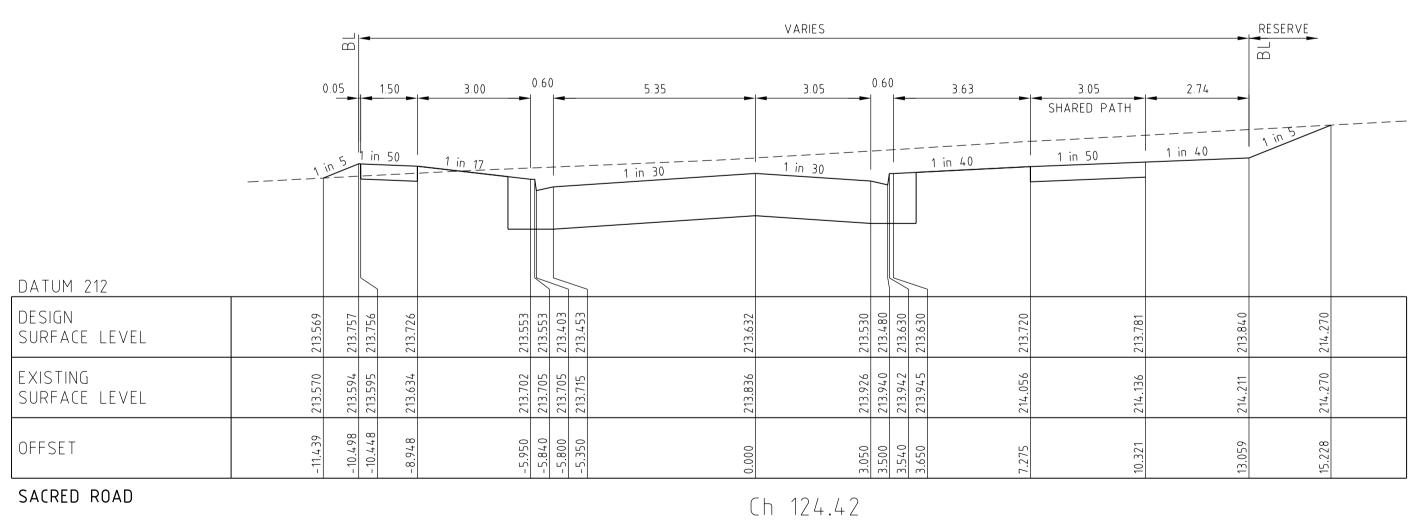
Redstone. REDSTONE ESTATE STAGE 4 CROSS SECTIONS - RINDLE DRIVE SHEET 2 OF 3 VILLAWOOD PROPERTIES HUME CITY COUNCIL

PRELIMINARY

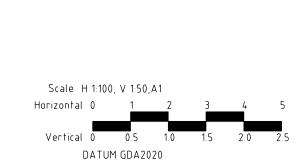
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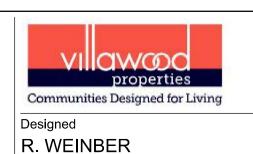
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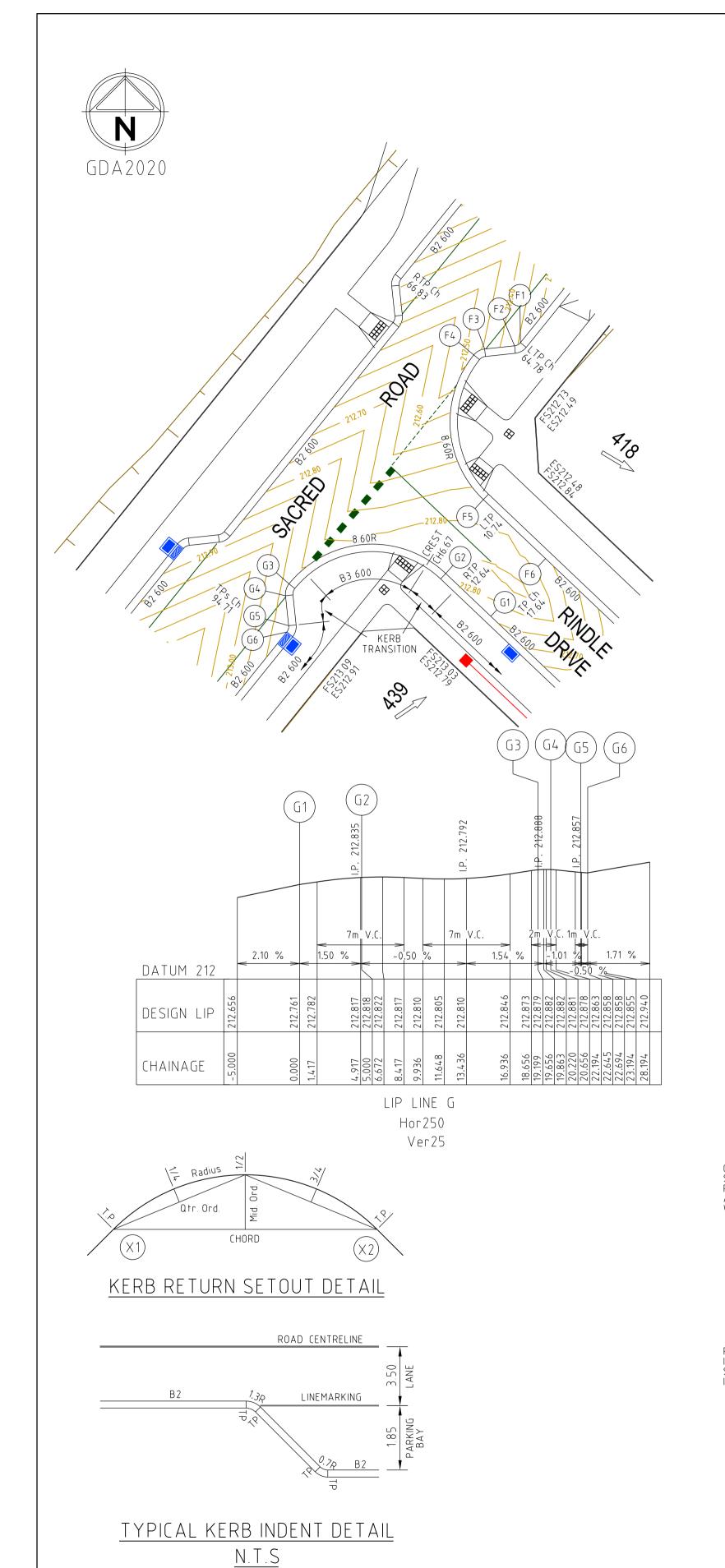
D. CAMERON

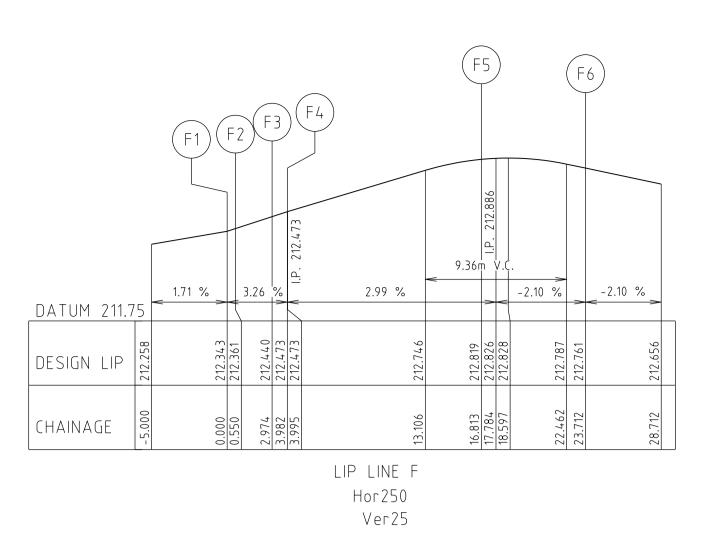
REDSTONE ESTATE STAGE 4 CROSS SECTIONS - ORIGIN DRIVE SHEET 3 OF 3 VILLAWOOD PROPERTIES HUME CITY COUNCIL

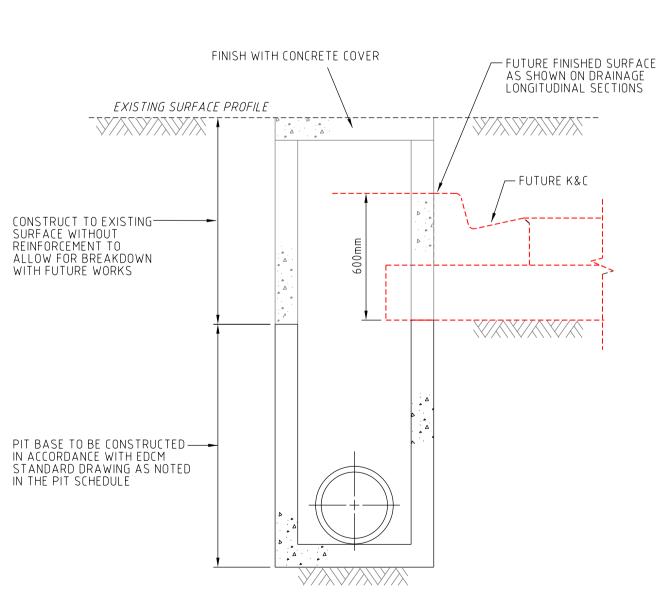
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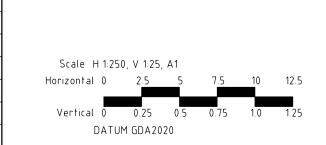
CONCRETE DETAILS TEMPORARY DRAINAGE PIT CONTRUCTION DETAIL NOT TO SCALE

DRAINAGE PIT SCHEDULE

	PIT	INTER	RNAL	ll	NLET		DUTLET	PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	KEMAKNS
	EXISTING STUB			600	202.330			204.771	2.521	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE I
# 2	JUNCTION PIT	900	900	600	202.550	600	202.500	204.945	2.445	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 3	JUNCTION PIT	900	900	600	202.900	600	202.850	205.338	2.488	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 4	JUNCTION PIT	900	900	600	203.050	600	203.000	205.631	2.631	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 5	JUNCTION PIT	900	900	600	203.250	600	203.200	205.933	2.733	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 6	JUNCTION PIT	900	900	375	203.500	600	203.330	206.102	2.772	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11 -				450	203.600			206.102	2.772	TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 7	JUNCTION PIT	900	900	375	203.780	375	203.700	206.257	2.557	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
77 '	one roll in the	700	700		207.100	' ' '	207.700	200.271		TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 8	JUNCTION PIT	900	900	300	204.100	375	204.050	206.481	2.431	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
77 0	OUNCTION TIT	700	700	300	204.200	'''	201.070	200.101	2.171	NEI EN BRANTING EDET GO / THOTTEE HAGNETING AS TEN EDET GOT/
9	SIDE ENTRY PIT GRATED	900	600	300	205.200	300	205.150	207.005	1.855	REFER DRAWING - EDCM 601
,	SIDE ENTRY IT SHATED	700	000	300	205.200	700	207.170	207.007	1.077	NEI EN BRANTING EDETI OUT
10	SIDE ENTRY PIT GRATED	900	600	300	206.650	300	206.600	208.397	1.797	REFER DRAWING - EDCM 601
10	SIDE ENTRY FIT GRATED	700	000	300	206.650	700	200.000	200.597	1,771	REFER DRAWING - EDCTI OUT
11	SIDE ENTRY PIT GRATED	900	600	300	207.900	300	207.850	209.611	1.761	REFER DRAWING - EDCM 601
	SIDE ENTRY FIT GRATED	700	000	300	207.900	700	207.650	209.011	1.701	REFER DRAWING - EDCTI OUT
13	JUNCTION PIT	900	600	100	207.900	300	208.250	210.034	1 701	REFER DRAWING - EDCM 605
12									1.784	
13	SIDE ENTRY PIT GRATED	900	600			300	208.050	209.611	1.561	REFER DRAWING - EDCM 601
14	SIDE ENTRY PIT GRATED	900	600			300	206.770	208.397	1.627	REFER DRAWING - EDCM 601
15	SIDE ENTRY PIT GRATED	900	600	225	205 050	300	205.320	207.003	1.683	REFER DRAWING - EDCM 601
16	JUNCTION PIT	900	600	225	205.950	300	205.900	206.991	1.091	REFER DRAWING - EDCM 605
17	JUNCTION PIT	900	600	225	207.930	225	207.850	208.863	1.013	REFER DRAWING - EDCM 605
18	JUNCTION PIT	900	600		201 050	225	210.000	210.876	0.876	REFER DRAWING - EDCM 605
# 19	JUNCTION PIT	900	900	450	204.850	450	204.800	206.938	2.138	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
# 20	JUNCTION PIT	900	900	375	205.100	450	205.050	207.230	2.180	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
11										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 21	JUNCTION PIT	900	900	375	205.250	375	205.200	207.396	2.196	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	205.280					TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 22	JUNCTION PIT	900	900	300	205.400	375	205.350	207.395	2.045	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
										TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 23	JUNCTION PIT	900	600	225	206.000	300	205.950	207.925	1.975	REFER DRAWING - EDCM 605
24	JUNCTION PIT	900	600	225	207.050	225	207.000	208.272	1.272	REFER DRAWING - EDCM 605
25	JUNCTION PIT	900	600	225	208.150	225	208.100	209.154	1.054	REFER DRAWING - EDCM 605
26	JUNCTION PIT	900	600	225	211.850	225	211.800	212.674	0.874	REFER DRAWING - EDCM 605
28	SIDE ENTRY PIT GRATED	900	600	300	206.400	300	206.350	208.167	1.817	REFER DRAWING - EDCM 601
				300	206.400					
29	SIDE ENTRY PIT GRATED	900	600	300	208.400	300	208.350	210.155	1.805	REFER DRAWING - EDCM 601
				300	208.400					
30	JUNCTION PIT	900	600			300	211.000	212.826	1.826	REFER DRAWING - EDCM 605
31	SIDE ENTRY PIT GRATED	900	600			300	208.500	210.299	1.799	REFER DRAWING - EDCM 601
32	SIDE ENTRY PIT GRATED	900	900			300	206.490	208.170	1.680	REFER DRAWING - EDCM 601
33	EXISTING ENDPIPE			525	210.160			212.323	2.162	CONNECT TO EXISTING END PIPE CONSTRUCTED WITH STAGE 2
34	SIDE ENTRY PIT GRATED	900	900	525	210.800	525	210.750	212.982	2.232	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				300	211.000					
35	JUNCTION PIT	900	900	525	211.200	525	211.150	213.299	2.149	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
36	JUNCTION PIT	900	900			525	211.400	213.626	2.226	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
37	SIDE ENTRY PIT GRATED	900	600			300	211.200	212.991	1.791	REFER DRAWING - EDCM 601

NOTE: ALL PITS DE NOTED THUS "#" TO BE CONSTRUCTED AS PER TEMPORARY DRAINAGE PIT CONTRUCTION DETAIL BELOW

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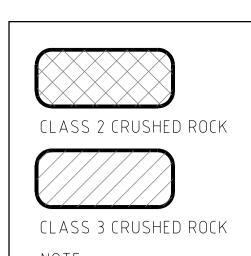
4/05/20

Redstone. REDSTON STAGE 4 INTERSECTION DETAIL AND PIT SCHEDULE Your world awaits VILLAWOOD PROPERTIES HUME CITY COUNCIL D. CAMERON



REDSTONE ESTATE

305915R08

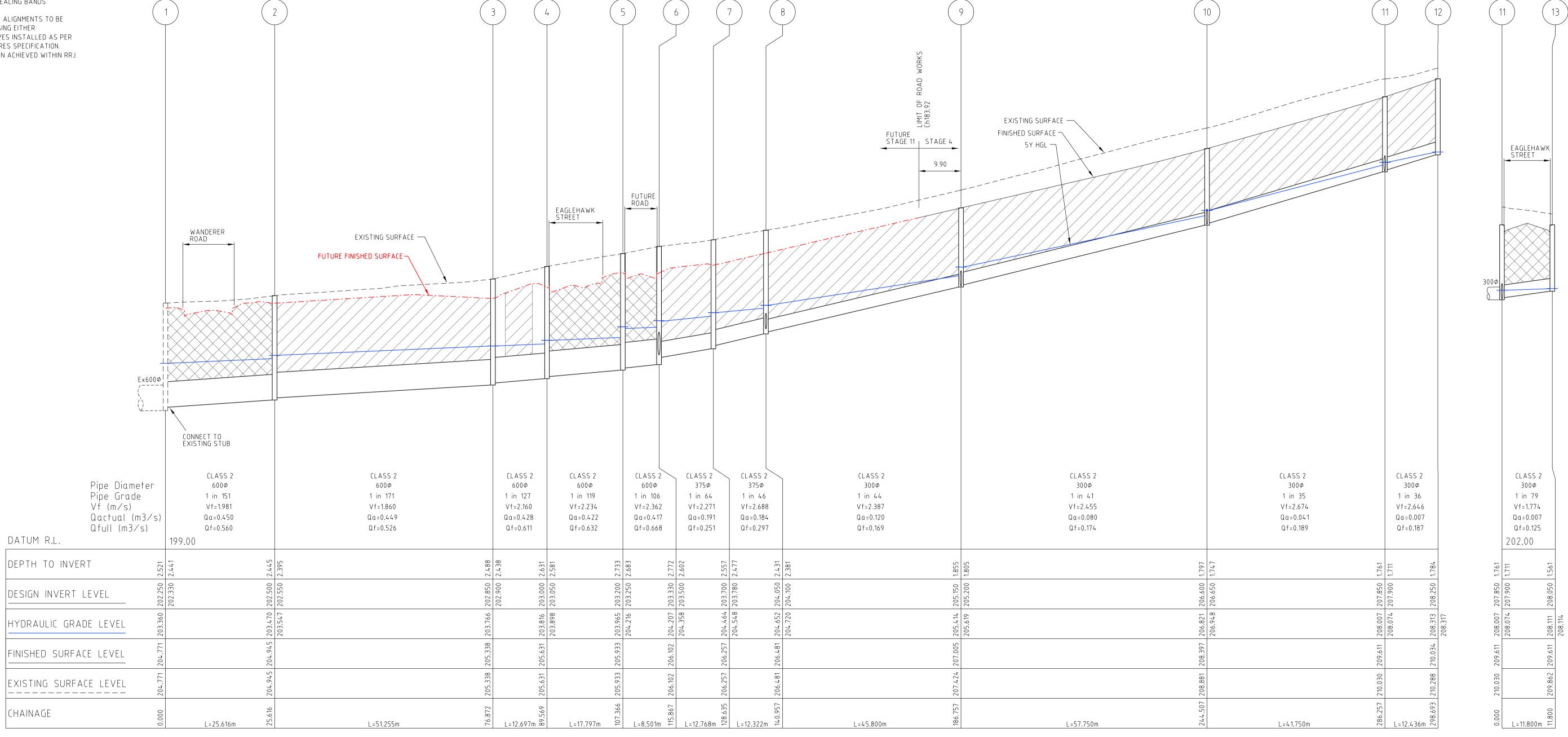


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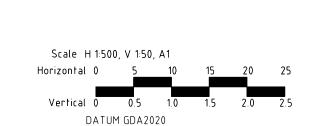
1. ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.

2. DRAINAGE PIPES GREATER THAN 750¢ 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. Ы) DEFLECTION ACHIEVED WITHIN RRJ..



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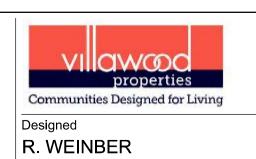
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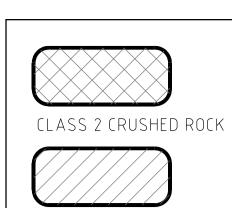
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D. CAMERON

DRAINAGE LONG SECTION SHEET 1 OF 4 VILLAWOOD PROPERTIES HUME CITY COUNCIL

PRELIMINARY

305915R09

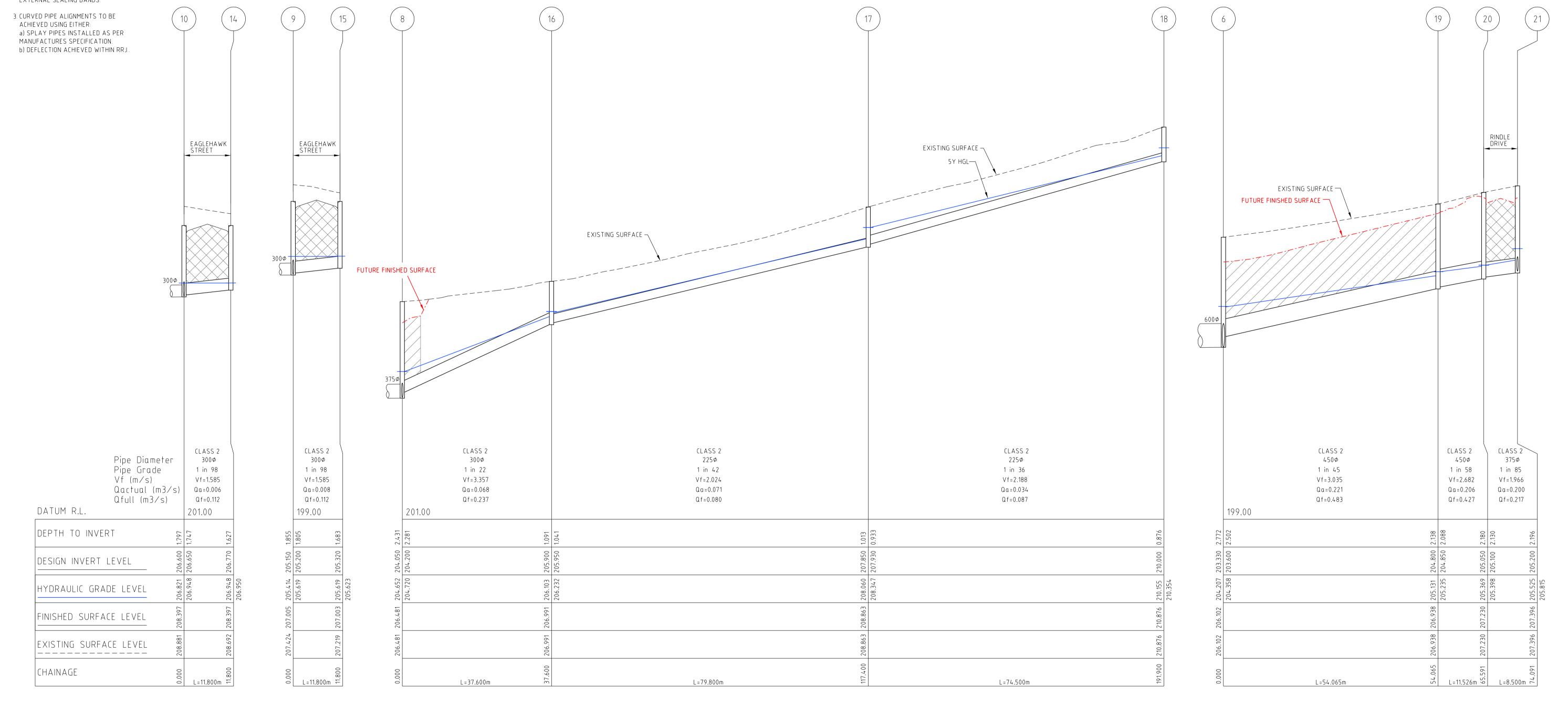


CLASS 3 CRUSHED ROCK

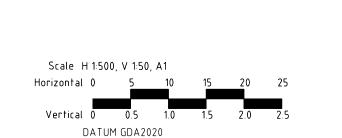
NOTE:

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2. DRAINAGE PIPES GREATER THAN 750¢ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.



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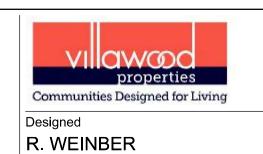
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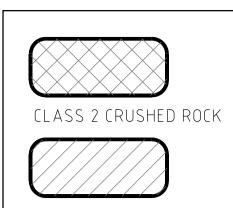
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DRAINAGE LONG SECTION SHEET 2 OF 4 VILLAWOOD PROPERTIES HUME CITY COUNCIL

305915R10

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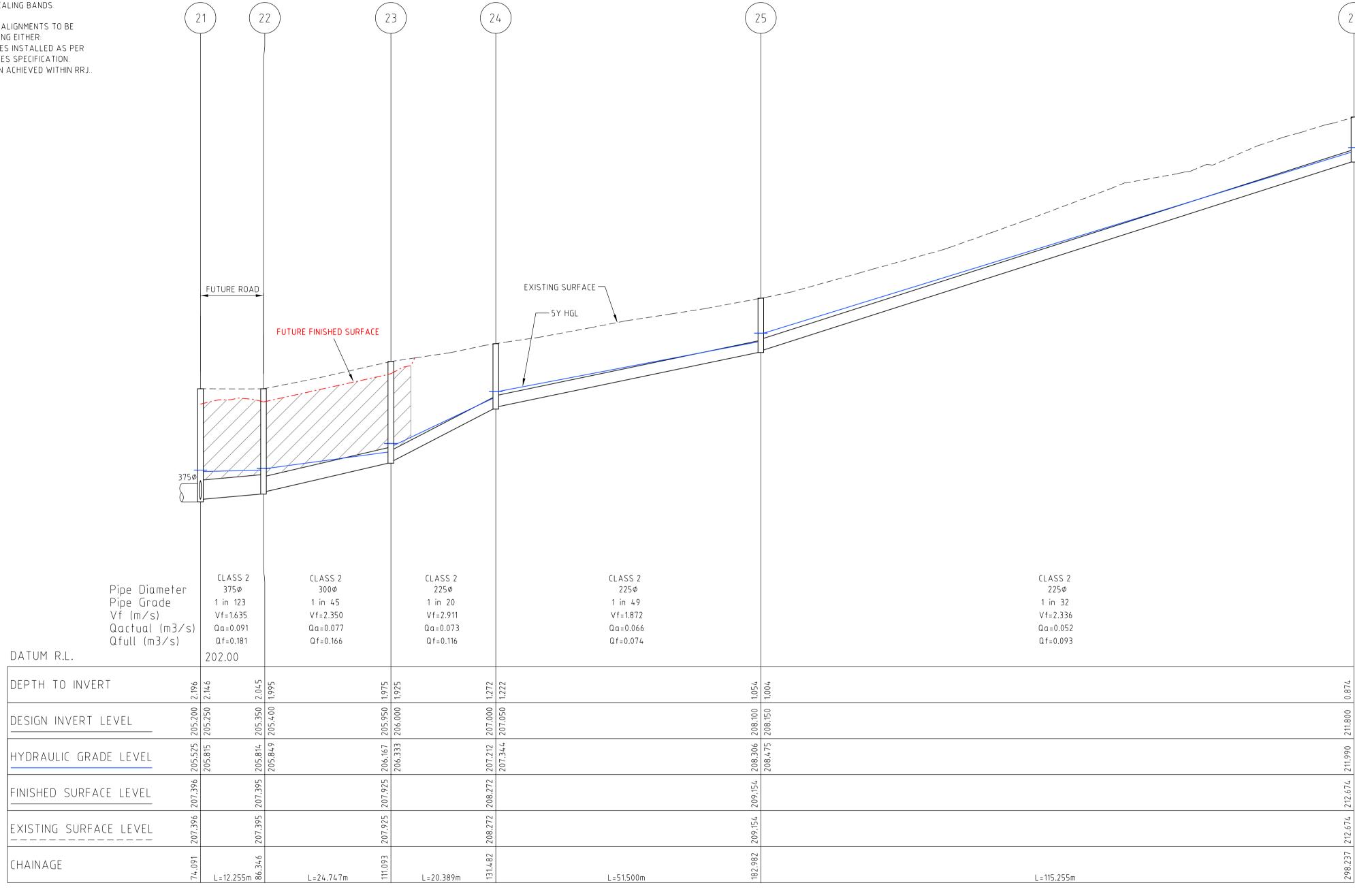
CLASS 3 CRUSHED ROCK

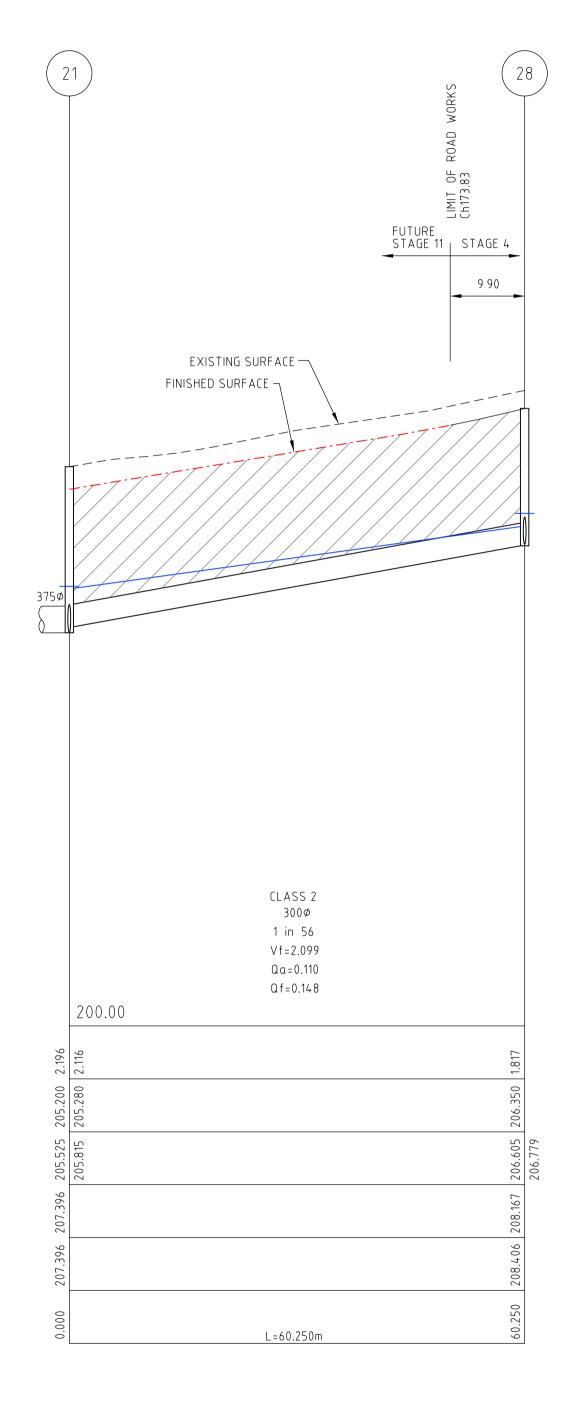
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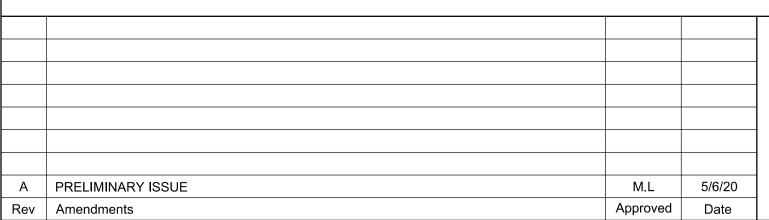
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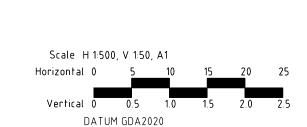
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3. CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER: a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. b) DEFLECTION ACHIEVED WITHIN RRJ...









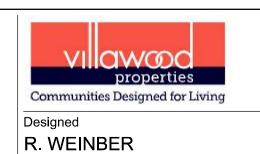






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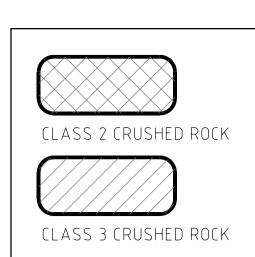
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REDSTONE ESTATE STAGE 4 DRAINAGE LONG SECTION SHEET 3 OF 4 VILLAWOOD PROPERTIES HUME CITY COUNCIL

PRELIMINARY

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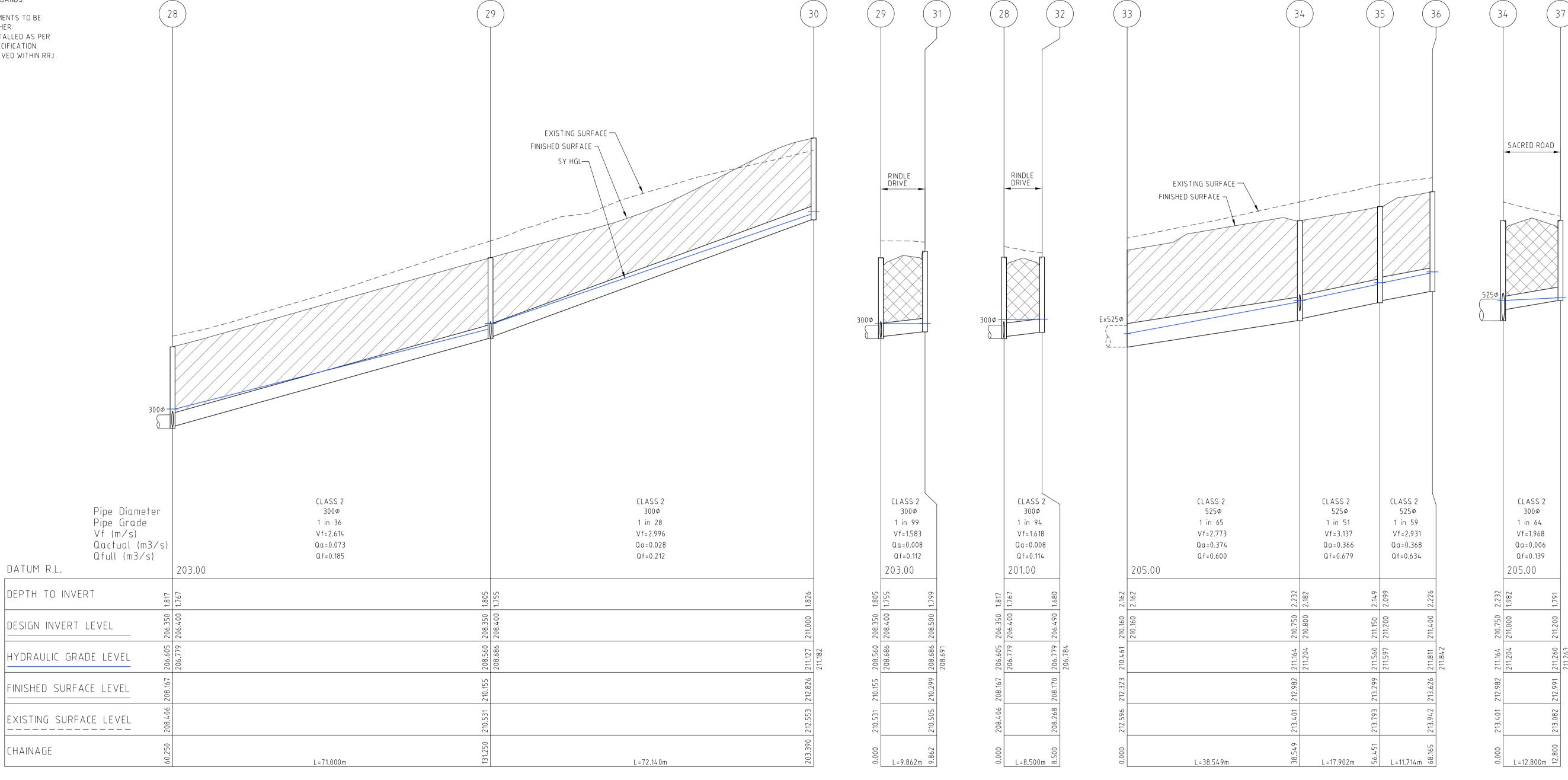


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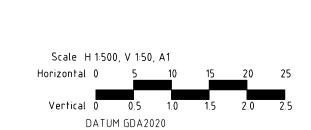
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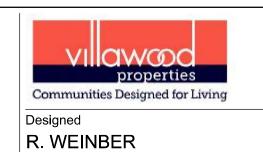
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DRAINAGE LONG SECTION SHEET 4 OF 4 VILLAWOOD PROPERTIES HUME CITY COUNCIL

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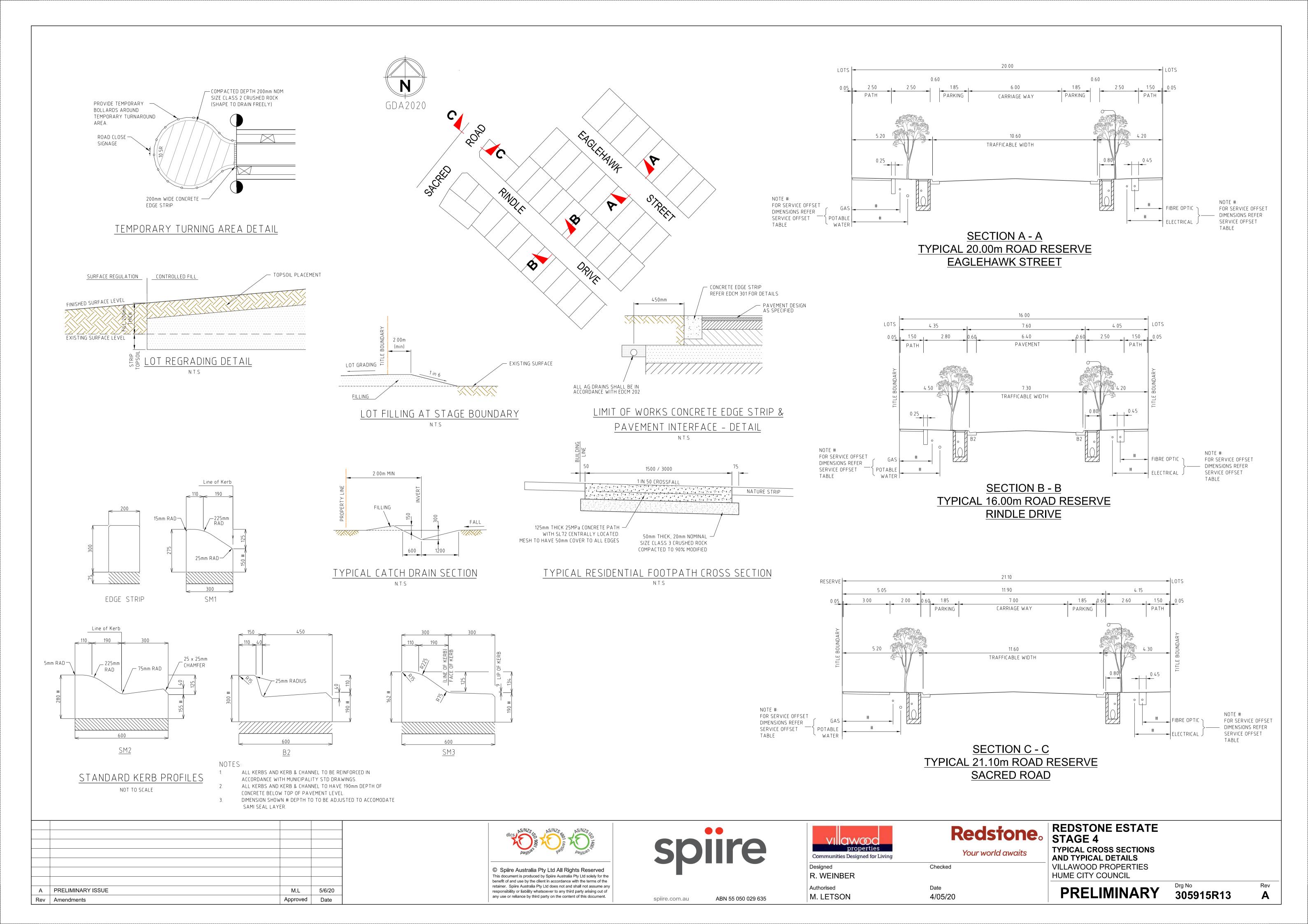
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DESIGN PAVEMENT PROFILE FOR AREA 2

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 2
WEARING COURSE	Size 10mm Type N Asphalt with a C170 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C170 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE	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	20mm nominal size Class 3 FCR, compacted to at least 90% 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
LOWER SUB-BASE COURSE	20mm nominal size Class 4 CR, 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	100
SELECT SUB-BASE COURSE	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%	190
	TOTAL PAVEMENT DEPTH	600
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 ≥ 2.0%) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 3

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 3
WEARING COURSE	Size 10mm Type N Asphalt with a C170 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C170 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	130
	UPPER PAVEMENT TOTAL	200
SUB-BASE COURSE	20mm nominal size Class 3 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	100
LOWER SUB-BASE COURSE	20mm nominal size Class 4 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	130
SELECT SUB-BASE COURSE	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
	TOTAL PAVEMENT DEPTH	630
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 ≥ 2.0%) within 2% of the Standard Optimum Moisture Content	

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 4
WEARING COURSE	Size 14mm Type N Asphalt with a C170 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	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
UPPER SUB-BASE COURSE	20mm nominal size Class 3 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	100
LOWER SUB-BASE COURSE	20mm nominal size Class 4 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	170
SELECT SUB-BASE COURSE	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%	190
	TOTAL PAVEMENT DEPTH	660
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 ≥ 2.0%) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 4

ORIGIN CIRCUIT

GDA2020

KERB TYPE AS DETAILED
ON FACE PLANS — 100mm TOPSOIL DRESSING KERB THICKNESS TO BE
ADJUSTED TO ACCOMMODATE THE SAMI SEAL LAYER. *(*/, */*/, */*/, */*//, */*// ALL AG DRAINS SHALL BE IN -ACCORDANCE WITH EDCM 202 SERVICE CONDUIT 300 150

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

> NEW CONSTRUCTION N.T.S

SPRAYED SEAL DESIGN METHOD.

PAVEMENT DETAILS

Rev Amendments

- 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.
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- PROPOSED RESIDENTIAL SUBDIVISION REDSTONE HILL SUNBURY SOUTH" V180556 REPORT 01.2. 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.
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Approved

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Communities Designed for L	iving

Authorised

M. LETSON

Your world awaits Checked D. CAMERON

4/05/20

Redstone. REDSTONE ESTATE STAGE 4 PAVEMENT DETAILS

VILLAWOOD PROPERTIES HUME CITY COUNCIL

PRELIMINARY

PAVEMENT PLAN

305915R14

ABN 55 050 029 635 spiire.com.au

