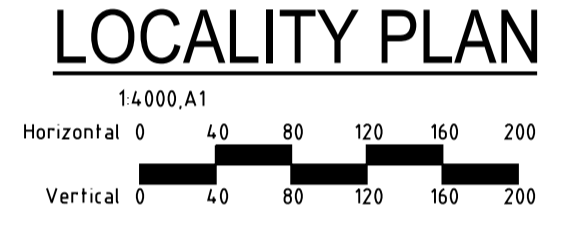
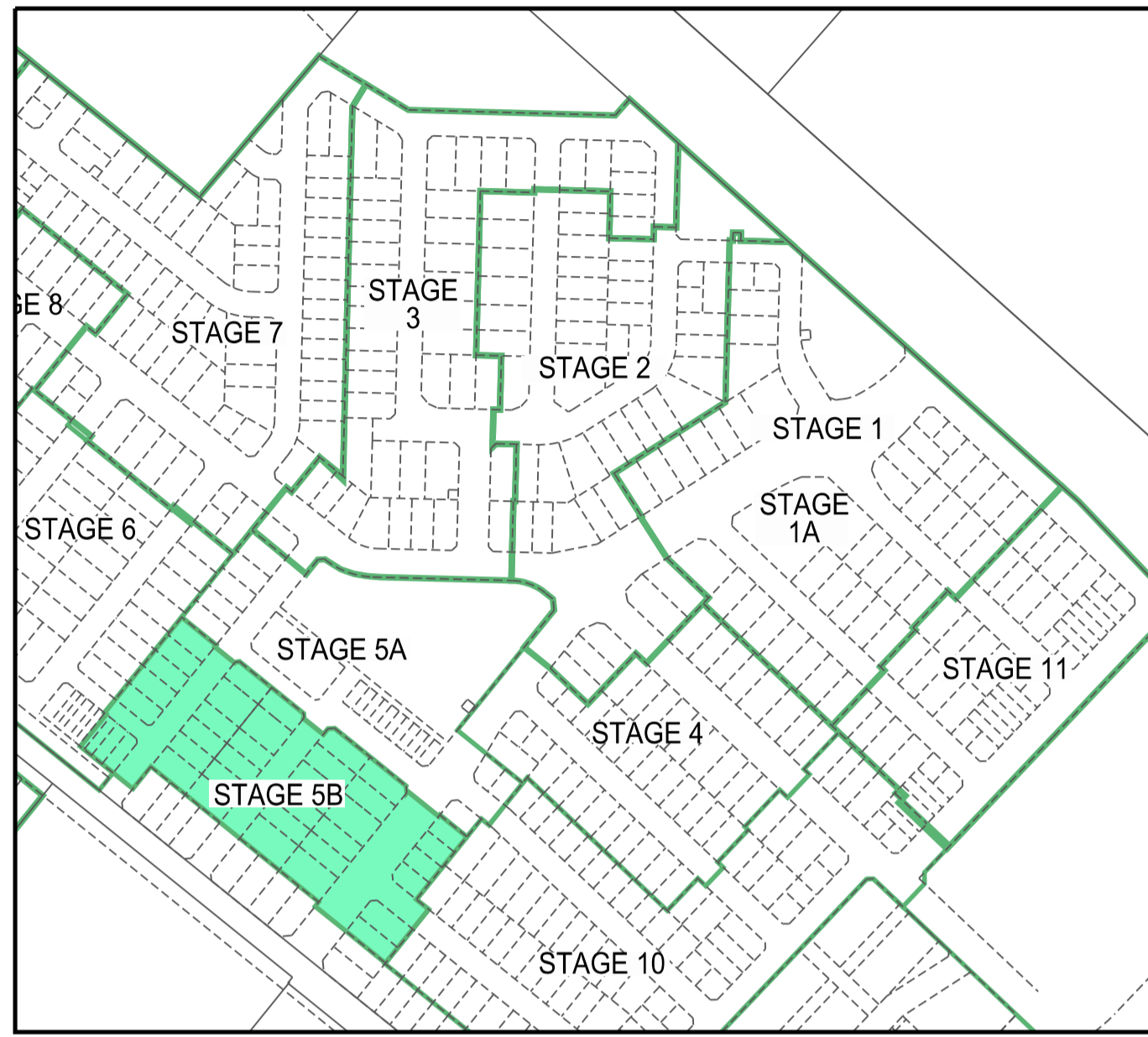


REDSTONE ESTATE STAGE 5B VILLAWOOD PROPERTIES

HUME COUNCIL STANDARD NOTES:

- 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.
- 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.
- PRIOR TO COMMENCEMENT OF THE WORKS, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING INFORMATION:
 - SOURCE OF QUARRY MATERIAL
 - N.A.T.A. APPROVED TEST RESULTS FOR THE F.C.R. THAT IS TO BE USED
 - 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 OHS 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.
- 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.
- 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.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (AHD)
- ALL CO-ORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA)
- 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
- 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. 1289.5.11-2003.
- FILLING TO COMPLY WITH A.S. 3798-2007, LEVEL 1 UNLESS SPECIFIED OTHERWISE.
- 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.
- 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.
- 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.
- BEFORE COMMENCING WORK ON TRENCHES IN EXCESS OF 15M DEEP, NOTICE OF SUCH PROPOSAL IS TO BE FORWARDED BY THE CONTRACTOR TO WORKSAFE VICTORIA.
- THE CONTRACTOR IS TO OBTAIN A BUILDING PERMIT FOR ANY STRUCTURES/FENCES AND FOR ANY RETAINING WALLS OVER 10M IN HEIGHT.
- 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.
- PRIOR TO STATEMENT OF COMPLIANCE ALL DISTURBED AREAS (INCLUDING NATURESTRIPS, BATTERS, ALLOTMENTS WITH GRADES OF 15 AND GREATER, AND RESERVES) ARE TO BE REINSTATED TO A CLEAN, TIDY CONDITION, TOP DRESSED (100mm LOAMY TOP SOIL FREE OF RUBBISH, DEBRIS, CLUMPS, SODS AND CLAY LUMPS) LIGHTLY COMPACTED AND HYDRO MULCHED. HYDROMULCH AND SEED MIX TO BE:
 - 40KG/HA KIKUYU
 - 200KG/HA TURF TYPE PERENNIAL RYE
 - 100KG/HA 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/GA, BASED ON, SITE CONDITIONS)
 GRASS IS TO BE ESTABLISHED PRIOR TO THE END OF THE MAINTENANCE PERIOD, UNLESS OTHERWISE AGREED IN WRITING.
- FOOTPATHS ARE TO BE 50mm OFFSET FROM TITLE BOUNDARIES UNLESS NOTED OTHERWISE. VEHICLE CROSSING ALIGNMENTS ARE GENERALLY TO BE PARALLEL TO THE SIDE BOUNDARY.
- ALL NEW CONCRETE WORKS SHALL BE JOINED INTO ABUTTING EXISTING CONCRETE WITH 450mm LONG Y20 DOWEL BARS @ 600 CENTRES, UNLESS OTHERWISE SPECIFIED.
- ANY EXPOSED AGGREGATE CONCRETE WORKS TO BE ACHIEVED BY SAND-BLASTING ONLY. WASHING AGGREGATE OFF WITH WATER IS NOT PERMITTED.
- 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. ALL SERVICE CONDUITS TO BE 50mm DIAMETER.
- ALL STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.C.R. 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.

- WHERE NEW ASPHALT, CONCRETE K & C. PATHS AND DRIVEWAYS MATCH INTO EXISTING, THE EXISTING SURFACE IS TO BE SAW CUT AND MATCHED NEATLY.
- ALL REDUNDANT ASSETS ARE TO BE REMOVED AND DISPOSED OFF SITE.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN OR DIRECTED BY THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 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.
- 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.
- 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. 1289.5.11-2003.
- 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.
- 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.
- AGRICULTURAL DRAINS ARE TO BE PLACED BEHIND ALL KERB AND CHANNEL, KERB ONLY AND EDGE STRIPS IN ACCORDANCE WITH EDM STANDARD DRAWING 202.
- 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.
- 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.
- ALL LINEMARKING PAINT SHALL BE LONG LIFE TYPE IN ACCORDANCE WITH SECTION 95C OF THE HUME CITY COUNCIL SPECIFICATIONS. LATERAL WORKS AND ARROWS BEING GOLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAUR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL.
- ALL SIGNS TO BE CLASS 1 HIGH INTENSITY TYPE AND TO COMPLY WITH THE REQUIREMENTS OF A.S. 1743-2001.
- 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.
- 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 10m FROM THE LOW SIDE OF TITLE BOUNDARY REAR EASEMENTS UNLESS OTHERWISE SHOWN.
- 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.
- FENCING TO BE PROVIDED ALONG LOT BOUNDARIES ABUTTING RESERVES TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.
- 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.



DRAWING	DESCRIPTION	SHEET No.	REVISION
309820R01	FACE SHEET	1	2
309820R02	DETAIL PLAN	2	1
309820R03	LONGITUDINAL SECTIONS - ORIGIN DRIVE & PEDRO ROAD CROSS SECTIONS - CRIMSON LANE	3	0
309820R04	LONGITUDINAL SECTIONS - FEATHER AVENUE & SPINEBILL STREET	4	0
309820R05	CROSS SECTIONS - ORIGIN DRIVE	5	0
309820R06	CROSS SECTIONS - FEATHER AVENUE	6	0
309820R07	CROSS SECTIONS - SPINEBILL STREET	7	0
309820R08	CROSS SECTIONS - PEDRO ROAD & PIT SCHEDULE	8	0
309820R09	INTERSECTION DETAILS	9	0
309820R10	CONCRETE JOINTING DETAILS	10	0
309820R11	DRAINAGE LONGSECTIONS - SHEET 1 OF 3	11	0
309820R12	DRAINAGE LONGSECTIONS - SHEET 2 OF 3	12	0
309820R13	DRAINAGE LONGSECTIONS - SHEET 3 OF 3	13	0
309820R14	TYPICAL CROSS SECTIONS AND TYPICAL DETAILS	14	0
309820R15	PAVEMENT DETAILS	15	1
309820R16	SIGNAGE, LINEMARKING & CARPARKING PLAN	16	0
309820R17	RETAINING WALL PLAN - SHEET 1	17	1
309820R18	RETAINING WALL PLAN - SHEET 2	18	0
309820R19	RETAINING WALL PROFILES	19	1

SERVICES OFFSETS AND LOCATION TABLE

Location	WATER		ELECTRICITY		TELECOM
	DW	NDW	CABLES	POLE	
ORIGIN DRIVE	2.75 W	2.50 E	0.90 BOK	1.80 E	
FEATHER AVENUE	2.60 W	2.50 E	0.90 BOK	1.80 E	
SPINEBILL STREET	2.75 W	2.60 E	0.90 BOK	1.80 E	
PEDRO ROAD	2.65 S	2.60 N	0.90 BOK	1.80 N	
CRIMSON LANE	1.50 N	3.20 N	0.90 BOK	2.50 N	

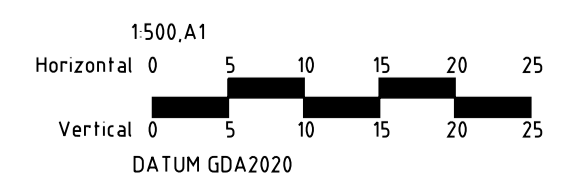
LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELECOMMUNICATIONS	OT	OT
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	S	S
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	F124.68
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		A3
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



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

Rev	Amendments	Approved	Date
2	DRAWING SCHEDULE UPDATED SHEETS R01, R02, R17 & R19	M.T.S	13/03/24
1	DRAWING SCHEDULE UPDATED SHEETS R01 & R15	M.T.S	22/08/23
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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villawood properties
Communities Designed for Living

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REDSTONE ESTATE STAGE 5B FACE SHEET
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No **309820R01** Rev **2**



SEWER BACKFILL NOTE:

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

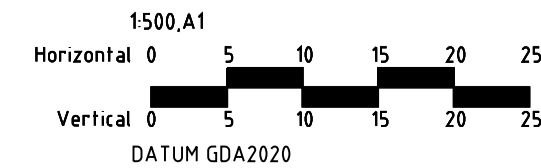
SERVICE CONDUIT NOTES:

CONDUIT PIPES SERVICING ALLOTMENTS ARE TO MEET SERVICING AUTHORITY'S REQUIREMENTS AND GENERALLY BE A MINIMUM OF 50MM.

LEVEL LEGEND

TOP215.00 TOP - TOP WALL LEVEL
 TOE215.00 TOE - TOP WALL LEVEL
 T215.00 TOP/TOE BATTER LEVEL
 FS214.49 FS - TITLE BOUNDARY/BACK PATH FINISHED LEVEL
 214.94 EXISTING SURFACE LEVEL

Rev	Amendments	Approved	Date
1	ROCK RETAINING WALL ADDED LOT 554	M.T.S	13/03/24
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



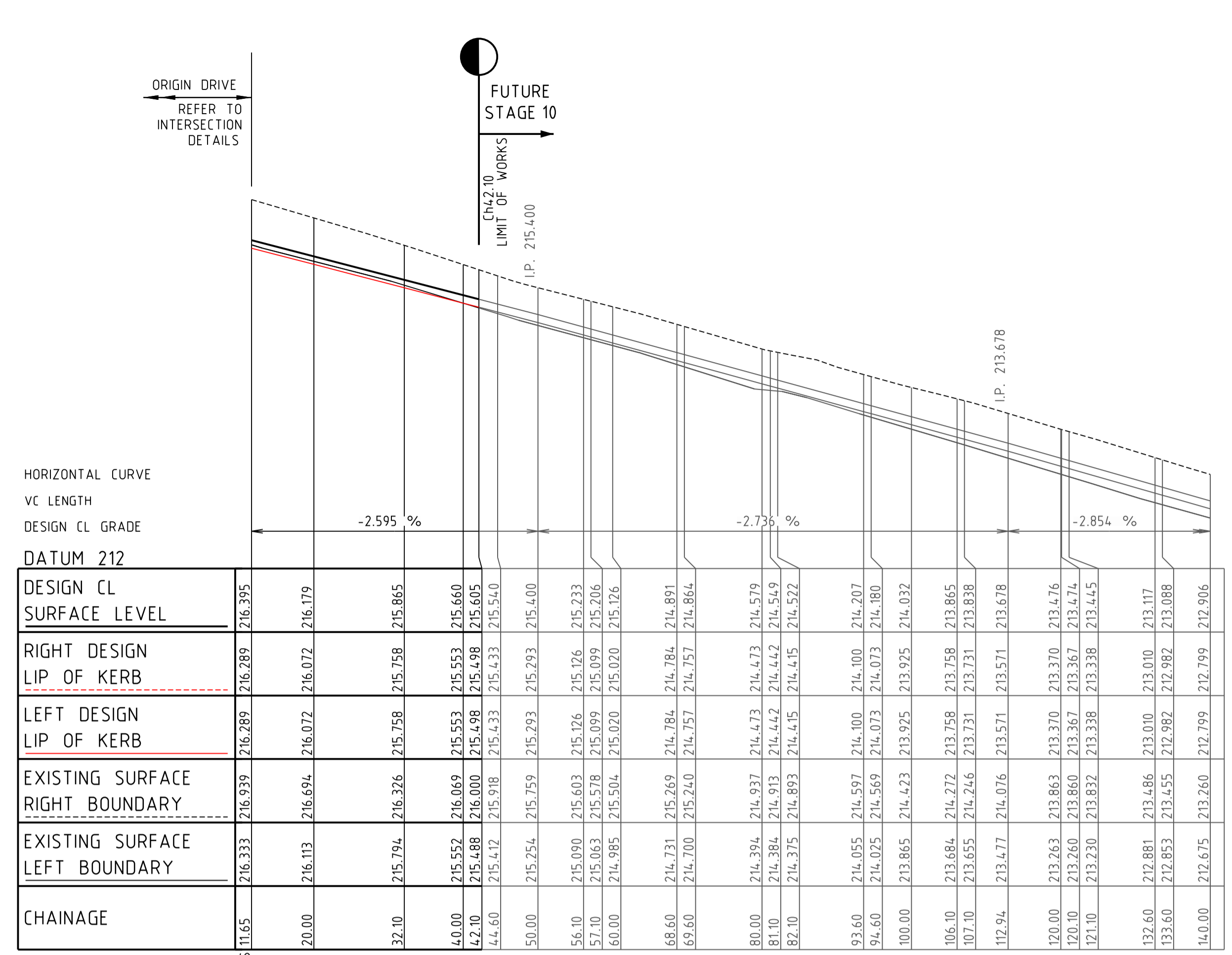
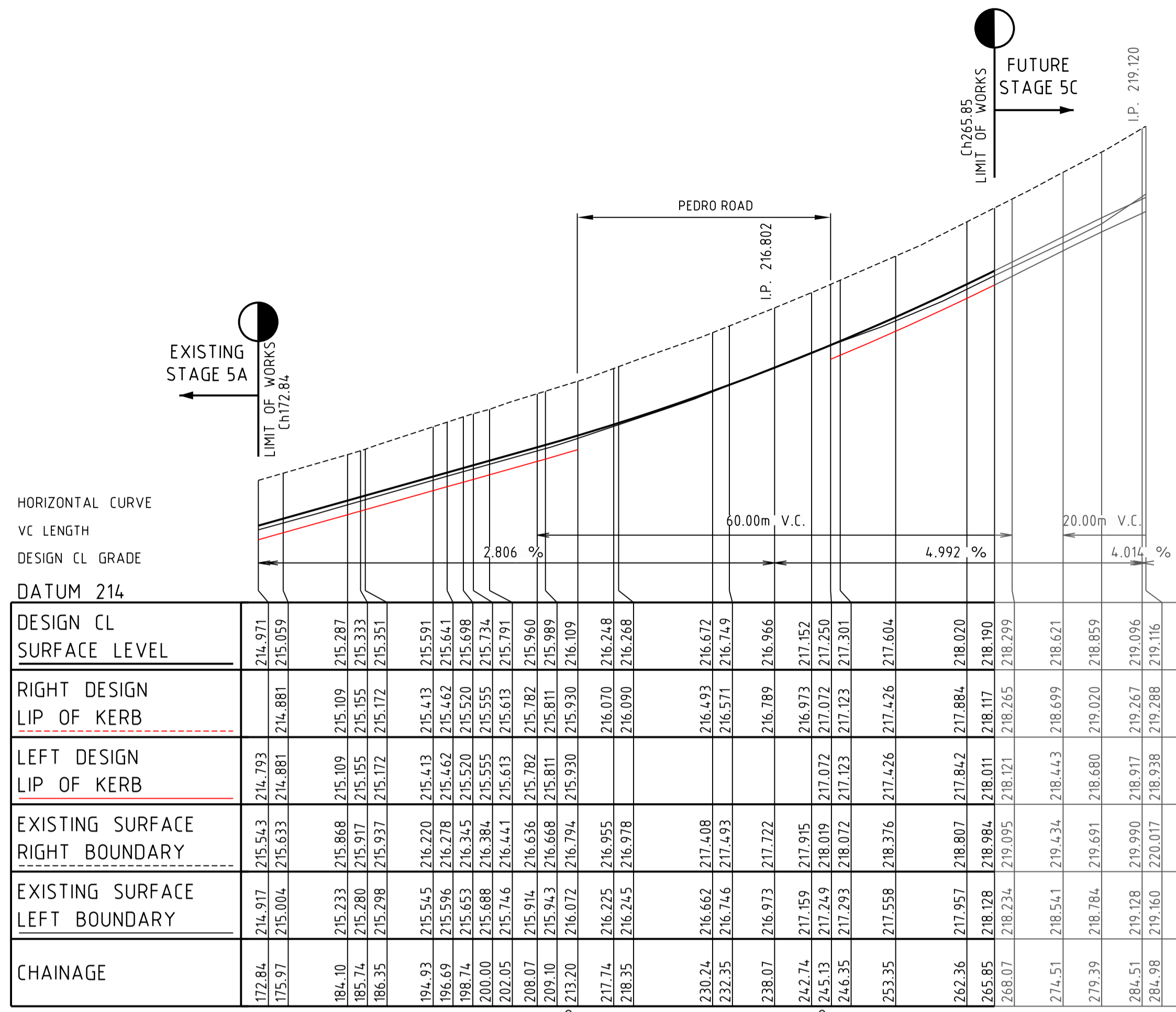
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 Designed
 R. WEINBER
 Authorised
 M. TOOMER-SMITH

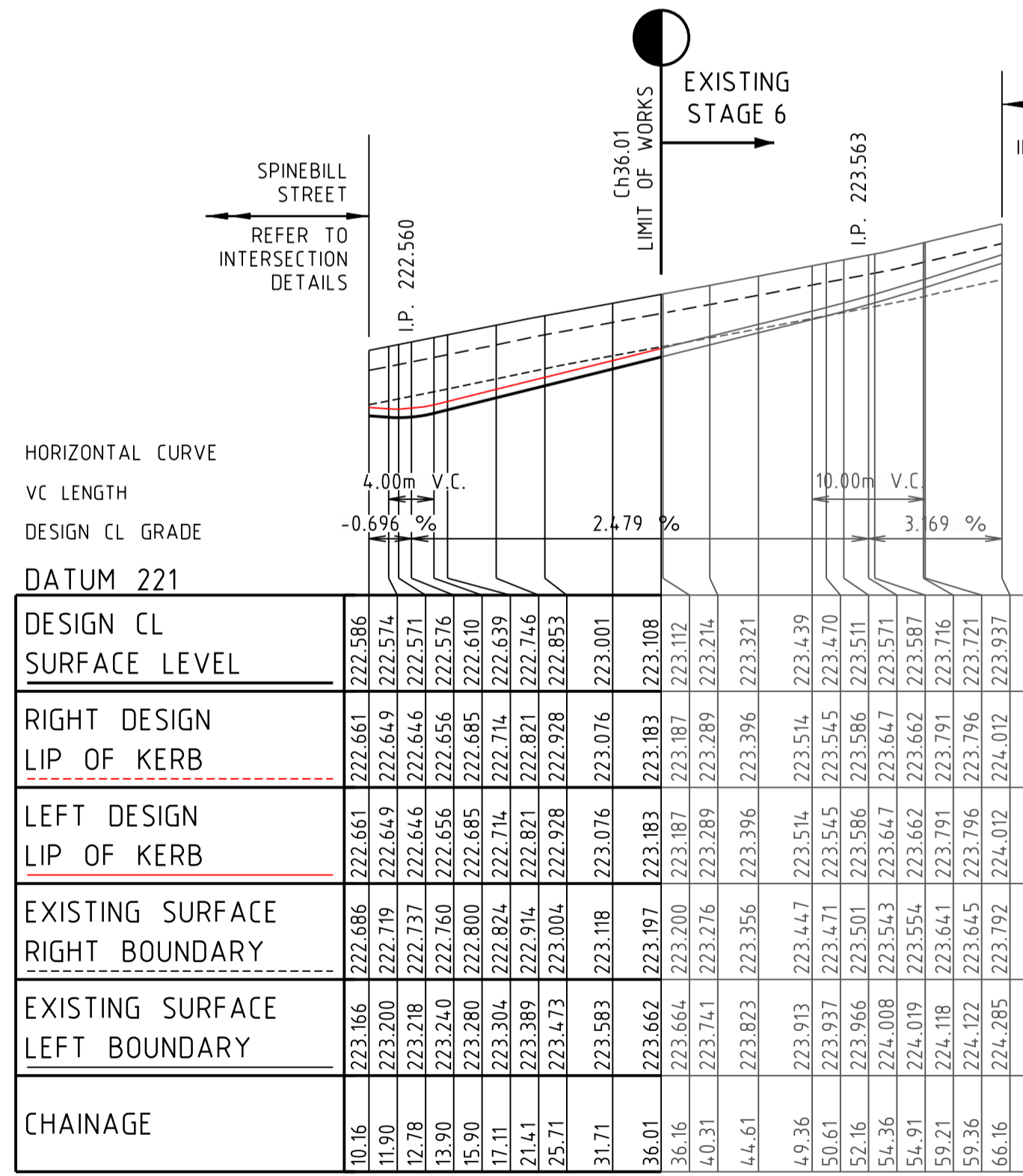
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 Checked
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 Date
 15/08/22

REDSTONE ESTATE STAGE 5B
 ROAD & DRAINAGE FACE PLAN
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R02 Rev 1

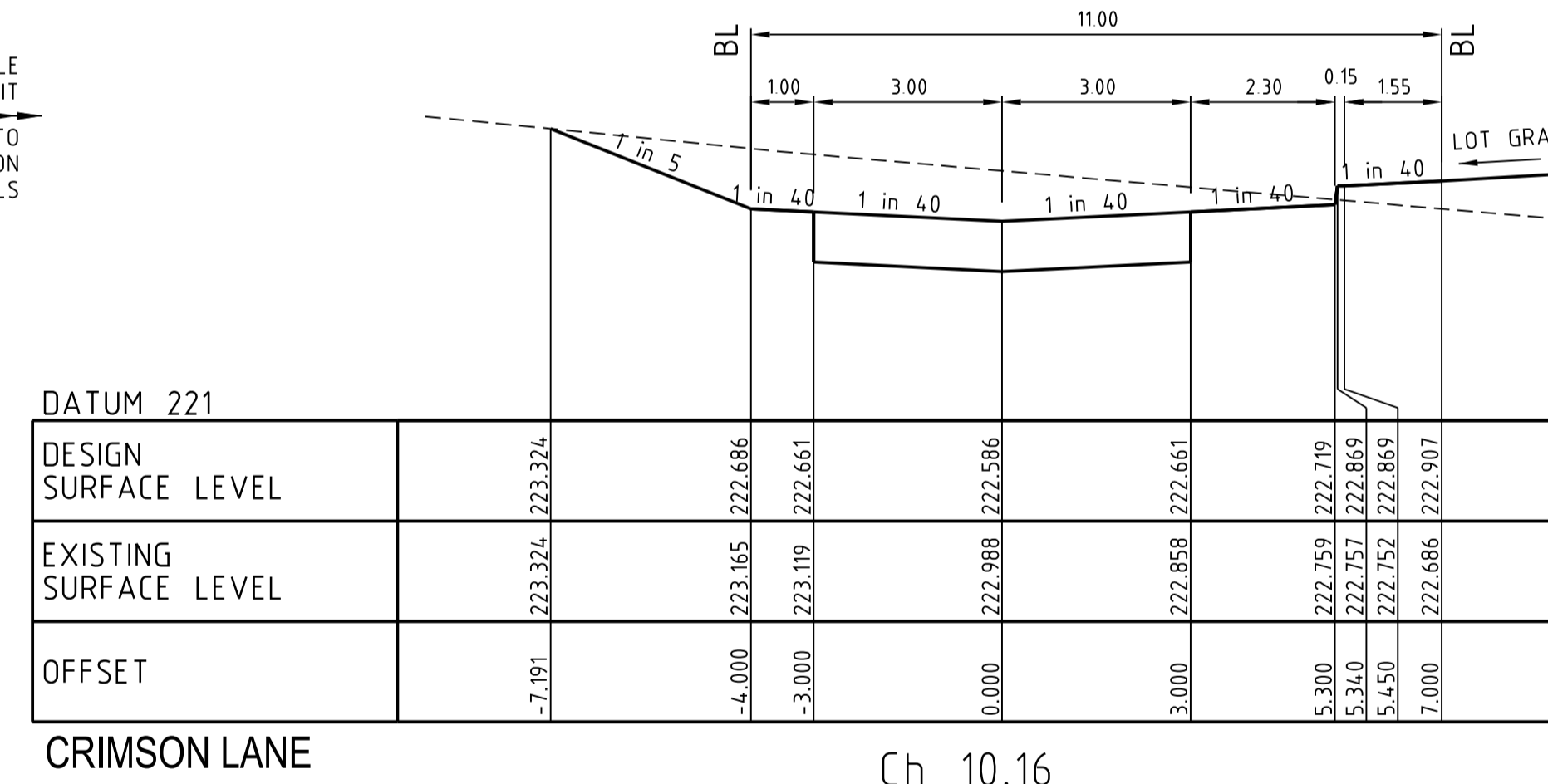


ORIGIN DRIVE

PEDRO ROAD

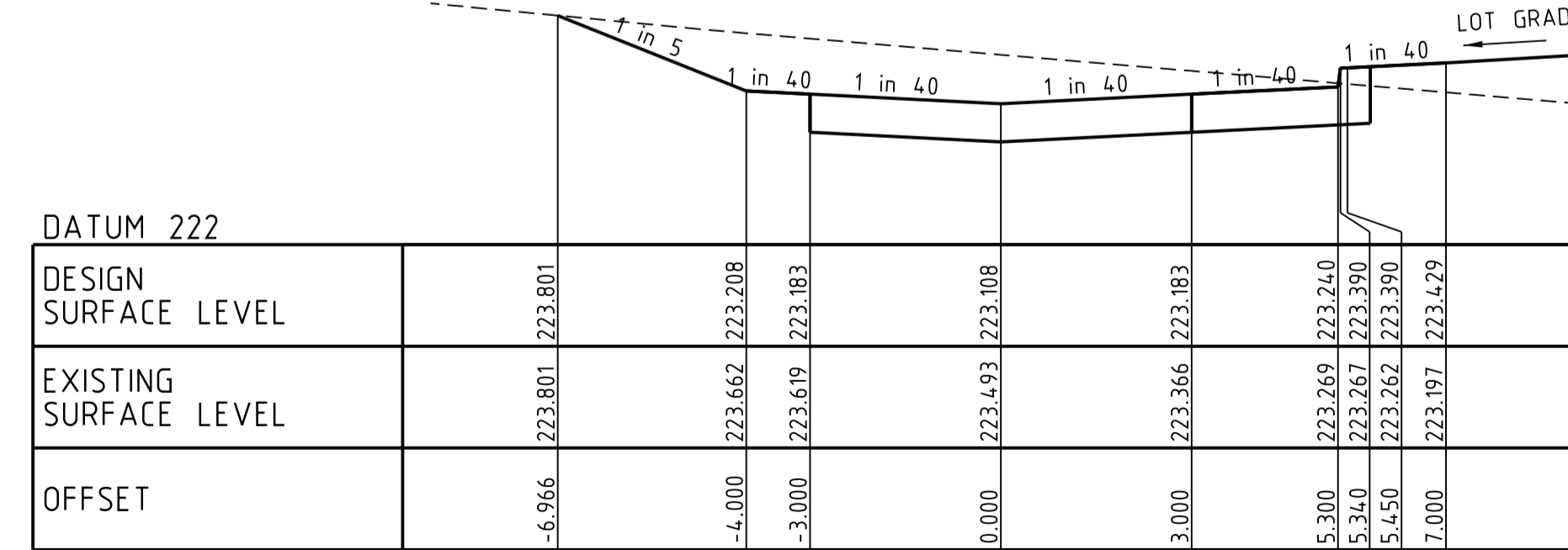


CRIMSON LANE



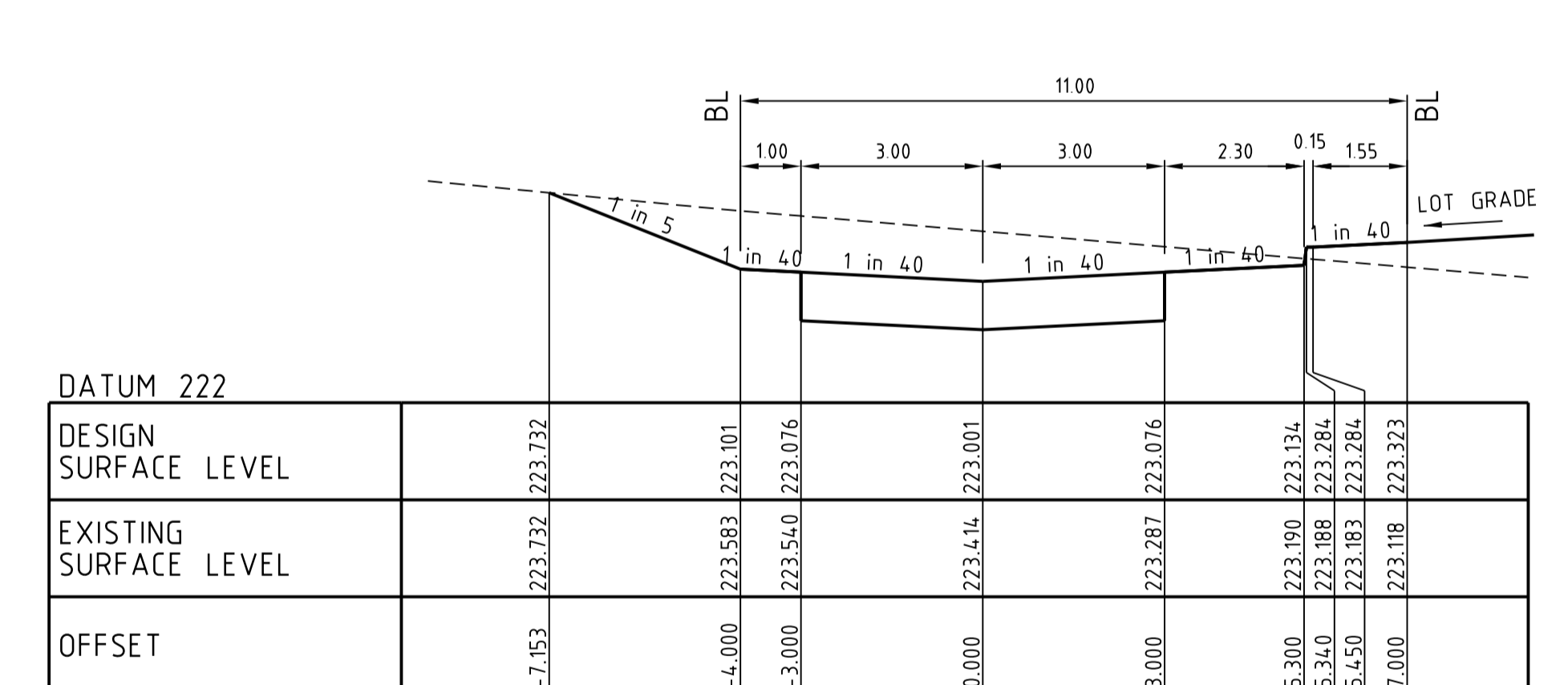
CRIMSON LANE

Ch 10.16



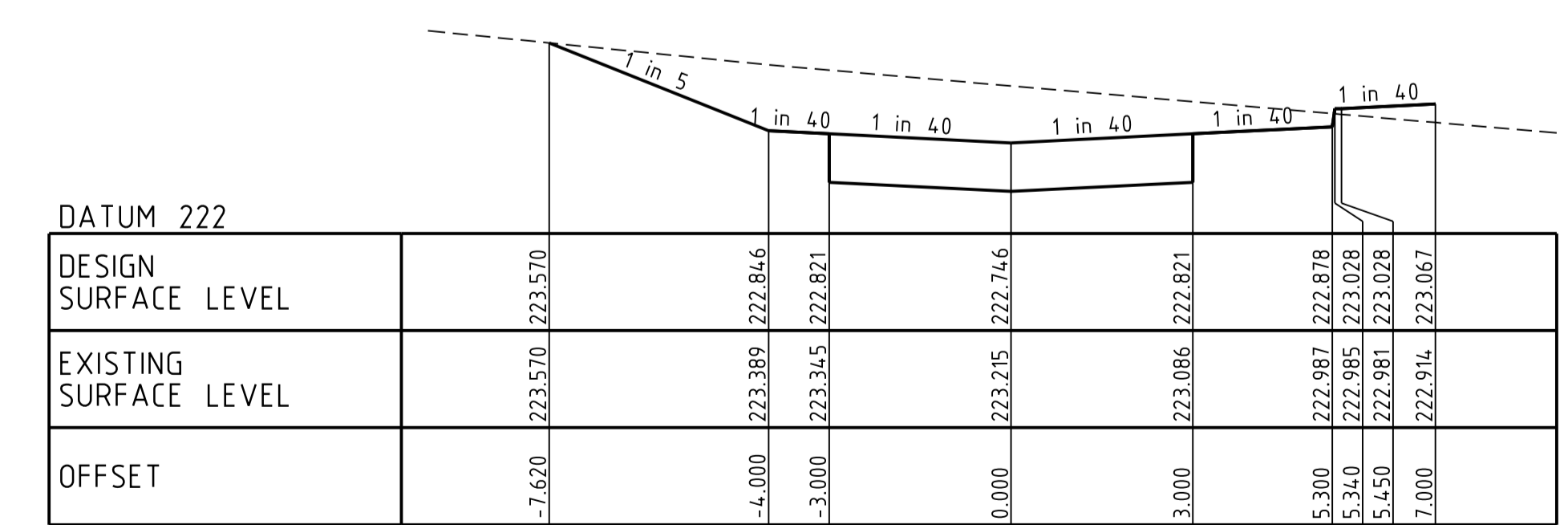
CRIMSON LANE

Ch 36.01



CRIMSON LANE

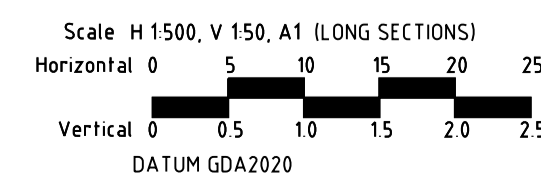
Ch 31.71



CRIMSON LANE

Ch 21.41

Rev	Amendments	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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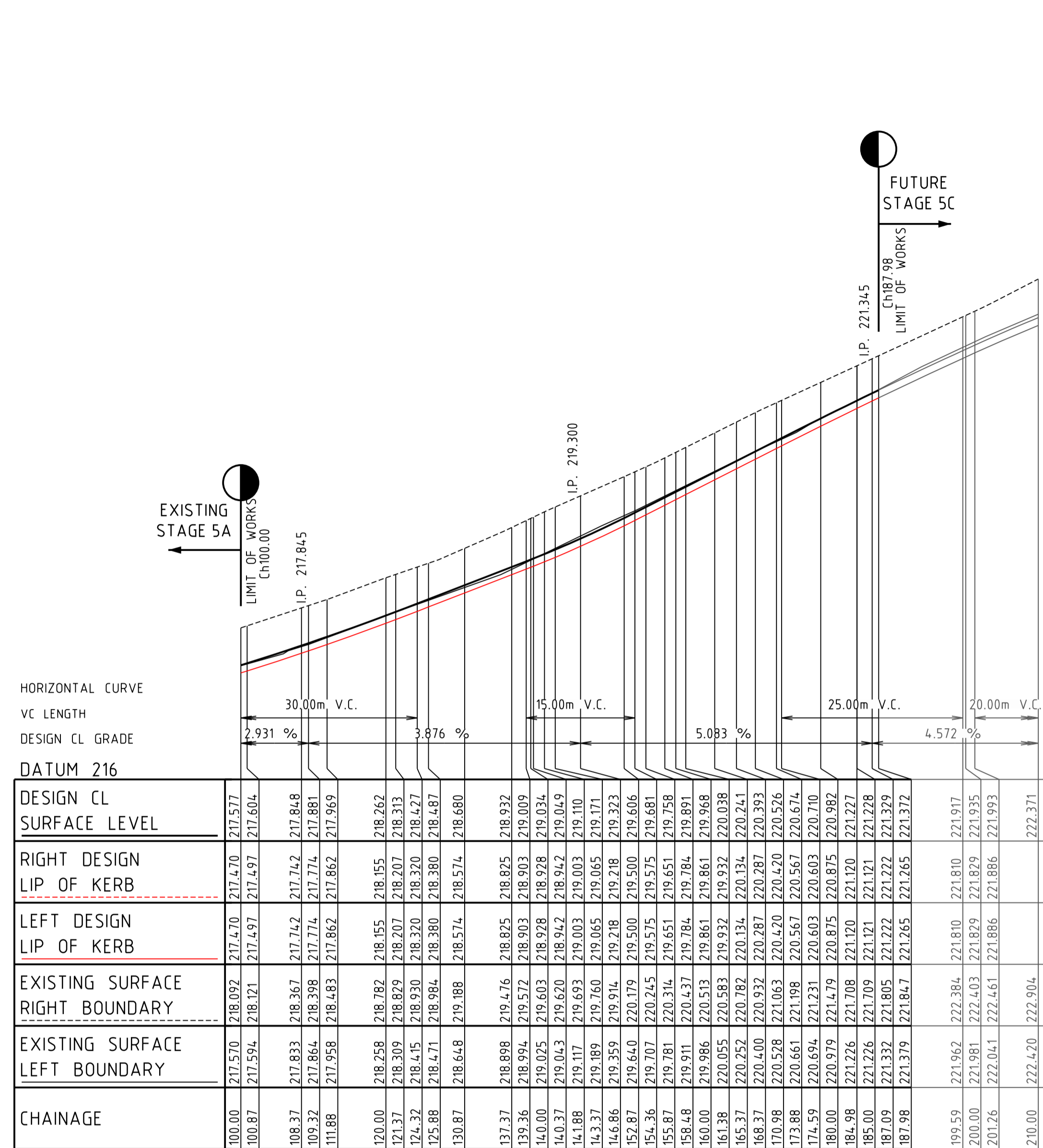
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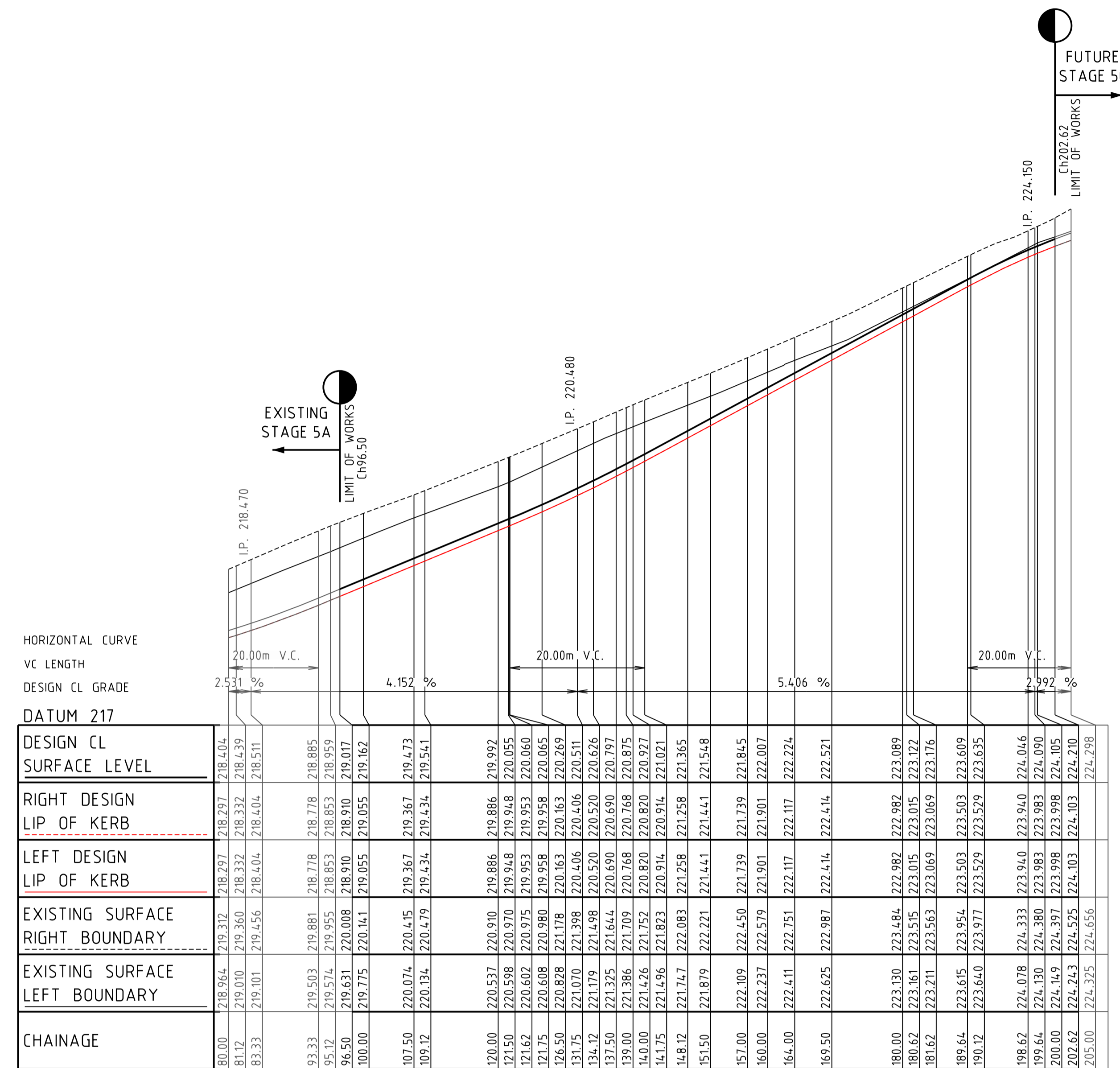
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Date 15/08/22

REDSTONE ESTATE STAGE 5B
LONGITUDINAL SECTIONS - ORIGIN DRIVE & PEDRO ROAD
CROSS SECTIONS - CRIMSON LANE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 309820R03 Rev 0

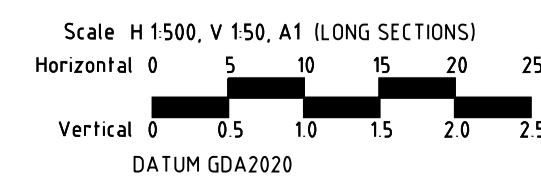


FEATHER AVENUE



SPINEBILL STREET

Rev	Amendments	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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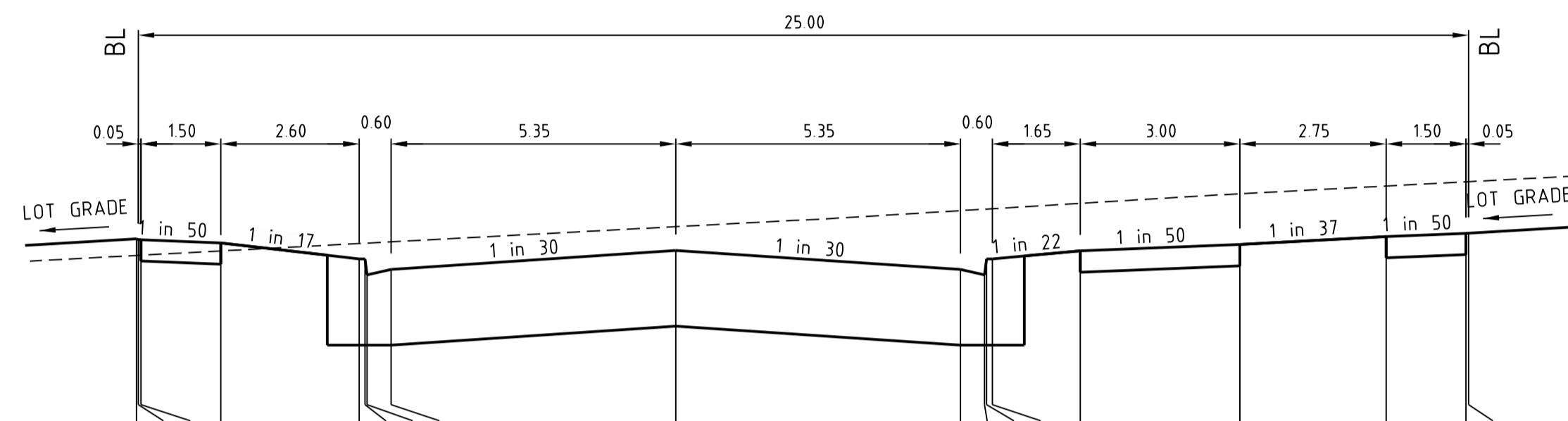
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Authorised by M. TOOMER-SMITH

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Date: 15/08/22

REDSTONE ESTATE
STAGE 5B
LONGITUDINAL SECTIONS - FEATHER AVENUE & SPINEBILL STREET
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R04 Rev 0

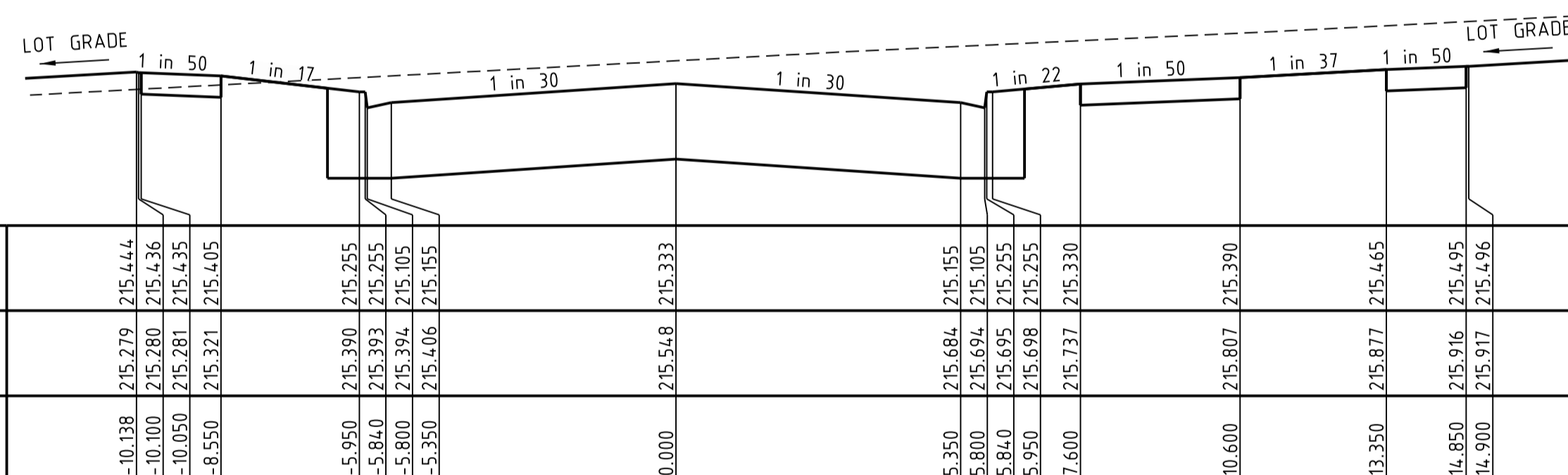


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



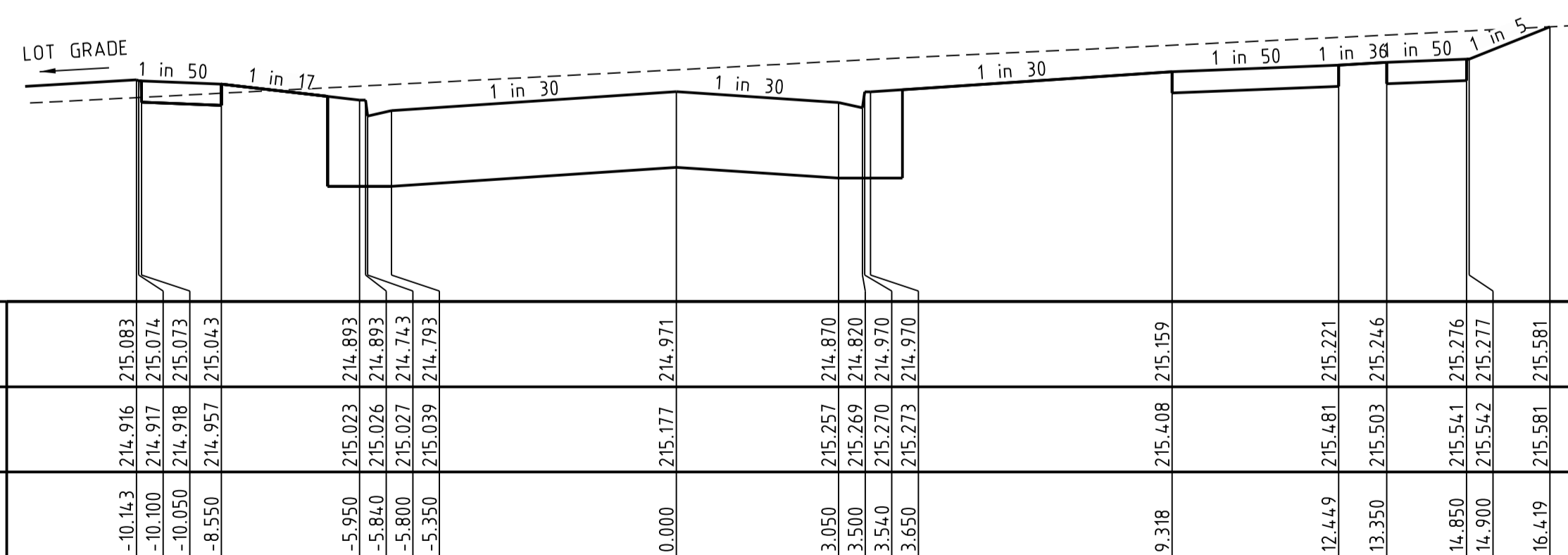
DATUM 214	
DESIGN SURFACE LEVEL	-10.134 215.652 215.808 -10.100 215.653 215.801 -10.050 215.654 215.800 -8.550 215.694 215.770 -5.950 215.764 215.620 -5.840 215.761 215.620 -5.800 215.768 215.470 -5.350 215.780 215.520 0.000 215.922 215.698 5.350 216.073 215.520 5.800 216.086 215.470 5.840 216.088 215.620 5.950 216.091 215.620 7.600 216.141 215.695 10.600 216.231 215.755 13.350 216.304 215.830 14.850 216.344 215.860 14.900 216.345 215.861
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 198.74



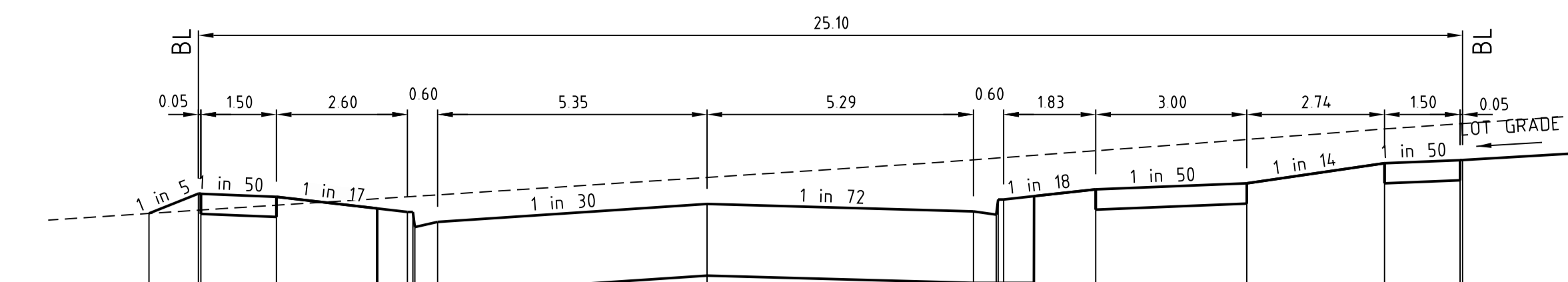
DATUM 214	
DESIGN SURFACE LEVEL	-10.138 215.279 215.444 -10.100 215.280 215.436 -10.050 215.281 215.435 -8.550 215.321 215.405 -5.950 215.390 215.255 -5.840 215.393 215.255 -5.800 215.394 215.105 -5.350 215.406 215.155 0.000 215.548 215.333 5.350 215.684 215.155 5.800 215.694 215.105 5.840 215.695 215.255 5.950 215.698 215.255 7.600 215.737 215.330 10.600 215.807 215.390 13.350 215.877 215.465 14.850 215.916 215.495 14.900 215.917 215.496
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 185.74



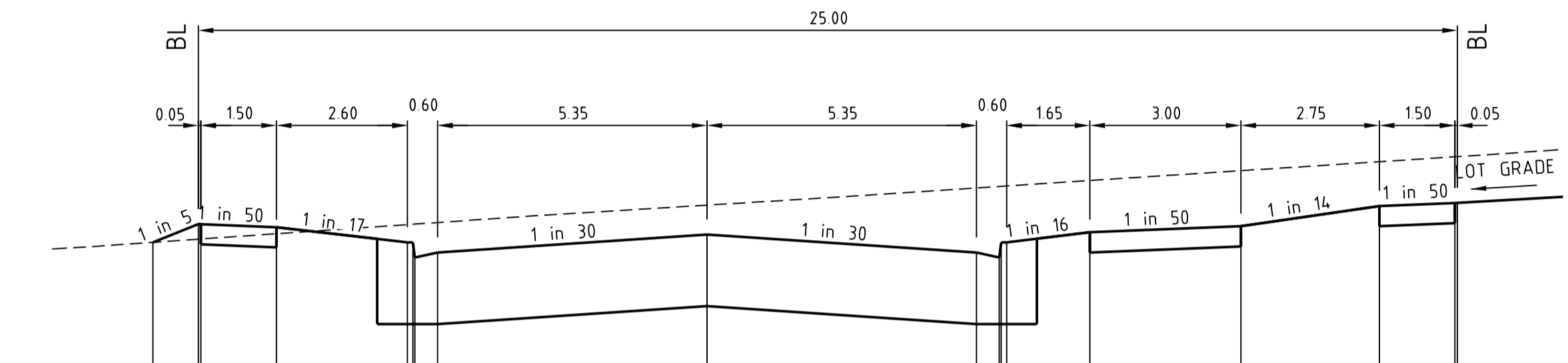
DATUM 213	
DESIGN SURFACE LEVEL	-10.143 214.916 215.083 -10.100 214.917 215.074 -10.050 214.918 215.073 -8.550 214.957 215.043 -5.950 215.023 214.893 -5.840 215.026 214.893 -5.800 215.027 214.743 -5.350 215.039 214.793 0.000 215.177 214.971 3.050 215.257 214.870 3.500 215.269 214.820 3.540 215.270 214.570 3.650 215.273 214.570 9.318 215.408 215.159 12.449 215.481 215.221 13.350 215.503 215.246 14.850 215.541 215.276 14.900 215.542 215.277 16.419 215.581 215.581
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 172.84



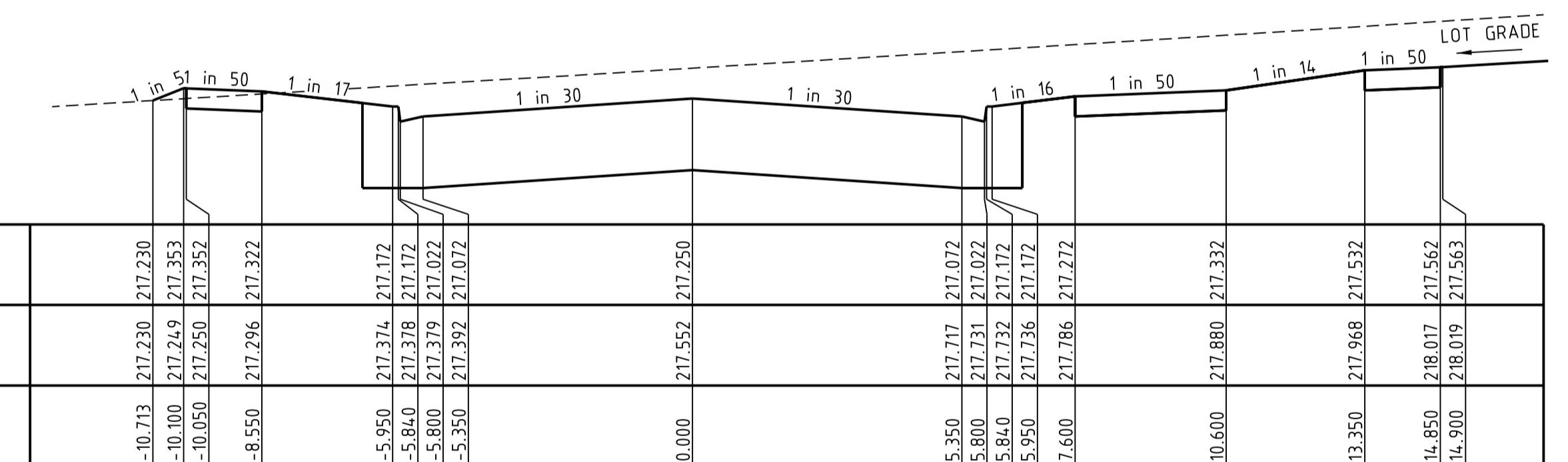
DATUM 217	
DESIGN SURFACE LEVEL	-11.080 218.096 218.292 -10.100 218.228 218.292 -10.050 218.330 218.291 -8.550 218.178 218.261 -5.950 218.261 218.111 -5.840 218.265 218.111 -5.800 218.266 217.961 -5.350 218.280 218.011 0.000 218.453 218.190 5.291 218.628 218.117 5.741 218.645 218.085 5.781 218.647 218.235 5.891 218.651 218.235 7.717 218.718 218.335 10.717 218.830 218.395 13.452 218.934 218.595 14.952 218.986 218.625 15.002 218.987 218.626
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 265.86



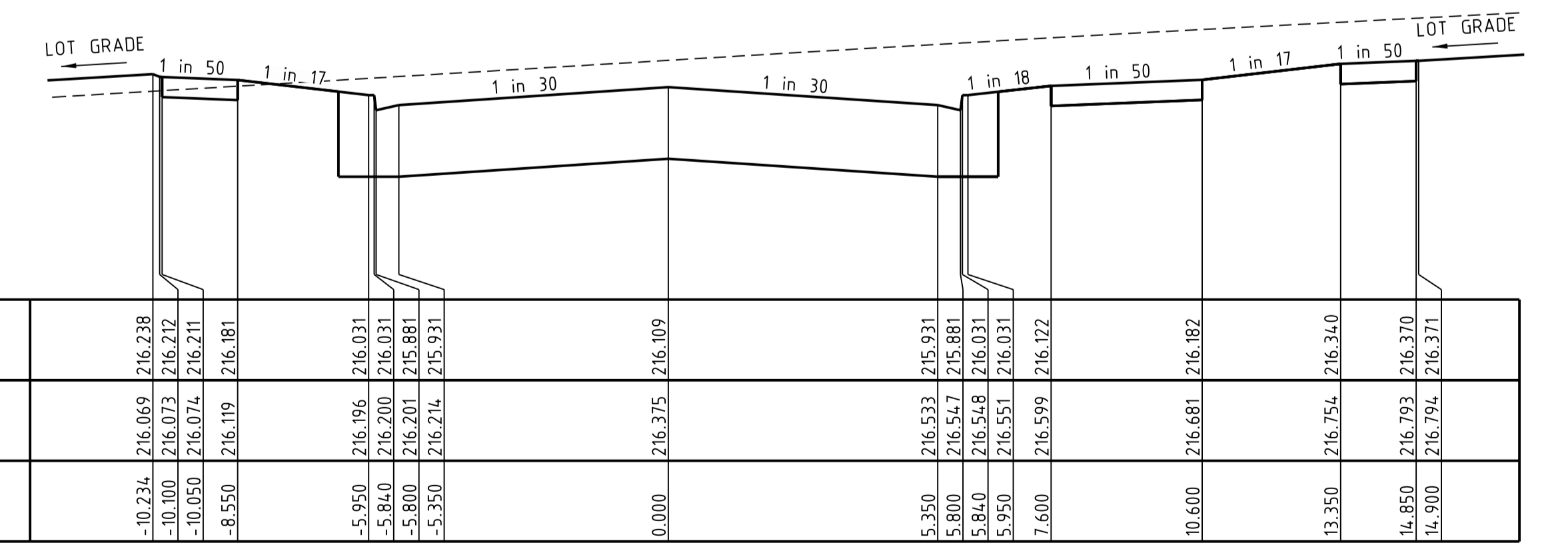
DATUM 216	
DESIGN SURFACE LEVEL	-11.003 217.526 217.526 -10.100 217.558 217.707 -10.050 217.559 217.706 -8.550 217.612 217.676 -5.950 217.702 217.526 -5.840 217.706 217.526 -5.800 217.707 217.376 -5.350 217.723 217.426 0.000 217.895 217.604 5.350 218.065 217.426 5.800 218.080 217.376 5.840 218.081 217.526 5.950 218.085 217.526 7.600 218.139 217.626 10.600 218.236 217.686 13.350 218.325 217.886 14.850 218.374 217.916 14.900 218.376 217.917
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 253.35



DATUM 216	
DESIGN SURFACE LEVEL	-10.713 217.230 217.230 -10.100 217.249 217.353 -10.050 217.250 217.352 -8.550 217.296 217.322 -5.950 217.374 217.172 -5.840 217.378 217.172 -5.800 217.379 217.022 -5.350 217.392 217.072 0.000 217.552 217.250 5.350 217.717 217.072 5.800 217.731 217.022 5.840 217.732 217.172 5.950 217.736 217.172 7.600 217.786 217.272 10.600 217.880 217.332 13.350 217.968 217.532 14.850 218.017 217.562 14.900 218.019 217.563
EXISTING SURFACE LEVEL	
OFFSET	

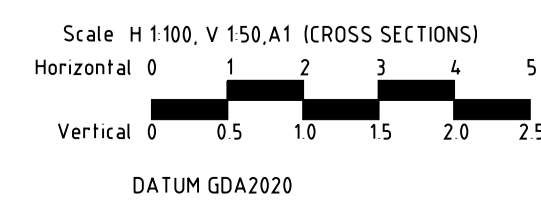
ORIGIN DRIVE Ch 245.13



DATUM 214	
DESIGN SURFACE LEVEL	-10.234 216.069 216.238 -10.100 216.073 216.212 -10.050 216.074 216.211 -8.550 216.119 216.181 -5.950 216.196 216.031 -5.840 216.200 216.031 -5.800 216.201 215.881 -5.350 216.214 215.931 0.000 216.375 216.109 5.350 216.533 215.931 5.800 216.547 215.881 5.840 216.548 216.031 5.950 216.551 216.031 7.600 216.599 216.122 10.600 216.681 216.182 13.350 216.754 216.340 14.850 216.793 216.370 14.900 216.794 216.371
EXISTING SURFACE LEVEL	
OFFSET	

ORIGIN DRIVE Ch 213.21

Rev	Issue	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23
	Amendments		



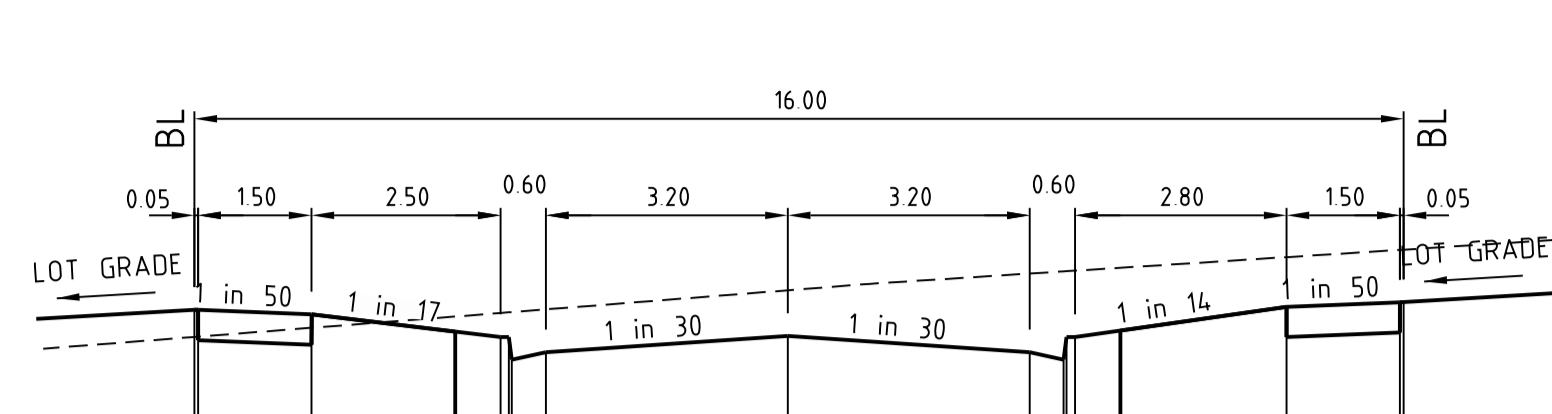
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Communities Designed for Living
 Designed
R. WEINBER
 Authorised
M. TOOMER-SMITH

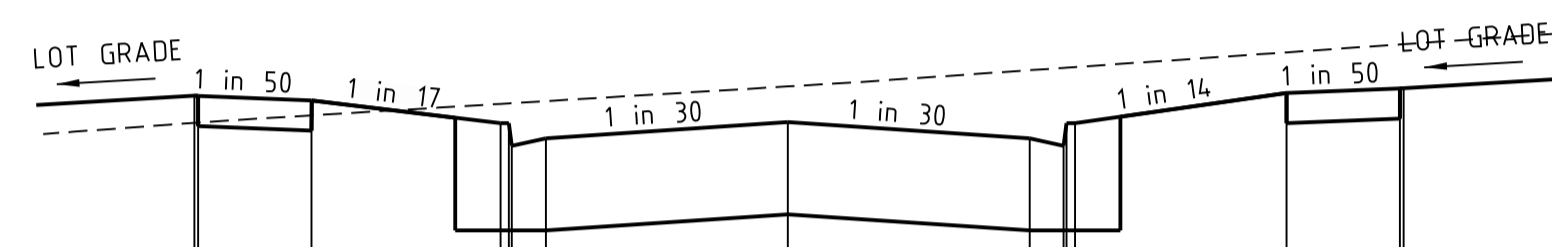
Your world awaits
 Checked
M. TOOMER-SMITH
 Date
 15/08/22

REDSTONE ESTATE
STAGE 5B
CROSS SECTIONS
ORIGIN DRIVE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No **309820R05** Rev **0**



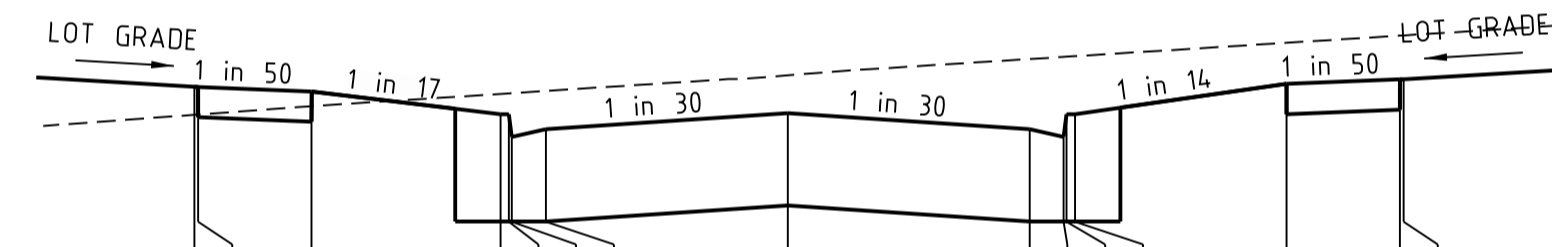
DATUM 218	
DESIGN SURFACE LEVEL	219.223, 219.222, 219.192, 219.042, 219.042, 218.892, 219.042, 219.042, 219.242, 219.272, 219.273
EXISTING SURFACE LEVEL	219.043, 219.045, 219.104, 219.202, 219.206, 219.208, 219.225, 219.225, 219.571, 219.619, 219.620, 219.713
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 140.37



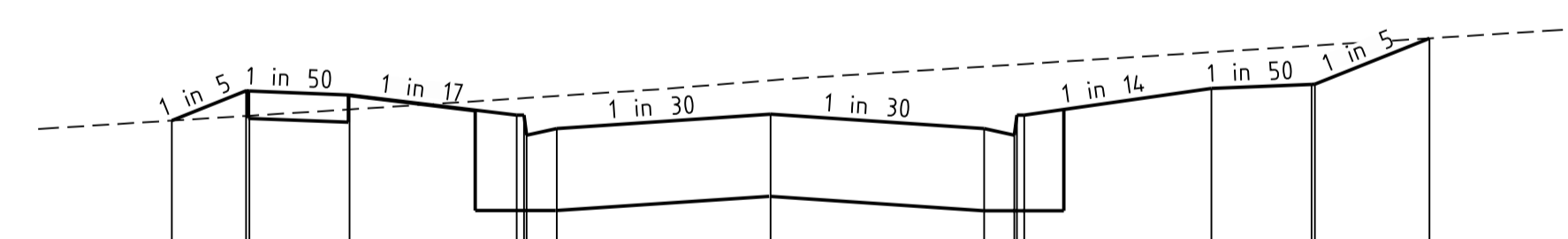
DATUM 217	
DESIGN SURFACE LEVEL	218.488, 218.487, 218.457, 218.307, 218.307, 218.157, 218.207, 218.313, 218.507, 218.537, 218.538
EXISTING SURFACE LEVEL	218.309, 218.310, 218.358, 218.434, 218.437, 218.439, 218.452, 218.549, 218.657, 218.672, 218.674, 218.678, 218.775, 218.829, 218.831
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 121.37



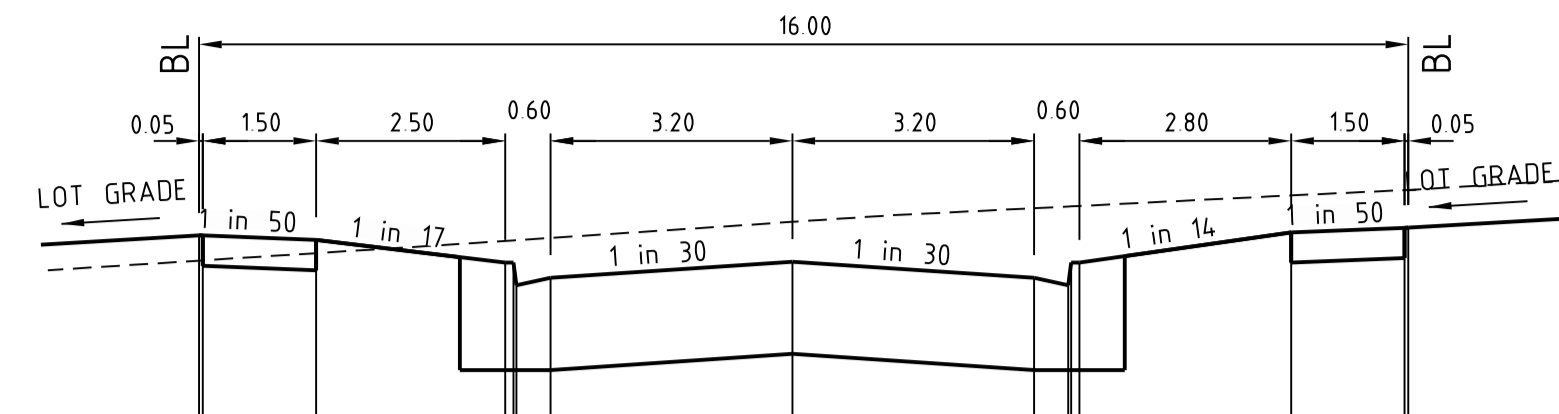
DATUM 217	
DESIGN SURFACE LEVEL	218.143, 218.142, 218.112, 217.962, 217.962, 217.812, 217.862, 217.969, 218.162, 218.192, 218.193
EXISTING SURFACE LEVEL	217.958, 217.959, 218.015, 218.096, 218.099, 218.101, 218.115, 218.219, 218.326, 218.342, 218.345, 218.434, 218.481, 218.483, 218.483
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 111.88



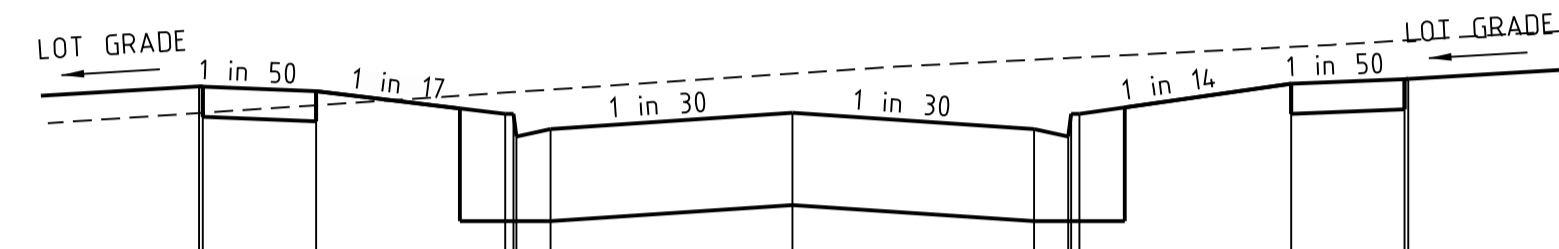
DATUM 216	
DESIGN SURFACE LEVEL	217.560, 217.782, 217.781, 217.644, 217.751, 217.601, 217.601, 217.451, 217.608, 217.801, 217.831, 217.832, 218.175
EXISTING SURFACE LEVEL	217.560, 217.595, 217.596, 217.644, 217.725, 217.725, 217.728, 217.728, 217.978, 217.978, 217.979, 217.983, 218.071, 218.119, 218.121, 218.175
OFFSET	-8.961, -7.850, -7.800, -6.300, -3.800, -3.650, -3.650, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150, 9.863

FEATHER AVENUE Ch 100.87



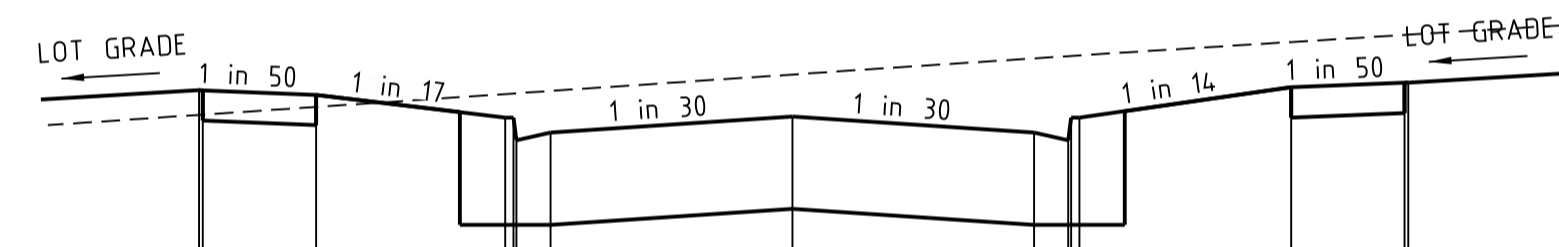
DATUM 220	
DESIGN SURFACE LEVEL	221.546, 221.545, 221.515, 221.365, 221.365, 221.215, 221.265, 221.372, 221.565, 221.595, 221.596
EXISTING SURFACE LEVEL	221.379, 221.381, 221.428, 221.509, 221.512, 221.514, 221.515, 221.635, 221.726, 221.737, 221.738, 221.741, 221.810, 221.845, 221.847
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 187.98



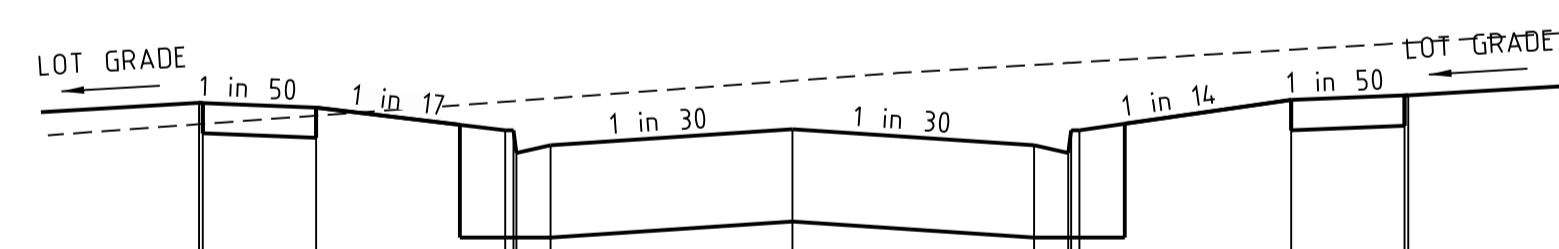
DATUM 220	
DESIGN SURFACE LEVEL	221.401, 221.400, 221.220, 221.220, 221.070, 221.070, 221.220, 221.227, 221.420, 221.450, 221.451
EXISTING SURFACE LEVEL	221.226, 221.227, 221.370, 221.381, 221.364, 221.366, 221.381, 221.487, 221.578, 221.590, 221.591, 221.593, 221.663, 221.706, 221.708
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 184.98



DATUM 219	
DESIGN SURFACE LEVEL	220.415, 220.414, 220.384, 220.234, 220.234, 220.084, 220.134, 220.241, 220.434, 220.464, 220.465
EXISTING SURFACE LEVEL	220.252, 220.254, 220.305, 220.390, 220.393, 220.395, 220.400, 220.519, 220.626, 220.640, 220.642, 220.645, 220.734, 220.781, 220.782
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 165.37

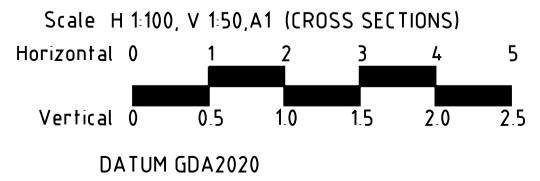


DATUM 218	
DESIGN SURFACE LEVEL	219.781, 219.780, 219.600, 219.600, 219.450, 219.450, 219.600, 219.606, 219.800, 219.830, 219.831
EXISTING SURFACE LEVEL	219.640, 219.642, 219.750, 219.786, 219.792, 219.794, 219.794, 219.927, 220.032, 220.046, 220.046, 220.132, 220.177, 220.179
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.650, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 6.600, 8.100, 8.150

FEATHER AVENUE Ch 152.87

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

Rev	Amendments	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



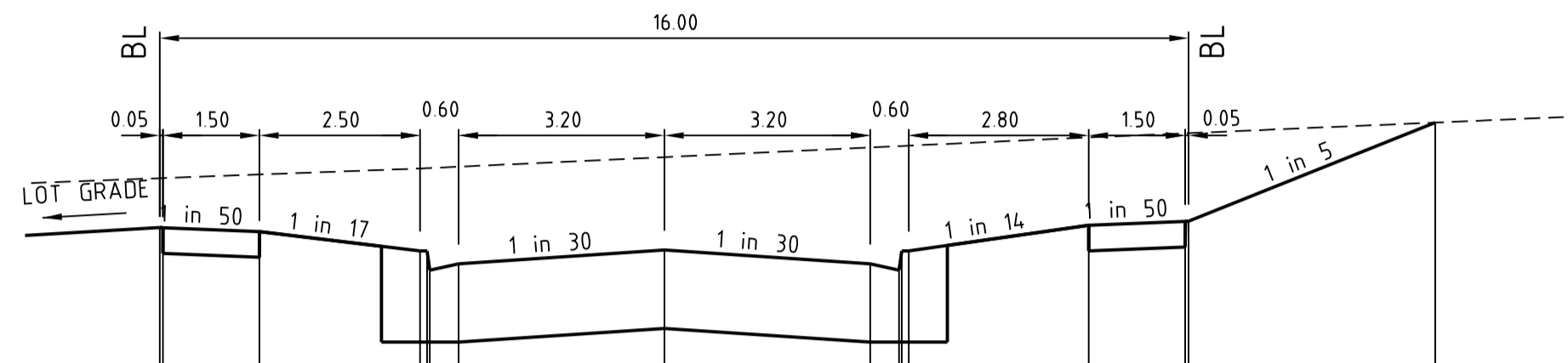
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villawood properties
Communities Designed for Living
Designed R. WEINBER
Authorised M. TOOMER-SMITH

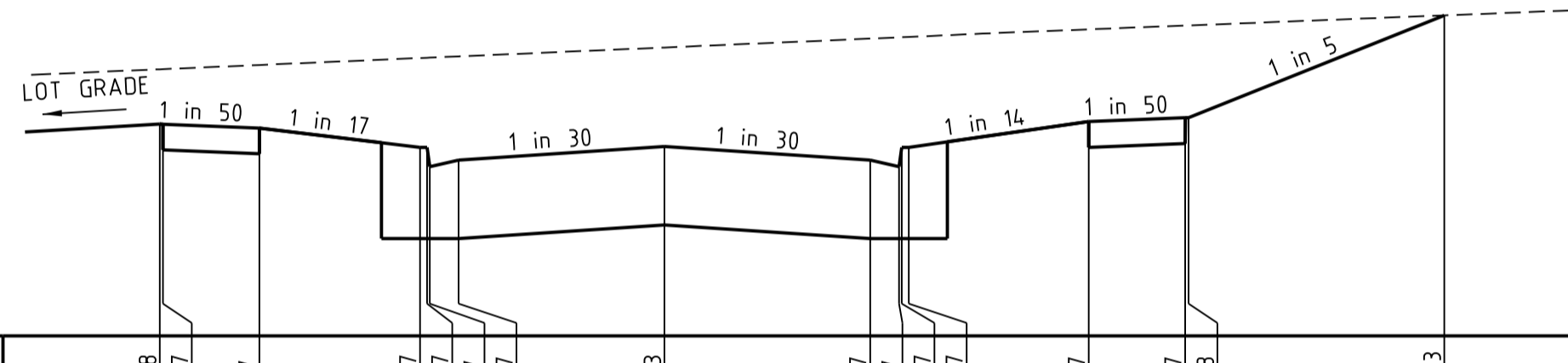
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Checked M. TOOMER-SMITH
Date 15/08/22

REDSTONE ESTATE STAGE 5B
CROSS SECTIONS
FEATHER AVENUE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R06 Rev 0



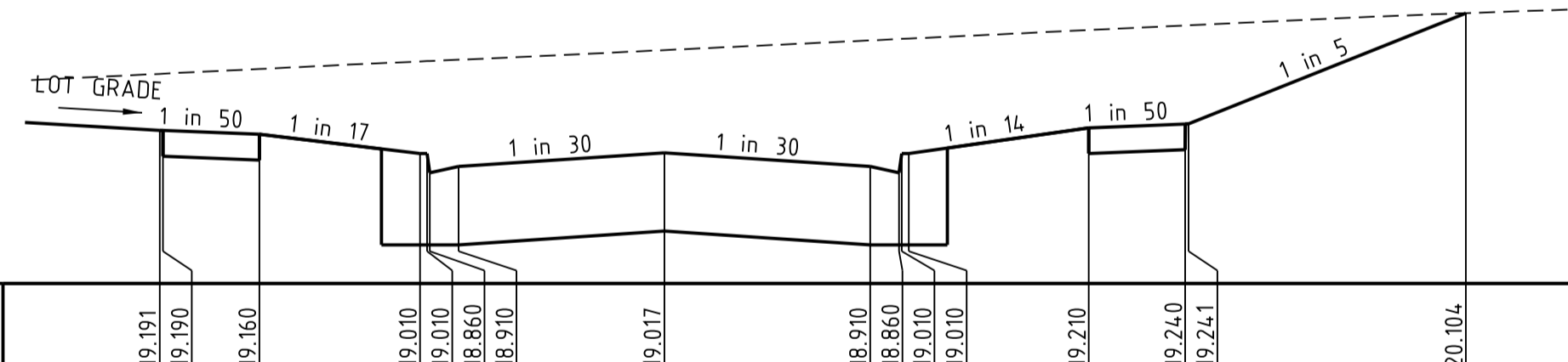
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DESIGN SURFACE LEVEL	220.444, 220.443, 220.413, 220.263, 220.263, 220.113, 220.113, 220.263, 220.263, 220.463, 220.493, 221.261
EXISTING SURFACE LEVEL	220.828, 220.829, 220.857, 220.904, 220.906, 220.907, 220.917, 220.917, 220.992, 221.145, 221.177, 221.178, 221.261
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.200, 0.000, 3.200, 3.650, 3.690, 3.800, 6.600, 8.100, 8.150, 11.985

SPINEBILL STREET Ch 126.50



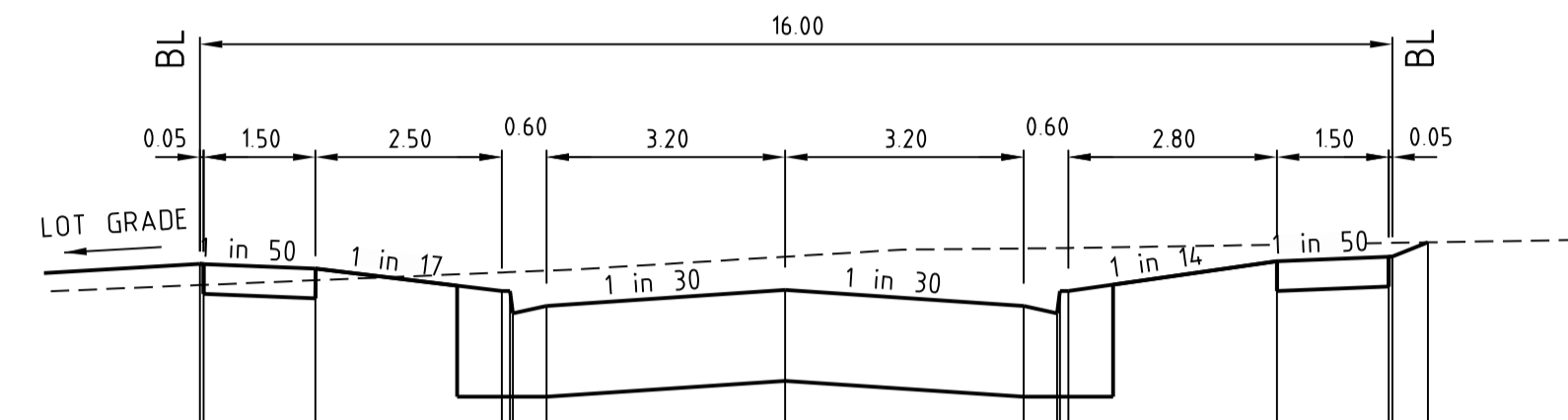
DATUM 218	
DESIGN SURFACE LEVEL	219.648, 219.667, 219.617, 219.467, 219.467, 219.317, 219.317, 219.467, 219.467, 219.667, 219.697, 219.698, 220.493
EXISTING SURFACE LEVEL	220.074, 220.075, 220.107, 220.161, 220.164, 220.165, 220.174, 220.174, 220.243, 220.285, 220.414, 220.415, 220.493
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.200, 0.000, 3.200, 3.650, 3.690, 3.800, 6.600, 8.100, 8.150, 12.728

SPINEBILL STREET Ch 107.50



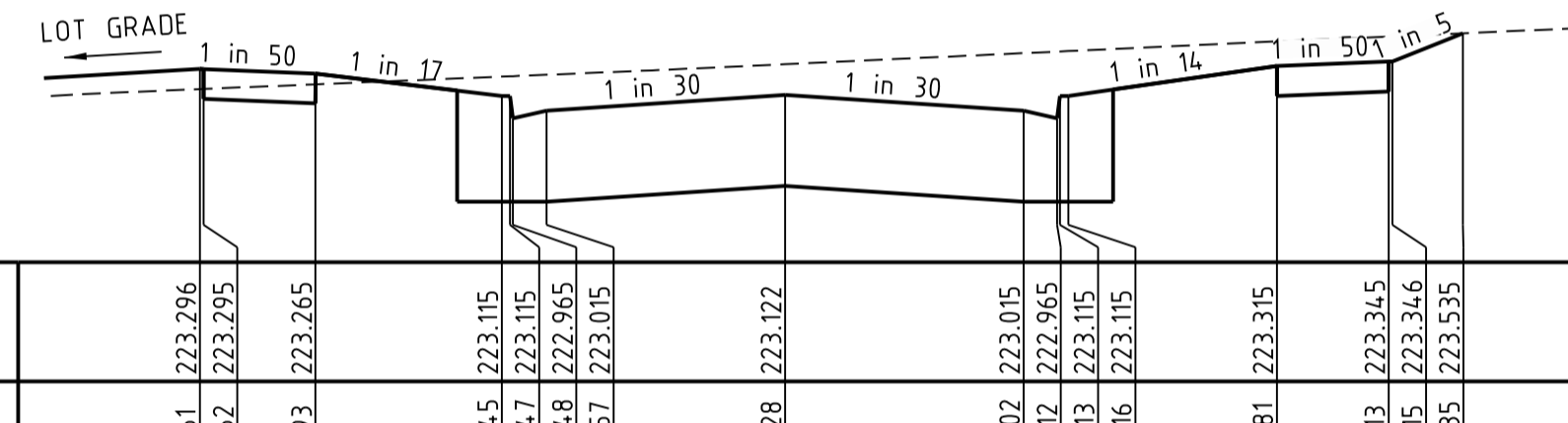
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DESIGN SURFACE LEVEL	219.191, 219.190, 219.160, 219.010, 219.010, 218.860, 218.860, 219.010, 219.010, 219.210, 219.240, 220.104
EXISTING SURFACE LEVEL	219.631, 219.632, 219.669, 219.727, 219.730, 219.731, 219.731, 219.740, 219.815, 219.971, 220.007, 220.008, 220.104
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.650, -3.200, 0.000, 3.200, 3.650, 3.690, 6.600, 8.100, 8.150, 12.463

SPINEBILL STREET Ch 96.50



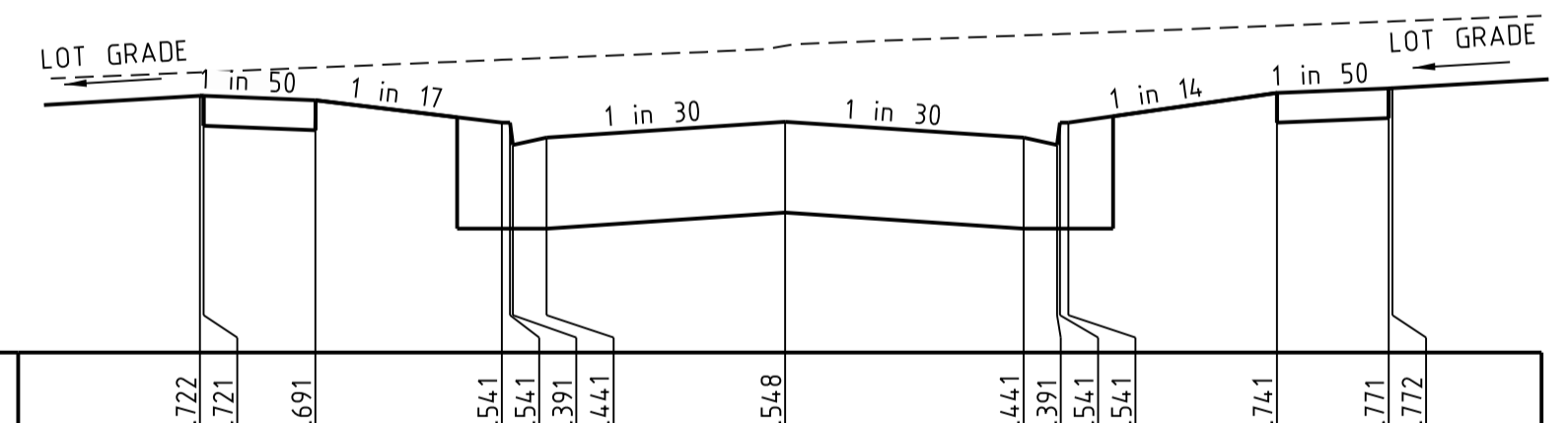
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DESIGN SURFACE LEVEL	224.384, 224.383, 224.353, 224.203, 224.203, 224.053, 224.053, 224.203, 224.203, 224.210, 224.403, 224.433, 224.434, 224.529
EXISTING SURFACE LEVEL	224.213, 224.214, 224.275, 224.327, 224.329, 224.330, 224.339, 224.339, 224.432, 224.513, 224.525, 224.525, 224.529
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.200, 0.000, 3.200, 3.650, 3.690, 3.800, 6.600, 8.100, 8.150, 8.624

SPINEBILL STREET Ch 202.62



DATUM 222	
DESIGN SURFACE LEVEL	223.296, 223.295, 223.265, 223.115, 223.115, 222.965, 222.965, 223.115, 223.115, 223.122, 223.315, 223.345, 223.346, 223.535
EXISTING SURFACE LEVEL	223.161, 223.162, 223.193, 223.245, 223.247, 223.248, 223.248, 223.257, 223.328, 223.481, 223.513, 223.515, 223.515, 223.535
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.200, 0.000, 3.200, 3.650, 3.690, 3.800, 6.600, 8.100, 8.150, 9.095

SPINEBILL STREET Ch 180.62

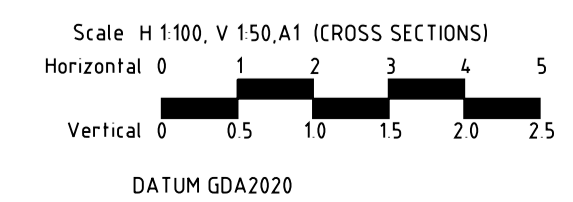


DATUM 220	
DESIGN SURFACE LEVEL	221.722, 221.721, 221.691, 221.541, 221.541, 221.391, 221.391, 221.541, 221.541, 221.548, 221.741, 221.771, 221.772
EXISTING SURFACE LEVEL	221.879, 221.880, 221.911, 221.963, 221.965, 221.966, 221.966, 221.975, 222.057, 222.191, 222.270, 222.271, 222.272
OFFSET	-7.850, -7.800, -6.300, -3.800, -3.690, -3.200, 0.000, 3.200, 3.650, 3.690, 3.800, 6.600, 8.100, 8.150

SPINEBILL STREET Ch 151.50



Rev	Description	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23
	Amendments		



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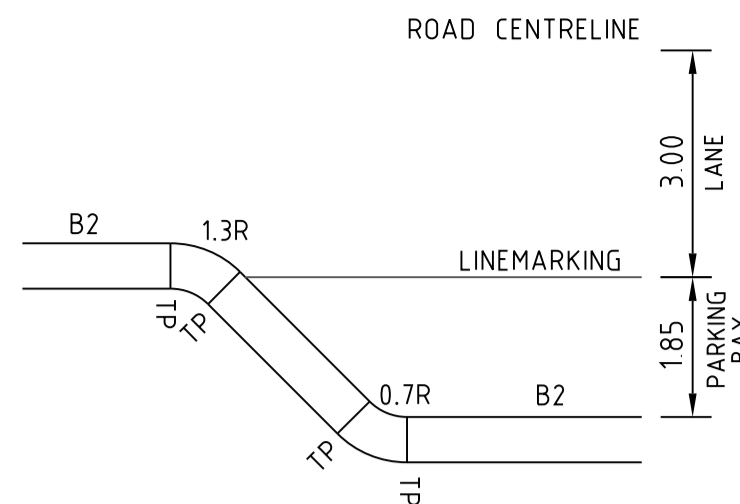
Checked
M. TOOMER-SMITH

Authorised
M. TOOMER-SMITH

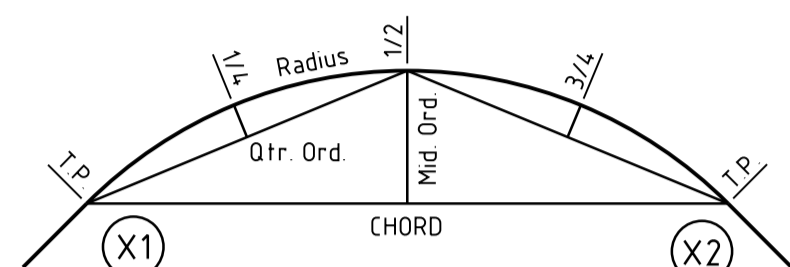
Date
15/08/22

REDSTONE ESTATE
STAGE 5B
CROSS SECTIONS
SPINEBILL STREET
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

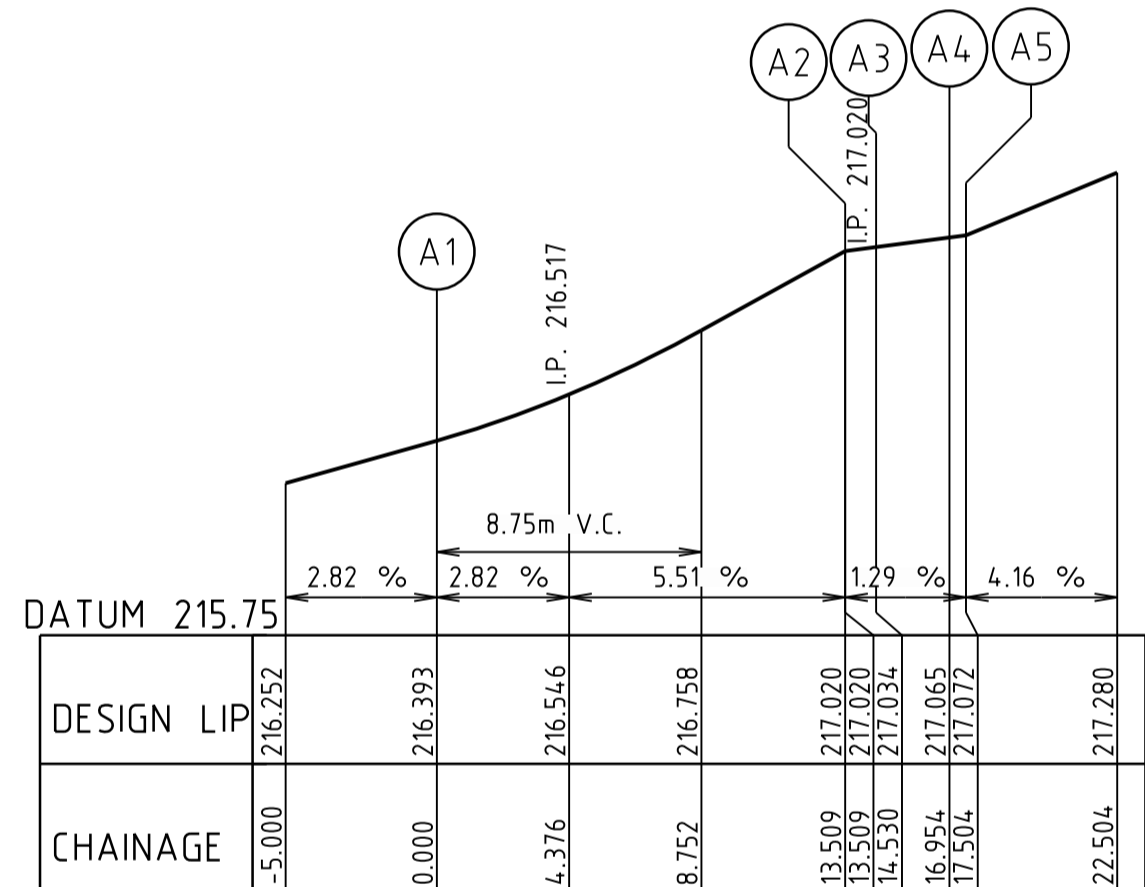
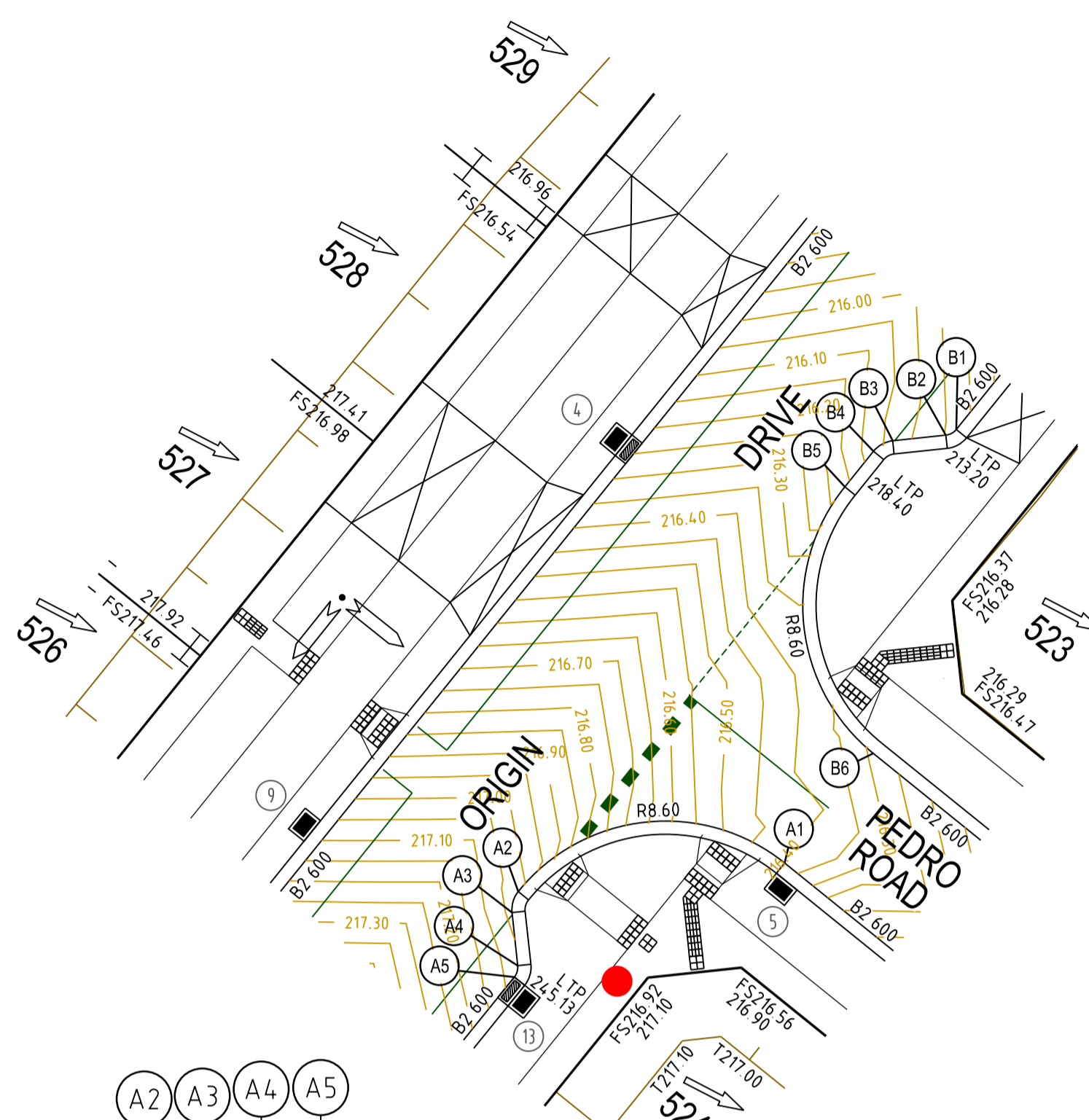
AS CONSTRUCTED Drg No 309820R07 Rev 0



TYPICAL KERB INDENT DETAIL
N.T.S



KERB RETURN SETOUT DETAIL

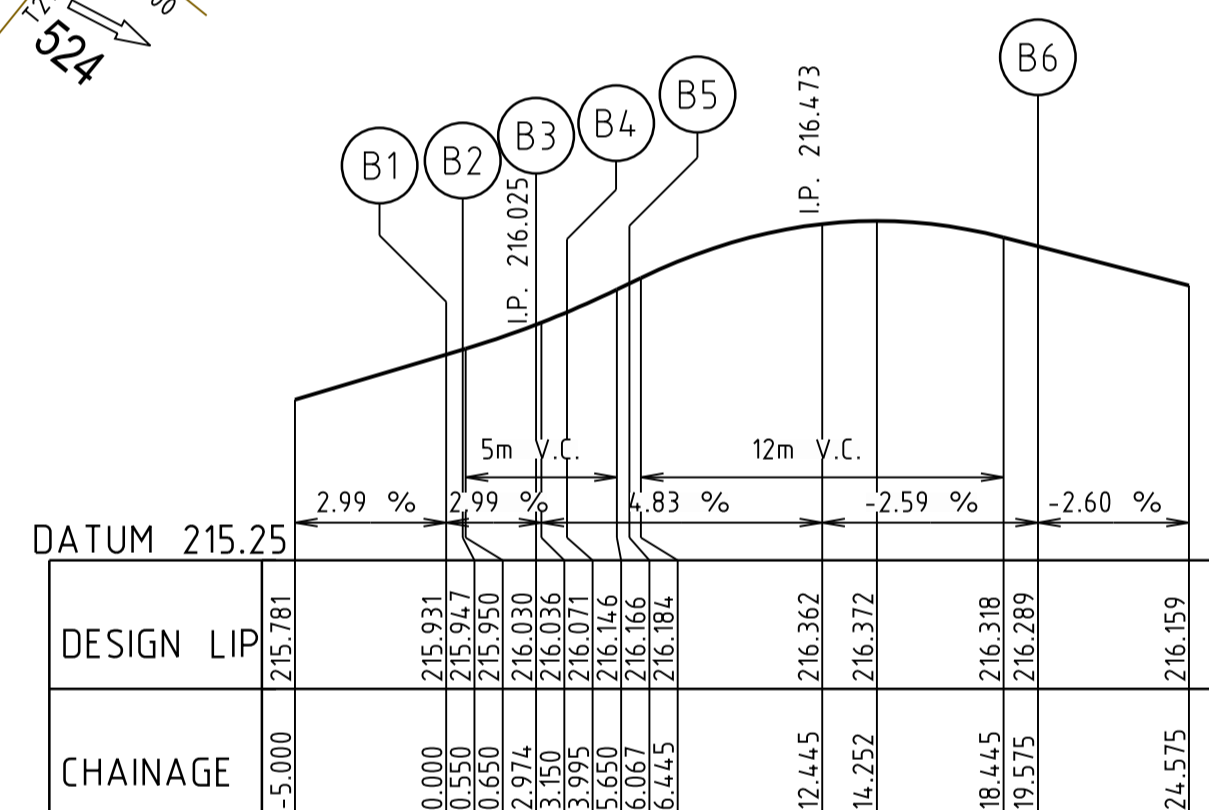


LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	302147.896	5835769.382	216.393
1/4	302144.924	5835770.940	216.506
1/2	302141.582	5835771.241	216.654
3/4	302138.379	5835770.241	216.834
A2	302135.803	5835768.091	217.020
1/4	302135.663	5835767.878	217.024
1/2	302135.567	5835767.642	217.027
3/4	302135.520	5835767.392	217.030
A3	302135.522	5835767.137	217.034
A4	302135.779	5835764.726	217.065
1/4	302135.780	5835764.589	217.067
1/2	302135.755	5835764.454	217.068
3/4	302135.703	5835764.327	217.070
A5	302135.628	5835764.212	217.072

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



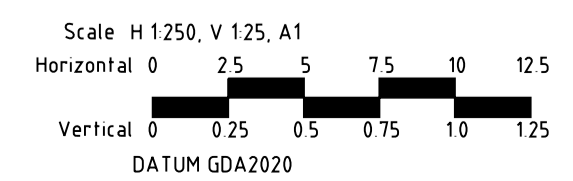
LIP LINE B
Hor250
Ver25

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	302155.680	5835789.058	215.931
1/4	302155.584	5835788.961	215.935
1/2	302155.470	5835788.883	215.939
3/4	302155.344	5835788.830	215.943
B2	302155.210	5835788.802	215.947
B3	302152.799	5835788.545	216.030
1/4	302152.550	5835788.493	216.039
1/2	302152.315	5835788.393	216.050
3/4	302152.104	5835788.250	216.060
B4	302151.925	5835788.068	216.071
B5	302150.624	5835786.456	216.166
1/4	302149.067	5835783.484	216.301
1/2	302148.765	5835780.142	216.366
3/4	302149.766	5835776.939	216.361
B6	302151.916	5835774.363	216.289

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
B5-B6	8.600	13.509	12.162	2.519	-0.655

Rev	Amendments	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



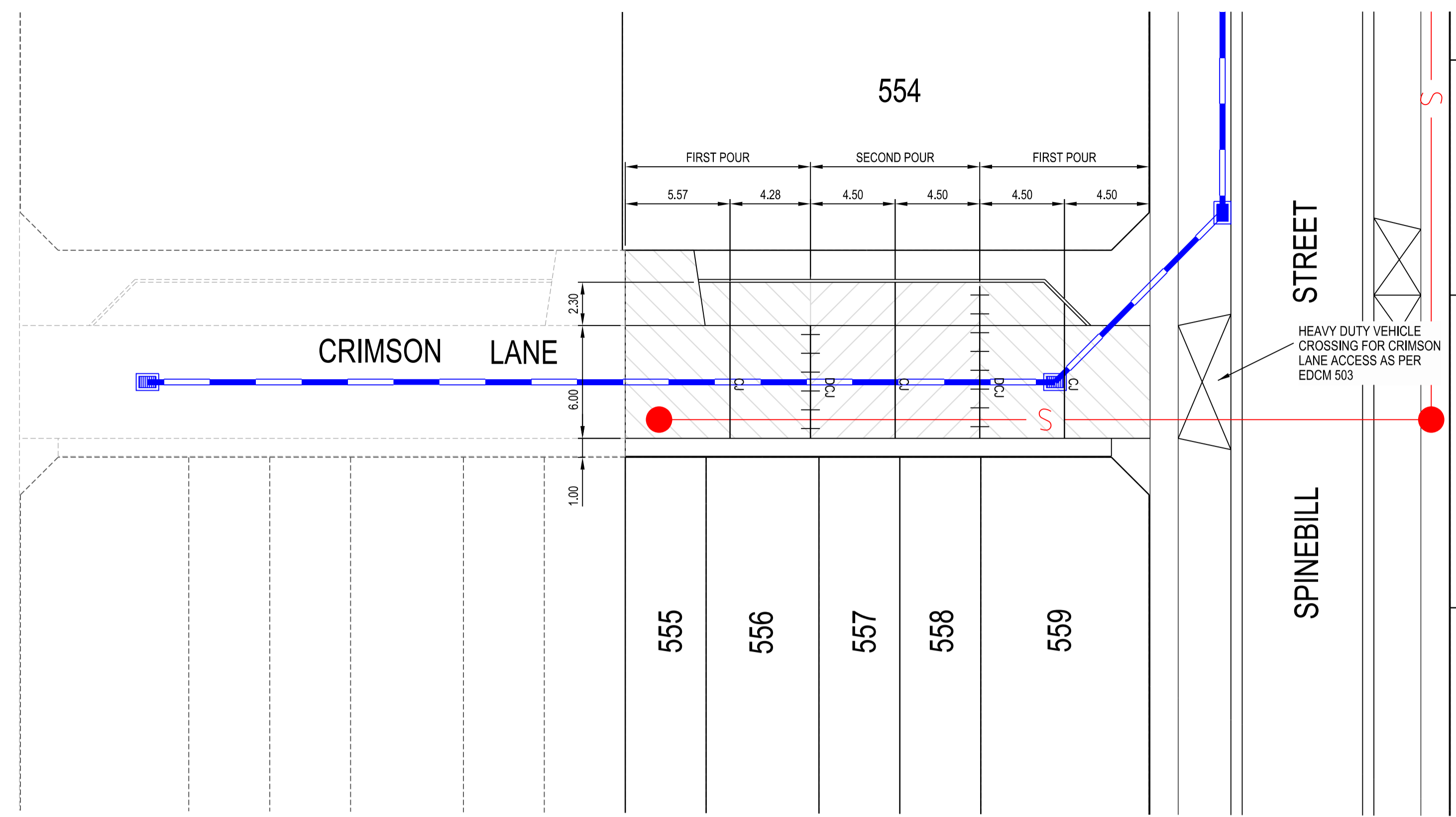
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Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

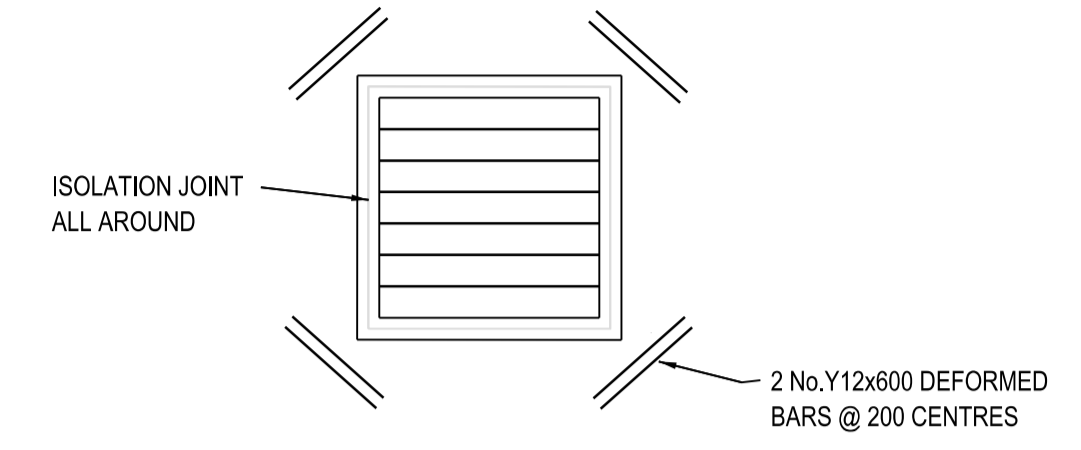
Checked
M. TOOMER-SMITH
Date
15/08/22

REDSTONE ESTATE
STAGE 5B
INTERSECTION DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R09 Rev 0

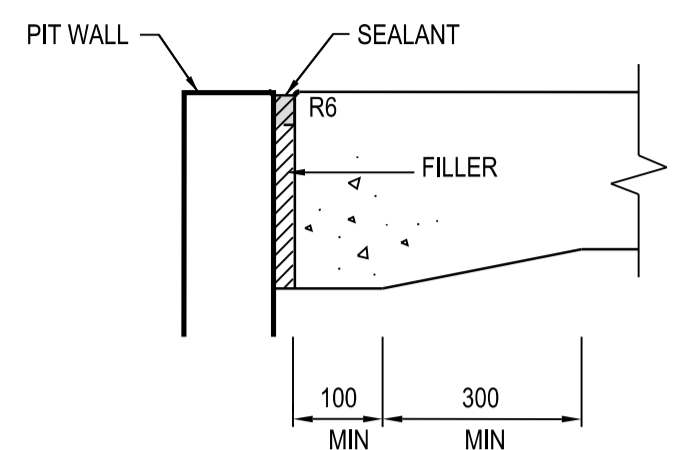


CONCRETE JOINTING NOTES

1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 15m.
3. SOLATION JOINTS ARE TO BE PLACED AROUND PITS
4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH "CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997"



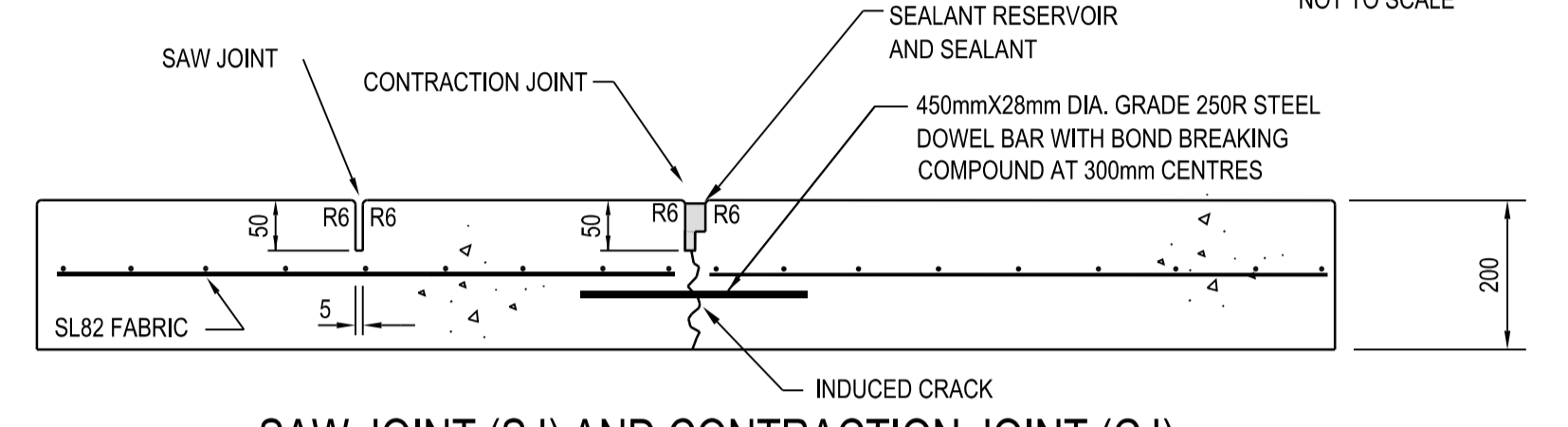
TYPICAL PIT JOINTING



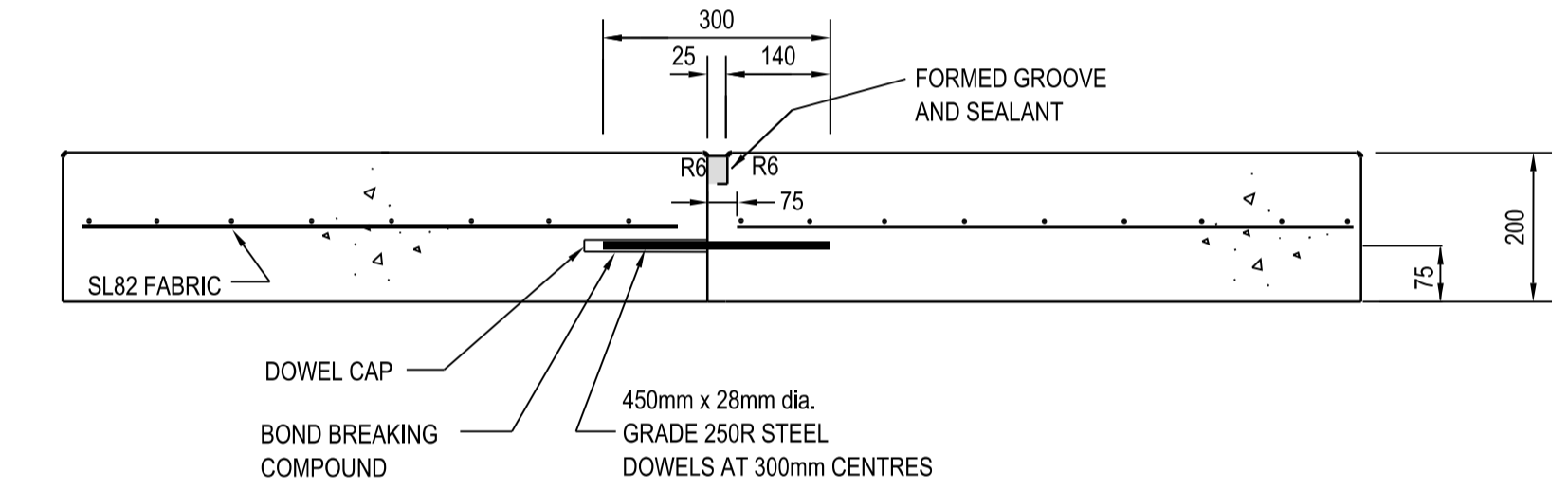
ISOLATION JOINT (IJ)

CONCRETE JOINTING DETAILS ISLAND INFILL

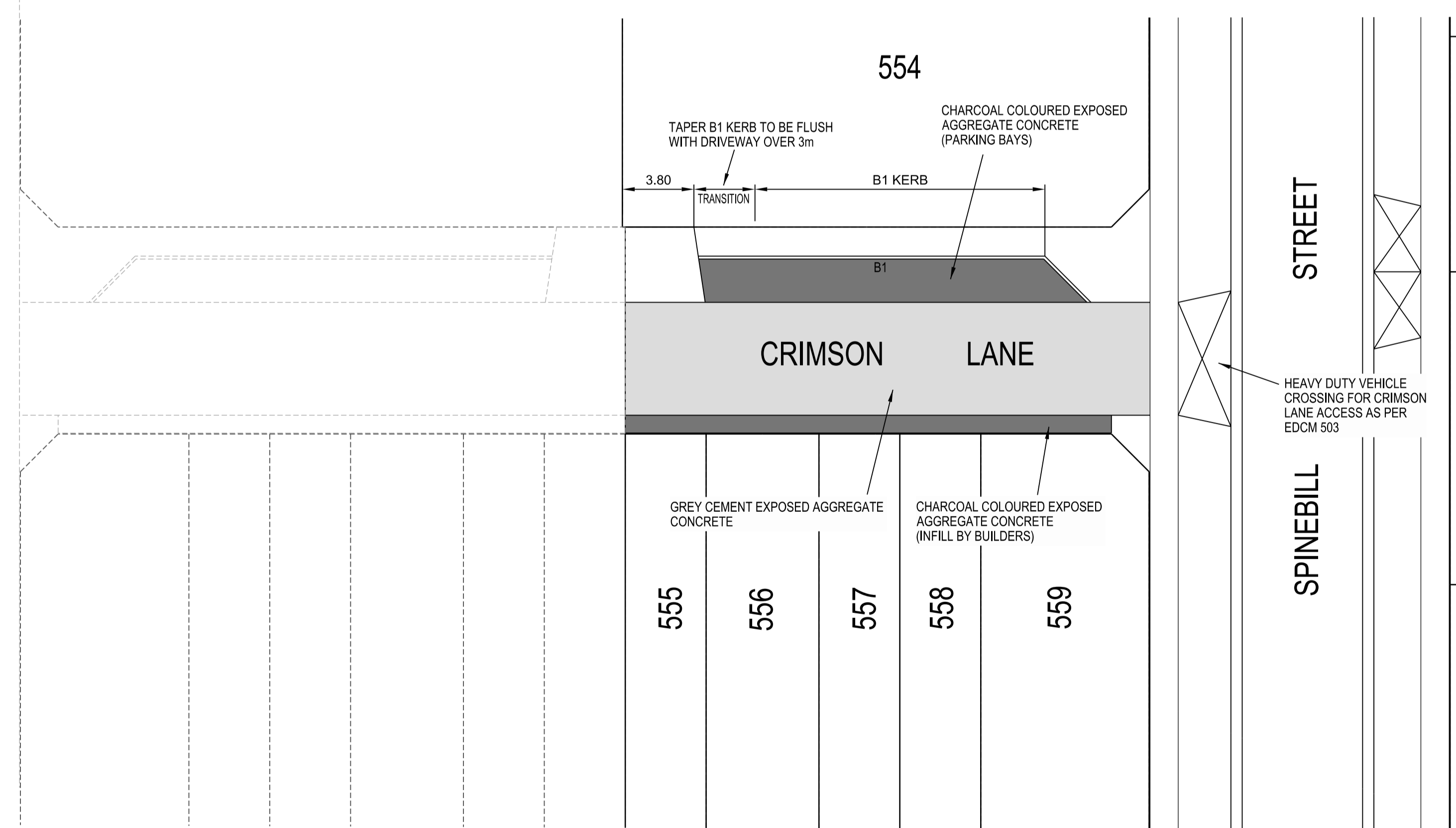
NOT TO SCALE



SAW JOINT (SJ) AND CONTRACTION JOINT (CJ)



**DOWELLED BUTT JOINT (DCJ)
TRANSVERSE CONSTRUCTION JOINT DETAIL**



FEATURE EXPOSED AGGREGATE PAVING
ALL WORKS GENERALLY IN ACCORDANCE WITH HUME SD307



0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23
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Scale H 1200, 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
M. TOOMER-SMITH

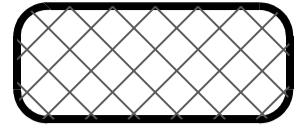
Authorised
M. TOOMER-SMITH

Date
15/08/22

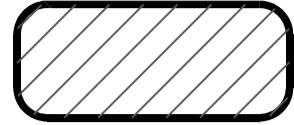
**REDSTONE ESTATE
STAGE 5B
CONCRETE JOINTING DETAILS**

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 309820R10 Rev 0



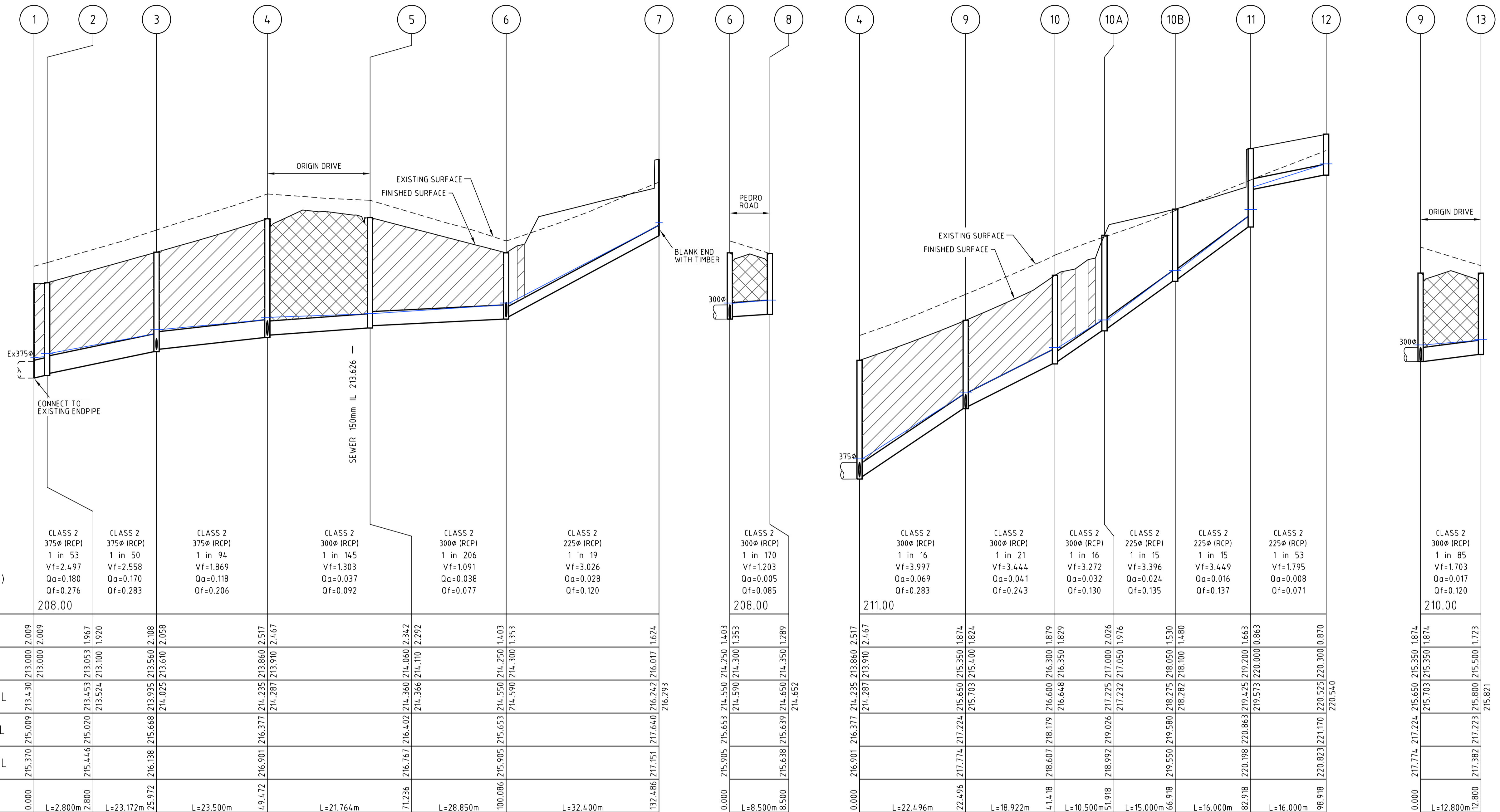
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

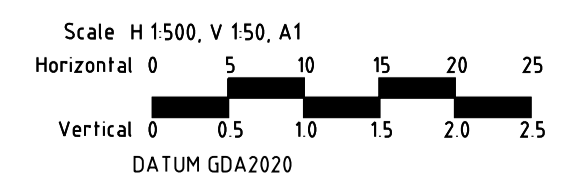
NOTE

- 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 MANUFACTURERS SPECIFICATION
 - b) DEFLECTION ACHIEVED WITHIN RRJ.



	1	2	3	4	5	6	7	8	9	10	10A	10B	11	12	13	
Pipe Diameter	375Φ (RCP)	375Φ (RCP)	375Φ (RCP)	300Φ (RCP)	300Φ (RCP)	300Φ (RCP)	225Φ (RCP)	300Φ (RCP)	300Φ (RCP)	300Φ (RCP)	300Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	300Φ (RCP)	
Pipe Grade	1 in 53	1 in 50	1 in 94	1 in 145	1 in 206	1 in 19	1 in 19	1 in 170	1 in 16	1 in 21	1 in 16	1 in 15	1 in 15	1 in 15	1 in 85	
Vf (m/s)	2.497	2.558	1.869	1.303	1.091	3.026	1.091	1.203	3.997	3.444	3.272	3.396	3.449	1.795	1.703	
Q _{actual} (m ³ /s)	0.180	0.170	0.118	0.037	0.038	0.028	0.028	0.005	0.069	0.041	0.032	0.024	0.016	0.008	0.017	
Q _{full} (m ³ /s)	0.276	0.283	0.206	0.092	0.077	0.085	0.120	0.085	0.283	0.243	0.130	0.135	0.137	0.071	0.120	
DATUM R.L.	208.00															
DEPTH TO INVERT	2.009	2.009	2.009	2.517	2.467	2.342	1.403	1.353	2.517	2.467	2.026	1.976	1.530	1.480	1.663	0.870
DESIGN INVERT LEVEL	213.000	213.000	213.000	213.660	214.060	214.250	214.550	214.300	213.910	215.350	217.000	217.050	218.050	219.200	220.000	220.300
HYDRAULIC GRADE LEVEL	213.430	213.453	213.524	214.235	214.287	214.366	214.550	214.590	214.287	215.703	217.225	217.232	218.275	219.425	219.573	220.525
FINISHED SURFACE LEVEL	215.009	215.020	215.524	216.377	216.402	216.402	216.550	216.590	216.287	217.774	219.026	219.026	219.550	220.863	221.170	220.525
EXISTING SURFACE LEVEL	215.370	215.446	216.138	216.901	216.901	216.767	216.905	216.638	215.905	217.774	218.179	218.607	219.550	220.198	220.823	220.823
CHAINAGE	0.000	L=2.800m	L=23.172m	L=23.500m	L=21.764m	L=28.850m	L=32.400m	L=8.500m	L=8.500m	L=22.496m	L=18.922m	L=10.500m	L=15.000m	L=16.000m	L=16.000m	L=12.800m

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0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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villawood properties
 Communities Designed for Living

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REDSTONE ESTATE STAGE 5B
DRAINAGE LONG SECTION
SHEET 1 OF 3
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

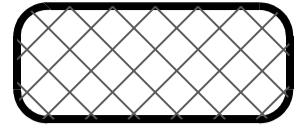
Designed
R. WEINBER

Checked
M. TOOMER-SMITH

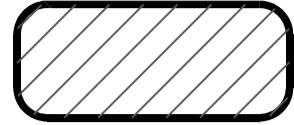
Authorised
M. TOOMER-SMITH

Date
15/08/22

AS CONSTRUCTED Drg No **309820R11** Rev **0**



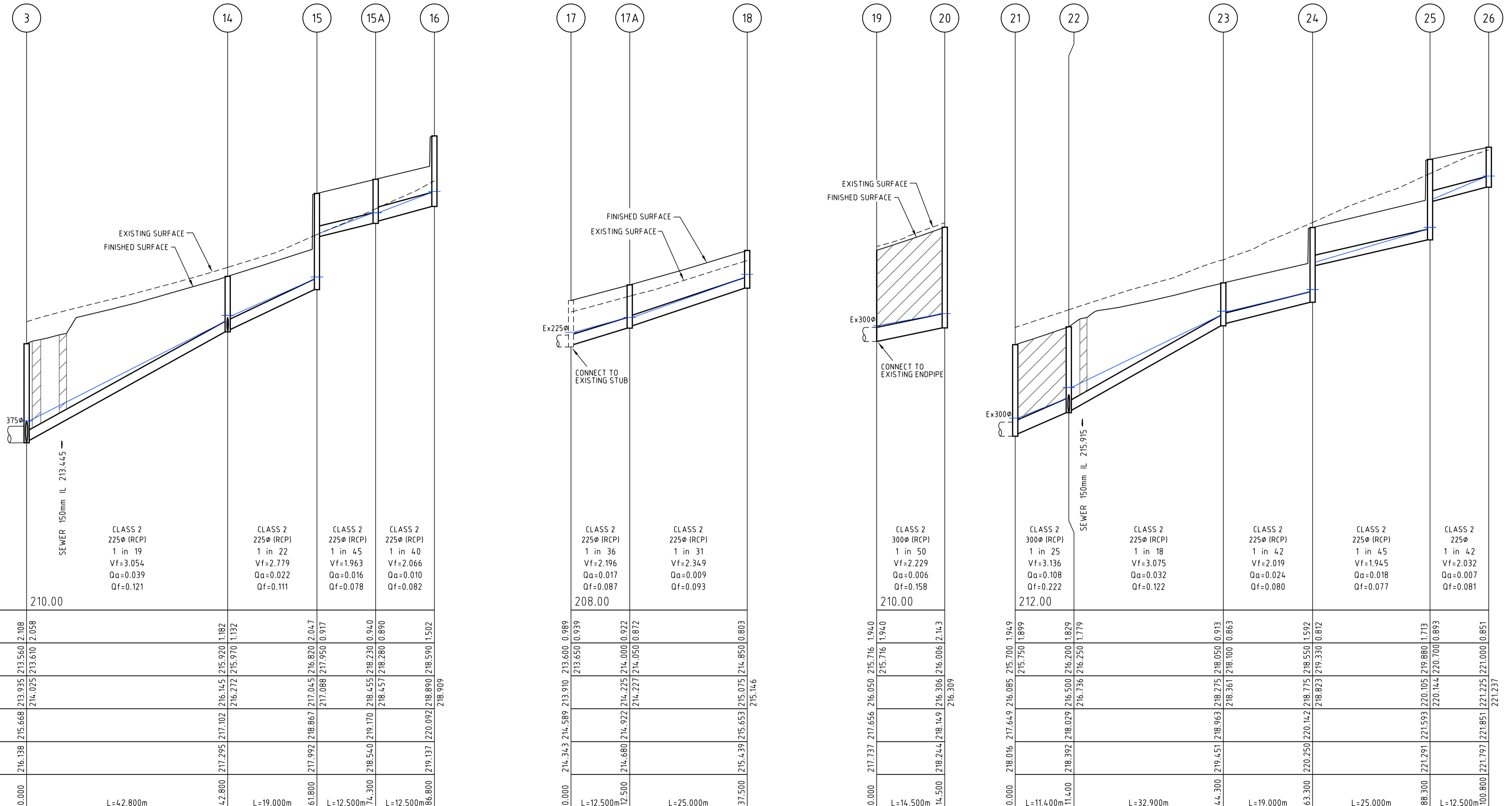
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

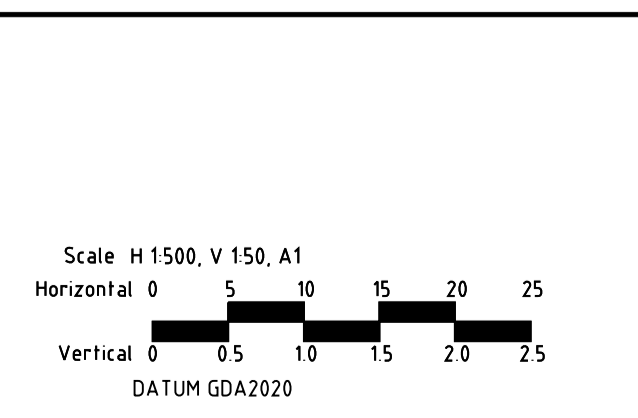
NOTE

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 - b) DEFLECTION ACHIEVED WITHIN RR.



Station	3	14	15	15A	16	17	17A	18	19	20	21	22	23	24	25	26
Pipe Diameter	375Φ	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	300Φ (RCP)	300Φ (RCP)	300Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)	225Φ (RCP)
Pipe Grade	1 in 19	1 in 19	1 in 22	1 in 45	1 in 40	1 in 36	1 in 31	1 in 18	1 in 50	1 in 25	1 in 18	1 in 45	1 in 42	1 in 45	1 in 42	1 in 42
Vf (m/s)	3.054	3.054	2.779	1.963	2.066	2.196	2.349	3.075	3.229	3.136	3.075	2.019	1.945	1.945	2.032	2.032
Qactual (m3/s)	0.039	0.039	0.022	0.016	0.010	0.017	0.009	0.032	0.006	0.108	0.032	0.024	0.018	0.018	0.007	0.007
Qfull (m3/s)	0.121	0.111	0.078	0.082	0.087	0.087	0.093	0.158	0.222	0.222	0.122	0.080	0.077	0.077	0.081	0.081
DATUM R.L.	210.00					208.00			210.00		212.00					
DEPTH TO INVERT	216.688	213.560	216.145	216.820	216.890	213.600	214.000	216.050	217.737	216.085	215.700	216.250	218.275	218.050	220.105	219.880
DESIGN INVERT LEVEL	214.025	213.610	216.272	215.970	216.006	213.650	214.225	216.006	215.716	216.306	215.750	216.200	218.361	218.100	220.700	219.893
HYDRAULIC GRADE LEVEL																
FINISHED SURFACE LEVEL																
EXISTING SURFACE LEVEL																
CHAINAGE	0.000	42.800	61.800	74.300	86.800	0.000	12.500	37.500	0.000	14.500	0.000	11.400	44.300	63.300	88.300	100.800
		L=42.800m	L=19.000m	L=12.500m	L=12.500m	L=12.500m	L=25.000m	L=14.500m	L=14.500m	L=11.400m	L=32.900m	L=19.000m	L=25.000m	L=12.500m		

Rev	Issue	Approved	Date
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	Amendments		



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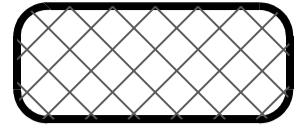
Redstone.
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Designed by **R. WEINBER**
 Authorised by **M. TOOMER-SMITH**

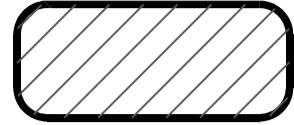
Checked by **M. TOOMER-SMITH**
 Date: **15/08/22**

REDSTONE ESTATE STAGE 5B
DRAINAGE LONG SECTION SHEET 2 OF 3
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

AS CONSTRUCTED Drg No **309820R12** Rev **0**



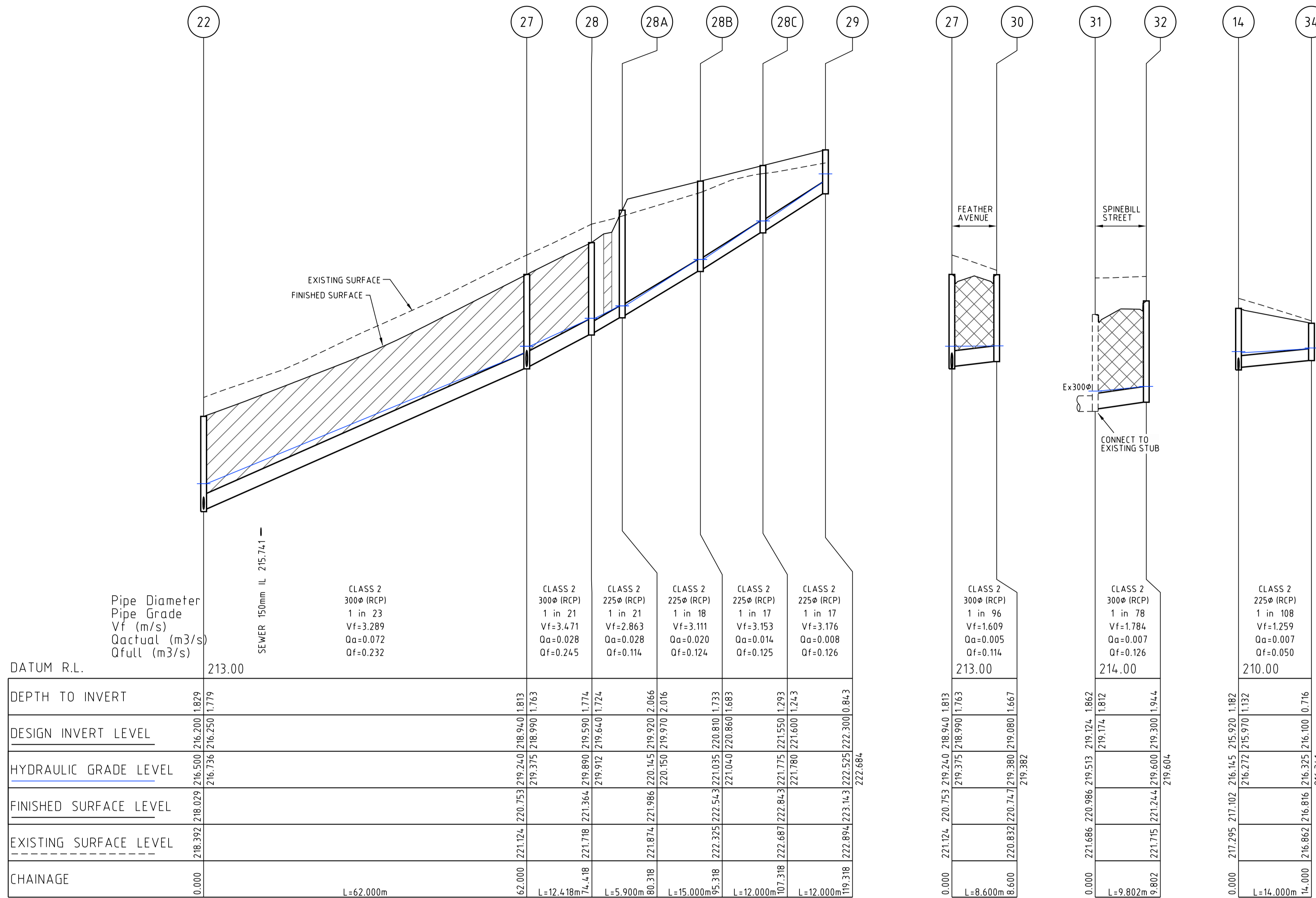
CLASS 2 CRUSHED ROCK



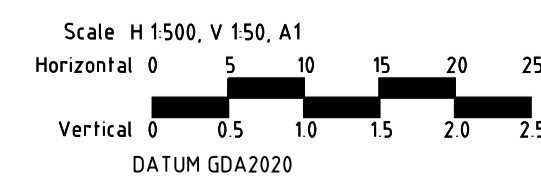
CLASS 3 CRUSHED ROCK

NOTE

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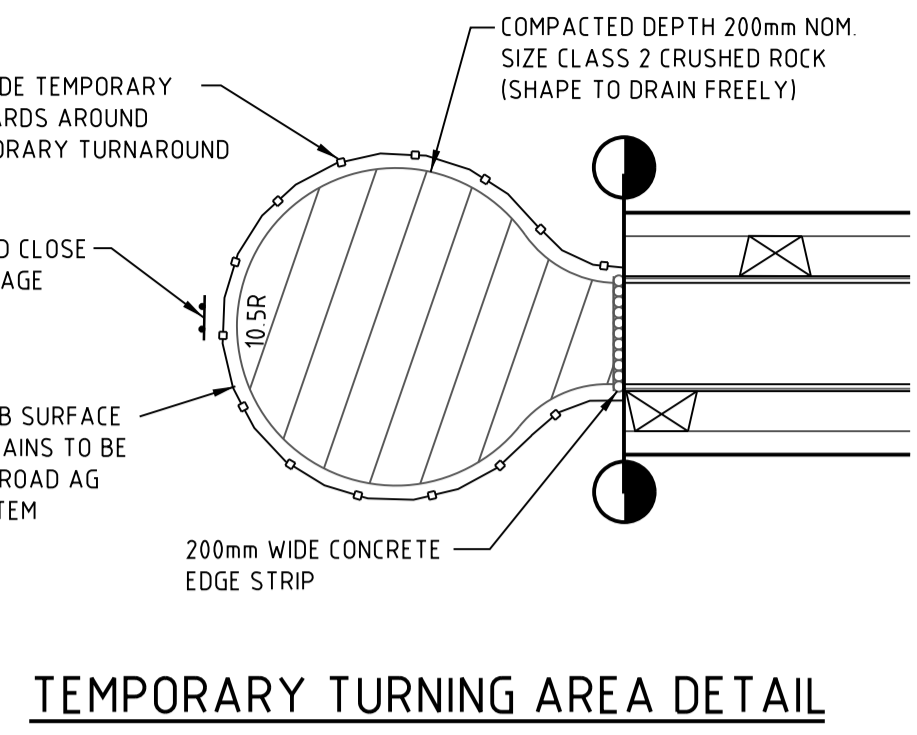
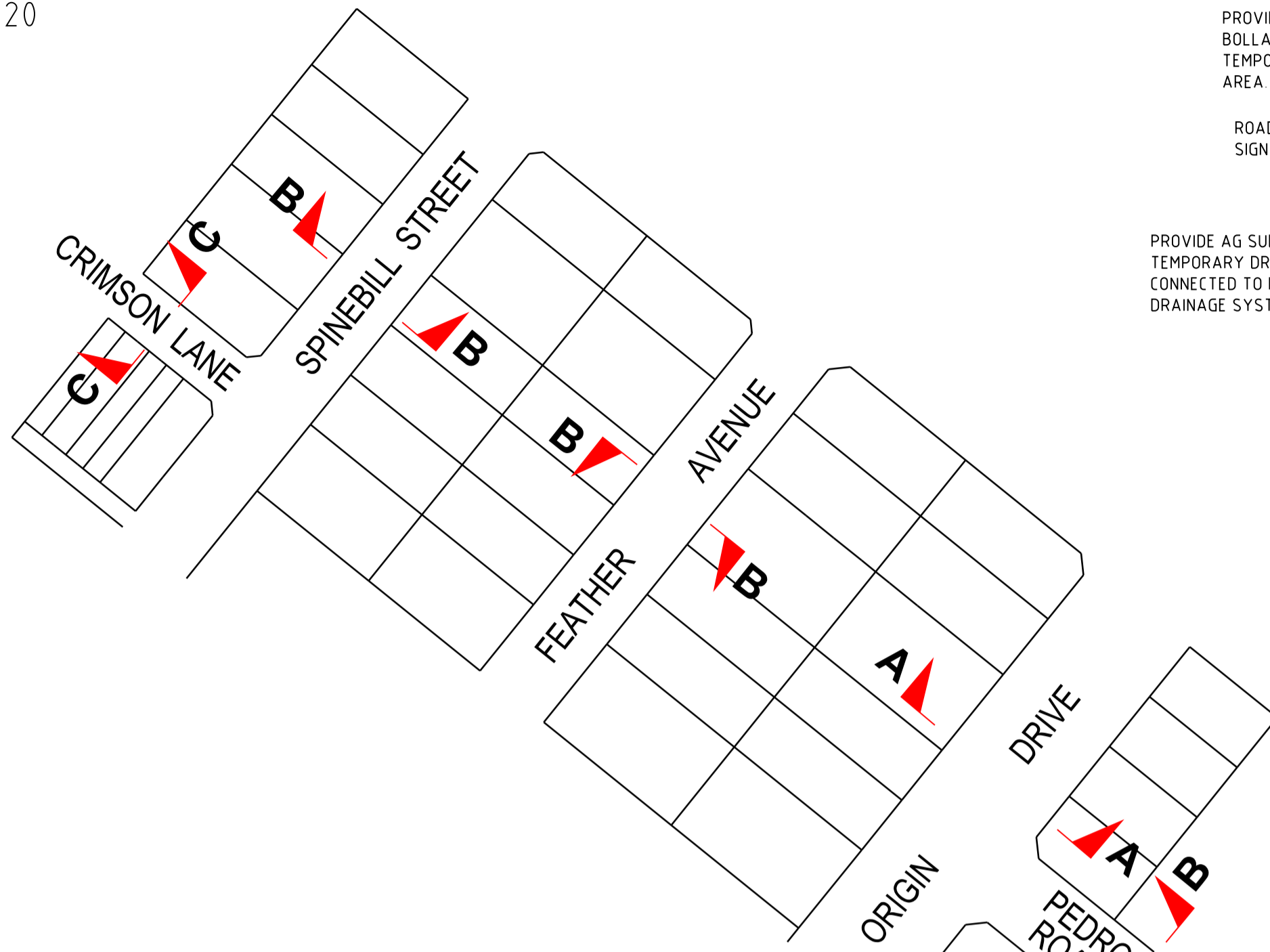
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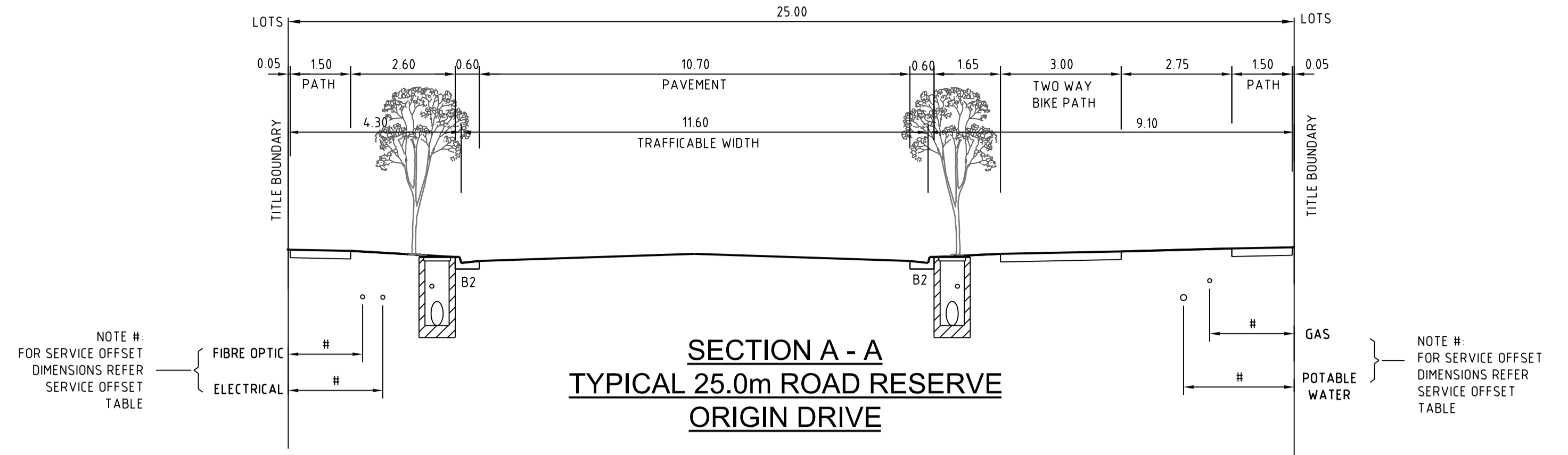
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Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

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Checked
M. TOOMER-SMITH
Date
15/08/22

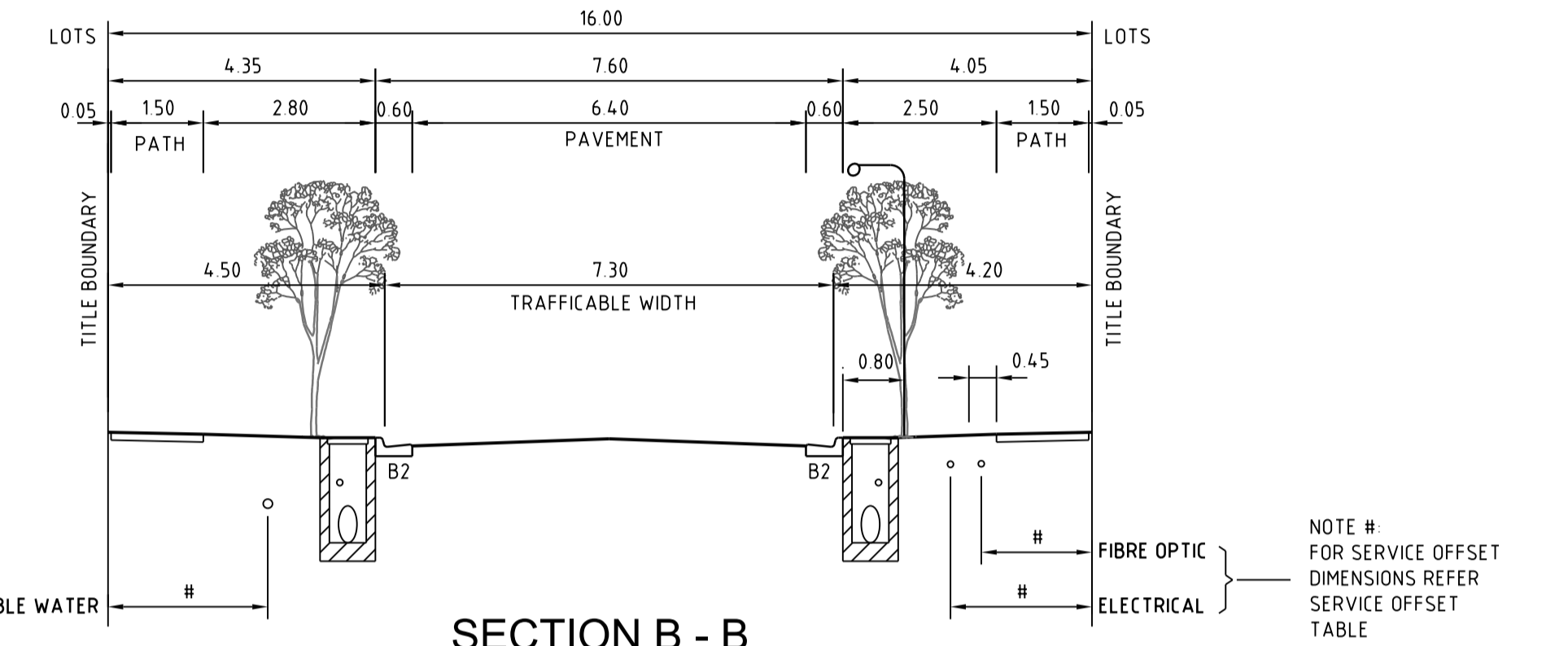
REDSTONE ESTATE
STAGE 5B
DRAINAGE LONG SECTION
SHEET 3 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No **309820R13** Rev **0**



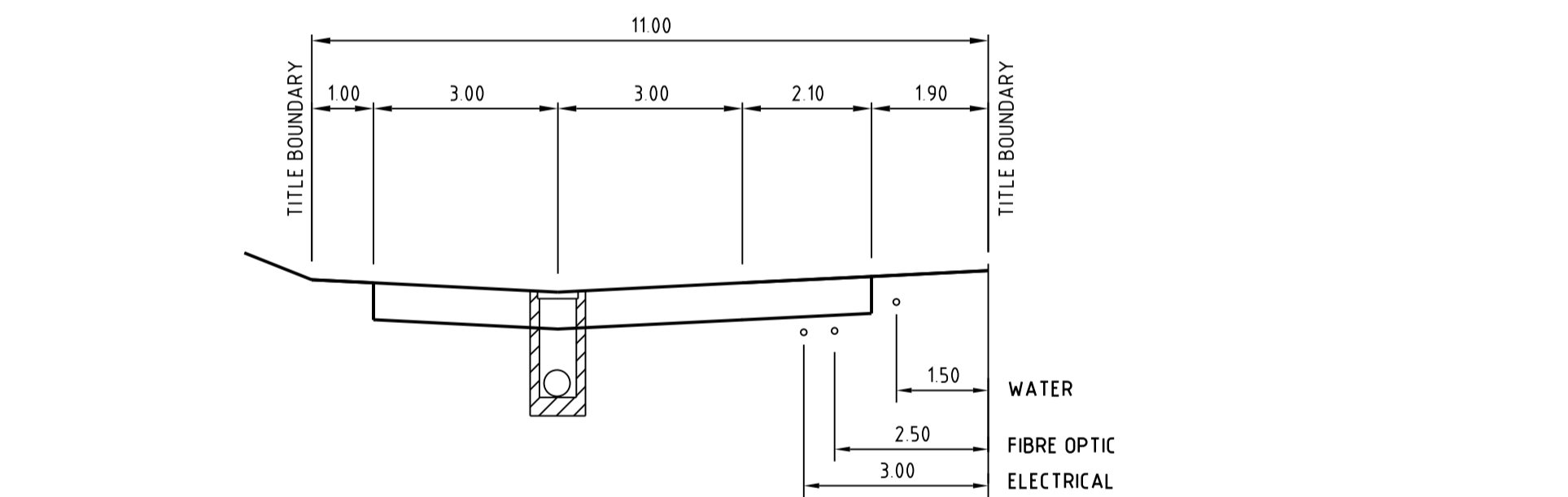
TEMPORARY TURNING AREA DETAIL



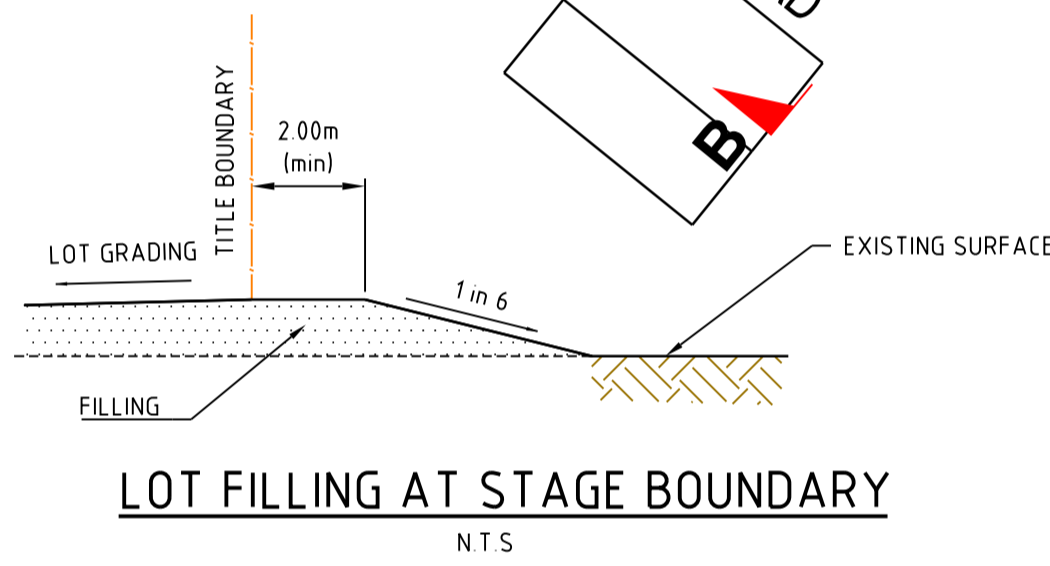
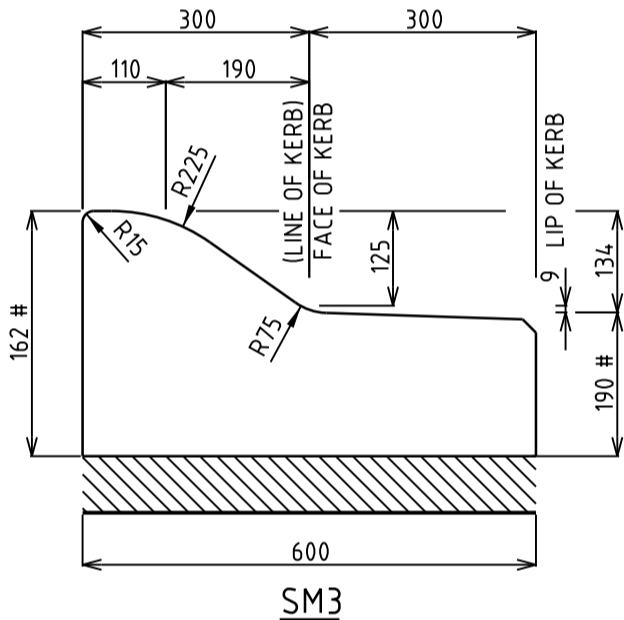
SECTION A - A
TYPICAL 25.0m ROAD RESERVE
ORIGIN DRIVE



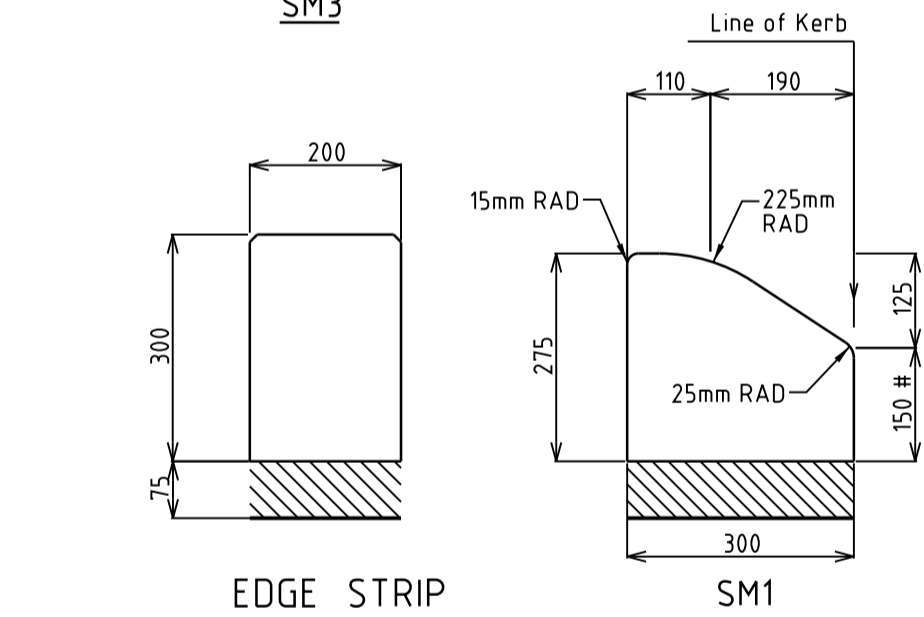
SECTION B - B
TYPICAL 16.00m ROAD RESERVE
SPINEBILL STREET, PEDRO ROAD



SECTION C - C
TYPICAL 11.00m ROAD RESERVE
CRIMSON LANE

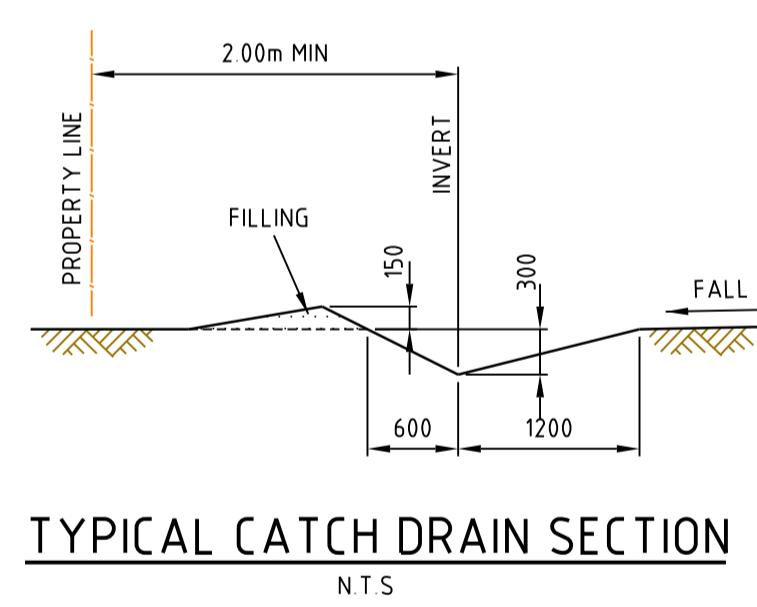


LOT FILLING AT STAGE BOUNDARY
N.T.S.

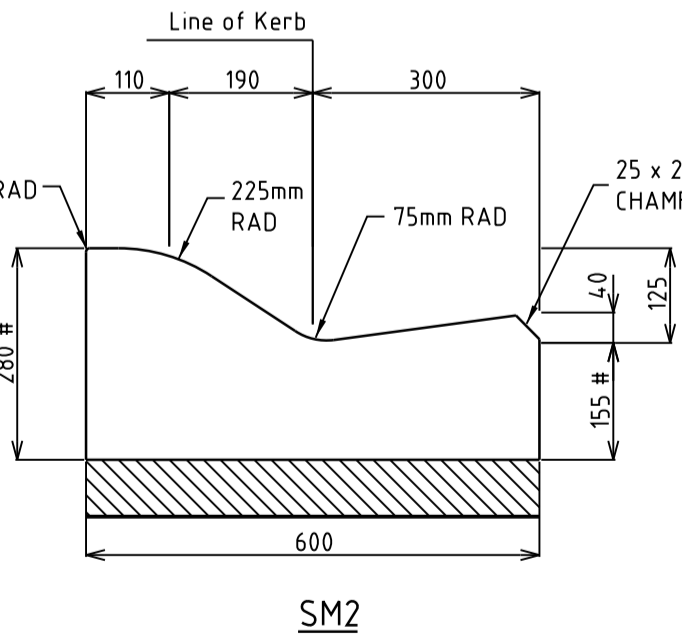


EDGE STRIP

SM1



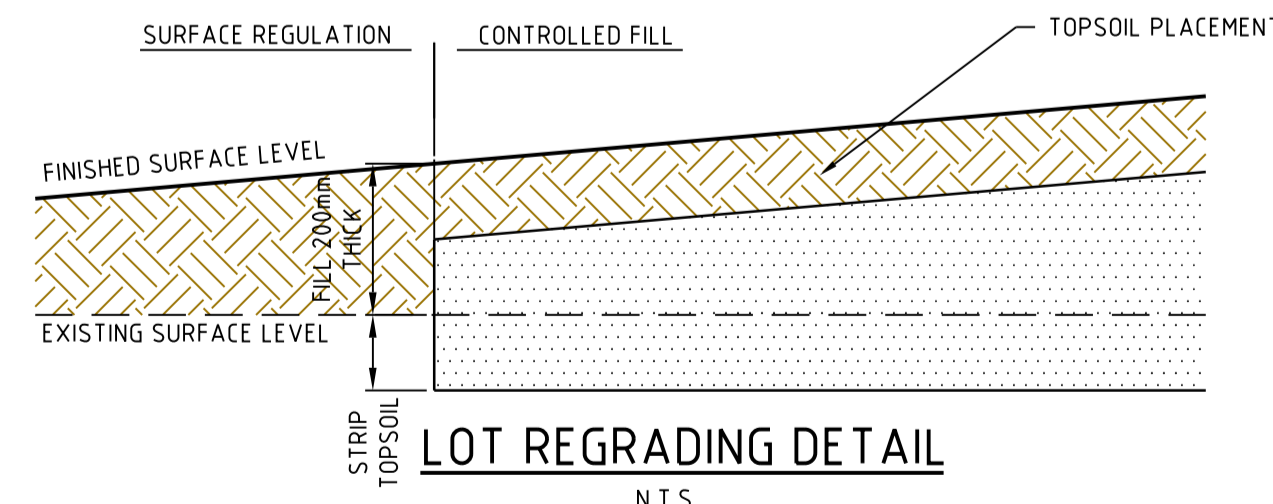
TYPICAL CATCH DRAIN SECTION
N.T.S.



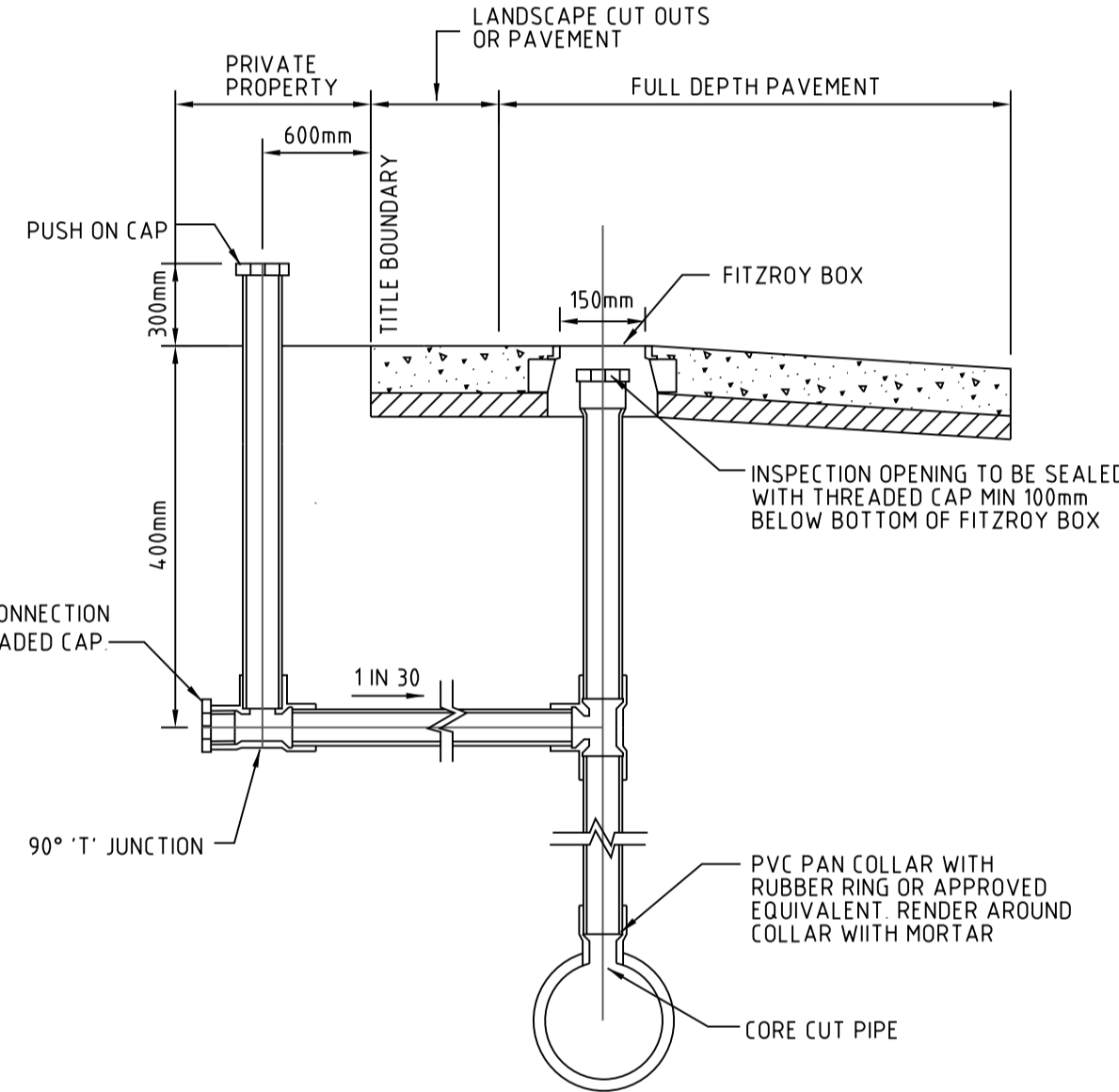
STANDARD KERB PROFILES
NOT TO SCALE

- 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 BE ADJUSTED TO ACCOMMODATE SAMI SEAL LAYER.

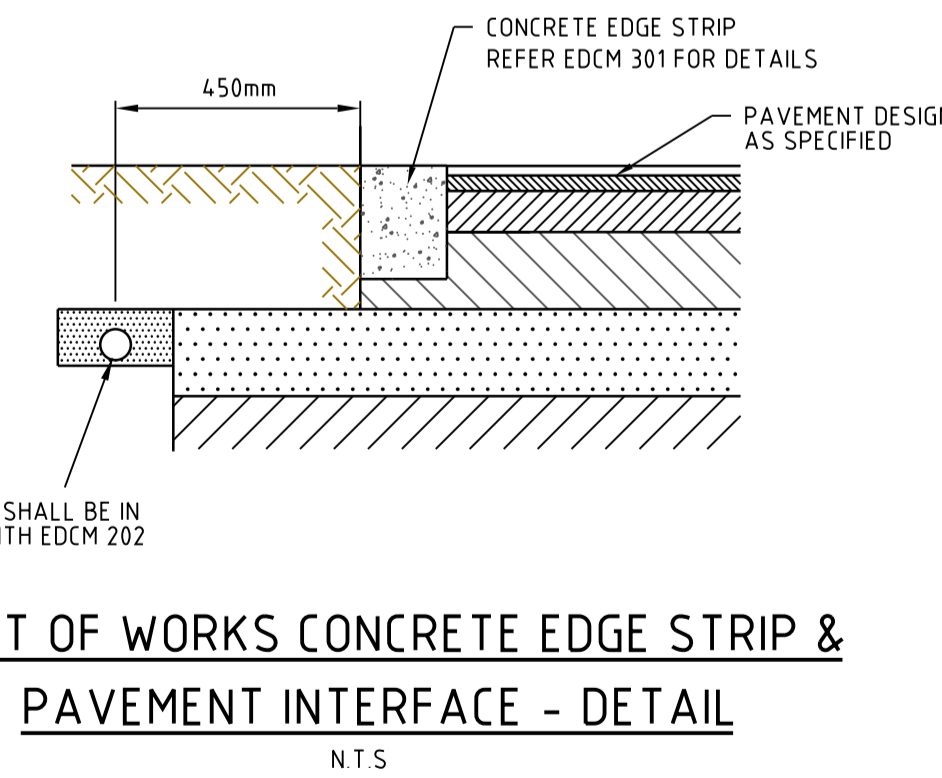
B2



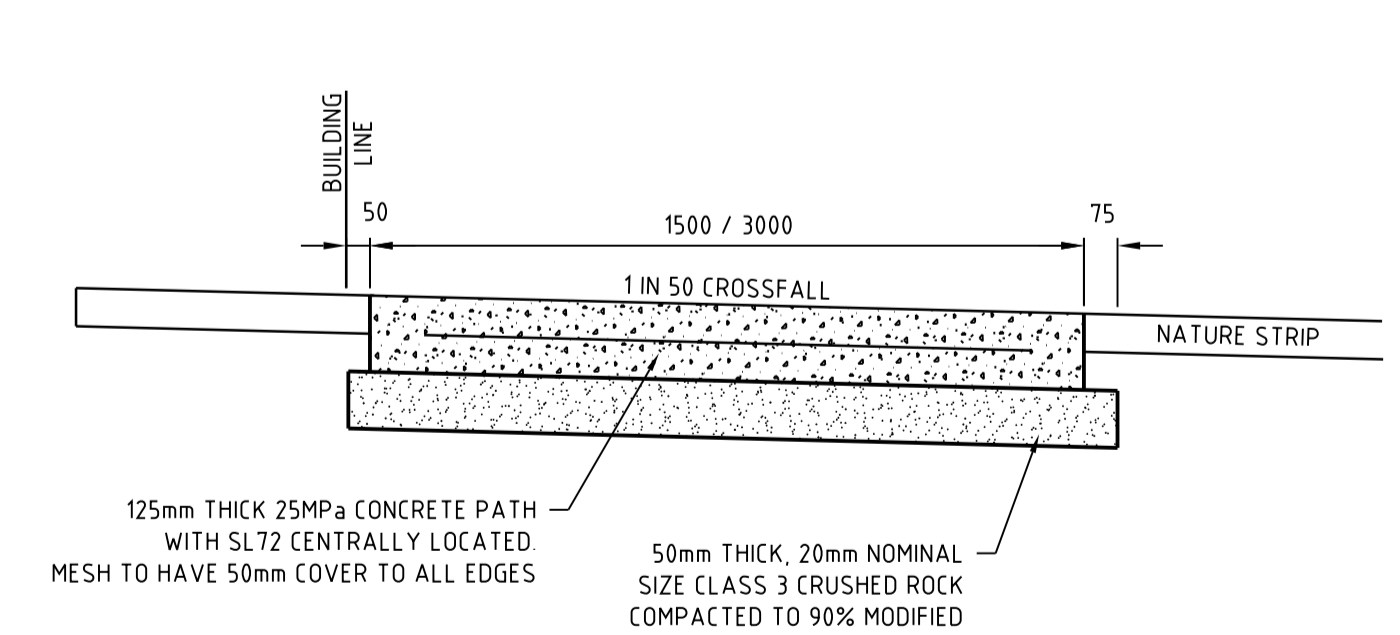
LOT REGRADING DETAIL
N.T.S.



PROPERTY INLET DETAIL
CRIMSON LANE



LIMIT OF WORKS CONCRETE EDGE STRIP &
PAVEMENT INTERFACE - DETAIL
N.T.S.



TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION
N.T.S.

Rev	Amendments	M.T.S	17/07/23
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		Approved	Date

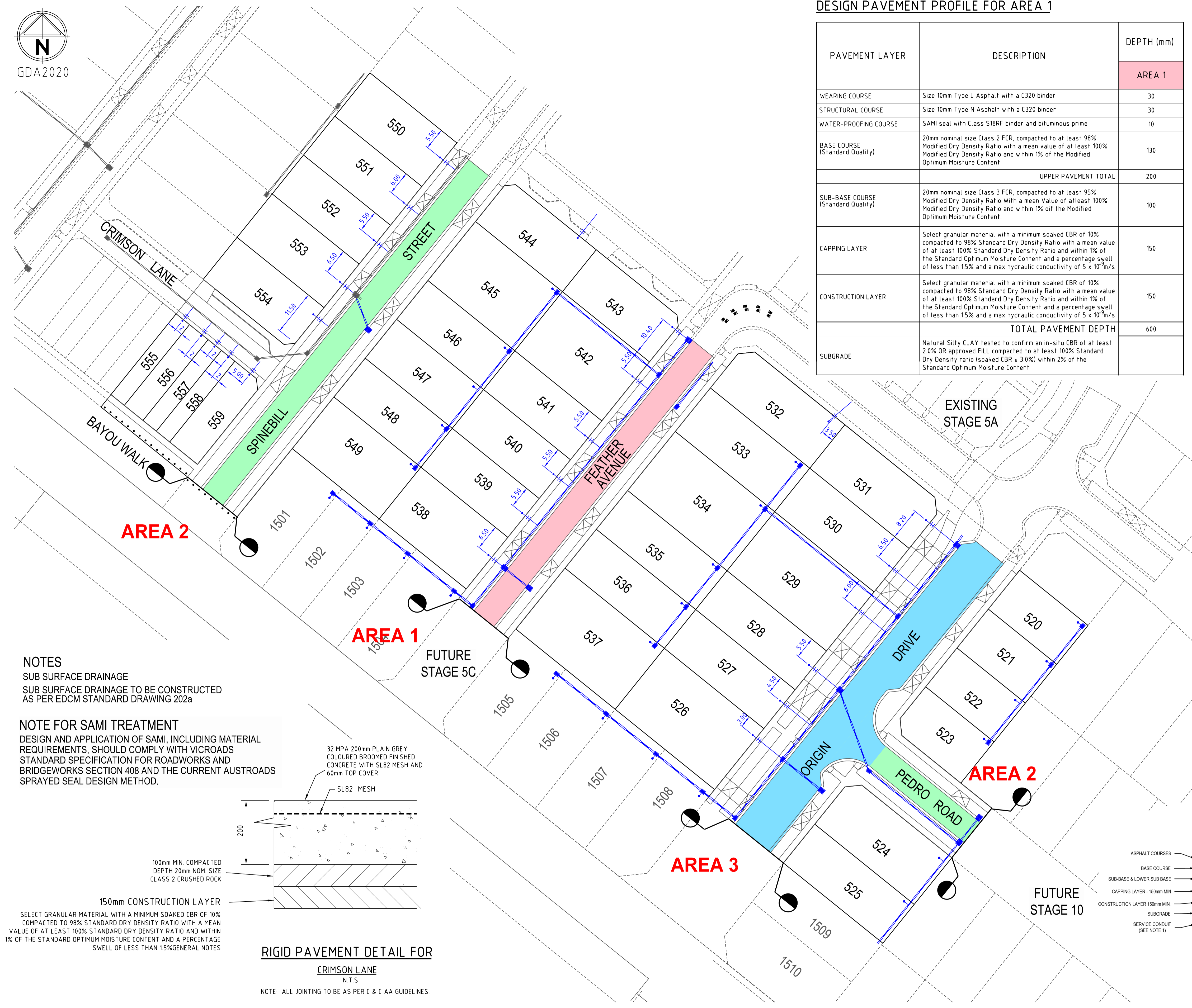
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Communities Designed for Living
Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

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Checked
M. TOOMER-SMITH
Date
15/08/22

REDSTONE ESTATE
STAGE 5B
TYPICAL CROSS SECTIONS
AND TYPICAL DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R14 Rev 0



DESIGN PAVEMENT PROFILE FOR AREA 1

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 1
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 100% 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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	150
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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	150
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 $\geq 3.0\%$) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 2

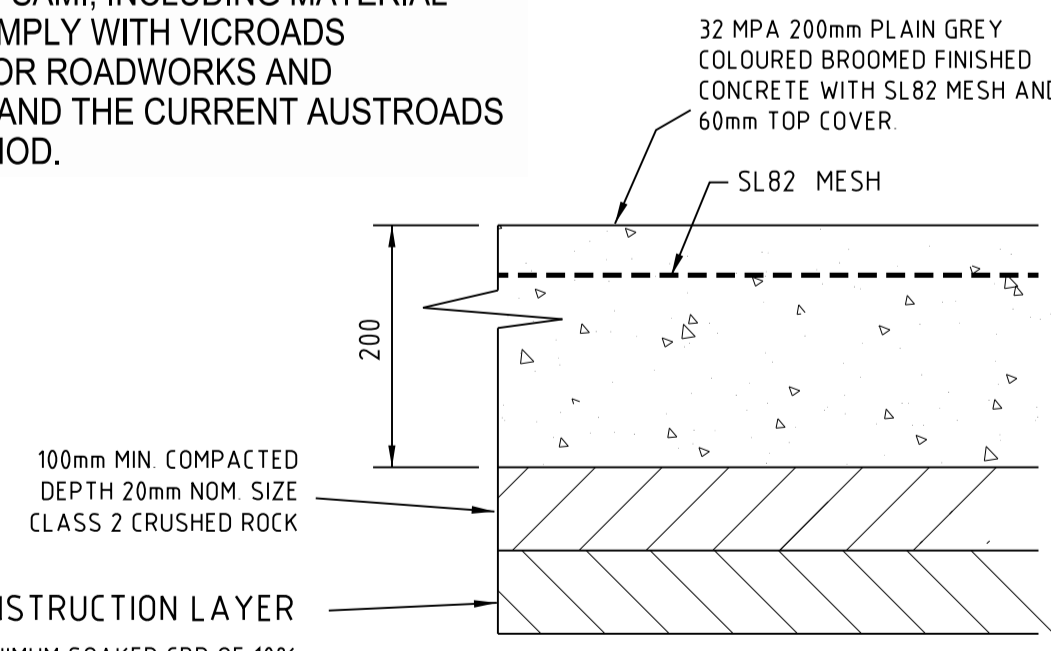
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 2
WEARING COURSE	Size 10mm Type L Asphalt with a C320 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C320 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (High Quality)	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio and within 1% of the modified Optimum Moisture Content	130
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 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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	150
TOTAL PAVEMENT DEPTH		650
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 $\geq 3.0\%$) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 3

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 3
WEARING COURSE	Size 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 and 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 and 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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	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 15% and a max hydraulic conductivity of $5 \times 10^{-9} \text{m/s}$	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 $\geq 3.0\%$) within 2% of the Standard Optimum Moisture Content	

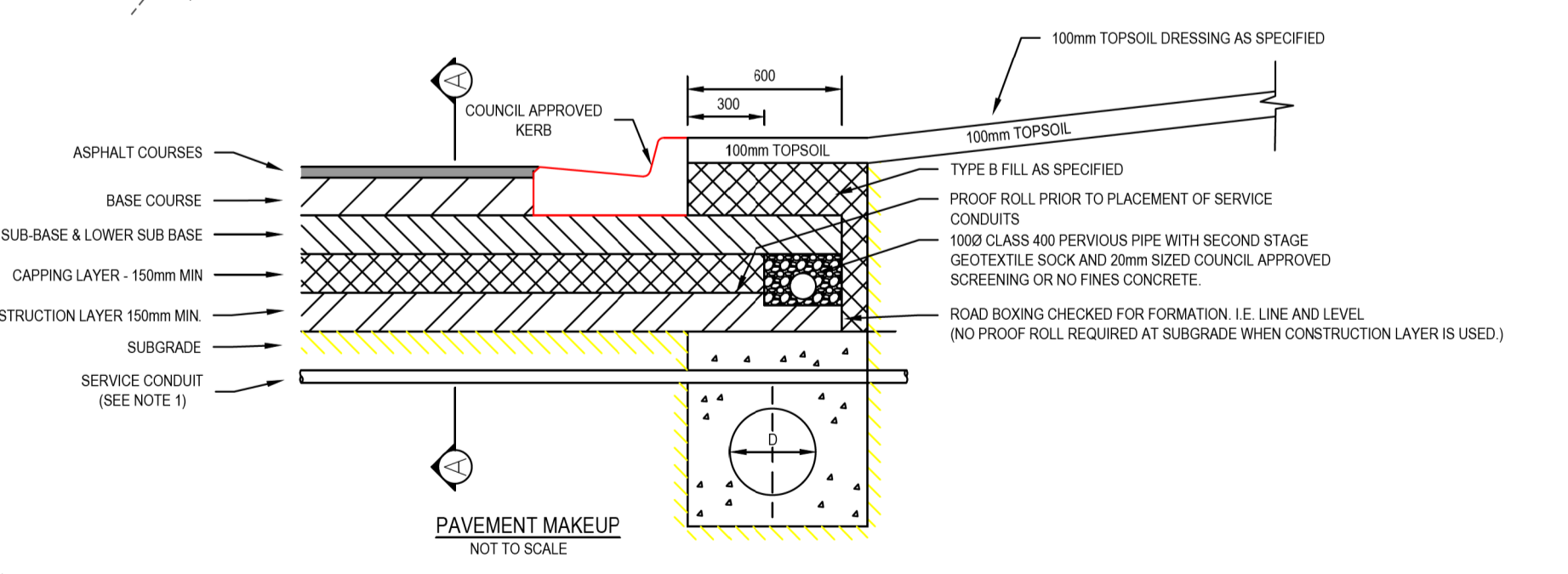
NOTES
 SUB SURFACE DRAINAGE
 SUB SURFACE DRAINAGE TO BE CONSTRUCTED AS PER EDCM STANDARD DRAWING 202a

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 AUSTRROADS SPRAYED SEAL DESIGN METHOD.



RIGID PAVEMENT DETAIL FOR CRIMSON LANE

N.T.S
 NOTE: ALL JOINTING TO BE AS PER C & CA GUIDELINES



Rev	Amendments	Approved	Date
1	PAVEMENT DETAILS UPDATED	M.T.S	22/08/23
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



AS/NZS 4580
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 Authorised
M. TOOMER-SMITH

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 Checked
M. TOOMER-SMITH
 Date
 15/08/22

REDSTONE ESTATE STAGE 5B PAVEMENT DETAILS
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
AS CONSTRUCTED Drg No **309820R15** Rev **1**



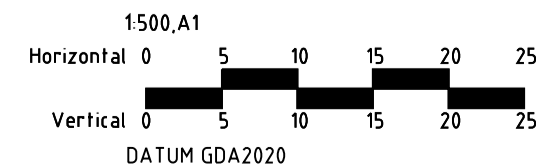
LEGEND

- 1 STREET NAME STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD408 & SD412, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- 2 ROAD CLOSED G9-20
- 3 D4-5
- 4 NO THROUGH ROAD
- TGSi KERB RAMP } HAZARD / DIRECTIONAL TGSiS SHOW INDICATIVELY. FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 403. TGSiS SHALL CONFORM TO AS1428.4
- TGSi DIRECTIONAL
- 1-WAY RRPm (5m SPACING)

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

NOTIONAL CARPARKING SPACES

0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23
Rev	Amendments	Approved	Date



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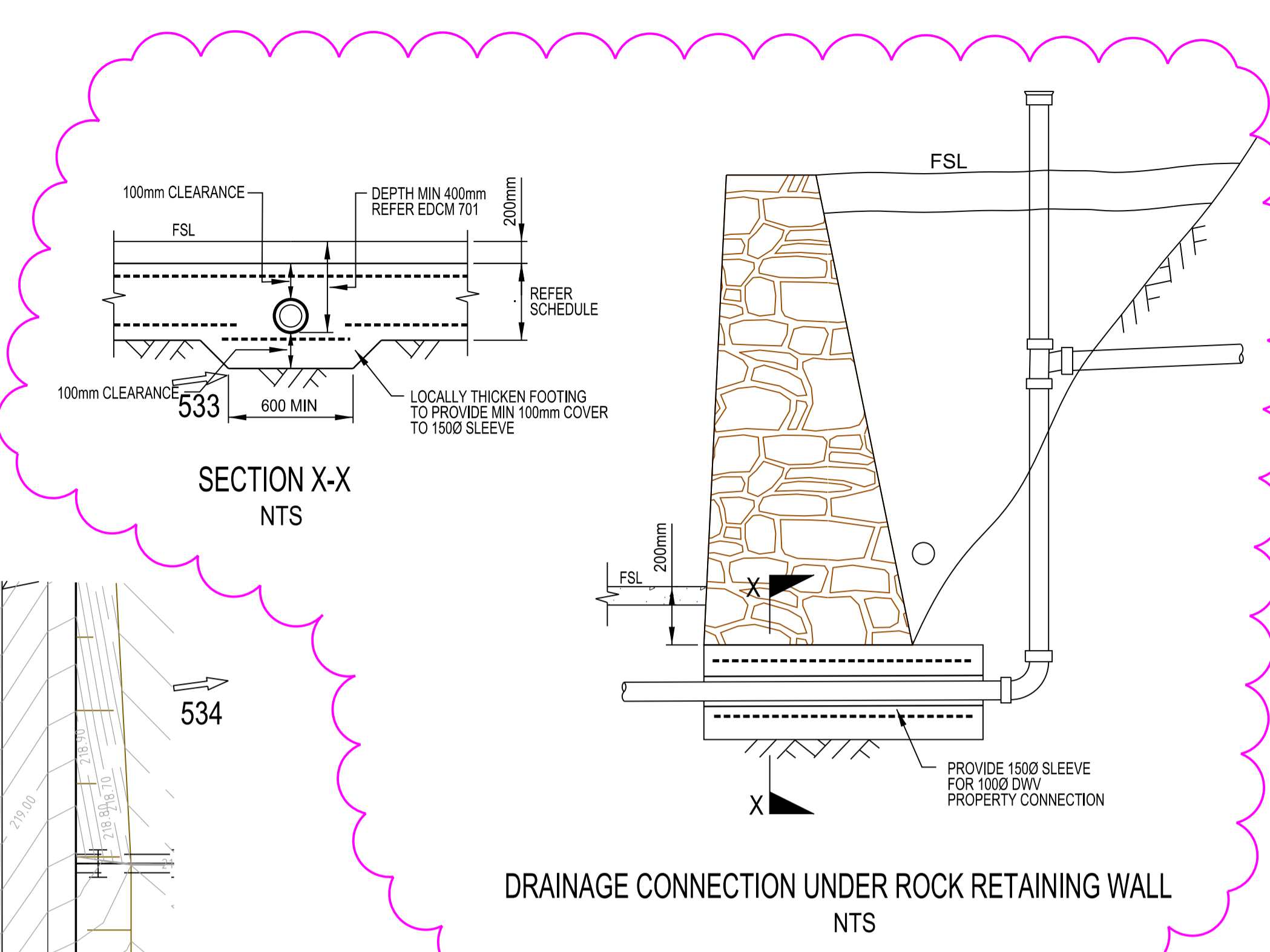
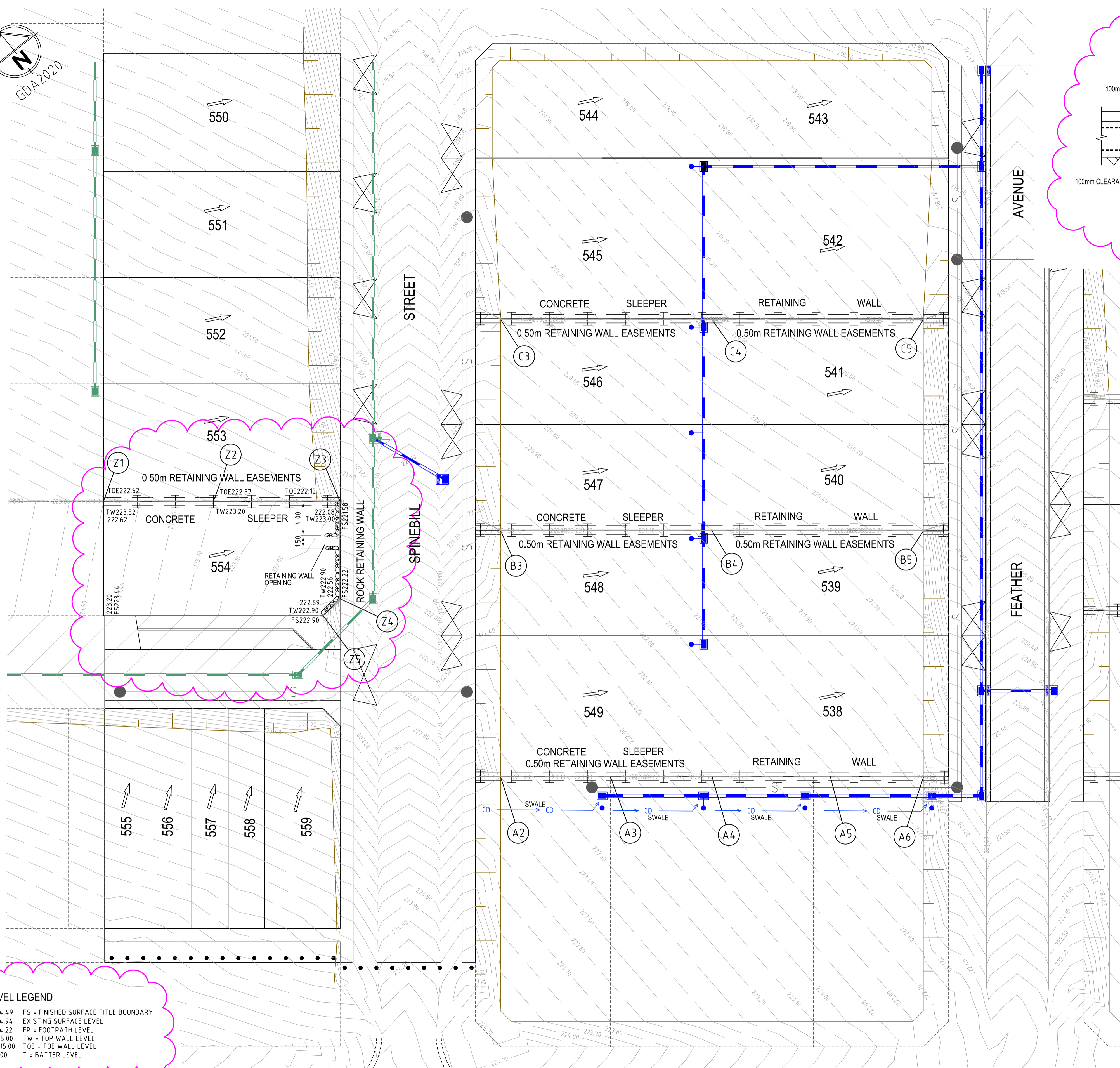


Checked
 M. TOOMER-SMITH
 Date
 15/08/22

**REDSTONE ESTATE
 STAGE 5B
 SIGNAGE, LINEMARKING & CARPARKING PLAN**

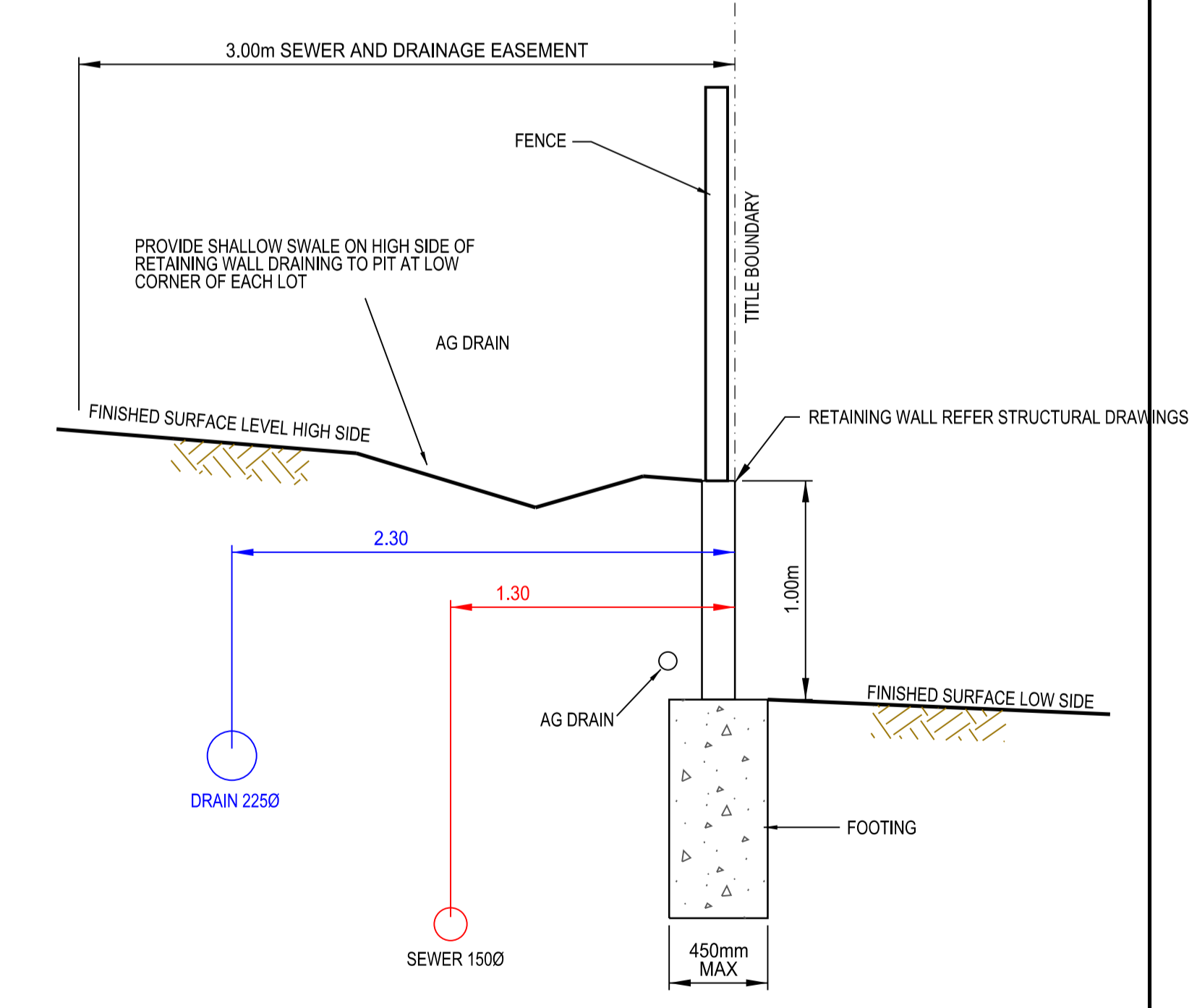
VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

AS CONSTRUCTED Drg No 309820R16 Rev 0



DRAINAGE CONNECTION UNDER ROCK RETAINING WALL NTS

- 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:
AG DRAINS BEHIND RETAINING WALLS TO DISCHARGE INTO PROPERTY DRAINAGE CONNECTIONS
- NOTE:
A BUILDING PERMIT IT TO BE PROVIDED AT COMPLIANCE FOR RETAINING WALLS OF 1M HEIGHT OR GREATER



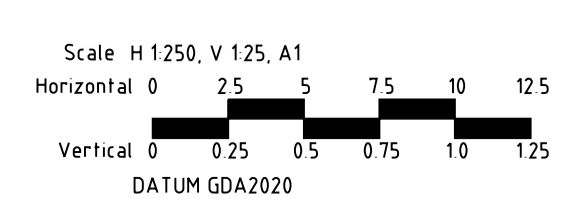
SLEEPER RETAINING WALL TYPICAL DETAIL NTS

- NOTES:
1. DRAIN AND SEWER DEPTH VARIES ACROSS SITE.
 2. DEPTH OF SERVICE MUST BE ABOVE ANGLE OF REPOSE OF RETAINING WALL FOOTING.
 3. MINIMUM COVER TO SERVICES IS 450mm.
 4. AG DRAINS TO CONNECT TO STORM WATER SYSTEM.

LEVEL LEGEND

FS214.49	FS = FINISHED SURFACE TITLE BOUNDARY
214.94	EXISTING SURFACE LEVEL
FP214.22	FP = FOOTPATH LEVEL
TW215.00	TW = TOP WALL LEVEL
TOE215.00	TOE = TOE WALL LEVEL
T215.00	T = BATTER LEVEL

Rev	Amendments	Approved	Date
1	ROCK RETAINING WALL ADDED LOT 554, DETAILS ADDED	M.T.S	13/03/24
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



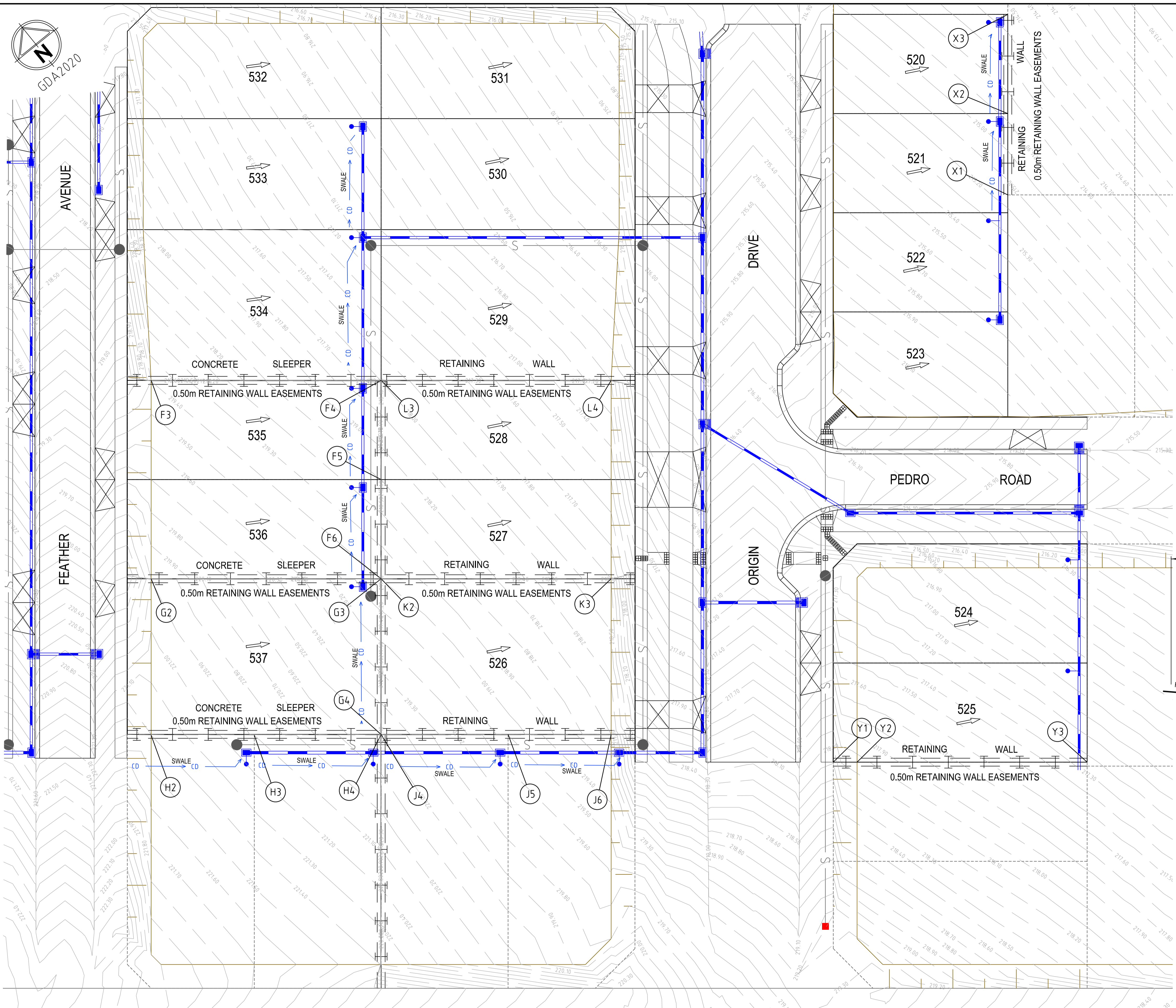
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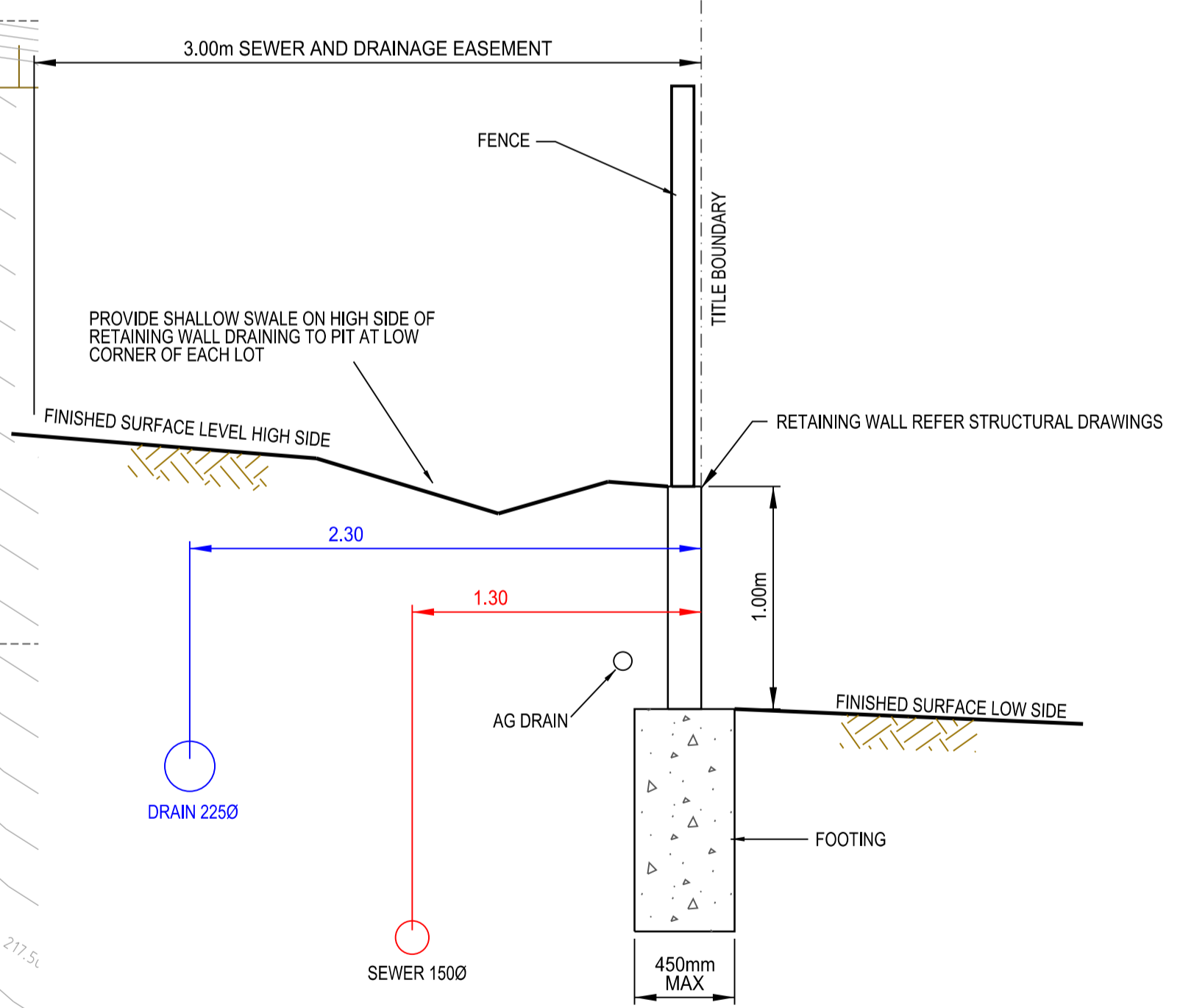
REDSTONE ESTATE STAGE 5B
RETAINING WALL DETAILS SHEET 1
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No 309820R17 Rev 1



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

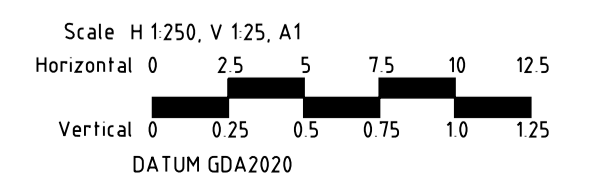
NOTE:
A BUILDING PERMIT IT TO BE PROVIDED AT COMPLIANCE FOR RETAINING WALLS OF 1M HEIGHT OR GREATER.



SLEEPER RETAINING WALL TYPICAL DETAIL NTS

NOTES:
1. DRAIN AND SEWER DEPTH VARIES ACROSS SITE.
2. DEPTH OF SERVICE MUST BE ABOVE ANGLE OF REPOSE OF RETAINING WALL FOOTING.
3. MINIMUM COVER TO SERVICES IS 450mm.
4. AG DRAINS TO CONNECT TO STORM WATER SYSTEM.

Rev	Amendments	Approved	Date
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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**REDSTONE ESTATE
STAGE 5B
RETAINING WALL DETAILS SHEET 2**

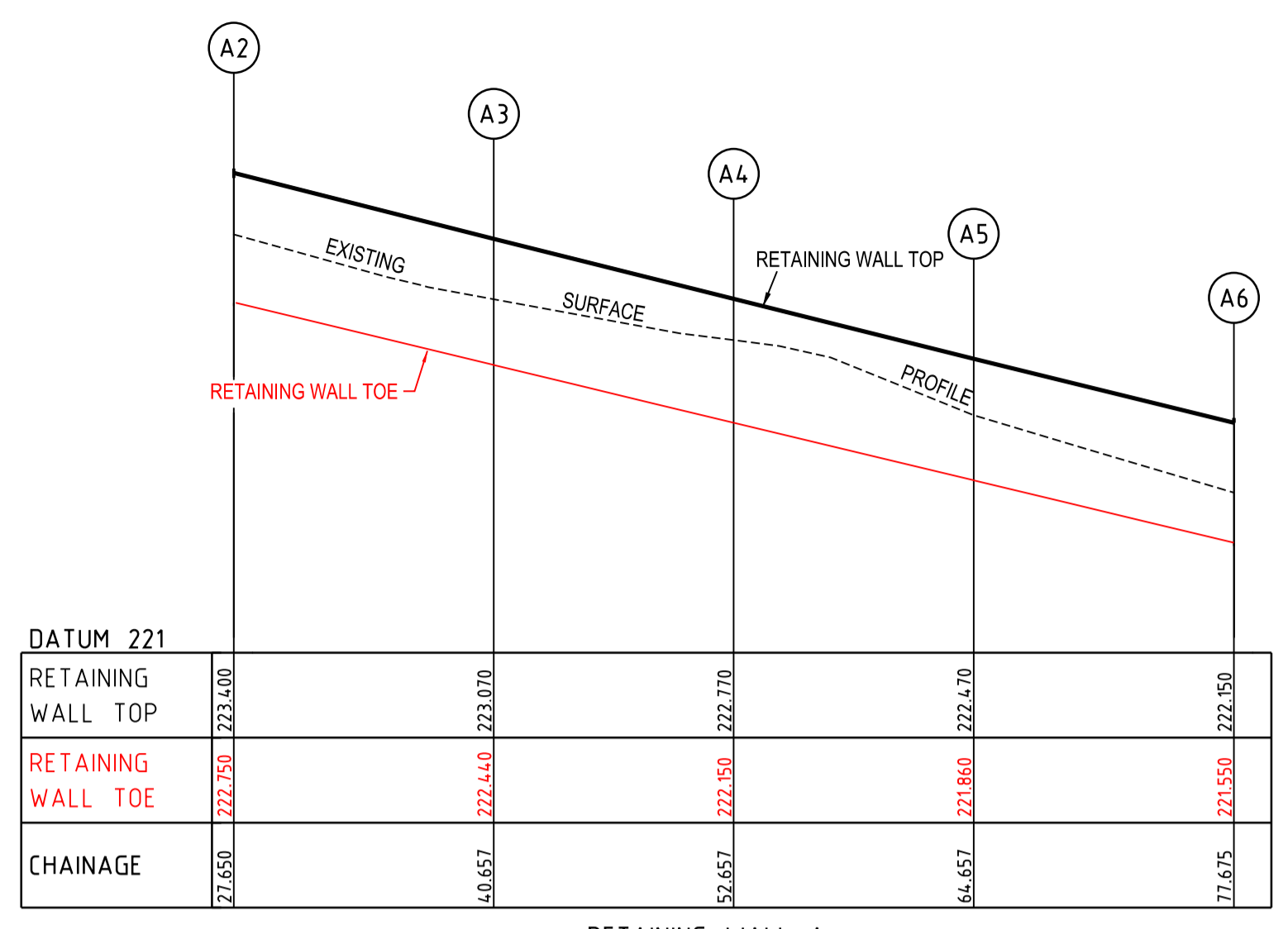
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **309820R18** Rev **0**

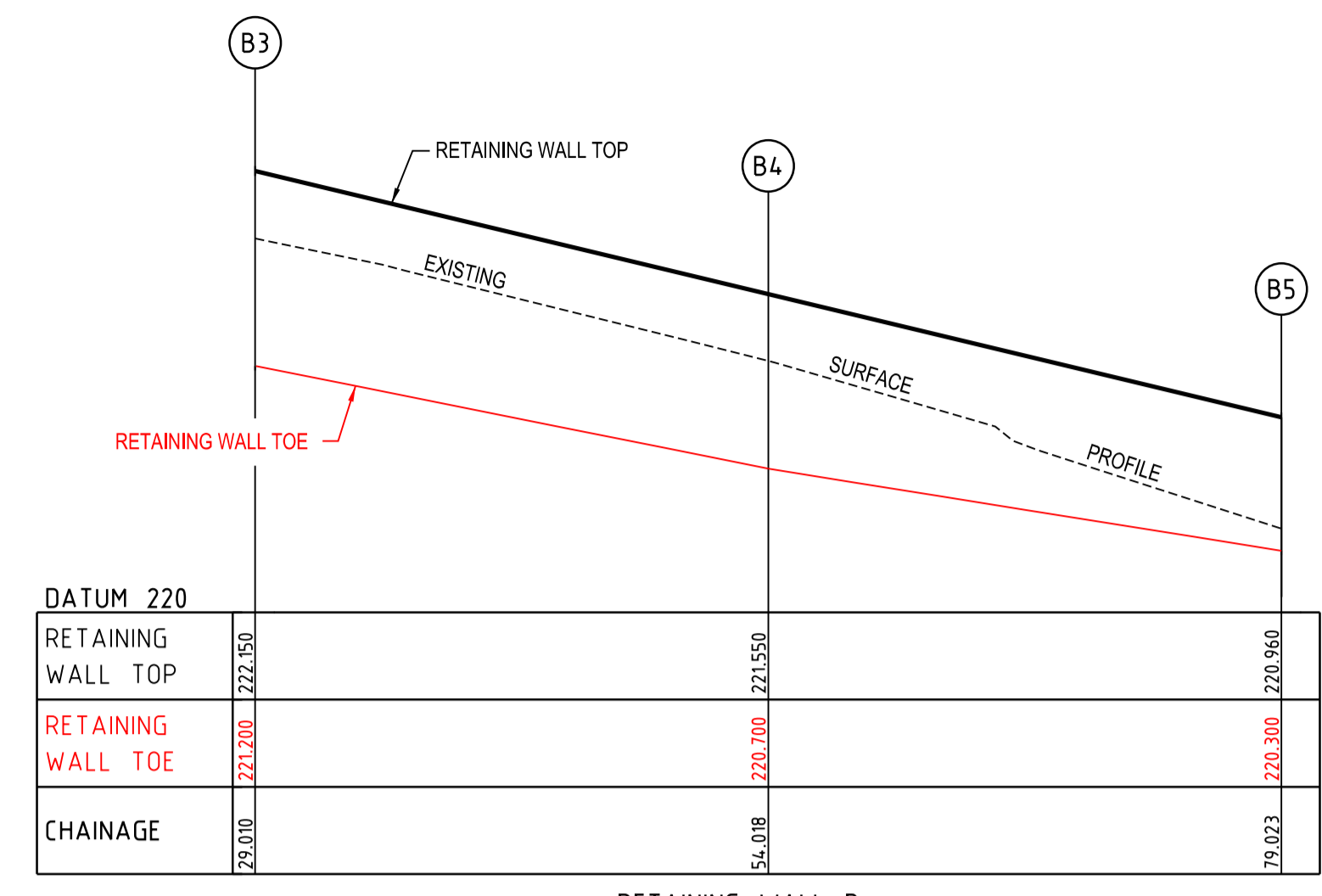
NOTE:
THE RETAINING WALL PLAN IS NOT PART OF THE SUBDIVISIONAL WORKS OR APPROVAL. IT IS SUBJECT TO SEPARATE APPROVAL. THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING DRAWINGS.

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

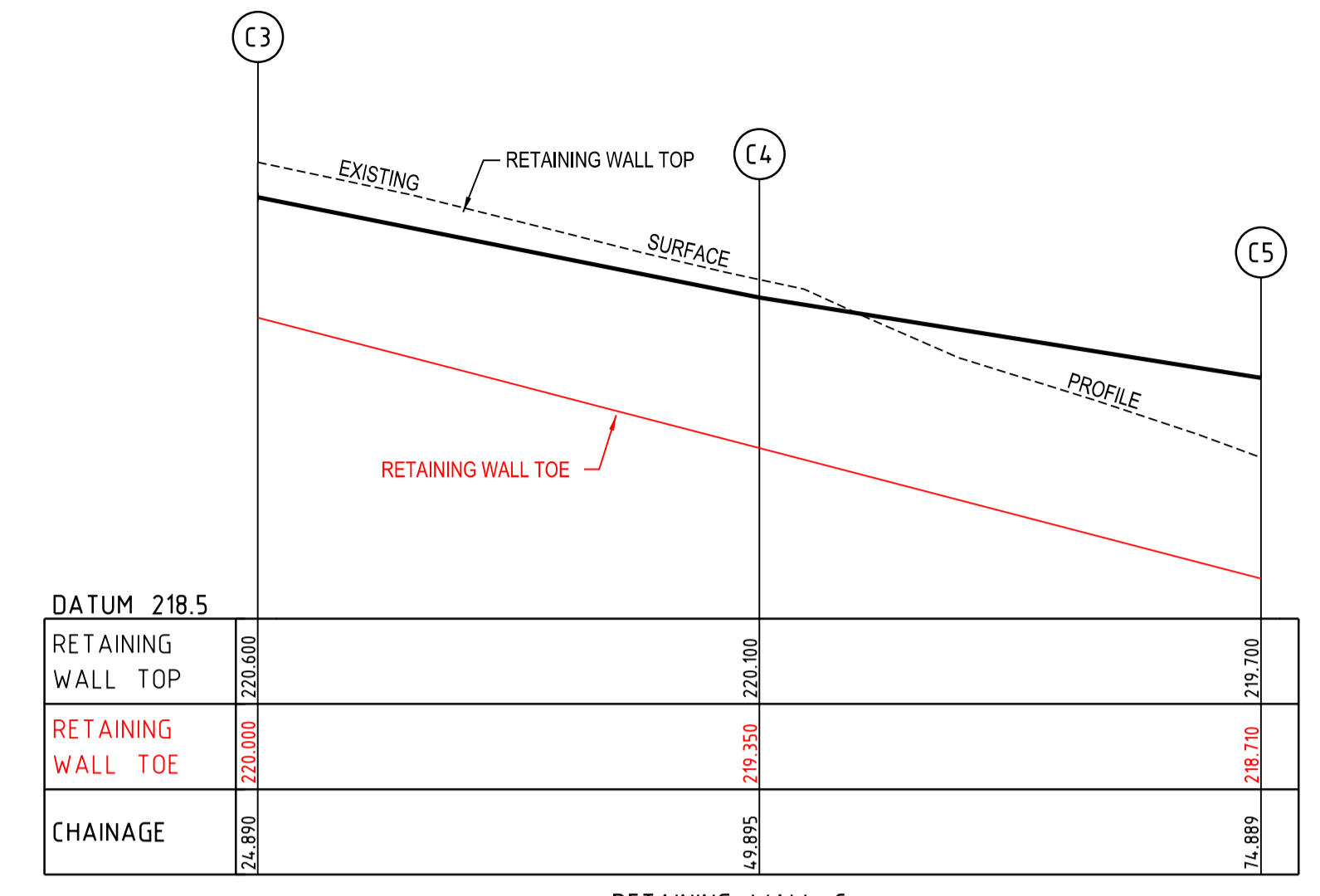
NOTE:
A BUILDING PERMIT IT TO BE PROVIDED AT COMPLIANCE FOR RETAINING WALLS OF 1M HEIGHT OR GREATER



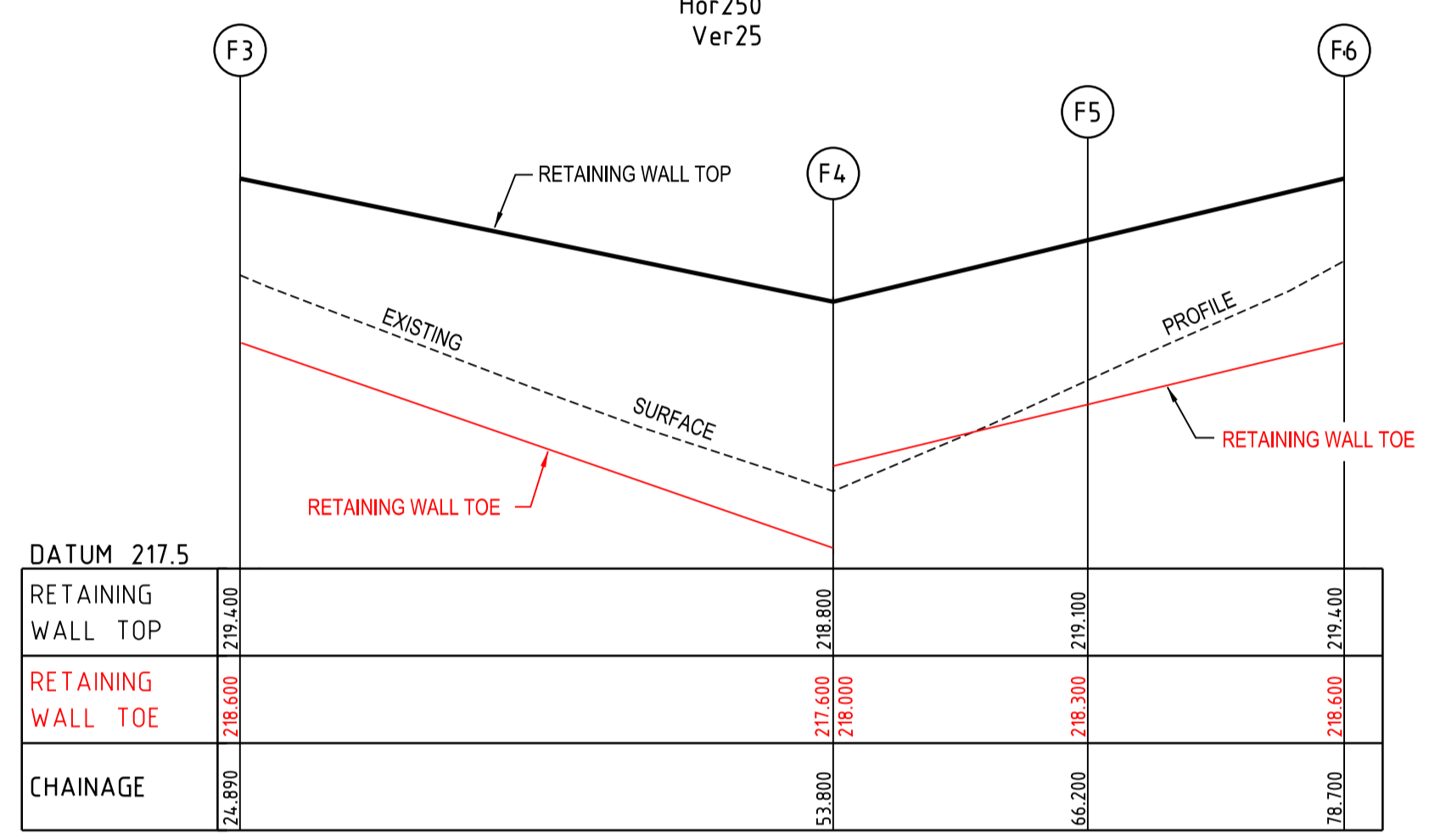
RETAINING WALL A
Hor250
Ver25



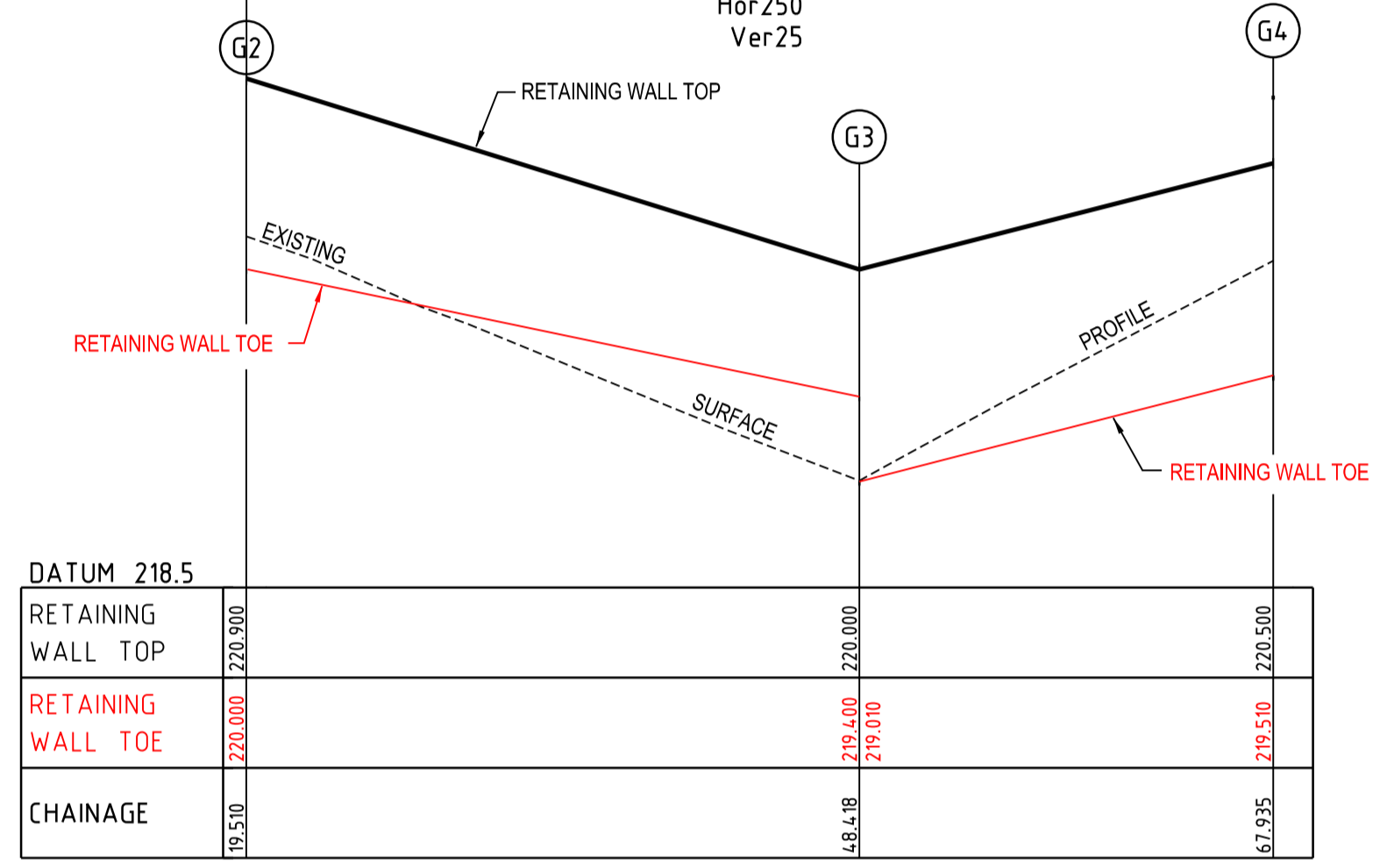
RETAINING WALL B
Hor250
Ver25



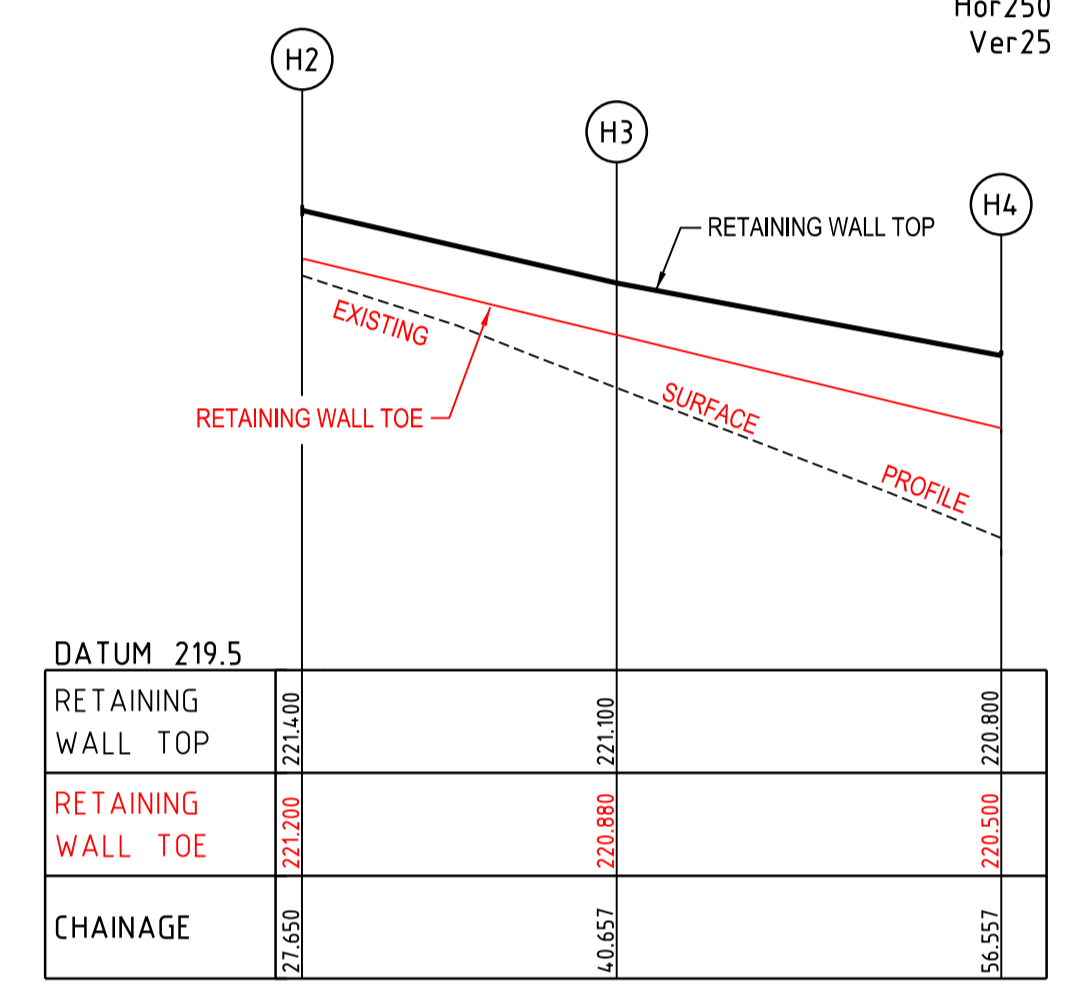
RETAINING WALL C
Hor250
Ver25



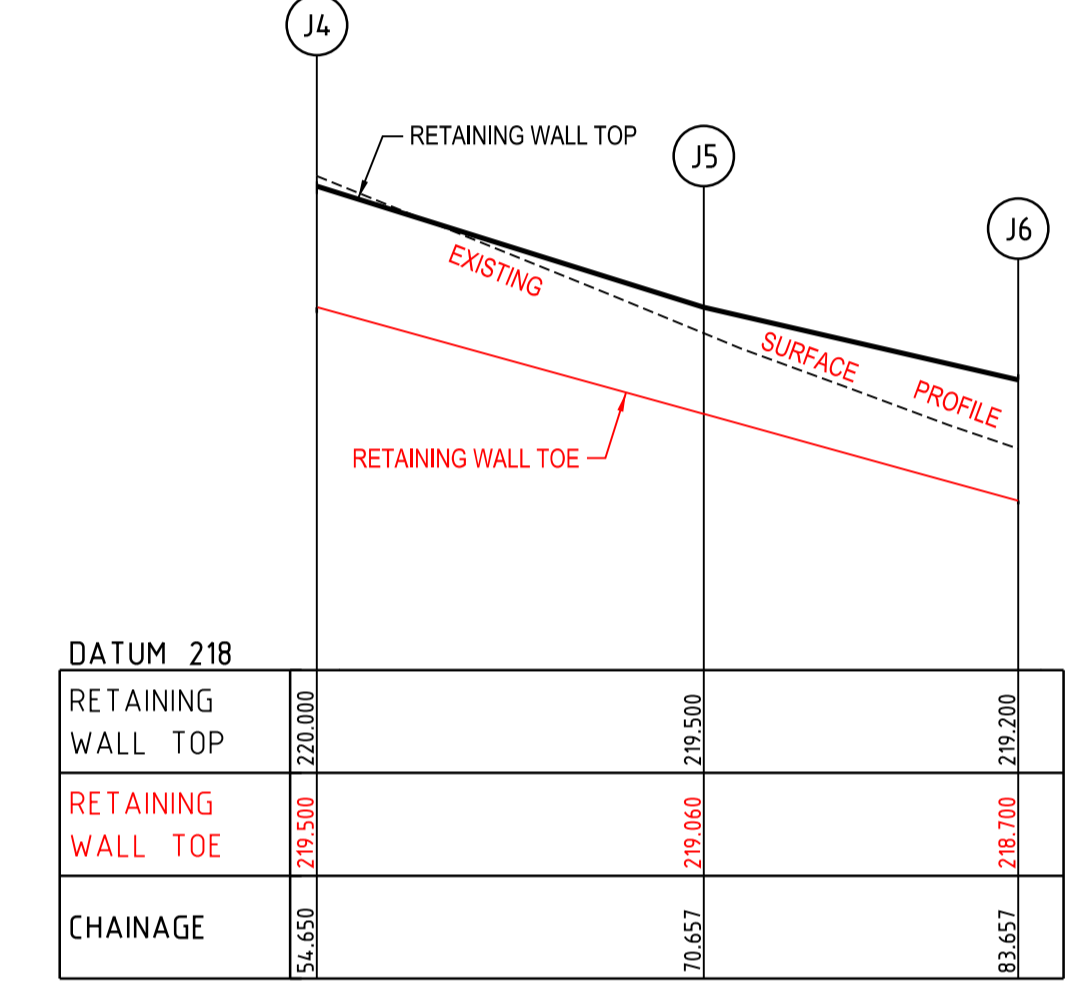
RETAINING WALL F
Hor250
Ver25



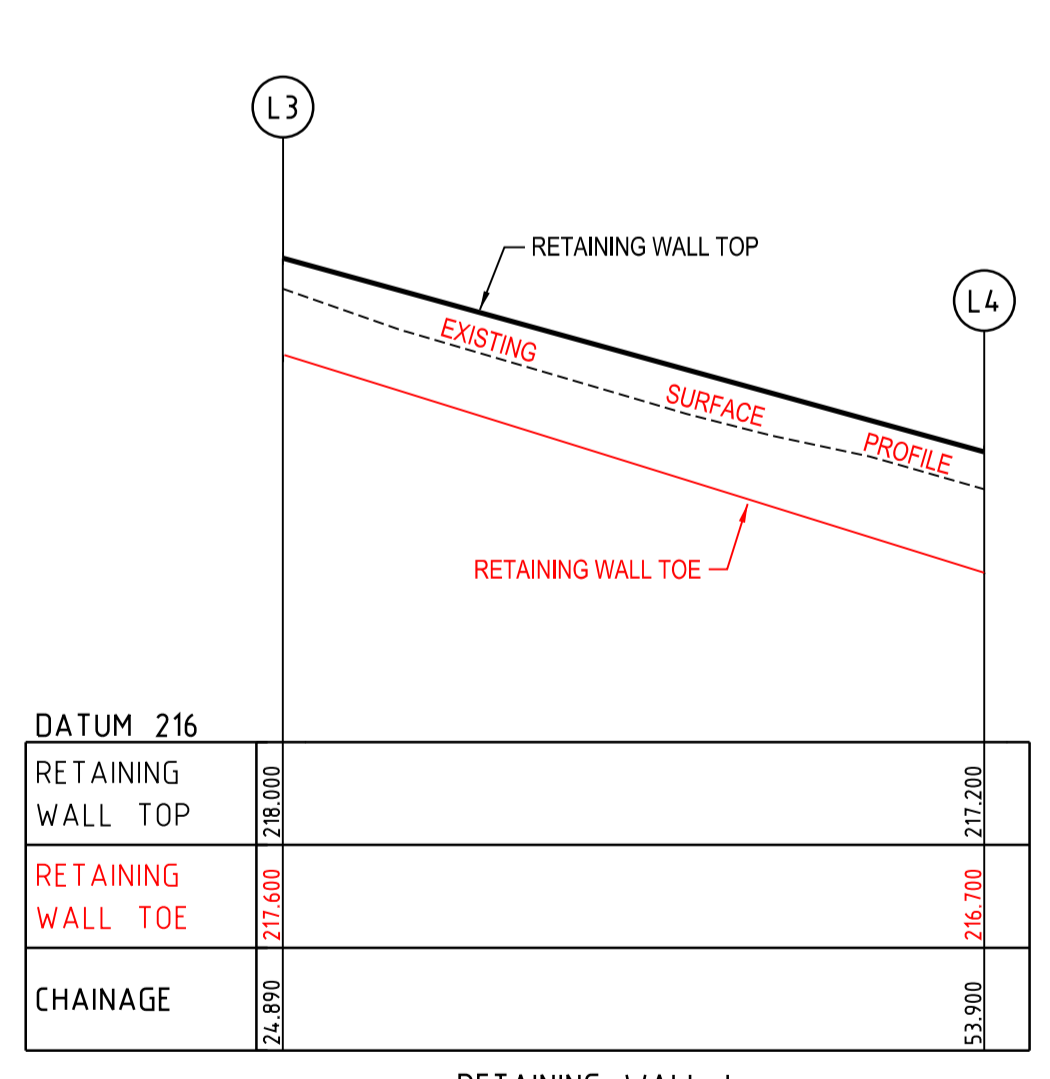
RETAINING WALL G
Hor250
Ver25



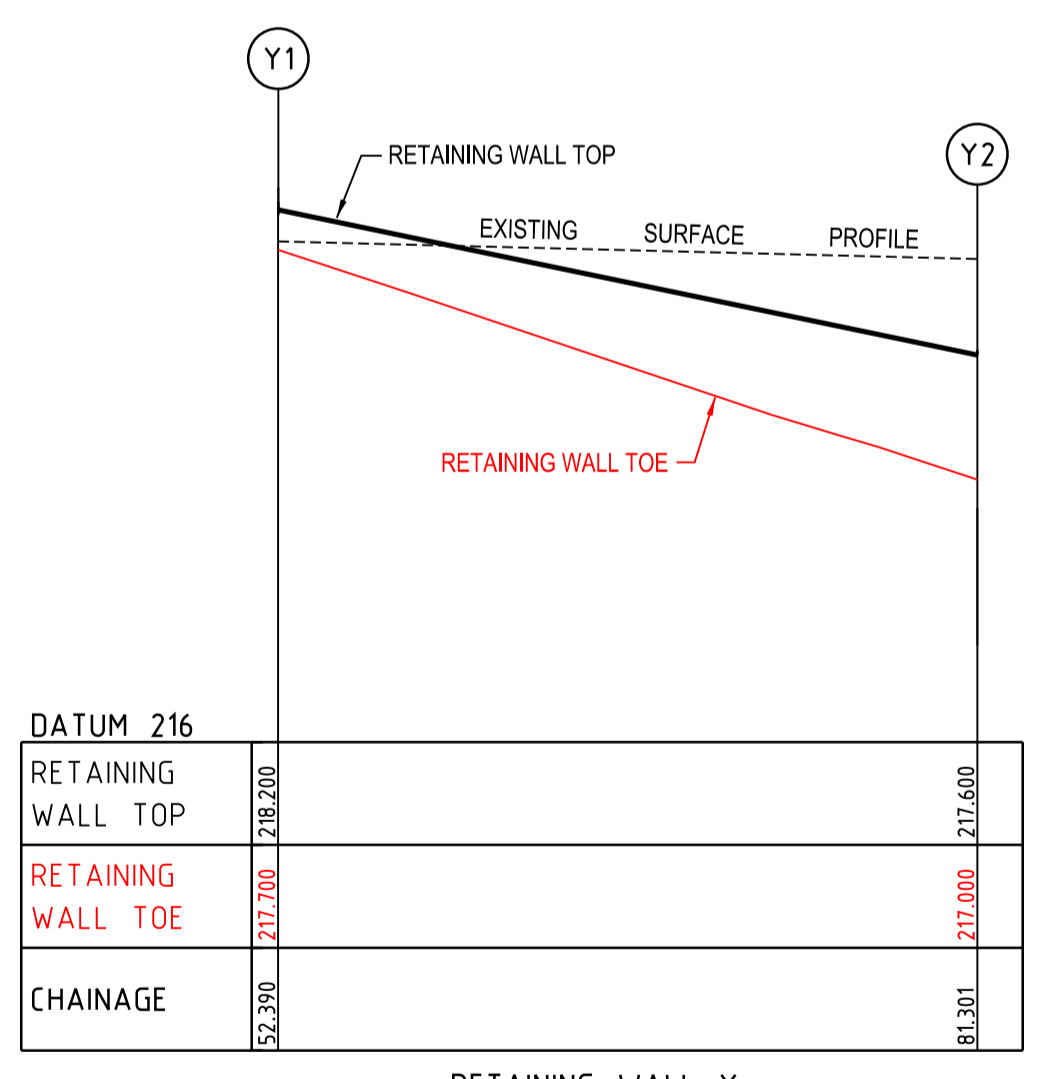
RETAINING WALL H
Hor250
Ver25



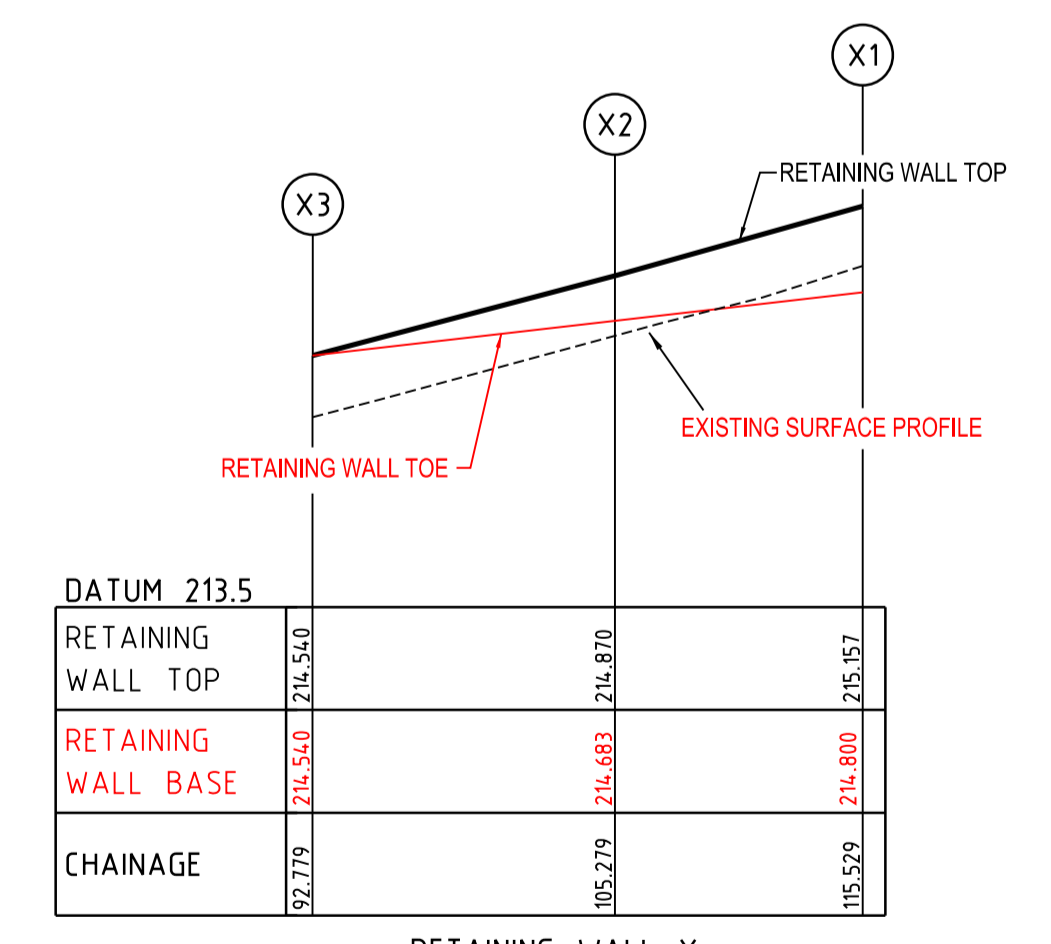
RETAINING WALL J
Hor250
Ver25



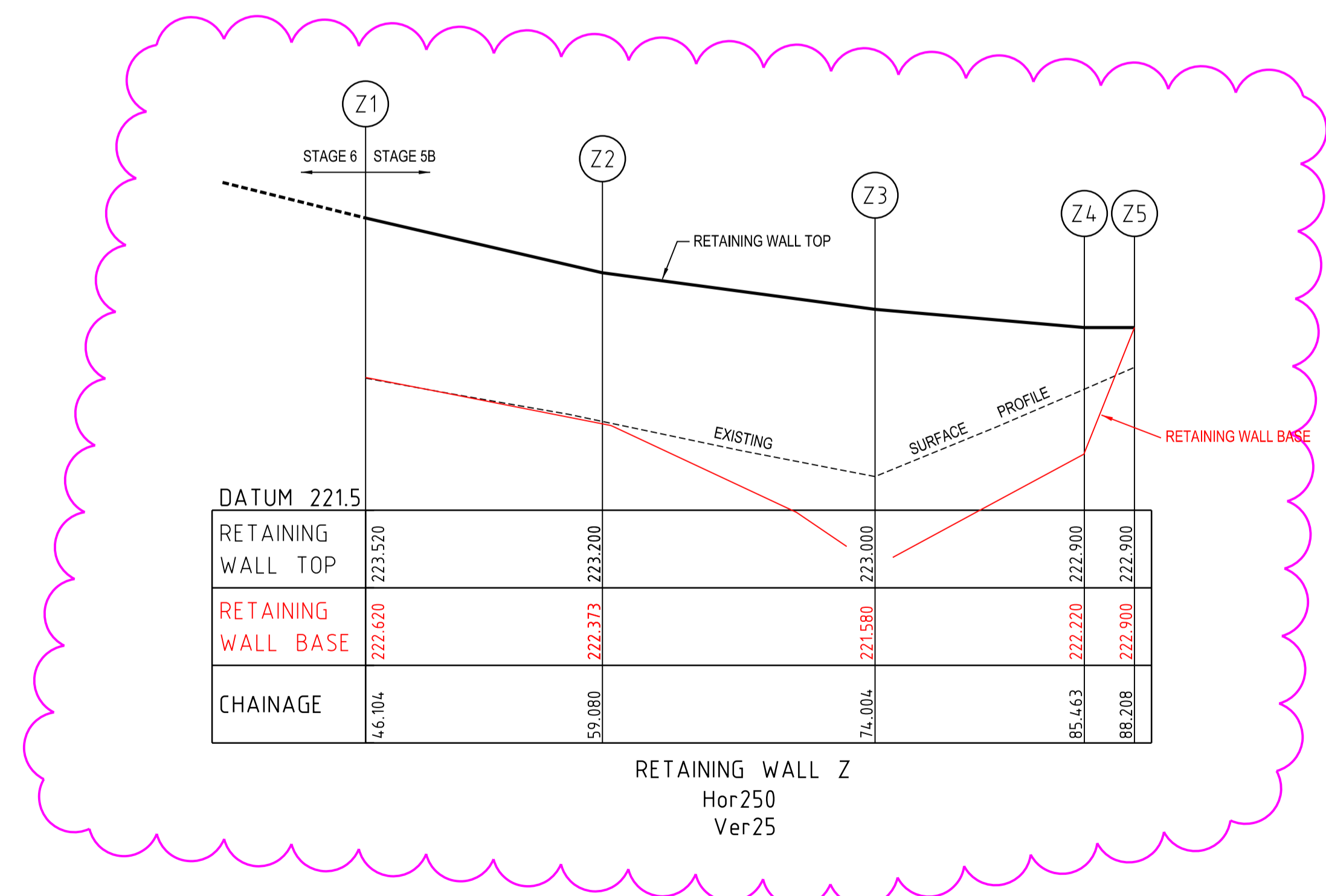
RETAINING WALL L
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Ver25



RETAINING WALL Y
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Ver25

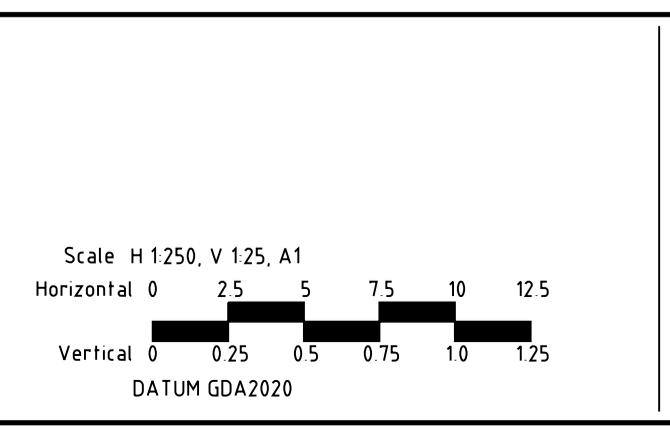


RETAINING WALL X
Hor250
Ver25



RETAINING WALL Z
Hor250
Ver25

Rev	Amendments	Approved	Date
1	ROCK RETAINING WALL ADDED LOT 554, PROFILE Z UPDATED	M.T.S	13/03/24
0	ISSUE FOR CONSTRUCTION	M.T.S	17/07/23



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REDSTONE ESTATE
STAGE 5B
RETAINING WALL DETAILS SHEET 3
VILLAWOOD PROPERTIES
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