

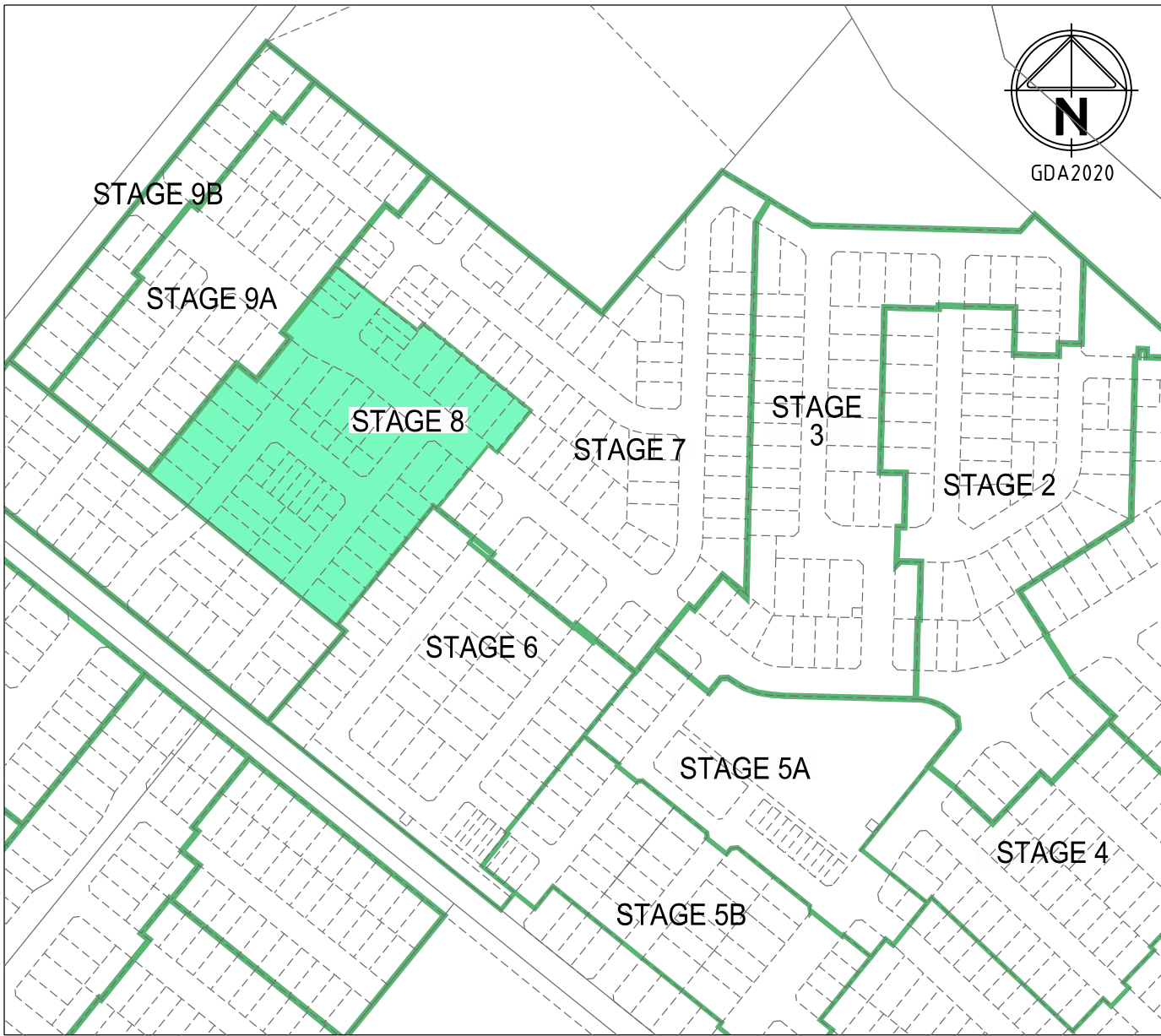
REDSTONE ESTATE STAGE 8

VILLAWOOD PROPERTIES

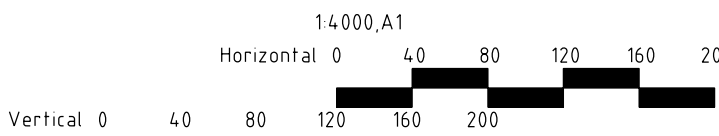
HUME COUNCIL STANDARD NOTES:

- 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 BURNED 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/HA, 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 STORMWATER DRAINS TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO & INCLUDING 750mm DIA. ARE TO BE RUBBER RING JOINTED. INTERLOCKING/FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.

- 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, EG SIGNS, VEHICLE CROSSINGS, FOOTPATHS, KERB AND LINEMARKING SHALL BE REINSTATED BY THE CONTRACTOR PRIOR TO THE COMPLETION OF THE WORKS TO THE SATISFACTION OF THE CHIEF EXECUTIVE OFFICER AND/OR THEIR REPRESENTATIVE.
- 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 EDMC 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 COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGADUR 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.



LOCALITY PLAN



DRAWING SCHEDULE			
DRAWING	DESCRIPTION	SHEET No.	REVISION
305919R01	FACE SHEET	1	8
305919R02	DETAIL PLAN	2	6
305919R03	LOT LEVEL PLAN SHEET 1 OF 2	3	2
305919R04	LOT LEVEL PLAN SHEET 2 OF 2	4	1
305919R05	LONGITUDINAL & CROSS SECTIONS - SACRED DRIVE	5	0
305919R06	LONGITUDINAL & CROSS SECTIONS - ZOOGIE ROAD	6	0
305919R07	LONGITUDINAL & CROSS SECTIONS - NOTCH ROAD	7	0
305919R08	LONGITUDINAL & CROSS SECTIONS - BLUEY CRESCENT	8	0
305919R09	INTERSECTION DETAILS - SHEET 1 OF 2	9	1
305919R10	INTERSECTION DETAILS - SHEET 2 OF 2	10	0
305919R11	DRAINAGE LONGSECTIONS - SHEET 1 OF 4	11	1
305919R12	DRAINAGE LONGSECTIONS - SHEET 2 OF 4	12	0
305919R13	DRAINAGE LONGSECTIONS - SHEET 3 OF 4	13	0
305919R14	DRAINAGE LONGSECTIONS - SHEET 4 OF 4 & PIT SCHEDULE	14	1
305919R15	TYPICAL CROSS SECTIONS AND TYPICAL DETAILS	15	0
305919R16	PAVEMENT DETAILS	16	0
305919R17	SIGNAGE, LINEMARKING & CARPARKING PLAN	17	2
305919R18	RETAINING WALL DETAILS SHEET 1	18	0
305919R19	RETAINING WALL DETAILS SHEET 2	19	0
305919R20	PASSIVE IRRIGATION DETAILS SHEET 1	20	0
305919R21	PASSIVE IRRIGATION DETAILS SHEET 2	21	0

SERVICES OFFSETS AND LOCATION TABLE

Location	WATER		ELECTRICITY		TELECOM
	DW	CABLES	POLE		
SACRED DRIVE	2.75 N	2.55 S	0.90 BOK		1.80 N
ZOOGIE ROAD	2.60 W	2.40 E	0.90 BOK		1.80 E
NOTCH ROAD	2.60 W	2.40 E	0.90 BOK		1.80 E
BLUEY ROAD (LOTS 841 TO 811)	2.60 S	2.40 N	0.90 BOK		1.80 N
BLUEY ROAD (LOTS 841 TO 845)	2.60 W	2.40 E	0.90 BOK		1.80 E

LEGEND

DESCRIPTION

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	NDW
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
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN		
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN		
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	169.00	169.00
SURFACE CONTOUR MAJOR	168.90	168.90
SURFACE LEVEL	123.45	FS124.68
SURFACE LEVEL (FOOTPATH)		FP124.68 (ADJACENT RETAINING WALL)
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
RETAINING WALL		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (& SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION		B2 SM2



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.

8	DRAWING SCHEDULE UPDATED R01, R02 & R06	M.T.S	20/03/23
7	DRAWING SCHEDULE UPDATED R01 & R02	M.T.S	07/12/22
6	DRAWING SCHEDULE UPDATED R01, R02, R04	M.T.S	17/11/22
5	DRAWING SCHEDULE UPDATED R01, R02, R03, R04 R14	M.T.S	03/11/22
4	DRAWING SCHEDULE UPDATED R01 & R02	M.T.S	13/10/22
3	DRAWING SCHEDULE UPDATED	M.T.S	06/09/22
2	DRAWING SCHEDULE UPDATED	M.T.S	10/05/22
1	SERVICE OFFSET TABLE & DRAWING SCHEDULE UPDATED	M.T.S	14/04/22
Rev	Amendments	Approved	Date



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ABN 55 050 029 635



Communities Designed for Living

Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

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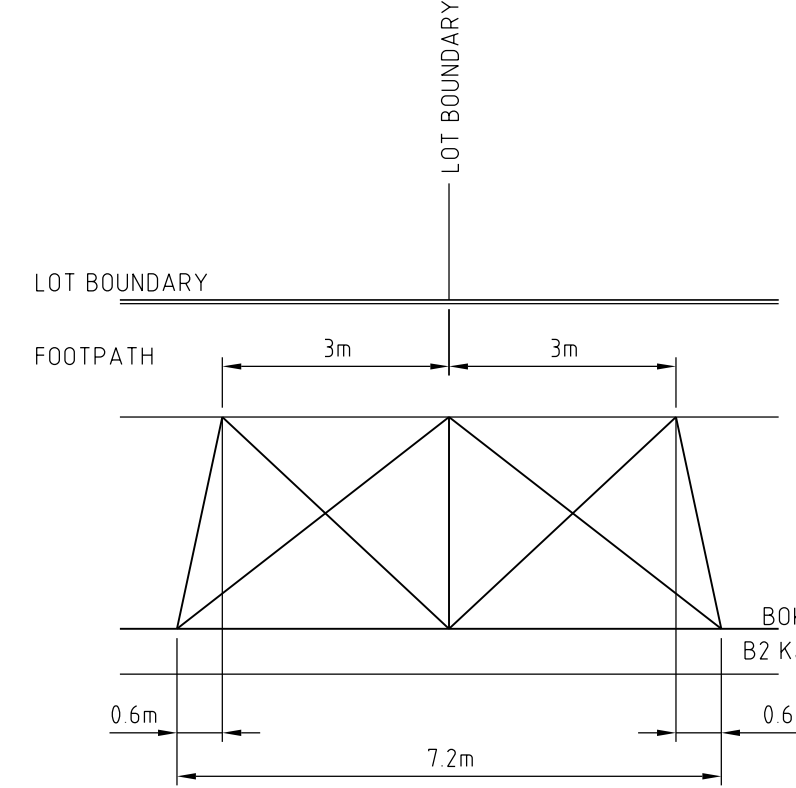
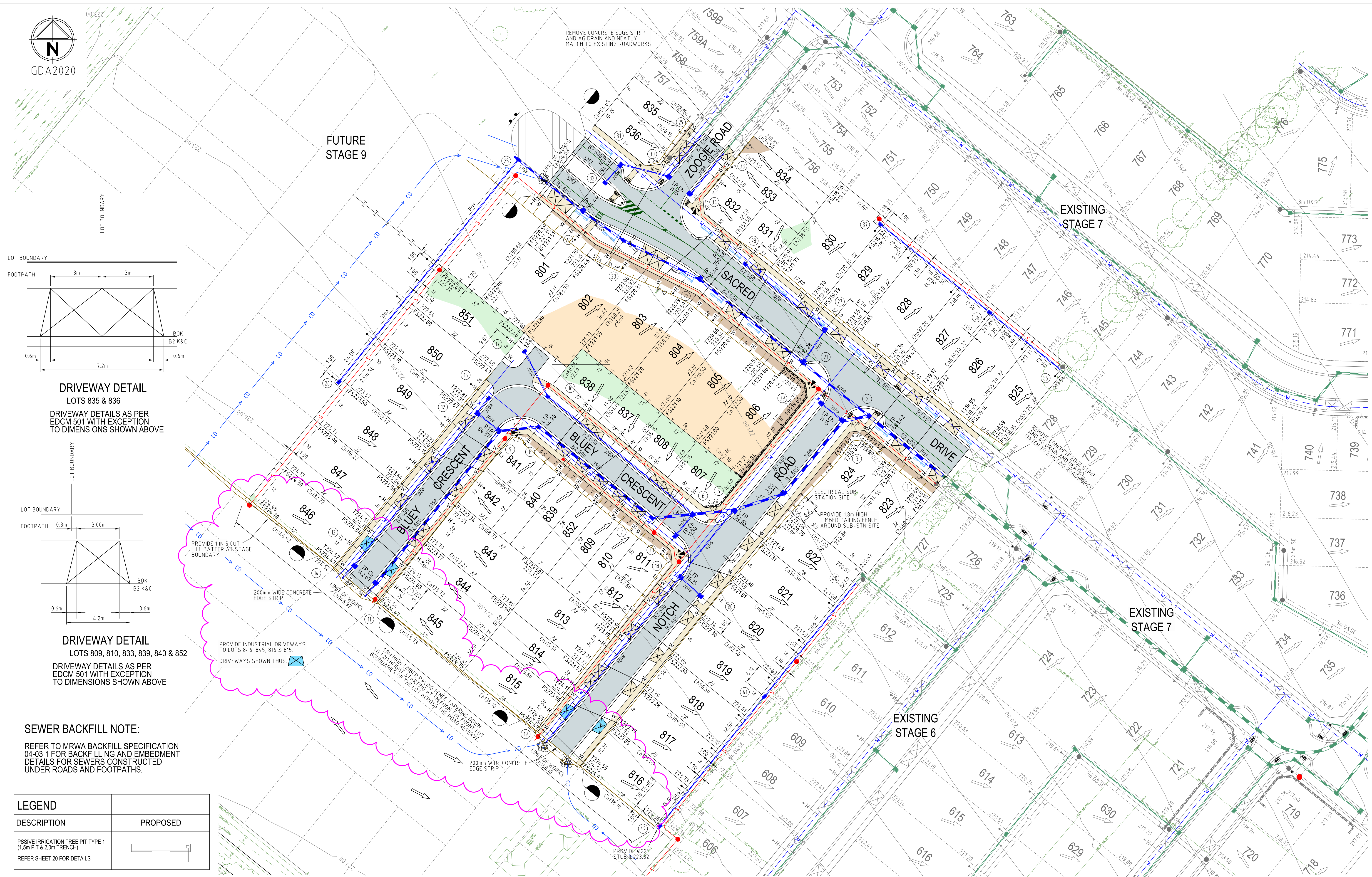
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REDSTONE ESTATE
STAGE 8
FACE SHEET

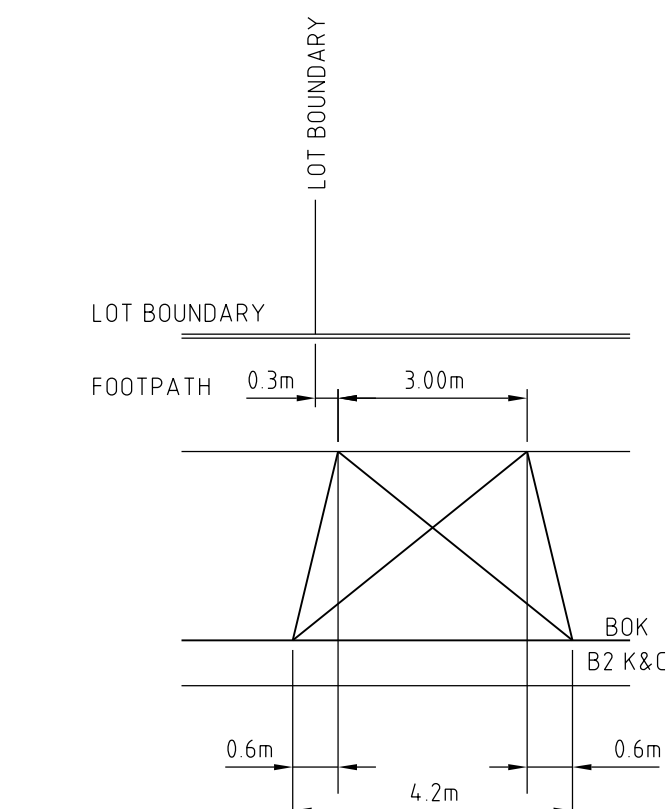
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305919R01**

Rev
8



DRIVEWAY DETAIL
LOTS 835 & 836
DRIVEWAY DETAILS AS PER
EDCM 501 WITH EXCEPTION
TO DIMENSIONS SHOWN ABOVE



DRIVEWAY DETAIL
LOTS 809, 810, 833, 839, 840 & 852
DRIVEWAY DETAILS AS PER
EDCM 501 WITH EXCEPTION
TO DIMENSIONS SHOWN ABOVE

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

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

6	TEMP TURN ZONES REMOVED, FENCING ADDED, INDUSTRIAL DRIVEWAYS ADDED	M.T.S	20/03/23
5	CUT/FILL BATTERS ALONG STAGE BOUNDARY	M.T.S	17/11/22
4	ELEC SUB STATION ADDED REAR LOT 824	M.T.S	17/11/22
3	DRIVEWAY DIMENSIONS UPDATED	M.T.S	03/11/22
2	DRAIN PITS 40 TO 42 REAR LOTS 816 TO 822 ADDED	M.T.S	13/10/22
1	LOT 802 PI IRRIGATION RELOCATED	M.T.S	10/05/22
0	DRIVEWAYS FOR LOTS 802 & 803 UPDATED	M.T.S	08/04/22
Rev	CONSTRUCTION ISSUE	M.T.S	
	Amendments	Approved	Date



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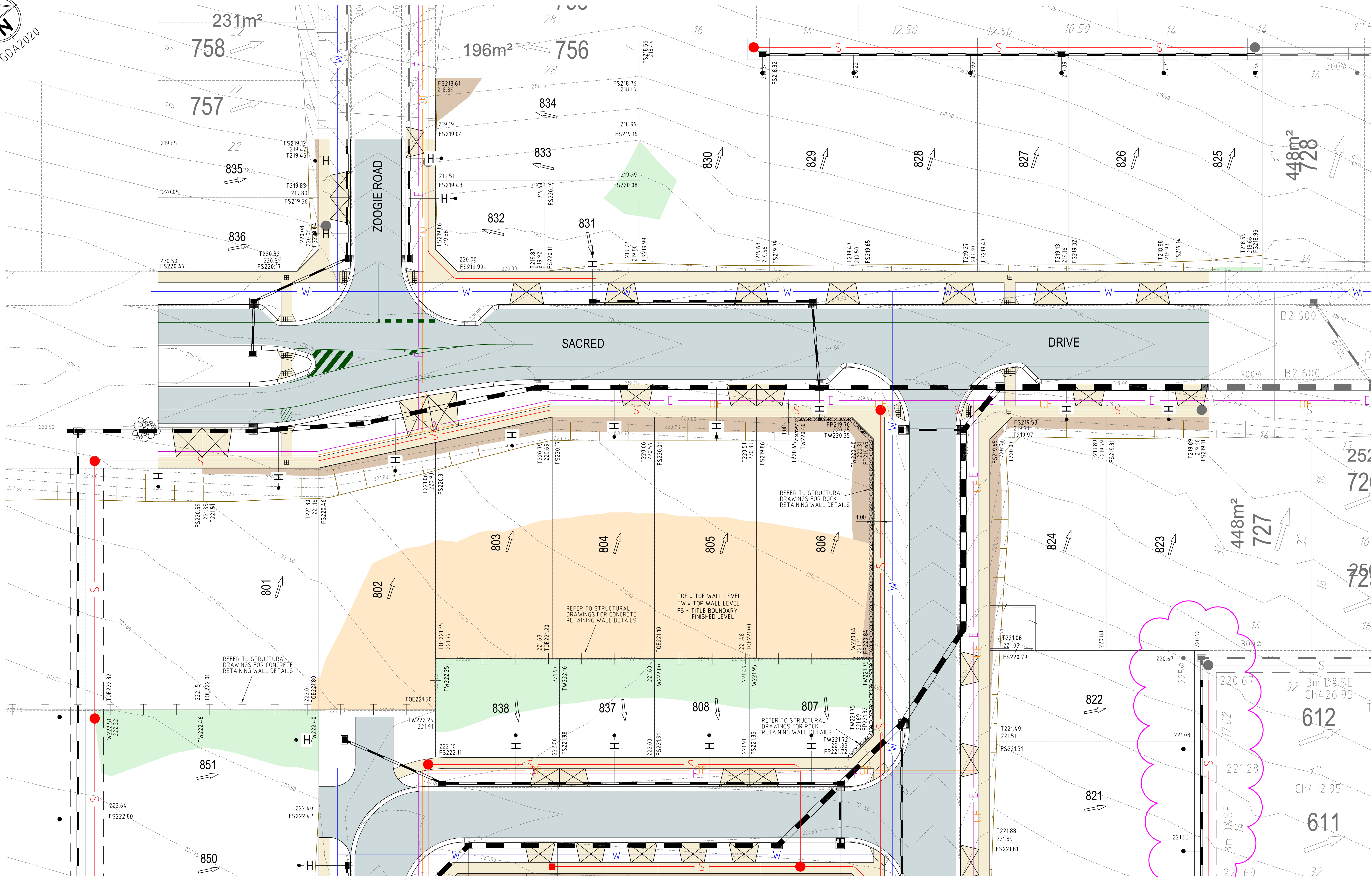
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Designed R. WEINBER	Checked D CAMERON
Authorised M. TOOMER-SMITH	Date 20/12/21

**REDSTONE ESTATE
STAGE 8
ROAD & DRAINAGE FACE PLAN**

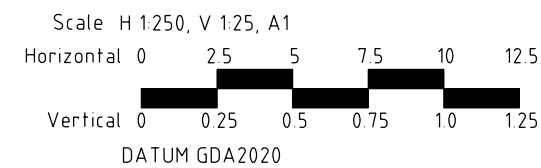
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305919R02** Rev **6**



REFER SHEET 4 FOR CONTINUATION

2	DRAIN PITS 40 TO 42 REAR LOTS 816 TO 822 ADDED	M.T.S	03/11/22
1	DRIVEWAYS FOR LOTS 802 & 803 UPDATED	M.T.S	10/05/22
0	CONSTRUCTION ISSUE	M.T.S	08/04/22
Rev	Amendments	Approved	Date



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Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

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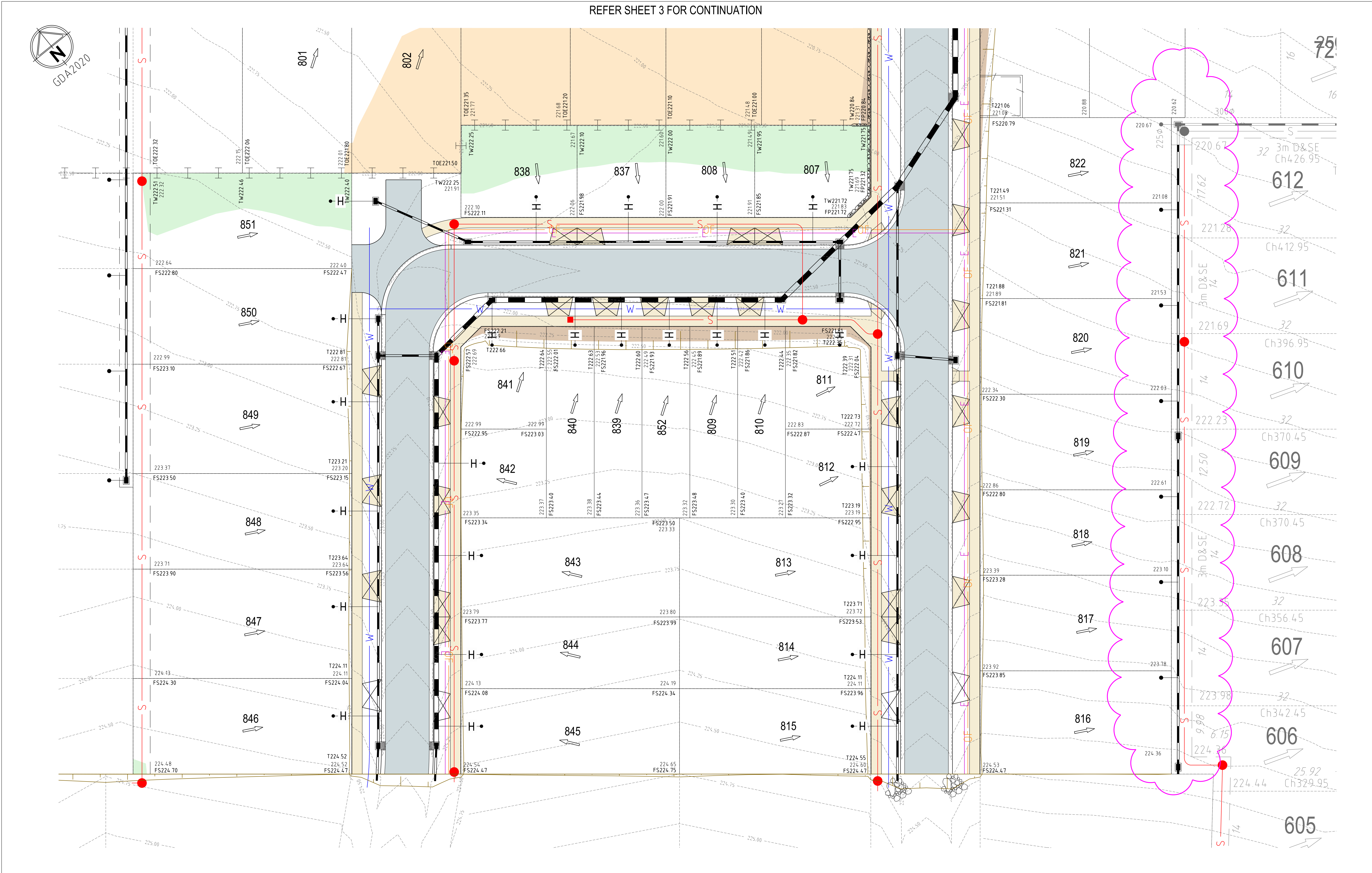
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Date
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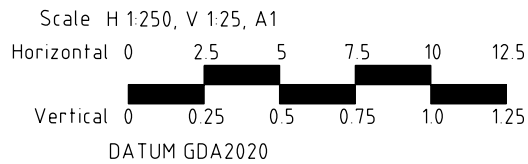
REDSTONE ESTATE
STAGE 8
LOT LEVEL PLAN
SHEET 1 OF 2

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305919R03** Rev **2**





1	DRAIN PITS 40 TO 42 REAR LOTS 816 TO 822 ADDED	M.T.S	03/11/22
0	CONSTRUCTION ISSUE	M.T.S	08/04/22
Rev	Amendments	Approved	Date




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Designed
R. WEINBER
Authorised
M. TOOMER-SMITH


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Checked
D. CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 8
LOT LEVEL PLAN
SHEET 2 OF 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
AS CONSTRUCTED Drg No **305919R04** Rev **1**



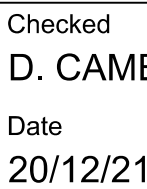
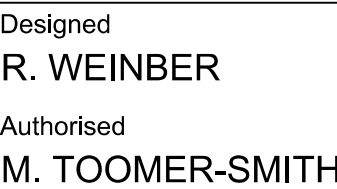
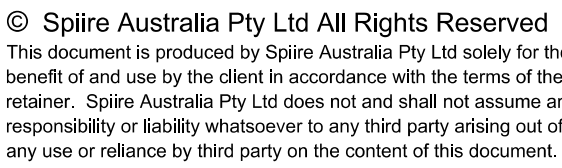
IF NOT SHOWN FOR CLARITY
ALL BATTERS WITHIN ALLOTMENTS
TO BE GRADE 1 IN 5.
UNLESS NOTED OTHERWISE



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

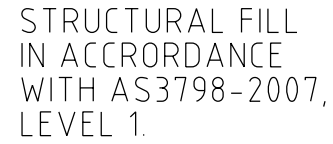
Scale H 1:500, V 1:50, A1 (LONG SECTIONS)
Horizontal 0 5 10 15 20 25
Vertical 0 0.5 1.0 1.5 2.0 2.5

DATUM GDA2020



AS CONSTRUCTED Drg No **305919R05**

Rev
0



(ALLOTMENT MINIMUM GRADE 1 IN 150)

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



Scale H 1100, V 150, A1 (CROSS SECTIONS)

Horizontal 0 1 2 3 4 5

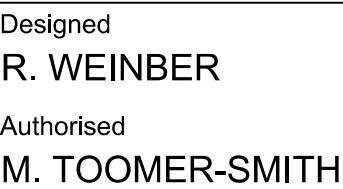
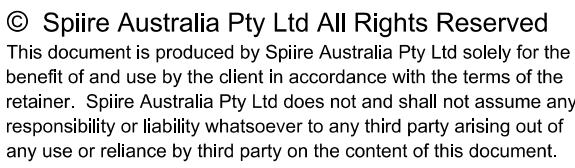
Vertical 0 0.5 1.0 1.5 2.0 2.5

Scale H 1500, V 150, A1 (LONG SECTIONS)

Horizontal 0 5 10 15 20 25

Vertical 0 0.5 1.0 1.5 2.0 2.5

DATUM GDA2020

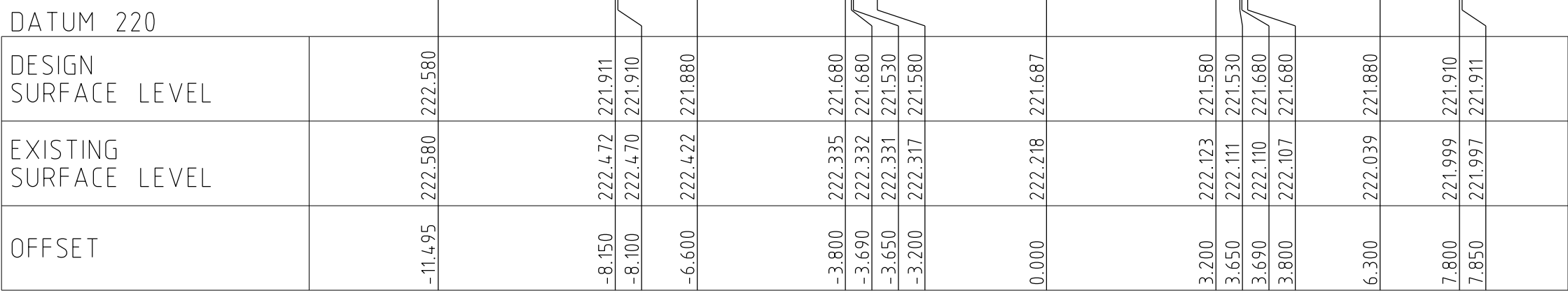


AS CONSTRUCTED Drg No **305919R06**

Rev
0

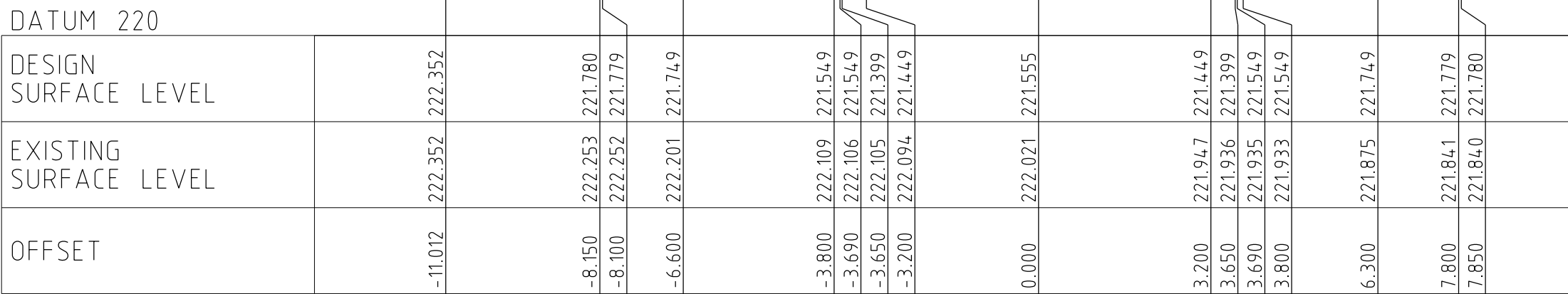


STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



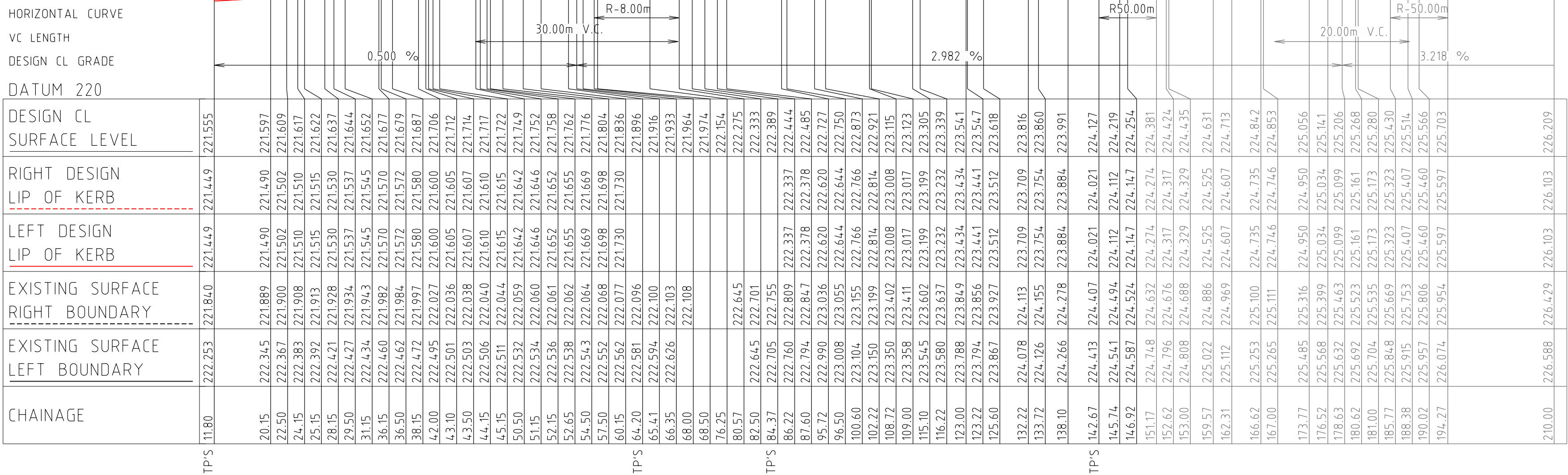
BLUEY CRESCENT

Ch 38.15

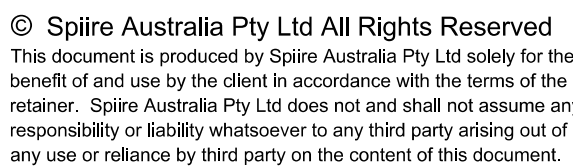
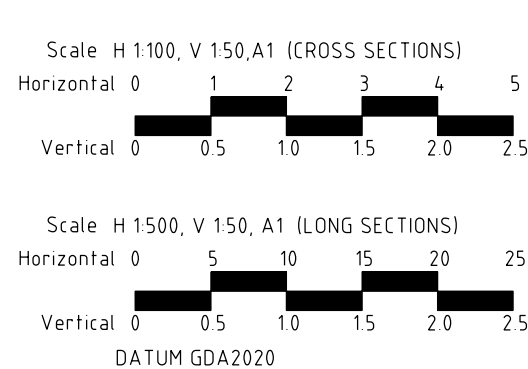


BLUEY CRESCENT

Ch 11.80



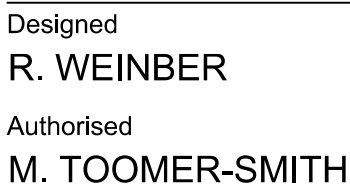
BLUEY CRESCENT



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Date
20/12/21

**REDSTONE ESTATE
STAGE 8
LONGITUDINAL & CROSS SECTIONS
BLUEY CRESCENT
VILLAWOOD PROPERTIES
HUME CITY COUNCIL**

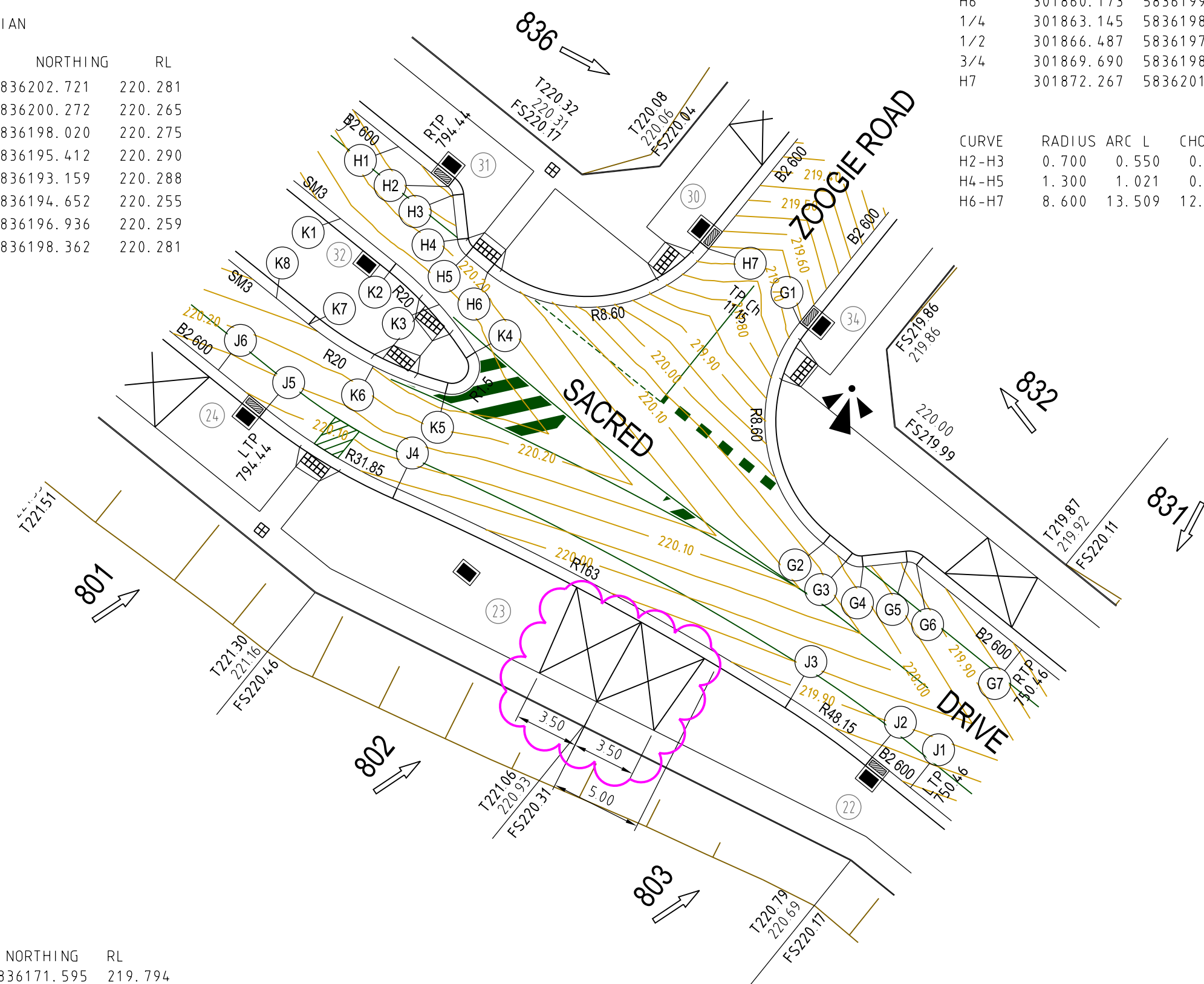
AS CONSTRUCTED Drg No **305919R08**

ev
D



ALIGNMENT K - MEDIAN

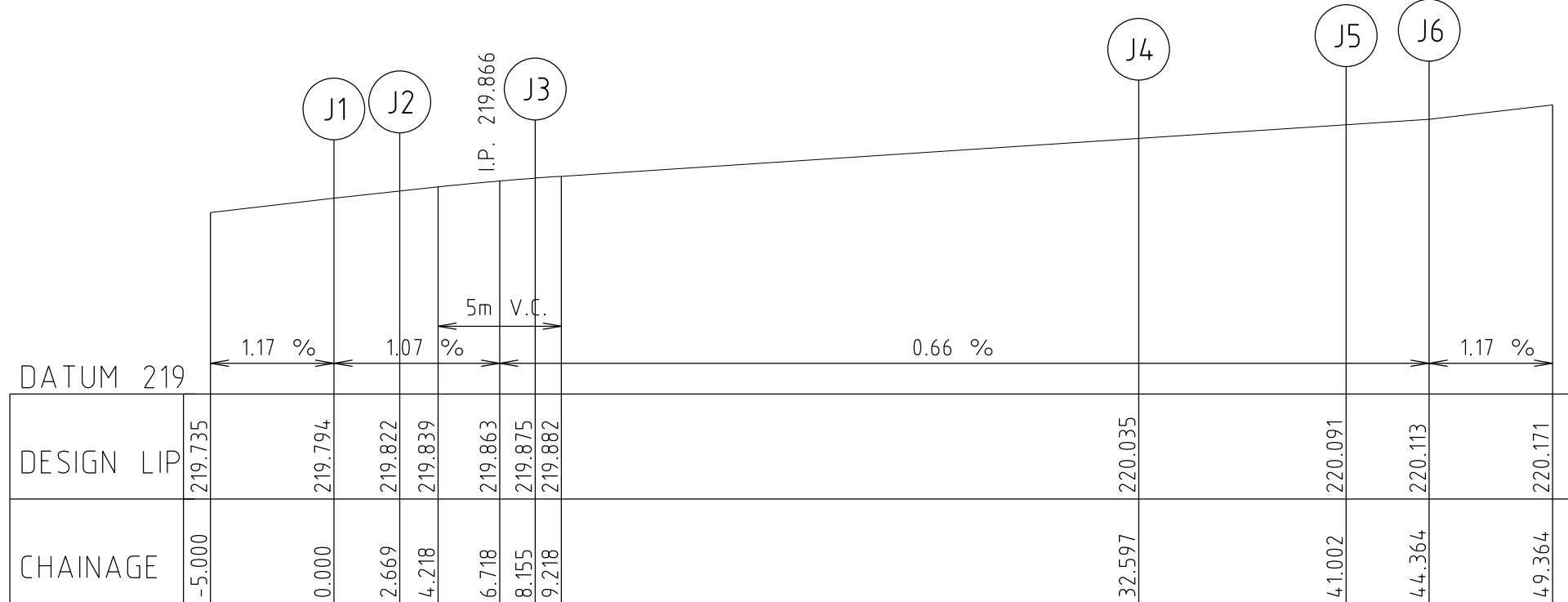
POINT NO	EASTING	NORTHING	RL
K1	301852.136	5836202.721	220.281
K2	301855.171	5836200.272	220.265
K3	301857.537	5836198.020	220.275
K4	301859.505	5836195.412	220.290
K5	301857.855	5836193.159	220.288
K6	301853.922	5836194.652	220.255
K7	301850.387	5836196.936	220.259
K8	301848.620	5836198.362	220.281



ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J1	301883.299	5836171.595	219.794
J2	301881.222	5836173.272	219.822
1/4	301880.143	5836174.118	219.837
1/2	301879.040	5836174.933	219.851
3/4	301877.914	5836175.716	219.864
J3	301876.766	5836176.466	219.875
1/4	301871.546	5836179.641	219.915
1/2	301866.210	5836182.618	219.955
3/4	301860.766	5836185.393	219.995
J4	301855.222	5836187.962	220.035
1/4	301853.328	5836188.872	220.049
1/2	301851.499	5836189.905	220.063
3/4	301849.742	5836191.057	220.077
J5	301848.065	5836192.321	220.091
J6	301845.448	5836194.433	220.113

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J2-J3	48.150	5.485	5.482	0.078	-0.020
J3-J4	163.000	24.443	24.420	0.458	-0.115
J4-J5	31.850	8.404	8.380	0.277	0.069

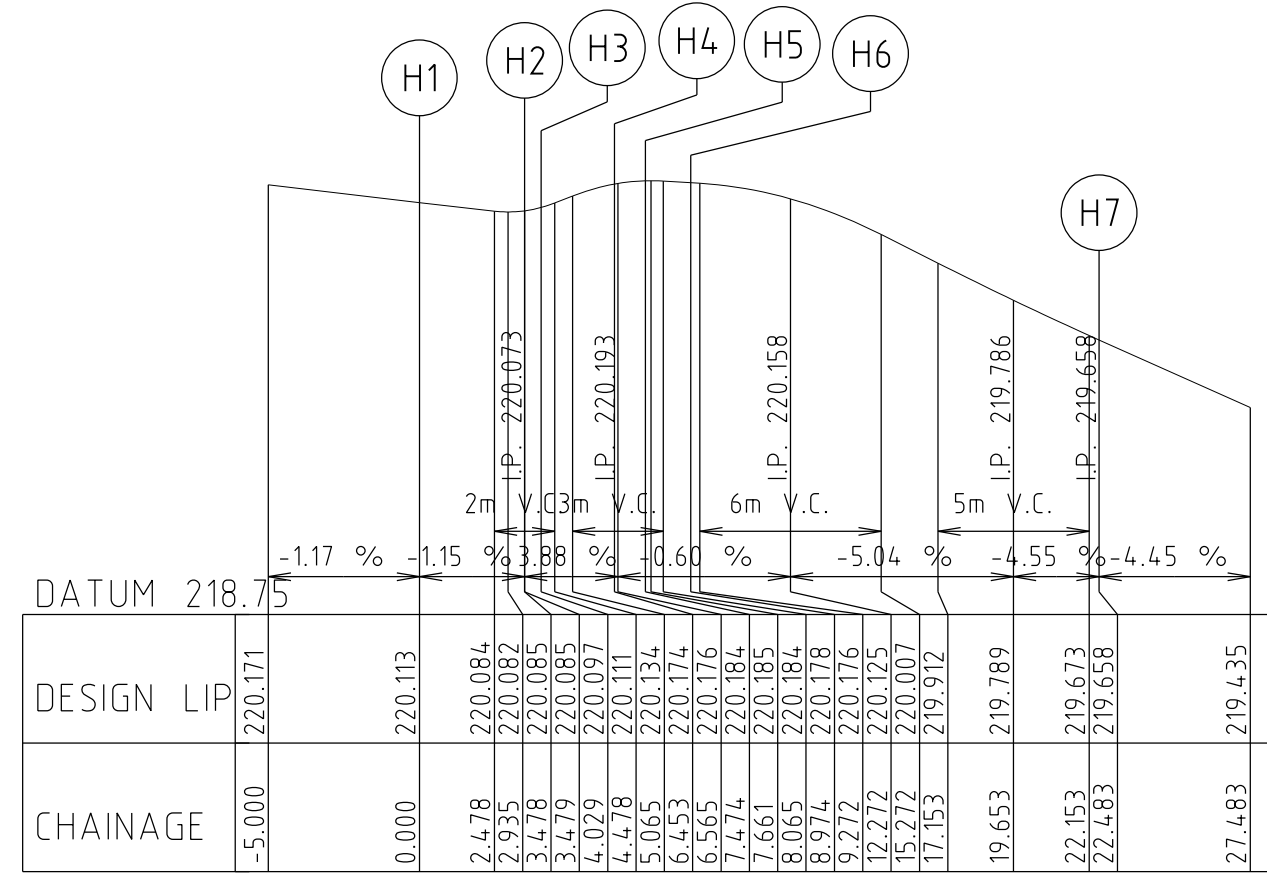


LIP LINE J
Hor250
Ver25

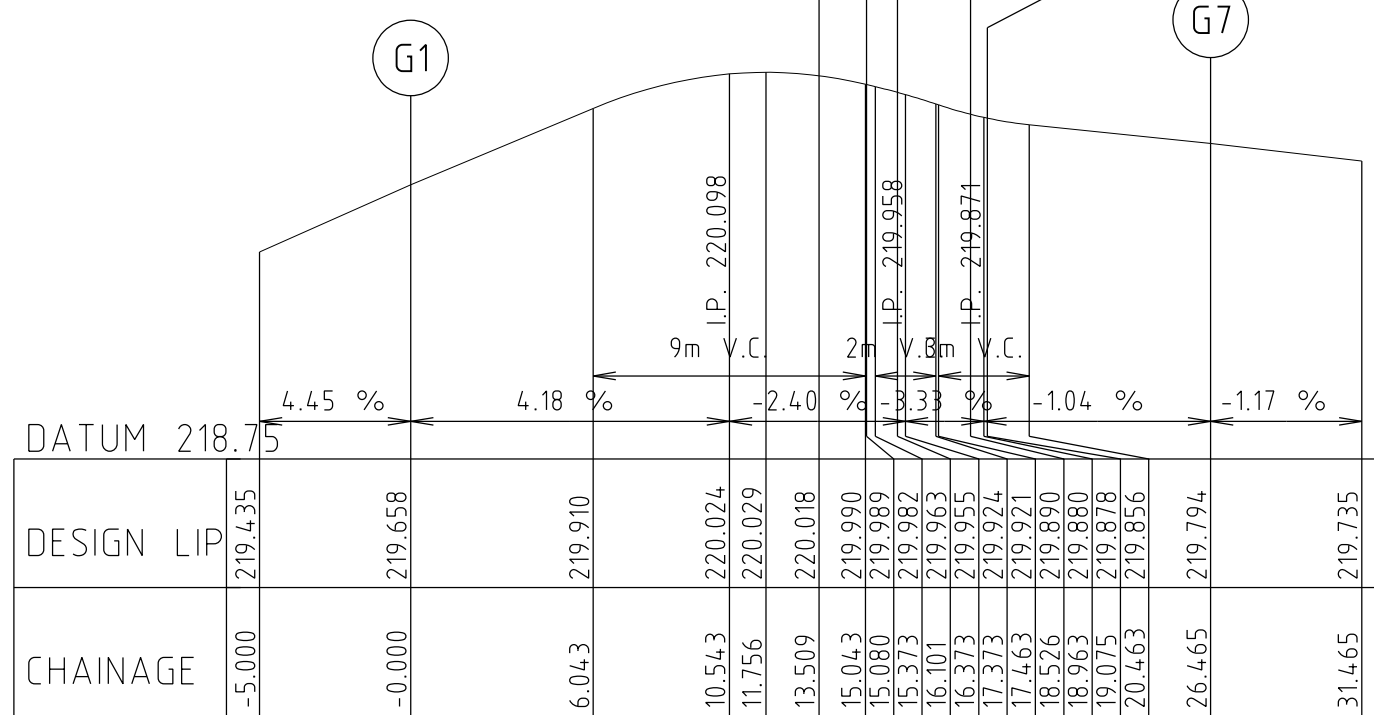
ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	301855.308	5836206.650	220.113
H2	301858.016	5836204.465	220.085
1/4	301858.114	5836204.369	220.087
1/2	301858.191	5836204.255	220.090
3/4	301858.245	5836204.129	220.093
H3	301858.272	5836203.995	220.097
H4	301858.530	5836201.584	220.174
1/4	301858.582	5836201.335	220.178
1/2	301858.681	5836201.100	220.181
3/4	301858.824	5836200.889	220.183
H5	301859.006	5836200.711	220.184
H6	301860.173	5836199.769	220.178
1/4	301863.145	5836198.211	220.123
1/2	301866.487	5836197.910	219.984
3/4	301869.690	5836198.910	219.816
H7	301872.267	5836201.060	219.658

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H2-H3	0.700	0.550	0.536	0.053	0.013
H4-H5	1.300	1.021	0.995	0.099	-0.025
H6-H7	8.600	13.509	12.162	2.519	-0.655



LIP LINE H
Hor250
Ver25



LIP LINE G
Hor250
Ver25

ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	301877.247	5836197.040	219.658
1/4	301875.690	5836194.068	219.799
1/2	301875.388	5836190.726	219.938
3/4	301876.388	5836187.523	220.020
G2	301878.538	5836184.947	220.018
G3	301879.761	5836183.960	219.989
1/4	301879.974	5836183.820	219.983
1/2	301880.211	5836183.724	219.976
3/4	301880.461	5836183.677	219.970
G4	301880.716	5836183.679	219.963
G5	301883.126	5836183.936	219.890
1/4	301883.264	5836183.937	219.887
1/2	301883.398	5836183.912	219.884
3/4	301883.526	5836183.860	219.881
G6	301883.640	5836183.785	219.878
G7	301889.391	5836179.144	219.794

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	8.600	13.509	12.162	2.519	-0.655
G3-G4	1.300	1.021	0.995	0.099	-0.025
G5-G6	0.700	0.550	0.536	0.053	0.013

ALIGNMENT B

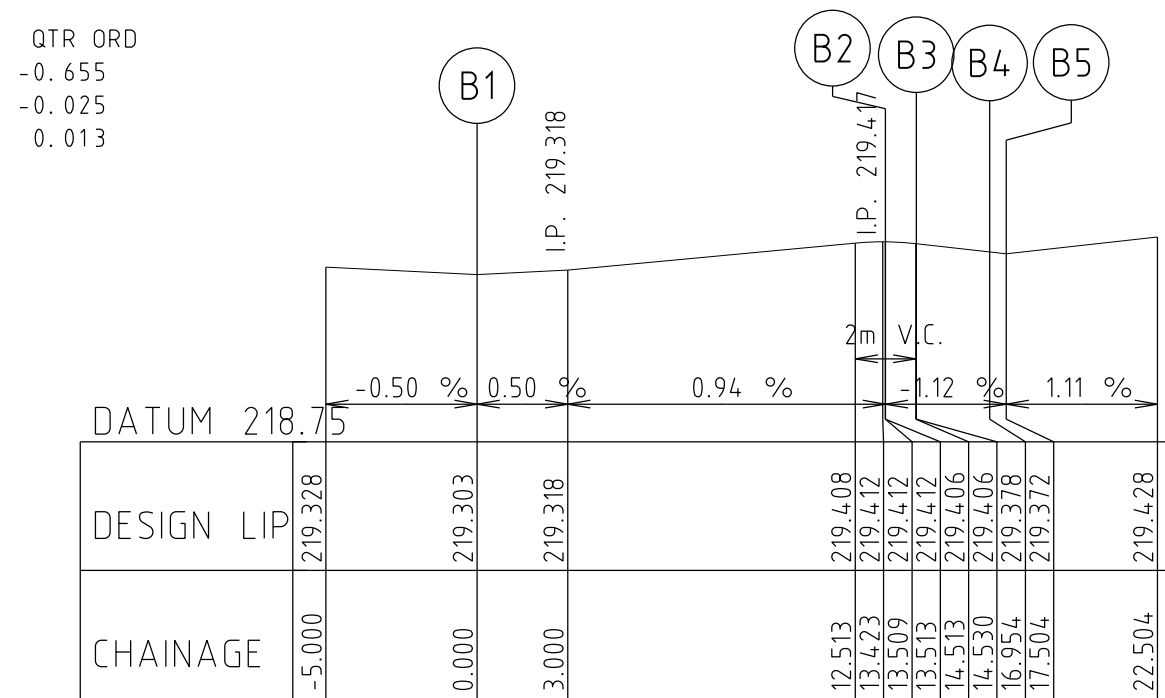
POINT NO	EASTING	NORTHING	RL
B1	301917.403	5836135.975	219.303
1/4	301918.961	5836138.948	219.322
1/2	301919.262	5836142.290	219.354
3/4	301918.262	5836145.493	219.385
B2	301916.112	5836148.069	219.412
1/4	301915.899	5836148.209	219.411
1/2	301915.663	5836148.304	219.410
3/4	301915.412	5836148.352	219.408
B3	301915.158	5836148.350	219.406
B4	301912.747	5836148.093	219.378
1/4	301912.610	5836148.091	219.377
1/2	301912.475	5836148.117	219.375
3/4	301912.348	5836148.169	219.374
B5	301912.233	5836148.244	219.372

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

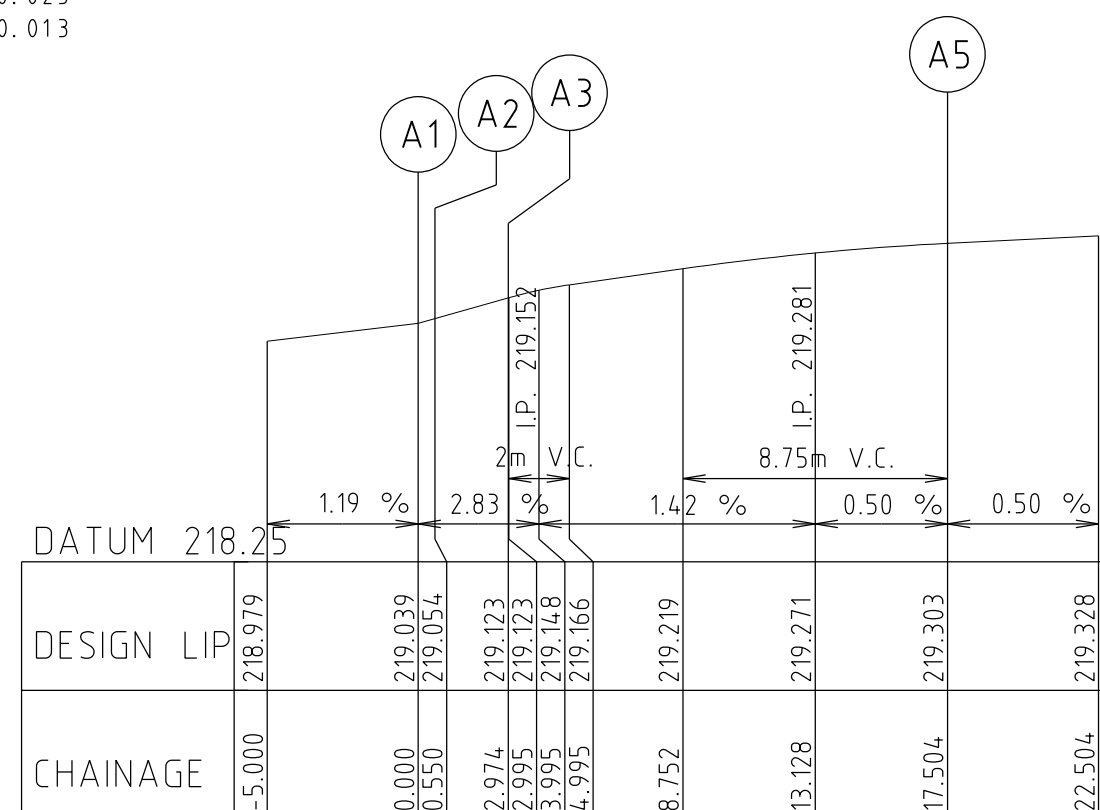
ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	301935.467	5836129.493	219.039
1/4	301935.369	5836129.589	219.043
1/2	301935.292	5836129.702	219.046
3/4	301935.239	5836129.829	219.050
A2	301935.211	5836129.963	219.054
A3	301934.953	5836132.374	219.123
1/4	301934.902	5836132.623	219.130
1/2	301934.802	5836132.858	219.136
3/4	301934.659	5836133.068	219.143
A4	301934.477	5836133.247	219.148
1/4	301931.505	5836134.805	219.200
1/2	301928.163	5836135.106	219.246
3/4	301924.960	5836134.106	219.280
A5	301922.384	5836131.956	219.303

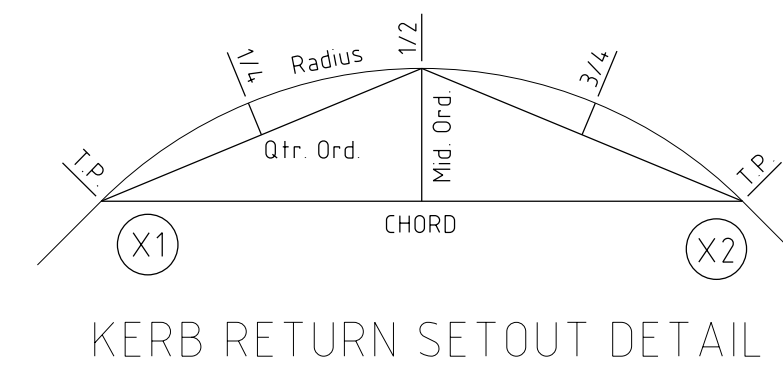
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	0.700	0.550	0.536	0.053	0.013
A3-A4	1.300	1.021	0.995	0.099	-0.025
A4-A5	8.600	13.509	12.162	2.519	-0.655



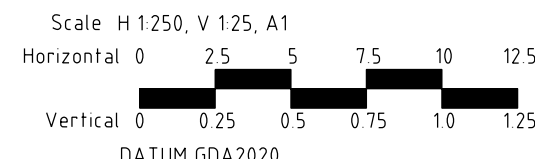
LIP LINE B
Hor250
Ver25



LIP LINE A
Hor250
Ver25



Rev	Amendments	Approved	Date
1	DRIVEWAYS FOR LOTS 802 & 803 UPDATED	M.T.S	10/05/22
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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Authorised
M. TOOMER-SMITH



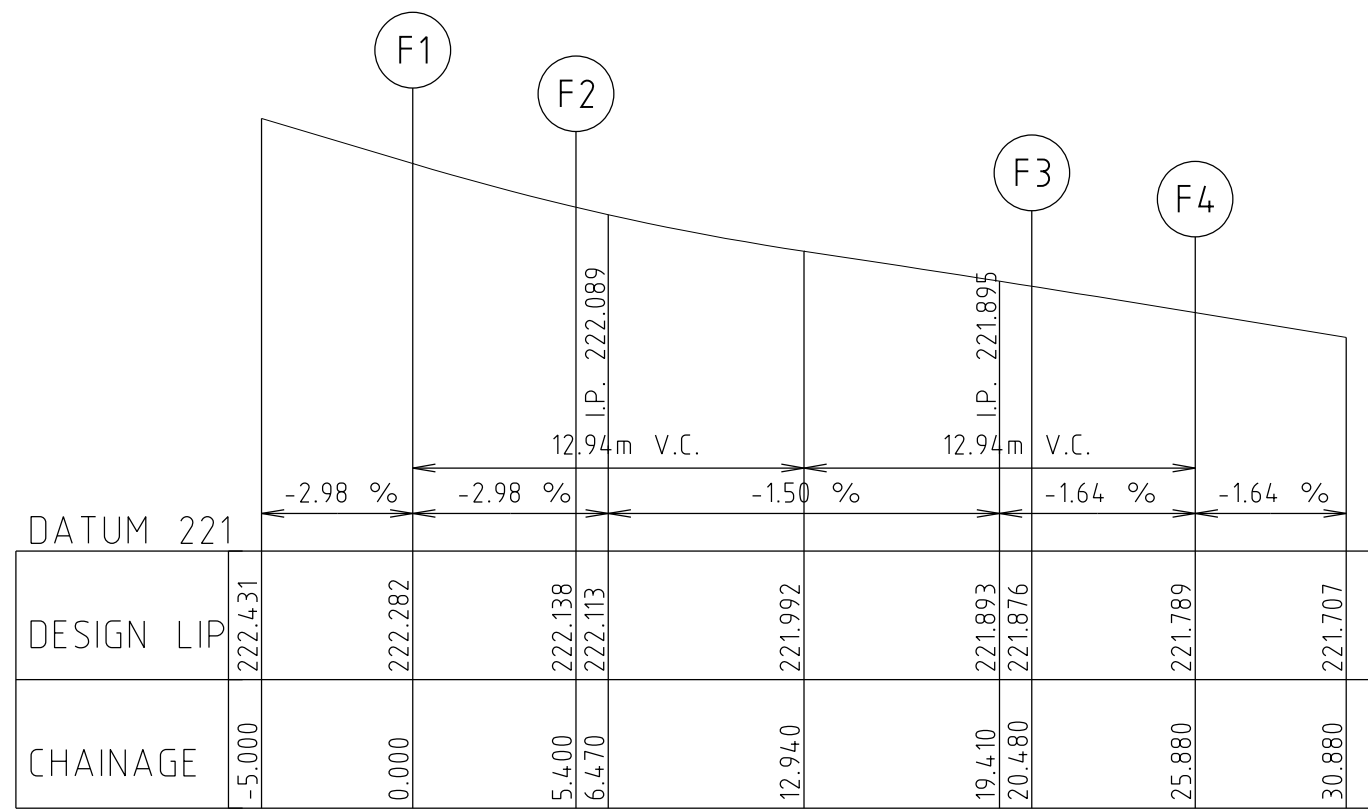
Checked
D. CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 8
INTERSECTION DETAILS SHEET 1

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED
Drg No
305919R09

Rev
1

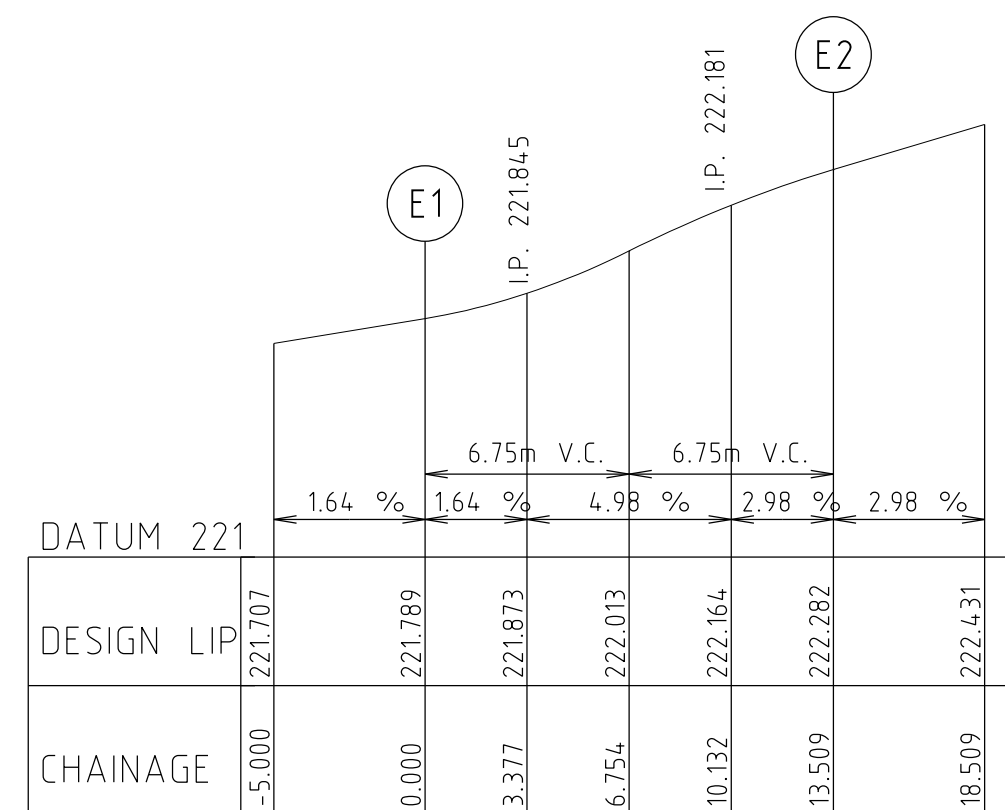


LIP LINE F
Hor250
Ver25

ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	301817.375	5836133.045	222.282
F2	301820.767	5836137.247	222.138
1/4	301823.642	5836139.647	222.057
1/2	301827.218	5836140.764	221.992
3/4	301830.948	5836140.427	221.935
F3	301834.266	5836138.689	221.876
F4	301838.468	5836135.297	221.789

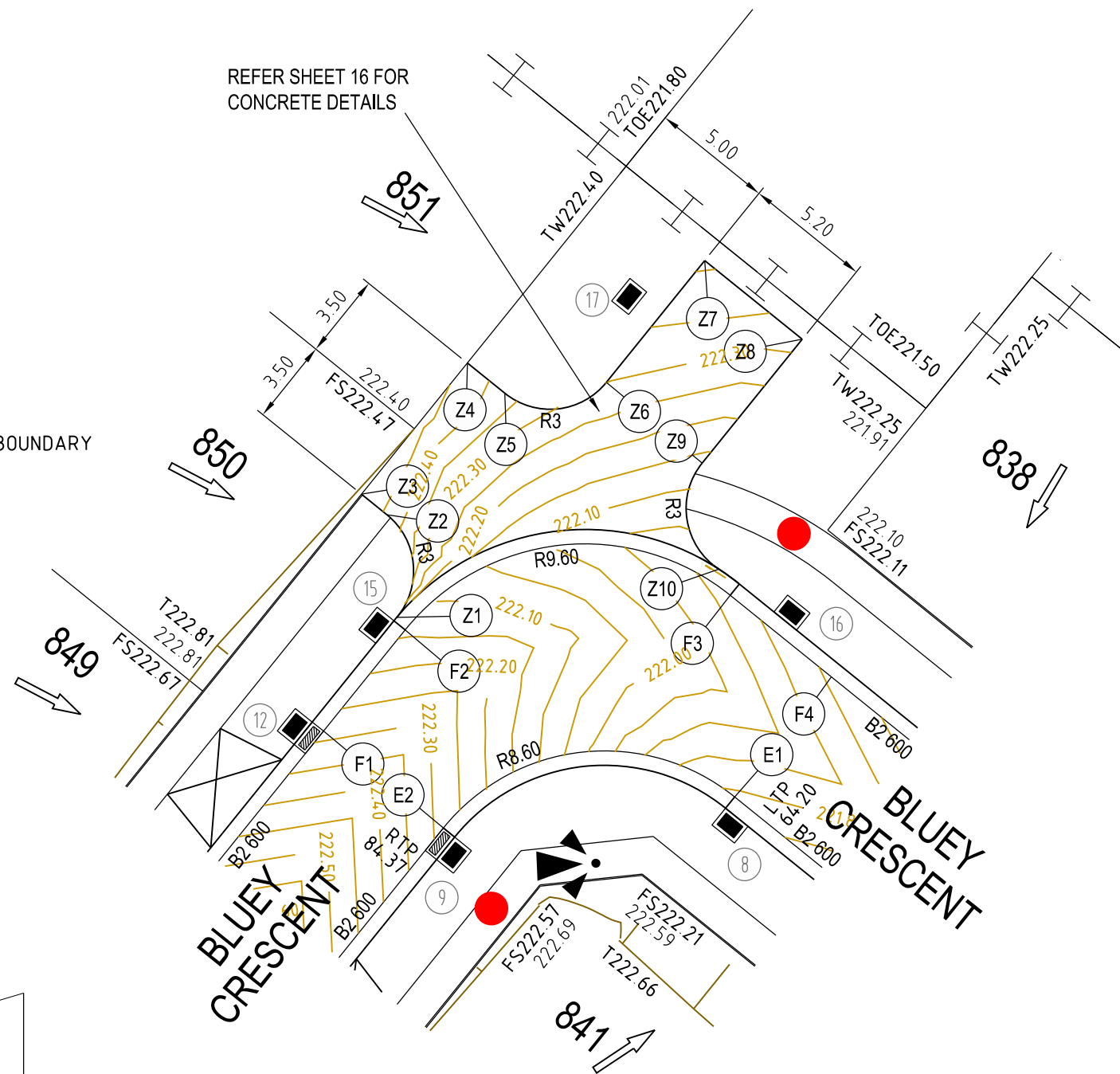
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F2-F3	9.600	15.080	13.576	2.812	0.731



LIP LINE E
Hor250
Ver25



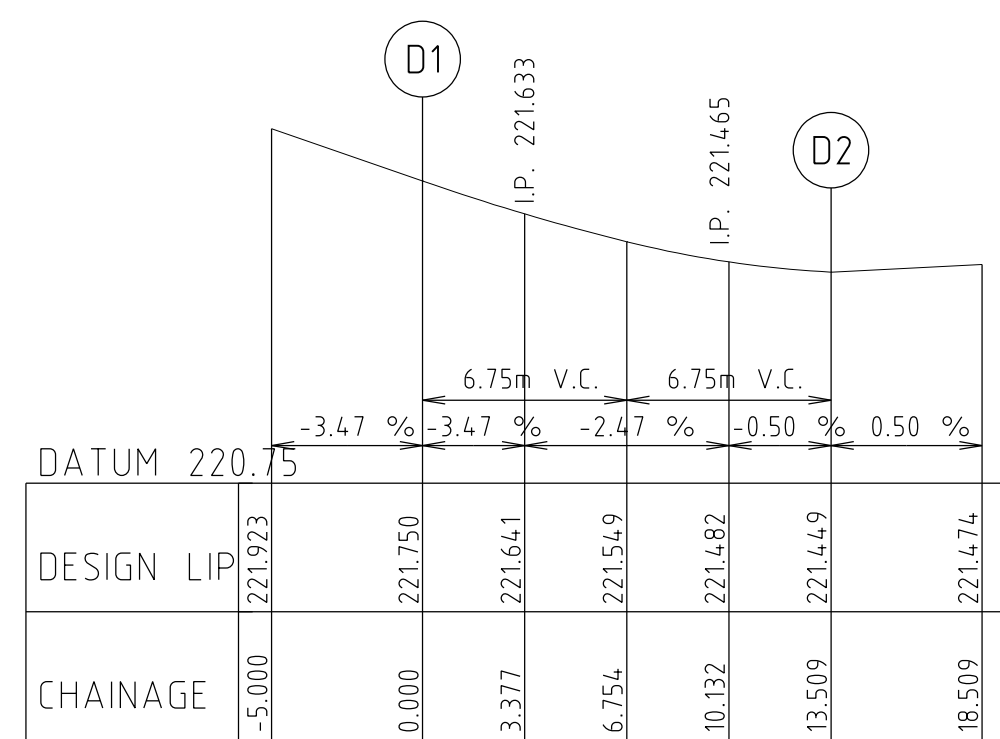
GDA2020



ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	301834.449	5836130.317	221.789
1/4	301831.477	5836131.875	221.873
1/2	301828.135	5836132.176	222.013
3/4	301824.932	5836131.176	222.164
E2	301822.355	5836129.026	222.282

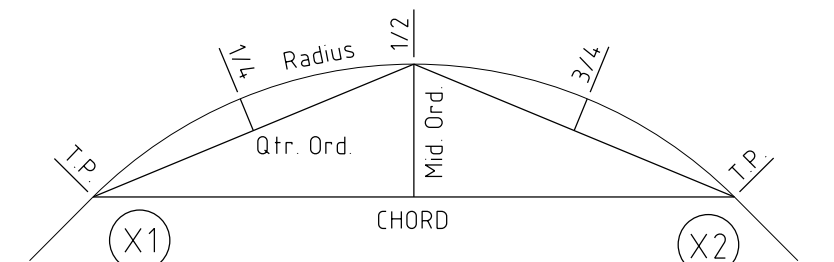
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	8.600	13.509	12.162	2.519	-0.655



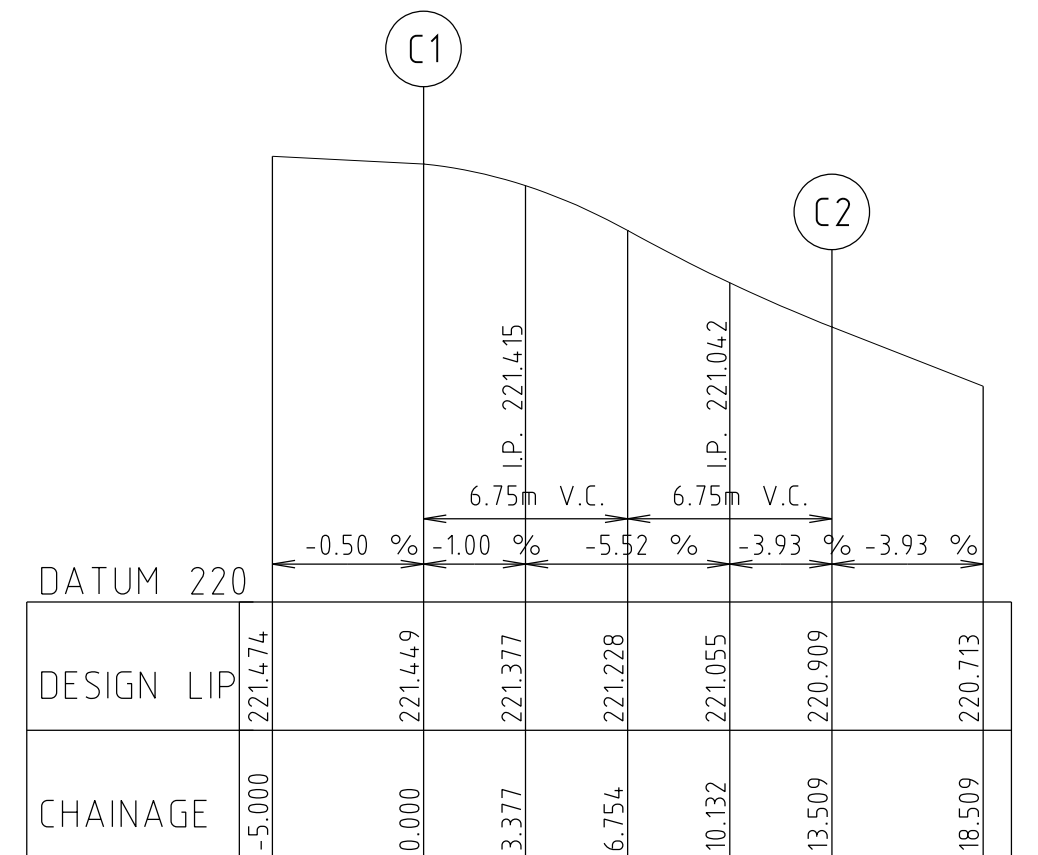
LIP LINE D
Hor250
Ver25

ALIGNMENT Z - DRIVEWAY

POINT NO	EASTING	NORTHING	RL
Z1	301820.420	5836137.771	222.234
Z2	301820.004	5836142.032	222.442
Z3	301818.952	5836142.881	222.500
Z4	301823.348	5836148.328	222.440
Z5	301824.905	5836147.072	222.371
Z6	301829.124	5836147.523	222.301
Z8	301837.252	5836149.315	222.320
Z9	301833.099	5836144.169	222.133
Z10	301833.797	5836139.770	221.992



KERB RETURN SETOUT DETAIL

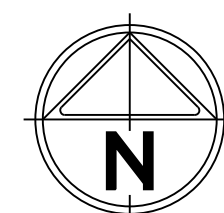


LIP LINE C
Hor250
Ver25

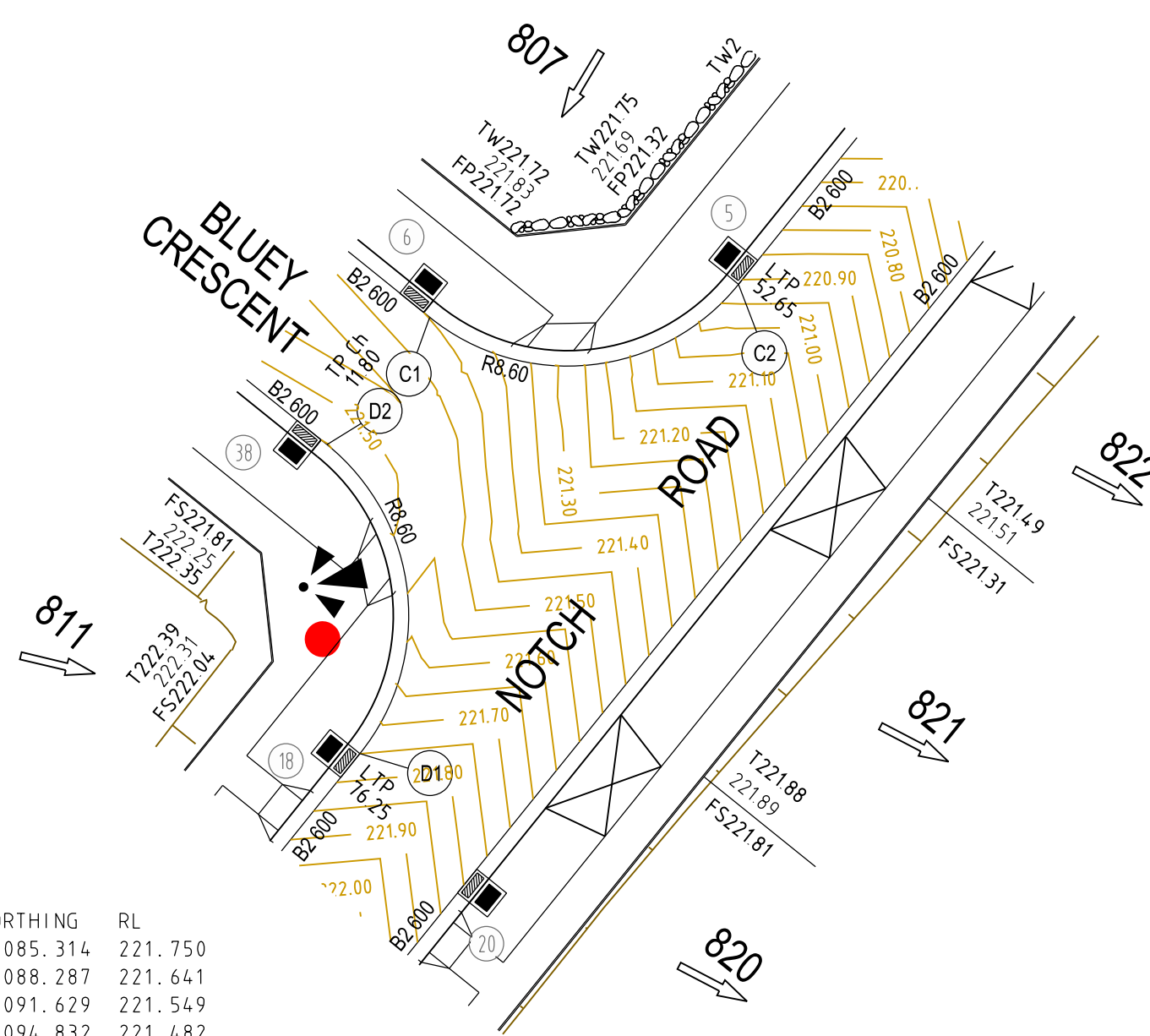
ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	301879.245	5836102.388	221.449
1/4	301882.217	5836100.831	221.377
1/2	301885.559	5836100.529	221.228
3/4	301888.762	5836101.530	221.055
C2	301891.339	5836103.679	220.909

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	-0.655



GDA2020

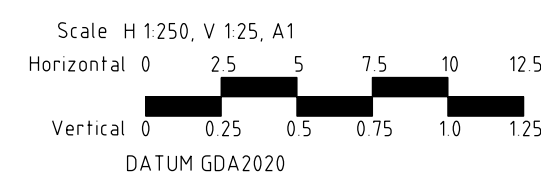


ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	301876.517	5836085.314	221.750
1/4	301878.074	5836088.287	221.641
1/2	301878.376	5836091.629	221.549
3/4	301877.376	5836094.832	221.482
D2	301875.226	5836097.408	221.449

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.509	12.162	2.519	-0.655

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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Authorised
M. TOOMER-SMITH



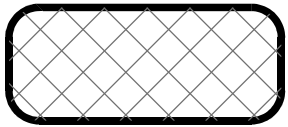
Checked
D. CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 8
INTERSECTION DETAILS SHEET 2

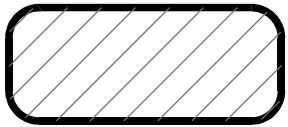
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 305919R10

Rev 0



CLASS 2 CRUSHED ROCK



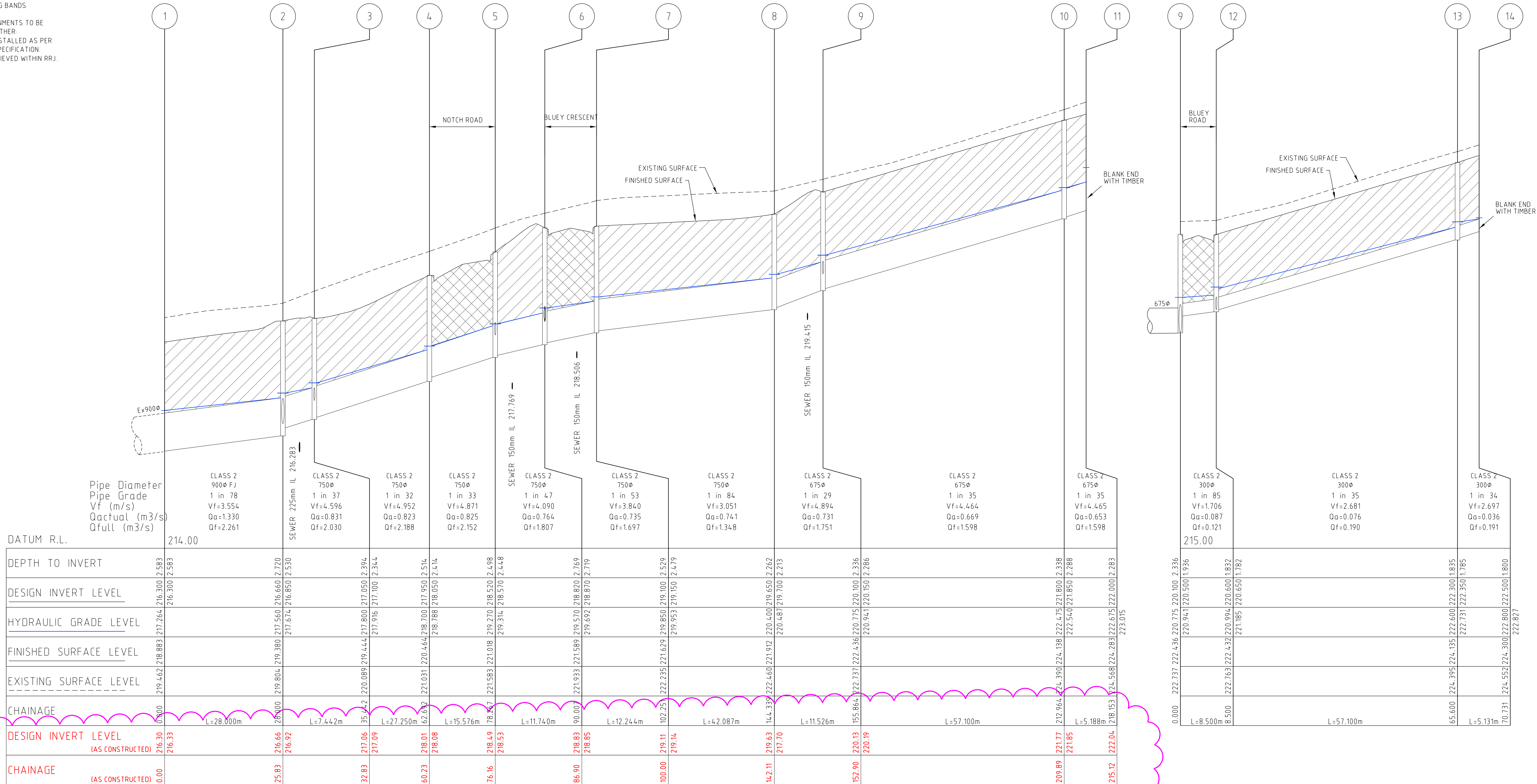
CLASS 3 CRUSHED ROCK

NOTE:

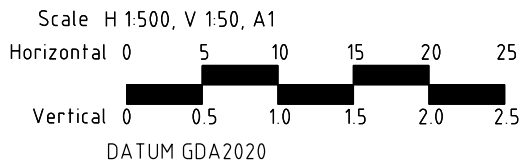
1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.

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

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



1	AS CONSTRUCTED ILS, AND CHAINAGES ADDED - PITS 18 TO 22	M.T.S	15/03/23
0	CONSTRUCTION ISSUE	M.T.S	08/04/22
Rev	Amendments	Approved	Date



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Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

Checked
D. CAMERON

Date
20/12/21

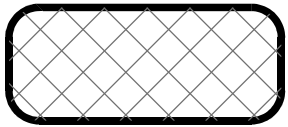
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**REDSTONE ESTATE
STAGE 8
DRAINAGE LONG SECTION
SHEET 1 OF 4
VILLAWOOD PROPERTIES
HUME CITY COUNCIL**

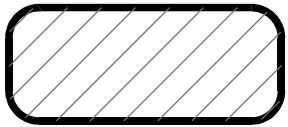
AS CONSTRUCTED

Drg No
305919R11

Rev
1



CLASS 2 CRUSHED ROCK



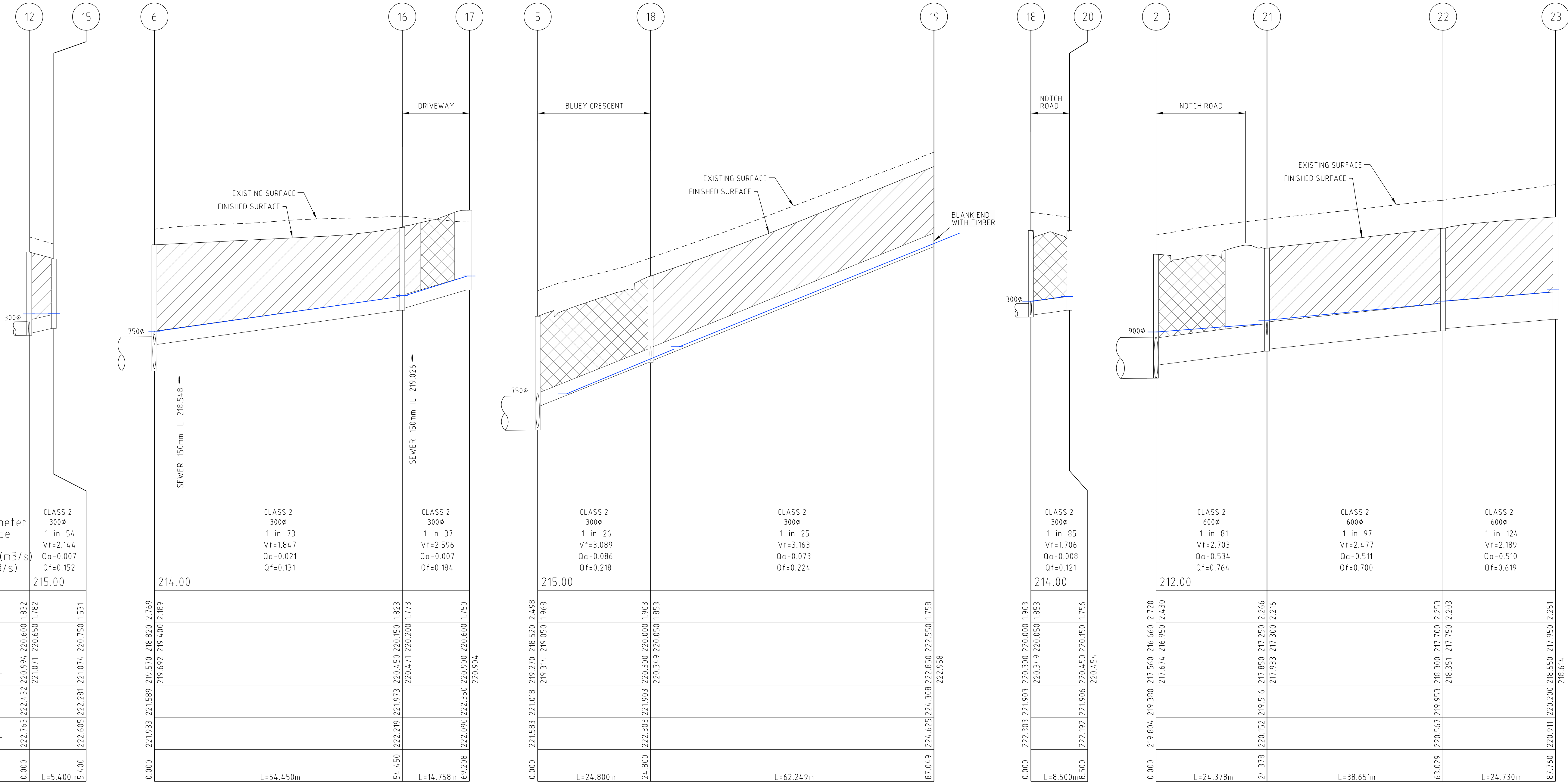
CLASS 3 CRUSHED ROCK

NOTE:

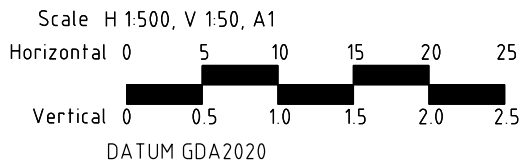
1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE.

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

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



Rev	Amendments	M.T.S	Date
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

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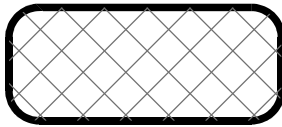
Date
20/12/21

**REDSTONE ESTATE
STAGE 8
DRAINAGE LONG SECTION
SHEET 2 OF 4
VILLAWOOD PROPERTIES
HUME CITY COUNCIL**

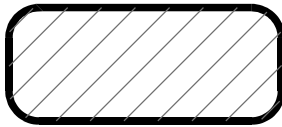
AS CONSTRUCTED

Drg No
305919R12

Rev
0



CLASS 2 CRUSHED ROCK



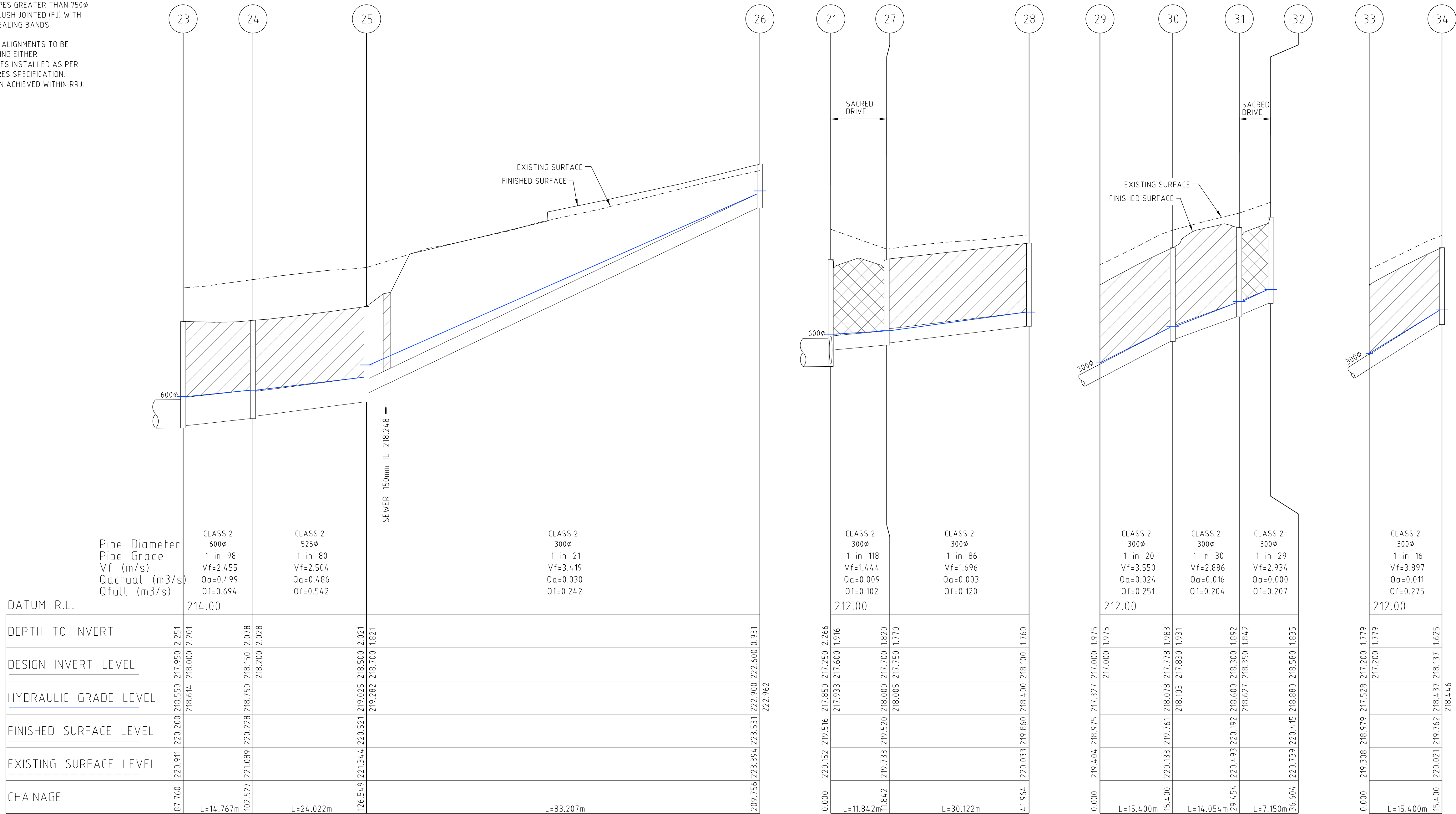
CLASS 3 CRUSHED ROCK

NOTE:

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

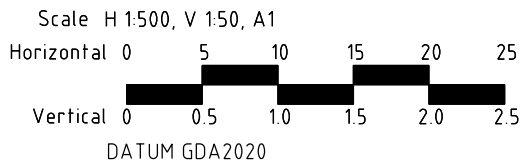
2 DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS

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



Pipe Diameter	CLASS 2 600Ø	CLASS 2 525Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 2 300Ø
Pipe Grade	1 in 98	1 in 80	1 in 21	1 in 118	1 in 86	1 in 20	1 in 16
Vf (m/s)	Vf=2.455	Vf=2.504	Vf=3.419	Vf=1.444	Vf=1.696	Vf=3.550	Vf=3.897
Qactual (m3/s)	Qa=0.499	Qa=0.486	Qa=0.030	Qa=0.009	Qa=0.003	Qa=0.024	Qa=0.011
Qfull (m3/s)	Qf=0.694	Qf=0.542	Qf=0.242	Qf=0.102	Qf=0.120	Qf=0.251	Qf=0.275
DATUM R.L.	214.00			212.00		212.00	212.00
DEPTH TO INVERT	219.025	218.500	218.700	217.850	217.250	217.327	217.200
DESIGN INVERT LEVEL	218.614	218.150	218.200	217.933	217.600	217.000	217.200
HYDRAULIC GRADE LEVEL	218.614	218.150	218.200	217.933	217.600	217.000	217.200
FINISHED SURFACE LEVEL	220.200	220.228	220.521	219.516	219.520	219.761	219.308
EXISTING SURFACE LEVEL	220.911	221.089	221.344	220.152	220.033	220.133	220.021
CHAINAGE	87.760	102.527	126.549	209.756	211.842	215.400	215.400
L=14.767m		L=24.022m	L=83.207m		L=30.122m	L=14.054m	L=7.150m

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



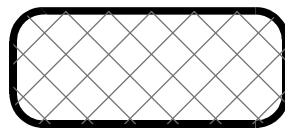
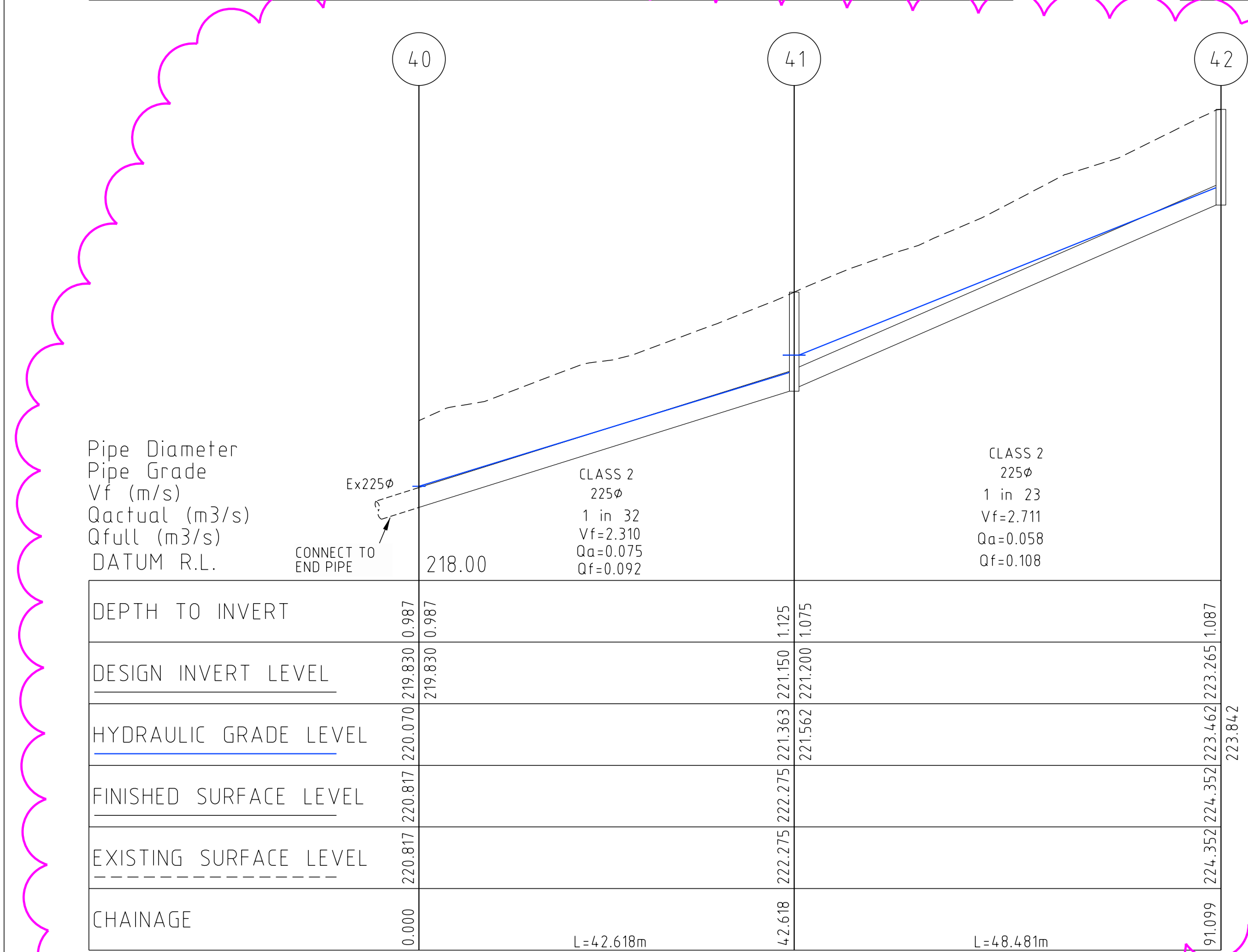
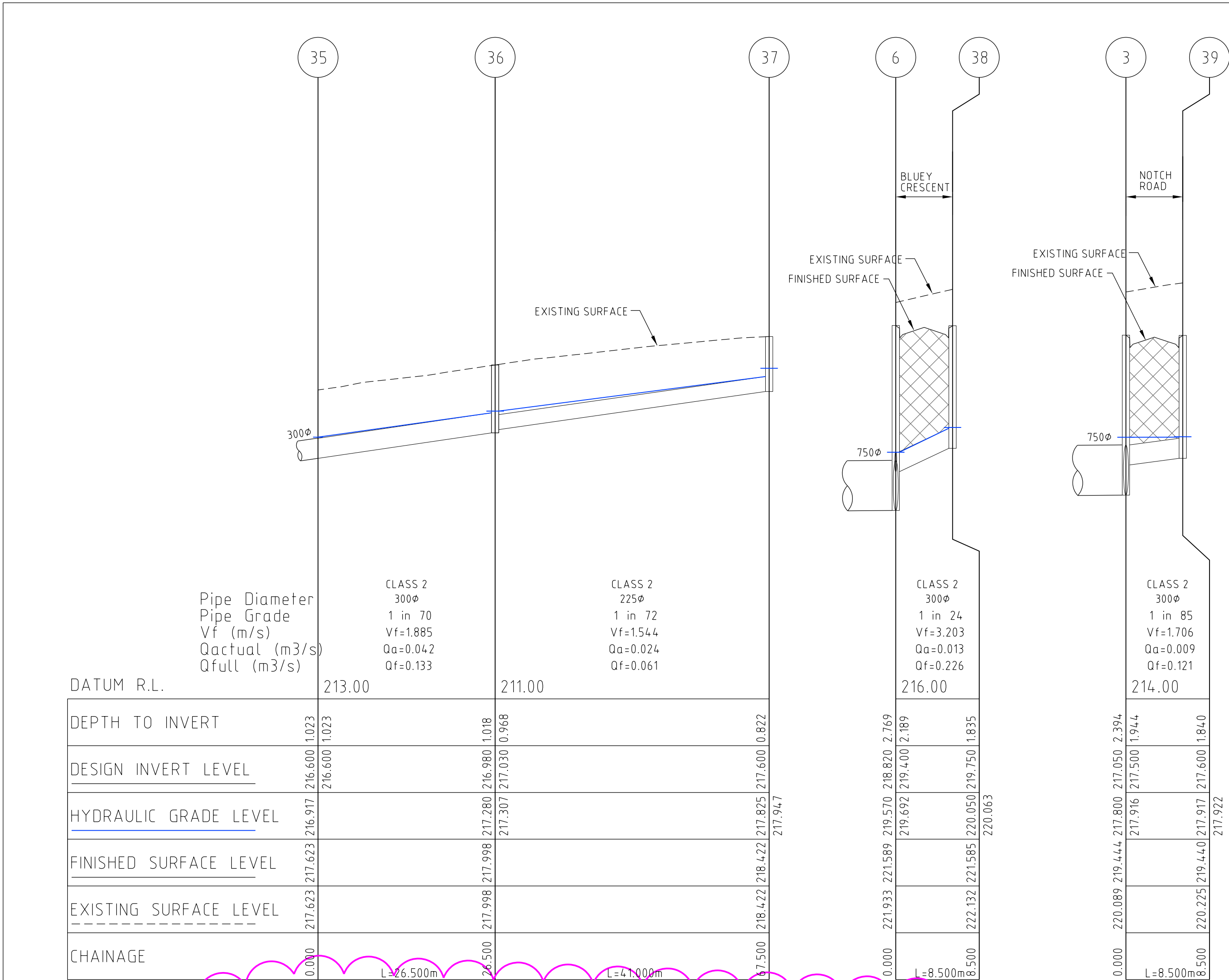
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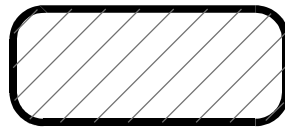
villawood properties
Communities Designed for Living
Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

Redstone.
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Checked
D. CAMERON
Date
20/12/21

**REDSTONE ESTATE
STAGE 8
DRAINAGE LONG SECTION
SHEET 3 OF 4
VILLAWOOD PROPERTIES
HUME CITY COUNCIL**
AS CONSTRUCTED Drg No **305919R13** Rev **0**



CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

NOTE:

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

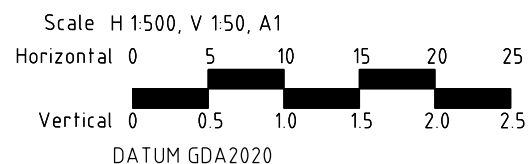
2. DRAINAGE PIPES GREATER THAN 750φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS

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

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING ENDDPIPE			900	216.300			218.883	2.583	CONNECT TO EXISTING ENDDPIPE
2	JUNCTION PIT	1350	1250	750	216.850	900	216.660	219.380	2.720	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
3	SIDE ENTRY PIT GRATED	900	1350	750	217.100	750	217.050	219.444	2.394	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
4	SIDE ENTRY PIT GRATED	900	1200	750	218.050	750	217.950	220.464	2.514	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
5	SIDE ENTRY PIT GRATED	1500	1350	750	218.570	750	218.520	221.018	2.498	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
6	SIDE ENTRY PIT GRATED	900	2000	750	218.870	750	218.820	221.589	2.769	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
7	JUNCTION PIT	1500	1050	750	219.150	750	219.100	221.629	2.529	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
8	JUNCTION PIT	900	1350	675	219.700	750	219.650	221.913	2.263	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
9	SIDE ENTRY PIT GRATED	900	1350	675	220.150	675	220.100	222.436	2.336	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
10	SIDE ENTRY PIT GRATED	900	900	675	221.850	675	221.800	224.138	2.338	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
11	ENDPIPE					675	222.000	224.283	2.283	BLANK END WITH MARINE PLY
12	SIDE ENTRY PIT GRATED	900	600	300	220.650	300	220.600	222.432	1.832	REFER DRAWING - EDCM 601
13	SIDE ENTRY PIT GRATED	900	600	300	222.350	300	222.300	224.135	1.835	REFER DRAWING - EDCM 601
14	ENDPIPE					300	222.600	224.300	1.800	BLANK END WITH MARINE PLY
15	JUNCTION PIT	900	600			300	220.700	222.285	1.585	REFER DRAWING - EDCM 605
16	JUNCTION PIT	900	600	300	220.200	300	220.150	221.973	1.823	REFER DRAWING - EDCM 605
17	JUNCTION PIT	900	600			300	220.600	222.350	1.750	REFER DRAWING - EDCM 605
18	SIDE ENTRY PIT GRATED	900	600	300	220.050	300	220.000	221.903	1.903	REFER DRAWING - EDCM 601
19	ENDPIPE					300	222.550	224.308	1.758	BLANK END WITH MARINE PLY
20	SIDE ENTRY PIT GRATED	900	600			300	220.150	221.906	1.756	REFER DRAWING - EDCM 601
21	SIDE ENTRY PIT GRATED	900	900	600	217.300	600	217.250	219.516	2.266	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
22	SIDE ENTRY PIT GRATED	900	900	600	217.750	600	217.700	219.953	2.253	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
23	JUNCTION PIT	900	900	600	218.000	600	217.950	220.200	2.251	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
24	SIDE ENTRY PIT GRATED	900	900	525	218.200	600	218.150	220.228	2.078	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING AS PER EDCM 607)
25	JUNCTION PIT	900	900	300	218.700	525	218.500	220.521	2.021	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
26	JUNCTION PIT	900	600			300	222.600	223.531	0.931	REFER DRAWING - EDCM 605
27	SIDE ENTRY PIT GRATED	900	600	300	217.750	300	217.700	219.520	1.820	REFER DRAWING - EDCM 601
28	JUNCTION PIT	900	600			300	218.100	219.860	1.760	REFER DRAWING - EDCM 605
29	EXISTING ENDDPIPE			300	217.000			218.975	1.975	CONNECT TO EXISTING ENDDPIPE
30	SIDE ENTRY PIT GRATED	900	600	300	217.830	300	217.778	219.761	1.983	REFER DRAWING - EDCM 601
31	SIDE ENTRY PIT GRATED	900	600	300	218.350	300	218.300	220.192	1.892	REFER DRAWING - EDCM 601
32	JUNCTION PIT	900	600			300	218.580	220.406	1.826	REFER DRAWING - EDCM 605
33	EXISTING ENDDPIPE			300	217.200			218.979	1.779	CONNECT TO EXISTING ENDDPIPE
34	SIDE ENTRY PIT GRATED	900	600			300	218.137	219.762	1.625	REFER DRAWING - EDCM 601
35	EXISTING ENDDPIPE			300	216.600			217.623	1.023	CONNECT TO EXISTING ENDDPIPE
36	JUNCTION PIT	900	600	225	217.030	300	216.980	217.998	1.018	REFER DRAWING - EDCM 605
37	JUNCTION PIT	900	600			225	217.600	218.422	0.822	REFER DRAWING - EDCM 605
38	SIDE ENTRY PIT GRATED	900	600			300	219.750	221.585	1.835	REFER DRAWING - EDCM 601
39	SIDE ENTRY PIT GRATED	900	600			300	217.600	219.440	1.840	REFER DRAWING - EDCM 601
40	ENDPIPE			225	219.830			220.817	0.987	CONNECT TO EXISTING ENDDPIPE
41	JUNCTION PIT	900	600	225	221.200	225	221.150	222.275	1.125	REFER DRAWING - EDCM 605
42	JUNCTION PIT	900	600		223.320	225	223.265	224.352	1.087	REFER DRAWING - EDCM 605

Rev	Amendments	Approved	Date
1	PITS 40 / 41 / 42 ADDED	M.T.S	03/11/22
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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Communities Designed for Living

Designed
R. WEINBER
Authorised
M. TOOMER-SMITH

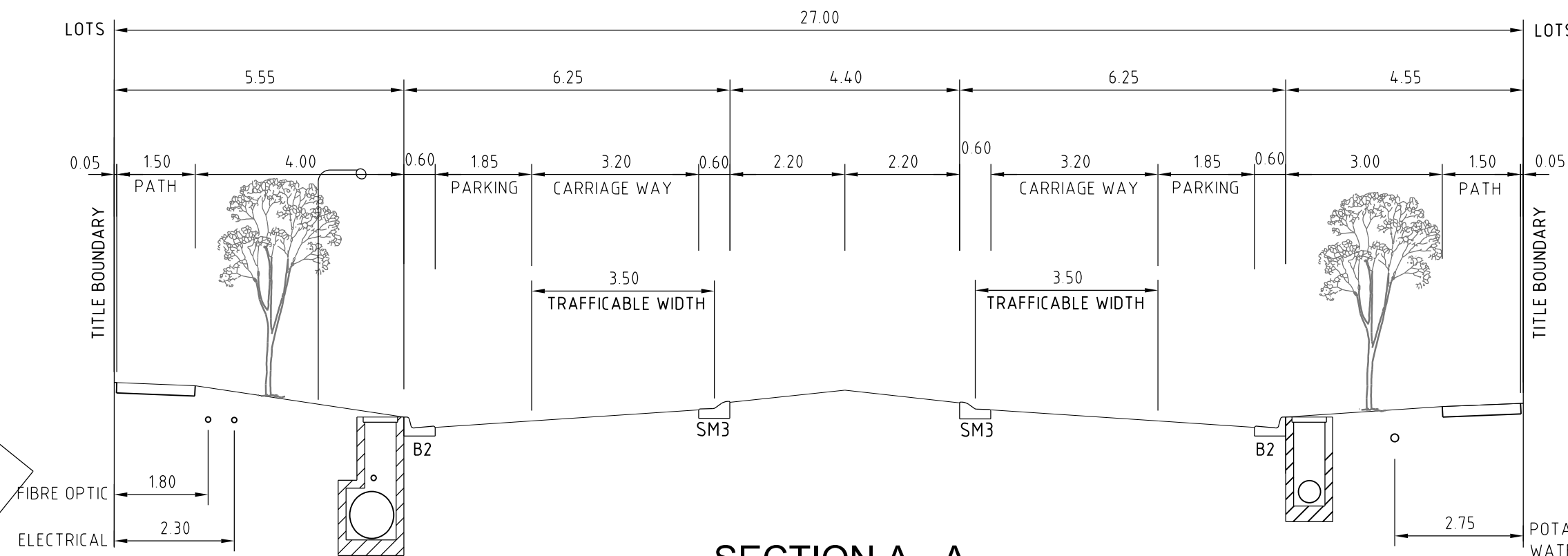
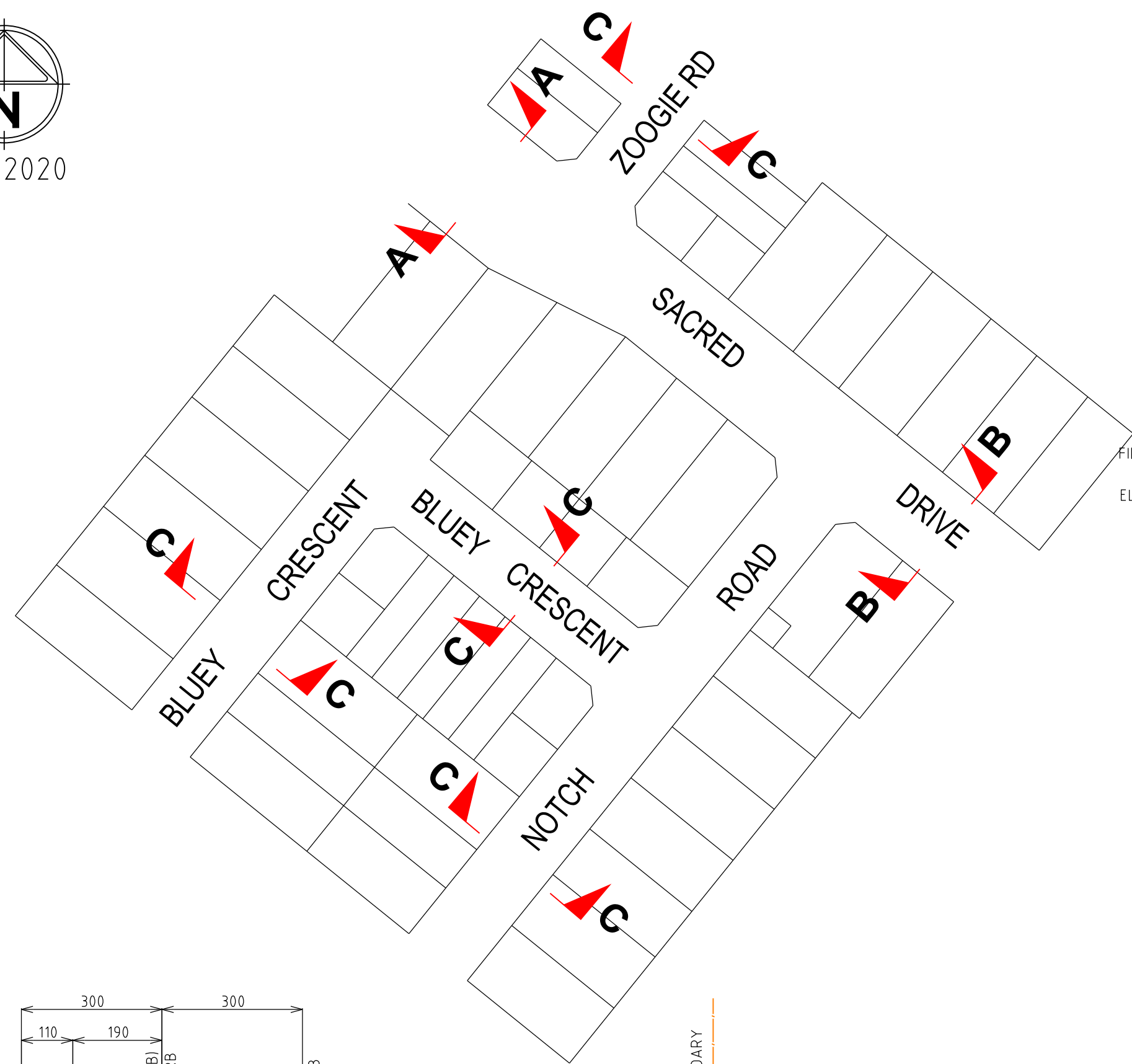
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D. CAMERON
Date
20/12/21

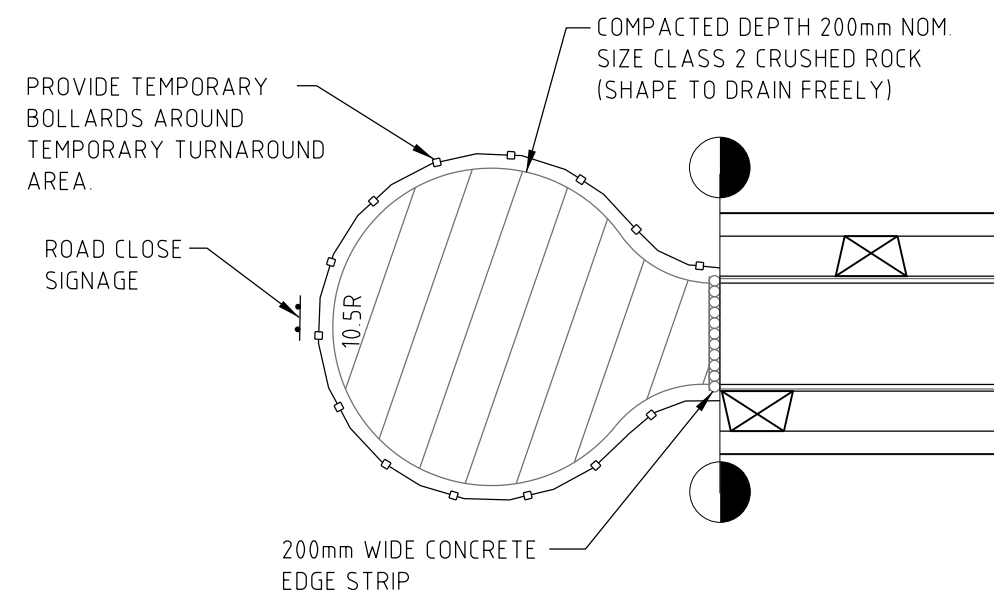
REDSTONE ESTATE
STAGE 6
DRAINAGE LONG SECTION AND PIT SCHEDULE
SHEET 4 OF 4
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED
Drg No
305919R14

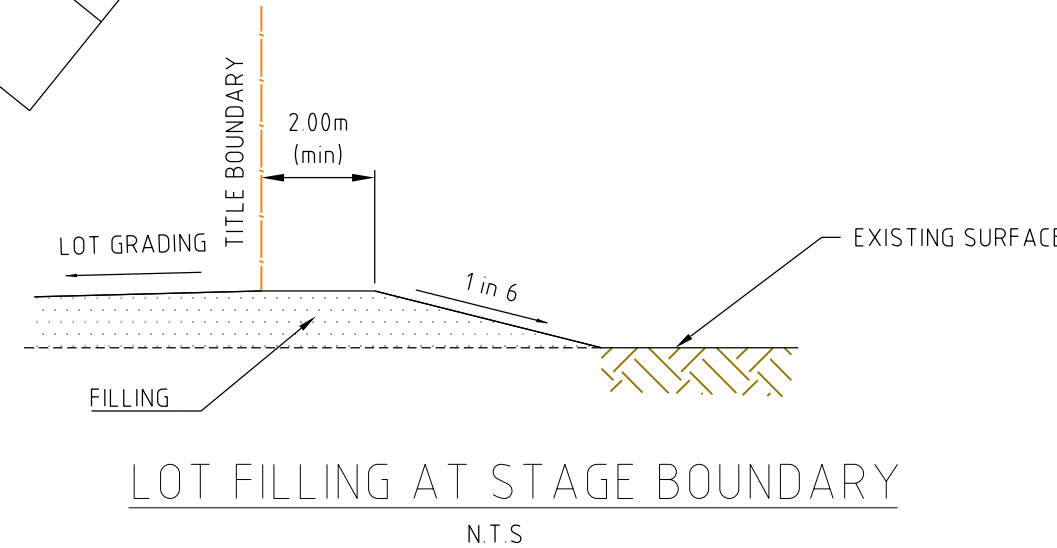
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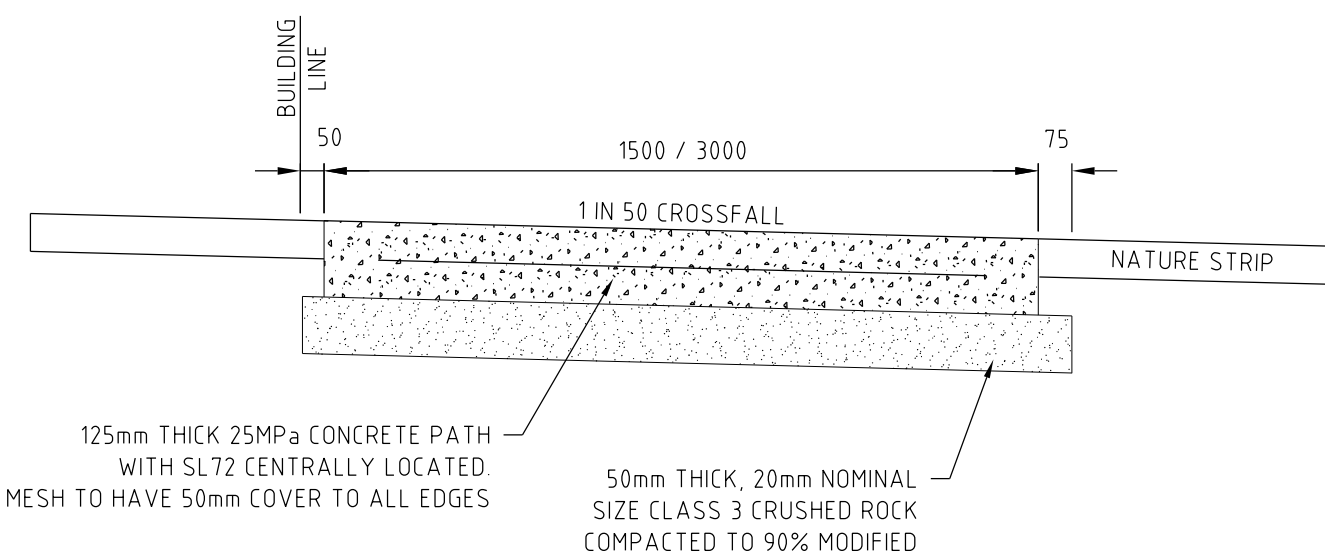
SECTION A - A
TYPICAL 27.00m ROAD RESERVE
SACRED DRIVE



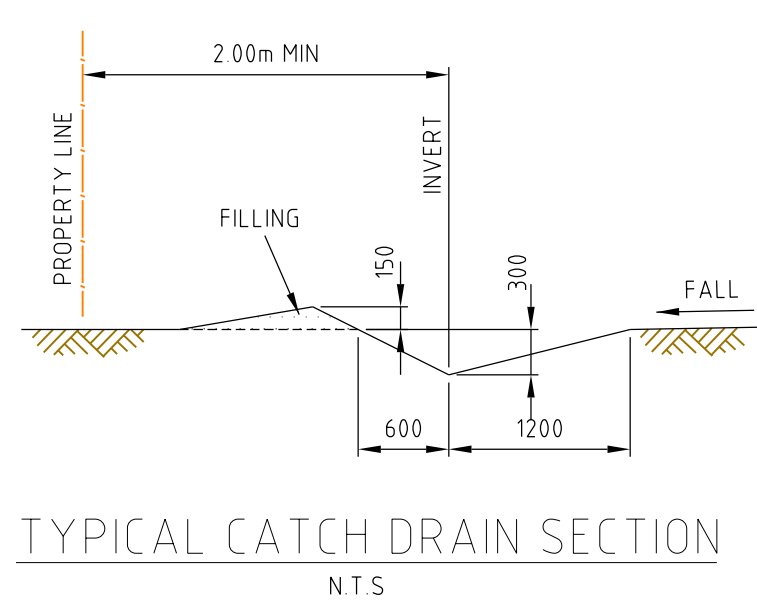
TEMPORARY TURNING AREA DETAIL



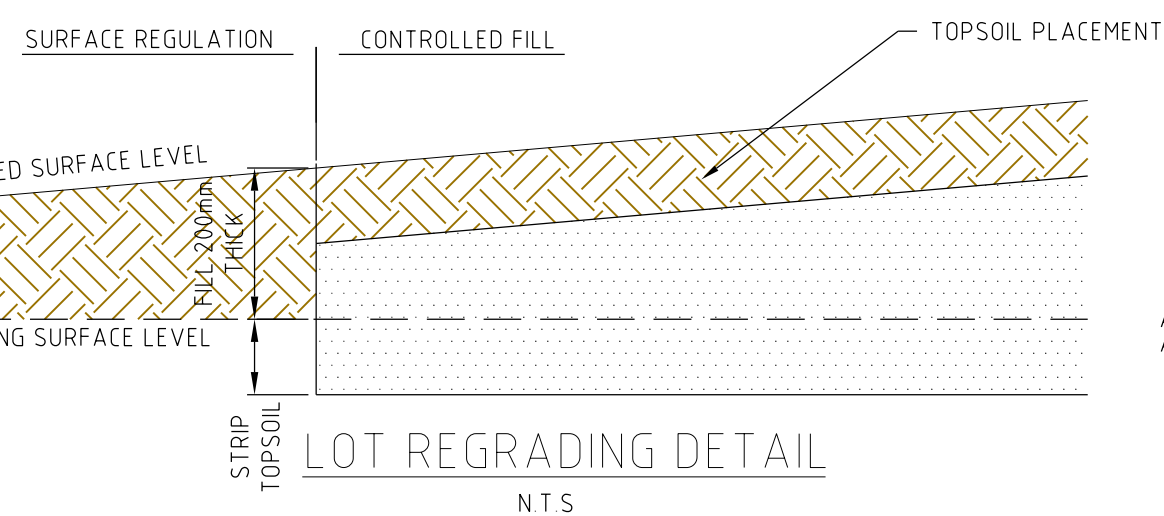
LOT FILLING AT STAGE BOUNDARY



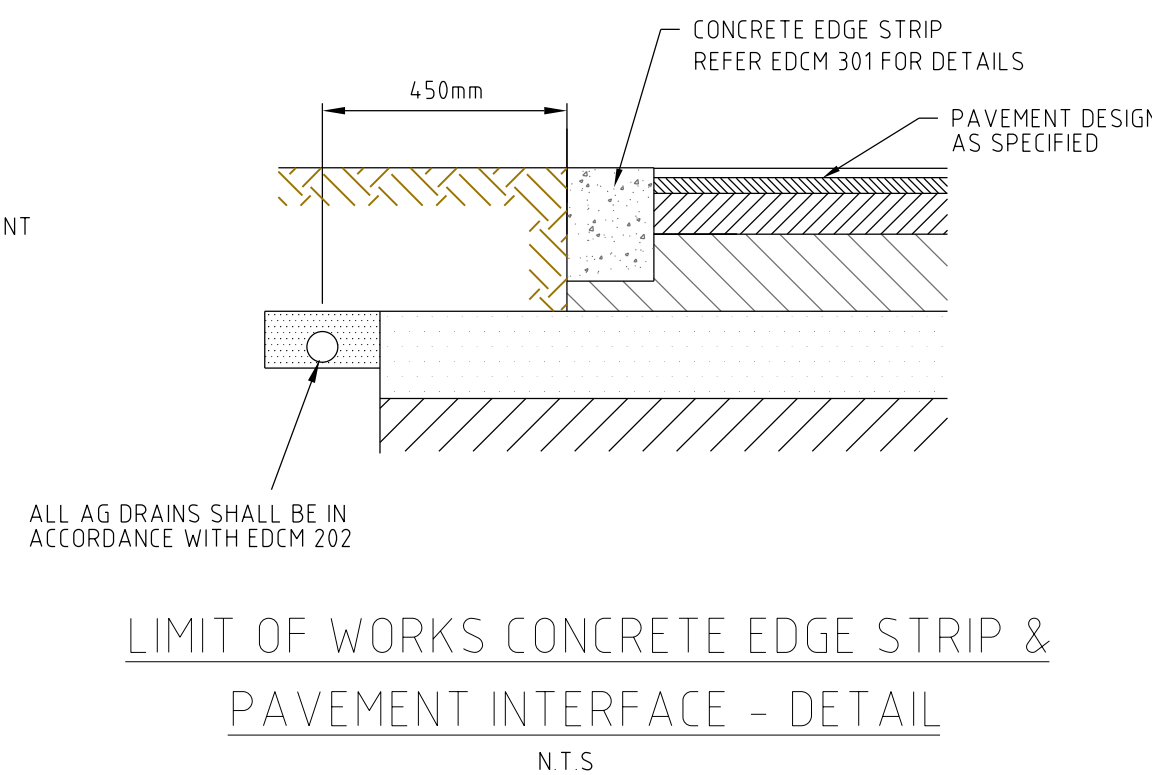
TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION



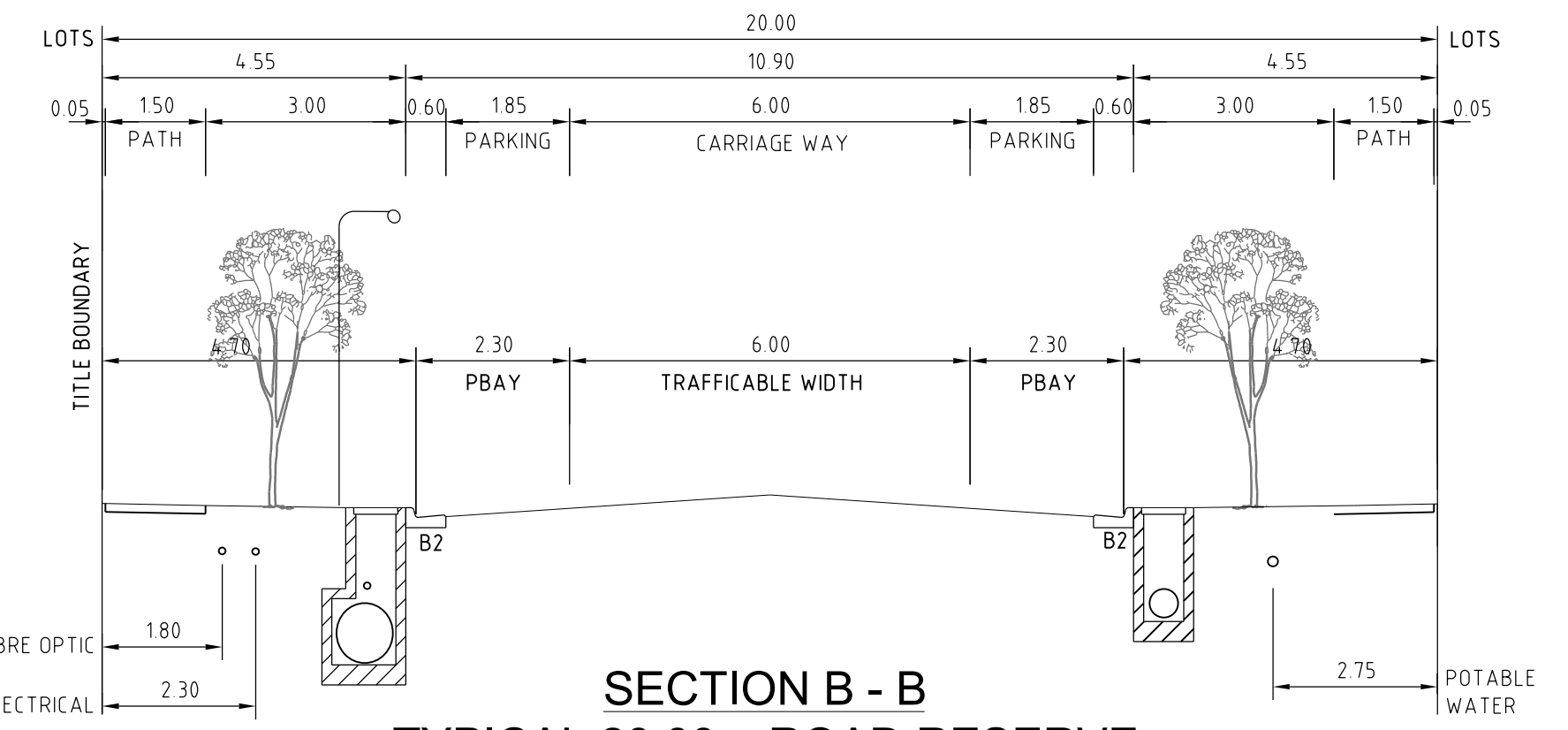
TYPICAL CATCH DRAIN SECTION



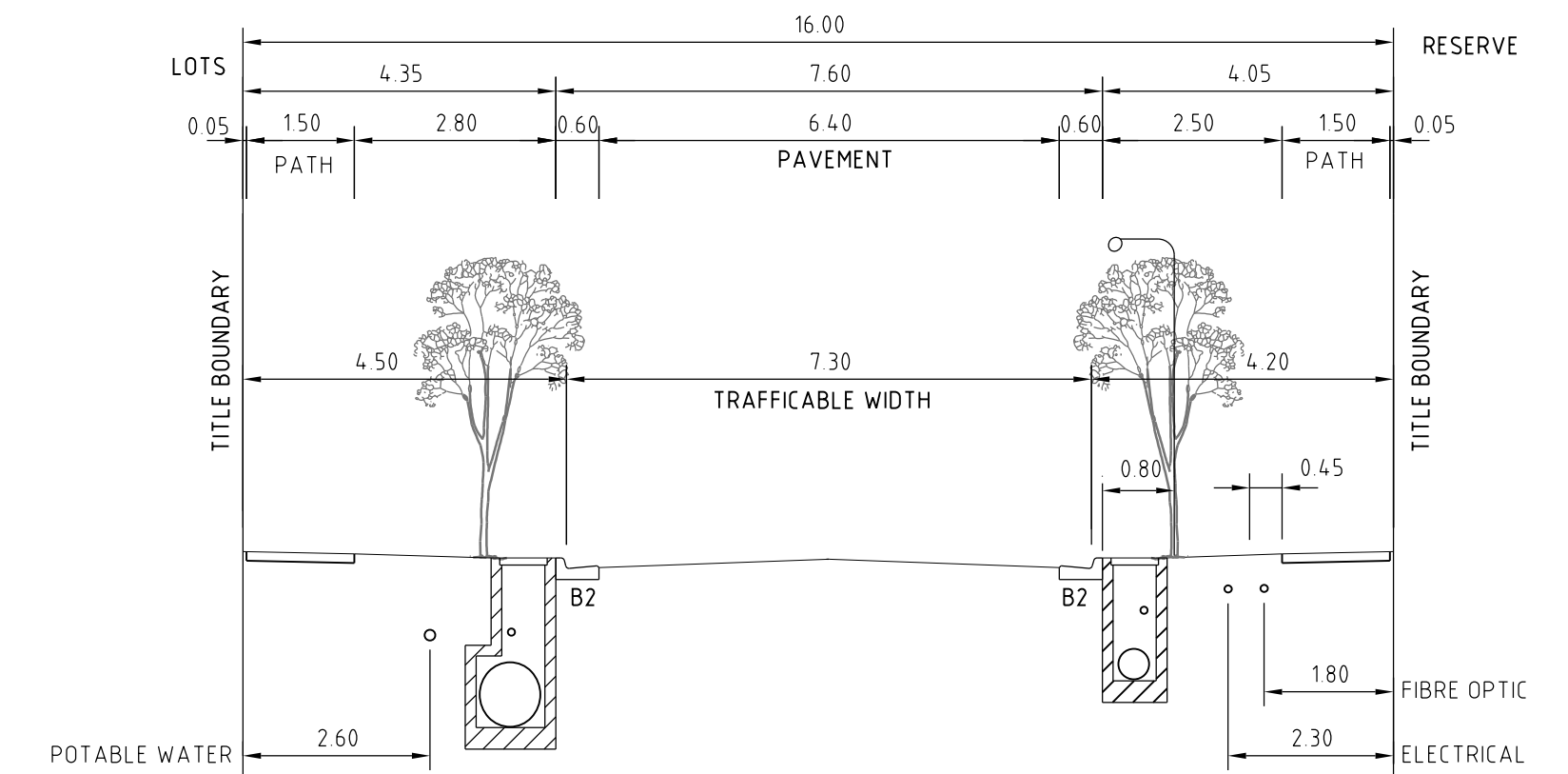
LOT REGRADING DETAIL



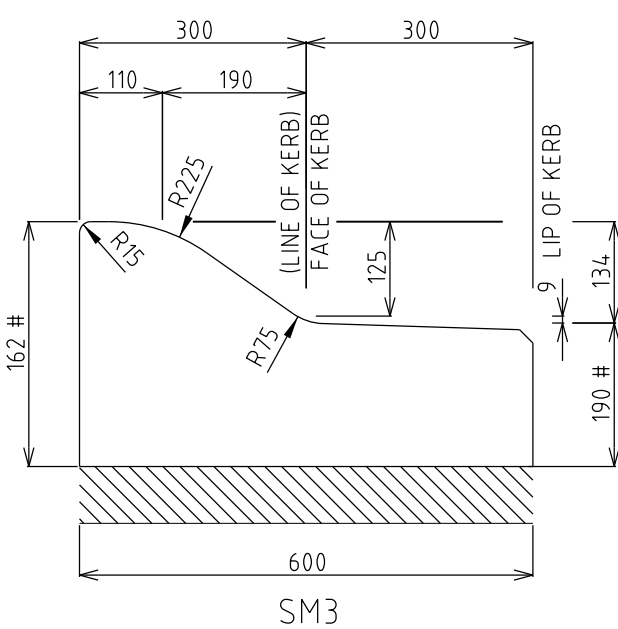
LIMIT OF WORKS CONCRETE EDGE STRIP &
PAVEMENT INTERFACE - DETAIL



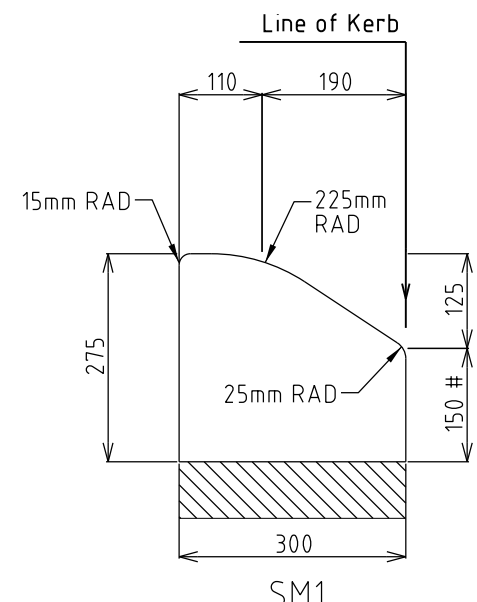
SECTION B - B
TYPICAL 20.00m ROAD RESERVE
SACRED DRIVE



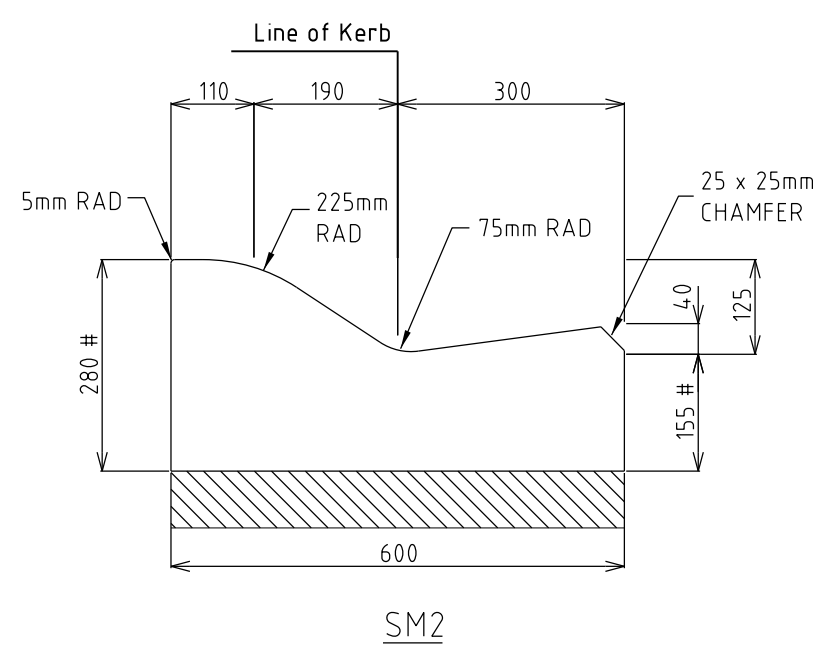
SECTION C - C
TYPICAL 16.00m ROAD RESERVE
ZOOGIE ROAD, NOTCH ROAD & BLUEY CRESCENT



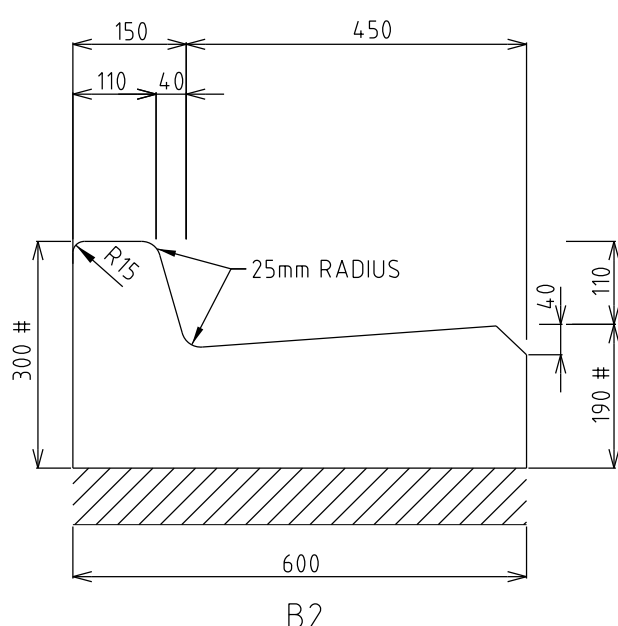
EDGE STRIP



SM1



SM2



B2

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

Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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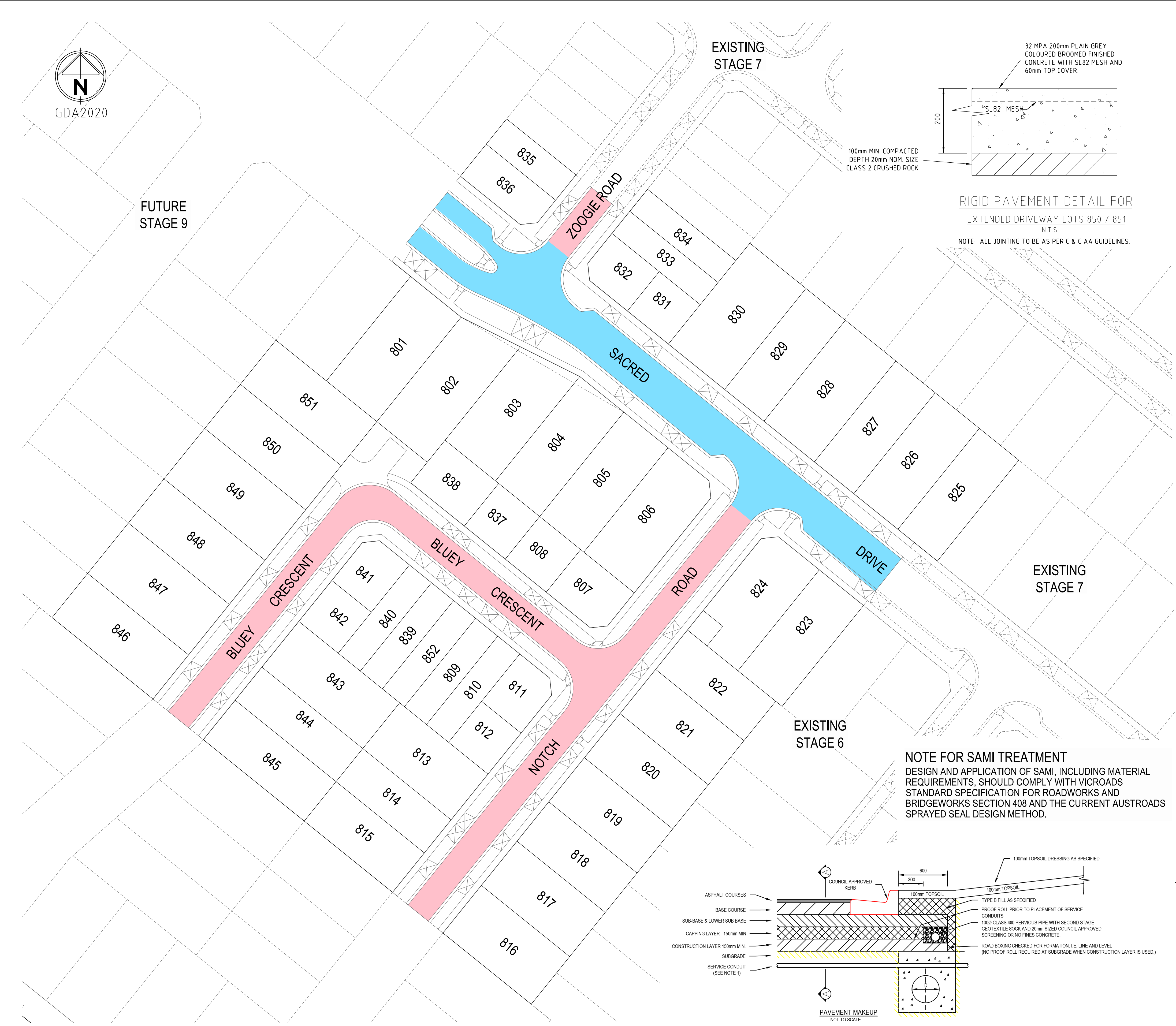
Designed
R. WEINBER
Authorised
M. TOOMER-SMITH



Checked
D CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 8
TYPICAL CROSS SECTIONS
AND TYPICAL DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No 305919R15 Rev 0



DESIGN PAVEMENT PROFILE FOR AREA 2

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 2
WEARING COURSE	Size 10mm Type L Asphalt with a C320 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C320 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (Standard Quality)	20mm nominal size Class 2 FCR, compacted to at least 98% Modified Dry Density Ratio with a mean value of at least 100% Modified Dry Density Ratio and within 1% of the modified Optimum Moisture Content	130
UPPER PAVEMENT TOTAL		200
SUB-BASE COURSE (Standard Quality)	20mm nominal size Class 3 FCR, compacted to at least 95% Modified Dry Density Ratio with a mean value of at least 98% Modified Dry Density Ratio and within 1% of the modified Optimum Moisture Content	100
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	160
CONSTRUCTION LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	150
TOTAL PAVEMENT DEPTH		610
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR ≥ 3.0%) within 2% of the Standard Optimum Moisture Content	

DESIGN PAVEMENT PROFILE FOR AREA 4

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 4
WEARING COURSE	Size 14mm Type N Asphalt with a C320 binder	40
STRUCTURAL COURSE	Size 14mm Type HP Asphalt with a A10E binder	40
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE (High Quality)	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	110
UPPER PAVEMENT TOTAL		200
SUB-BASE COURSE (High Quality)	20mm nominal size Class 3 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	160
CAPPING LAYER	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	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%	150
TOTAL PAVEMENT DEPTH		710
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR ≥ 3.0%) within 2% of the Standard Optimum Moisture Content	

PAVEMENT DETAILS

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

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

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0	CONSTRUCTION ISSUE	M.T.S	08/04/22
Rev	Amendments	Approved	Date



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Designed
R. WEINBER
Authorised
M. TOOMER-SMITH



Checked
D CAMERON
Date
20/12/21

REDSTONE ESTATE
STAGE 8
PAVEMENT DETAILS

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No
305919R16

Rev
0



LEGEND

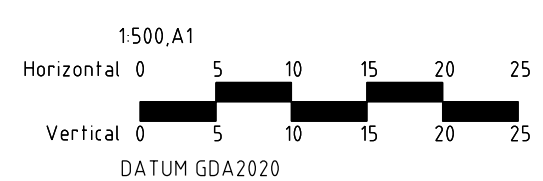
- 1 STREET NAME
 - 2 ROAD CLOSED
 - 3
 - 4 D4-1-2 (L)
- STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD408 & SD412, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
- G9-20
- D4-5

- TGSI KERB RAMP
 - TGSI DIRECTIONAL
 - 1-WAY RRP (5m SPACING)
- INSTALL ONLY POLYPLASTIC OR METAL MECHANICALLY FIXED TACTILE MARKERS
- HAZARD / DIRECTIONAL TGSIS SHOW INDICATIVELY. FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 403. TGSIS SHALL CONFORM TO AS1428.4

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

Rev	Amendments	Approved	Date
2	TEMP TURN ZONES REMOVED BLUEY CRES, NOTCH RD. ROAD CLOSED SIGN ADDED.	M.T.S	20/03/23
1	HDRAIN DIMENSION ADDED 810 TO 840	M.T.S	17/11/22
0	CONSTRUCTION ISSUE	M.T.S	08/04/22



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villawood properties

Communities Designed for Living

Designed
R. WEINBER

Authorised
M. TOOMER-SMITH

Redstone.

Your world awaits

Checked
D CAMERON

Date
20/12/21

REDSTONE ESTATE

STAGE 8

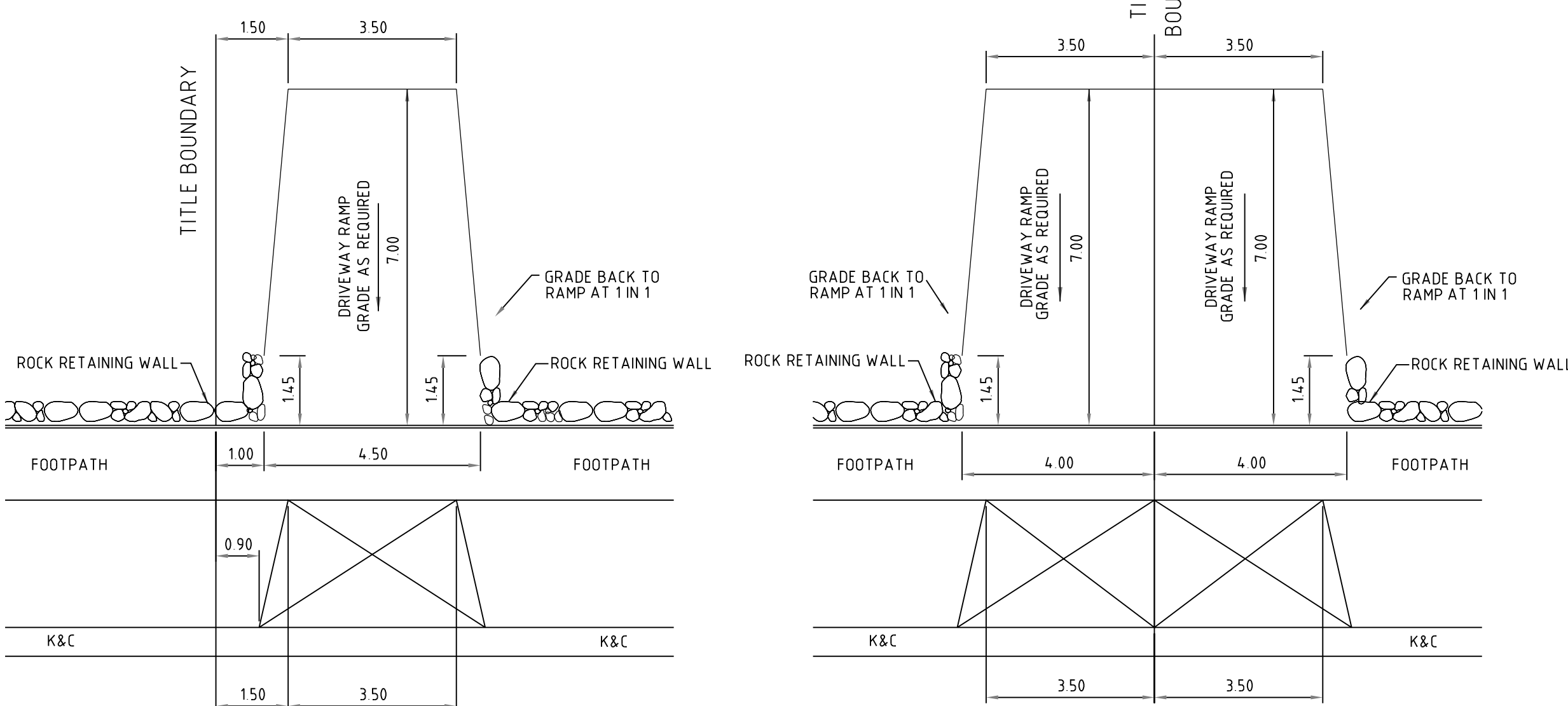
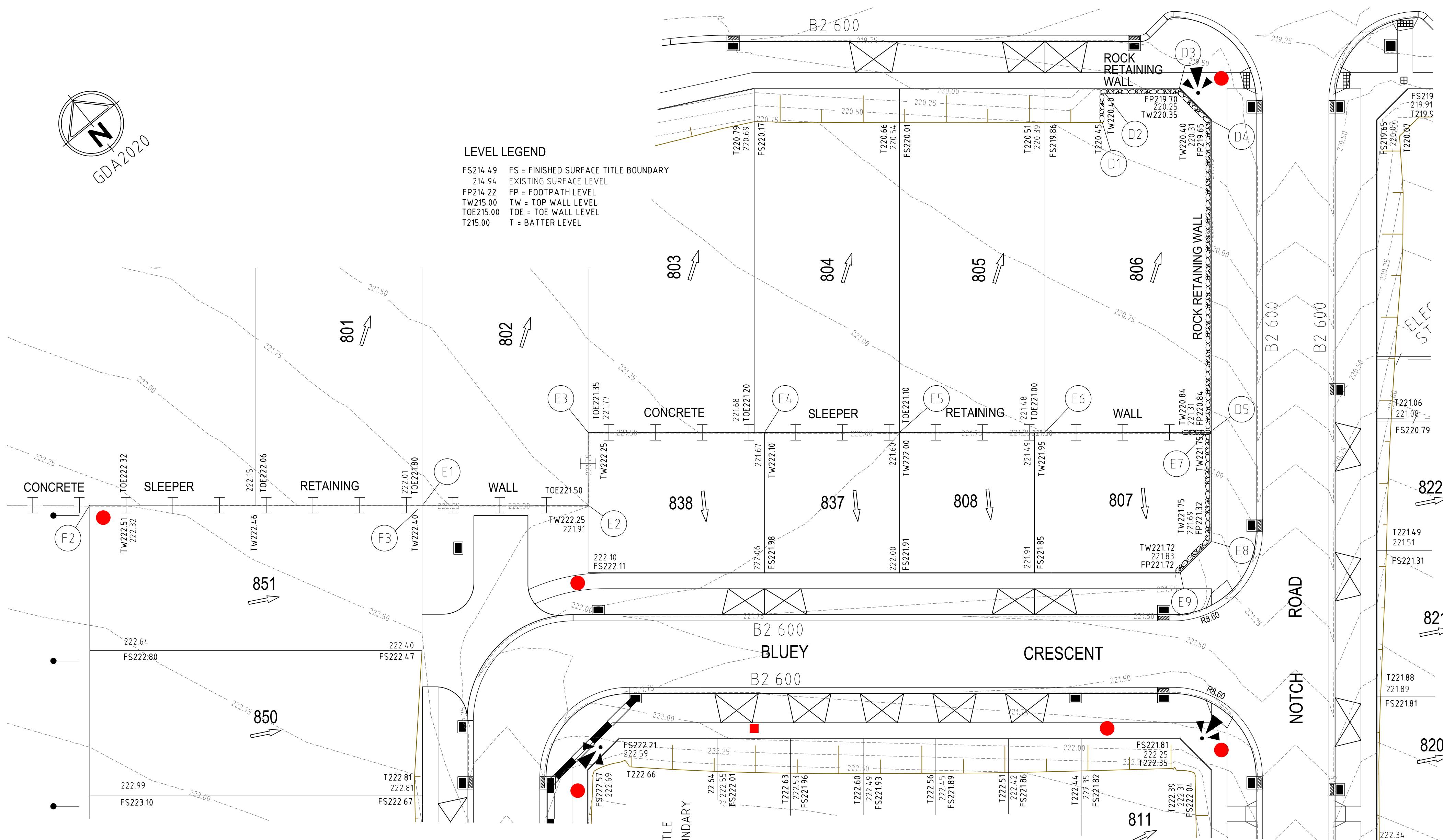
SIGNAGE, LINEMARKING & CARPARKING PLAN

VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305919R17** Rev **2**



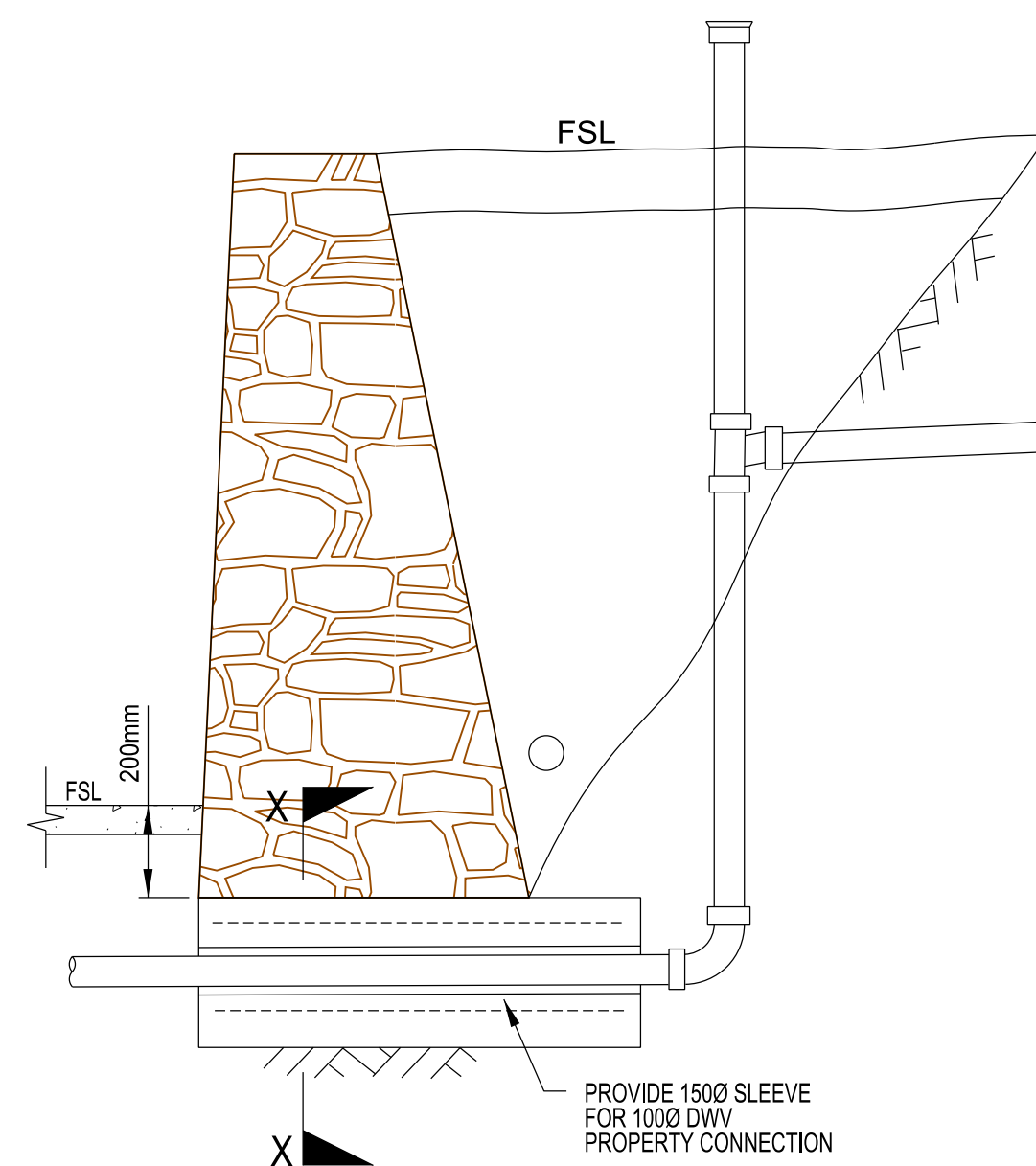
LEVEL LEGEND
FS214.49 FS = FINISHED SURFACE TITLE BOUNDARY
214.94 EXISTING SURFACE LEVEL
FP214.22 FP = FOOTPATH LEVEL
TW215.00 TW = TOP WALL LEVEL
TOE215.00 TOE = TOE WALL LEVEL
T215.00 T = BATTER LEVEL



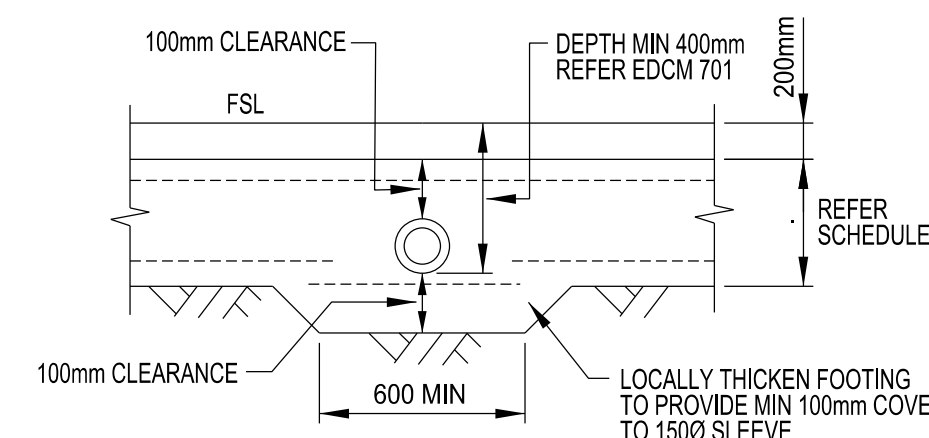
NOTE:
THE RETAINING WALL PLAN IS NOT PART OF THE SUBDIVISIONAL WORKS OR APPROVAL IT IS SUBJECT TO SEPARATE APPROVAL, THIS SHEET IS SUPPLEMENTARY TO THE ENGINEERING DRAWINGS.

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

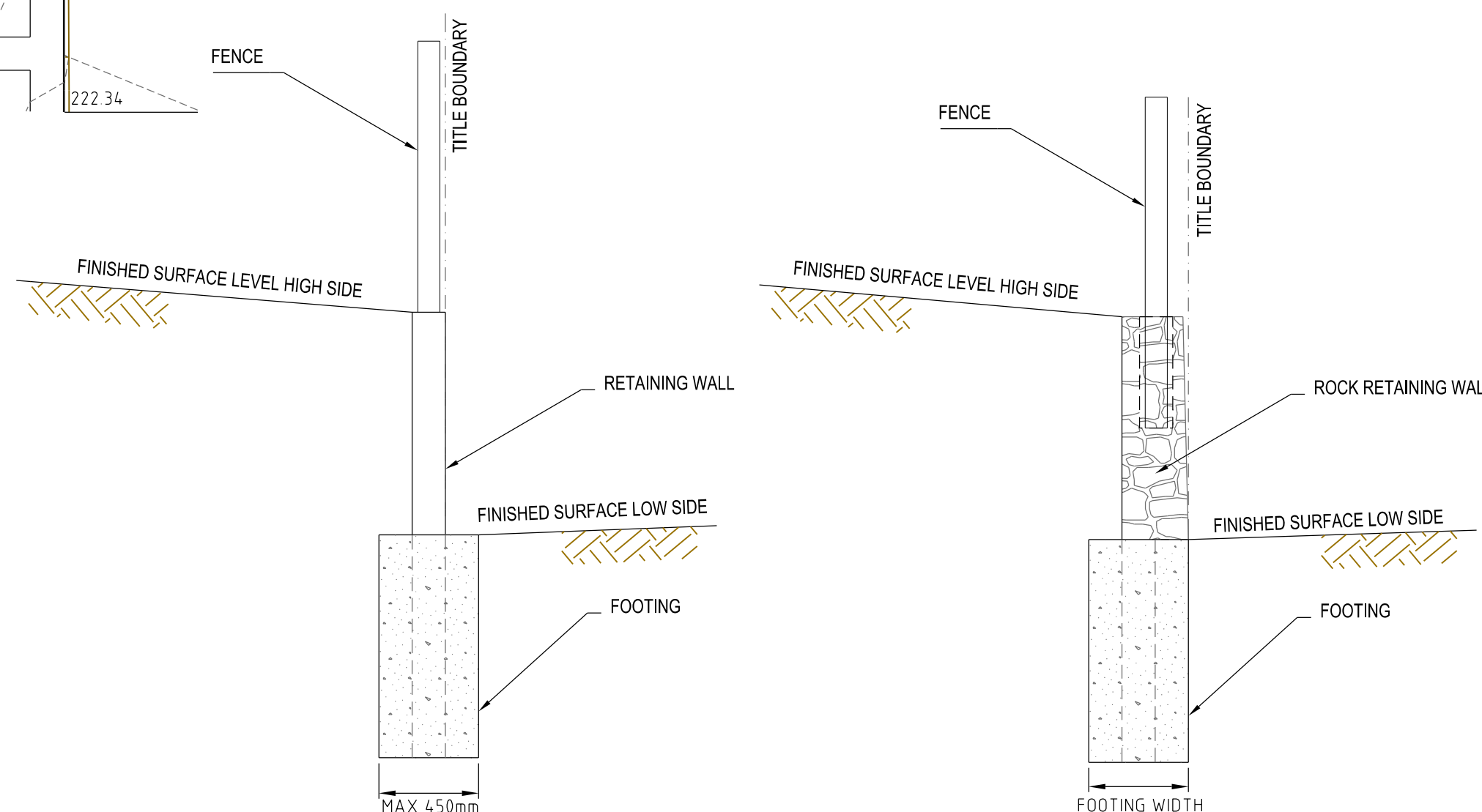
NOTE:
AG DRAINS BEHIND RETAINING WALLS TO DISCHARGE INTO PROPERTY DRAINAGE CONNECTIONS.



DRAINAGE CONNECTION UNDER ROCK RETAINING WALL
NTS



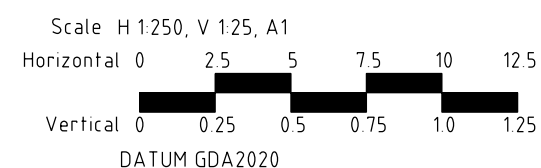
SECTION X-X
NTS



SLEEPER RETAINING WALL TYPICAL DETAIL
NTS

ROCK RETAINING WALL TYPICAL DETAIL
NTS

0	CONSTRUCTION ISSUE	M.T.S	08/04/22
Rev	Amendments	Approved	Date



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Authorised
M. TOOMER-SMITH

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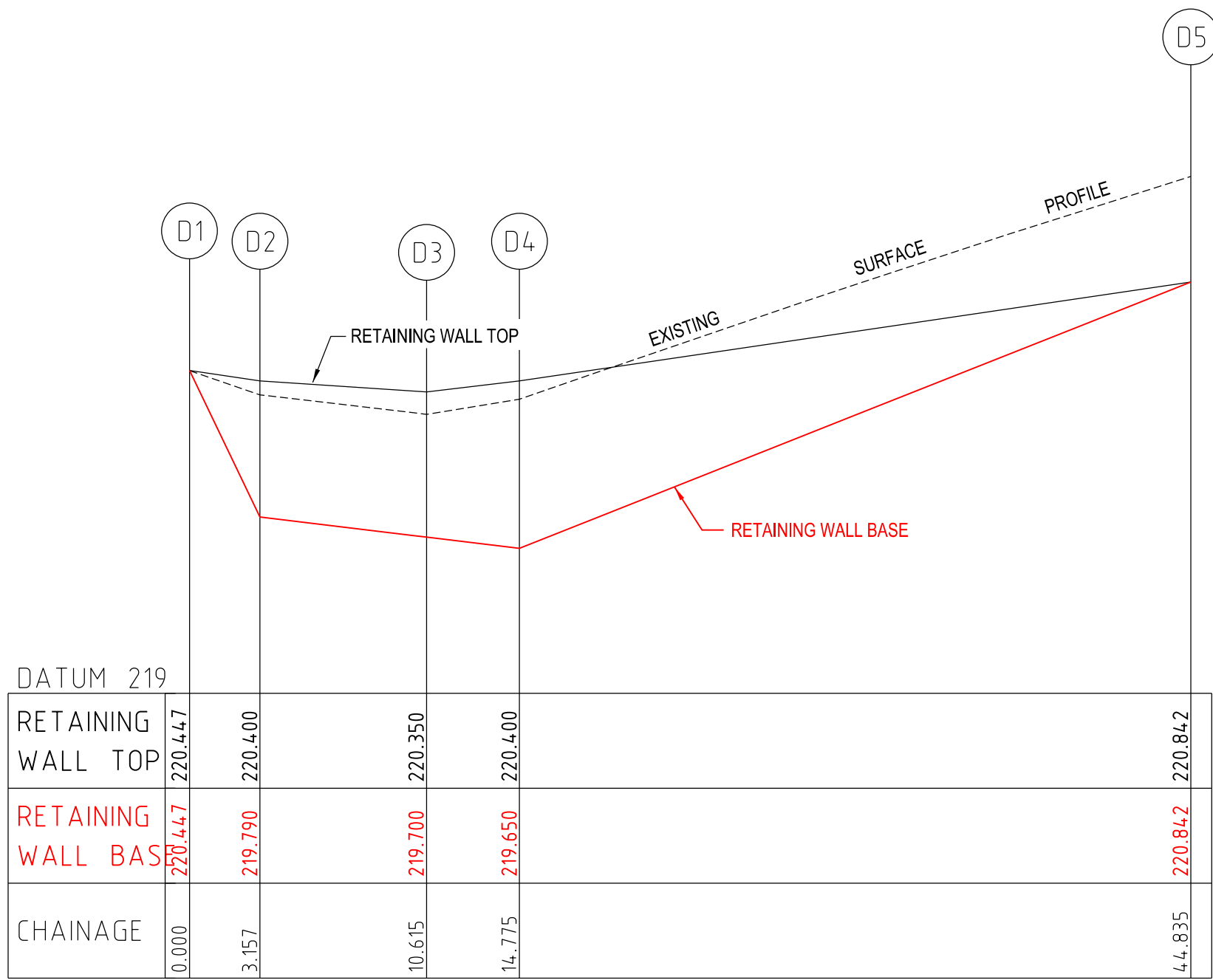
Checked
D. CAMERON
Date
20/12/21

**REDSTONE ESTATE
STAGE 8
RETAINING WALL DETAILS SHEET 1**

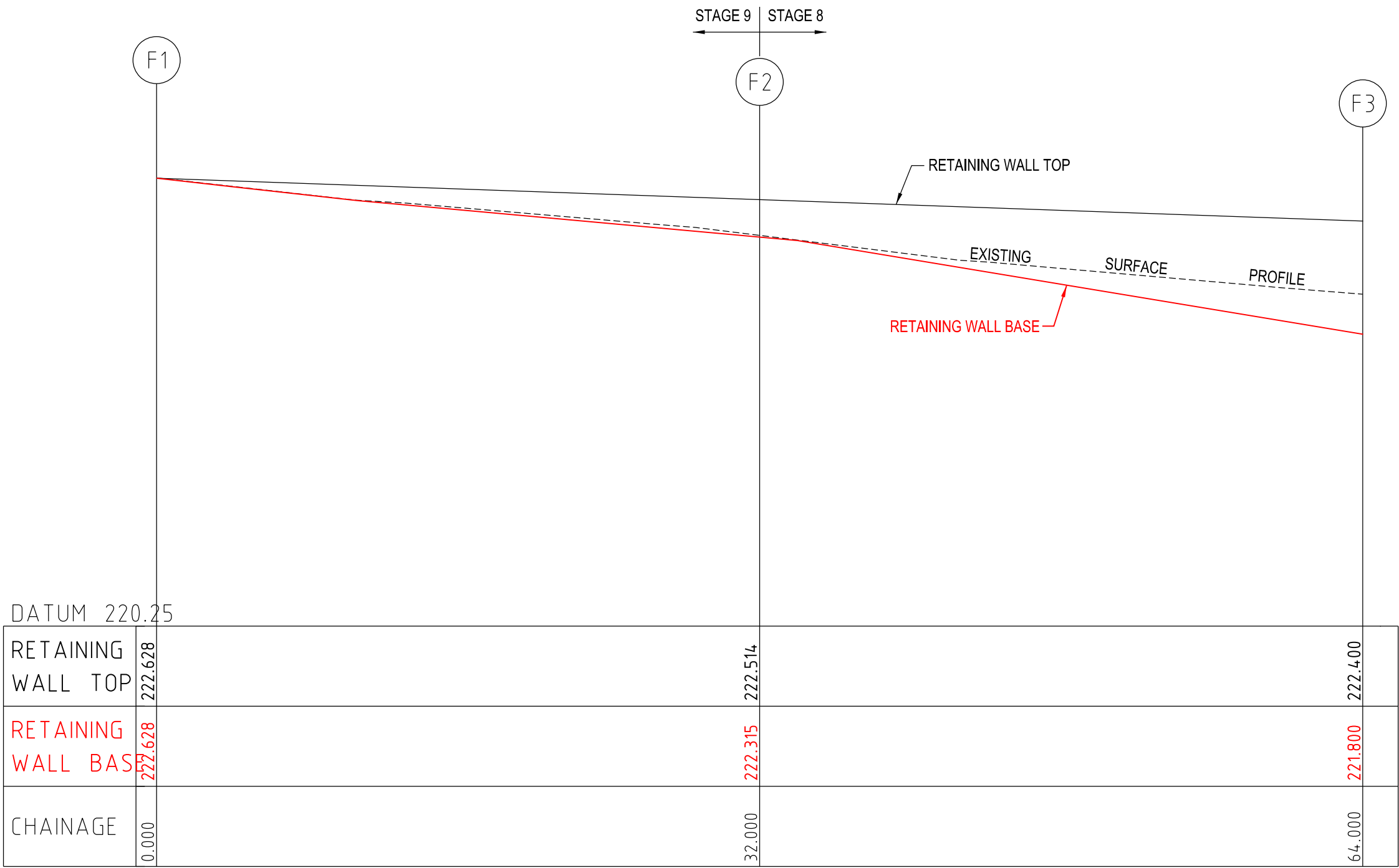
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No
305919R18

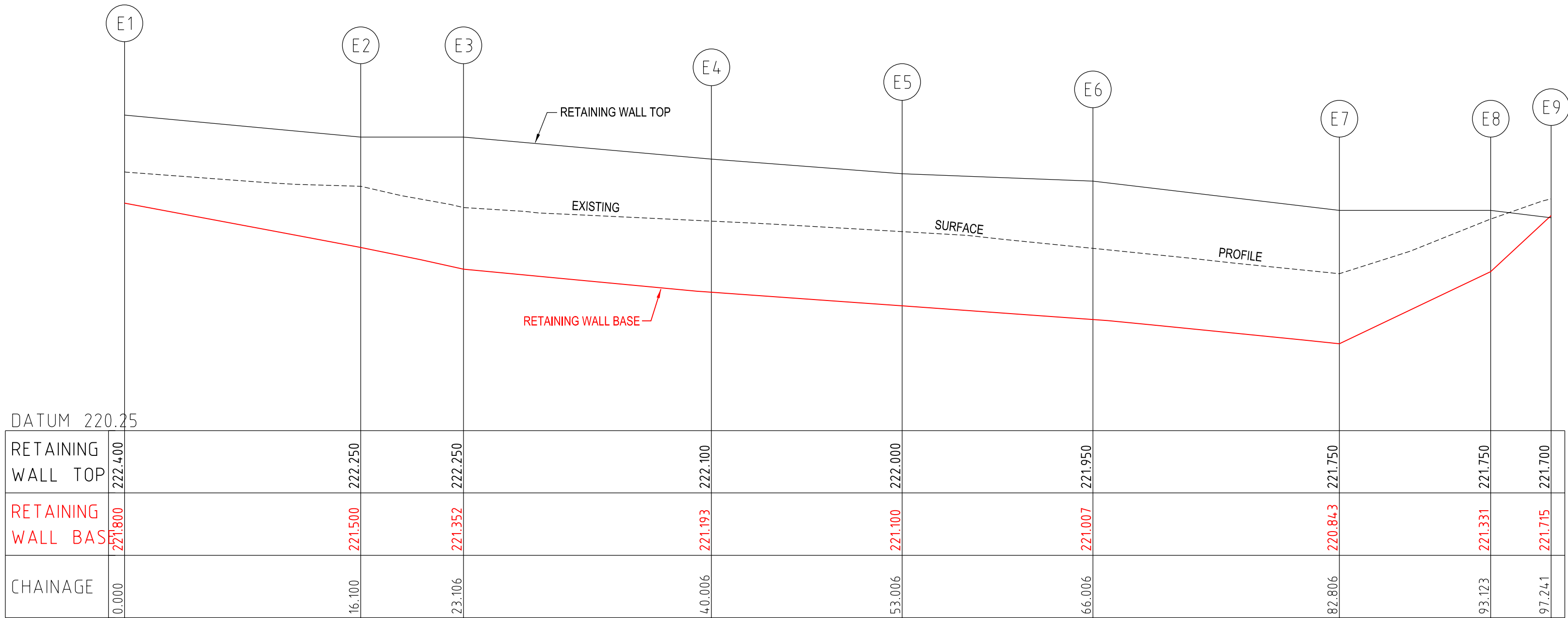
Rev
0



RETAINING WALL D
Hor250
Ver25

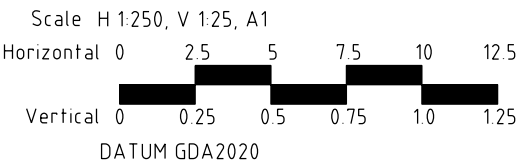


RETAINING WALL F
Hor250
Ver25



RETAINING WALL E
Hor250
Ver25

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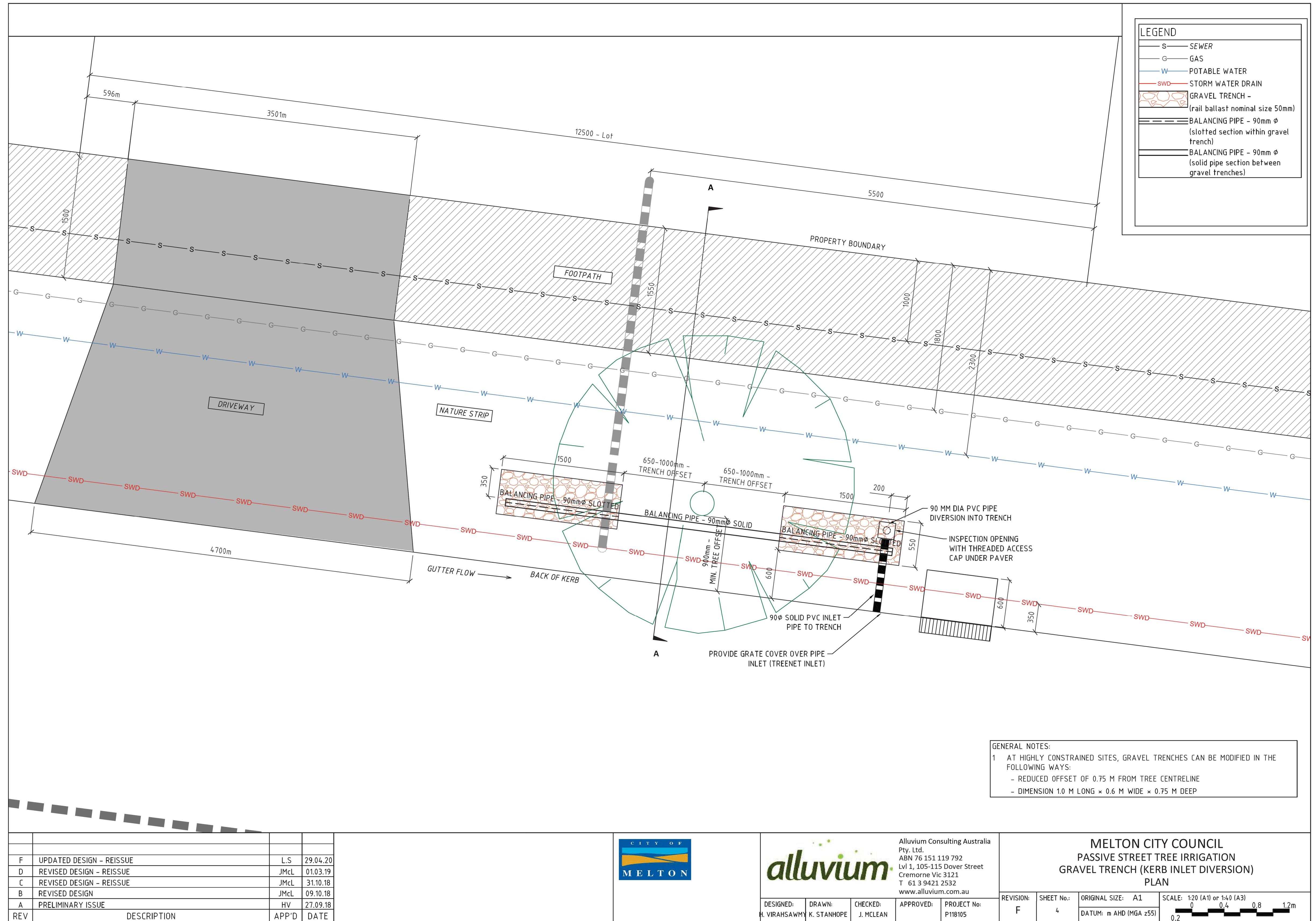
Checked
D. CAMERON

Date
20/12/21

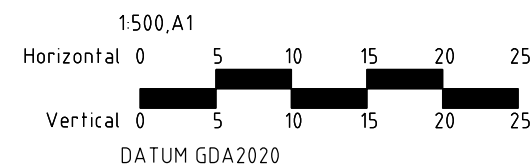
REDSTONE ESTATE
STAGE 8
RETAINING WALL DETAILS SHEET 2

VILLAWOOD PROPERTIES
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REDSTONE ESTATE
STAGE 8
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 1
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED

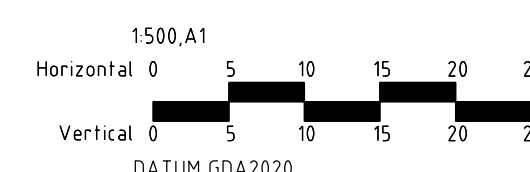
Drg No
305919R20

Rev
0

TOP OF GRAVEL TRENCH TO BE LINED WITH NON-WOVEN GEOTEXTILE MATERIAL
AS SHOWN TO PREVENT FINE MIGRATION INTO THE TRENCH
PASSIVE IRRIGATION PIPES AND FITTINGS TO BE 90 MM DIAMETER PVC SEWER
CLASS
ALL PVC JOINTS TO BE SEALED WITH SOLVENT CEMENT
ALL GRASSED AREAS TO BE TOP DRESSED WITH 100 MM TOPSOIL AND SEEDED
AS SPECIFIED
SERVICE DEPTHS AND LOCATIONS ARE INDICATIVE ONLY
WHERE THE VERGE IS LESS THAN 4.2m (TYPICAL) A SPECIFIC DETAIL SHALL BE
SHOWN ON THE ENGINEERING DRAWINGS THAT RETAINS THE PRINCIPALS AND

[illegible]

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REDSTONE ESTATE
STAGE 8
ROAD AND DRAINAGE
PASSIVE IRRIGATION TYPICAL DETAILS SHEET 2
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

AS CONSTRUCTED Drg No **305919R21**

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