



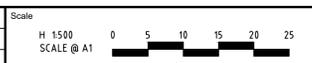
NON-GOVERNMENT
PRIMARY SCHOOL



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.

file name: 310067_001CR200_Acct_Layout Plans_C2000.dwg, layout name: C2000, plotted by: Lilian Tran, file location: G:\310067\001CR200\ACAD\plot_date: 02/12/2025 11:16 AM, Sheet: 2 of 14, Sheets

Rev	Amendments	Approved	Date
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 Authorised L. TRAN
 Checked W. ONG
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REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
FACE PLAN
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES
PRELIMINARY Dwg No 310067-001CR200 Rev A

70 REDSTONE HILL ROAD

STAGE 17B

FIRESTICK DRIVE

STAGE 16

NON-GOVERNMENT PRIMARY SCHOOL

STAGE 19

CEREMONY ROAD

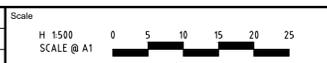
SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
					SIDE	OFFSET	SIDE	OFFSET
FIRESTICK DRIVE	S	2.65	N	2.85	N	0.90x	N	3.35
CEREMONY DRIVE	S	2.65	N	1.85	N	0.90x	N	2.35

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

file name: 310667_001CR201_A11.dwg; layout name: CR201; plot date: 02/12/2025 11:16 AM; Sheet: 3 of 14; Sheets

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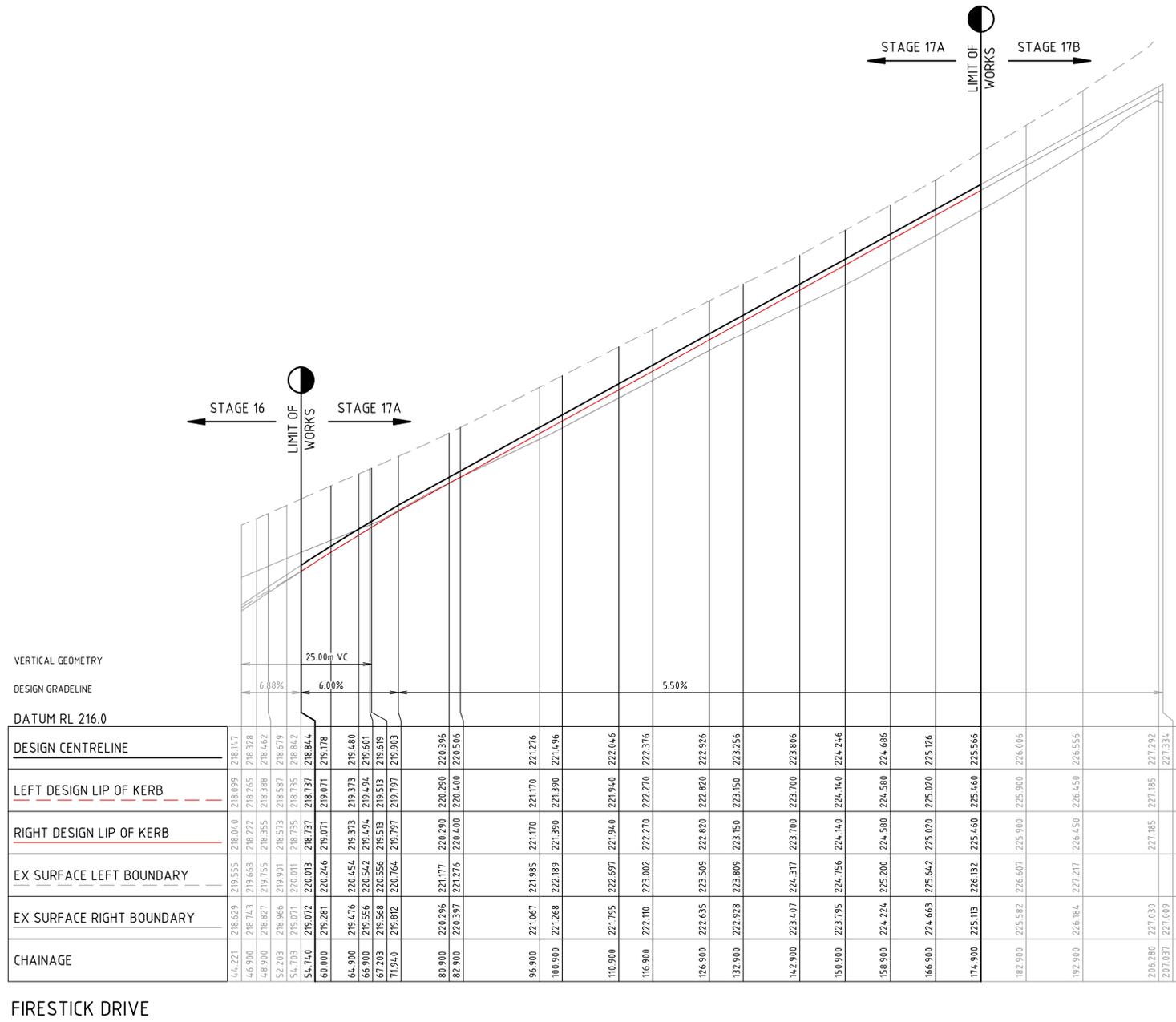


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W. ONG
 Date
02/12/25

REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
SERVICES PLAN
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES

PRELIMINARY Drg No **310067-001CR201** Rev **A**

file name: 310063_001CR300_Acc_Layout_Plane_CS300_uploaded_by:Lilian Tran
 file location: G:\310063\001CR300\ACAD\Plot date: 02/12/2025 11:16 AM Sheet: 4 of 14 Sheets



FIRESTICK DRIVE

Scale

H 1500
 SCALE @ A1
 V 150



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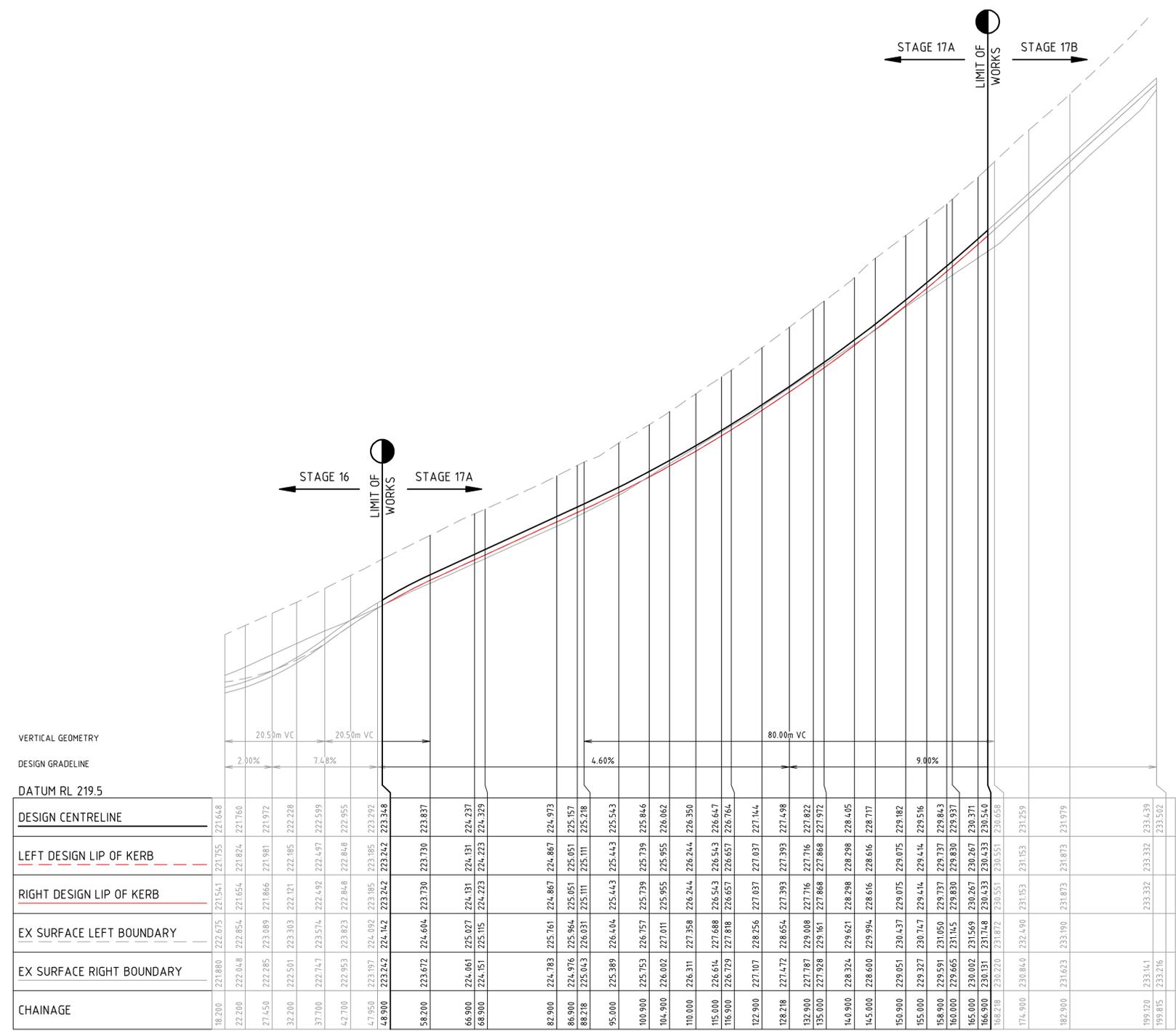
Designed
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Checked
 W. ONG
 Date
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**REDSTONE ESTATE
 STAGE 17A
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 1
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES**

PRELIMINARY Drg No 310067-001CR300 Rev A

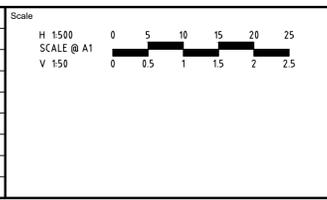
file: \\spire\0062_001CR301_A11.dwg, layout: name: CR301, plot: 02/12/2025 11:17 AM, sheet: 5 of 14, sheets: 14



CHAINAGE	EX SURFACE RIGHT BOUNDARY	EX SURFACE LEFT BOUNDARY	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB	DESIGN CENTRELINE
18.200	221.880	222.675	221.541	221.541	221.648
22.200	222.048	222.854	221.654	221.654	221.760
27.450	222.285	223.089	221.866	221.981	221.972
32.200	222.501	223.303	222.121	222.185	222.228
37.700	222.747	223.574	222.492	222.497	222.599
42.700	222.953	223.823	222.848	222.848	222.955
47.950	223.197	224.092	223.185	223.185	223.292
48.900	223.242	224.142	223.242	223.242	223.348
58.200	223.672	224.604	223.730	223.730	223.837
66.900	224.061	225.027	224.131	224.131	224.237
68.900	224.151	225.115	224.223	224.223	224.329
82.900	224.783	225.761	224.867	224.867	224.973
86.900	224.976	225.964	225.051	225.051	225.157
88.218	225.043	226.031	225.111	225.111	225.218
95.000	225.389	226.404	225.443	225.443	225.543
100.900	225.753	226.757	225.739	225.739	225.846
104.900	226.002	227.011	225.955	225.955	226.062
110.000	226.311	227.358	226.244	226.244	226.350
115.000	226.614	227.688	226.543	226.543	226.647
116.900	226.729	227.818	226.657	226.657	226.764
122.900	227.107	228.256	227.037	227.037	227.144
128.218	227.472	228.654	227.393	227.393	227.498
132.900	227.787	229.008	227.716	227.716	227.822
135.000	227.928	229.161	227.868	227.868	227.972
140.900	228.324	229.621	228.298	228.298	228.405
145.000	228.600	229.994	228.616	228.616	228.717
150.900	229.051	230.437	229.075	229.075	229.182
155.000	229.327	230.747	229.414	229.414	229.516
158.900	229.591	231.050	229.737	229.737	229.843
160.000	229.665	231.145	229.830	229.830	229.937
165.000	230.002	231.569	230.267	230.267	230.371
166.900	230.131	231.748	230.433	230.433	230.540
168.218	230.220	231.872	230.531	230.531	230.658
174.900	230.840	232.490	231.153	231.153	231.259
182.900	231.623	233.190	231.873	231.873	231.979
189.120	233.141		233.332	233.332	233.438
199.815	233.216				233.502

CEREMONY ROAD

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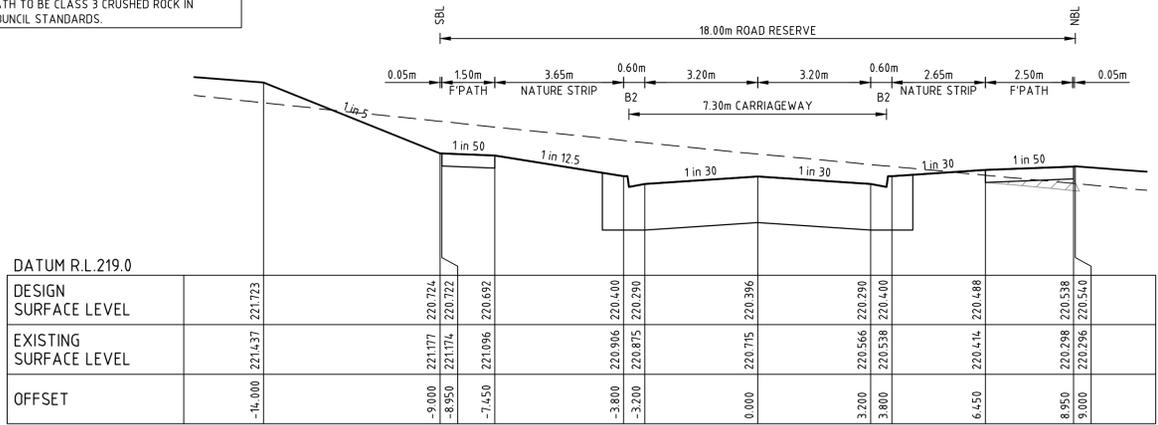
Date
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REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
ROAD LONG SECTIONS - SHEET 2
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES

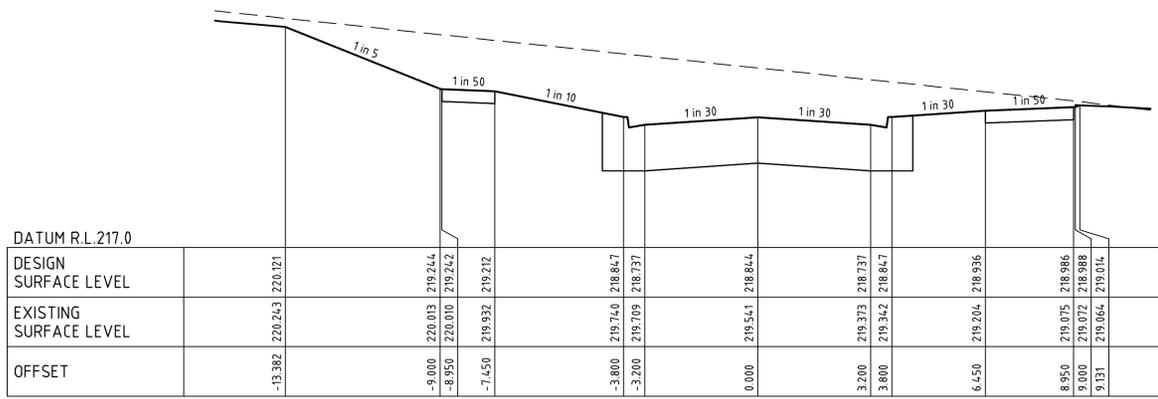
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Drg No **310067-001CR301** Rev **A**

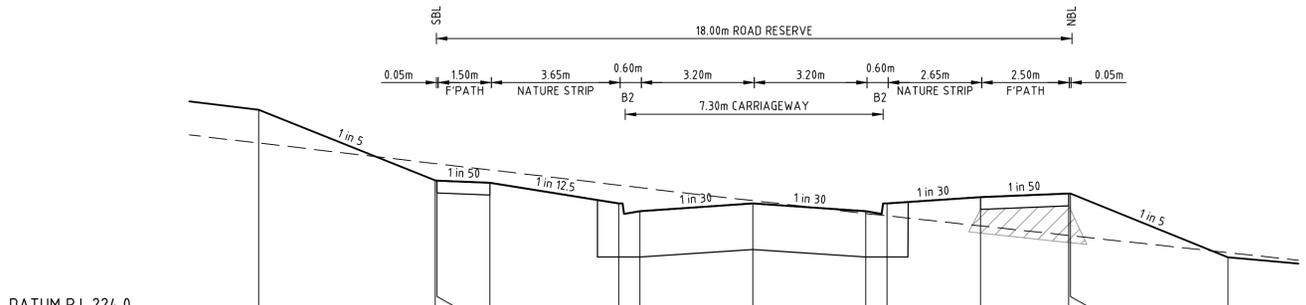
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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



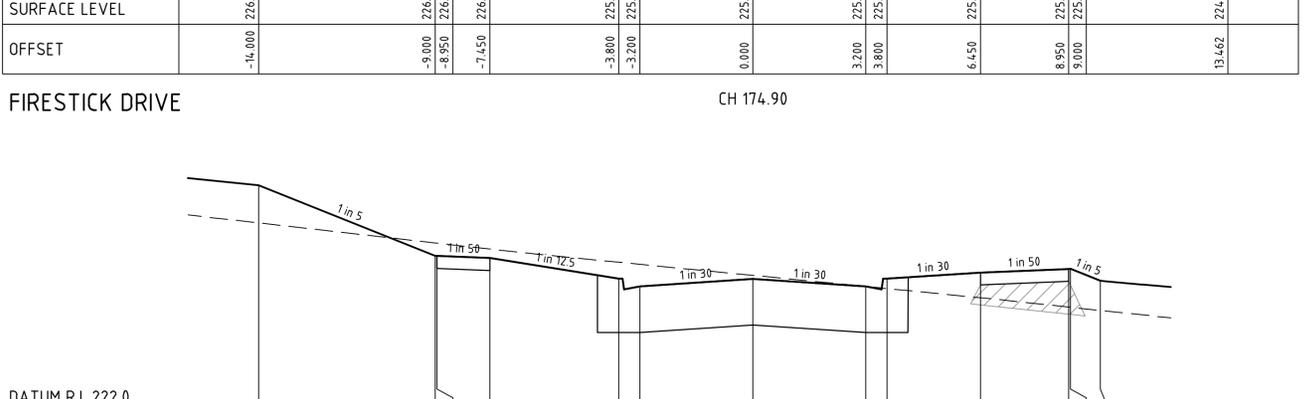
FIRESTICK DRIVE CH 80.90



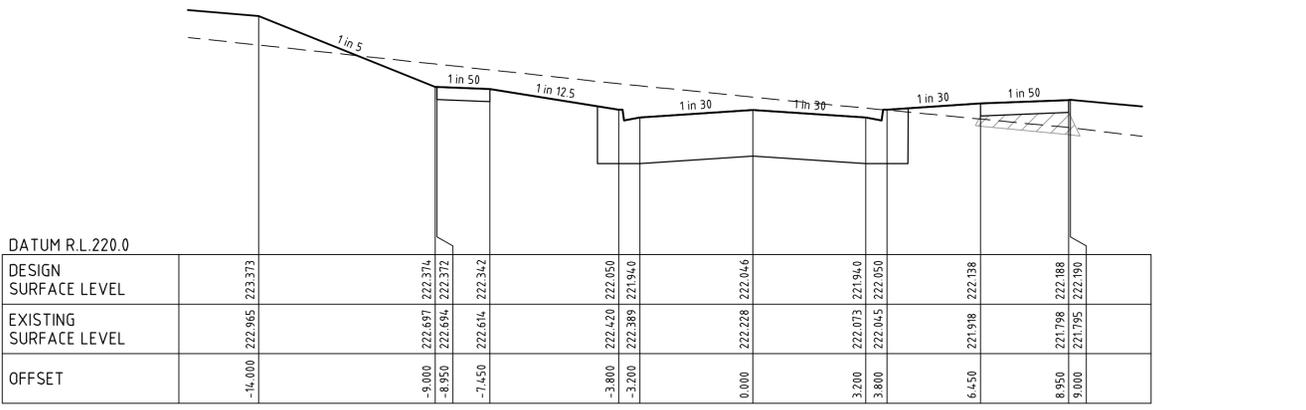
FIRESTICK DRIVE CH 54.74



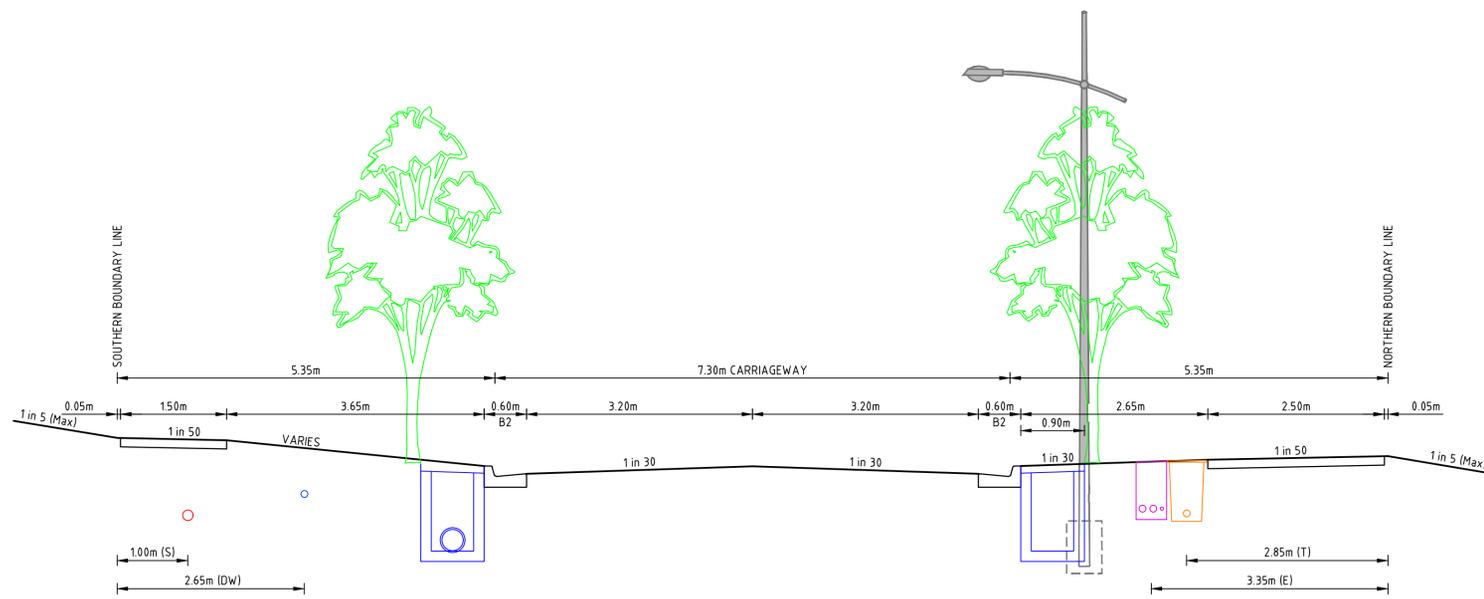
FIRESTICK DRIVE CH 174.90



FIRESTICK DRIVE CH 142.90



FIRESTICK DRIVE CH 110.90



FIRESTICK DRIVE TYPICAL CROSS SECTION
 18m WIDE ACCESS STREET

file name: 310667_001CR400.dwg, layout name: C:\Users\ltran\OneDrive\Documents\310667_001CR400.dwg, date: 02/12/25, 11:17 AM, Sheet: 6 of 14, Sheets

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Rev	Amendments	Approved	Date

Scale
 H 1:100
 SCALE @ A1
 V 1:50

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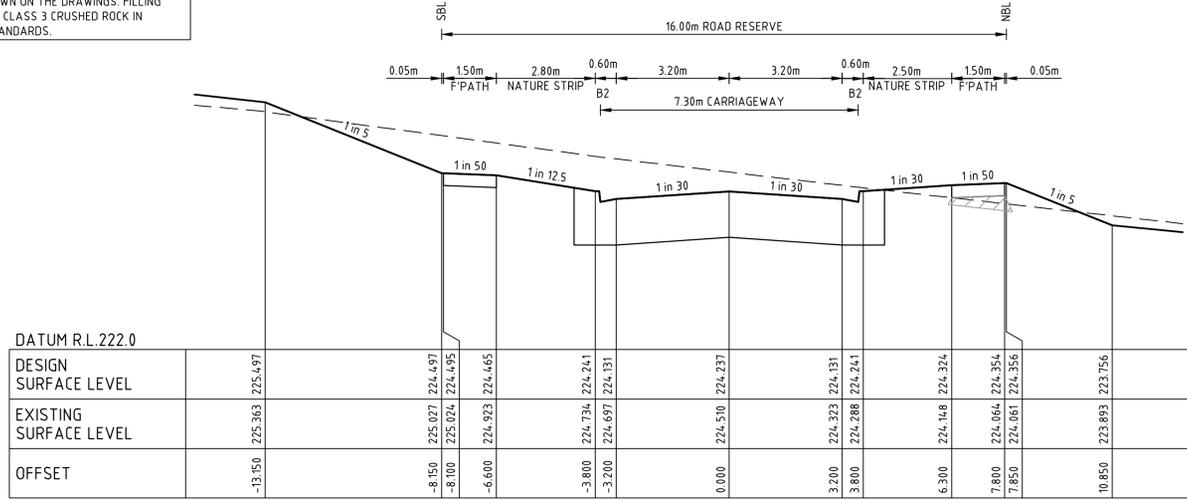
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**REDSTONE ESTATE
 STAGE 17A
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES**

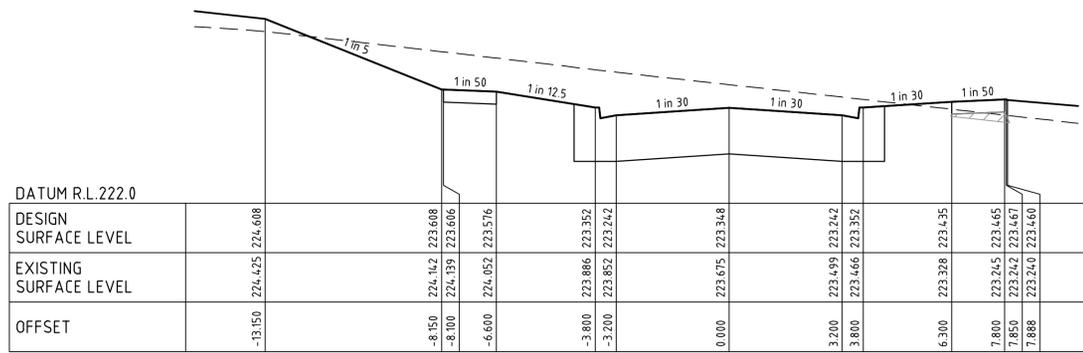
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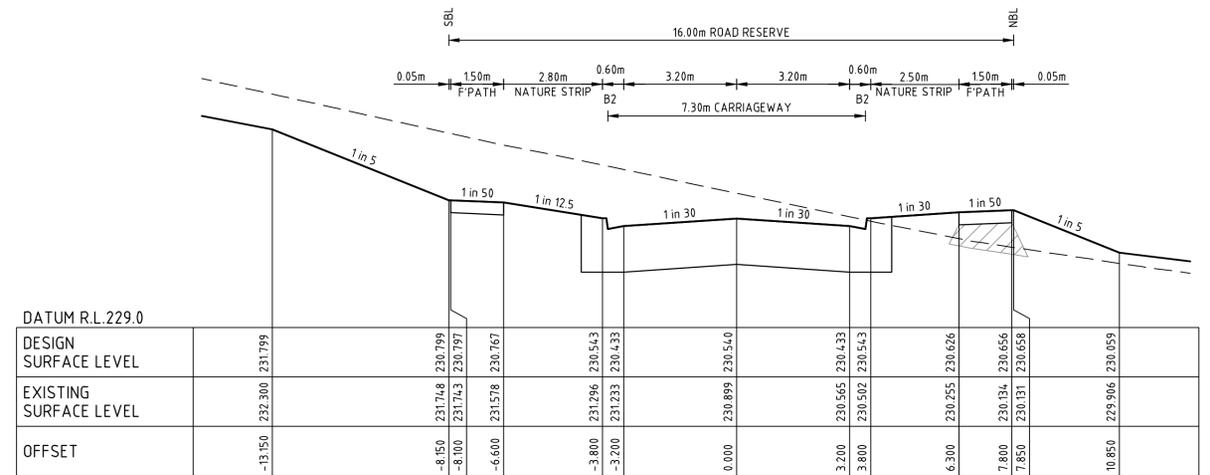
CEREMONY DRIVE

CH 66.90



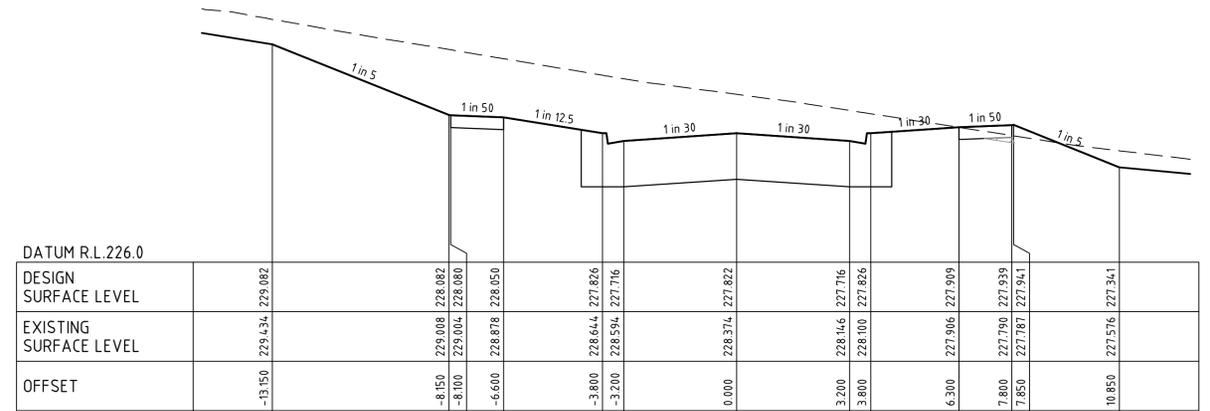
CEREMONY DRIVE

CH 48.90



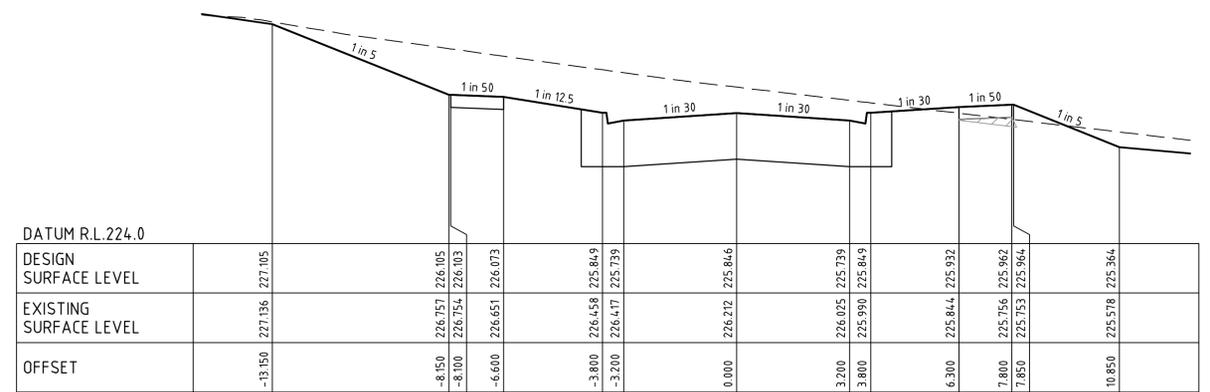
CEREMONY DRIVE

CH 166.90



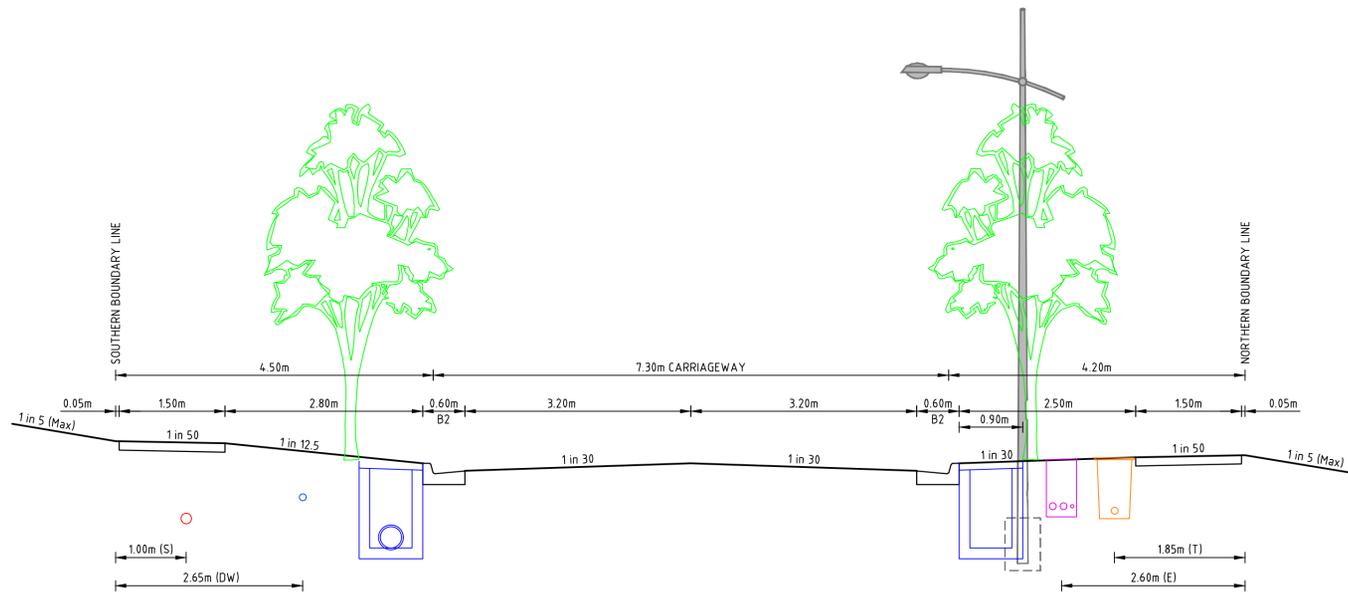
CEREMONY DRIVE

CH 132.90



CEREMONY DRIVE

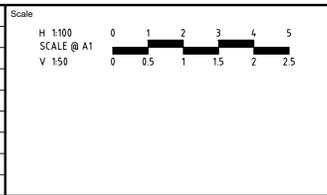
CH 100.90



CEREMONY ROAD TYPICAL CROSS SECTION
 16m WIDE ACCESS STREET

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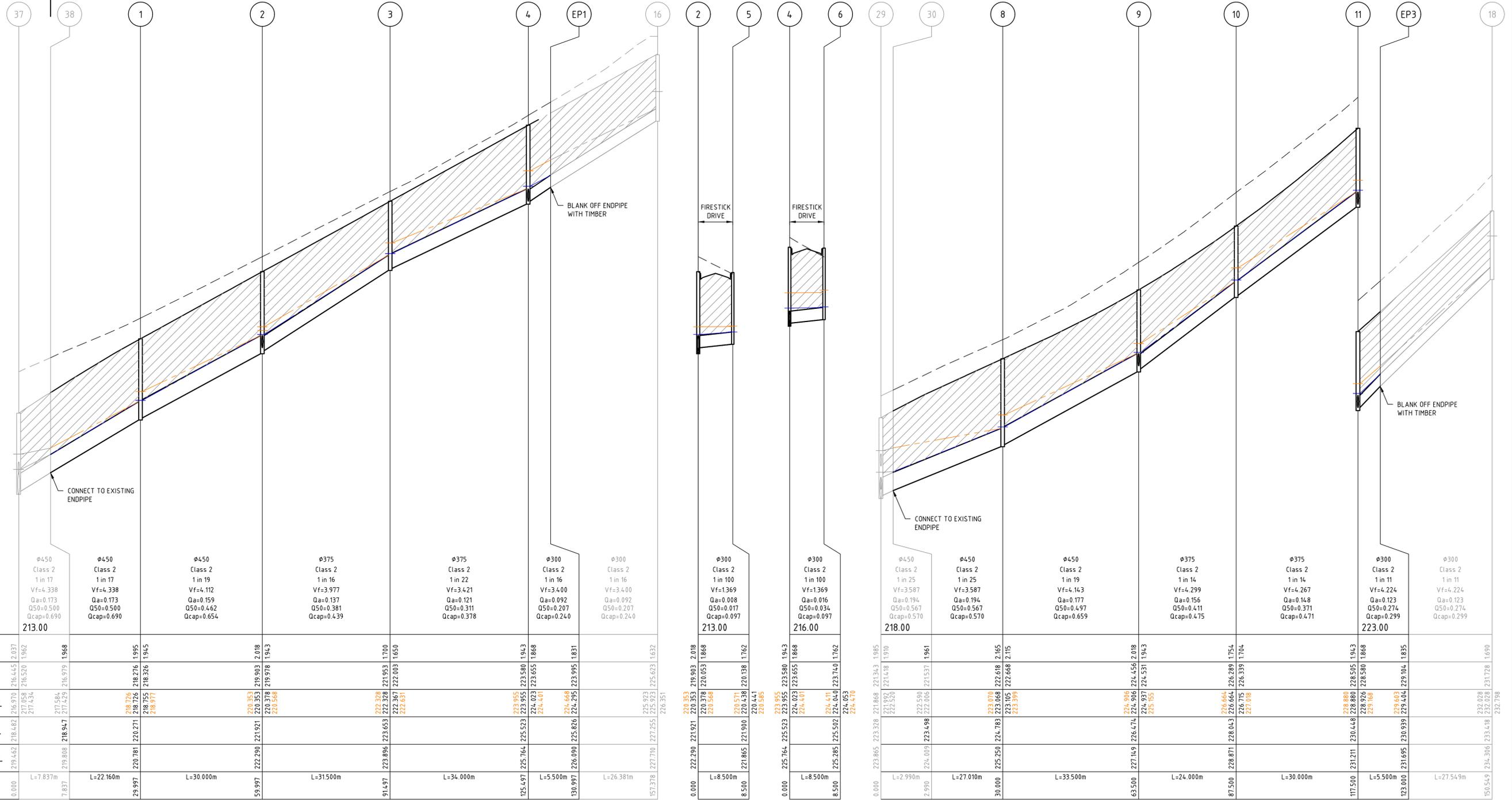
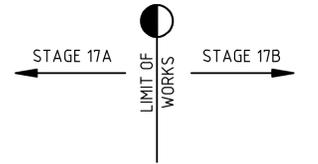
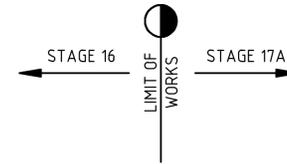
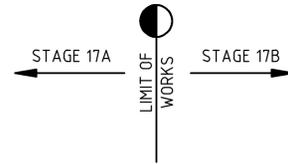
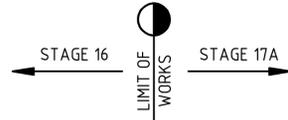
REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

PRELIMINARY Drg No **310067-001CR401** Rev **A**

CLASS 2 CRUSHED ROCK BACKFILL

50YR HYDRAULIC GRADE LEVEL

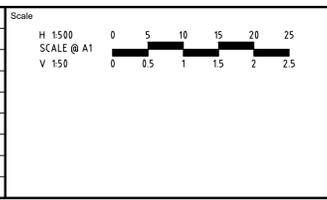
5YR HYDRAULIC GRADE LEVEL



PIPE DIAMETER	PIPE CLASS	PIPE GRADE	VELOCITY (M/S)	PIPE FLOW (M ³ /S)	PIPE CAPACITY (M ³ /S)	DATUM RL	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
Ø450	Class 2	1 in 17	Vf=4.338	Qa=0.173	Q50=0.500	213.00	2.037	216.445	216.970	217.434	219.442	0.000
Ø450	Class 2	1 in 17	Vf=4.338	Qa=0.173	Q50=0.500	213.00	1.968	216.520	217.058	217.522	219.808	7.837
Ø450	Class 2	1 in 19	Vf=3.977	Qa=0.159	Q50=0.462	213.00	1.945	216.326	216.847	217.311	219.808	7.837
Ø375	Class 2	1 in 16	Vf=3.421	Qa=0.137	Q50=0.381	213.00	1.700	216.326	216.847	217.311	219.808	7.837
Ø375	Class 2	1 in 16	Vf=3.421	Qa=0.137	Q50=0.381	213.00	1.650	216.326	216.847	217.311	219.808	7.837
Ø300	Class 2	1 in 16	Vf=3.400	Qa=0.092	Q50=0.207	213.00	1.831	216.326	216.847	217.311	219.808	7.837
Ø300	Class 2	1 in 16	Vf=3.400	Qa=0.092	Q50=0.207	213.00	1.632	216.326	216.847	217.311	219.808	7.837
Ø300	Class 2	1 in 100	Vf=1.369	Qa=0.008	Q50=0.017	213.00	1.762	216.326	216.847	217.311	219.808	7.837
Ø300	Class 2	1 in 100	Vf=1.369	Qa=0.016	Q50=0.034	216.00	1.668	216.326	216.847	217.311	219.808	7.837
Ø450	Class 2	1 in 25	Vf=3.587	Qa=0.194	Q50=0.567	218.00	1.961	218.000	218.520	218.984	221.211	2.990
Ø450	Class 2	1 in 25	Vf=3.587	Qa=0.194	Q50=0.567	218.00	1.704	218.000	218.520	218.984	221.211	2.990
Ø375	Class 2	1 in 14	Vf=4.143	Qa=0.156	Q50=0.411	218.00	1.754	218.000	218.520	218.984	221.211	2.990
Ø375	Class 2	1 in 14	Vf=4.143	Qa=0.156	Q50=0.411	218.00	1.704	218.000	218.520	218.984	221.211	2.990
Ø300	Class 2	1 in 11	Vf=4.224	Qa=0.123	Q50=0.274	223.00	1.835	223.000	223.520	223.984	226.211	8.750
Ø300	Class 2	1 in 11	Vf=4.224	Qa=0.123	Q50=0.274	223.00	1.690	223.000	223.520	223.984	226.211	8.750

file name: 310067_001CR600_A11.dwg, layout name: CR600, plotted by: Lillian Tran, plot date: 02/12/2025 11:17 AM, sheet: 8 of 14, sheets

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 Authorised: L. TRAN Date: 02/12/25

REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES

PRELIMINARY Dwg No: 310067-001CR600 Rev: A

CLASS 2 CRUSHED ROCK BACKFILL

50YR HYDRAULIC GRADE LEVEL

5YR HYDRAULIC GRADE LEVEL

STAGE 16

STAGE 17A

STAGE 17A

STAGE 17B

STAGE 16

STAGE 17A

STAGE 17A

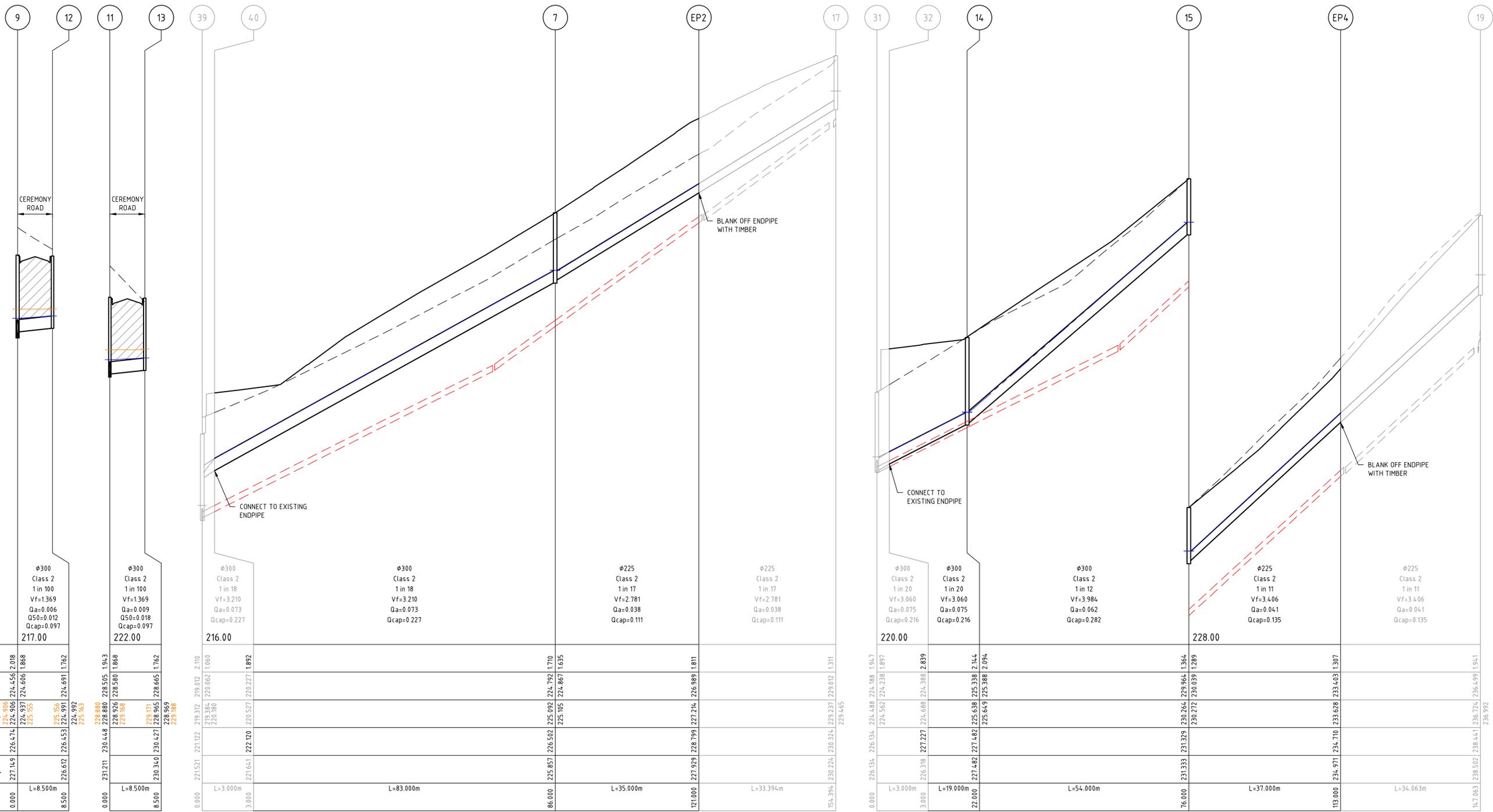
STAGE 17B

LIMIT OF WORKS

LIMIT OF WORKS

LIMIT OF WORKS

LIMIT OF WORKS



Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.369
Pipe Flow (m3/s)	Qa=0.006
Pipe Capacity (m3/s)	Q50=0.012 Qcap=0.097
DATUM RL	217.00
DEPTH TO INVERT	224.992
DESIGN INVERT LEVEL	217.00
HYDRAULIC GRADE LEVEL	217.00
FINISHED SURFACE LEVEL	217.00
EXISTING SURFACE LEVEL	217.00
CHAINAGE	L=8.500m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 100
Velocity (m/s)	Vf=1.369
Pipe Flow (m3/s)	Qa=0.009
Pipe Capacity (m3/s)	Q50=0.018 Qcap=0.097
DATUM RL	222.00
DEPTH TO INVERT	224.992
DESIGN INVERT LEVEL	222.00
HYDRAULIC GRADE LEVEL	222.00
FINISHED SURFACE LEVEL	222.00
EXISTING SURFACE LEVEL	222.00
CHAINAGE	L=8.500m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 100
Velocity (m/s)	Vf=3.210
Pipe Flow (m3/s)	Qa=0.073
Pipe Capacity (m3/s)	Q50=0.227
DATUM RL	216.00
DEPTH TO INVERT	216.00
DESIGN INVERT LEVEL	216.00
HYDRAULIC GRADE LEVEL	216.00
FINISHED SURFACE LEVEL	216.00
EXISTING SURFACE LEVEL	216.00
CHAINAGE	L=3.000m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 18
Velocity (m/s)	Vf=3.210
Pipe Flow (m3/s)	Qa=0.073
Pipe Capacity (m3/s)	Qcap=0.227
DATUM RL	216.00
DEPTH TO INVERT	216.00
DESIGN INVERT LEVEL	216.00
HYDRAULIC GRADE LEVEL	216.00
FINISHED SURFACE LEVEL	216.00
EXISTING SURFACE LEVEL	216.00
CHAINAGE	L=83.000m

Pipe Diameter	ø225
Pipe Class	Class 2
Pipe Grade	1 in 17
Velocity (m/s)	Vf=2.781
Pipe Flow (m3/s)	Qa=0.038
Pipe Capacity (m3/s)	Qcap=0.111
DATUM RL	216.00
DEPTH TO INVERT	216.00
DESIGN INVERT LEVEL	216.00
HYDRAULIC GRADE LEVEL	216.00
FINISHED SURFACE LEVEL	216.00
EXISTING SURFACE LEVEL	216.00
CHAINAGE	L=35.000m

Pipe Diameter	ø225
Pipe Class	Class 2
Pipe Grade	1 in 17
Velocity (m/s)	Vf=2.781
Pipe Flow (m3/s)	Qa=0.038
Pipe Capacity (m3/s)	Qcap=0.111
DATUM RL	216.00
DEPTH TO INVERT	216.00
DESIGN INVERT LEVEL	216.00
HYDRAULIC GRADE LEVEL	216.00
FINISHED SURFACE LEVEL	216.00
EXISTING SURFACE LEVEL	216.00
CHAINAGE	L=33.394m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 20
Velocity (m/s)	Vf=3.060
Pipe Flow (m3/s)	Qa=0.075
Pipe Capacity (m3/s)	Qcap=0.216
DATUM RL	220.00
DEPTH TO INVERT	220.00
DESIGN INVERT LEVEL	220.00
HYDRAULIC GRADE LEVEL	220.00
FINISHED SURFACE LEVEL	220.00
EXISTING SURFACE LEVEL	220.00
CHAINAGE	L=3.000m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 20
Velocity (m/s)	Vf=3.060
Pipe Flow (m3/s)	Qa=0.075
Pipe Capacity (m3/s)	Qcap=0.216
DATUM RL	220.00
DEPTH TO INVERT	220.00
DESIGN INVERT LEVEL	220.00
HYDRAULIC GRADE LEVEL	220.00
FINISHED SURFACE LEVEL	220.00
EXISTING SURFACE LEVEL	220.00
CHAINAGE	L=19.000m

Pipe Diameter	ø300
Pipe Class	Class 2
Pipe Grade	1 in 12
Velocity (m/s)	Vf=3.984
Pipe Flow (m3/s)	Qa=0.062
Pipe Capacity (m3/s)	Qcap=0.282
DATUM RL	228.00
DEPTH TO INVERT	228.00
DESIGN INVERT LEVEL	228.00
HYDRAULIC GRADE LEVEL	228.00
FINISHED SURFACE LEVEL	228.00
EXISTING SURFACE LEVEL	228.00
CHAINAGE	L=54.000m

Pipe Diameter	ø225
Pipe Class	Class 2
Pipe Grade	1 in 11
Velocity (m/s)	Vf=3.406
Pipe Flow (m3/s)	Qa=0.041
Pipe Capacity (m3/s)	Qcap=0.135
DATUM RL	228.00
DEPTH TO INVERT	228.00
DESIGN INVERT LEVEL	228.00
HYDRAULIC GRADE LEVEL	228.00
FINISHED SURFACE LEVEL	228.00
EXISTING SURFACE LEVEL	228.00
CHAINAGE	L=37.000m

Pipe Diameter	ø225
Pipe Class	Class 2
Pipe Grade	1 in 11
Velocity (m/s)	Vf=3.406
Pipe Flow (m3/s)	Qa=0.041
Pipe Capacity (m3/s)	Qcap=0.135
DATUM RL	228.00
DEPTH TO INVERT	228.00
DESIGN INVERT LEVEL	228.00
HYDRAULIC GRADE LEVEL	228.00
FINISHED SURFACE LEVEL	228.00
EXISTING SURFACE LEVEL	228.00
CHAINAGE	L=34.063m

Ø50 PIPES AND PITS TO REDUCE GAP FLOWS IN ROAD

file name: 310067_001CR601_Ans_Layout Area_C6601.dwg, plot date: 02/12/2025 11:17 AM, Sheet: 9 of 14, Sheets

Scale	H 1500 SCALE @ A1 V 150
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H 1500
SCALE @ A1
V 150

0 5 10 15 20 25
0 0.5 1 1.5 2 2.5

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REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

PRELIMINARY

Drg No
310067-001CR601

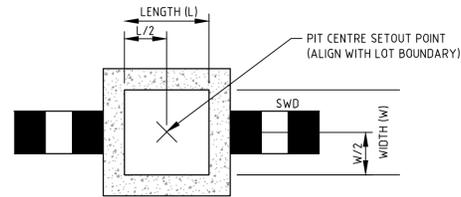
Rev
A

DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	DOUBLE SIDE ENTRY PIT	750	900	450	218.326	450	218.276	220.271	1.995	REFER TO EDCM STD FIG 602 & 607
2	DOUBLE SIDE ENTRY PIT	900	900	375	219.978	450	219.903	221.921	2.018	REFER TO EDCM STD FIG 602 & 607
				300	220.053					
3	DOUBLE SIDE ENTRY PIT	600	900	375	222.003	375	221.953	223.653	1.700	REFER TO EDCM STD FIG 602 & 605
4	DOUBLE SIDE ENTRY PIT	600	900	300	223.655	375	223.580	225.523	1.943	REFER TO EDCM STD FIG 602 & 605
				300	223.655					
EP1	ENDPIPE					300	223.995	225.826	1.831	BLANK OFF ENDPIPE WITH TIMBER
5	DOUBLE SIDE ENTRY PIT	600	900			300	220.138	221.900	1.762	REFER TO EDCM STD FIG 602 & 605
6	DOUBLE SIDE ENTRY PIT	600	900			300	223.740	225.502	1.762	REFER TO EDCM STD FIG 602 & 605
7	JUNCTION PIT	600	900	225	224.867	300	224.792	226.502	1.710	REFER TO EDCM STD FIG 605
EP2	ENDPIPE					225	226.989	228.799	1.811	BLANK OFF ENDPIPE WITH TIMBER
8	DOUBLE SIDE ENTRY PIT	900	900	450	222.668	450	222.618	224.783	2.165	REFER TO EDCM STD FIG 602 & 607
9	DOUBLE SIDE ENTRY PIT	900	900	375	224.531	450	224.456	226.474	2.018	REFER TO EDCM STD FIG 602 & 607
				300	224.606					
10	DOUBLE SIDE ENTRY PIT	600	900	375	226.339	375	226.289	228.043	1.754	REFER TO EDCM STD FIG 602 & 605
11	DOUBLE SIDE ENTRY PIT	600	900	300	228.580	375	228.505	230.448	1.943	REFER TO EDCM STD FIG 602 & 605
				300	228.580					
EP3	ENDPIPE					300	229.104	230.939	1.835	BLANK OFF ENDPIPE WITH TIMBER
12	DOUBLE SIDE ENTRY PIT	600	900			300	224.691	226.453	1.762	REFER TO EDCM STD FIG 602 & 605
13	DOUBLE SIDE ENTRY PIT	600	900			300	228.665	230.427	1.762	REFER TO EDCM STD FIG 602 & 605
14	JUNCTION PIT	900	900	300	225.388	300	225.338	227.482	2.144	REFER TO EDCM STD FIG 607
15	JUNCTION PIT	600	900	225	230.039	300	229.964	231.329	1.364	REFER TO EDCM STD FIG 605
EP4	ENDPIPE					225	233.403	234.710	1.307	BLANK OFF ENDPIPE WITH TIMBER
30	ENDPIPE					450	221.537	223.498	1.961	CONNECT TO EXISTING ENDPIPE
32	ENDPIPE					300	224.388	227.227	2.839	CONNECT TO EXISTING ENDPIPE
38	ENDPIPE					450	216.979	218.947	1.968	CONNECT TO EXISTING ENDPIPE
40	ENDPIPE					300	220.227	222.120	1.892	CONNECT TO EXISTING ENDPIPE

PIT SETOUT CO-ORDINATES

NAME	POINT	EASTING	NORTHING
1	B	302177.530	5835332.709
8	B	302124.241	5835266.681
10	B	302079.496	5835302.793



TYPICAL DRAINAGE PIT SETOUT POINT 'B'
JUNCTION PIT / EASEMENT PIT
NOT TO SCALE

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Authorised L. TRAN	Date 02/12/25

REDSTONE ESTATE
STAGE 17A
 ROAD AND DRAINAGE
 DRAINAGE PIT SCHEDULE
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES

PRELIMINARY

 Drg No
310067-001CR602

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A



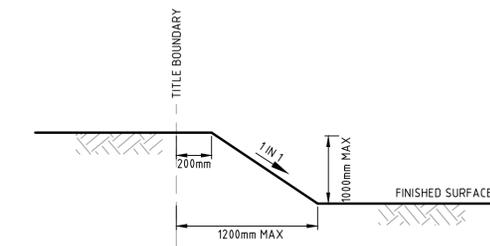
DESIGN PAVEMENT PROFILE

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

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

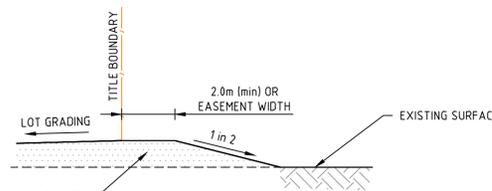
ROAD NAME	TYPE
FIRESTICK DRIVE	A
CEREMONY ROAD	A

CONCRETE PAVEMENT	DESCRIPTION	LEGEND
FOOTPATH	125mm THICK N25 CONCRETE WITH SL72 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES. ON 50mm THICK 20mm CLASS CRUSHED ROCK. REFER TO EDCM4.01 FOR DETAILS	
RESIDENTIAL VEHICLE CROSSING	125mm THICK N25 CONCRETE WITH SL72 MESH TOP 50 COVER. MESH TO HAVE 50 COVER TO ALL EDGES. ON 50mm THICK 20mm CLASS CRUSHED ROCK. REFER TO EDCM501-502 FOR DETAILS	



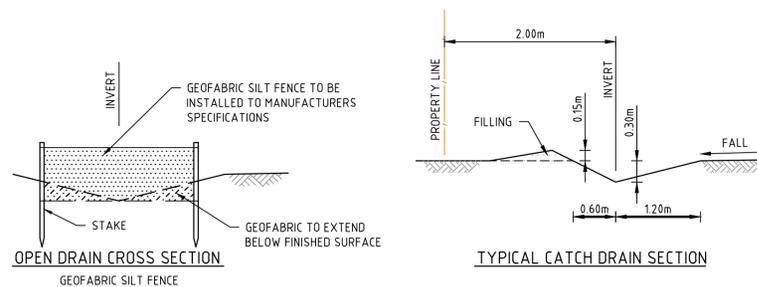
REAR LOT BATTER TYPICAL DETAIL

NOT TO SCALE



LOT FILLING AT STAGE BOUNDARY

NOT TO SCALE



OPEN DRAIN CROSS SECTION

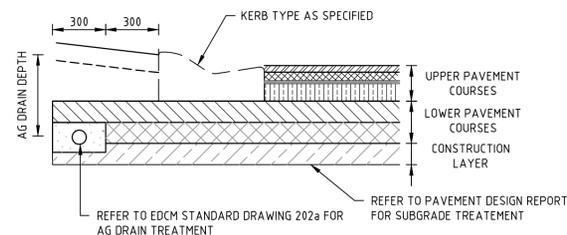
TYPICAL CATCH DRAIN SECTION

NOT TO SCALE

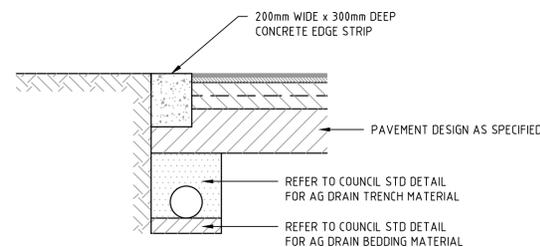


PAVEMENT PLAN

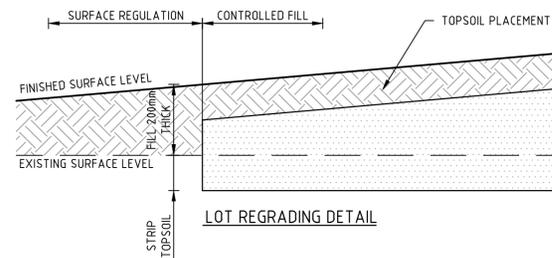
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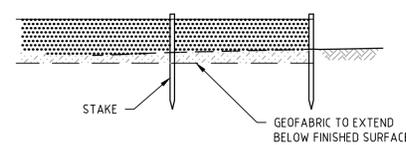
TYPICAL SUBSURFACE DRAINAGE DETAIL



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



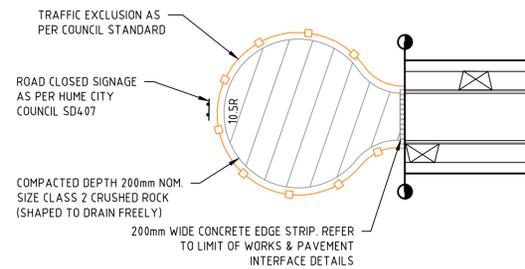
LOT REGRADING DETAIL



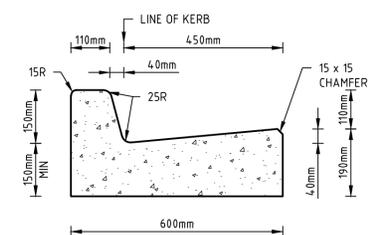
SILT CONTROL FOR LOTS

GEOFABRIC SILT FENCE

NOT TO SCALE



TEMPORARY TURNING AREA DETAIL



600 B2

STANDARD KERB PROFILES

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

H 1:100 SCALE @ A1

KERB NOTES:

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

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 V180556REPORT013 ON "GEOTECHNICAL INVESTIGATION FOR PROPOSED RESIDENTIAL SUBDIVISION - REDSTONE HILL, SUNBURY SOUTH, VIC" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

REFER GEOTECH REPORT FOR SUBGRADE REQUIREMENTS. SUBGRADE TO BE PROOF ROLLED PRIOR TO PLACEMENT OF CAPPING LAYER.

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 Designed: L. TRAN

 Authorised: L. TRAN

 Checked: W. ONG

 Date: 02/12/25

REDSTONE ESTATE

STAGE 17A

ROAD AND DRAINAGE

PAVEMENT AND TYPICAL DETAILS

 HUME CITY COUNCIL

 VILLAWOOD PROPERTIES

PRELIMINARY

 Drg No: 310067-001CR700

 Rev: A



NON-GOVERNMENT
PRIMARY SCHOOL

SIGNAGE SCHEDULE

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

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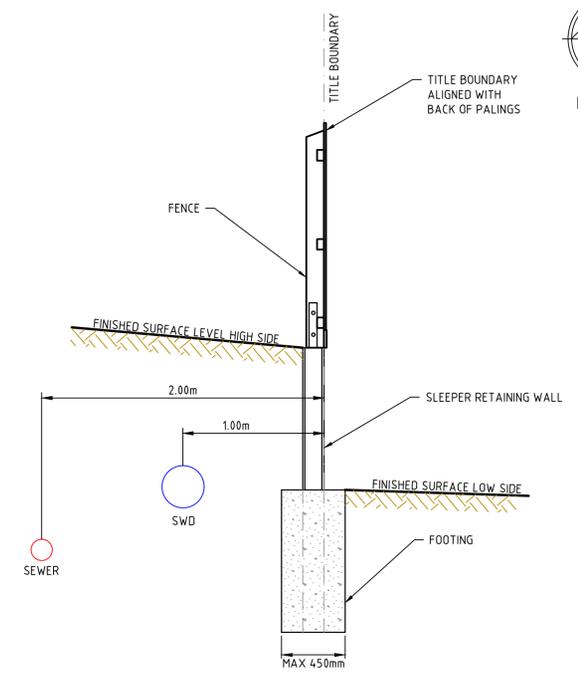
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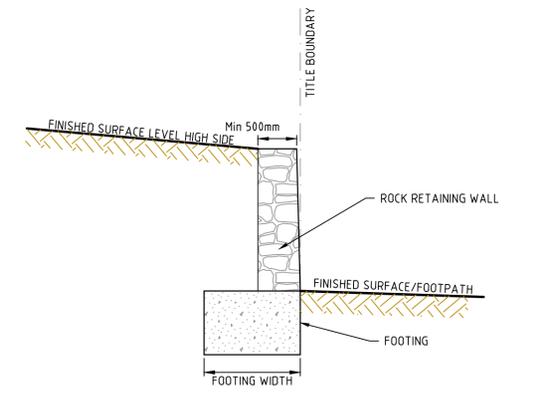
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ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES
PRELIMINARY

 Dwg No 310067-001CR800 Rev A



SLEEPER RETAINING WALL TYPICAL DETAIL
NOT TO SCALE



ROCK RETAINING WALL (WITH PROVISION FOR FENCING) TYPICAL DETAIL
NOT TO SCALE

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

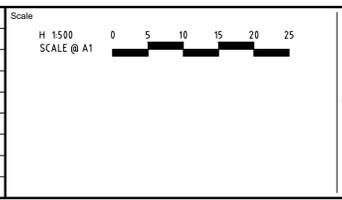
LEGEND		
DESCRIPTION	EXISTING	PROPOSED
RETAINING WALL ROCK WITH FENCE	--- (dashed orange)	--- (dashed orange)
RETAINING WALL CONCRETE SLEEPER	--- (dashed red)	--- (dashed red)
RETAINING WALL ROCK	--- (dashed green)	--- (dashed green)

NOTE:

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

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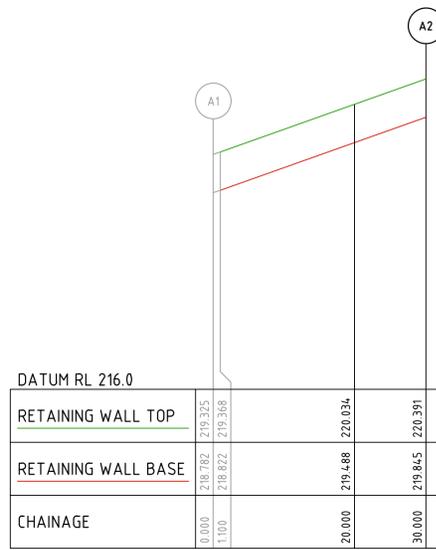
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REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
RETAINING WALLS - SHEET 1
 HUME CITY COUNCIL
 VILLAWOOD PROPERTIES

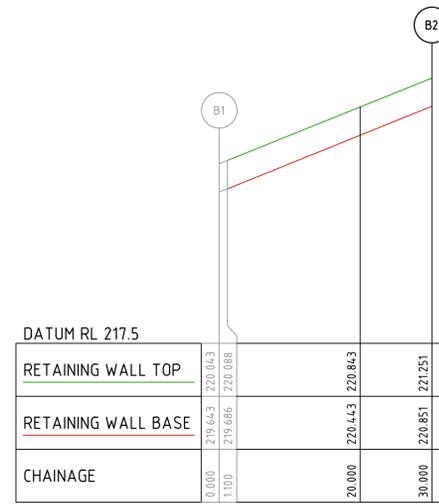
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Drg No: 310067-001CR900 Rev: A

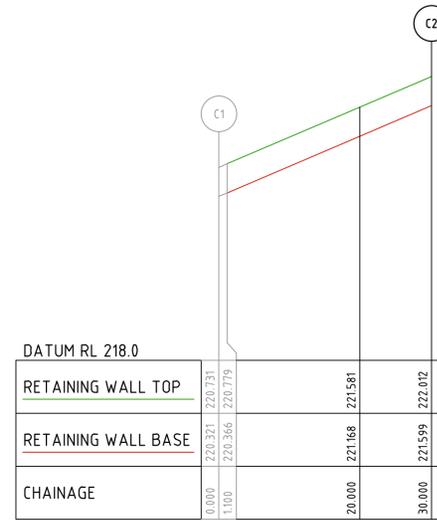
NOTE:
RETAINING WALL LEVELS PROVIDED IN LONG SECTION ABOVE ARE TO FINISHED SURFACE LEVELS. RETAINING WALLS BUILT ON SITE NEED TO CATER FOR LEVELS SHOWN.



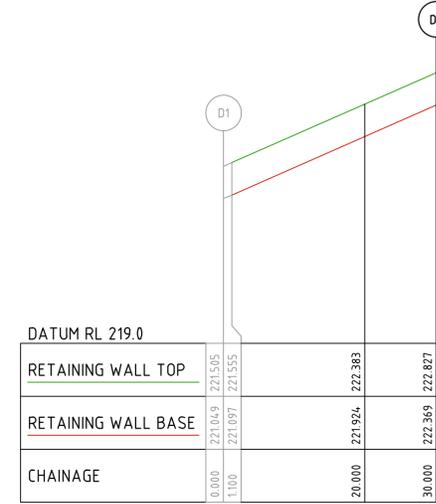
RETAINING WALL A



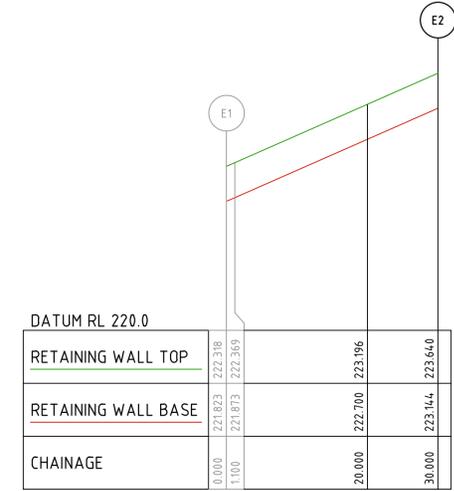
RETAINING WALL B



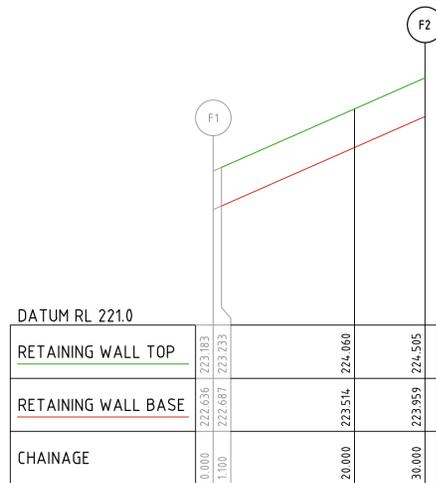
RETAINING WALL C



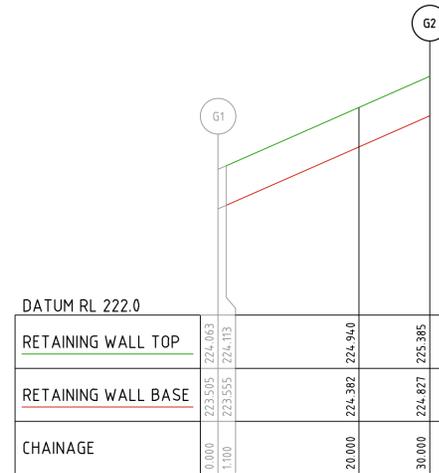
RETAINING WALL D



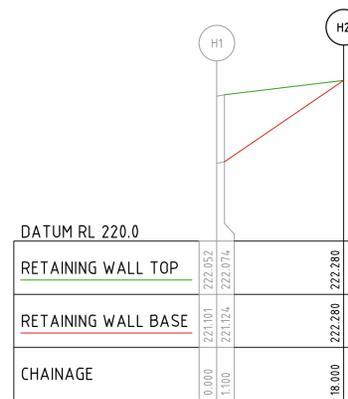
RETAINING WALL E



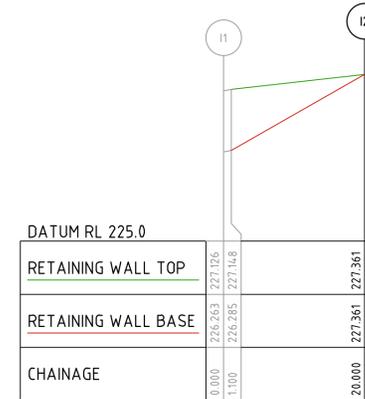
RETAINING WALL F



RETAINING WALL G



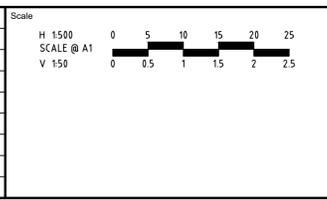
RETAINING WALL H



RETAINING WALL I

file name: 310667_001CR901_A11.dwg; layout name: CR901; plot date: 02/12/2025 11:20 AM; Sheet 1k of 1k Sheets

Rev	A	ISSUED TO COUNCIL	L.T	02/12/25
Rev		Amendments	Approved	Date



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RETAINING WALLS - SHEET 2

 HUME CITY COUNCIL

 VILLAWOOD PROPERTIES

PRELIMINARY

 Drg No 310067-001CR901 Rev A