

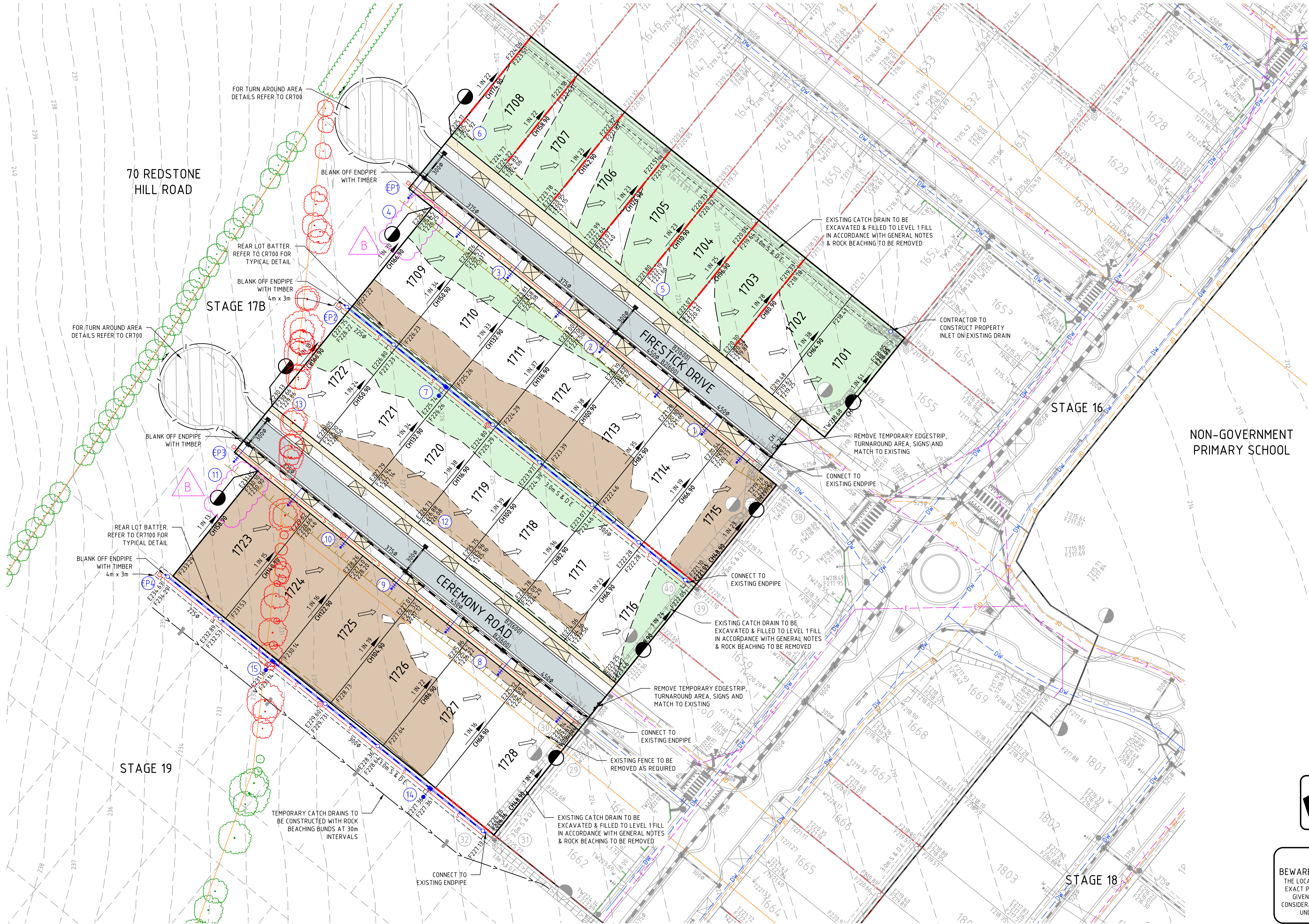
**BEFORE
YOU DIG**
www.byda.com.au
Zero Damage - Zero Harm

PRELIMINARY Drg No Rev
310067-001CR100 B

SUBDIVISION ACT 1988
This approved engineering plan
forms part of Planning Permit
P22160.
Date: 14/09/2026
Sheet 2 of 14
Signature for Responsible
Authority:
Senarath Pathirana

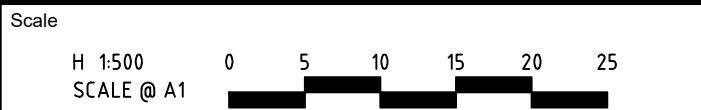


WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY, AND THEIR
EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS
GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL
CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES
UNDER OVERHEAD ELECTRICITY TRANSMISSION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



file name: 310067-001CR200_Avd Layout Areas_C2000.plt Date: 14/09/2026 9:42 AM by: Dinesh, Rev: 1
SHEET 2 OF 14
Location: C:\Users\senarath\OneDrive\Documents\310067-001-Redstone Stage 17A.dwg

B	LIMIT OF WORKS AMENDED	J.P	09/06/26		
A	ISSUED TO COUNCIL	L.T	02/12/25		
Rev	Amendments	Approved	Date		



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properties

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Designed
L. TRAN
Authorised
L. TRAN

Checked
W. ONG
Date
2nd December 2025

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

PRELIMINARY Drg No 310067-001CR200 Rev B



70 REDSTONE
HILL ROAD

STAGE 17B

FIRESTICK DRIVE

STAGE 16

NON-GOVERNMENT
PRIMARY SCHOOL

STAGE 19

CEREMONY ROAD

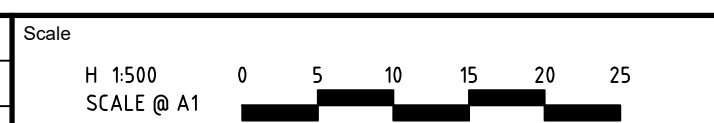
SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
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: 310067-001CR200_Arc Layout.mxd, C:\Users\spire\OneDrive\Documents\310067-001-Redstone Stage 17A.dwg, 14/09/2025, 9:42 AM by: Dinesh, Rev: 1, Location: C:\Users\spire\OneDrive\Documents\310067-001-Redstone Stage 17A.dwg, 14/09/2025, 9:42 AM by: Dinesh, Rev: 1, SHEET 3 OF 14

Rev	Amendments	Approved	Date
B	LIMIT OF WORKS AMENDED	J.P	09/06/26
A	ISSUED TO COUNCIL	L.T	02/12/25



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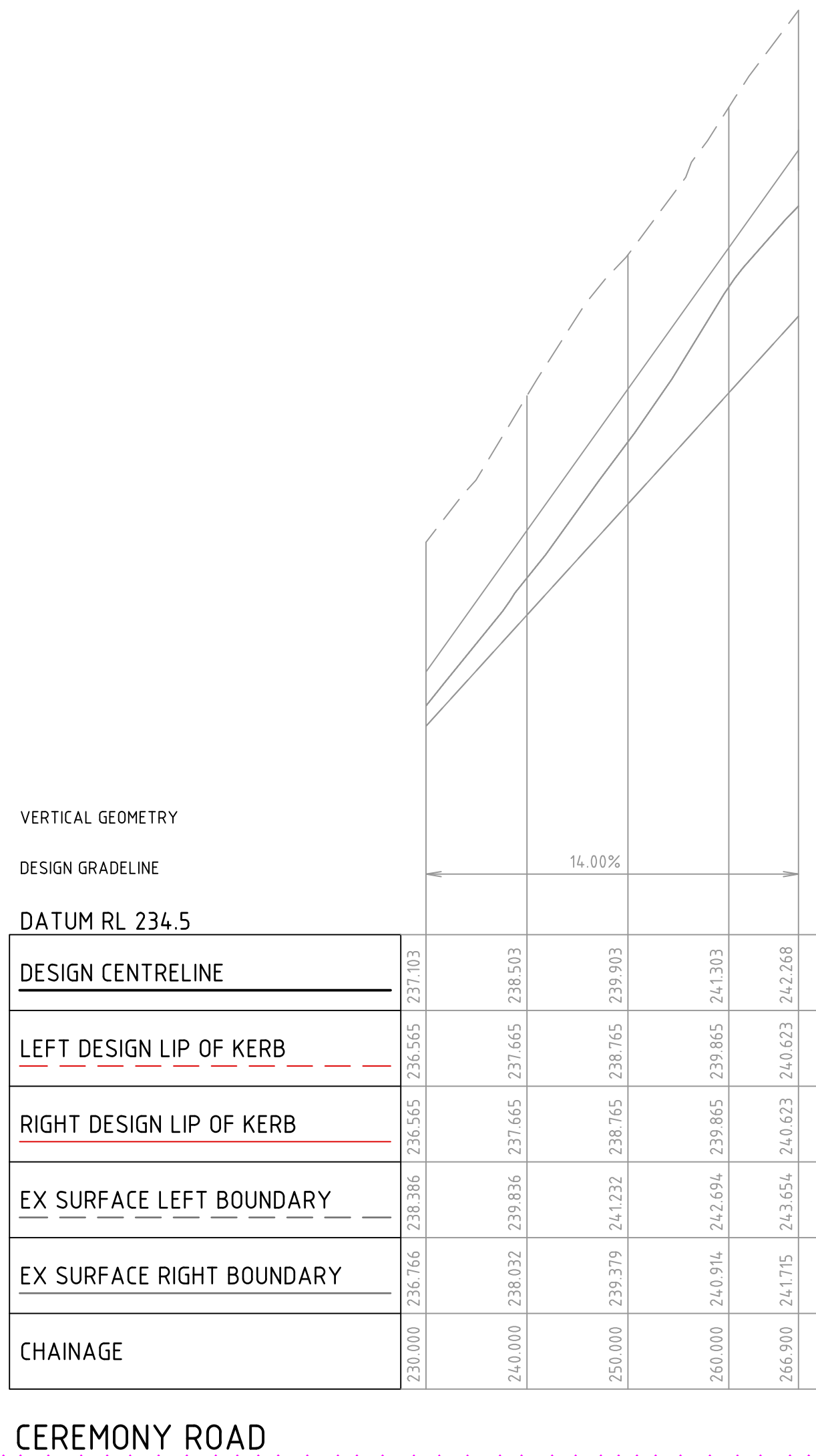
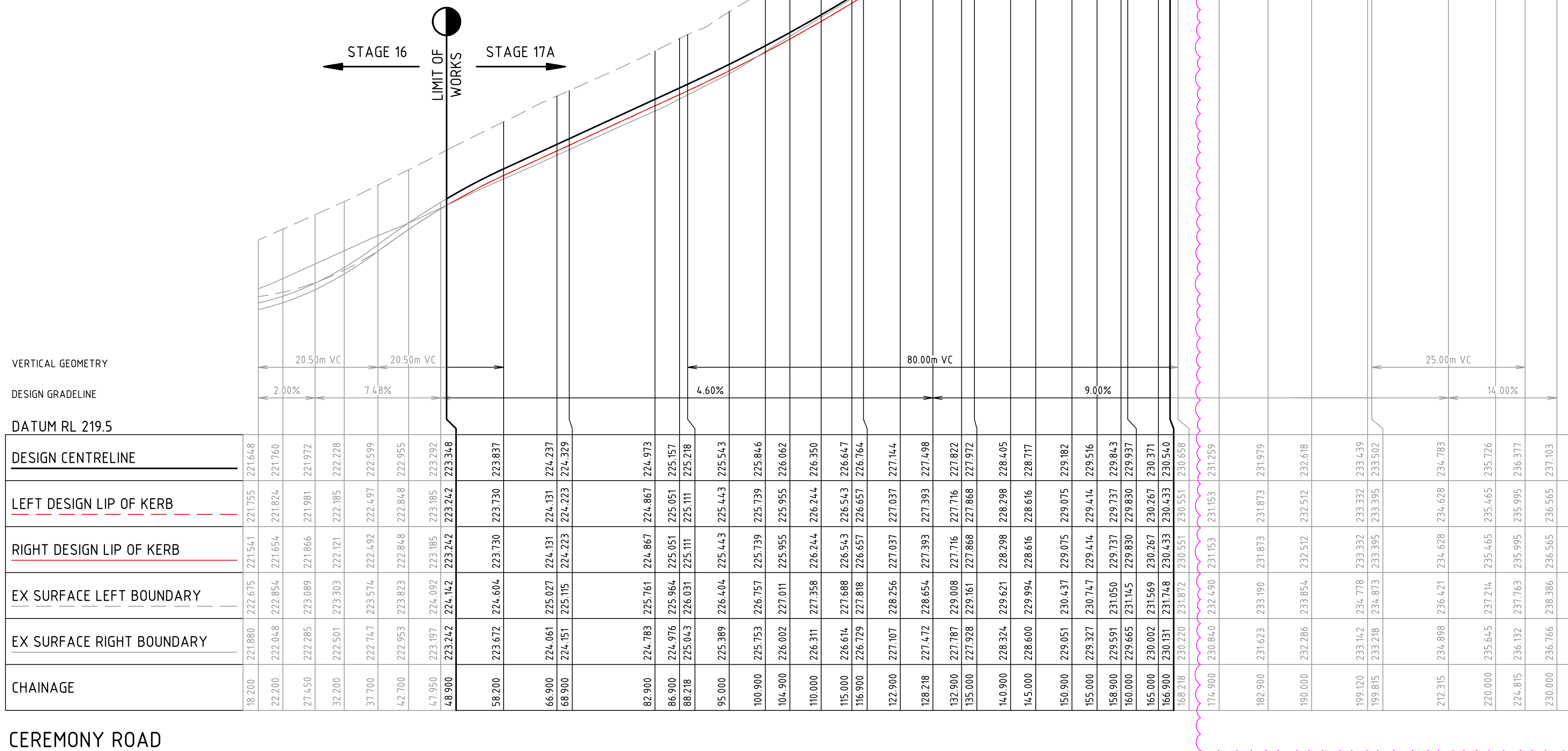
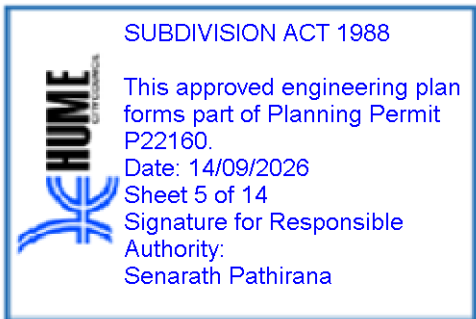
Checked
W. ONG
Date
2nd December 2025

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

PRELIMINARY Drg No 310067-001CR201 Rev B

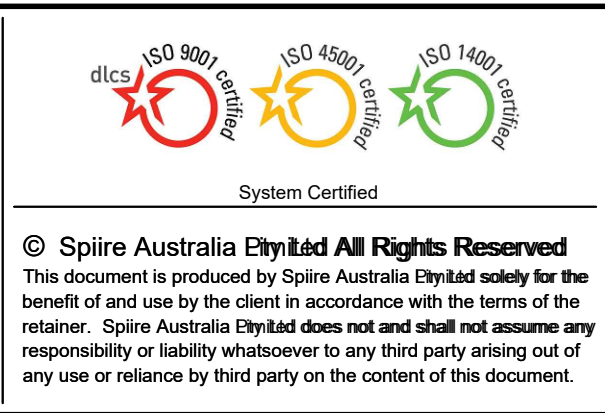
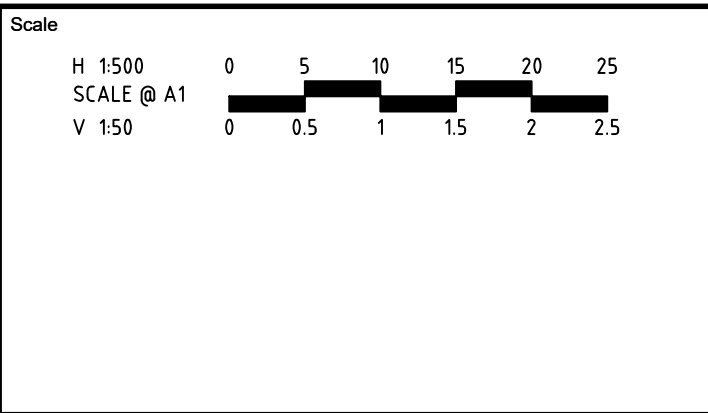


file name: 310067-001CR300.dwg layout name: CR301 plotted by: Deepak Rawat
SHEET 5 OF 14



B

Rev	Amendments	Approved	Date
B	LONG SECTION AMENDED	J.P	09/06/26
A	ISSUED TO COUNCIL	L.T	02/12/25



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

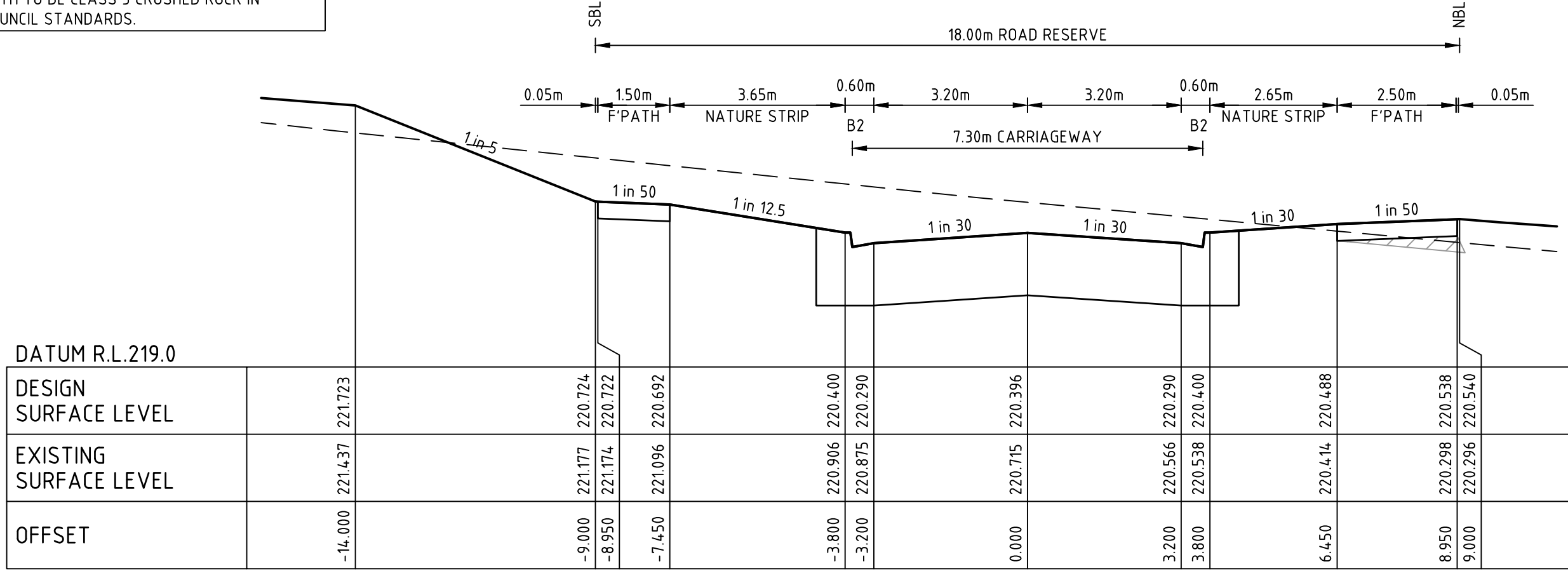
PRELIMINARY

Drg No
310067-001CR301

Rev
B

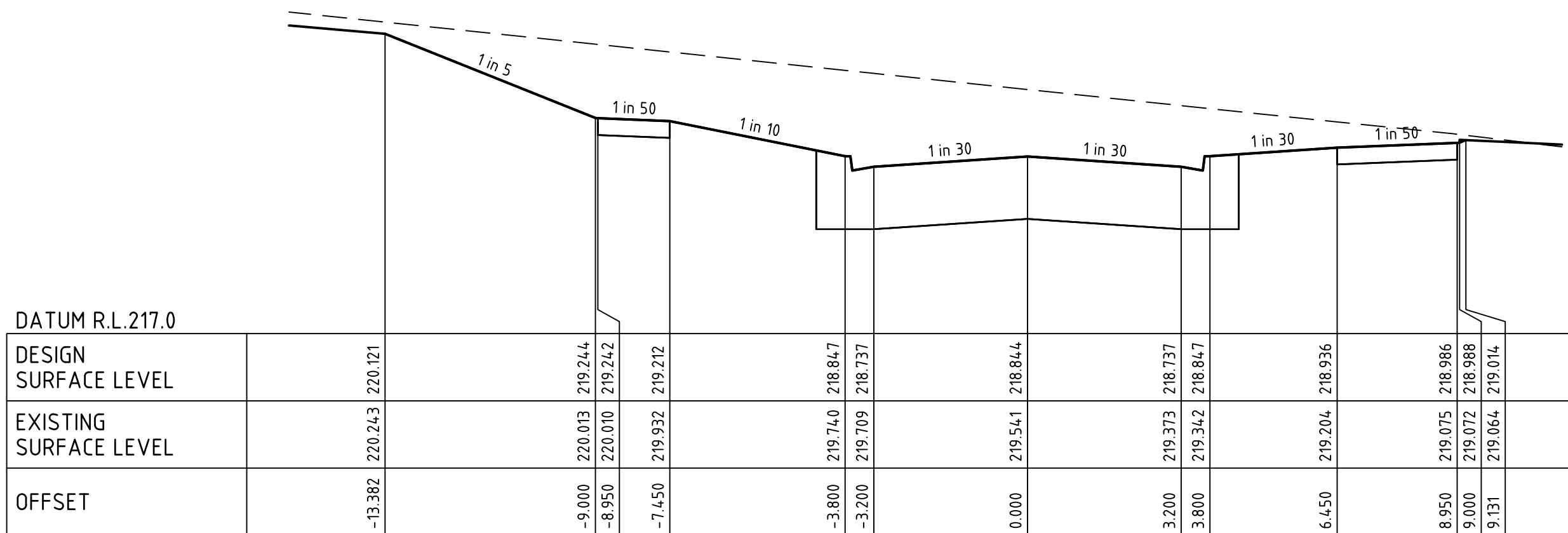
FILLING NOTE
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN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

SUBDIVISION ACT 1988
This approved engineering plan forms part of Planning Permit P22160.
Date: 14/09/2026
Sheet 6 of 14
Signature for Responsible Authority:
Senarath Pathirana



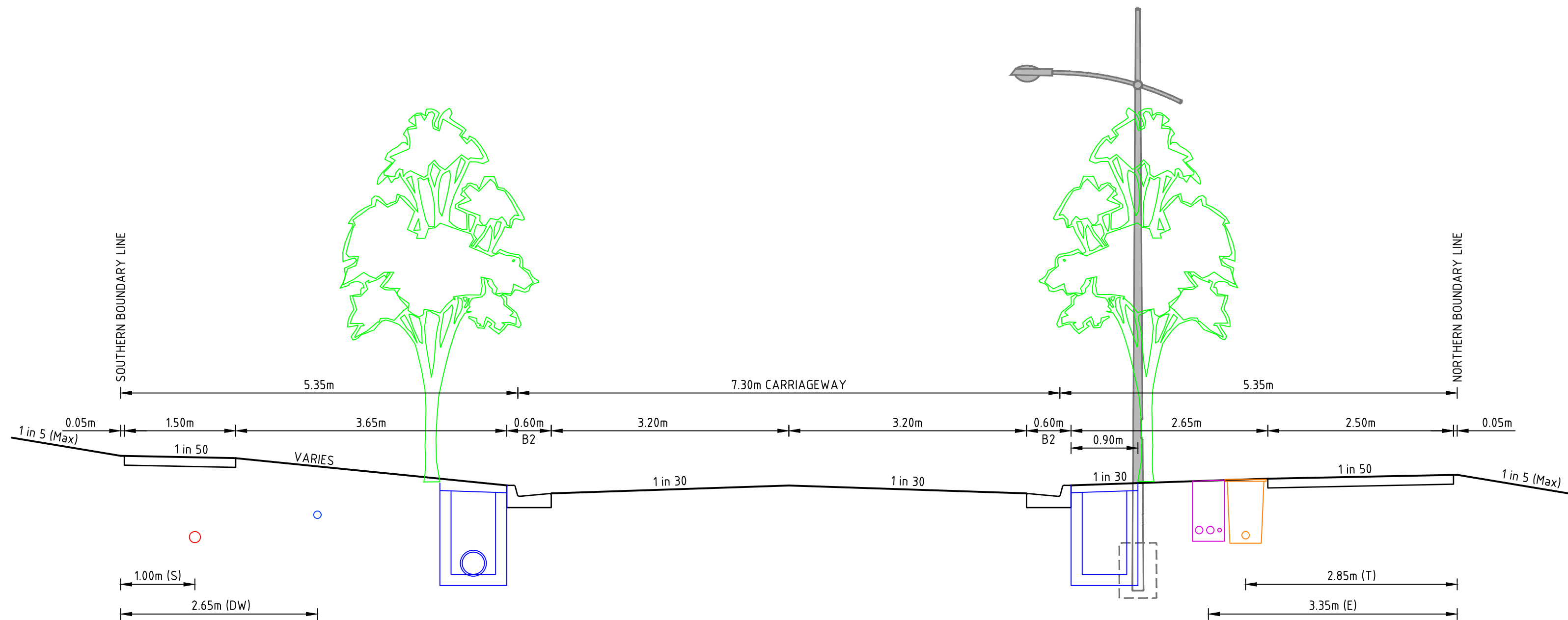
FIRESTICK DRIVE

CH 80.90

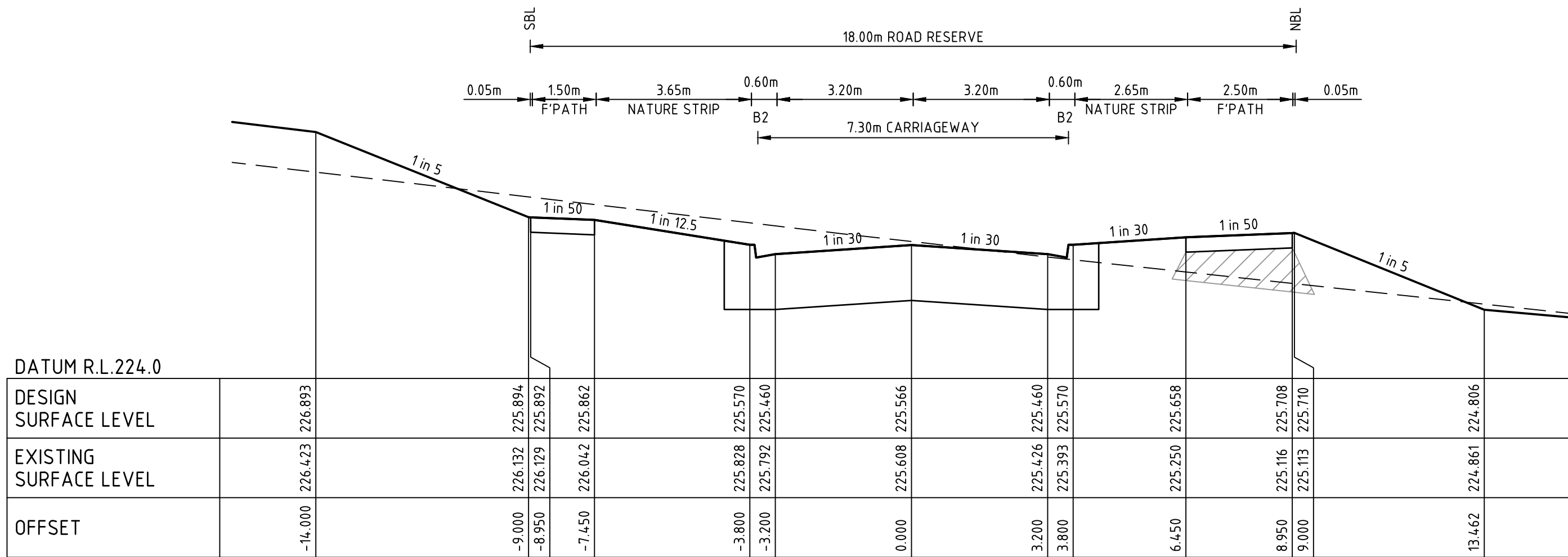


FIRESTICK DRIVE

CH 54.74

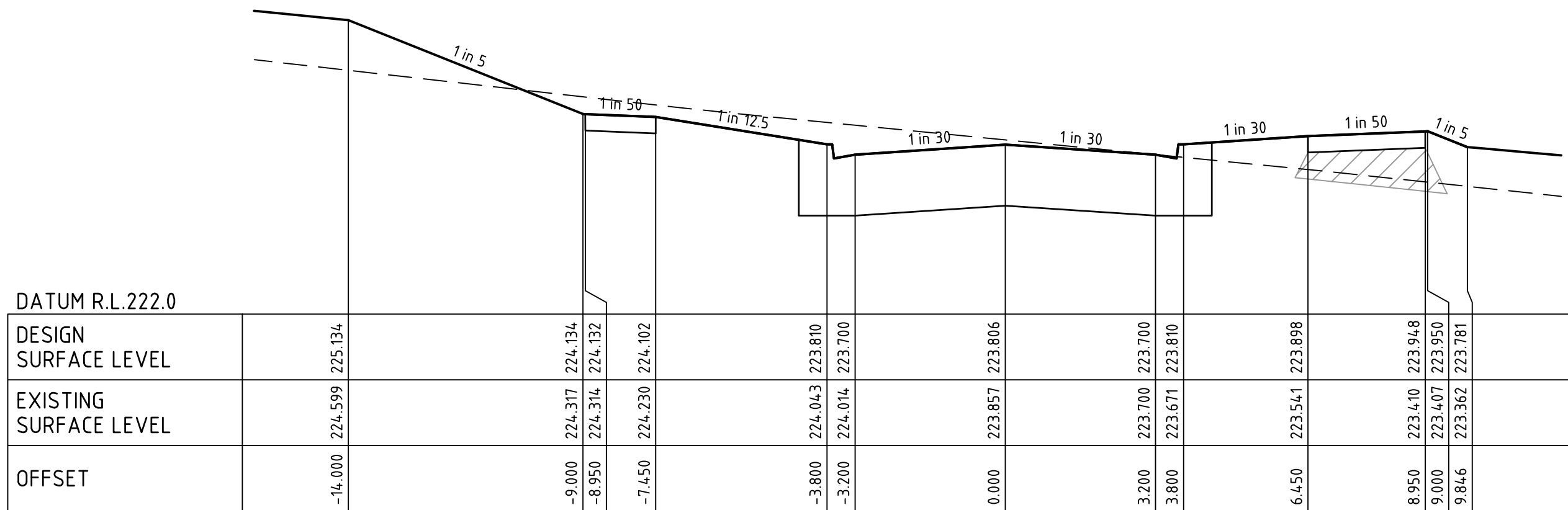


FIRESTICK DRIVE TYPICAL CROSS SECTION
18m WIDE ACCESS STREET



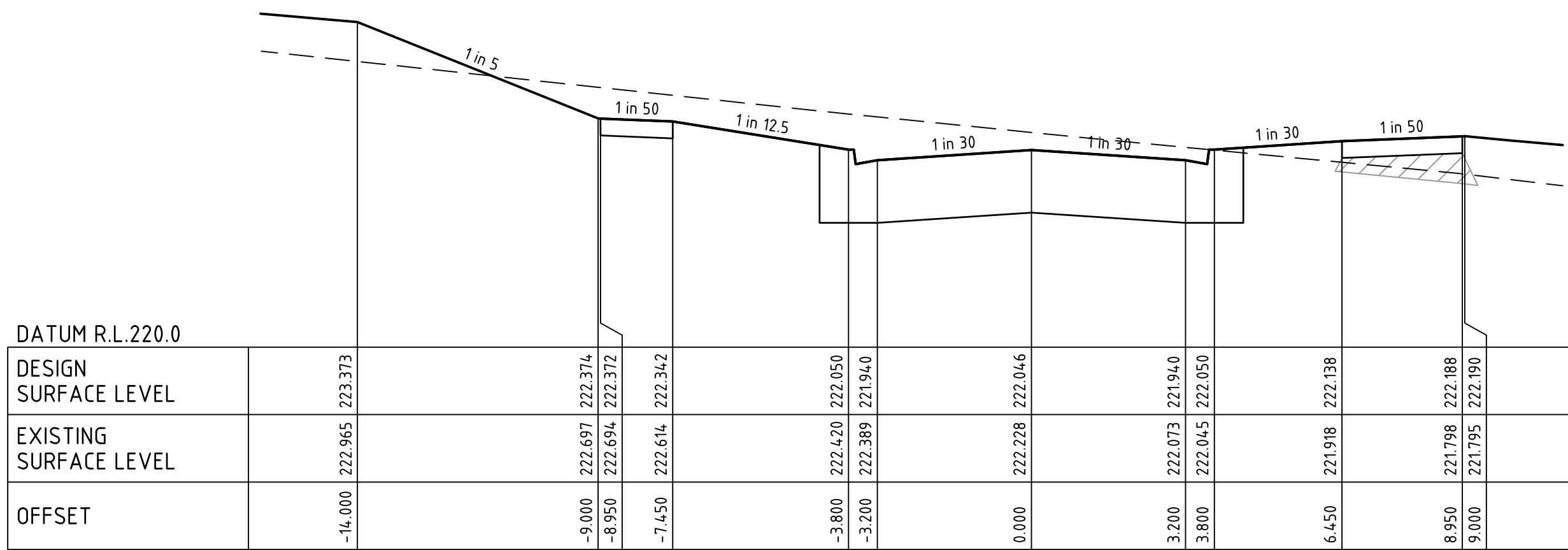
FIRESTICK DRIVE

CH 174.90



FIRESTICK DRIVE

CH 142.90



FIRESTICK DRIVE

CH 110.90

file name: 310067-001CR400.dwg layout name: CR400 plotted by: Deepak Rawat
SHEET 6 OF 14

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

Scale	H 1:100 SCALE @ A1 V 1:50	0 1 2 3 4 5 0 0.5 1 1.5 2 2.5
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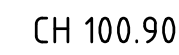
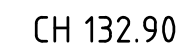
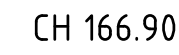
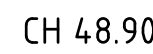
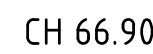
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Designed
L. TRAN
Authorised
L. TRAN

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W. ONG
Date
2nd December 2025

REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES
PRELIMINARY
Drg No 310067-001CR400 Rev A

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.

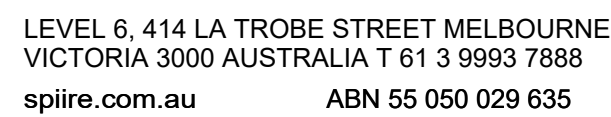
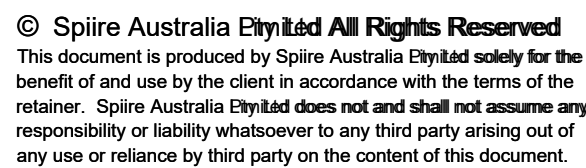


Scale

H 1:100
SCALE @ A1
V 150

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0 0.5 1 1.5 2 2.5



Checked
W.ONG
Date
2nd December 2025

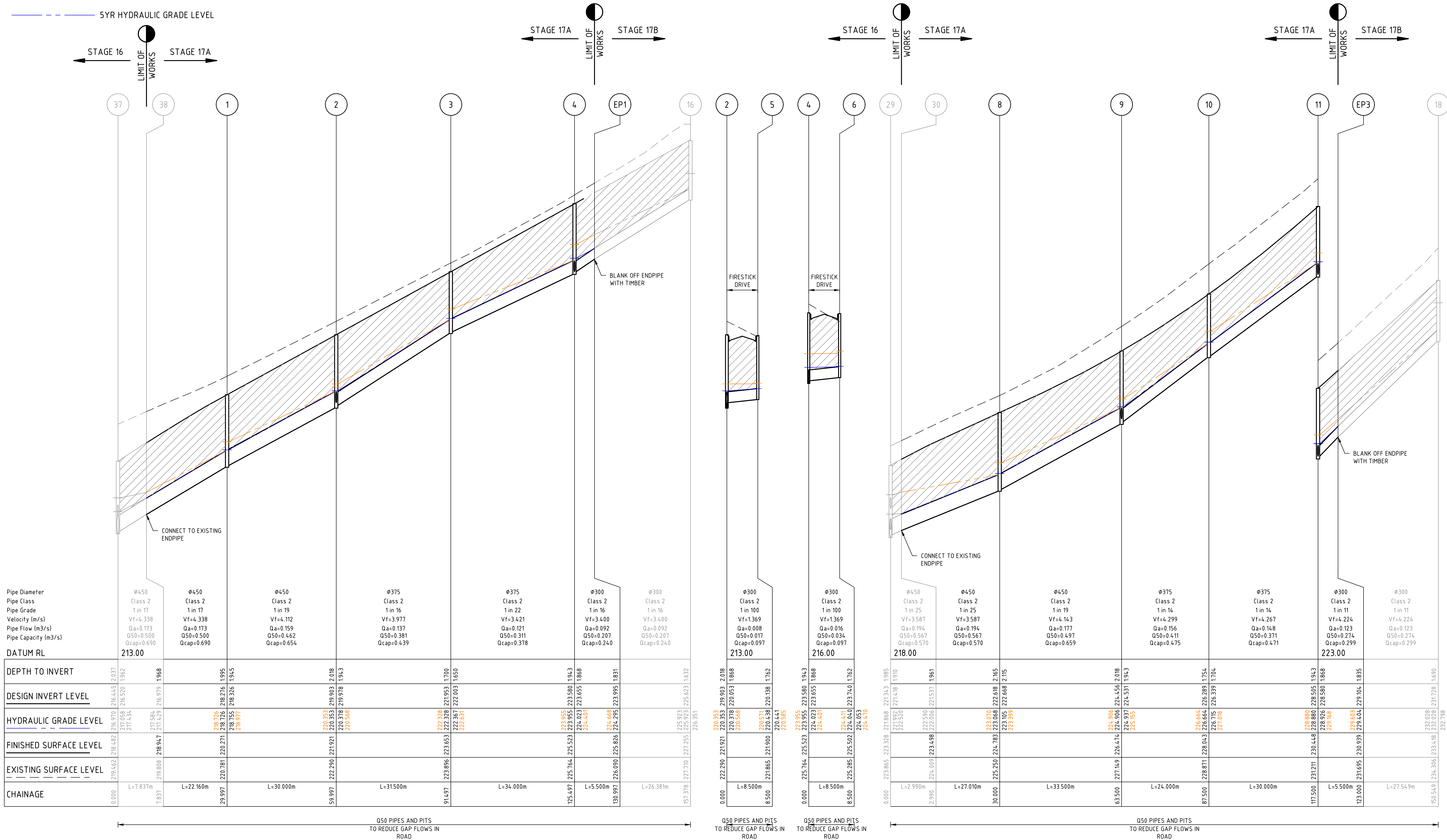
PRELIMINARY Drg No Rev
310067-001CR401 A

file name: 310067-001CR600.dwg layout name: CR600 plotted by: Deepak Rawat
SHEET 8 OF 14

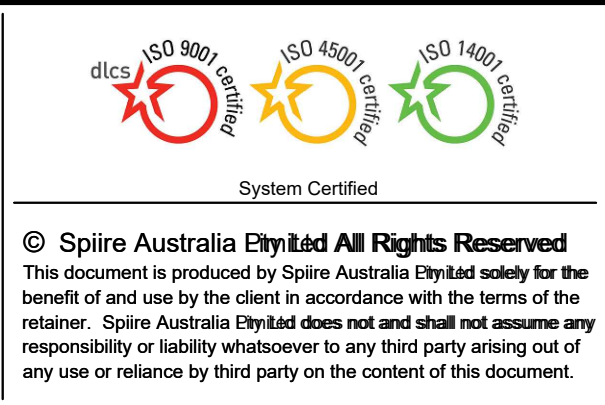
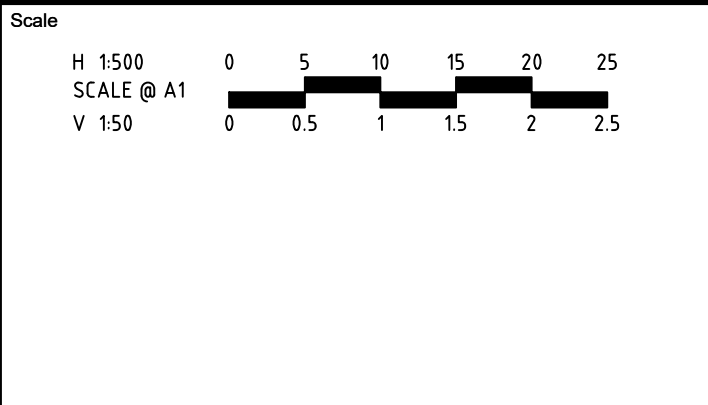
CLASS 2 CRUSHED ROCK BACKFILL

50YR HYDRAULIC GRADE LEVEL

5YR HYDRAULIC GRADE LEVEL



Rev	Issued To Council	L.T	02/12/25
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Rev	Amendments	Approved	Date



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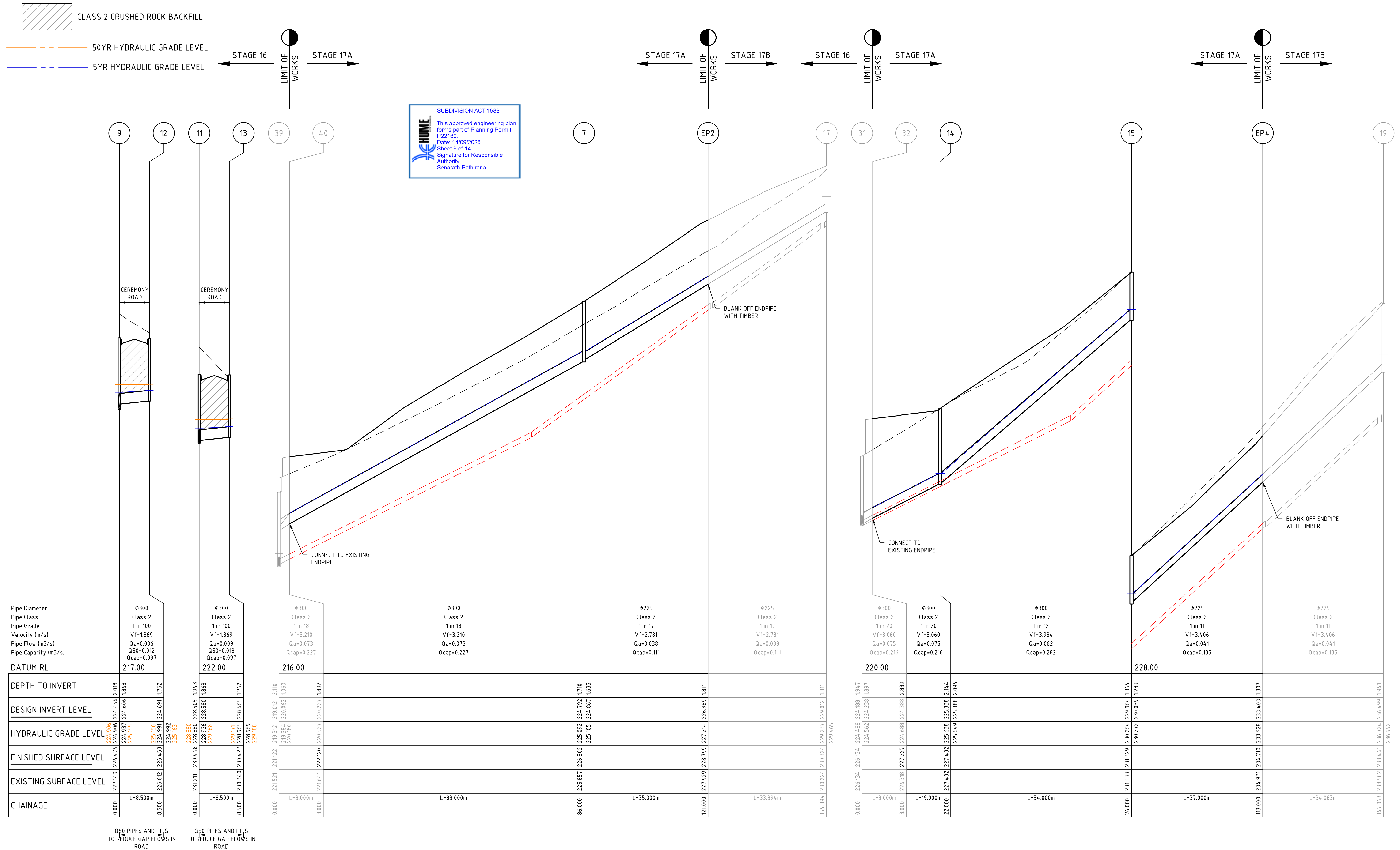
**REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 1**

HUME CITY COUNCIL
VILLAWOOD PROPERTIES

PRELIMINARY

Drg No
310067-001CR600

Rev
A



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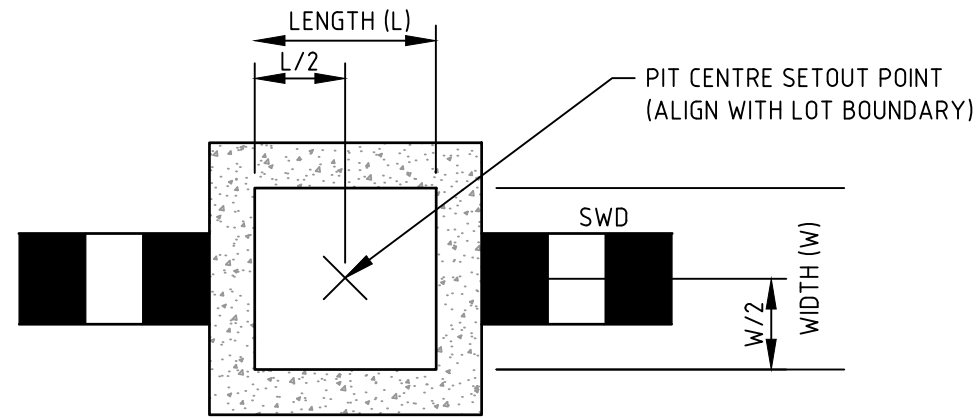
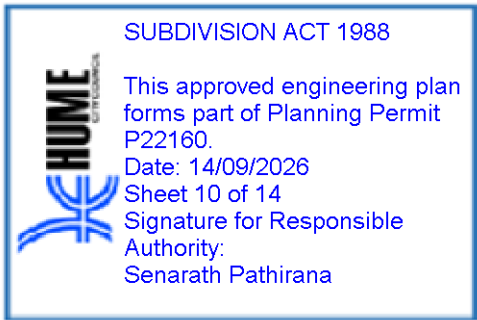
REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

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 EDMC STD FIG 602 & 607
2	DOUBLE SIDE ENTRY PIT	900	900	375	219.978	450	219.903	221.921	2.018	REFER TO EDMC 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 EDMC STD FIG 602 & 605
4	DOUBLE SIDE ENTRY PIT	600	900	300	223.655	375	223.580	225.523	1.943	REFER TO EDMC 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 EDMC STD FIG 602 & 605
6	DOUBLE SIDE ENTRY PIT	600	900			300	223.740	225.502	1.762	REFER TO EDMC STD FIG 602 & 605
7	JUNCTION PIT	600	900	225	224.867	300	224.792	226.502	1.710	REFER TO EDMC 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 EDMC STD FIG 602 & 607
9	DOUBLE SIDE ENTRY PIT	900	900	375	224.531	450	224.456	226.474	2.018	REFER TO EDMC 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 EDMC STD FIG 602 & 605
11	DOUBLE SIDE ENTRY PIT	600	900	300	228.580	375	228.505	230.448	1.943	REFER TO EDMC 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 EDMC STD FIG 602 & 605
13	DOUBLE SIDE ENTRY PIT	600	900			300	228.665	230.427	1.762	REFER TO EDMC STD FIG 602 & 605
14	JUNCTION PIT	900	900	300	225.388	300	225.338	227.482	2.144	REFER TO EDMC STD FIG 607
15	JUNCTION PIT	600	900	225	230.039	300	229.964	231.329	1.364	REFER TO EDMC 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
35	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

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

Scale	 System Certified © Spire Australia Pty Ltd All Rights Reserved This document is produced by Spire Australia Pty Ltd solely for the benefit of and use by the client in accordance with the terms of the retainer. Spire Australia Pty Ltd does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document.
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Designed L. TRAN	Checked W. ONG
Authorised L. TRAN	Date 2nd December 2025

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

PRELIMINARY Drg No 310067-001CR602 Rev A

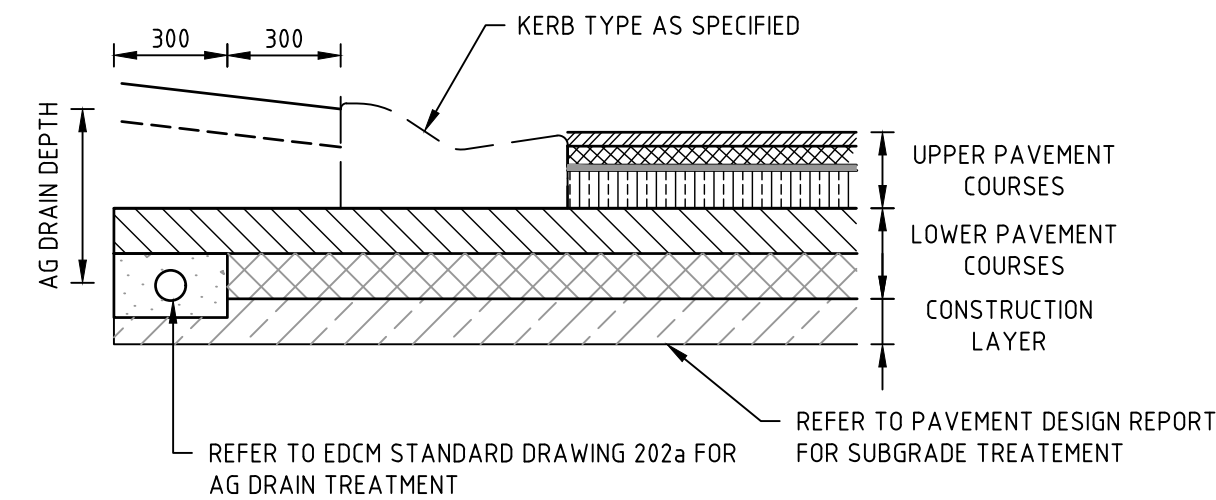
DESIGN PAVEMENT PROFILE

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	

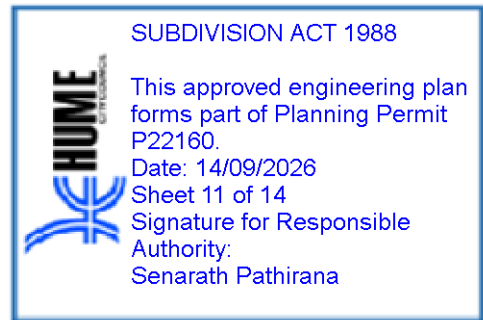
* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

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 EDCM401 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	



TYPICAL SUBSURFACE DRAINAGE DETAIL



PAVEMENT DETAILS

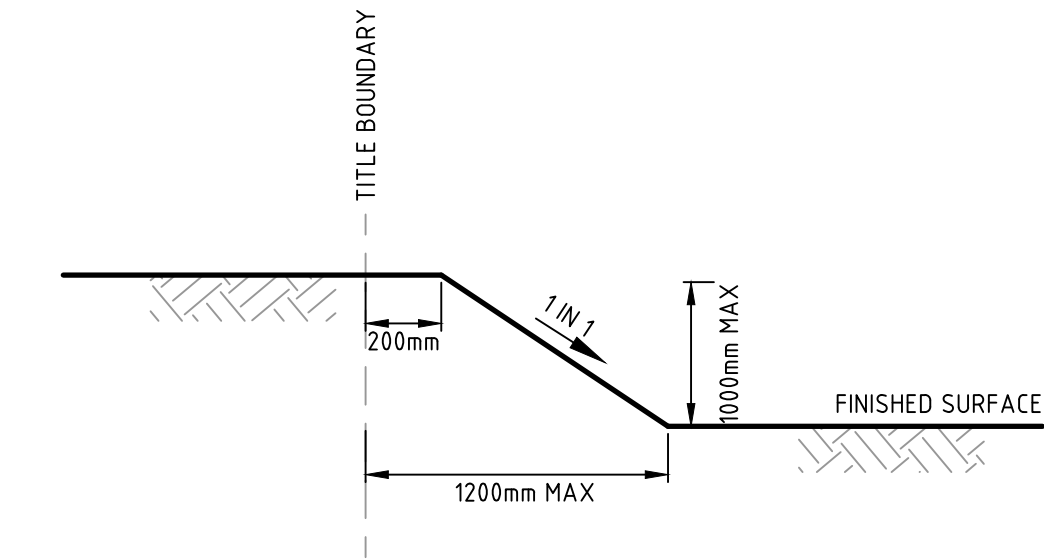
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY CARDNO VICTORIA PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF CARDNO VICTORIA PTY LTD .

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A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

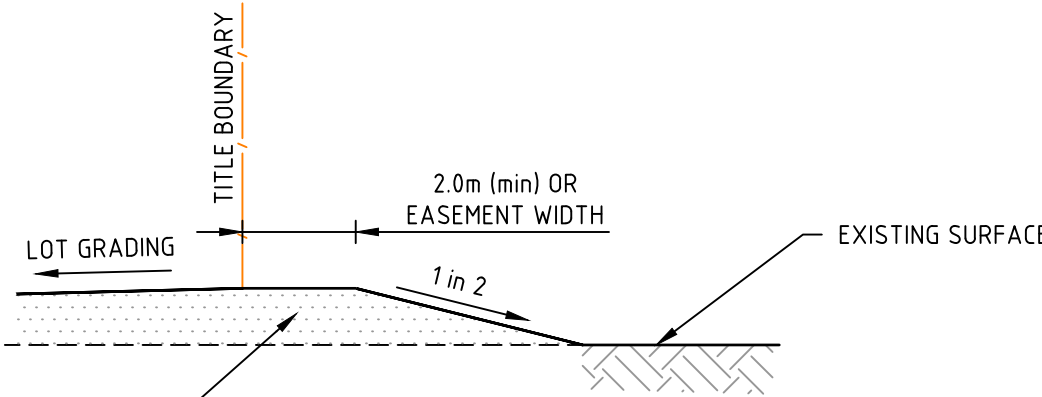
REFER GEOTECH REPORT FOR SUBGRADE REQUIREMENTS. SUBGRADE TO BE PROOF ROLLED PRIOR TO PLACEMENT OF CAPPING LAYER.

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



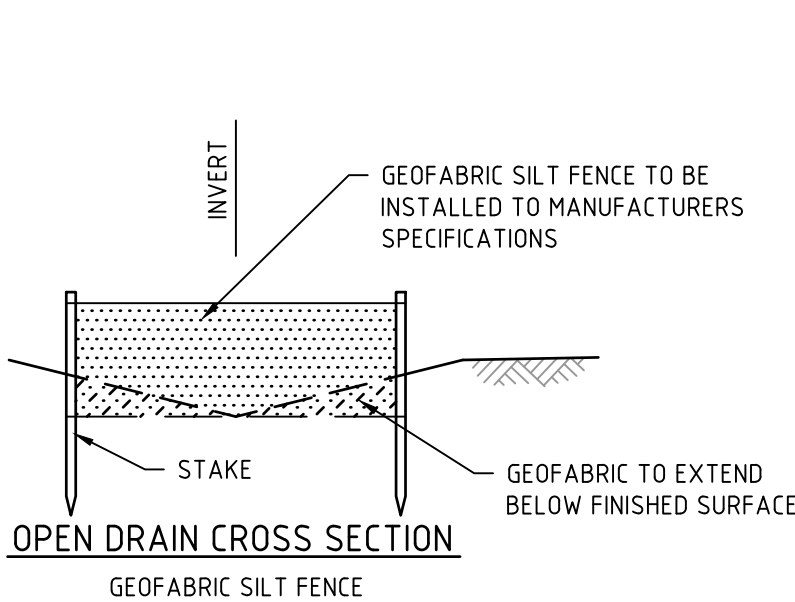
REAR LOT BATTER TYPICAL DETAIL

NOT TO SCALE



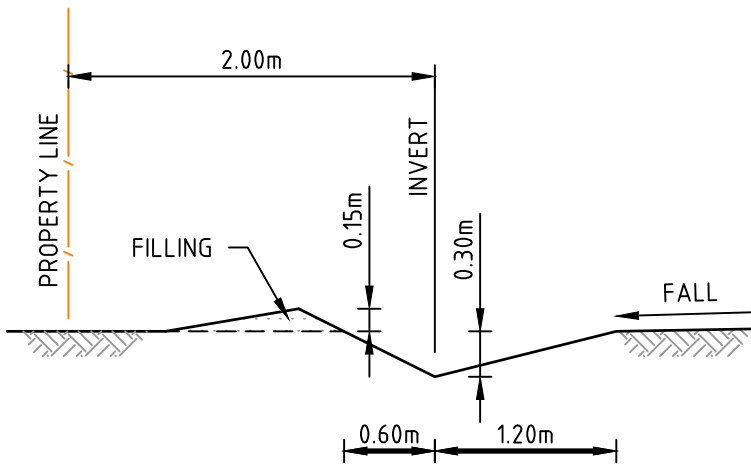
LOT FILLING AT STAGE BOUNDARY

NOT TO SCALE



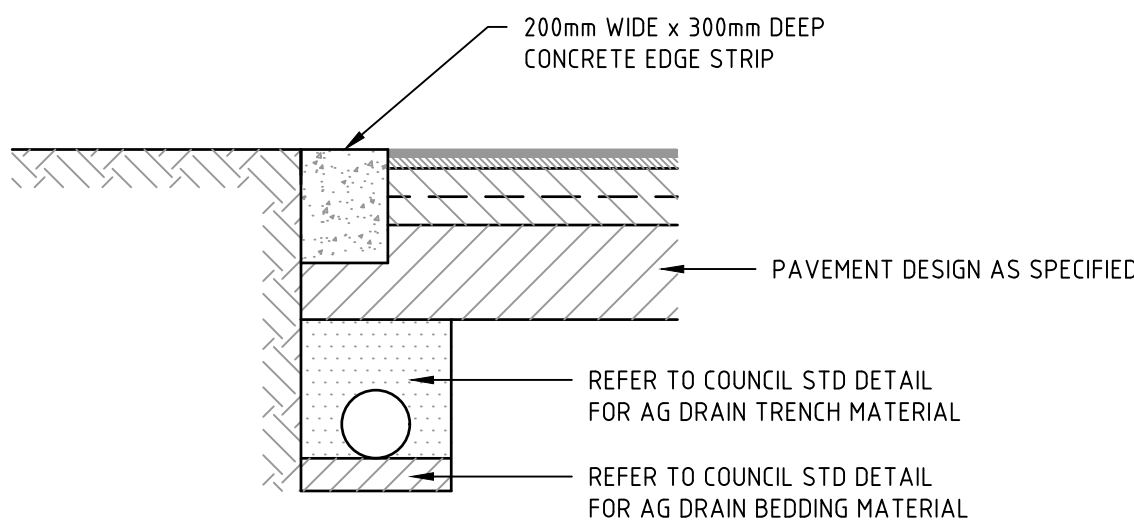
OPEN DRAIN CROSS SECTION

GEOFABRIC SILT FENCE

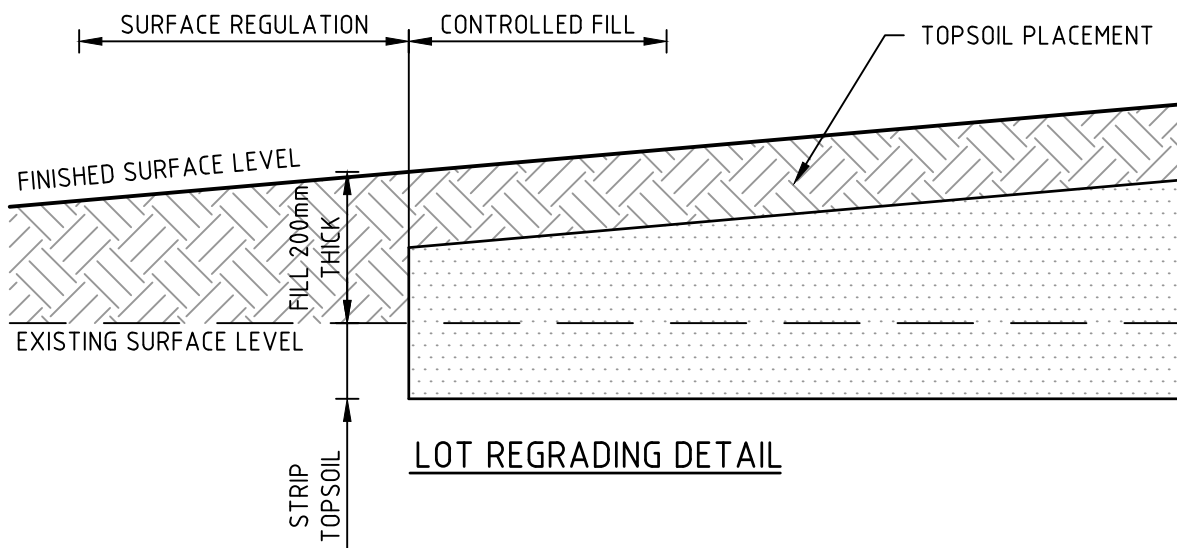


TYPICAL CATCH DRAIN SECTION

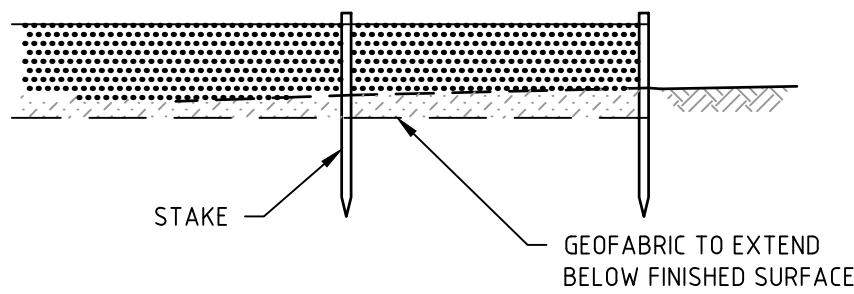
NOT TO SCALE



LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



LOT REGRADING DETAIL



SILT CONTROL FOR LOTS

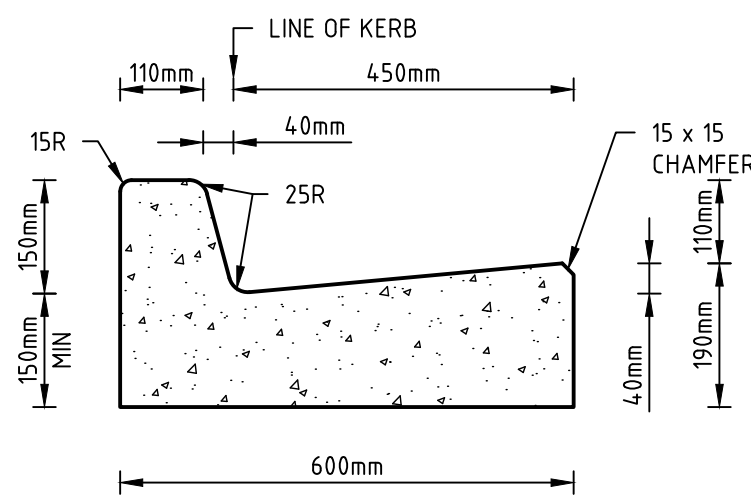
GEOFABRIC SILT FENCE

NOT TO SCALE



PAVEMENT PLAN

H 1750
SCALE @ A1
0 7.5 15 22.5 30 37.5



600 B2

STANDARD KERB PROFILES

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

H 1100
SCALE @ A1
0 1 2 3 4 5

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



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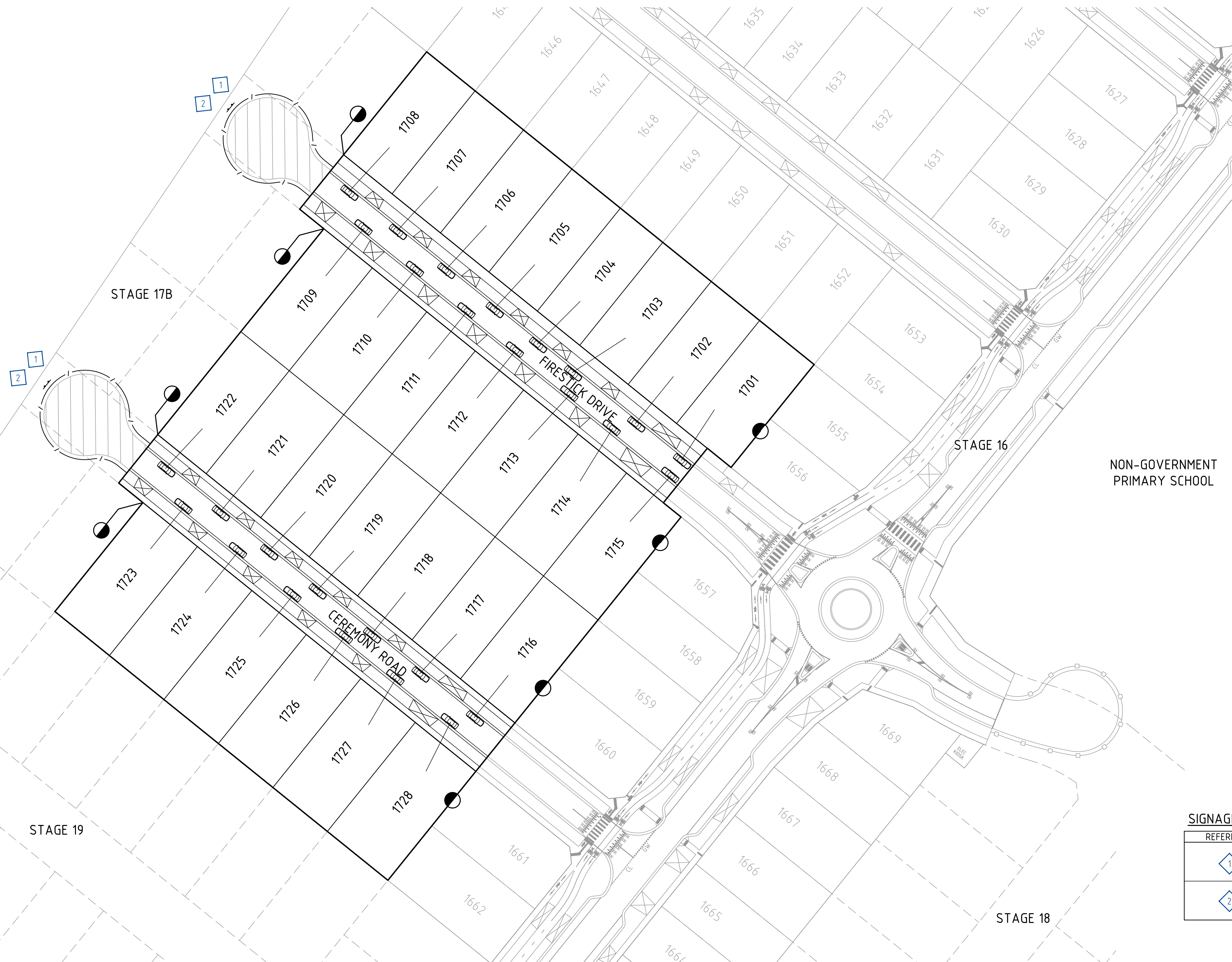
Designed
L. TRAN
Authorised
L. TRAN

Redstone.
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Checked
W. ONG
Date
2nd December 2025

**REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS**
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

PRELIMINARY Drg No 310067-001CR700 Rev A



SIGNAGE SCHEDULE

REFERENCE	SIGN
	 G9-20
	 D4-5

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



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Authorised L. TRAN	



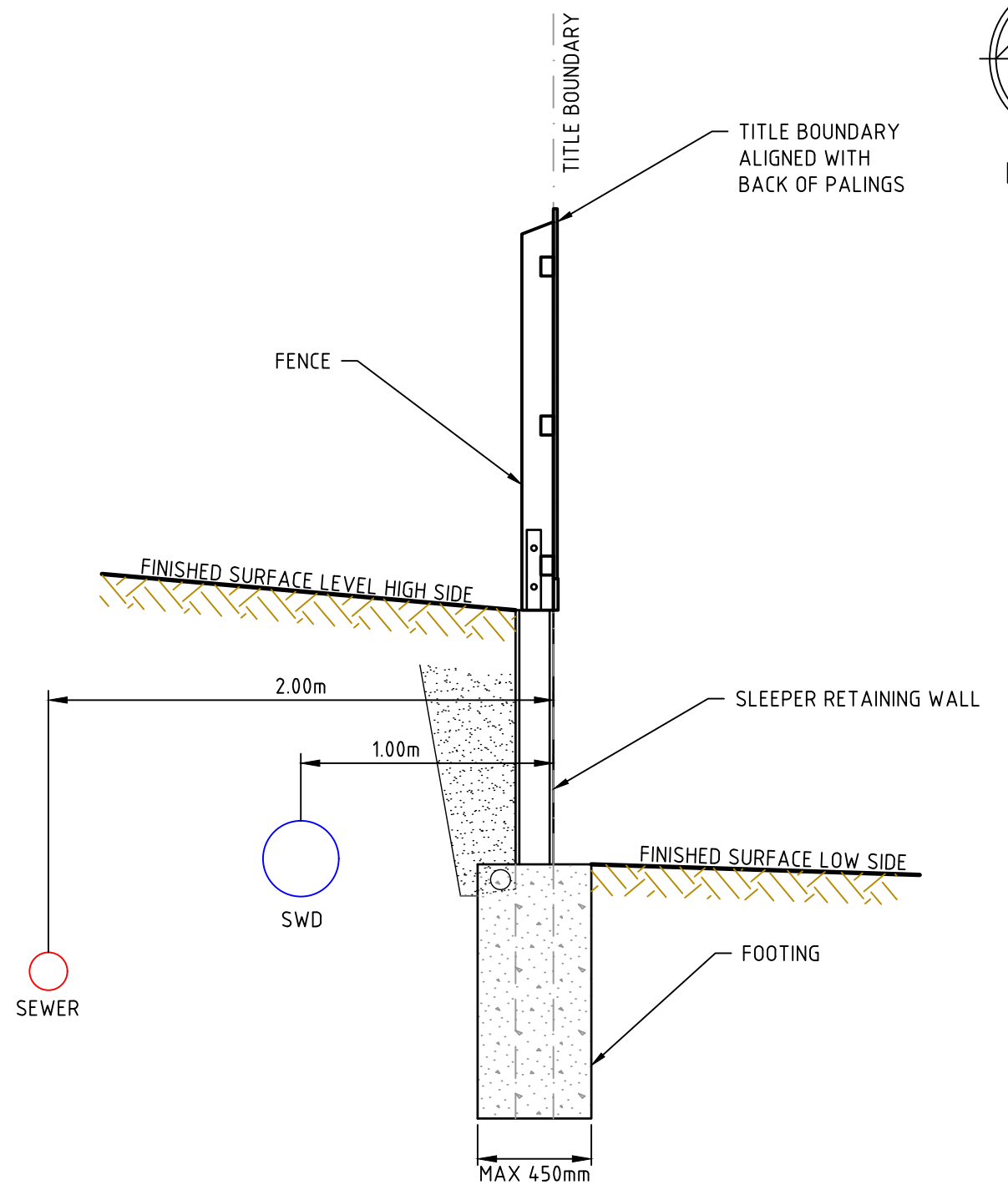
Checked
W.ONG
Date
2nd December 2025

**REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
SIGNAGE AND LINEMARKING
HUME CITY COUNCIL
VILLAWOOD PROPERTIES**

PRELIMINARY Drg No Rev
310067-001CR800 A

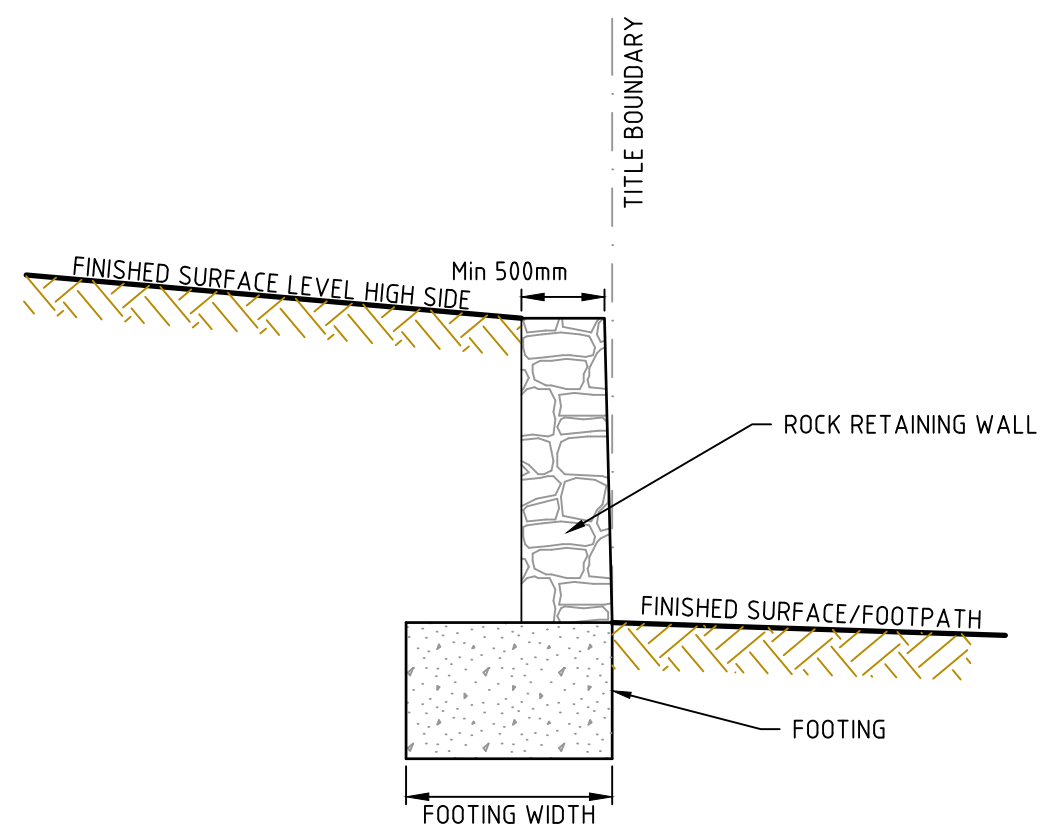
File name 310067-001CR800.dwg layout name CR800 plotted by Deepak Rawat

SUBDIVISION ACT 1988
This approved engineering plan
forms part of Planning Permit
P22160.
Date: 14/09/2026
Sheet 13 of 14
Signature for Responsible
Authority:
Senarath Pathirana



SLEEPER RETAINING WALL TYPICAL DETAIL

NOT TO SCALE



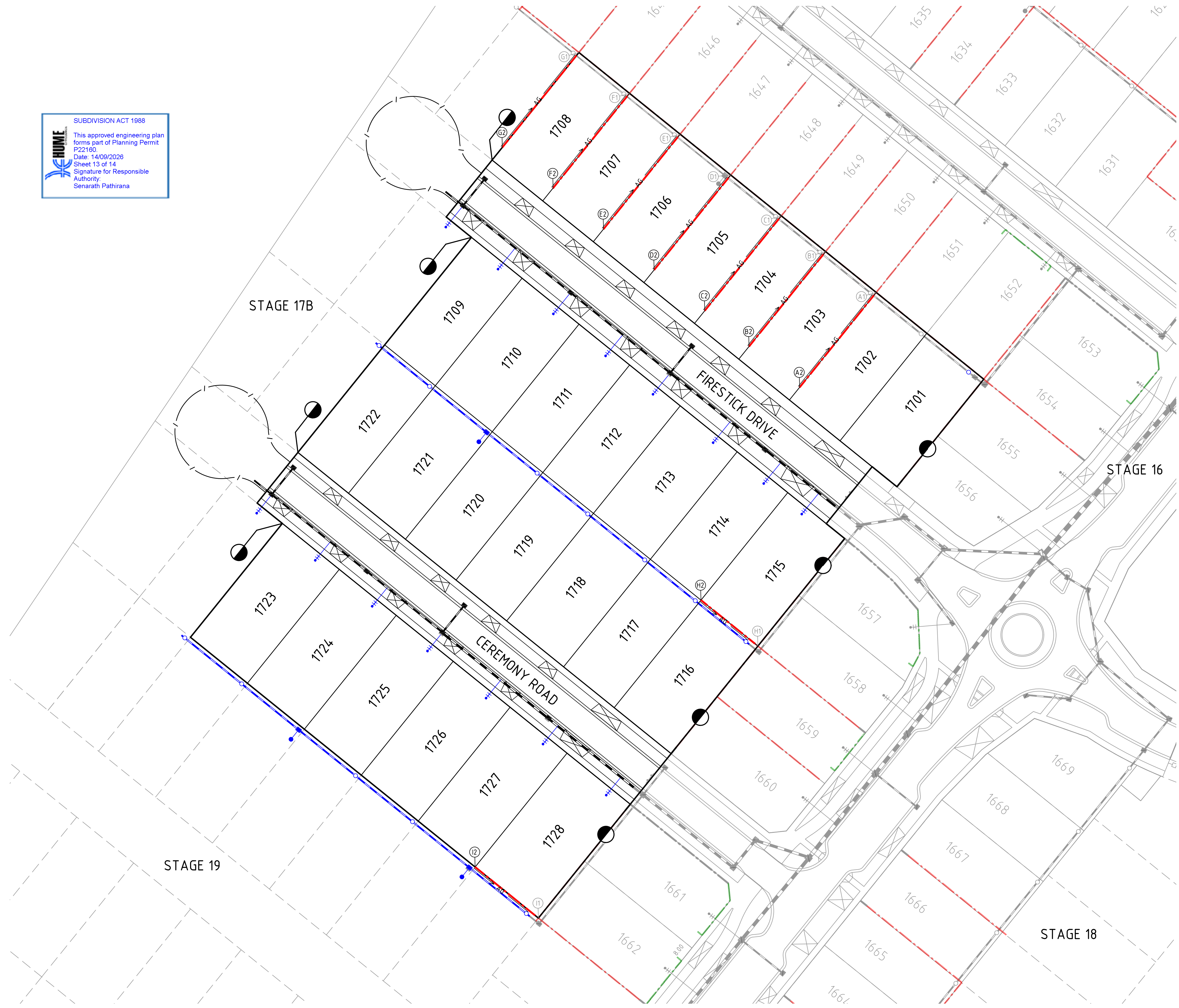
ROCK RETAINING WALL (WITH PROVISION FOR FENCING) TYPICAL DETAIL

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

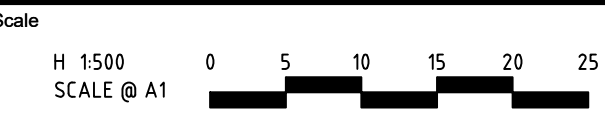
LEGEND		
DESCRIPTION	EXISTING	PROPOSED
RETAINING WALL ROCK WITH FENCE		
RETAINING WALL CONCRETE SLEEPER		
RETAINING WALL ROCK		

- 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



file name: 310067-001CR900.dwg layout name: CR900, plotted by: Deepak Rawat
SHEET 13 OF 14

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



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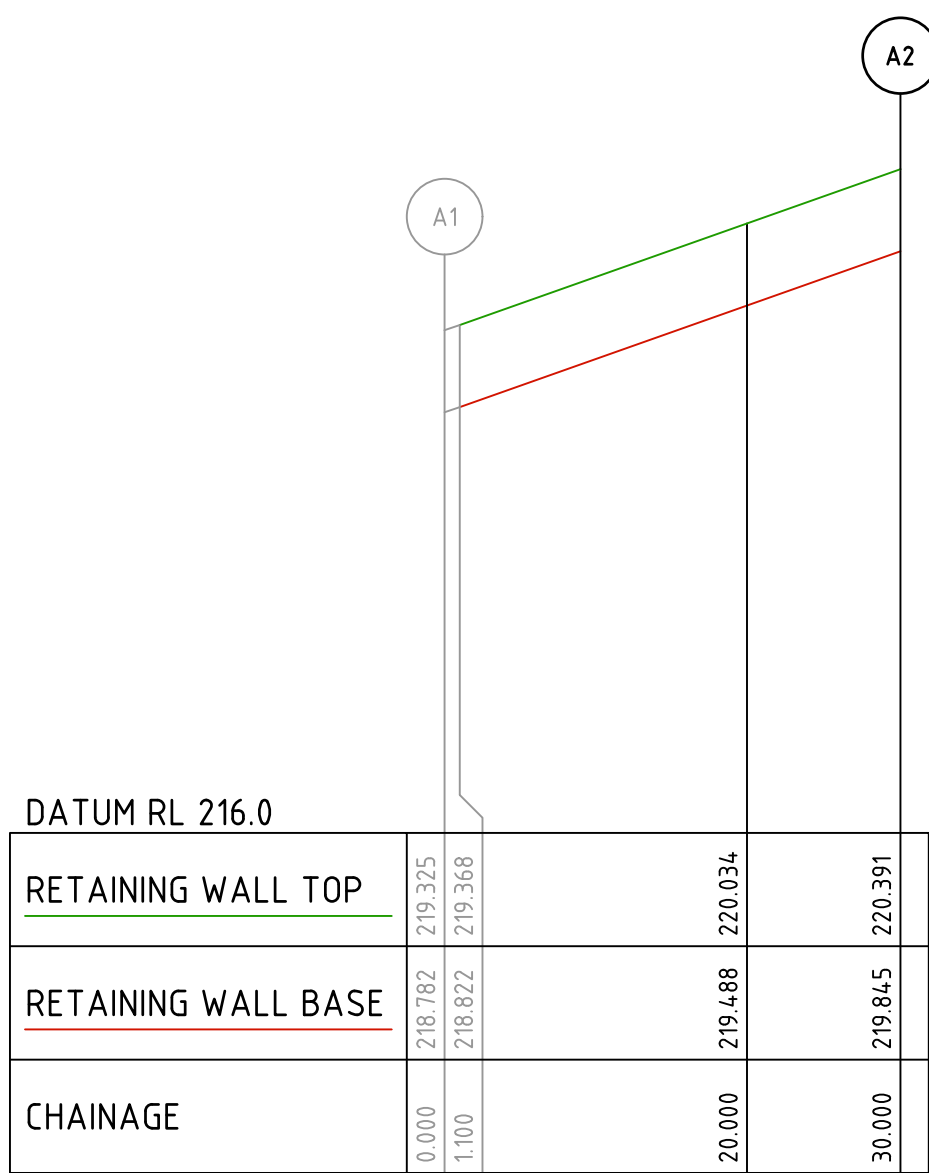


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W. ONG
Date
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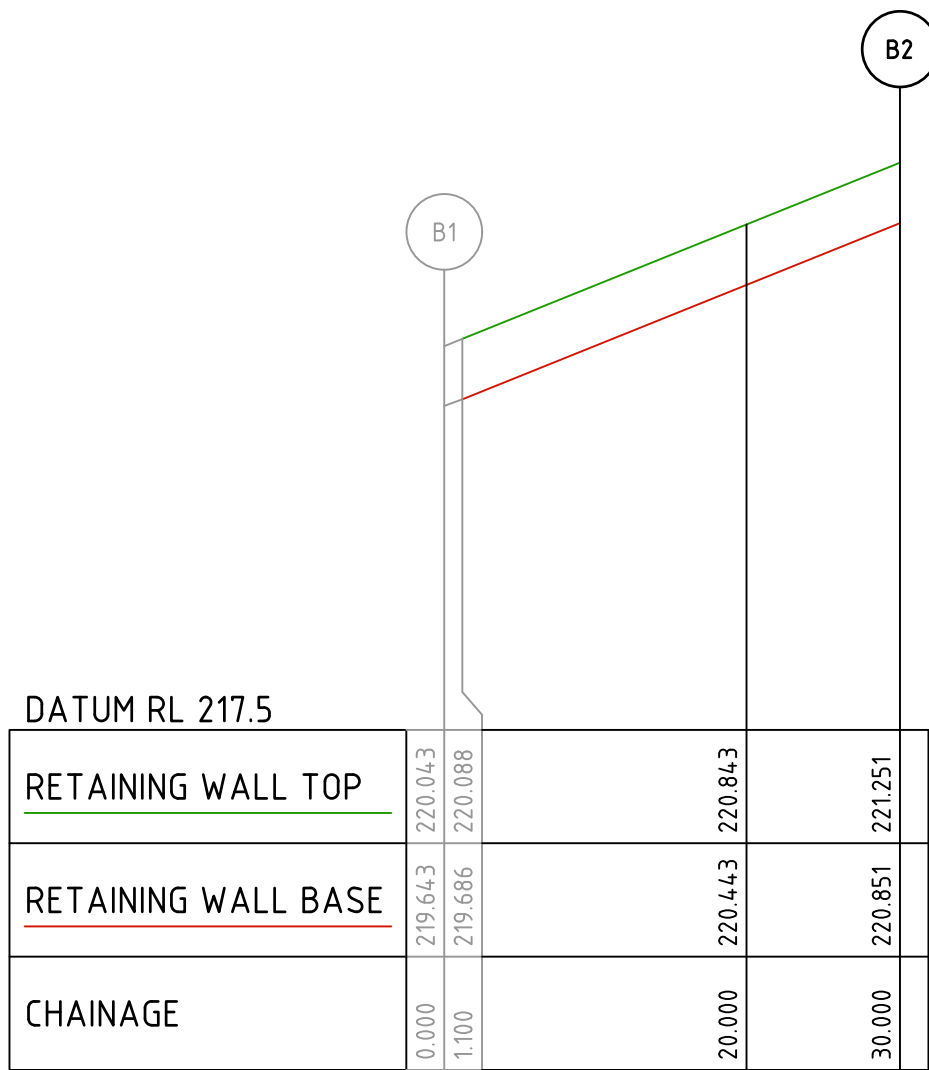
REDSTONE ESTATE
STAGE 17A
ROAD AND DRAINAGE
RETAINING WALLS - SHEET 1
HUME CITY COUNCIL
VILLAWOOD PROPERTIES

PRELIMINARY Drg No 310067-001CR900 Rev A

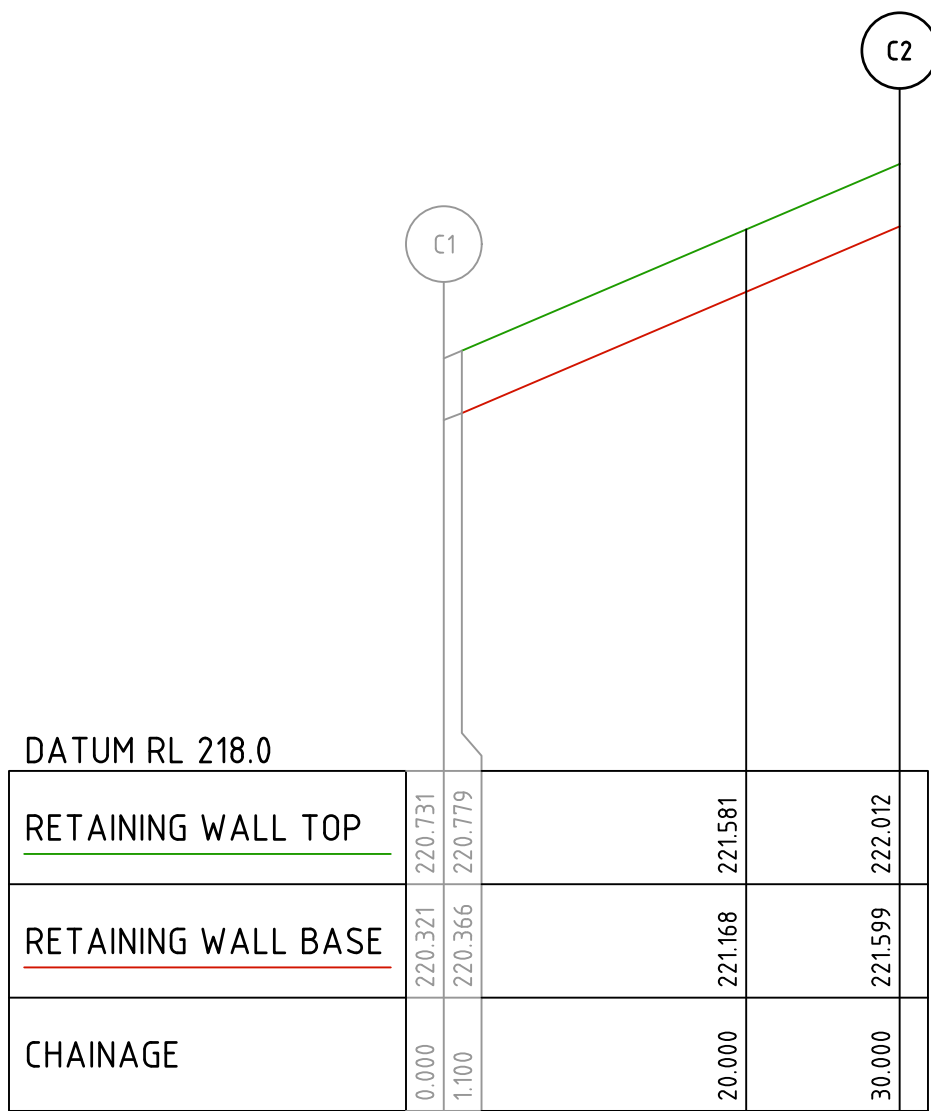
NOTE:
RETAINING WALL LEVELS PROVIDED IN LONG SECTION ABOVE ARE TO
FINISHED SURFACE LEVELS. RETAINING WALLS BUILT ON SITE NEED TO
CATER FOR LEVELS SHOWN.



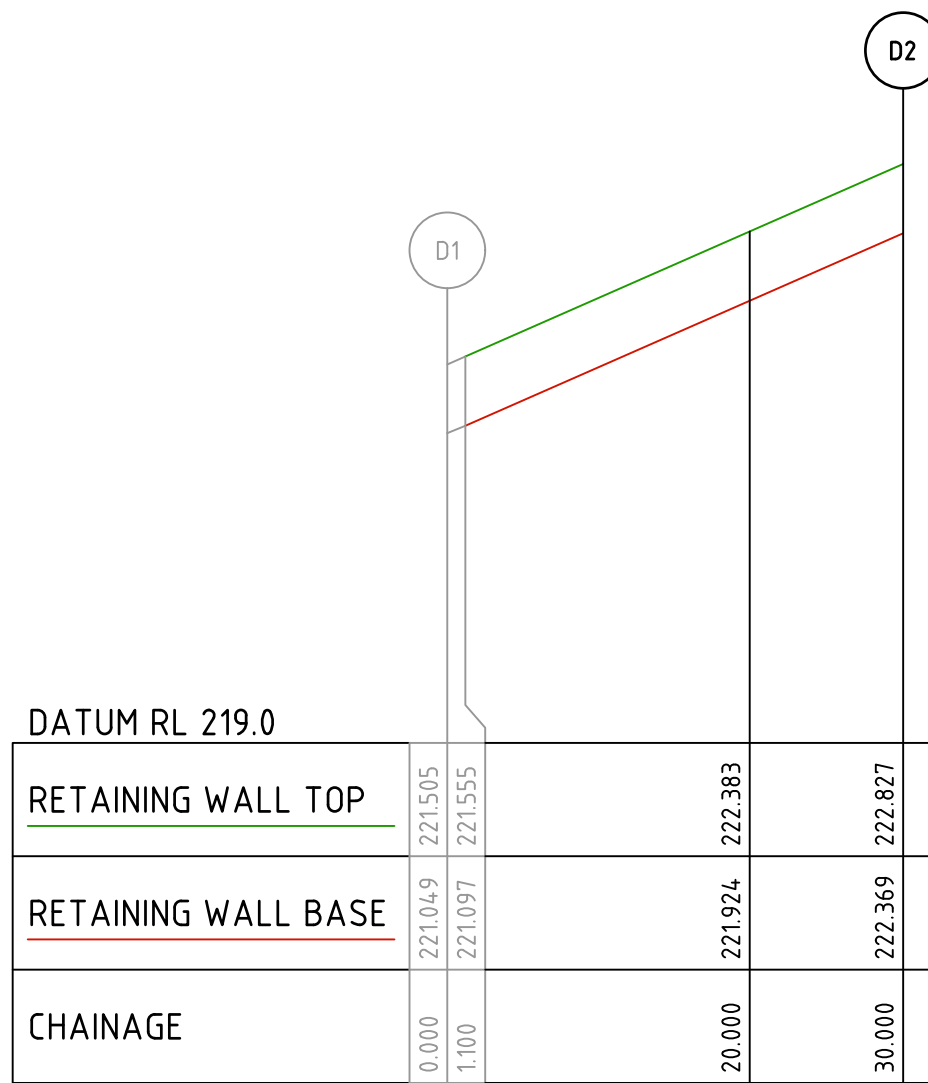
RETAINING WALL A



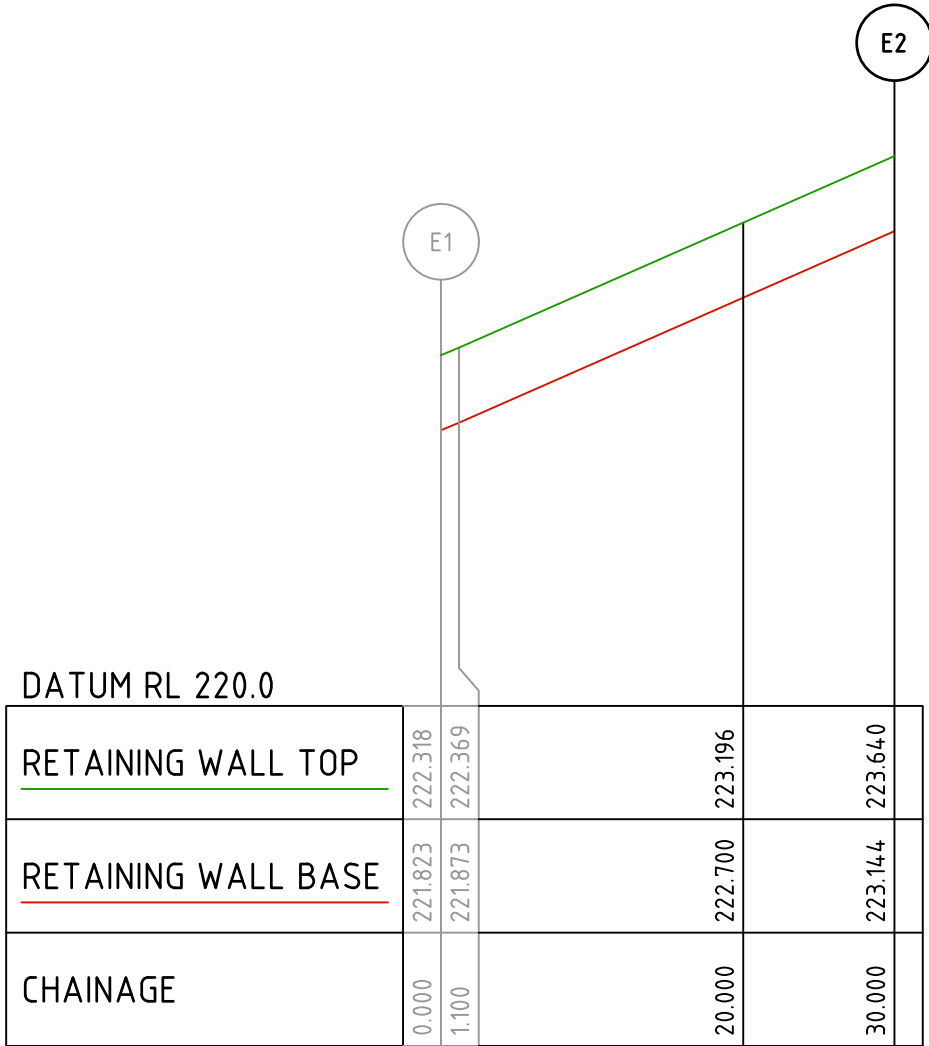
RETAINING WALL B



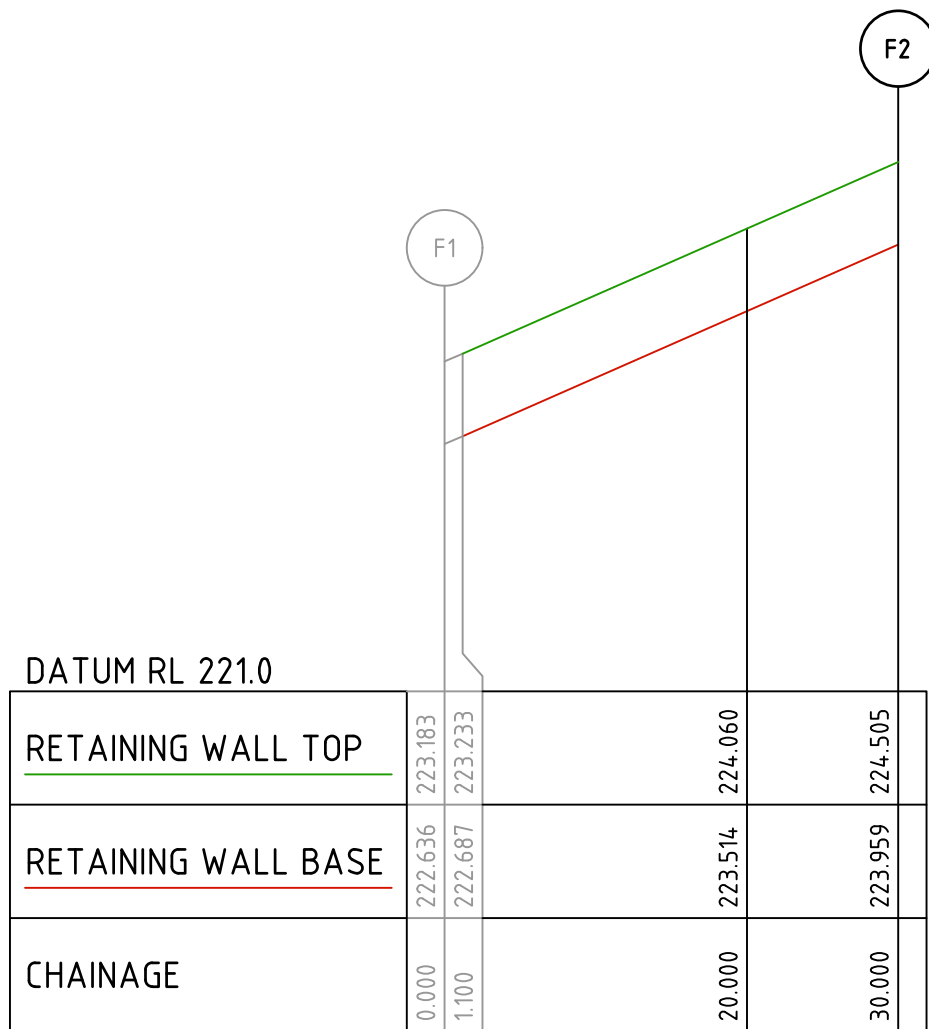
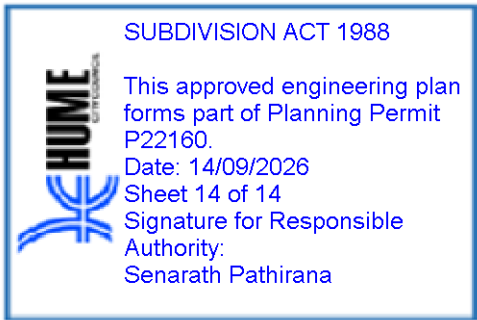
RETAINING WALL C



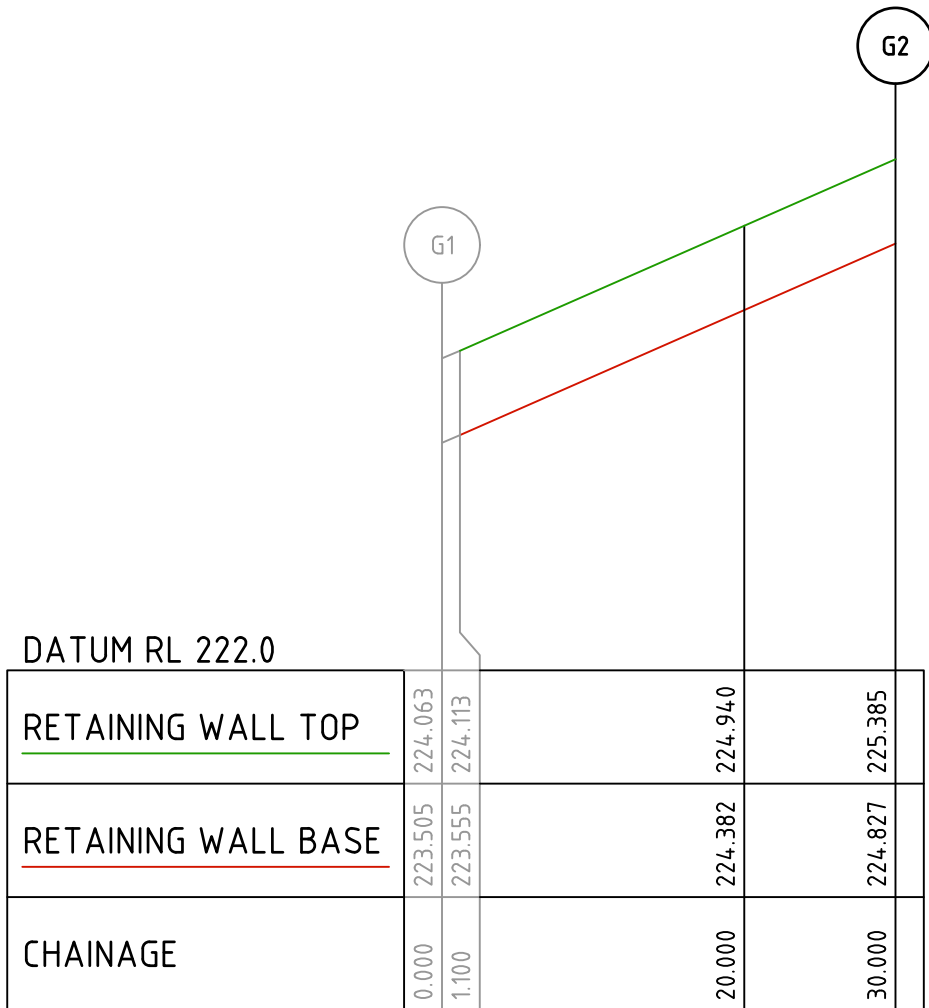
RETAINING WALL D



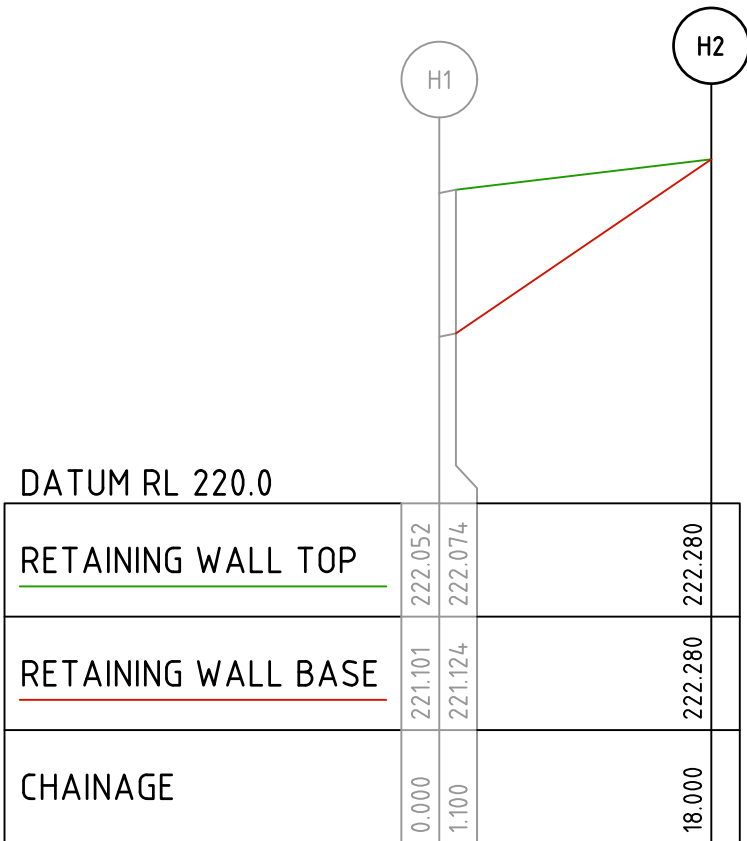
RETAINING WALL E



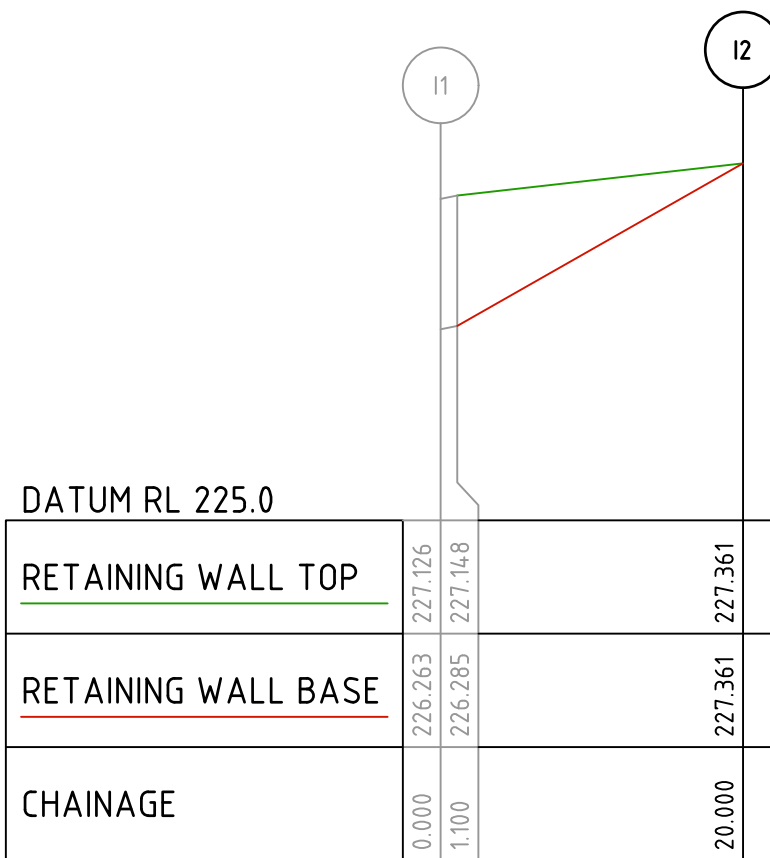
RETAINING WALL F



RETAINING WALL G



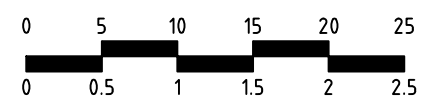
RETAINING WALL H



RETAINING WALL I

Scale

H 1:500
SCALE @ A1
V 1:50



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

PRELIMINARY Drg No 310067-001CR901 Rev **A**