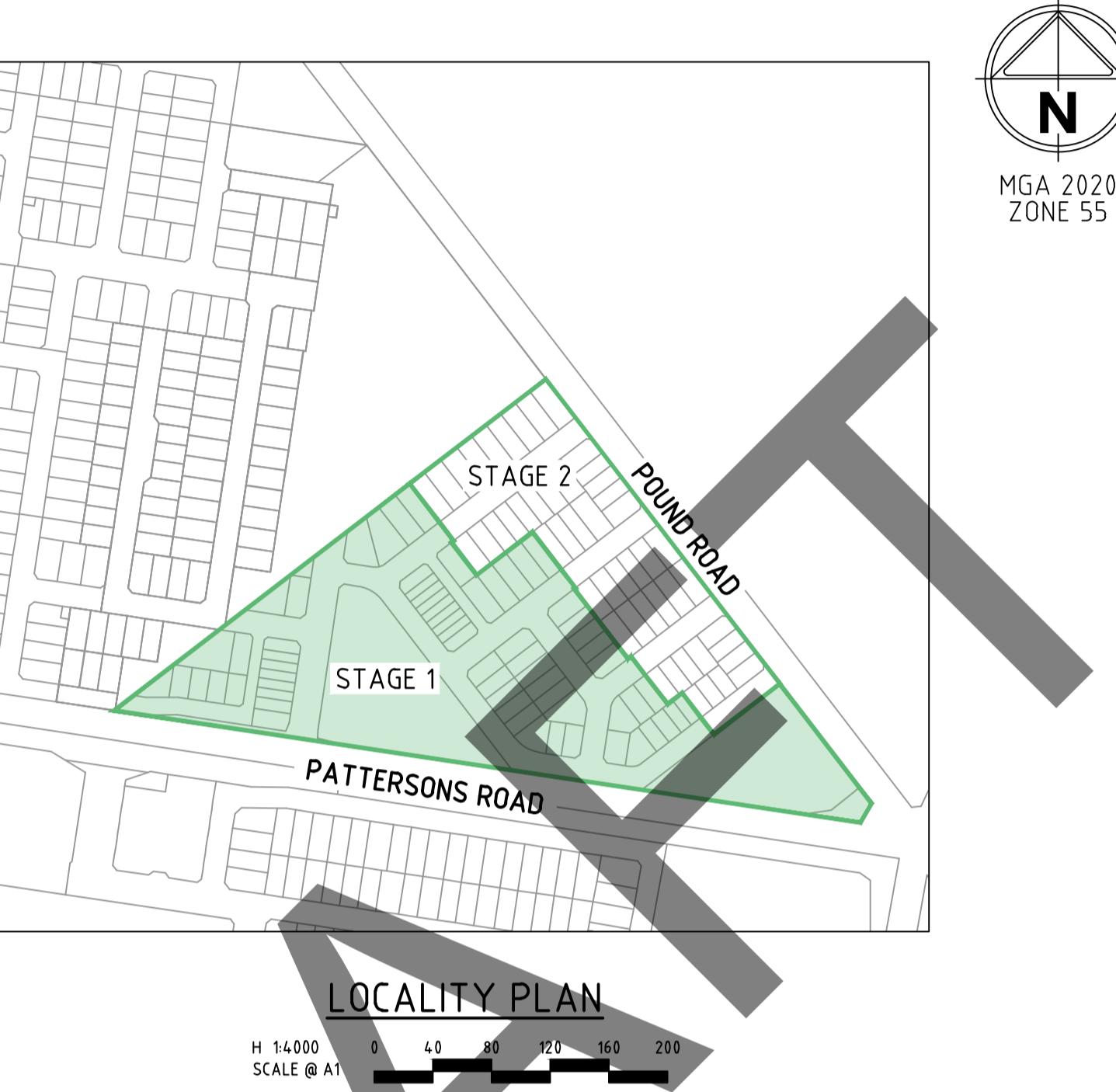


# ALMA ESTATE STAGE 1 SIG GROUP

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MGA 2020, ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN  $\pm 0.05$ m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR THEIR REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. 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 MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF T.B.M'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150m DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELLED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCILS PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE,
  - Ø50mm. CLASS 12 P.V.C. - SINGLE SERVICE
  - Ø100mm. CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
 WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
  - ROAD PAVEMENT - 0.80m
  - VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- GAS AND WATER CONDUITS TO BE LOCATED AS SHOWN, REFER TO WATER DESIGN FOR CONDUIT OFFSETS
- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.



## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SCALE @ A1	REVISION
CR100	GENERAL NOTES	1	B
CR200	ROAD LAYOUT PLAN - SHEET 1	2	B
CR201	ROAD LAYOUT PLAN - SHEET 2	3	B
CR202	SERVICES PLAN - SHEET 1	4	B
CR203	SERVICES PLAN - SHEET 2	5	B
CR300	ROAD LONGITUDINAL SECTIONS - SHEET 1	6	B
CR301	ROAD LONGITUDINAL SECTIONS - SHEET 2	7	B
CR302	ROAD LONGITUDINAL SECTIONS - SHEET 3	8	B
CR400	ROAD CROSS SECTIONS - SHEET 1	9	B
CR401	ROAD CROSS SECTIONS - SHEET 2	10	B
CR402	ROAD CROSS SECTIONS - SHEET 3	11	B
CR403	ROAD CROSS SECTIONS - SHEET 4	12	B
CR404	ROAD CROSS SECTIONS - SHEET 5	13	B
CR405	ROAD CROSS SECTIONS - SHEET 6	14	B
CR406	ROAD CROSS SECTIONS - SHEET 7	15	B
CR500	INTERSECTION DETAILS - SHEET 1	16	B
CR501	INTERSECTION DETAILS - SHEET 2	17	B
CR502	INTERSECTION DETAILS - SHEET 3	18	B
CR503	INTERSECTION DETAILS - SHEET 4	19	B
CR504	INTERSECTION DETAILS - SHEET 5	20	B
CR505	INTERSECTION DETAILS - SHEET 6	21	B
CR600	DRAINAGE LONG SECTIONS - SHEET 1	22	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	23	B
CR601	DRAINAGE LONG SECTIONS - SHEET 3	24	B
CR603	DRAINAGE PIT SCHEDULE & DETAILS	25	B
CR700	PAVEMENT & TYPICAL DETAILS	26	B
CR800	SIGNAGE & LINEMARKING PLAN - SHEET 1	27	B
CR801	SIGNAGE & LINEMARKING PLAN - SHEET 2	28	B



**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.

Scale			
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1:500	1:250	1:100	1:50
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AS/NZS ISO 45001:2018  
AS/NZS ISO 14001:2015  
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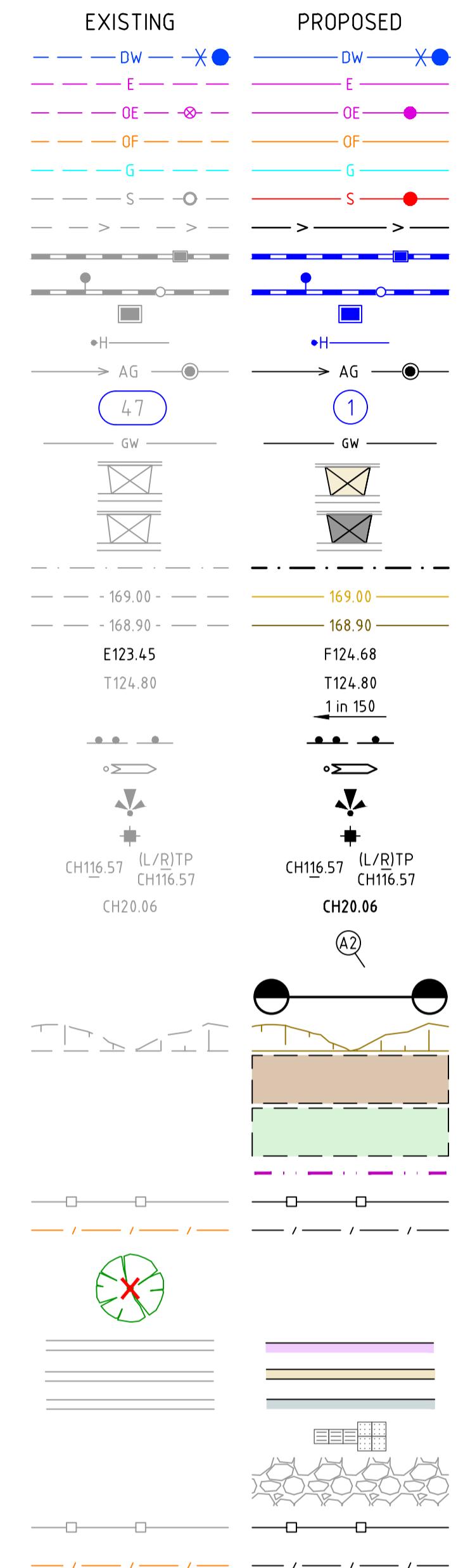
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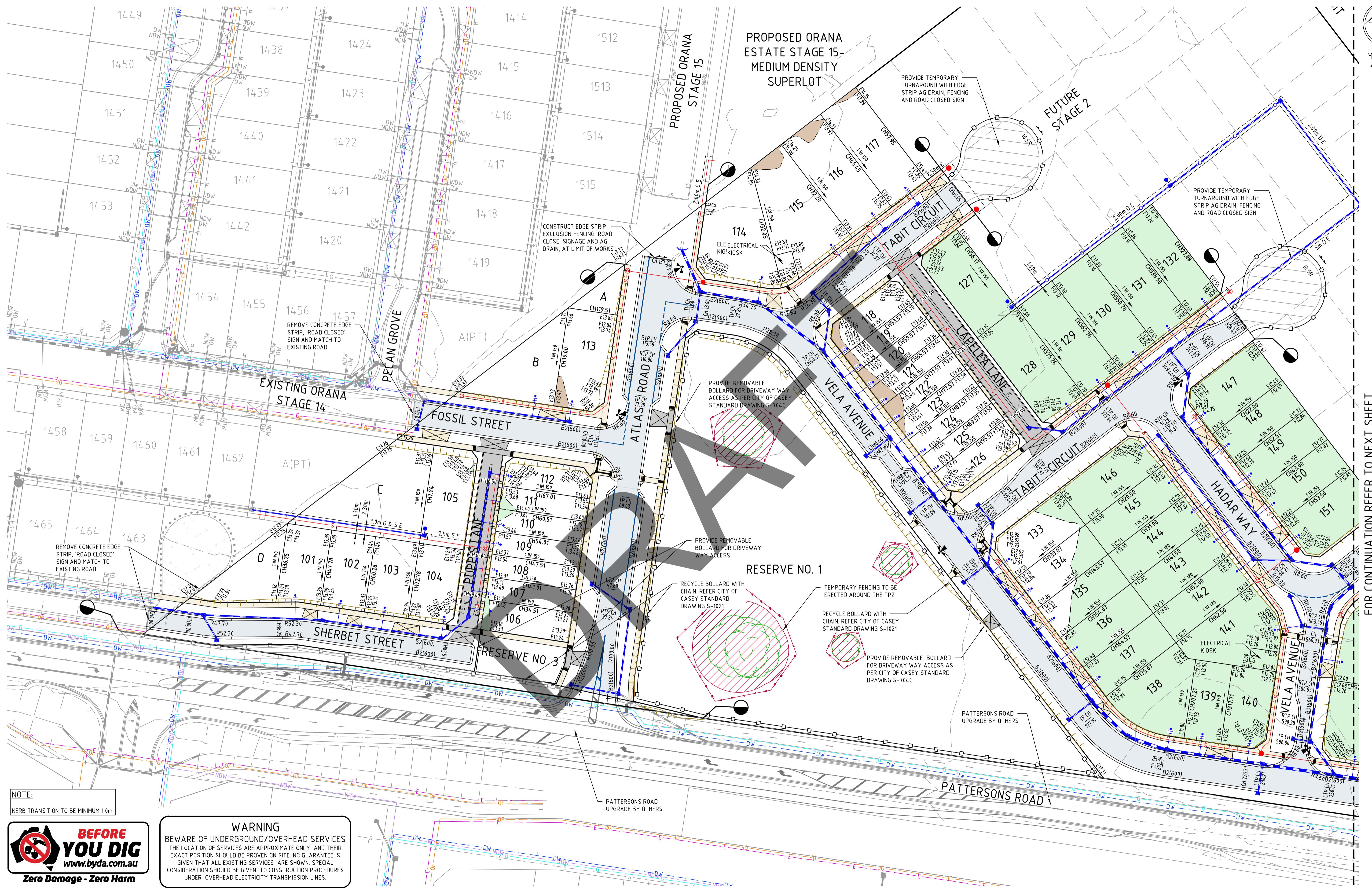
Designed  
D.RAWAT  
Authorised  
T.ABBOTT

Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

**ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
GENERAL NOTES**  
CASEY CITY COUNCIL  
SIG GROUP

**PRELIMINARY** 322764-001 CR100 **B**





B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date

Scale H 1:500 SCALE @ A1 0 5 10 15 20 25

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Designed  
D.RAWAT  
Authorised  
T.ABBOTT  
Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

**ALMA ESTATE STAGE 1 ROAD & DRAINAGE ROAD LAYOUT PLAN - SHEET 1**  
CASEY CITY COUNCIL SIG GROUP

**PRELIMINARY** 322764-001CR200 **B**

MGA 2020  
ZONE 55

EOB CONTINUATION SHEET

NOTE:

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GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL  
CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES  
UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

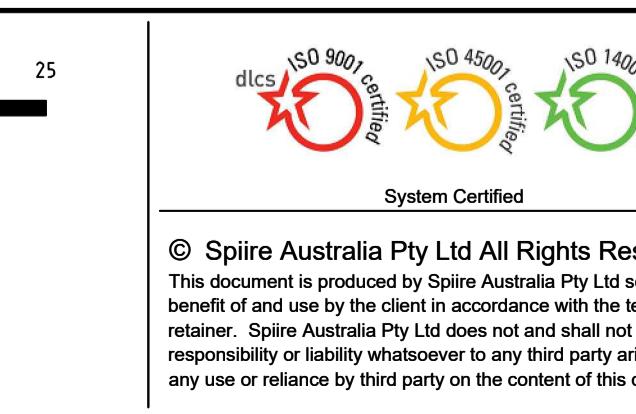


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A	ISSUED FOR TENDER	T.A	21/0
Rev	Amendments	Approved	Da

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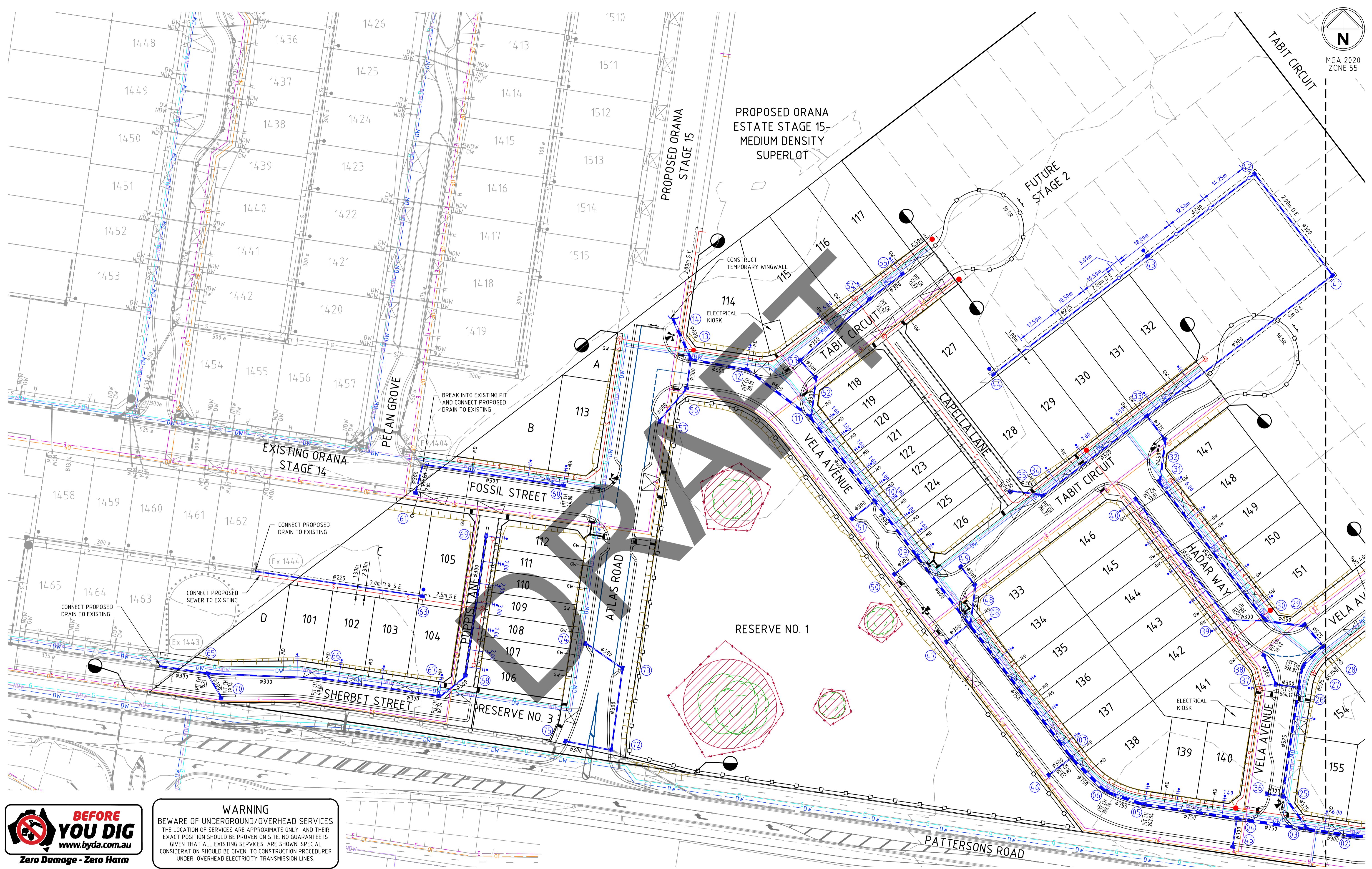


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Designed  
D.RAWA  
Authorised  
T.ABBO

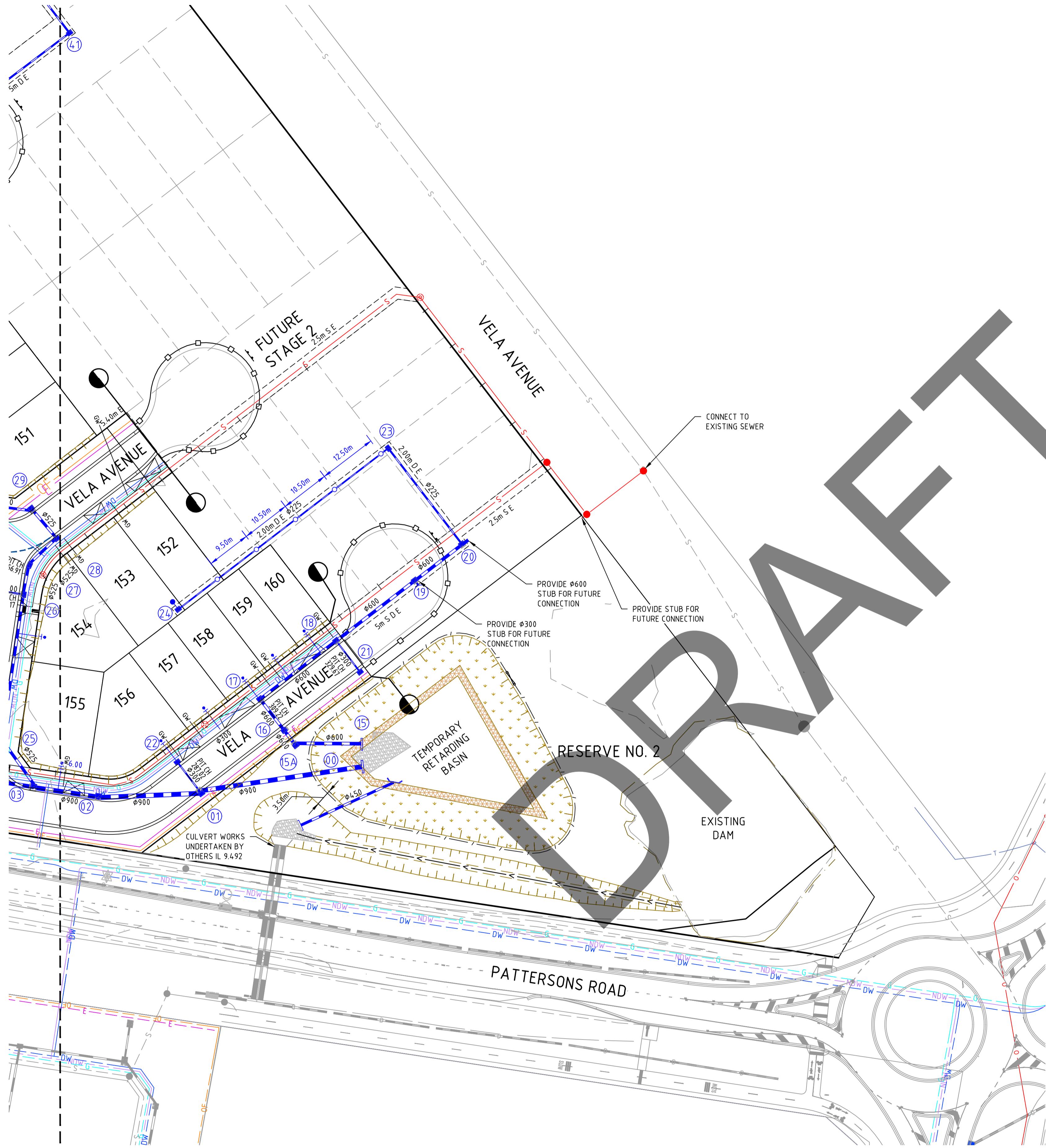
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**B.WARNAKULASURIYA**

**ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
ROAD LAYOUT PLAN - SHEET 2  
CASEY CITY COUNCIL  
IG GROUP**

**PRELIMINARY** Drg No **322764-001CR201** Re

MGA 2020  
ZONE 55

FOR CONTINUATION REFER TO PREVIOUS SHEET



N  
MGA 2020  
ZONE 55

SERVICE LOCATION TABLE

ROAD NAME	POTABLE WATER		GAS		NBN (TELECOM)		ELECTRICITY		RECYCLED WATER	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	U/G CABLE OFFSET	SIDE	OFFSET
ATLAS ROAD	W	3.05	W	2.10	E	1.85	E	100x	E	2.60
FOSIL STREET	N	2.85	N	1.90	S	1.85	S	100x	S	2.60
SHERBET STREET	N	2.85	N	1.90	S	0.30	-	-	S	0.75
PUPPI'S LANE	-	-	-	-	W	0.30	-	-	W	0.75
VELA AVENUE	N	2.85	N	1.90	S	1.85	S	100x	S	2.60
TABIT CIRCUIT	N/W	2.85	N/W	1.90	S/E	1.85	S/E	100x	S/E	2.60
CAPELLA LANE	-	-	-	-	-	-	-	-	-	-
HADAR WAY	S	2.85	S	1.90	N	1.85	N	100x	N	2.60

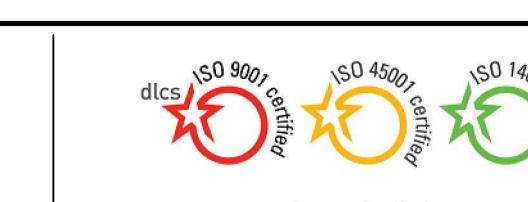
1. TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG's.  
2. GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.  
3. x = OFFSET FROM BACK OF KERB



WARNING  
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UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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Rev	Amendments	Approved	Date

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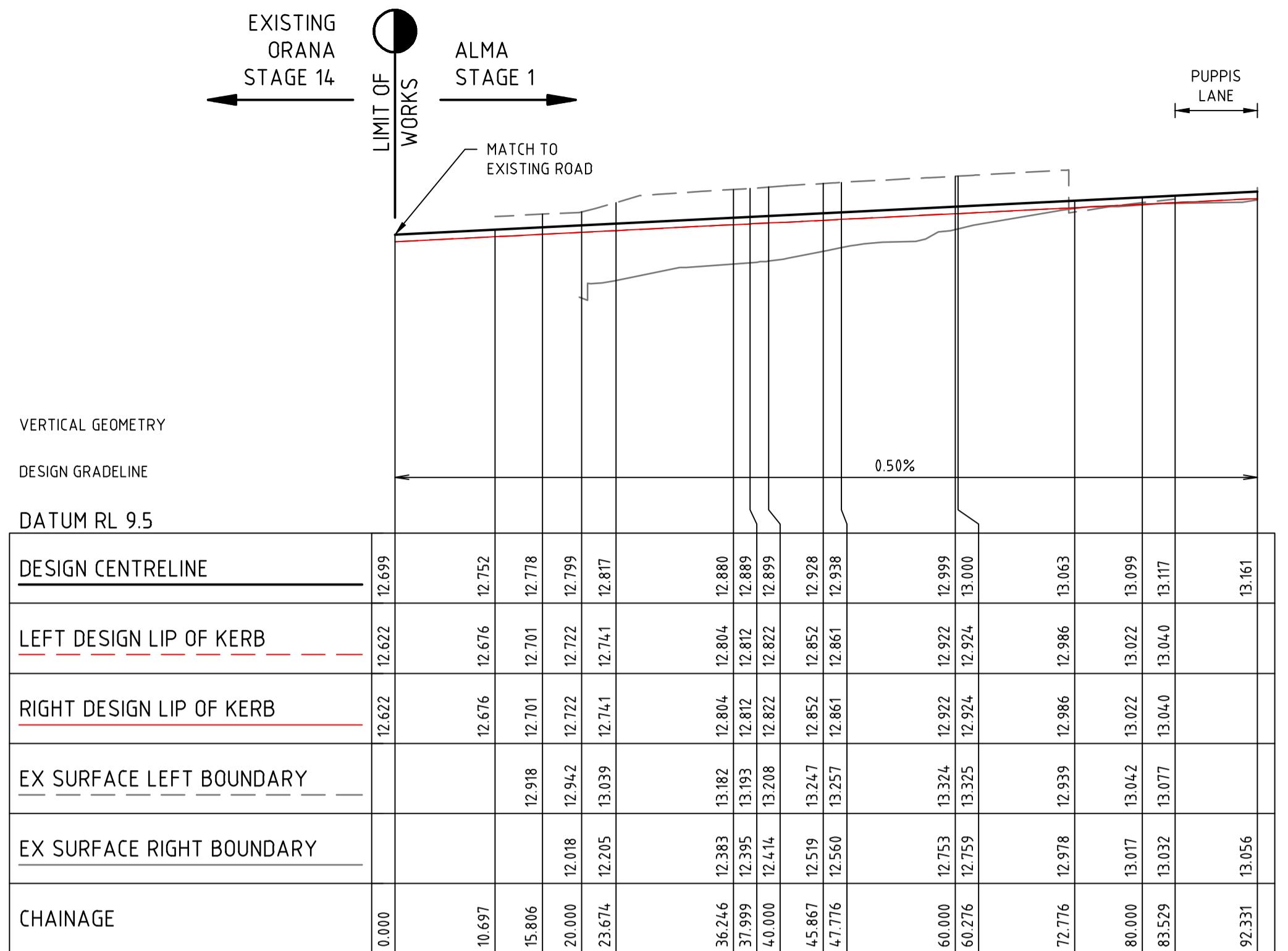
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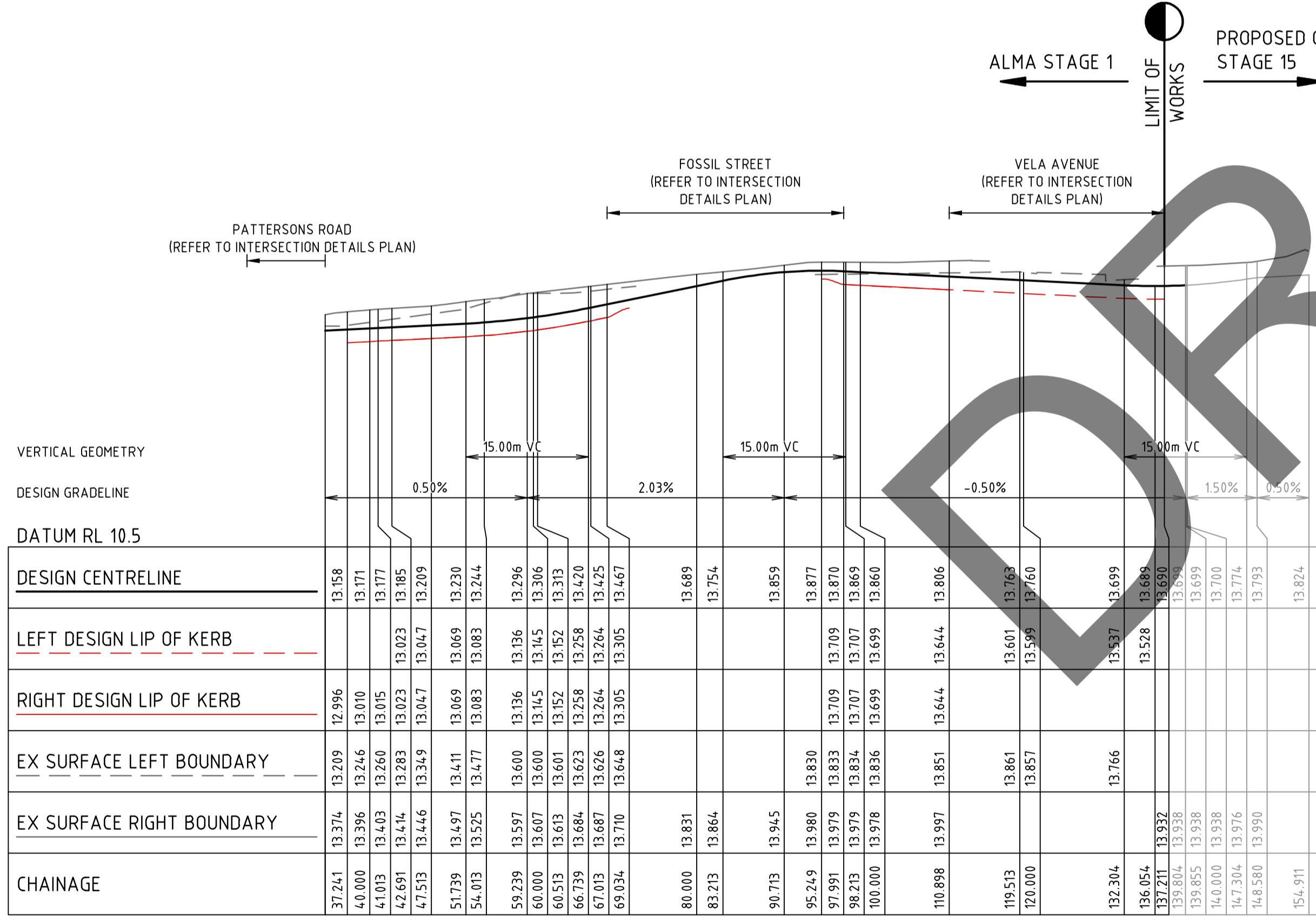
**SIG GROUP**  
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D.RAWAT  
Checked  
B.WARNAKULASURIYA  
Authorised  
T.ABBOTT  
Date  
JULY 2025

ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
SERVICES PLAN - SHEET 2  
CASEY CITY COUNCIL  
SIG GROUP

**PRELIMINARY** 322764-001CR203 **B**



SHERBET STREET



ATLAS ROAD

PROPOSED ORANA STAGE 15

LIMIT OF WORKS

FOSSIL STREET (REFER TO INTERSECTION DETAILS PLAN)

VELA AVENUE (REFER TO INTERSECTION DETAILS PLAN)

PATTERNS ROAD (REFER TO INTERSECTION DETAILS PLAN)

ATLAS ROAD (REFER TO INTERSECTION DETAILS PLAN)

EXISTING ORANA STAGE 14

ALMA STAGE 1

MATCH TO EXISTING ROAD

0.50%

15.00m VC

2.03%

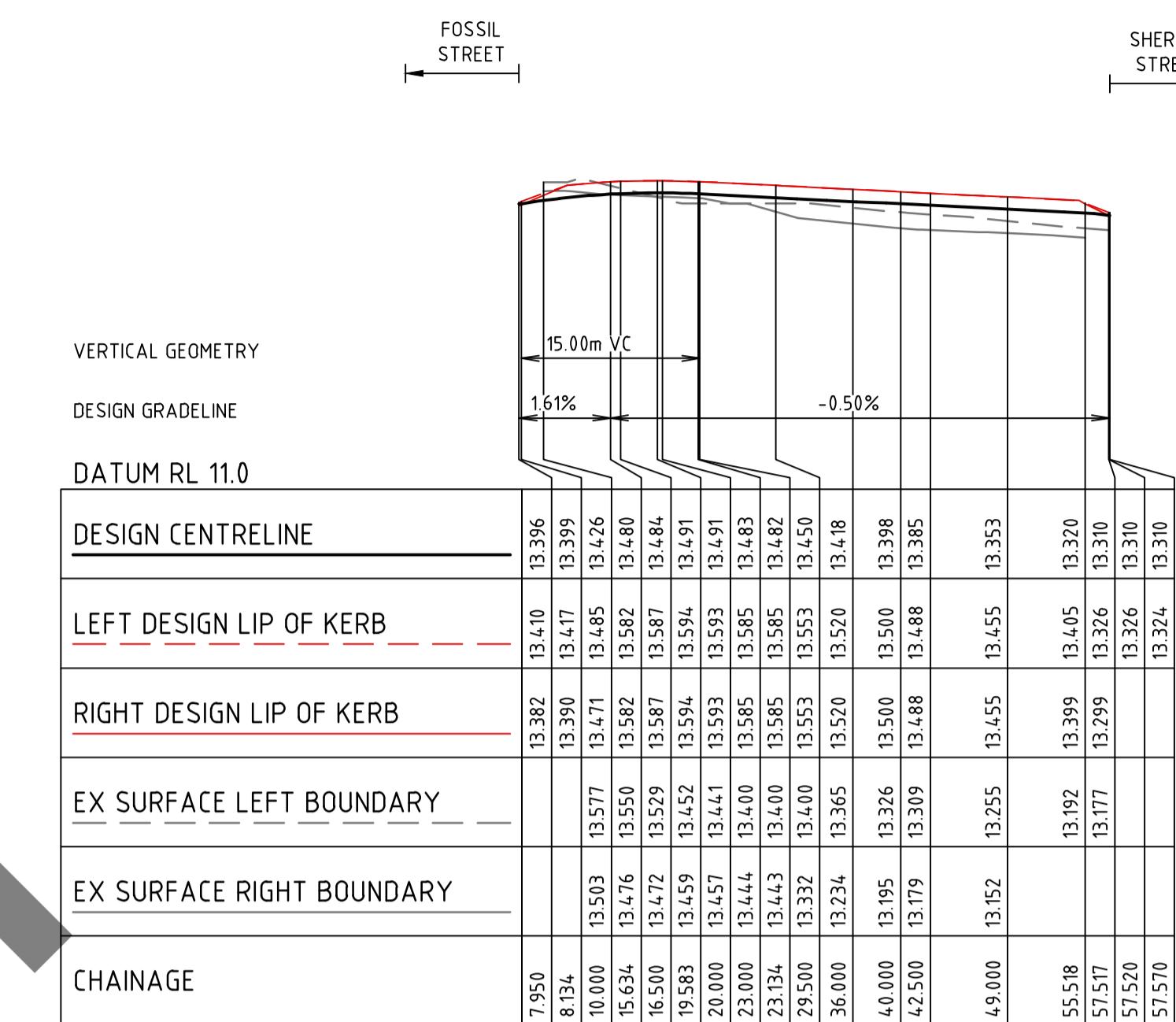
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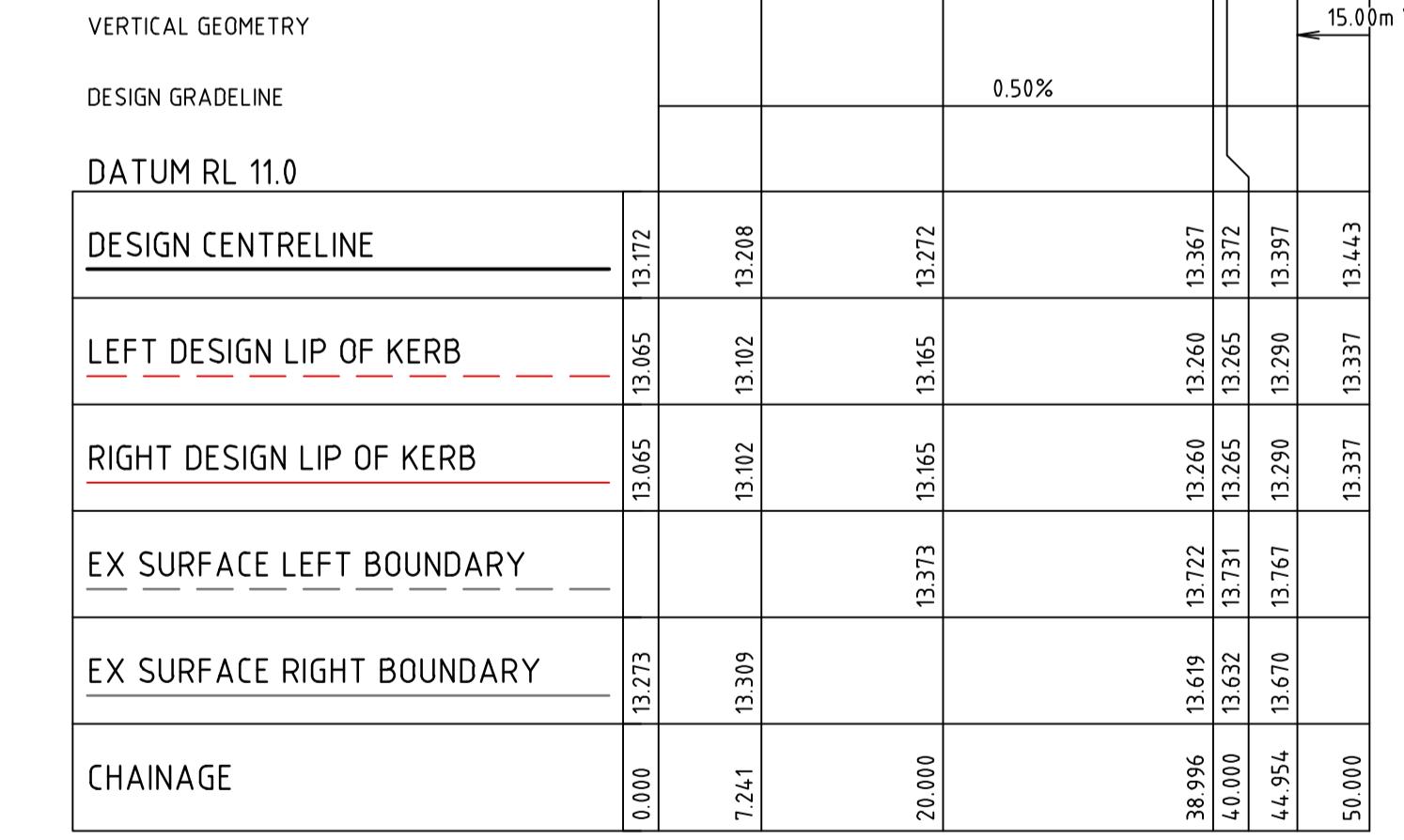
15.00m VC

1.50%

0.50%



PUPPIES LANE



FOSSIL STREET

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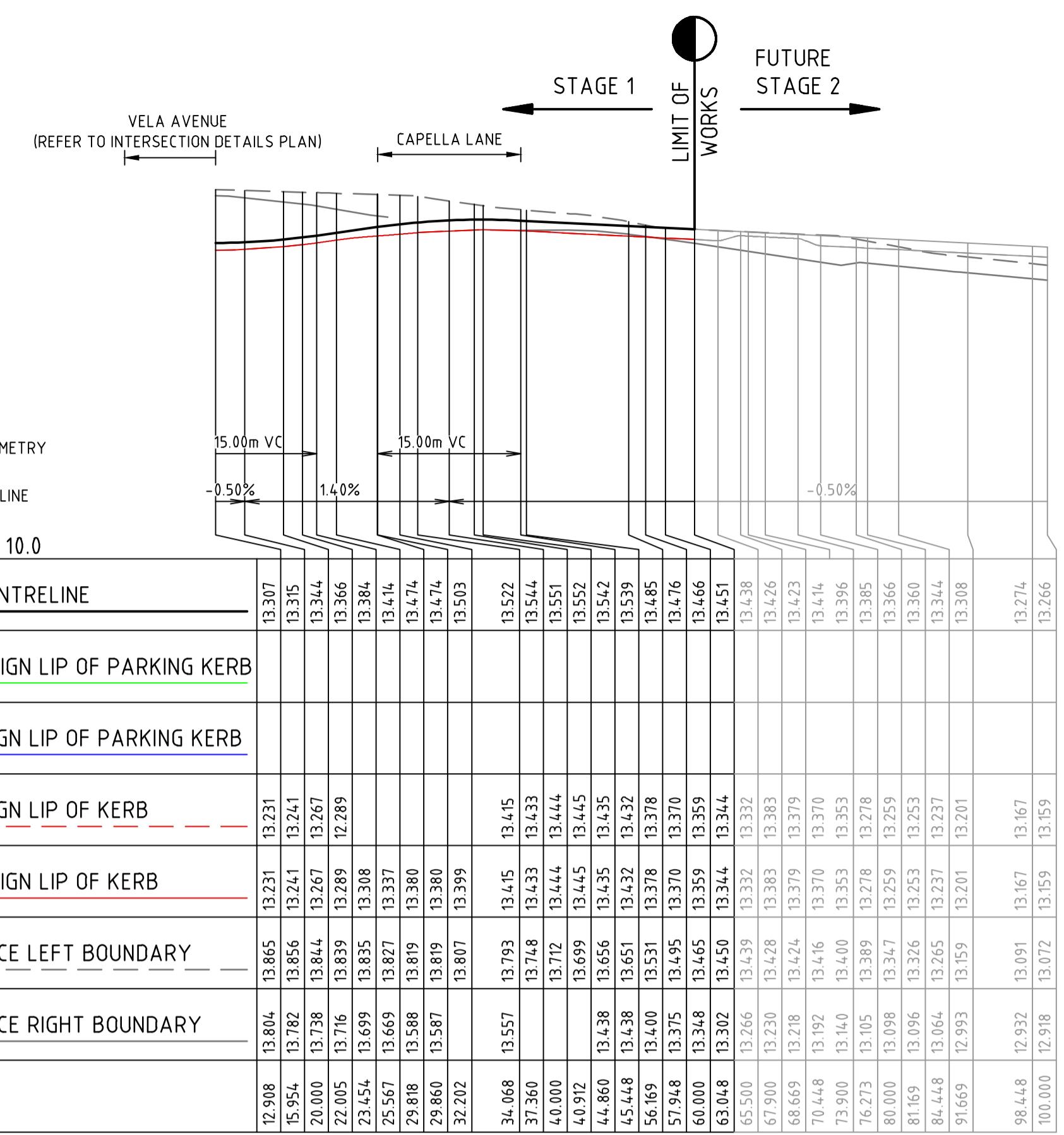
SIG GROUP

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T.ABBOTT

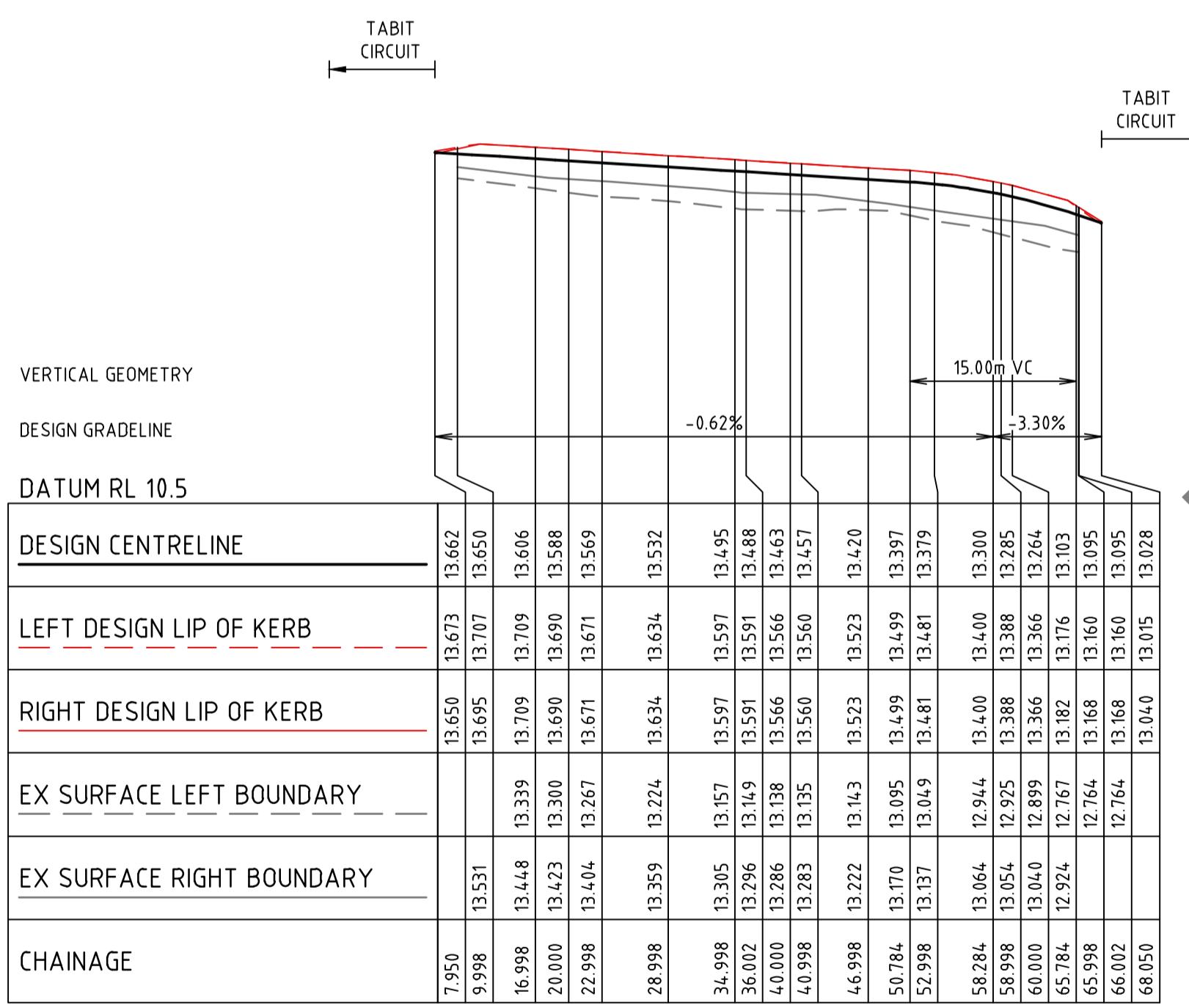
Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
ROAD LONGITUDINAL SECTIONS - SHEET 1  
CASEY CITY COUNCIL  
SIG GROUP  
**PRELIMINARY** Dwg No 322764-001 CR300 Rev B

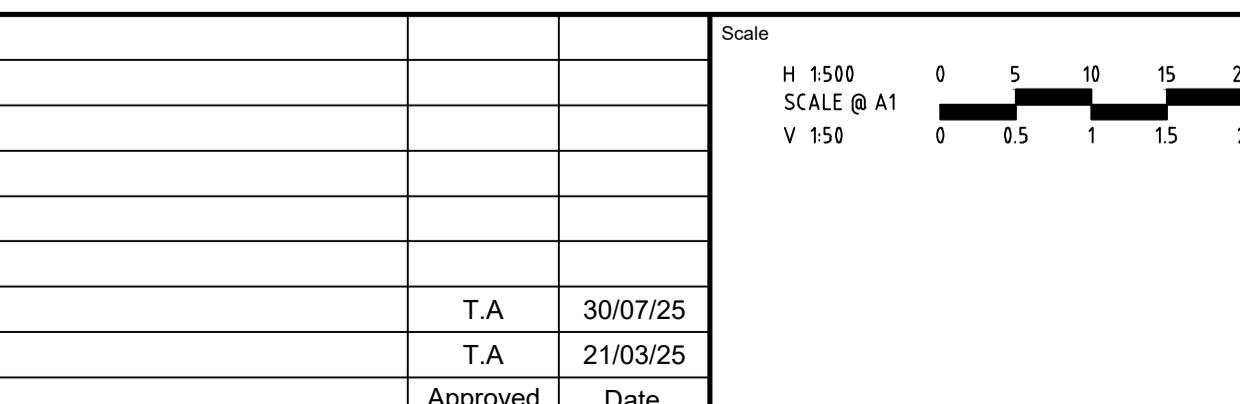
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A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date



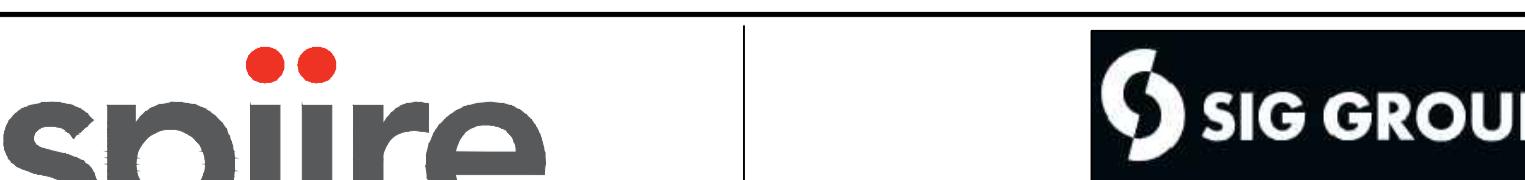
## TABIT CIRCUIT (PART 1 OF 2)



# CAPELLA LANE



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Designed	Checked
<b>D.RAWAT</b>	<b>B.WARNAKULASUR</b>
Authorised	Date
<b>T.ABBOTT</b>	<b>JULY 2025</b>



# ALMA ESTATE STAGE 1

## ROAD & DRAINAGE ROAD LONGITUDINAL SECTIONS - SHEET 2

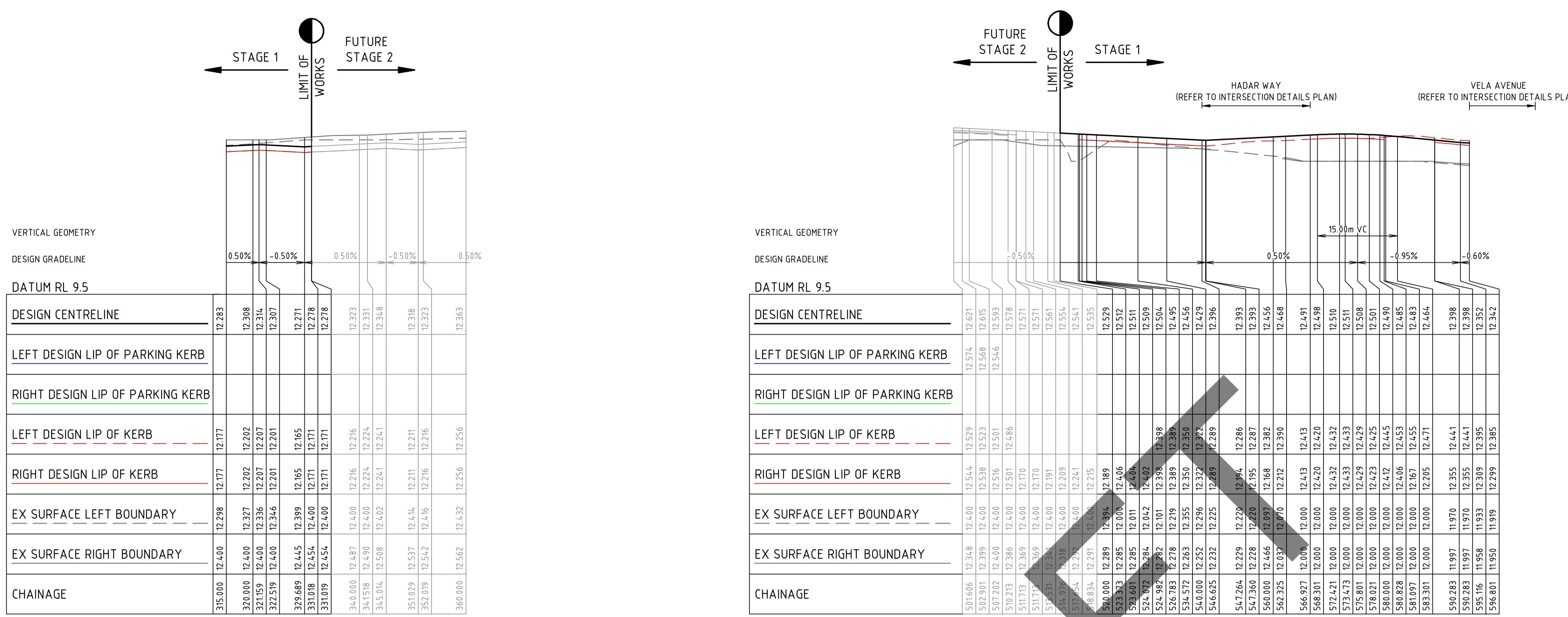
### CASEY CITY COUNCIL

SIG GROUP

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Drg No Rev

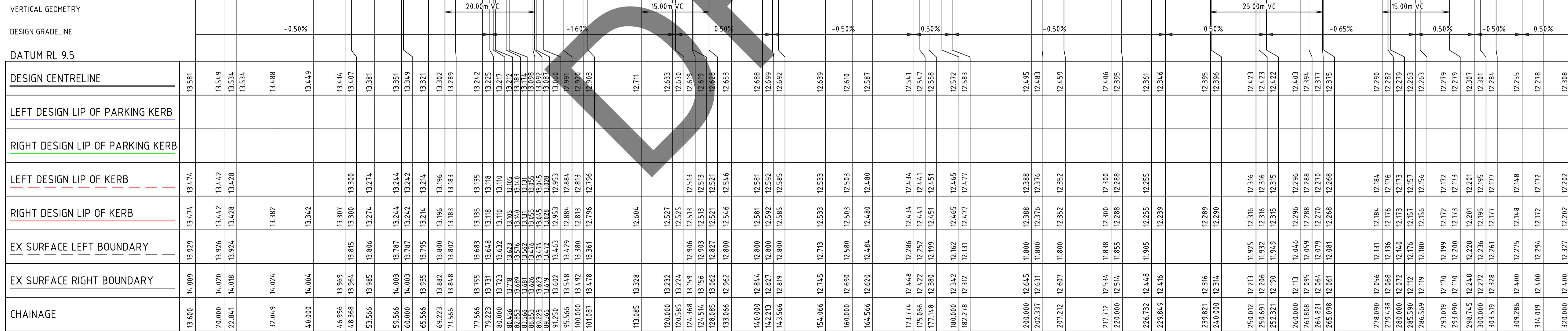
**PRELIMINARY** 322764-001 CR301 B



## VELA AVENUE (PART 2 OF 3)

ATLAS ROAD  
(REFER TO INTERSECTION DETAILS PLAN) TABIT CIRCUIT  
(REFER TO INTERSECTION DETAILS PLAN)

## VELA AVENUE (PART 3 OF 3)



## VELA AVENUE (PART 1 OF 3)

Scale  
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SCALE @ A1  
V 1:50 0 0.5 1 1.5 2

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25

The image shows two circular certification logos. The left logo is red with a star in the center, containing the text 'dlcs ISO 9001 certifié'. The right logo is yellow with a star in the center, containing the text 'ISO 45001 certifié'. Both logos have a green border.

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Checked  
B.WARNAKULASUR  
Date  
JULY 2025

**ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
ROAD LONGITUDINAL SECTIONS - SHEET 3  
CASEY CITY COUNCIL**

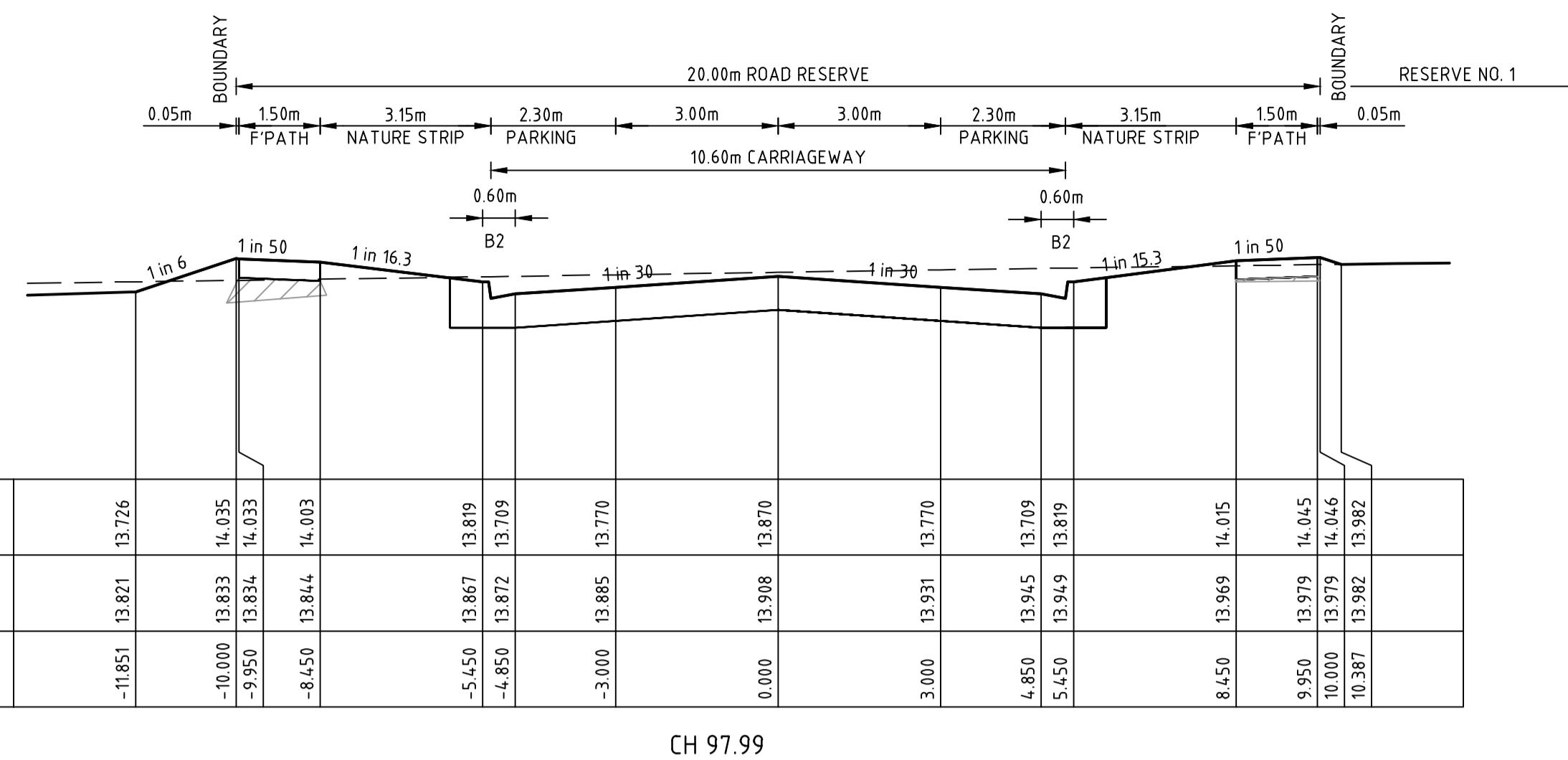
**PRELIMINARY** Drg No 322764-001 CR302 Rev B

**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.

STRUCTURAL FILL IN ACCORDANCE  
WITH AS3798-2007, LEVEL 1

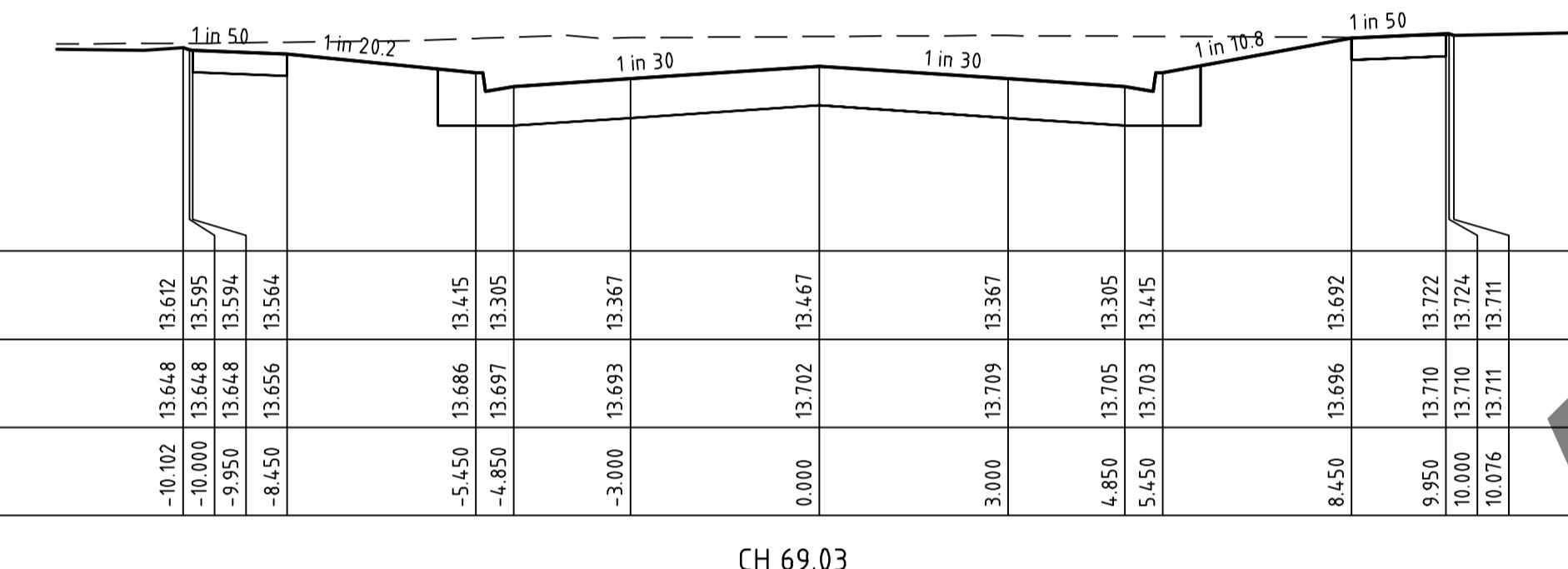
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OFFSET	

ATLAS ROAD



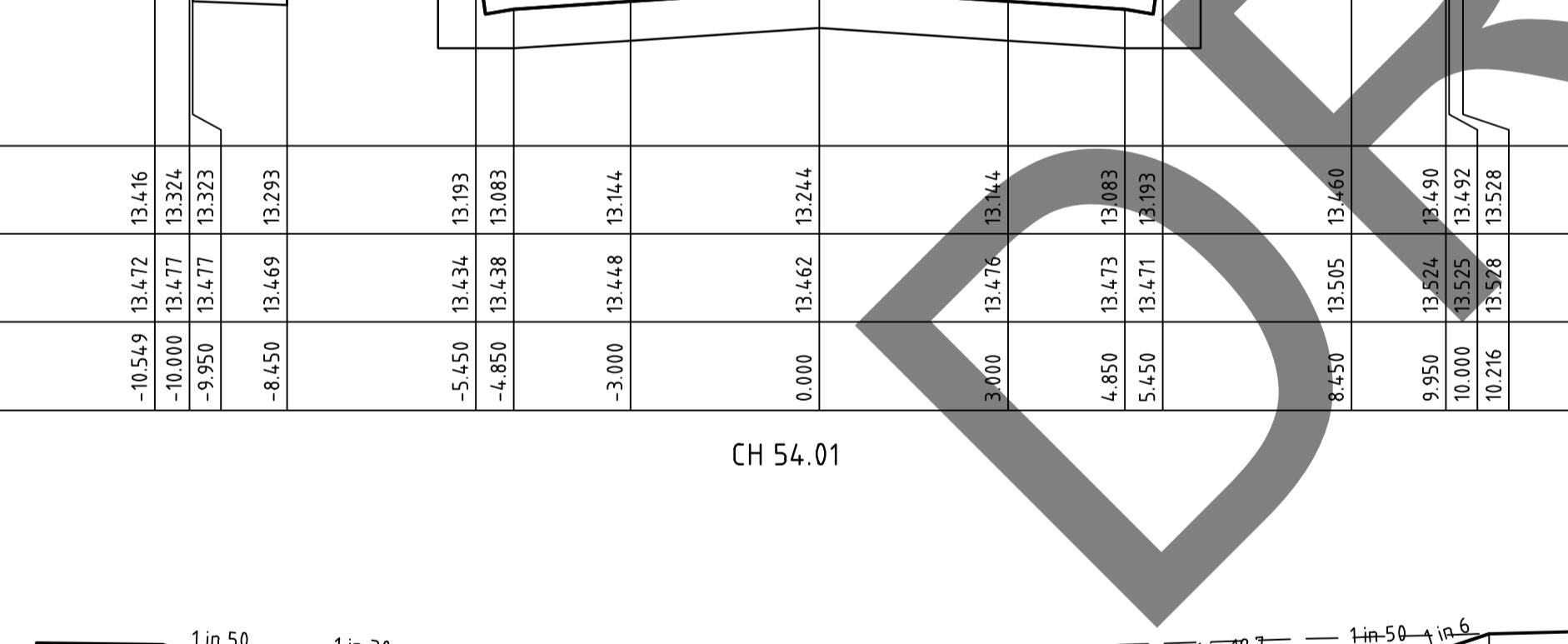
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ATLAS ROAD



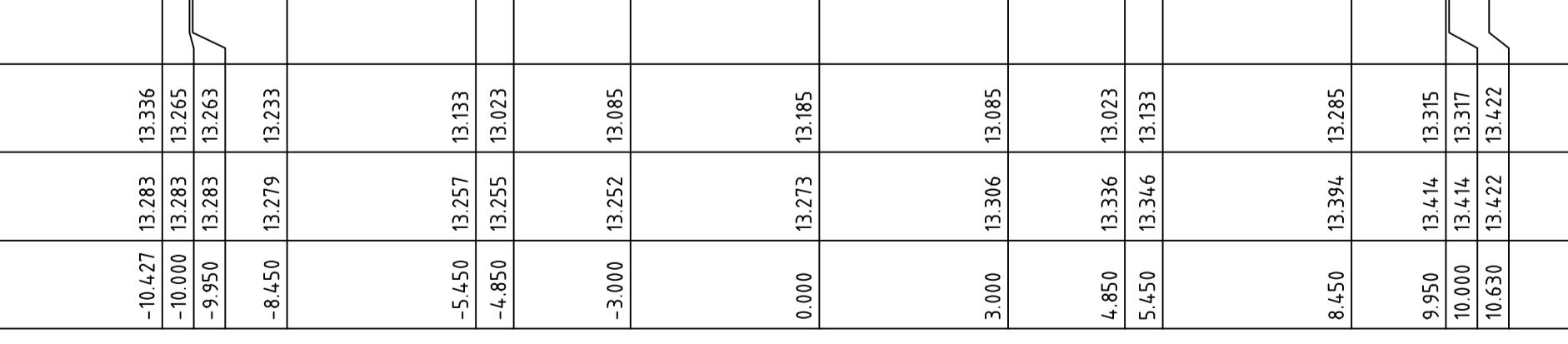
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DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
OFFSET	

ATLAS ROAD



DATUM R.L.12.0	
DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
OFFSET	

ATLAS ROAD



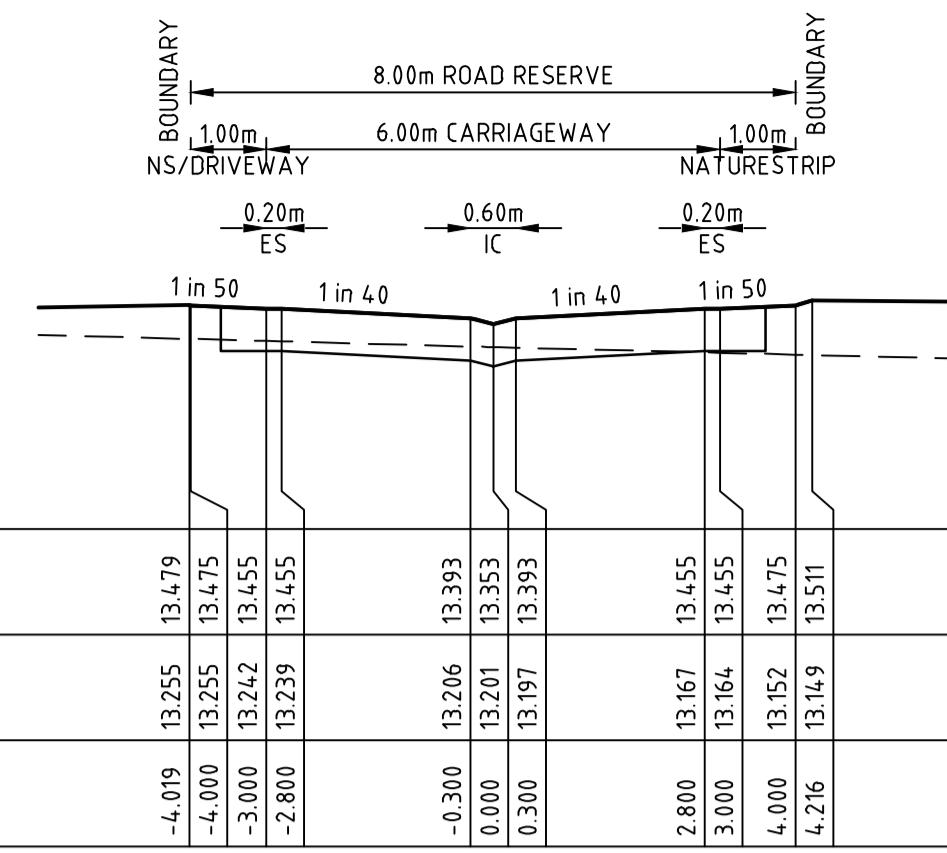
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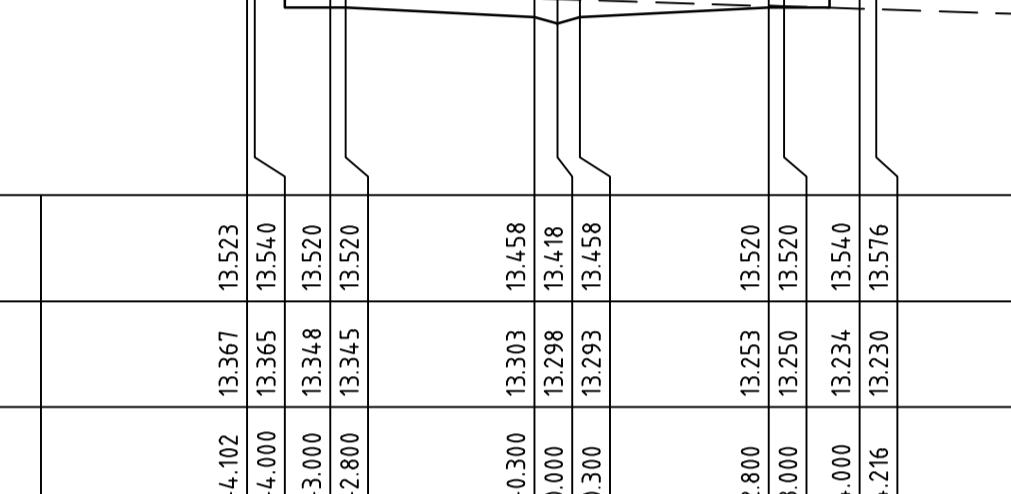
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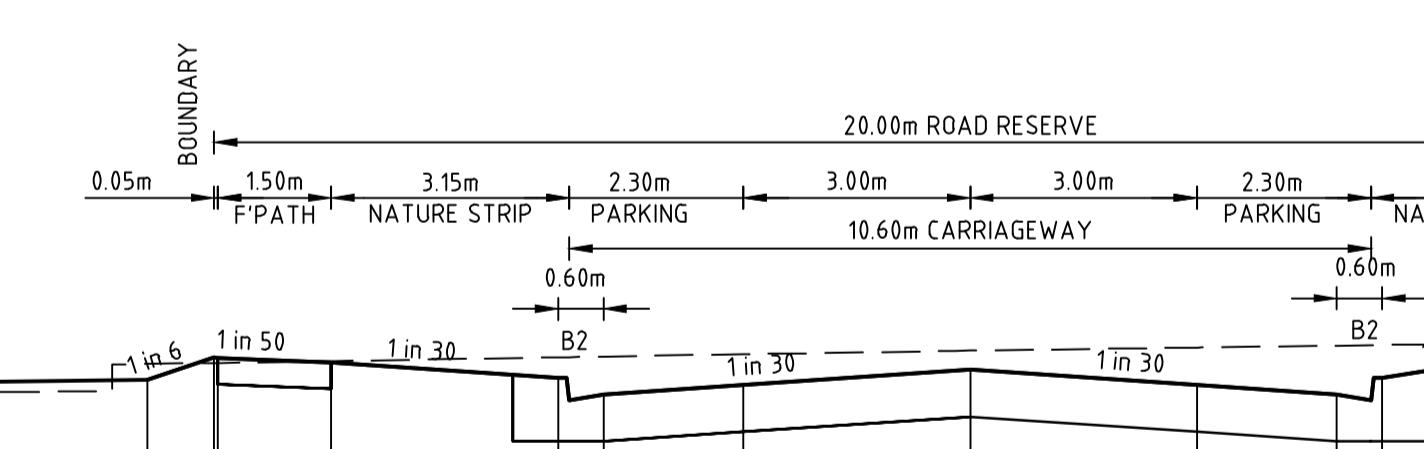
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OFFSET	

PUPPIS LANE



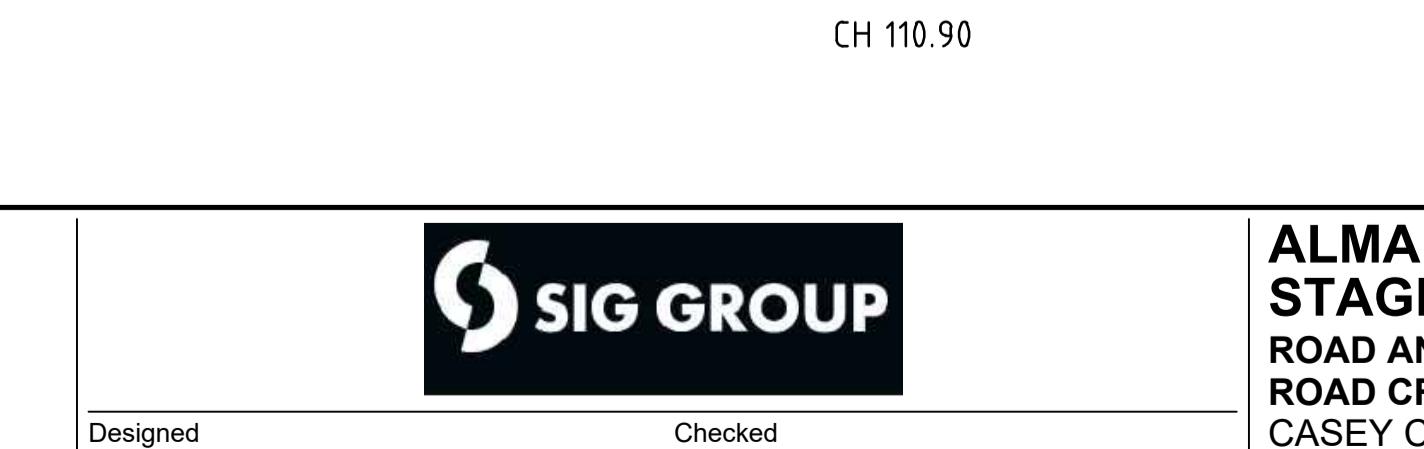
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DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
OFFSET	

PUPPIS LANE



DATUM R.L.12.0	
DESIGN SURFACE LEVEL	EXISTING SURFACE LEVEL
OFFSET	

ATLAS ROAD



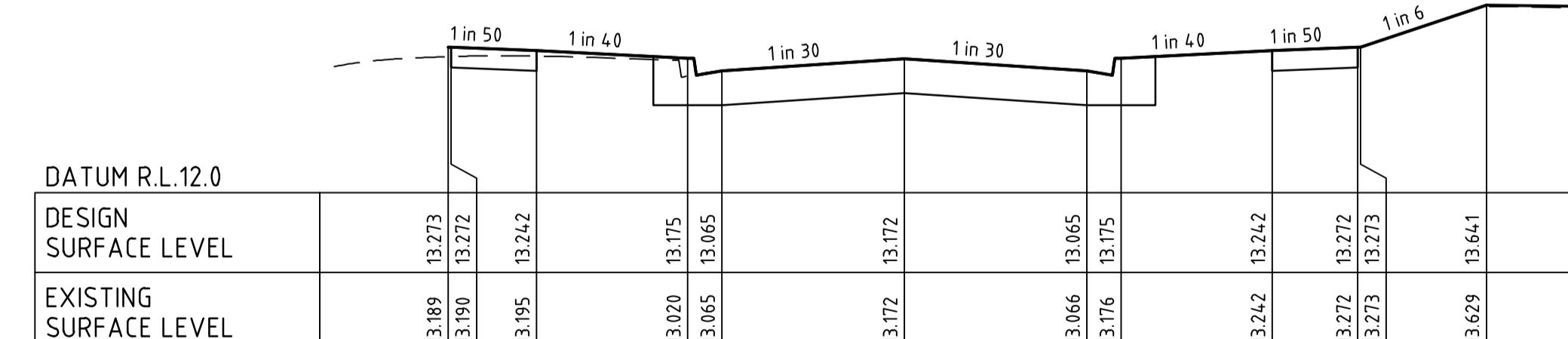
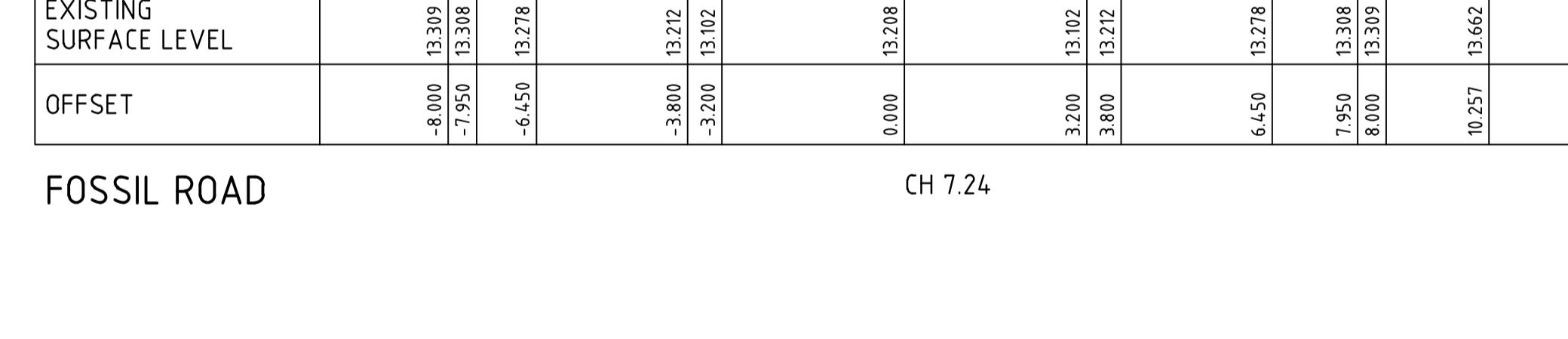
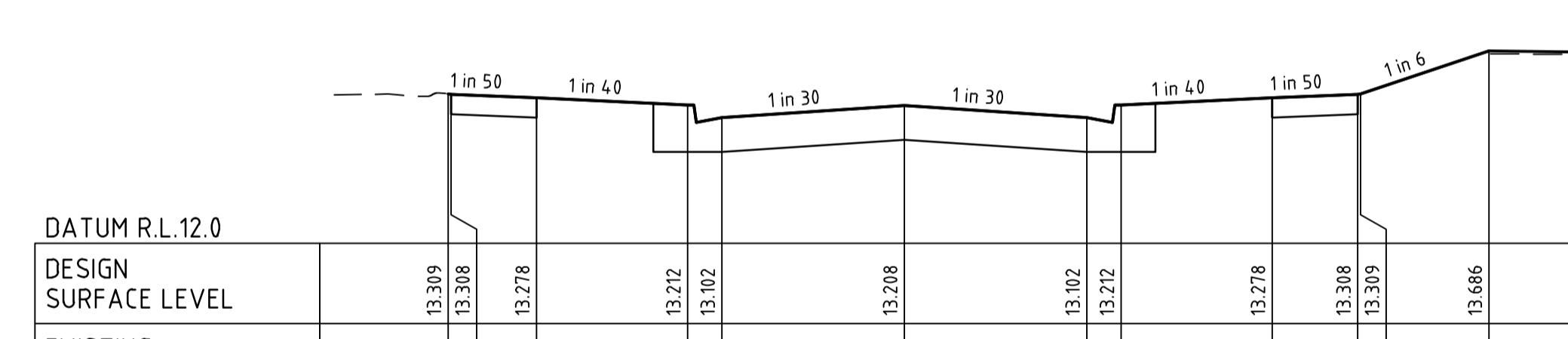
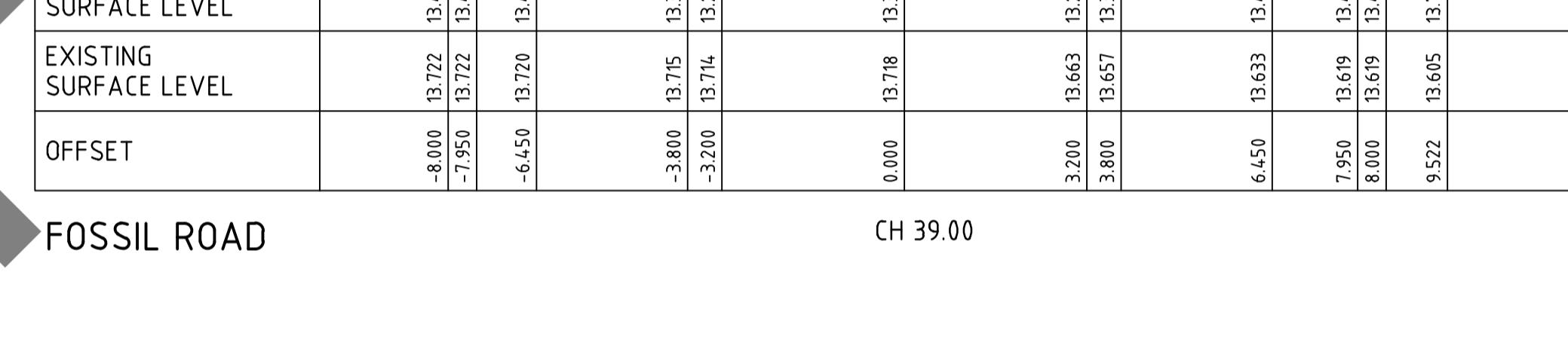
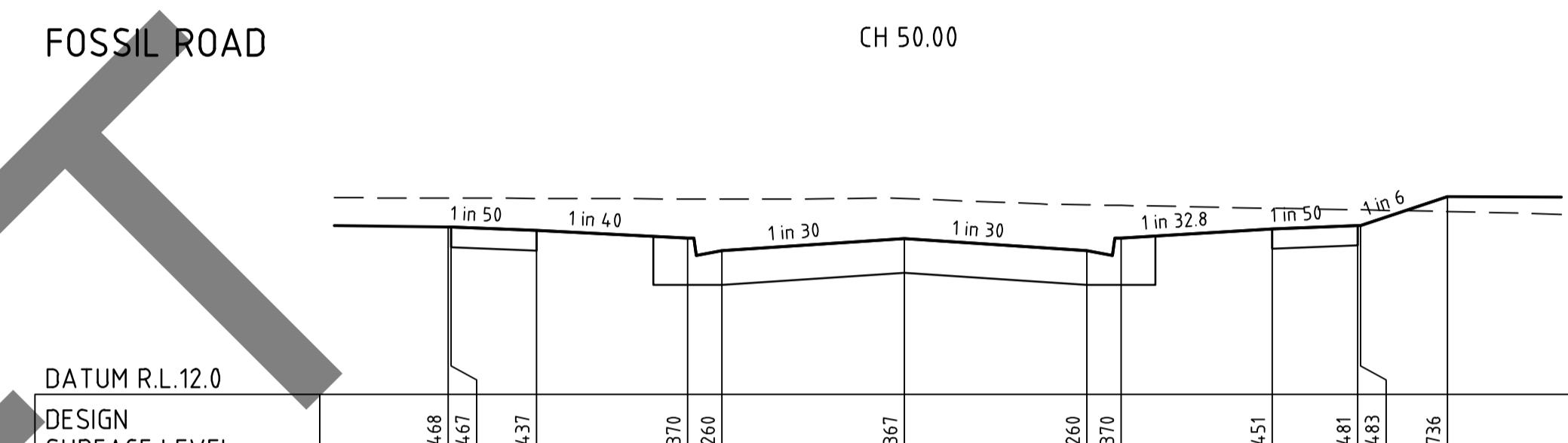
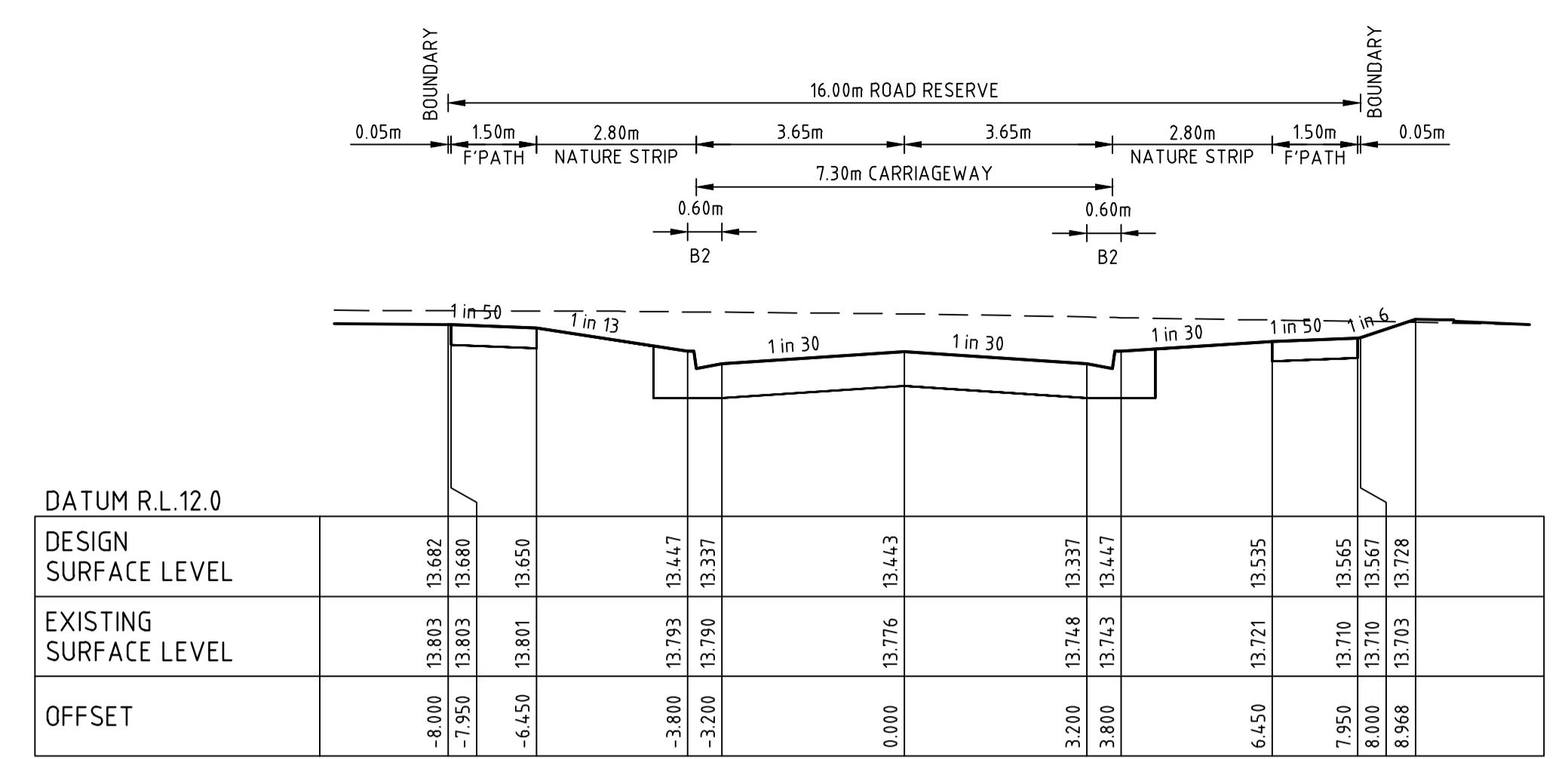
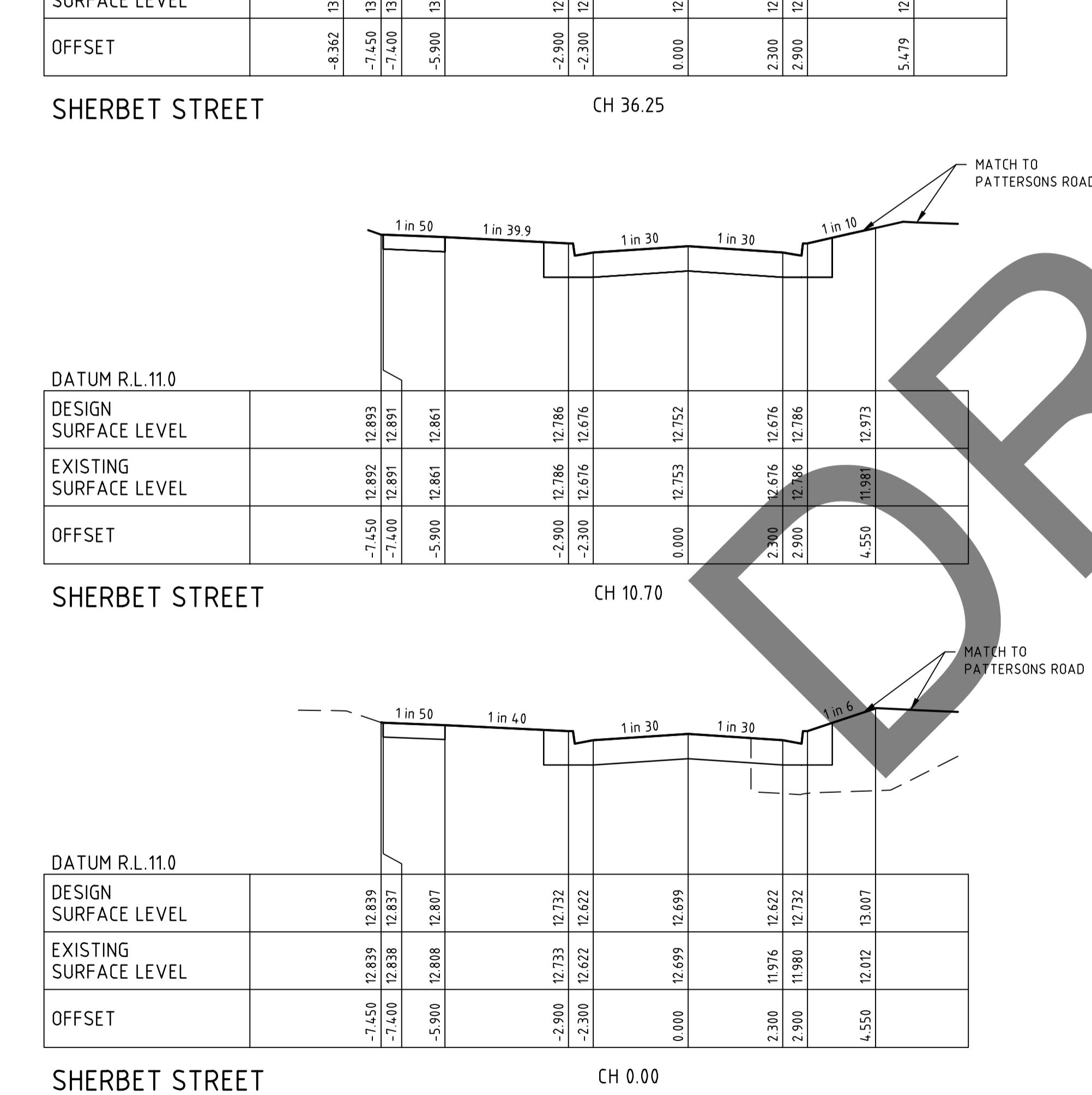
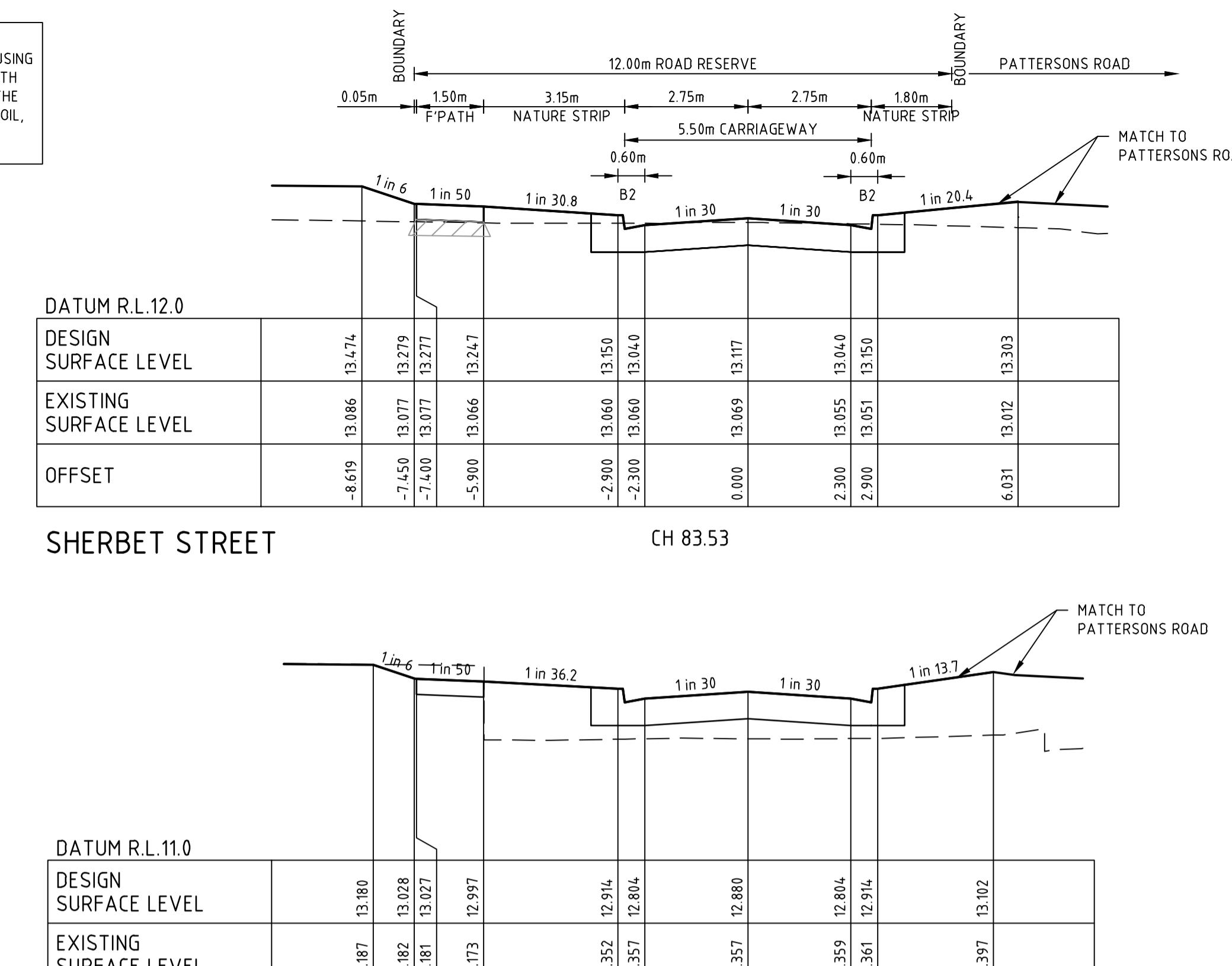
Designed	Checked
D.RAWAT	B.WARNAKULASURIYA
Authorised	Date
T.ABBOTT	JULY 2025

ALMA ESTATE  
STAGE 1  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS - SHEET 1  
CASEY CITY COUNCIL  
SIG GROUP

PRELIMINARY  
322764-001CR400  
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.

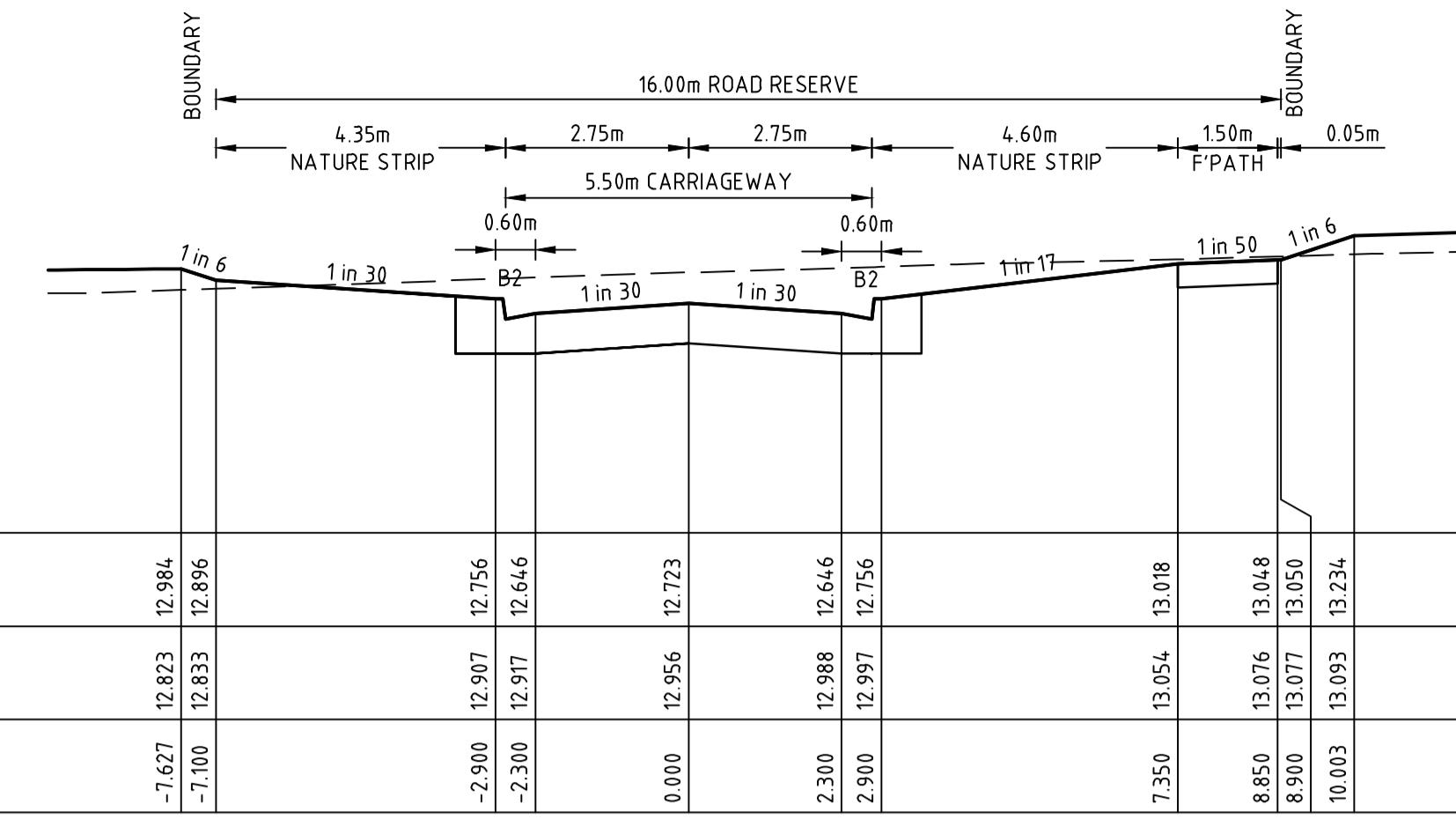
STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



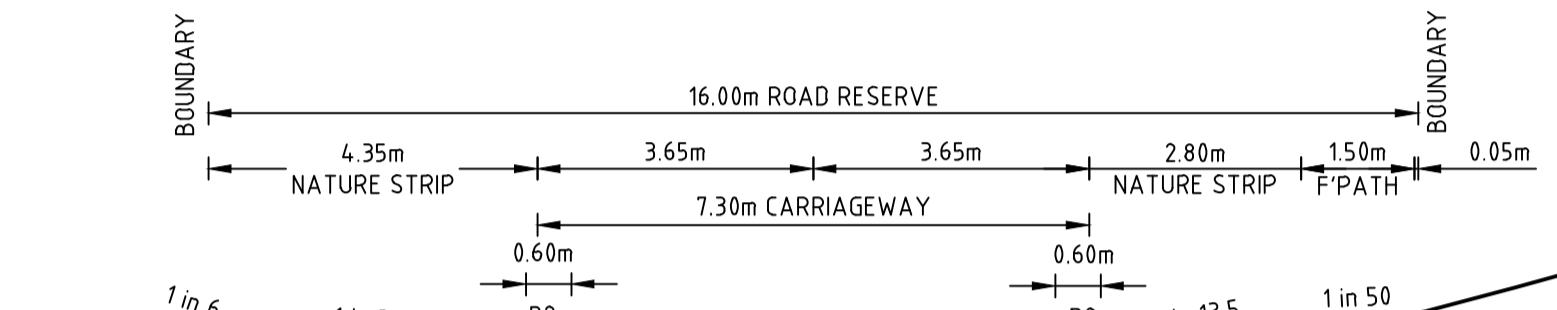


**FILLING NOTE**  
ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING  
LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH  
AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE  
SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL,  
FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED)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

STRUCTURAL FILL IN ACCORDANCE  
WITH AS3798-2007, LEVEL 1



TABIT CIRCUIT



TABIT CIRCUIT

CH 397.37

TABIT CIRCUIT

CH 373.04

TABIT CIRCUIT

CH 349.44

TABIT CIRCUIT

CH 409.44

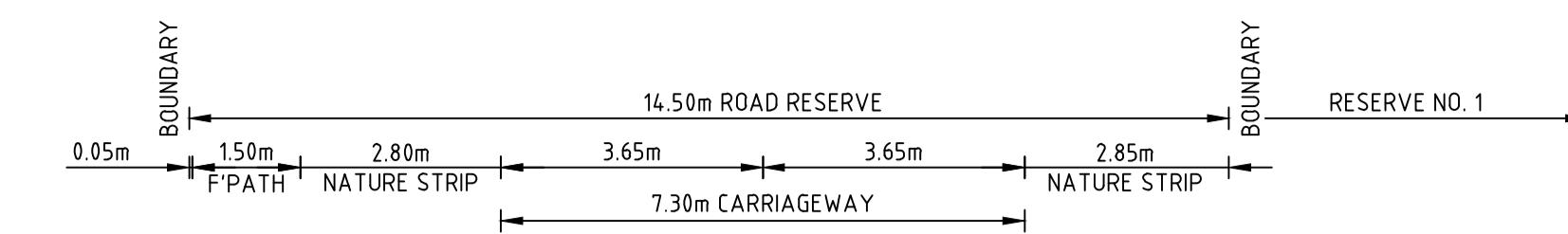
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H 1:100  
SCALE @ A1  
V 1:50  
0 1 2 3 4 5  
0 0.5 1 1.5 2 2.5



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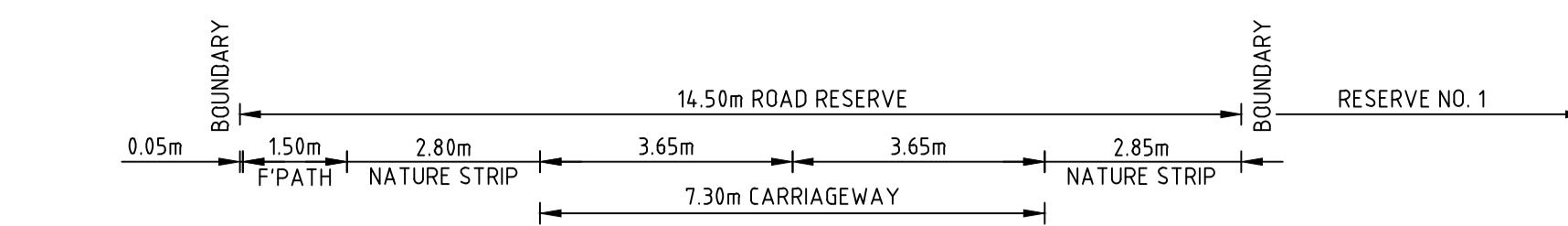
**spire**

L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
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spire.com.au ABN 55 050 029 635



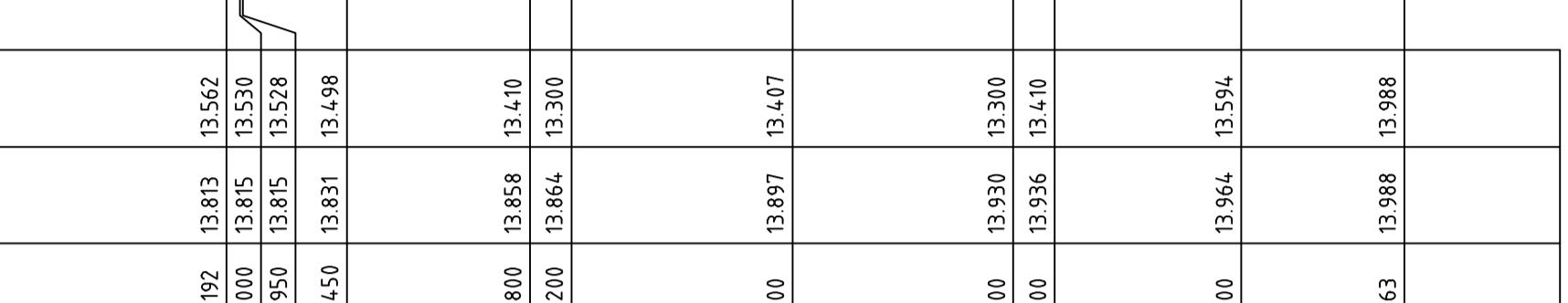
TABIT CIRCUIT

CH 418.51



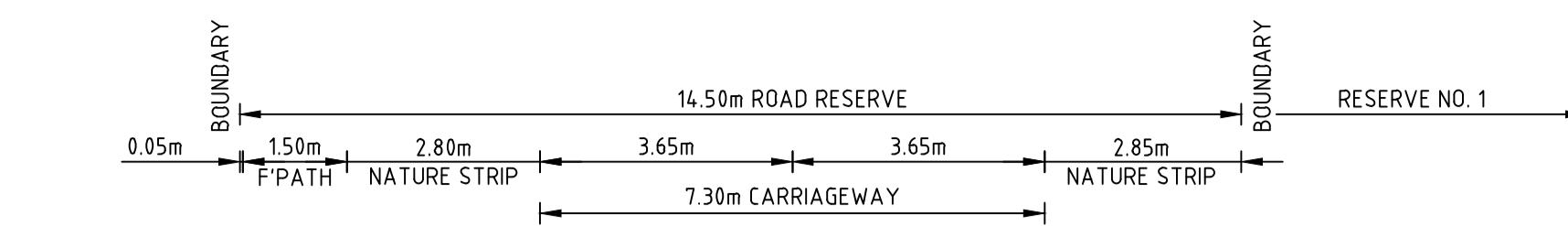
VELA AVENUE

CH 22.84



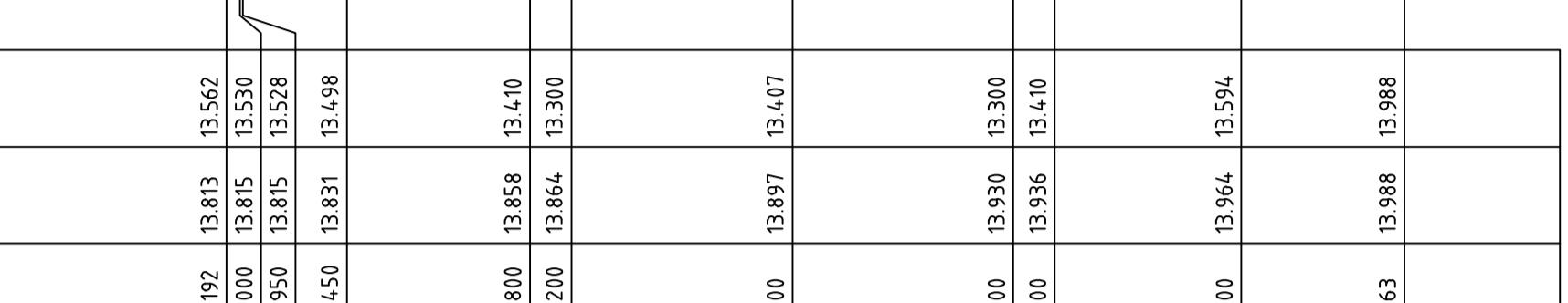
VELA AVENUE

CH 48.37



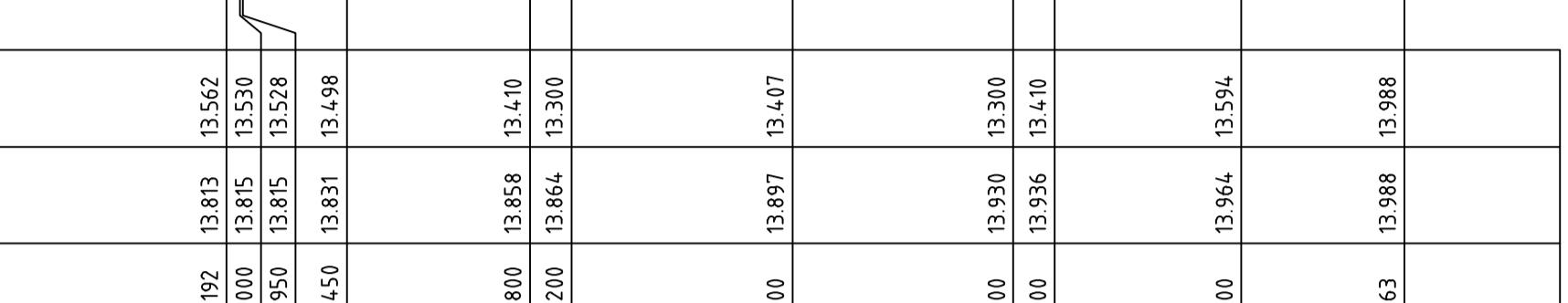
VELA AVENUE

CH 13.60



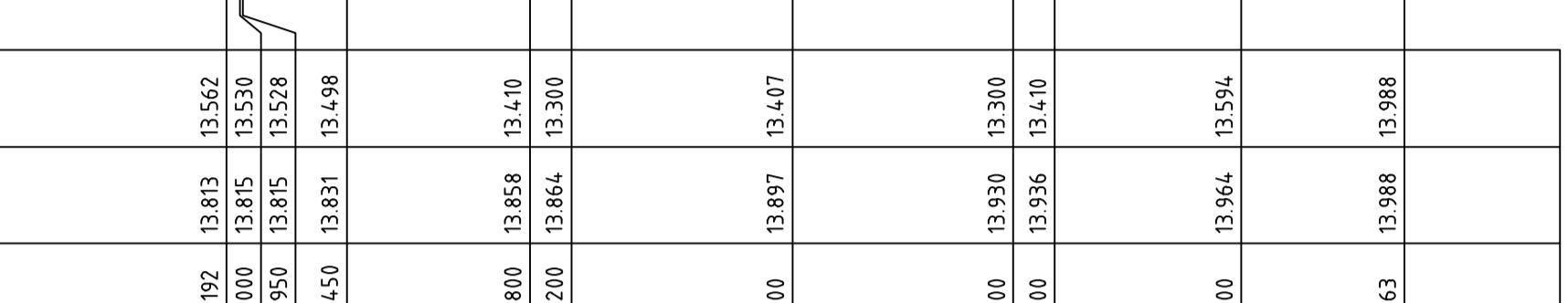
VELA AVENUE

CH 13.60



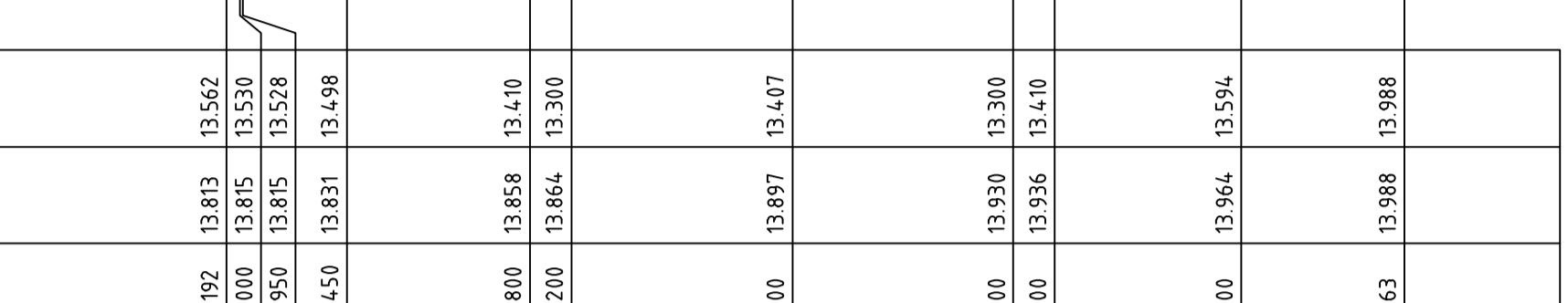
VELA AVENUE

CH 13.60



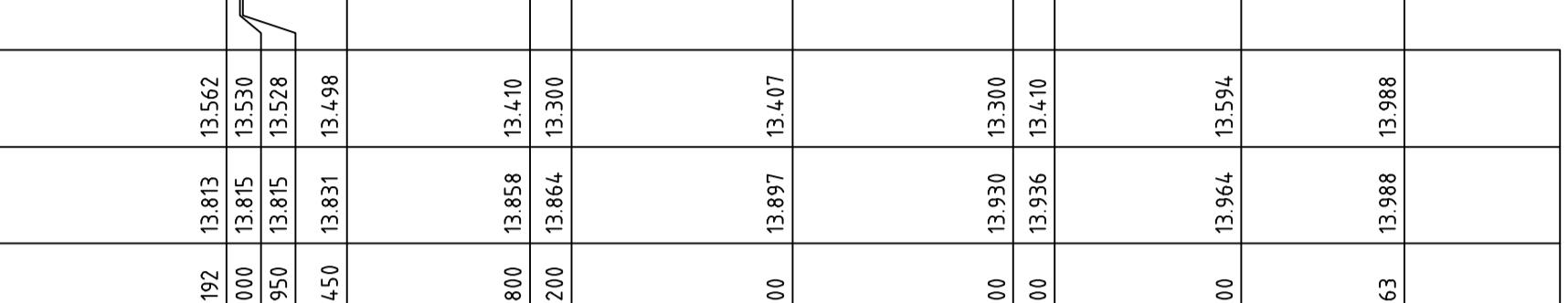
VELA AVENUE

CH 13.60



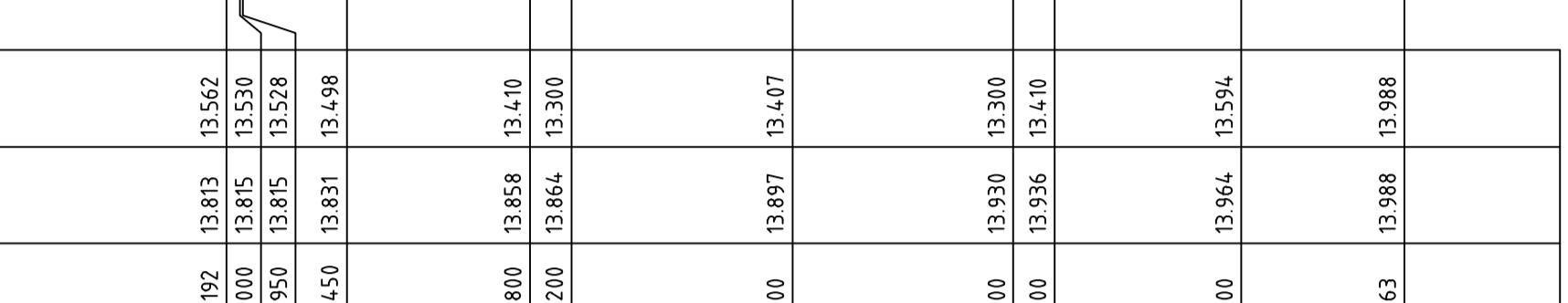
VELA AVENUE

CH 13.60



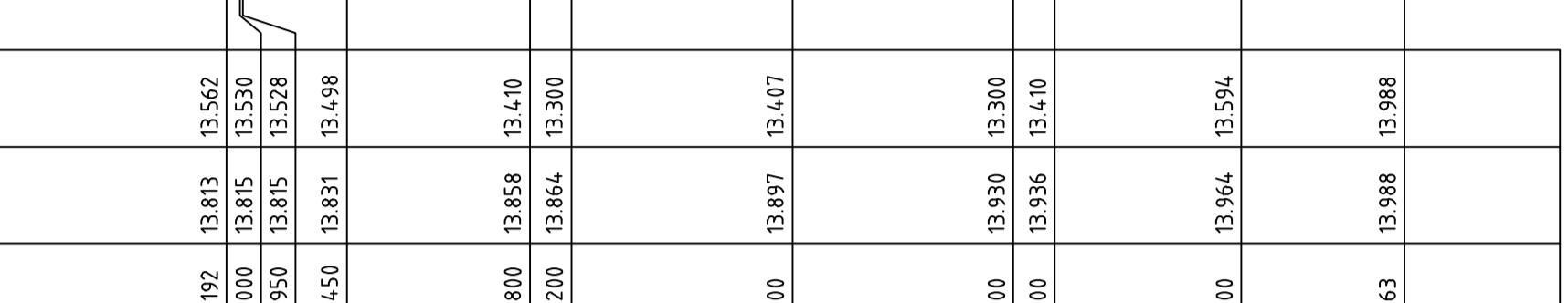
VELA AVENUE

CH 13.60



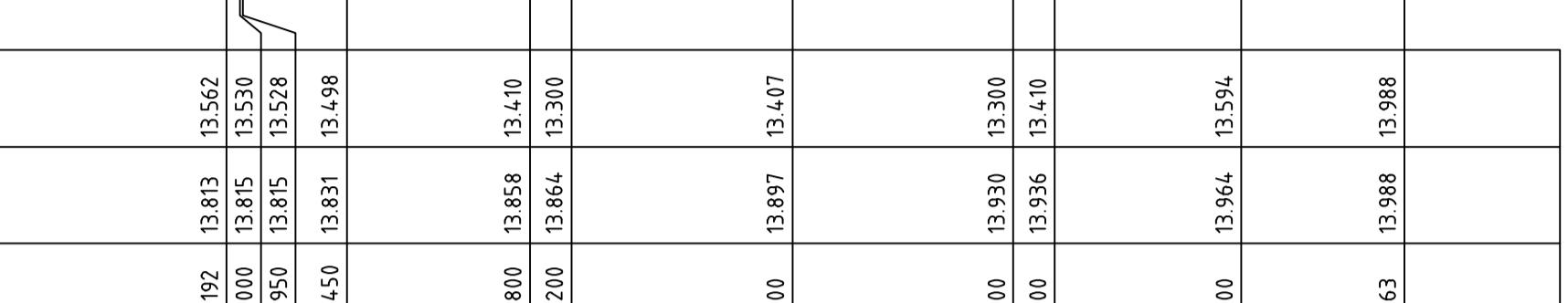
VELA AVENUE

CH 13.60



VELA AVENUE

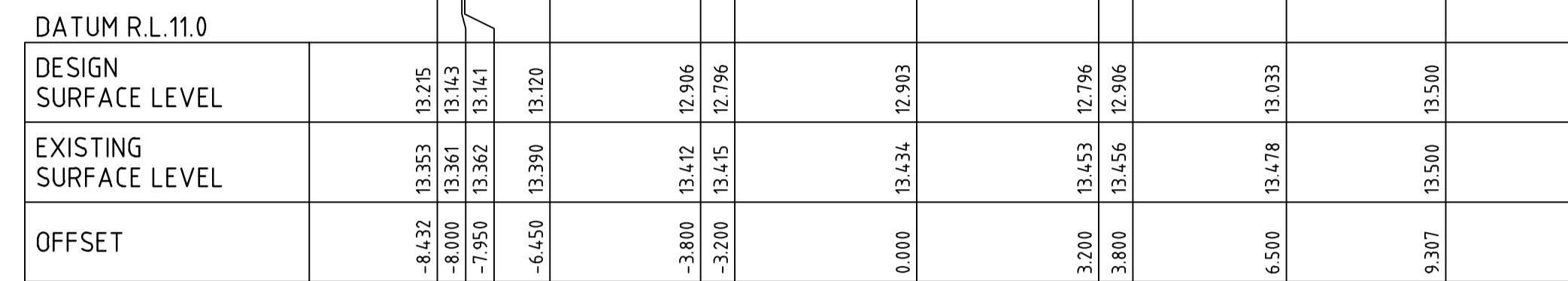
CH 13.60



VELA AVENUE

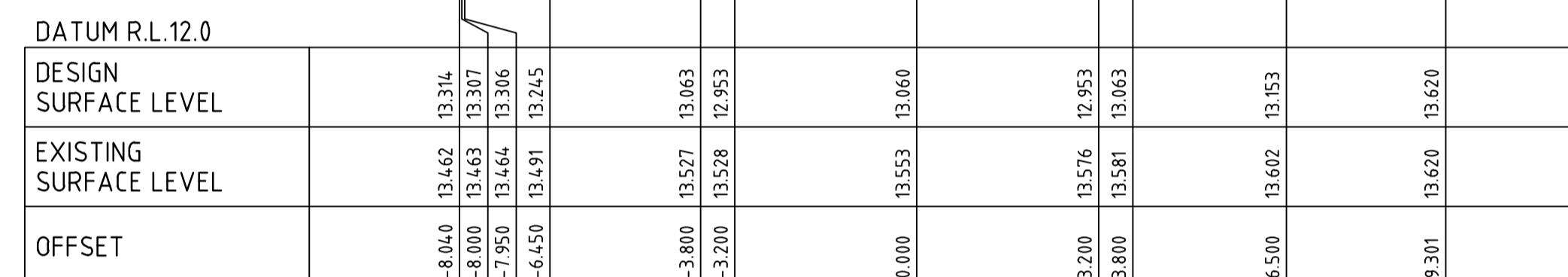
CH 13.60</

**FILLING NOTE**  
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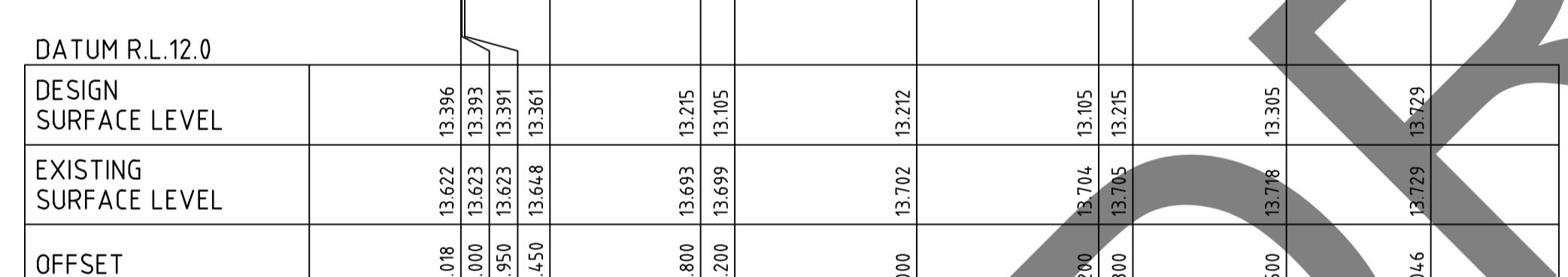
## VELA AVENUE

CH 101.09



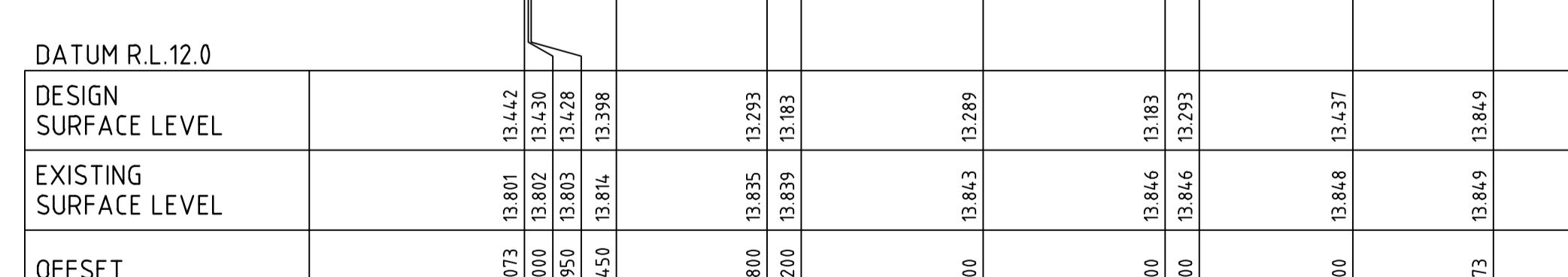
## VELA AVENUE

CH 91.25



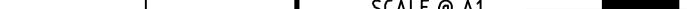
VELA AVENUE

CH 8046



VELA AVENUE

CH 7



Scale  
H 1:100 0 1 2 3  
SCALE @ A1

The image shows two certification logos. On the left, a red star contains the text 'ISO 9001 certified' and 'dlcs'. On the right, a yellow star contains the text 'ISO 45001 certified' and 'dlcs'. Both logos are circular with a stylized star in the center.

System Certified

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The Spire logo consists of the word "spire" in a bold, lowercase, sans-serif font. The letter "i" has two red dots above it, and the letter "e" has a red dot above it, while the other letters are in a dark grey color.

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[spiire.com.au](http://spiire.com.au) ABN 55 050 029 635

**SIG GROUP**

Designed	Checked
<b>D.RAWAT</b>	<b>B.WARNAKULASURIY</b>
Authorised	Date
<b>T.ABBOTT</b>	<b>JULY 2025</b>

# **ALMA ESTATE STAGE 1**

## **ROAD AND DRAINAGE ROAD CROSS SECTIONS - SHEET 5**

### **CASEY CITY COUNCIL**

**PRELIMINARY** Drg No 322764-001CR404

**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.



STRUCTURAL FILL IN ACCORDANCE  
WITH AS3798-2007, LEVEL 1

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 331.02

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 279.44

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 265.10

DATUM R.L.11.0

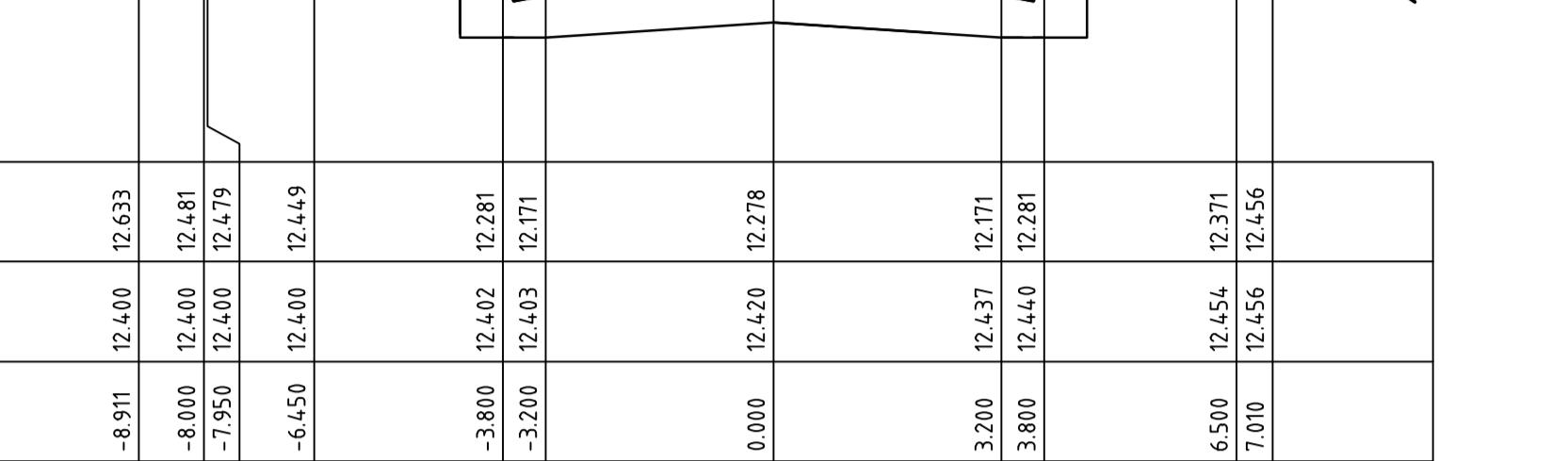
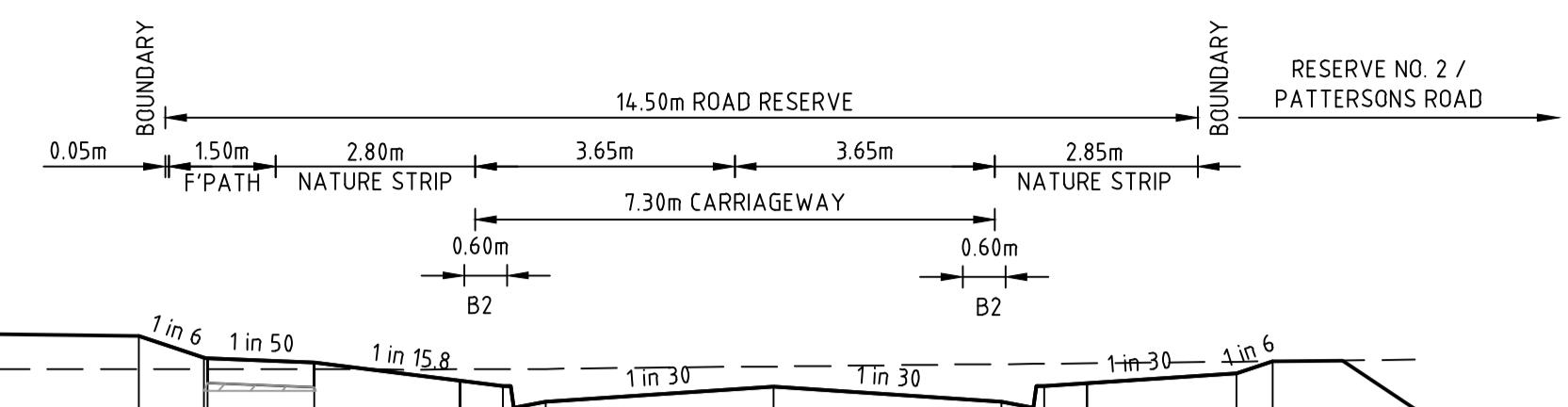
DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 250.01



DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 580.83

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 566.93

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 546.63

DATUM R.L.11.0

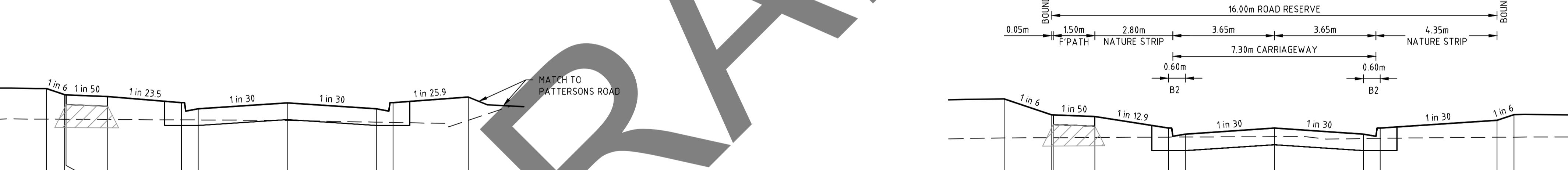
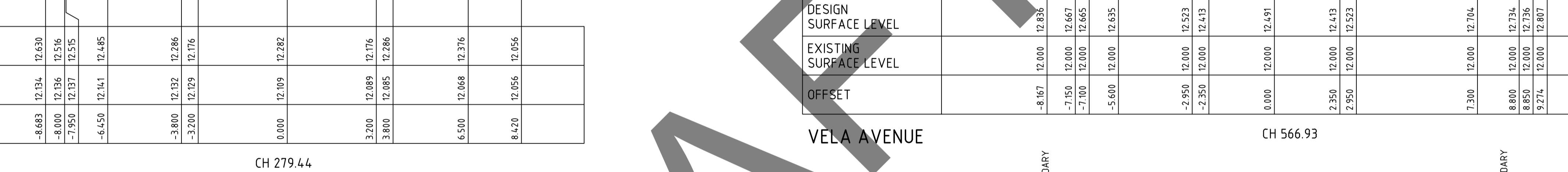
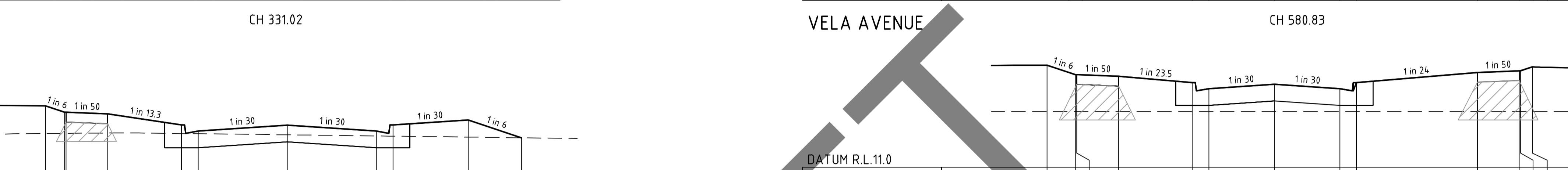
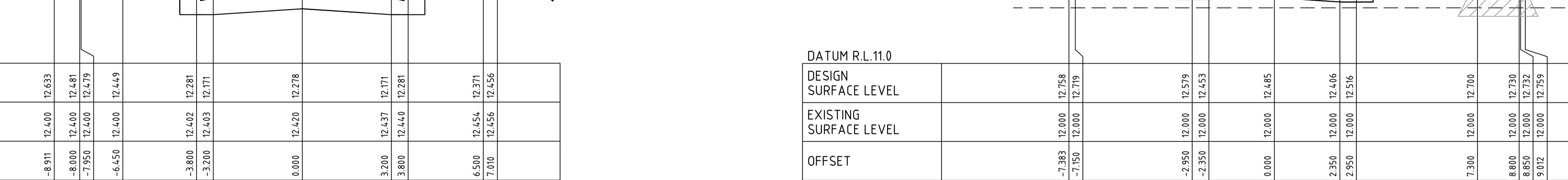
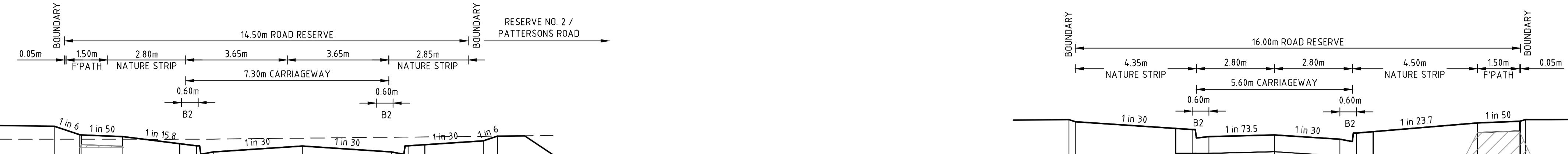
DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET

VELA AVENUE

CH 524.98



B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date

Scale  
H:100  
SCALE @ A1  
V:150  
0 1 2 3 4 5  
0 0.5 1 1.5 2 2.5



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Designed  
D.RAWAT  
Authorised  
T.ABBOTT  
Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

**ALMA ESTATE  
STAGE 1  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS - SHEET 5**  
CASEY CITY COUNCIL  
SIG GROUP  
**PRELIMINARY**  
Dwg No  
322764-001CR405  
Rev  
B

**FILLING NOTE**  
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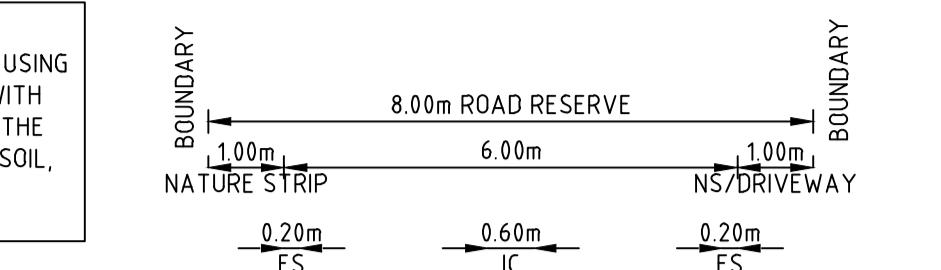
STRUCTURAL FILL IN ACCORDANCE  
WITH AS3798-2007, LEVEL 1

DATUM R.L.12.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET



CAPELLA LANE

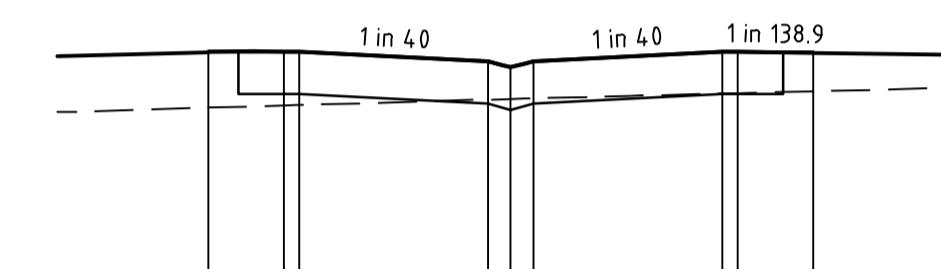
CH 35.00

DATUM R.L.12.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET



CAPELLA LANE

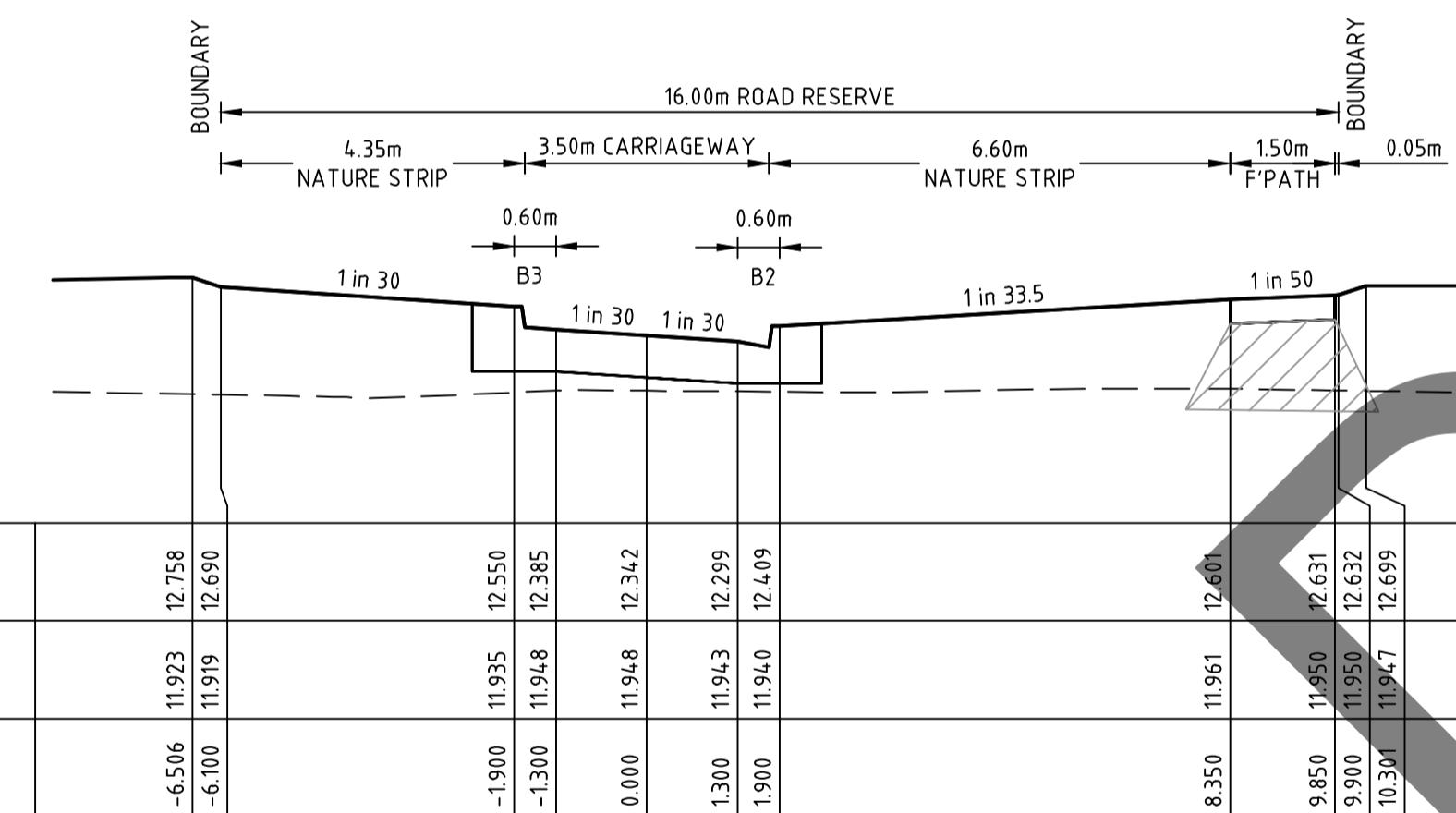
CH 17.00

DATUM R.L.11.0

DESIGN  
SURFACE LEVEL

EXISTING  
SURFACE LEVEL

OFFSET



VELA AVENUE

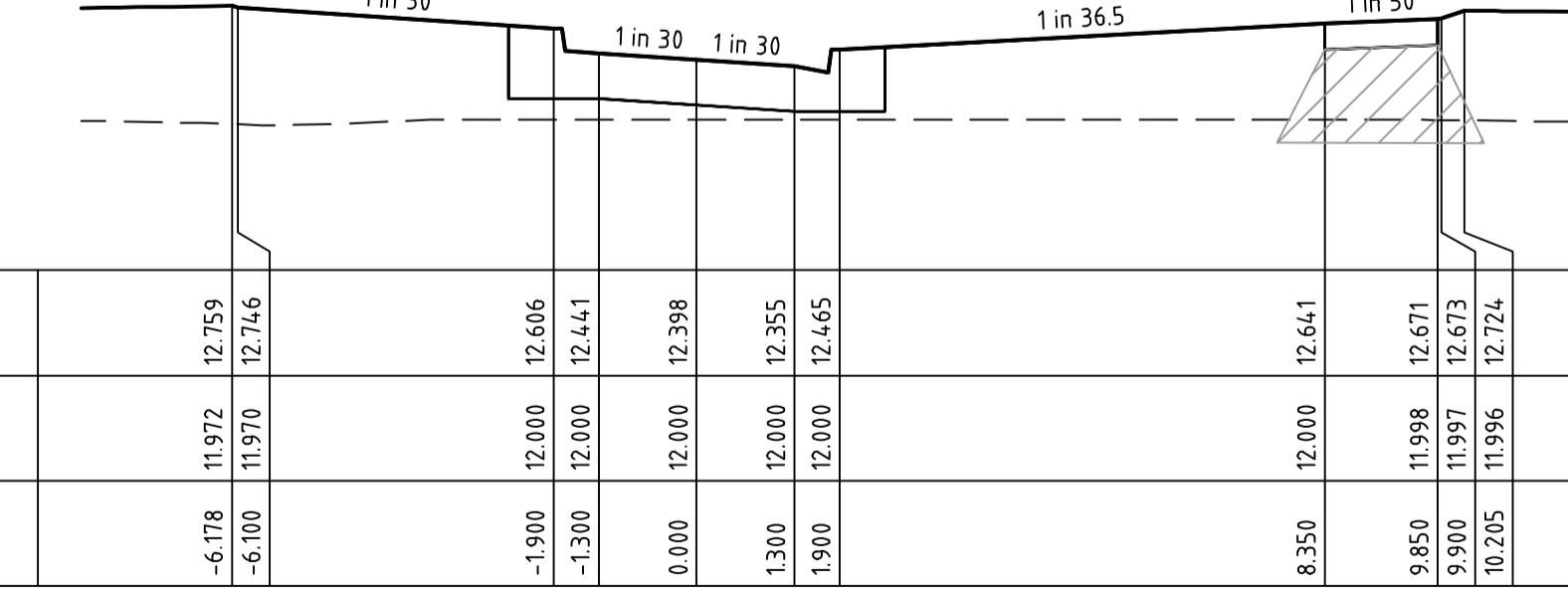
CH 596.80

DATUM R.L.11.0

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SURFACE LEVEL

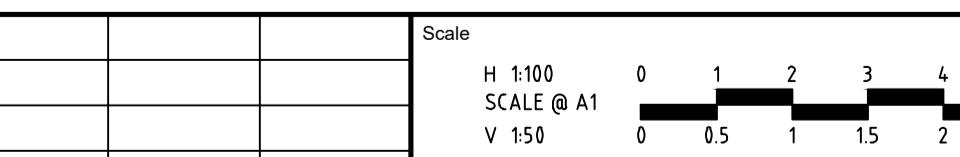
EXISTING  
SURFACE LEVEL

OFFSET



VELA AVENUE

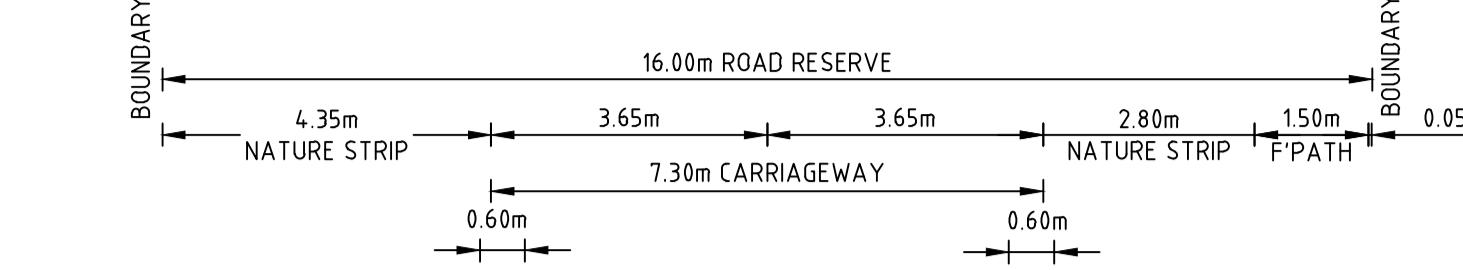
CH 590.28



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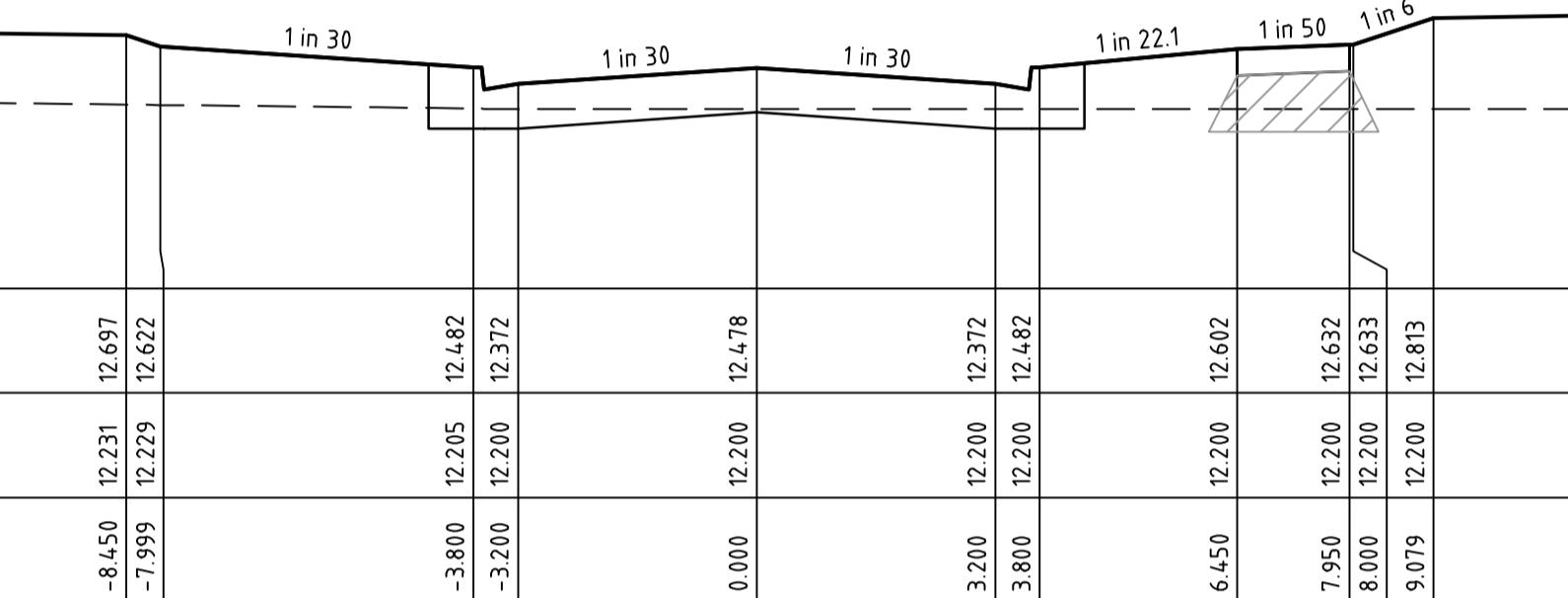
**spire**

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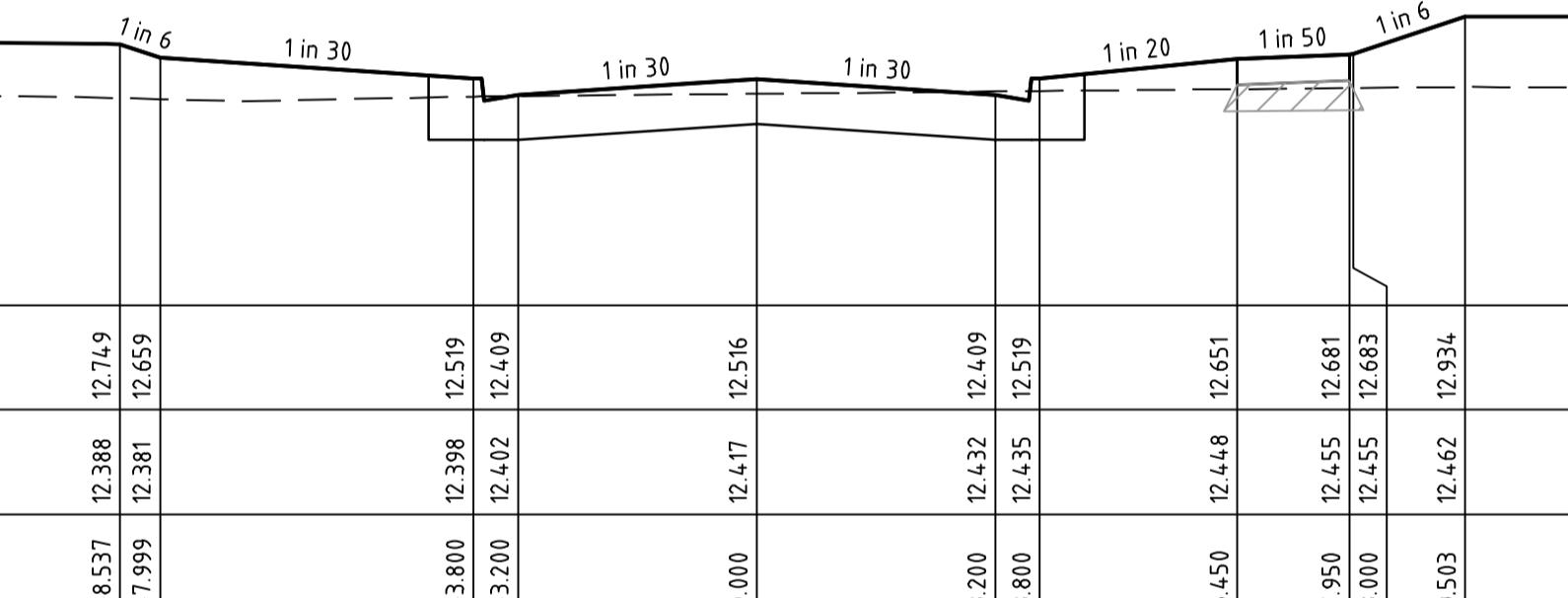
HADAR WAY

CH 64.21



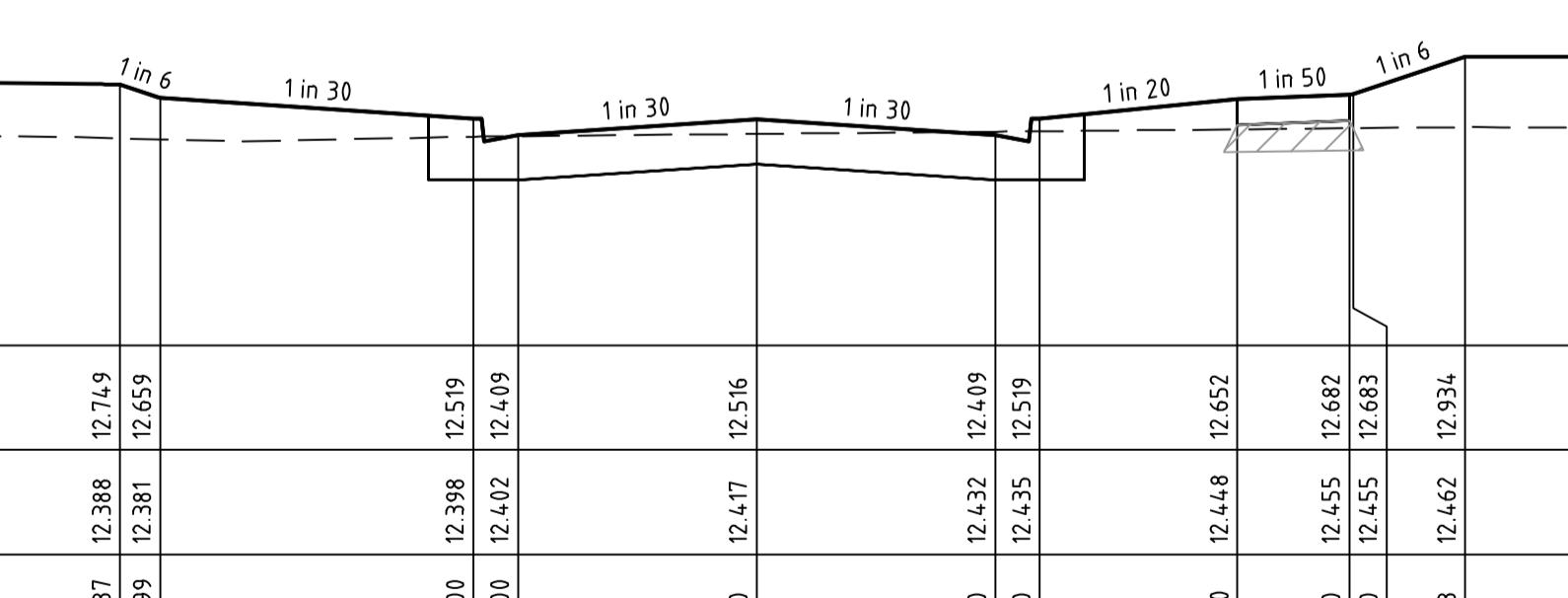
HADAR WAY

CH 32.51



HADAR WAY

CH 11.81



HADAR WAY

CH 11.79

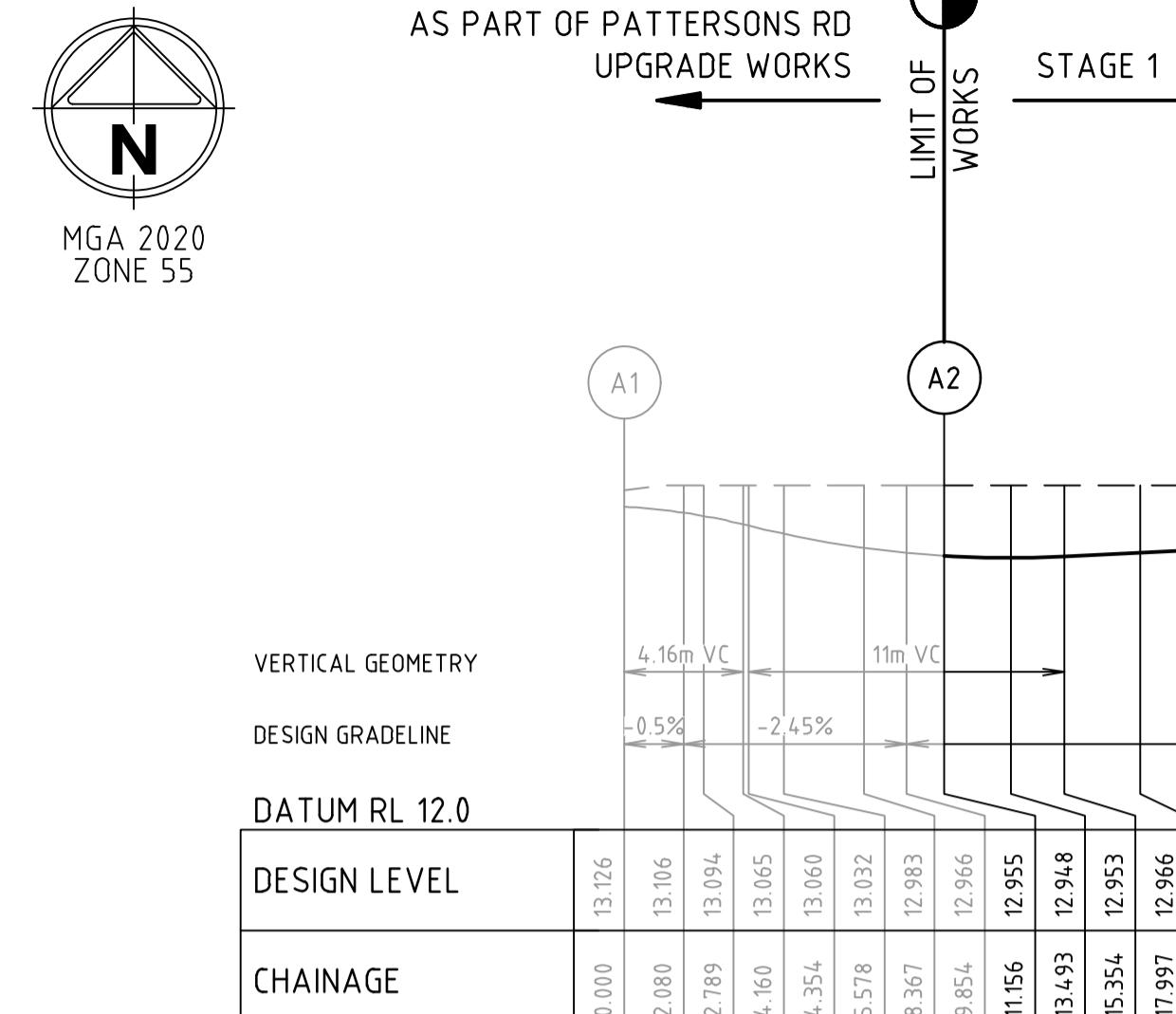
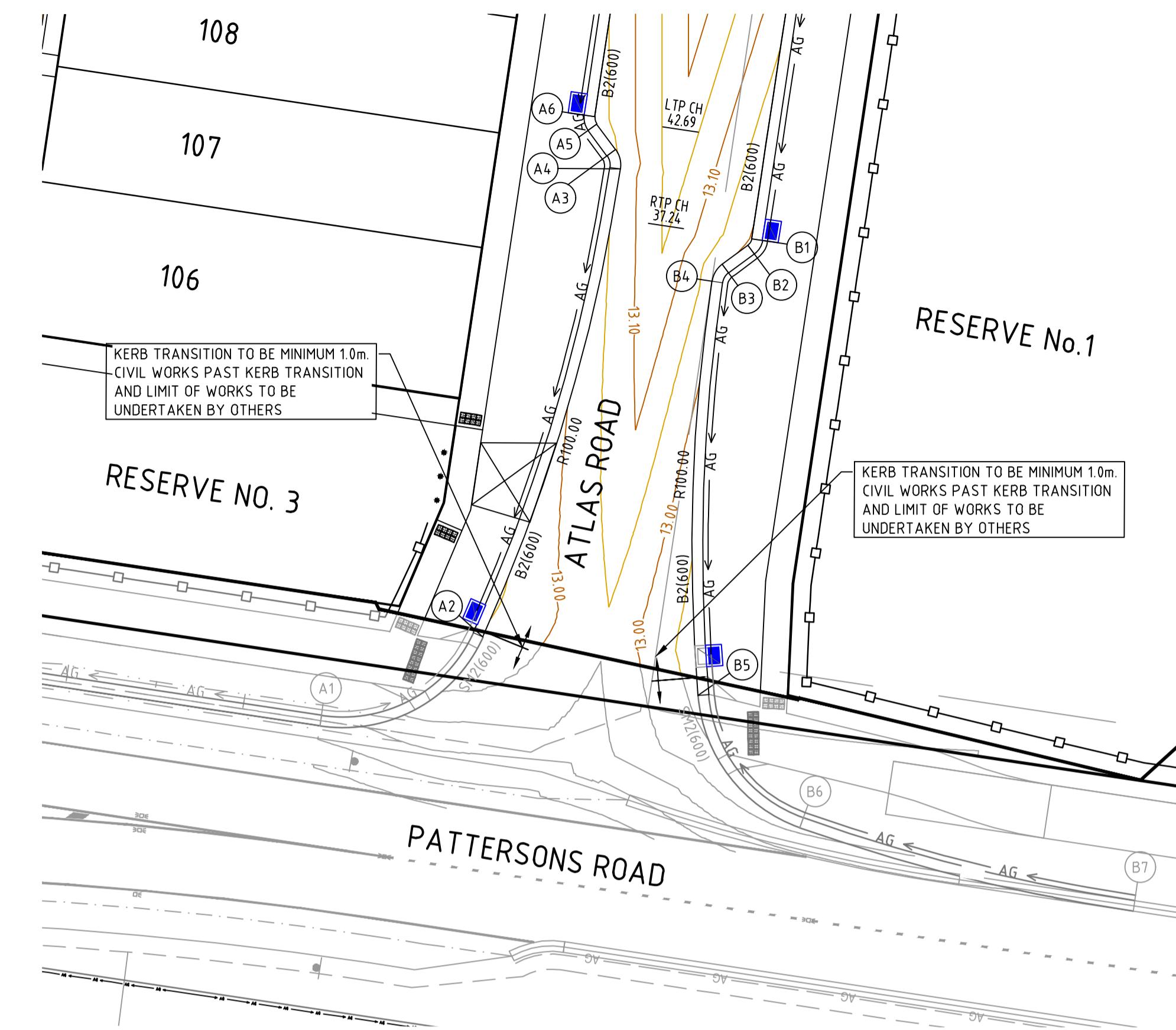
**SIG GROUP**

Designed  
D.RAWAT  
Authorised  
T.ABBOTT

Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

**ALMA ESTATE  
STAGE 1  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS - SHEET 5  
CASEY CITY COUNCIL  
SIG GROUP**

**PRELIMINARY** 322764-001CR406 **B**

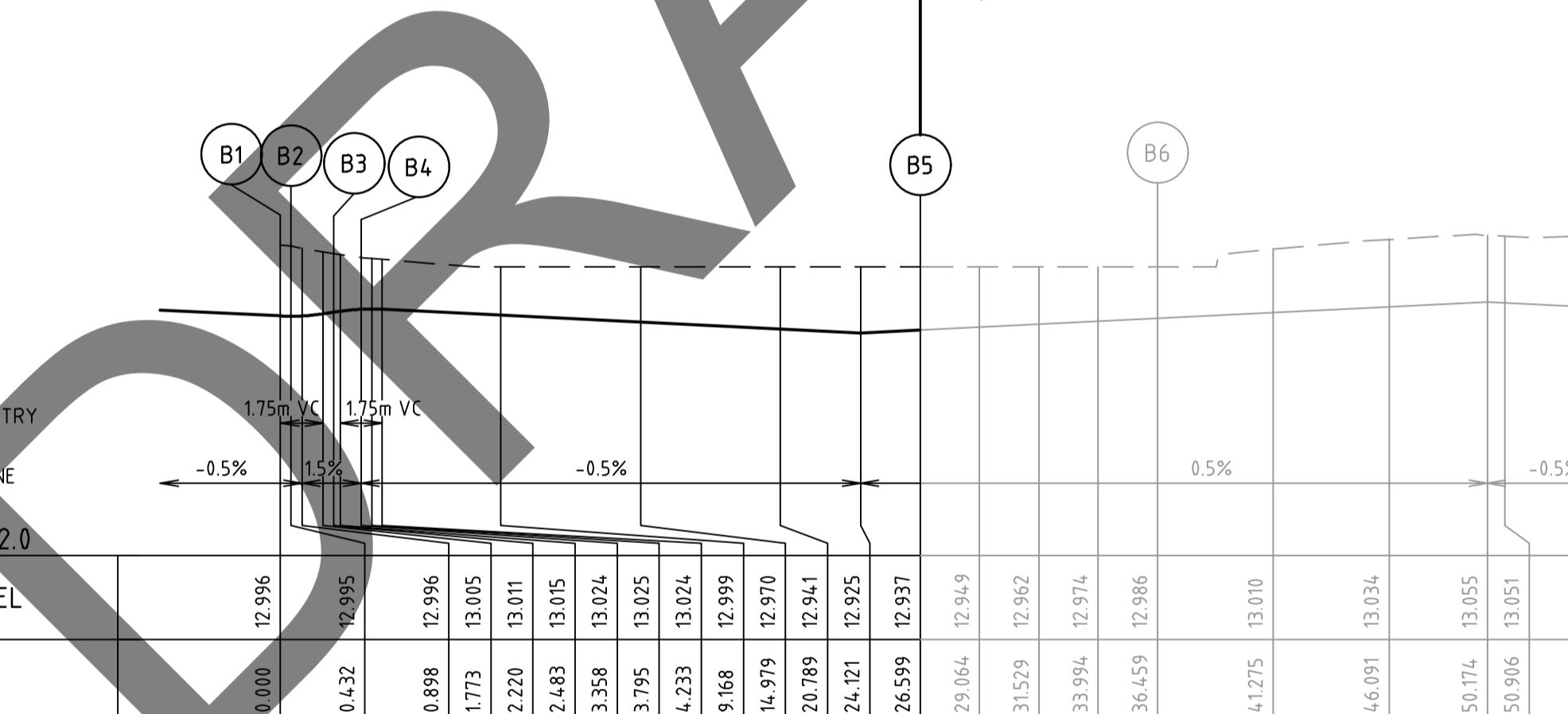


#### ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	357876.611	5779077.929	13.126
1/4	357871.388	5779077.966	13.094
1/2	357874.008	5779078.886	13.032
3/4	357876.198	5779080.592	12.983
A2	357877.731	5779082.907	12.955
1/4	357880.321	5779089.238	12.966
1/2	357882.472	5779095.730	13.000
3/4	357884.174	5779102.355	13.034
A3	357885.420	5779109.080	13.063
A4	357885.152	5779110.157	13.046
A5	357884.089	5779111.595	13.022
A6	357883.988	5779112.003	13.023

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8 600	11.156	10.390	1.746	-0.448
A2-A3	100 000	27.364	27.279	0.935	-0.234
A3-A4	1 450	1.139	1.110	0.110	-0.028
A5-A6	0.550	0.432	0.421	0.042	0.011

#### ALIGNMENT A

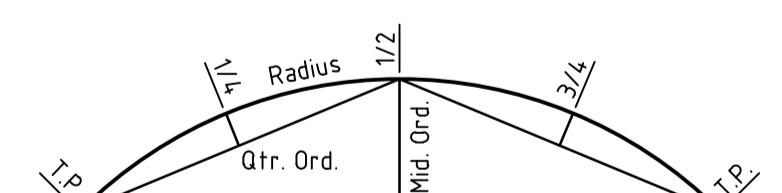


#### ALIGNMENT B

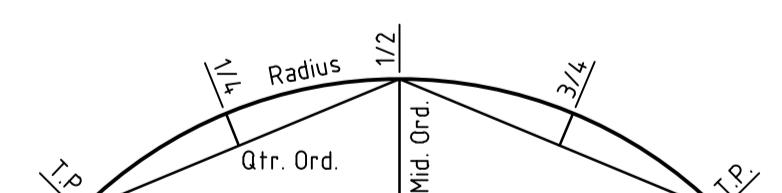
POINT NO	EASTING	NORTHING	RL
B1	357892.772	5779105.174	12.996
B2	357892.555	5779104.814	12.995
B3	357891.117	5779103.751	13.011
B4	357890.545	5779102.801	13.024
1/4	357889.846	5779097.034	12.999
1/2	357889.483	5779091.235	12.970
3/4	357889.458	5779085.426	12.941
B5	357889.770	5779079.624	12.937
1/4	357890.321	5779077.230	12.949
1/2	357891.526	5779075.090	12.962
3/4	357893.287	5779073.317	12.974
B6	357895.460	5779072.232	12.986
1/4	357900.035	5779070.729	13.010
1/2	357904.676	5779069.448	13.034
3/4	357909.374	5779068.391	13.051
B7	357914.118	5779067.563	13.027

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	0 550	0.432	0.421	0.042	0.011
B3-B4	1 450	1.138	1.109	0.110	-0.028
B4-B5	100 000	23.242	23.190	0.674	-0.169
B5-B6	8 600	9.800	9.328	1.375	-0.351
B6-B7	100 000	19.263	19.233	0.463	-0.116

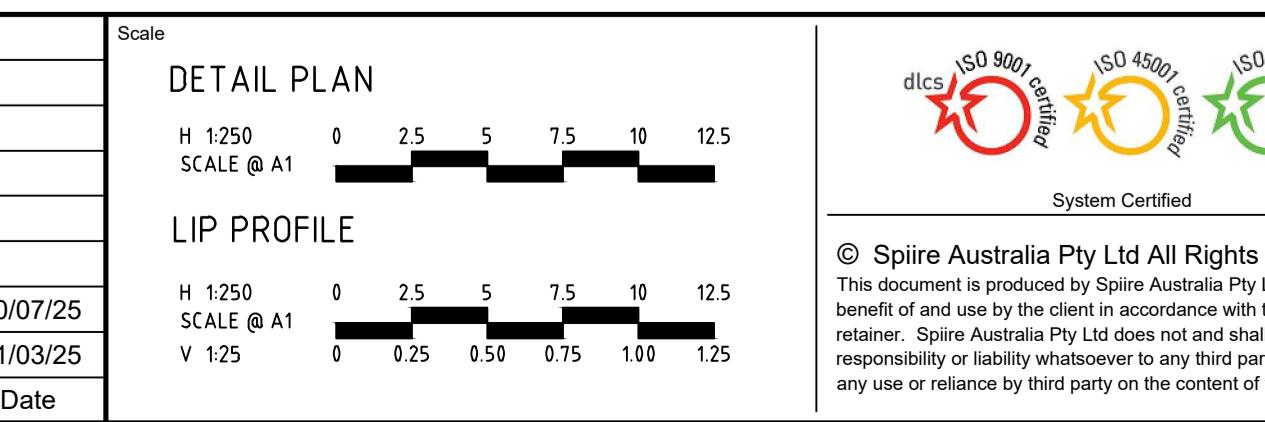
#### ALIGNMENT B

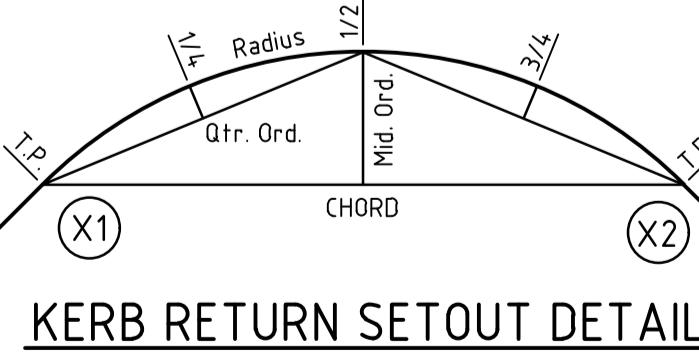
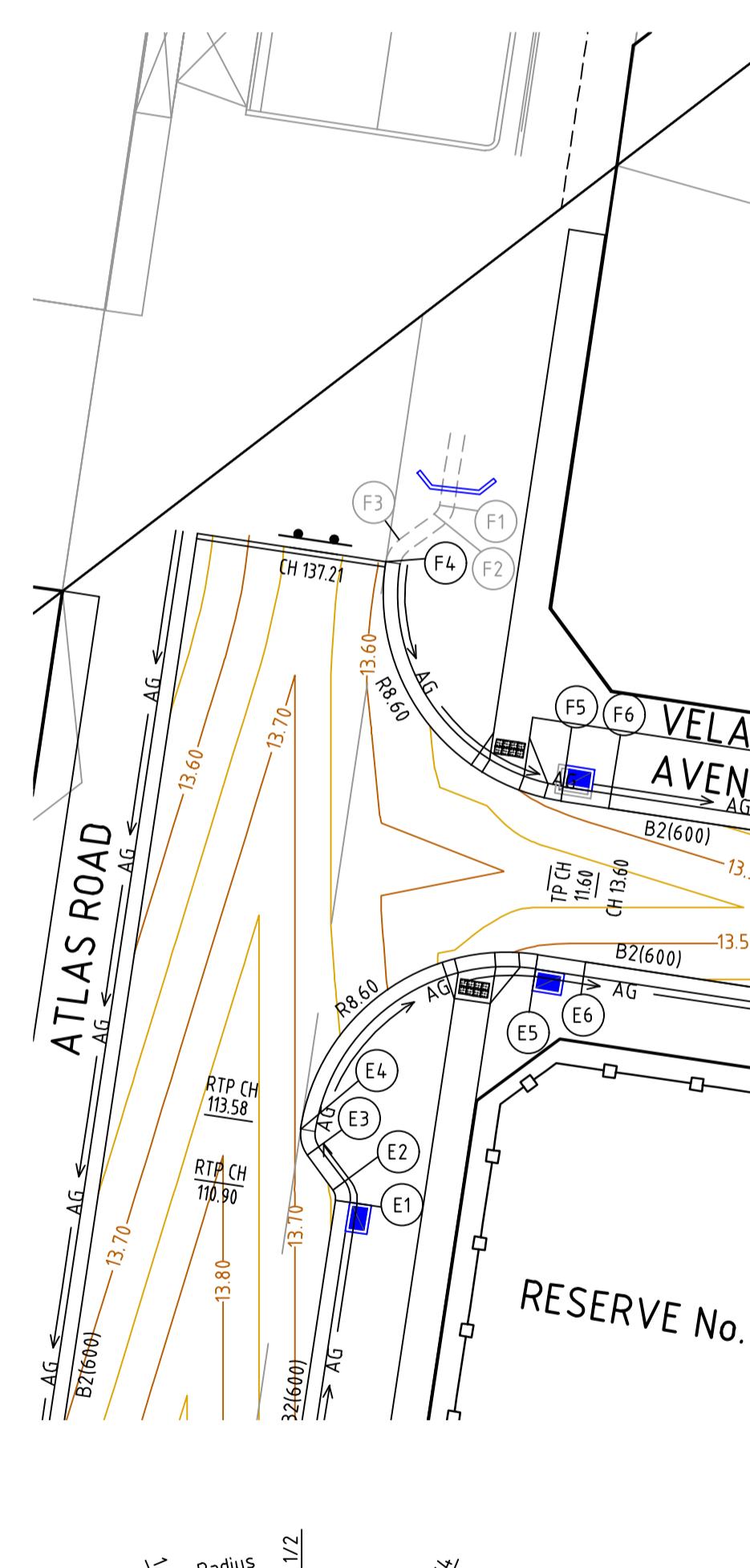
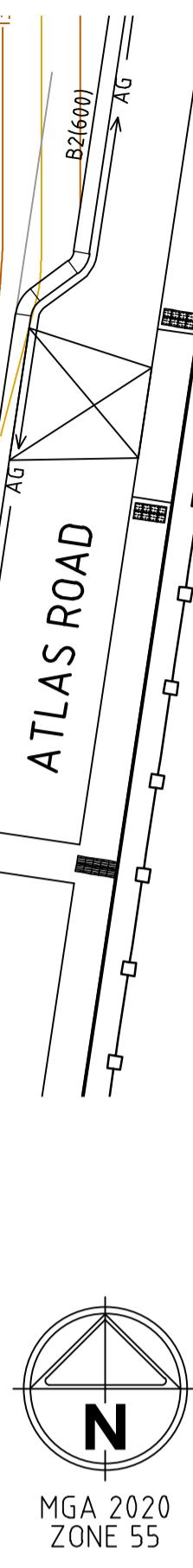
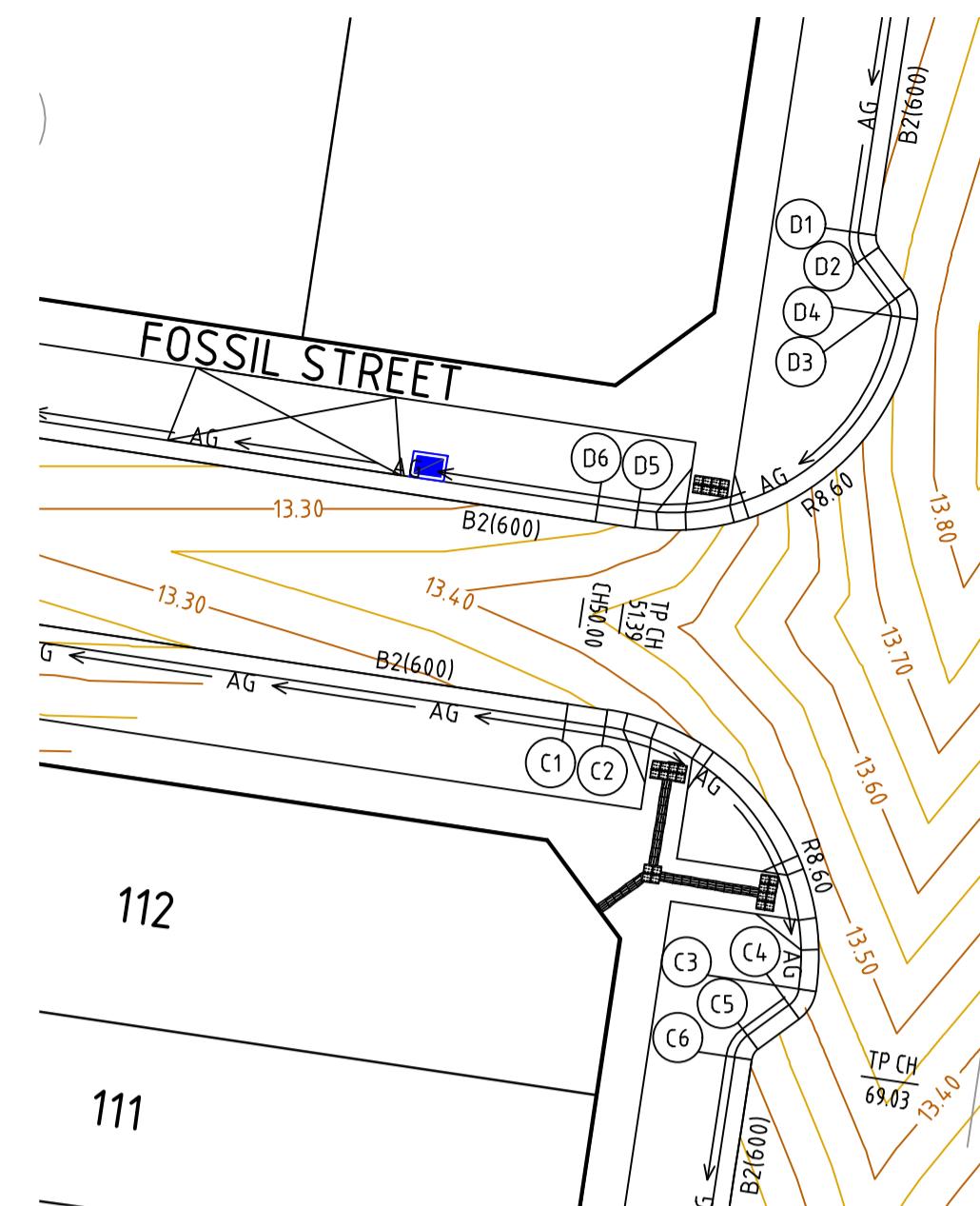


#### KERB RETURN SETOUT DETAIL



ISSUED TO COUNCIL		T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date





KERB RETURN SETOUT DETAIL

N  
MGA 2020  
ZONE 55

VERTICAL GEOMETRY

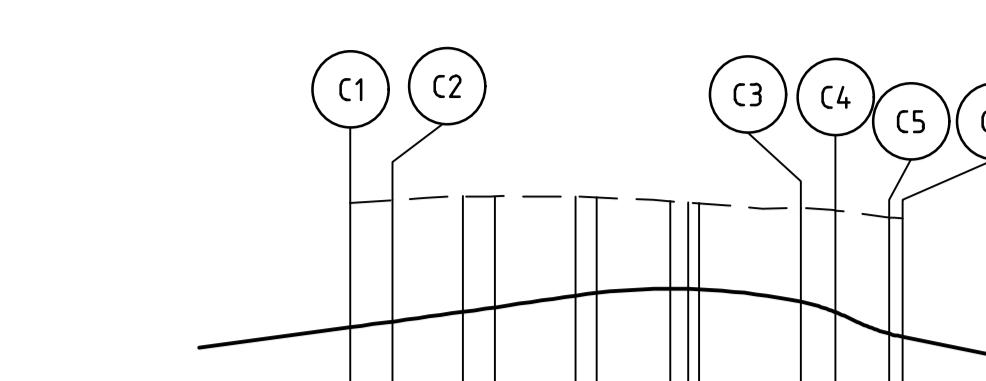
DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT C



ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	357881.514	5779150.418	13.337
C2	357882.895	5779150.211	13.355
1/4	357886.052	5779149.075	13.403
1/2	357888.535	5779146.817	13.451
3/4	357889.964	5779143.782	13.463
C3	357890.124	5779140.430	13.421
C4	357889.551	5779139.479	13.387
C5	357888.114	5779138.416	13.315
C6	357887.897	5779138.055	13.305

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C2 - C3	8.600	13.509	12.162	2.519	0.655
C3 - C4	1.450	1.139	1.110	0.110	0.028
C5 - C6	0.550	0.432	0.421	0.042	-0.011

VERTICAL GEOMETRY

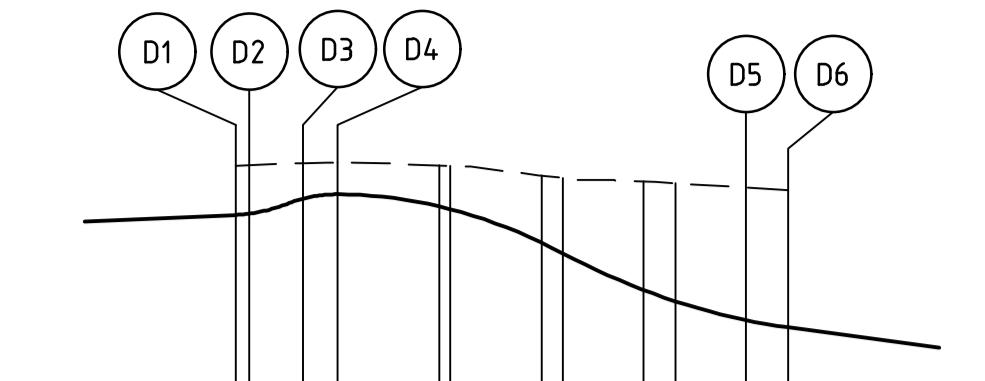
DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT D



ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	357892.193	5779166.692	13.708
D2	357892.295	5779166.283	13.712
D3	357893.357	5779164.846	13.762
D4	357893.625	5779163.769	13.777
1/4	357892.490	5779160.611	13.736
1/2	357890.232	5779158.128	13.616
3/4	357887.196	5779156.699	13.460
D5	357883.844	5779156.540	13.360
D6	357882.464	5779156.747	13.337

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1 - D2	0.550	0.432	0.421	0.042	-0.011
D3 - D4	1.450	1.139	1.110	0.110	0.028
D4 - D5	8.600	13.509	12.162	2.519	0.655

VERTICAL GEOMETRY

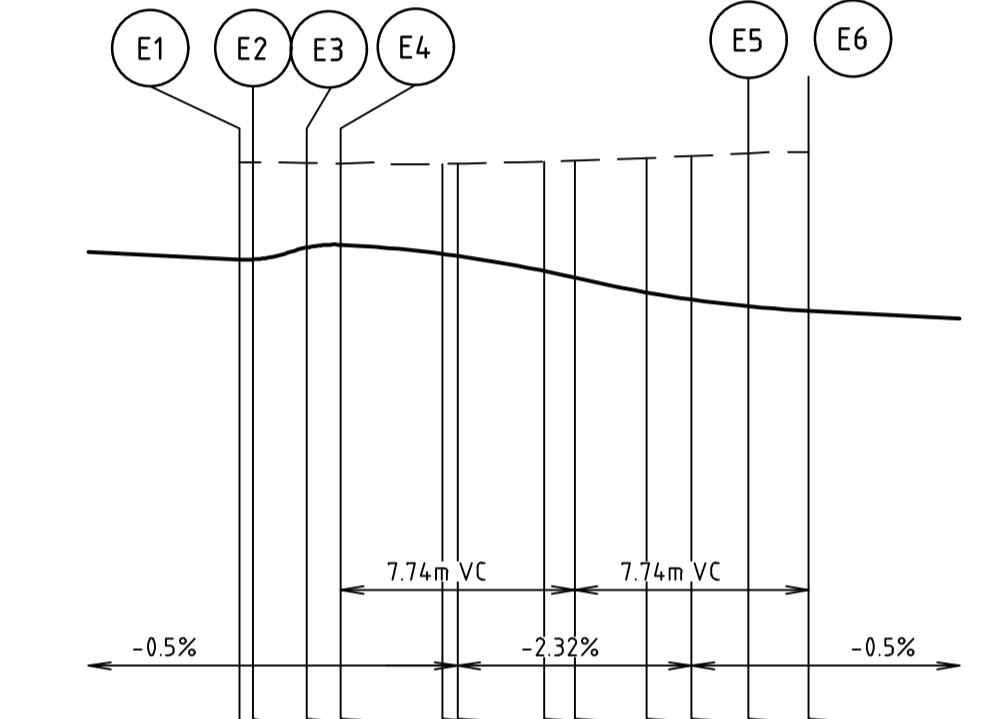
DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT E



ALIGNMENT E

POINT NO	EASTING	NORTHING	RL
E1	357903.701	5779178.016	13.644
E2	357903.599	5779178.425	13.644
E3	357902.537	5779179.862	13.683
E4	357902.267	5779180.925	13.692
1/4	357903.411	5779184.070	13.662
1/2	357905.669	5779186.541	13.605
3/4	357908.699	5779187.962	13.535
E5	357912.042	5779188.119	13.489
E6	357914.020	5779187.822	13.474

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1 - E2	0.550	0.432	0.421	0.042	-0.011
E3 - E4	1.450	1.139	1.110	0.110	0.027
E4 - E5	8.600	13.509	12.137	2.506	0.651

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

VERTICAL GEOMETRY

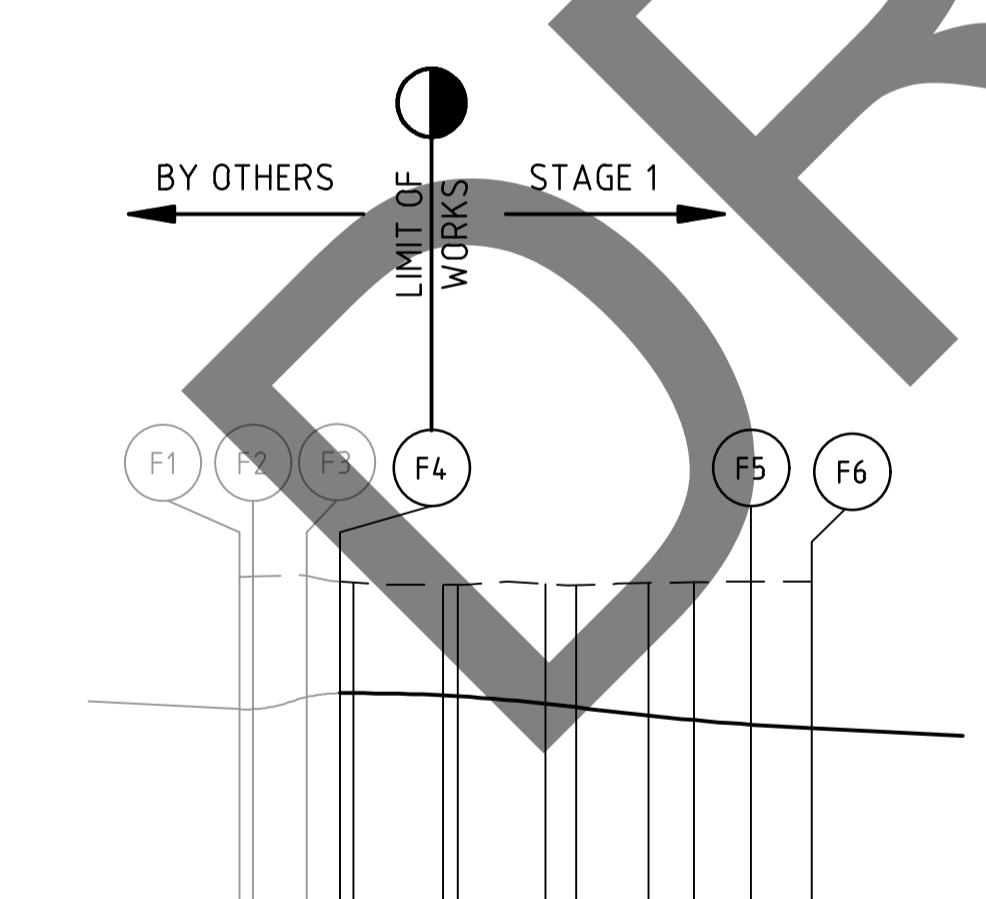
DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT F



ALIGNMENT F

POINT NO	EASTING	NORTHING	RL
F1	357907.997	5779206.653	13.537
F2	357907.780	5779206.292	13.537
F3	357906.342	5779205.229	13.577
F4	357905.776	5779204.313	13.590
1/4	357905.907	5779200.939	13.583
1/2	357907.326	5779197.875	13.555
3/4	357909.816	5779195.595	13.516
F5	357912.992	5779194.448	13.486
F6	357914.968	5779194.139	13.474

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1 - F2	0.550	0.432	0.421	0.042	0.011
F3 - F4	1.450	1.104	1.078	0.104	-0.026
F4 - F5	8.600	13.594	12.222	2.549	-0.663

DETAIL PLAN

SCALE @ A1

H: 1:250

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LIP PROFILE

SCALE @ A1

H: 1:25

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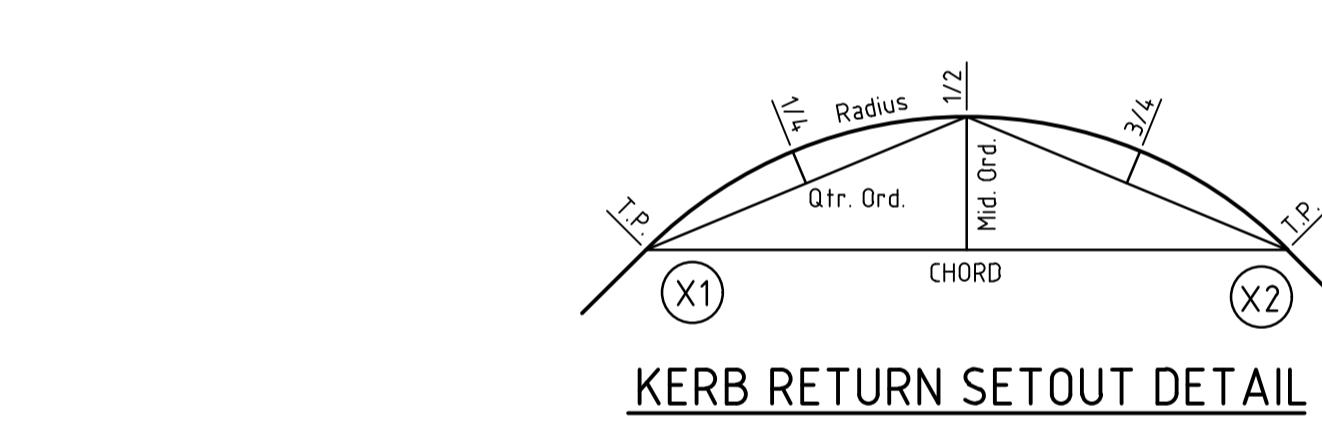
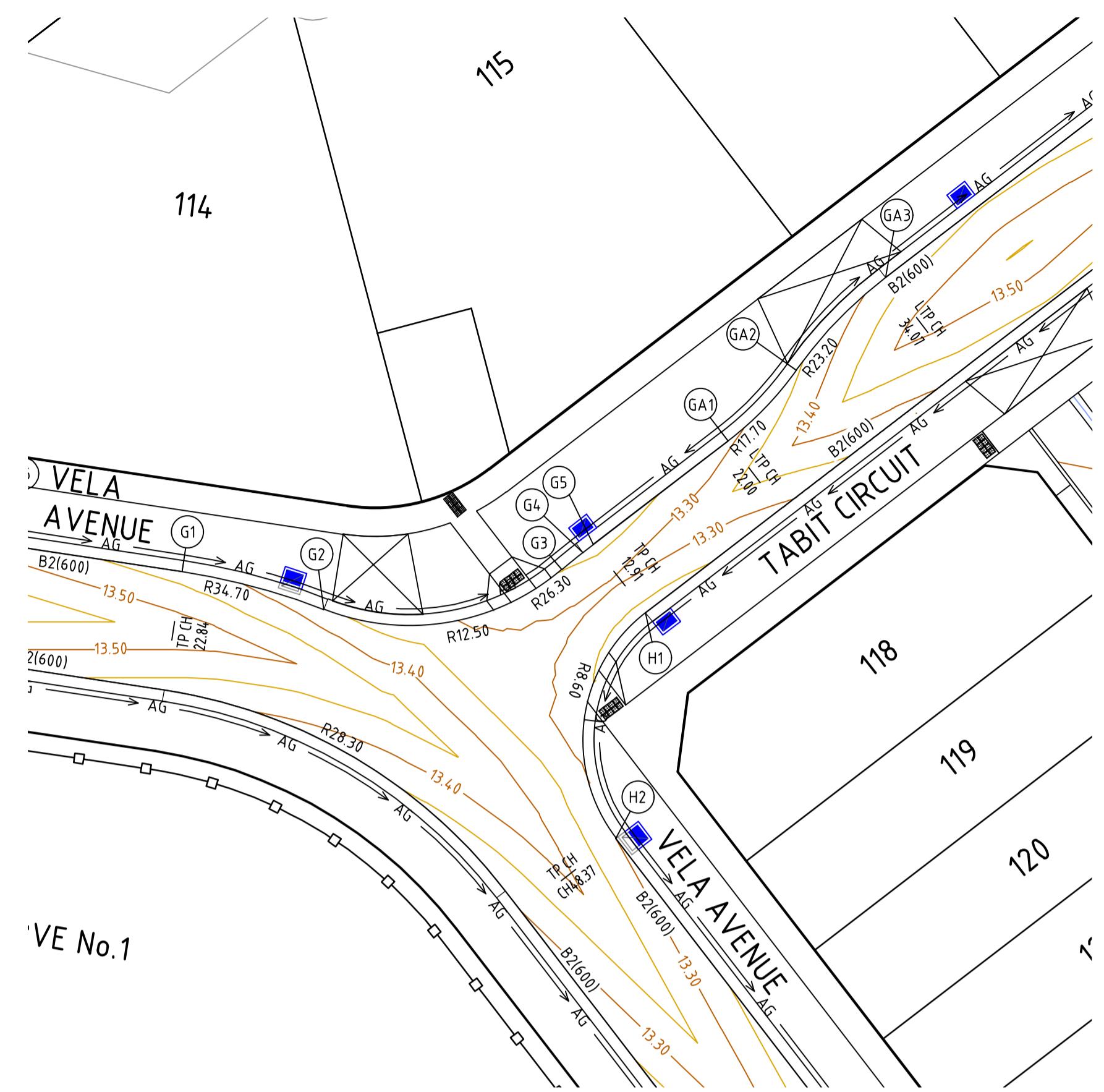
System Certified

dcis ISO 9001:2015  
AS/NZS ISO 45001:2018  
AS/NZS ISO 14001:2015

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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
VICTORIA 3007 AUSTRALIA T 61 3 9993 7888  
spiire.com.au ABN 55 050 029 635

**SIG GROUP**

Designed  
D.RAWAT  
Checked  
B.WARNAKULASURIYA  
Authorised  
T.ABBOTT  
Date  
JULY 2025



N  
MGA 2020  
ZONE 55

DRAFT

### ALIGNMENT G

#### VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

### ALIGNMENT G

#### VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

### ALIGNMENT GA

#### VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

### ALIGNMENT H

#### VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 12.0

DESIGN LEVEL

CHAINAGE

### ALIGNMENT G

POINT NO	EASTING	NORTHING	RL
G1	357924.109	5779192.780	13.428
1/4	357926.044	5779192.433	13.411
1/2	357927.957	5779191.977	13.395
3/4	357929.842	5779191.414	13.378
G2	357931.691	5779190.744	13.362
1/4	357934.975	5779189.941	13.333
1/2	357938.354	5779190.046	13.305
3/4	357941.581	5779191.054	13.276
G3	357944.420	5779192.889	13.248
G4	357945.544	5779193.802	13.235
G5	357946.098	5779194.227	13.230

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G1-G2	34.700	7.868	7.851	0.223	0.056
G2-G3	12.500	13.565	12.909	1.795	-0.457
G3-G4	26.300	1.448	1.448	0.010	0.002

### ALIGNMENT GA

POINT NO	EASTING	NORTHING	RL
GA1	357953.315	5779199.764	13.289
1/4	357954.330	5779200.604	13.303
1/2	357955.279	5779201.518	13.316
3/4	357956.158	5779202.499	13.330
GA2	357956.961	5779203.543	13.344
1/4	357958.014	5779204.912	13.361
1/2	357959.166	5779206.198	13.379
3/4	357960.410	5779207.396	13.397
GA3	357961.740	5779208.497	13.415

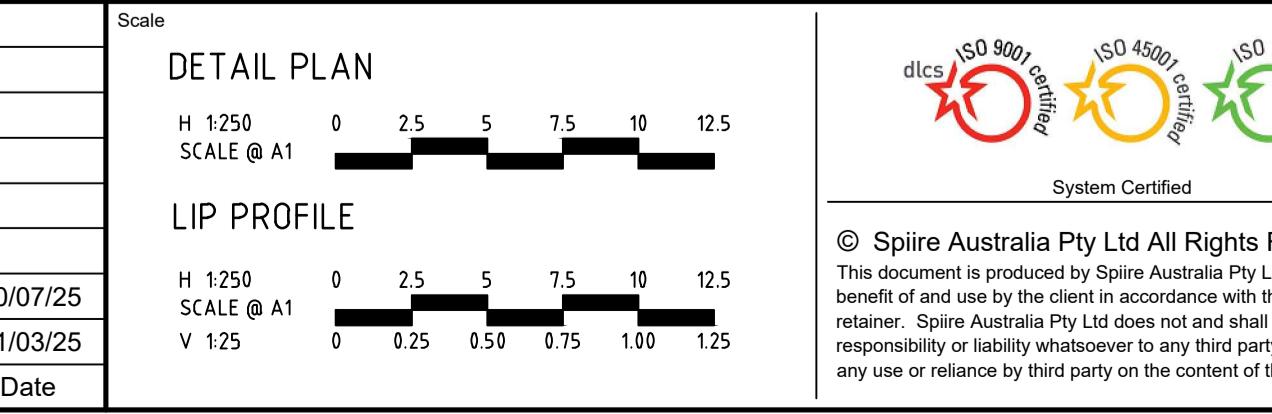
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
GA1-GA2	17.700	5.271	5.251	0.196	-0.049
GA2-GA3	23.200	6.909	6.883	0.257	0.064

### ALIGNMENT H

POINT NO	EASTING	NORTHING	RL
H1	357948.899	5779190.578	13.231
1/4	357946.685	5779188.054	13.240
1/2	357945.607	5779184.875	13.272
3/4	357945.827	5779181.525	13.302
H2	357947.314	5779178.515	13.300

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H1-H2	8.600	13.514	12.166	2.521	-0.655

ISSUED TO COUNCIL		T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date

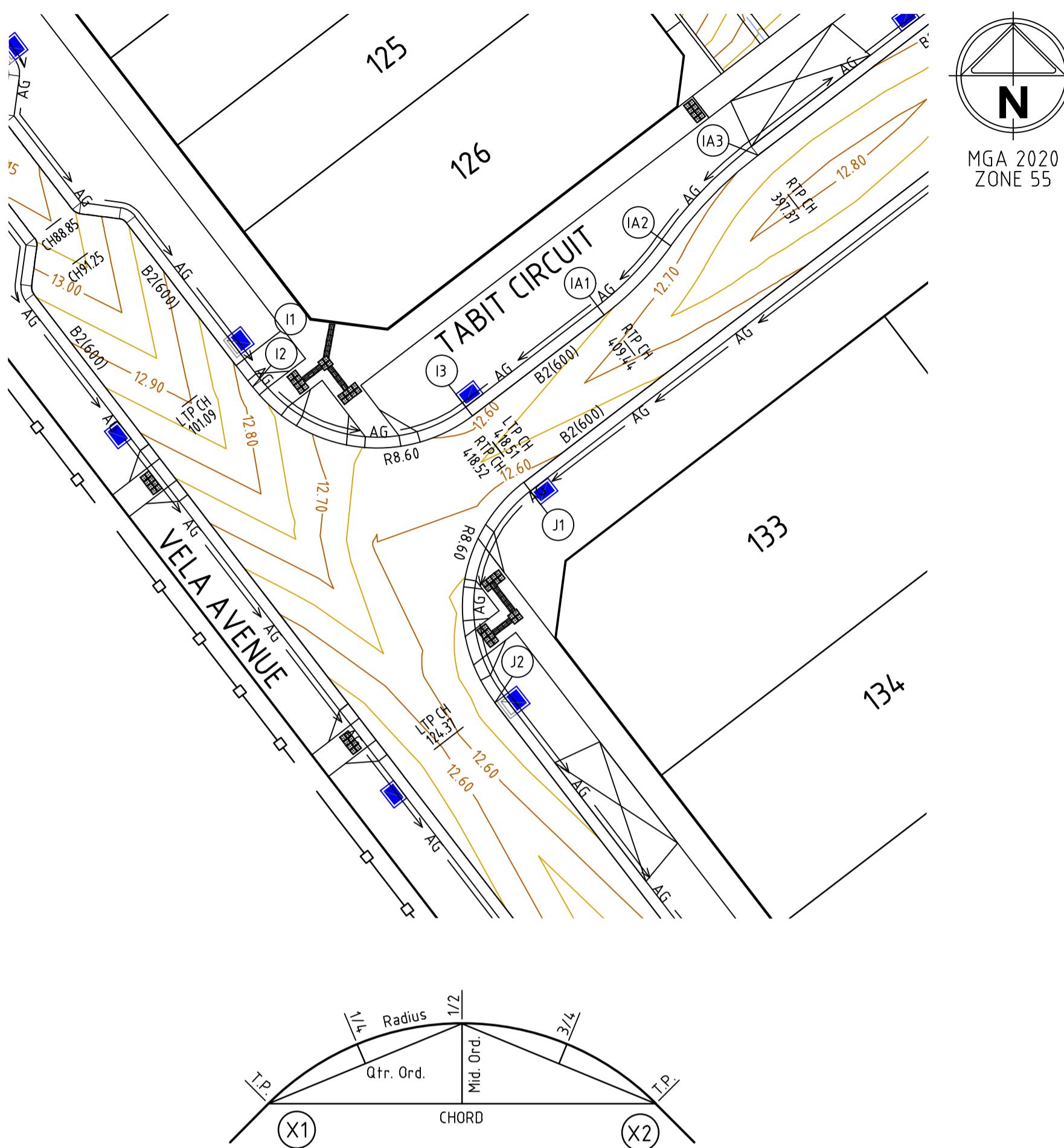


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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
VICTORIA 3007 AUSTRALIA T 613 9993 7888  
spiire.com.au ABN 55 050 029 635

**SIG GROUP**

Designed  
D.RAWAT  
Checked  
B.WARNAKULASURIYA  
Authorised  
T.ABBOTT  
Date  
JULY 2025

**ALMA ESTATE STAGE 1 ROAD & DRAINAGE INTERSECTION DETAILS - SHEET 3 CASEY CITY COUNCIL SIG GROUP**  
**PRELIMINARY** 322764-001 CR502 B



ALIGNMENT I

ALIGNMENT I

POINT NO	EASTING	NORTHING	RL
I 1	357979.430	5779136.708	12.796
I 2	357980.332	5779135.534	12.772
1/4	357982.855	5779133.323	12.715
1/2	357986.032	5779132.246	12.655
3/4	357989.379	5779132.466	12.608
I 3	357992.387	5779133.950	12.582

CURVE I 2 - I 3      RADIUS 8.600    ARC L 13.504    CHORD 12.159    MID ORD 2.517    QTR ORD -0.654

ALIGNMENT IA

POINT NO	EASTING	NORTHING	RL
IA 1	357999.994	5779139.479	12.646
1/4	358000.608	5779140.319	12.653
1/2	358001.558	5779141.233	12.659
3/4	358002.436	5779142.214	12.666
IA 2	358003.240	5779143.258	12.673
1/4	358004.293	5779144.627	12.681
1/2	358005.444	5779145.913	12.690
3/4	358006.689	5779147.110	12.699
IA 3	358008.019	5779148.212	12.708

CURVE IA 1 - IA 2      RADIUS 17.700    ARC L 5.271    CHORD 5.251    MID ORD 0.196    QTR ORD -0.049  
IA 2 - IA 3      RADIUS 23.200    ARC L 6.908    CHORD 6.883    MID ORD 0.257    QTR ORD 0.064

ALIGNMENT I

ALIGNMENT IA

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL
J 1	357995.198	5779130.308	12.582
1/4	357992.984	5779127.784	12.564
1/2	357991.906	5779124.606	12.547
3/4	357992.127	5779121.256	12.530
J 2	357993.613	5779118.246	12.513

CURVE J 1 - J 2      RADIUS 8.600    ARC L 13.514    CHORD 12.166    MID ORD 2.521    QTR ORD -0.655

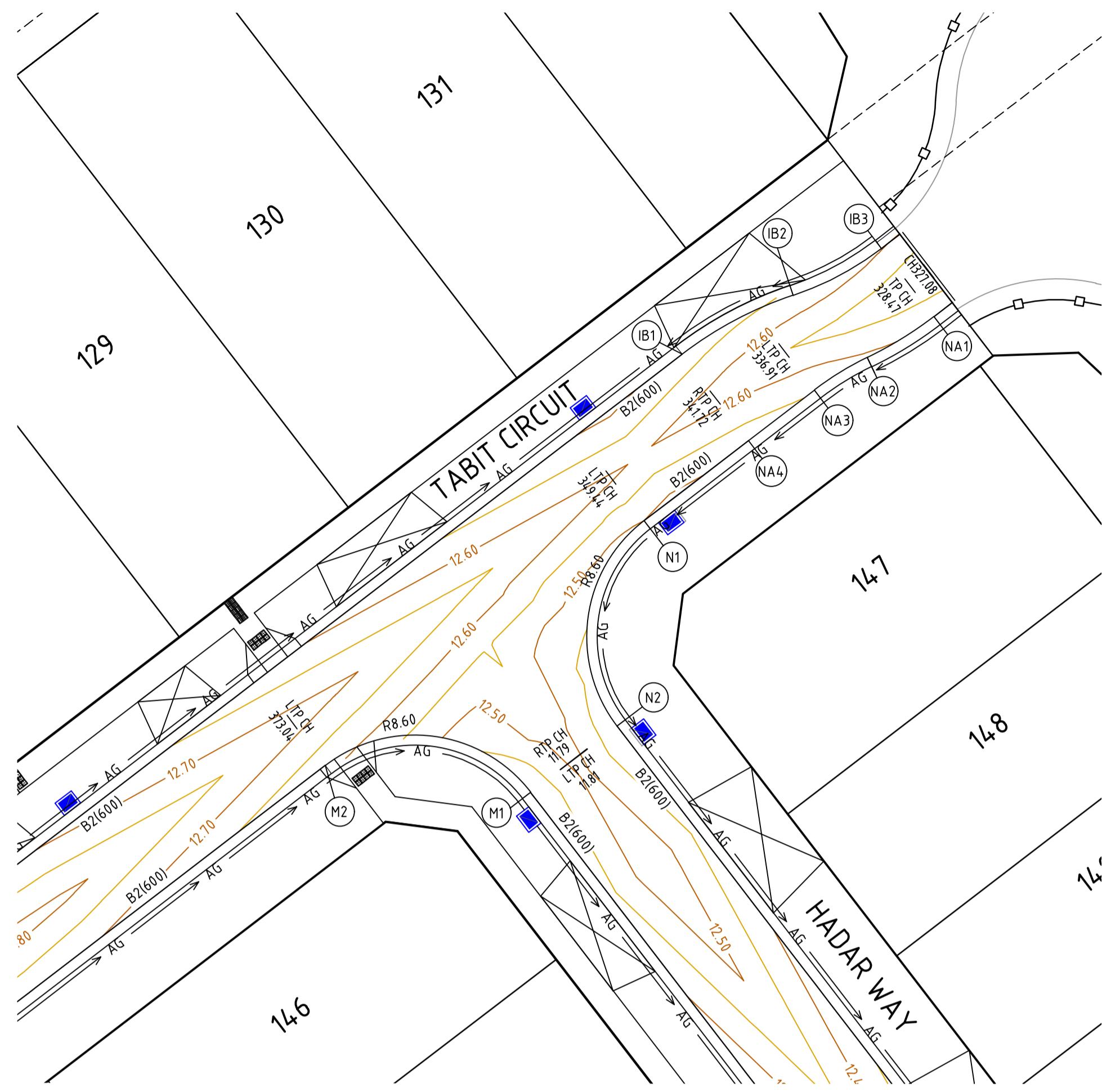
ALIGNMENT J

ALIGNMENT K

ALIGNMENT KA

ALIGNMENT L

ALIGNMENT KA



N  
MGA 2020  
ZONE 55

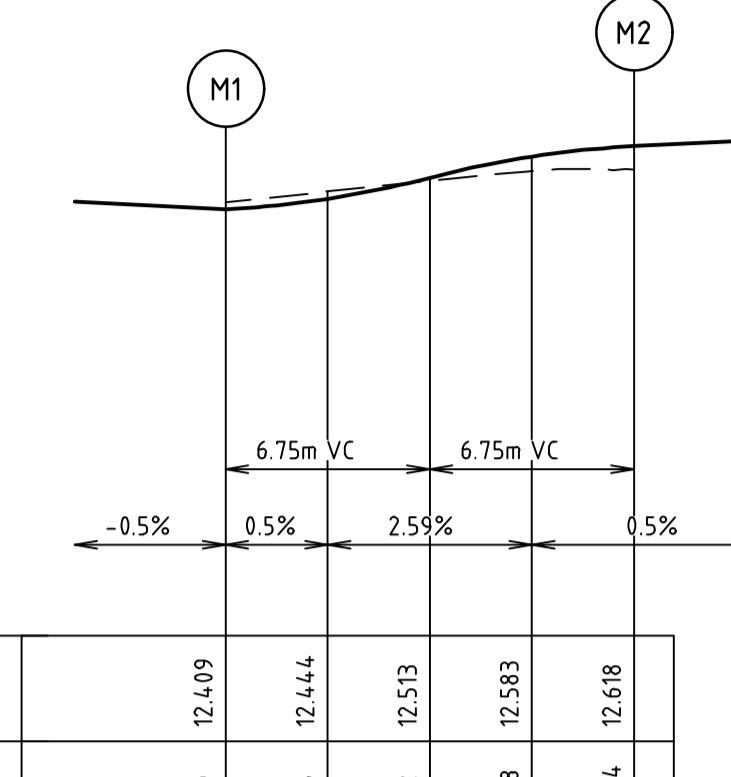
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL

CHAINAGE

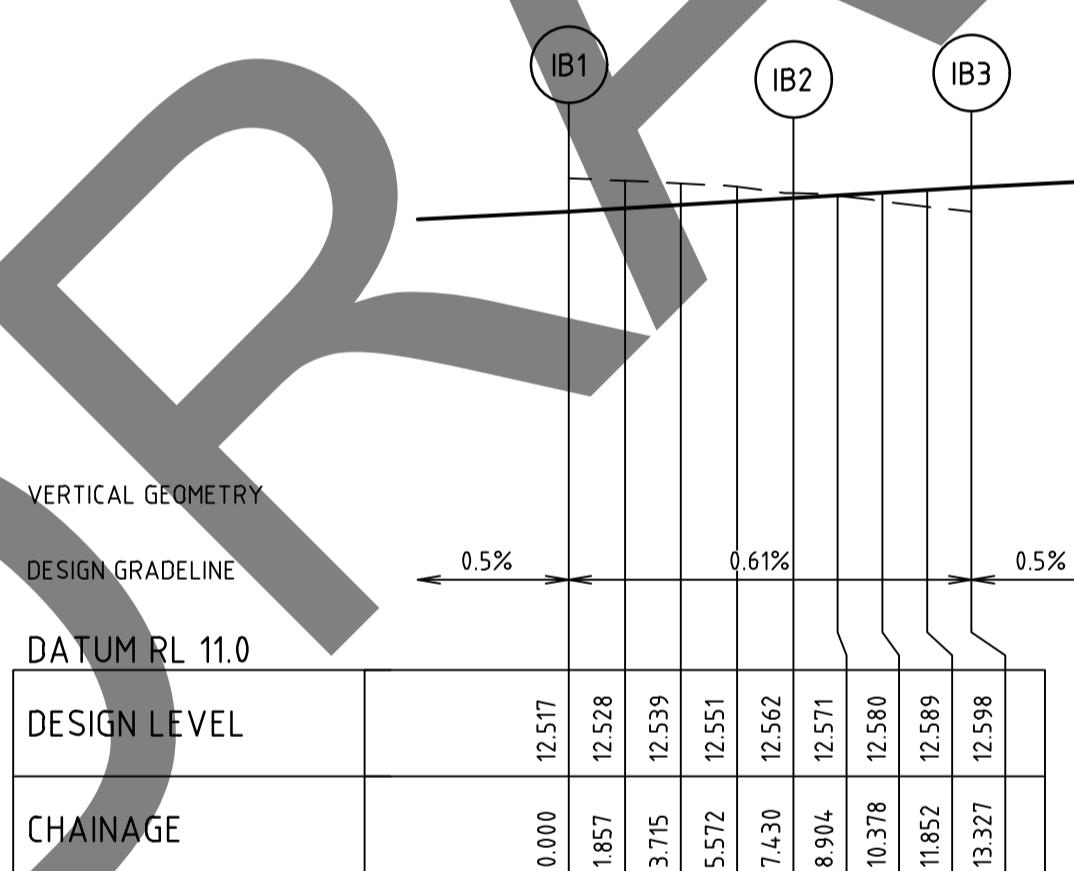


ALIGNMENT M

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL
M1	358043.272	5779156.360	12.409
1/4	358040.749	5779158.571	12.444
1/2	358037.573	5779159.648	12.513
3/4	358034.226	5779159.428	12.583
M2	358031.217	5779157.944	12.618

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	8.600	13.504	12.159	2.517	-0.654

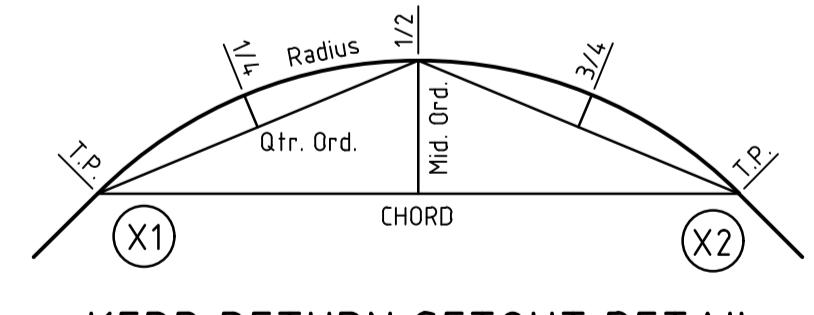


ALIGNMENT IB

ALIGNMENT IB

POINT NO	EASTING	NORTHING	RL
IB1	358052.172	5779182.089	12.517
1/4	358053.691	5779183.157	12.528
1/2	358055.294	5779184.095	12.539
3/4	358056.963	5779184.896	12.551
IB2	358058.705	5779185.555	12.562
1/4	358060.082	5779186.078	12.571
1/2	358061.412	5779186.714	12.580
3/4	358062.684	5779187.459	12.589
IB3	358063.890	5779188.307	12.598

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
IB1-IB2	22.300	7.430	7.395	0.309	0.077
IB2-IB3	17.700	5.897	5.870	0.245	-0.061



KERB RETURN SETOUT DETAIL

dcis ISO 9001:2015  
AS/NZS ISO 45001:2018  
AS/NZS ISO 14001:2015  
System Certified

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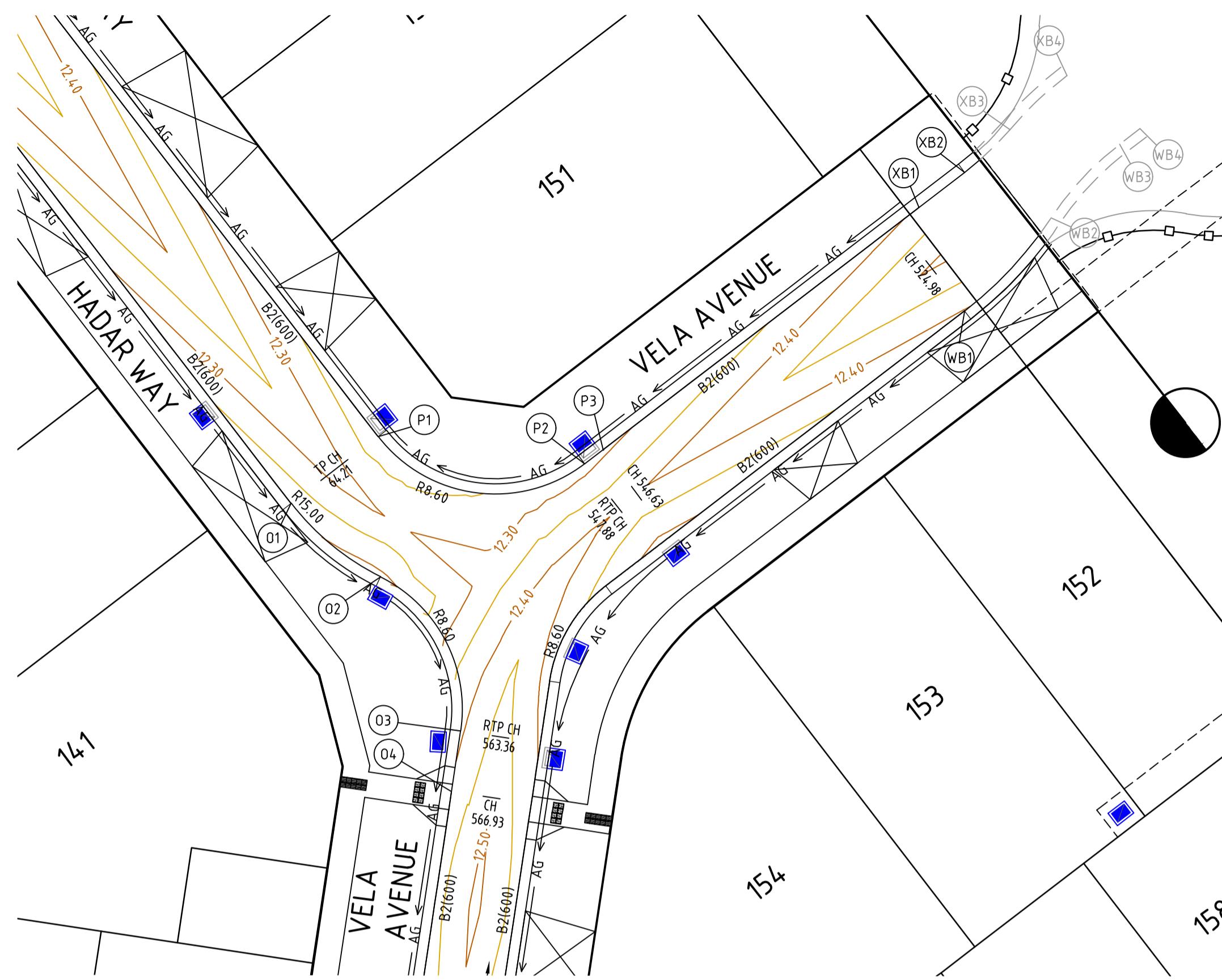
SIG GROUP

Designed  
D.RAWAT  
Authorised  
T.ABBOTT

Checked  
B.WARNAKULASURIYA  
Date  
JULY 2025

ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
INTERSECTION DETAILS - SHEET 5  
CASEY CITY COUNCIL  
SIG GROUP

PRELIMINARY 322764-001 CR504 B



MGA 2020  
ZONE 55

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT 0

ALIGNMENT 0

POINT NO	EASTING	NORTHING	RL
01	358075.203	5779114.795	12.213
1/4	358076.316	5779113.505	12.205
1/2	358077.567	5779112.350	12.196
3/4	358078.942	5779111.344	12.188
02	358080.422	5779110.504	12.189
1/4	358082.617	5779108.938	12.227
1/2	358084.221	5779106.773	12.305
3/4	358085.076	5779104.214	12.366
03	358085.099	5779101.523	12.393
04	358084.570	5779098.000	12.407

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
01-02	15.000	6.817	6.759	0.386	0.097
02-03	8.600	10.823	10.123	1.647	0.422

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL

CHAINAGE

ALIGNMENT XB

ALIGNMENT XB

POINT NO	EASTING	NORTHING	RL
XB1	358111.829	5779132.068	12.406
XB2	358114.485	5779134.106	12.438
1/2	358115.871	5779135.287	12.456
XB3	358117.127	5779136.604	12.473
1/2	358118.711	5779138.263	12.485
XB4	358120.456	5779139.751	12.496

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
XB2-XB3	17.700	3.643	3.636	0.094	-0.023
XB3-XB4	22.300	4.589	4.581	0.118	0.030

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 11.0

DESIGN LEVEL

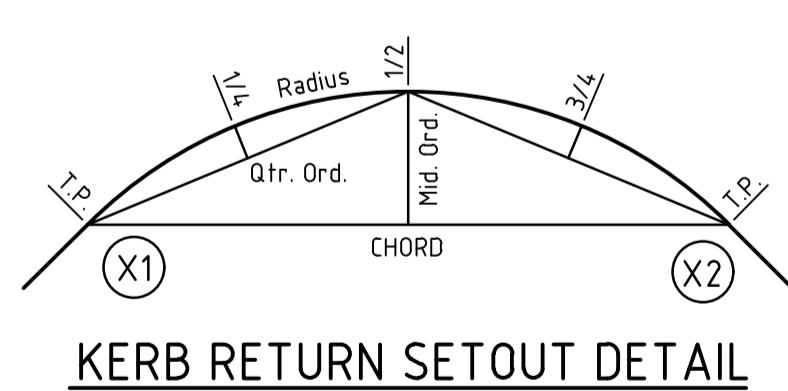
CHAINAGE

ALIGNMENT WB

ALIGNMENT WB

POINT NO	EASTING	NORTHING	RL
WB1	358114.481	5779126.026	12.398
1/4	358115.908	5779127.218	12.409
1/2	358117.231	5779128.525	12.420
3/4	358118.441	5779129.938	12.432
WB2	358119.529	5779131.446	12.443
1/4	358120.391	5779132.642	12.452
1/2	358121.350	5779133.763	12.461
3/4	358122.399	5779134.799	12.470
WB3	358123.530	5779135.745	12.479
WB4	358124.720	5779136.657	12.486

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
WB1-WB2	22.300	7.441	7.407	0.310	-0.078
WB2-WB3	17.700	5.900	5.873	0.245	0.061



KERB RETURN SETOUT DETAIL

DETAIL PLAN

H 1:250

SCALE @ A1

0 2.5 5 7.5 10 12.5

0 2.5 5 7.5 10 12.5

LIP PROFILE

H 1:25

SCALE @ A1

0 0.25 0.50 0.75 1.00 1.25

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Regulated ISO 14001:2015

System Certified

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L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
VICTORIA 3000 AUSTRALIA T 61 3 9993 7888  
spiire.com.au ABN 55 050 029 635

**SIG GROUP**

Designed  
D.RAWAT

Checked  
B.WARNAKULASURIYA

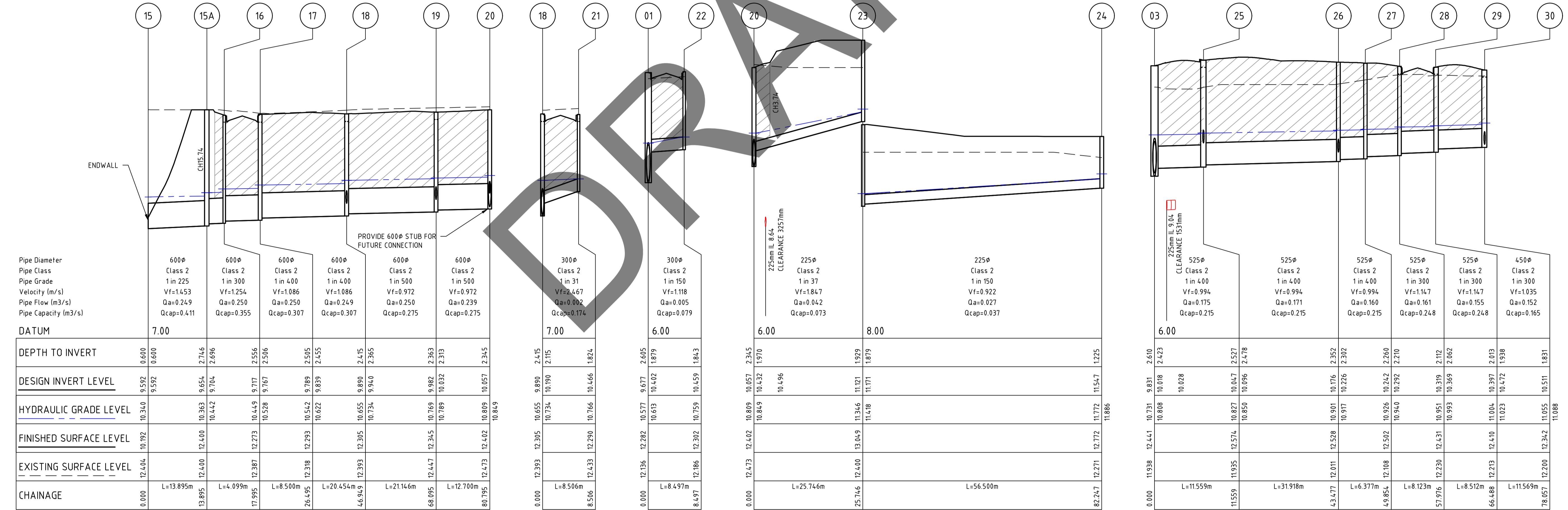
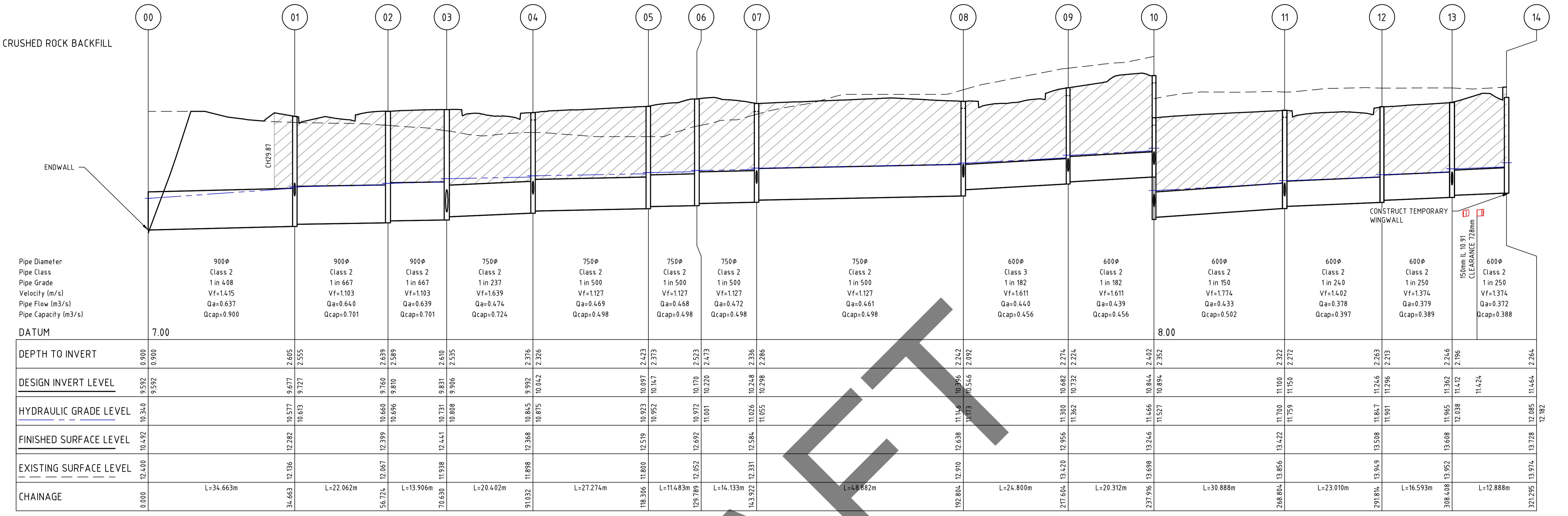
Authorised  
T.ABBOTT

Date  
JULY 2025

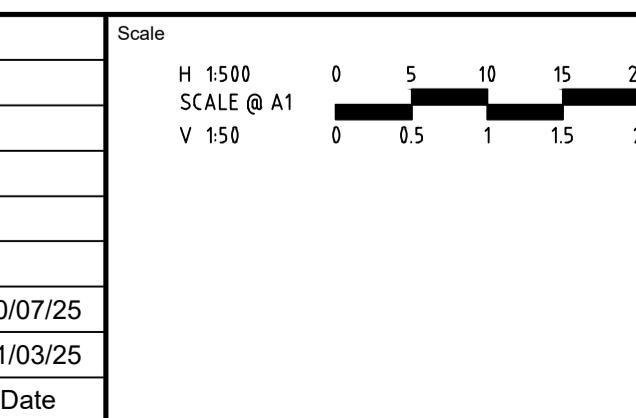
**ALMA ESTATE STAGE 1 ROAD & DRAINAGE INTERSECTION DETAILS - SHEET 6 CASEY CITY COUNCIL SIG GROUP**

**PRELIMINARY** 322764-001CR505 **B**

B	ISSUED TO COUNCIL	T.A	30/07/25
A	ISSUED FOR TENDER	T.A	21/03/25
Rev	Amendments	Approved	Date



B ISSUED TO COUNCIL		T.A 30/07/25	
A ISSUED FOR TENDER		T.A 21/03/25	
Rev	Amendments	Approved	Date



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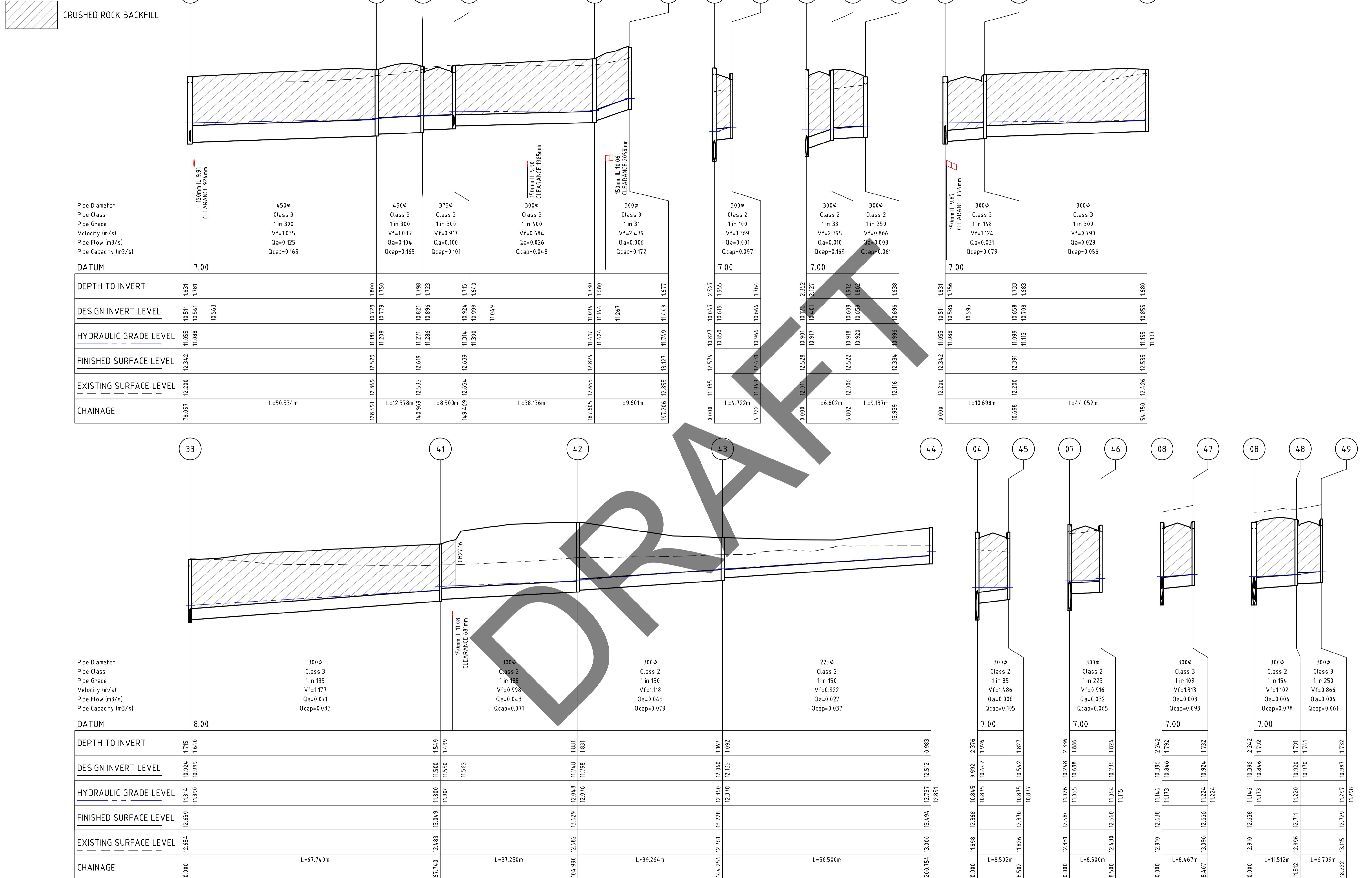
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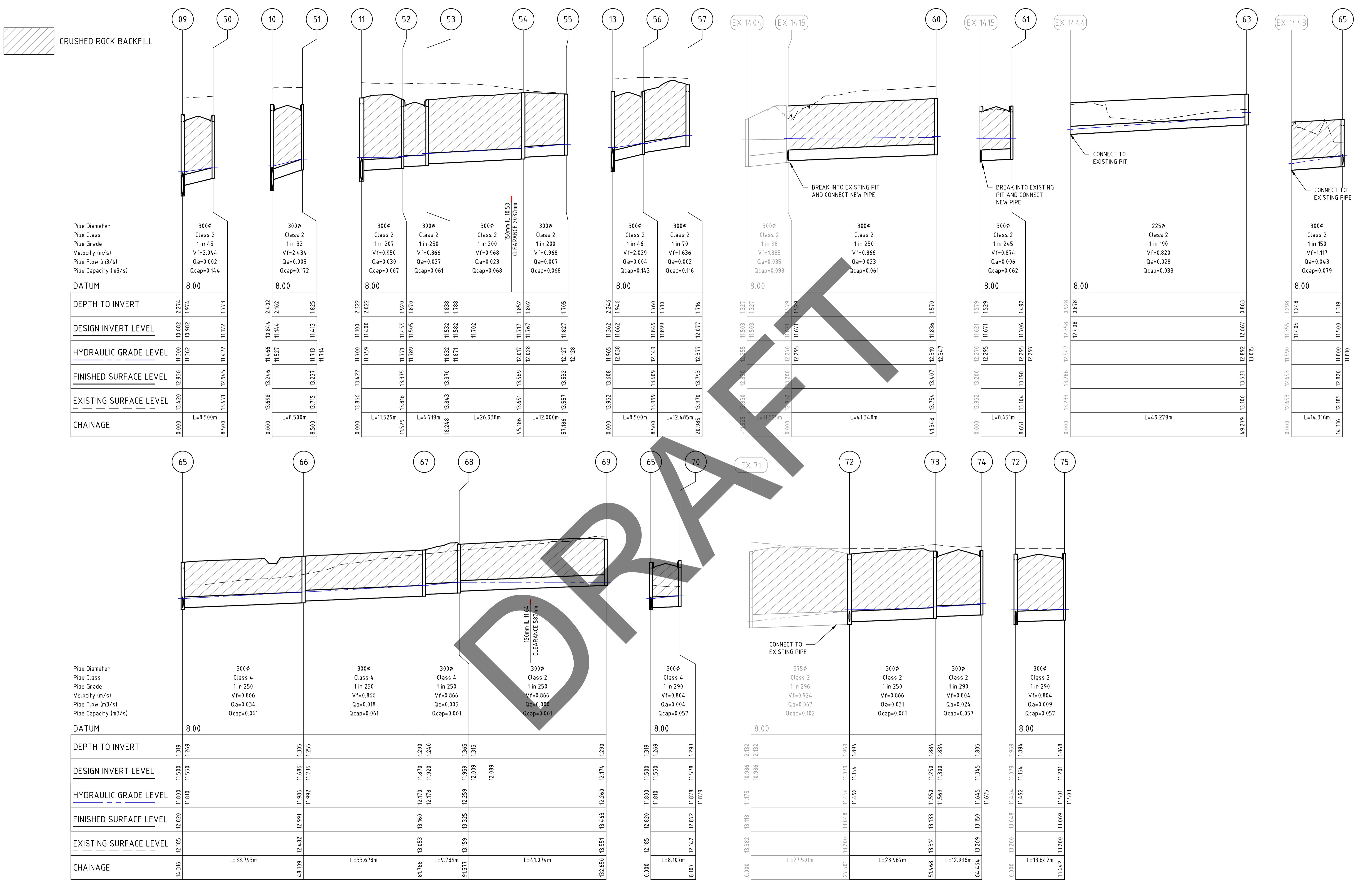
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spiire.com.au ABN 55 050 029 635

SIG GROUP

Designed  
D.RAWAT  
Authorised  
T.ABBOTT  
Checked  
B.WARNAKULASURIYA  
Date  
JULY 25

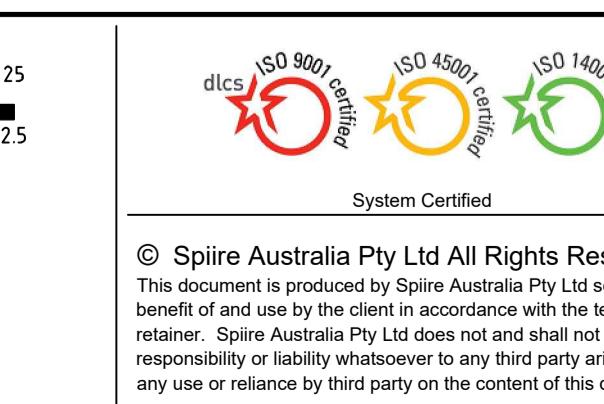
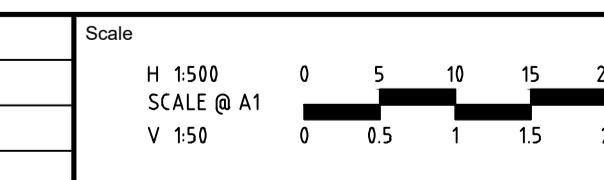
ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 1  
CASEY CITY COUNCIL  
SIG GROUP  
PRELIMINARY  
322764-001 CR600 B





file name 322764-001CR600.dwg layout name CR602 plotted by Deepak Rawat

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B	ISSUED TO COUNCIL	T.A	30
A	ISSUED FOR TENDER	T.A	2
Rev	Amendments	Approved	



The logo for Spiire features the word "spiire" in a bold, lowercase, sans-serif font. The letters are a dark grey color. Above the letter "i", there are two red circular dots of different sizes, with the larger one positioned slightly to the left of the smaller one.



Checked  
B.WARNAKULASURIYA  
Date  
JULY 25

# **ALMA ESTATE STAGE 1 STAGE 1 ROAD & DRAINAGE DRAINAGE LONG SECTIONS - SHEET 3 CASEY CITY COUNCIL**

**PRELIMINARY** 322764-001CR602

## DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
00	ENDWALL			900	9.592					TEMPORARY OUTLET PIPE TO RETARDING BASIN
01	DOUBLE GRATED SIDE ENTRY PIT	1500	900	900	9.727	900	9.677	12.282	2.605	REFER TO EDCM STD FIG 602 & 607
02	JUNCTION PIT	900	1200	900	9.810	900	9.760	12.399	2.639	REFER TO EDCM STD FIG 607
03	JUNCTION PIT	1200	1200	750	9.906	900	9.831	12.441	2.610	REFER TO EDCM STD FIG 607
04	GRATED SIDE ENTRY PIT	900	1050	750	10.042	750	9.992	12.368	2.376	REFER TO EDCM STD FIG 601 & 607
05	JUNCTION PIT	900	1050	750	10.147	750	10.097	12.519	2.423	REFER TO EDCM STD FIG 607
06	JUNCTION PIT	900	1050	750	10.220	750	10.170	12.692	2.523	REFER TO EDCM STD FIG 607
07	GRATED SIDE ENTRY PIT	900	1050	750	10.298	750	10.248	12.584	2.336	REFER TO EDCM STD FIG 601 & 607
08	GRATED SIDE ENTRY PIT	900	1050	600	10.546	750	10.396	12.638	2.242	REFER TO EDCM STD FIG 601 & 607
09	GRATED SIDE ENTRY PIT	900	900	600	10.732	600	10.682	12.956	2.274	REFER TO EDCM STD FIG 601 & 607
10	GRATED SIDE ENTRY PIT	900	900	600	10.894	600	10.844	13.246	2.402	REFER TO EDCM STD FIG 601 & 607
11	GRATED SIDE ENTRY PIT	900	1050	600	11.150	600	11.100	13.422	2.322	REFER TO EDCM STD FIG 601 & 607
12	JUNCTION PIT	900	900	600	11.296	600	11.246	13.508	2.263	REFER TO EDCM STD FIG 607
13	JUNCTION PIT	900	1200	600	11.412	600	11.362	13.608	2.246	REFER TO EDCM STD FIG 607
14	WINGWALL	1050	900			600	11.464	13.728	2.264	CONSTRUCT TEMPORARY WINGWALL
15	ENDWALL	0	0	600	9.592		10.192	0.600		TEMPORARY OUTLET PIPE TO RETARDING BASIN
15A	JUNCTION PIT	900	1050	600	9.704	600	9.654	12.400	2.746	REFER TO EDCM STD FIG 607
16	DOUBLE GRATED SIDE ENTRY PIT	600	1200	600	9.767	600	9.717	12.273	2.556	REFER TO EDCM STD FIG 602 & 607
17	DOUBLE GRATED SIDE ENTRY PIT	900	900	600	9.839	600	9.789	12.293	2.505	REFER TO EDCM STD FIG 602 & 607
18	GRATED SIDE ENTRY PIT	900	900	600	9.940	600	9.890	12.305	2.415	REFER TO EDCM STD FIG 601 & 607
19	GRATED SIDE ENTRY PIT	900	900	600	10.032	600	9.982	12.345	2.363	REFER TO EDCM STD FIG 601 & 607
20	JUNCTION PIT	900	900			600	10.057	12.402	2.345	REFER TO EDCM STD FIG 607
21	GRATED SIDE ENTRY PIT	600	900			300	10.466	12.290	1.824	REFER TO EDCM STD FIG 601 & 607
22	DOUBLE GRATED SIDE ENTRY PIT	600	900			300	10.459	12.302	1.843	REFER TO EDCM STD FIG 602 & 607
23	JUNCTION PIT	600	900	225	11.171	225	11.121	13.049	1.929	
24	JUNCTION PIT	600	900			225	11.547	12.772	1.225	
25	GRATED SIDE ENTRY PIT	900	1200	525	10.096	525	10.047	12.574	2.527	REFER TO EDCM STD FIG 601 & 607
26	JUNCTION PIT	900	900	525	10.226	525	10.176	12.528	2.352	REFER TO EDCM STD FIG 607
27	JUNCTION PIT	900	900	525	10.292	525	10.242	12.502	2.260	REFER TO EDCM STD FIG 607
28	GRATED SIDE ENTRY PIT	750	900	525	10.369	525	10.319	12.431	2.112	REFER TO EDCM STD FIG 601 & 607
29	GRATED SIDE ENTRY PIT	900	1050	450	10.472	525	10.397	12.410	2.013	REFER TO EDCM STD FIG 601 & 607
30	GRATED SIDE ENTRY PIT	900	1050	450	10.561	450	10.511	12.342	1.831	REFER TO EDCM STD FIG 601 & 607
31	GRATED SIDE ENTRY PIT	750	900	450	10.779	450	10.729	12.529	1.800	REFER TO EDCM STD FIG 601 & 607
32	GRATED SIDE ENTRY PIT	600	1050	375	10.896	450	10.821	12.619	1.798	REFER TO EDCM STD FIG 601 & 607
33	GRATED SIDE ENTRY PIT	600	900	300	10.999	375	10.924	12.639	1.715	REFER TO EDCM STD FIG 601 & 605
				300	10.999					

34	JUNCTION PIT	600	900	300	11.144	300	11.094	12.824	1.730	REFER TO EDCM STD FIG 605
35	GRATED JUNCTION PIT	600	900			300	11.449	13.127	1.677	REFER TO EDCM STD FIG 605, CONSTRUCT WITH HEAVY DUTY BOLT DOWN V GRATE (CIVIL CAST VG660 OR EQUIVALENT)
36	GRATED SIDE ENTRY PIT	600	900	300	10.659	300	10.609	12.431	1.764	REFER TO EDCM STD FIG 605
37	JUNCTION PIT	600	900	300		300	10.696	12.522	1.912	REFER TO EDCM STD FIG 605
38	GRATED SIDE ENTRY PIT	600	900	300	10.708	300	10.658	12.334	1.638	REFER TO EDCM STD FIG 601 & 605
39	GRATED SIDE ENTRY PIT	600	900	300	10.855	300	12.535	1.680		REFER TO EDCM STD FIG 601 & 605
40	GRATED SIDE ENTRY PIT	600	900			300	10.542	12.370	1.827	REFER TO EDCM STD FIG 601 & 605
41	JUNCTION PIT	600	900	300	11.550	300	11.500	13.049	1.549	REFER TO EDCM STD FIG 605
42	JUNCTION PIT	600	900	300	11.980	300	11.798	13.629	1.881	REFER TO EDCM STD FIG 605
43	JUNCTION PIT	600	900	225	12.186	300	12.060	13.228	1.167	REFER TO EDCM STD FIG 605
44	JUNCTION PIT	600	900			225	12.512	13.494	0.983	REFER TO EDCM STD FIG 605
45	GRATED SIDE ENTRY PIT	600	900			300	10.736	12.560	1.824	REFER TO EDCM STD FIG 601 & 605
46	GRATED SIDE ENTRY PIT	600	900			300	10.924	12.656	1.732	REFER TO EDCM STD FIG 601 & 605
47	GRATED SIDE ENTRY PIT	600	900			300	10.970	10.920	1.791	REFER TO EDCM STD FIG 601 & 605
48	GRATED SIDE ENTRY PIT	600	900	300	10.970	300	12.711	1.791		REFER TO EDCM STD FIG 601 & 605
49	GRATED SIDE ENTRY PIT	600	900			300	10.997	12.729	1.732	REFER TO EDCM STD FIG 601 & 605
50	GRATED SIDE ENTRY PIT	600	900			300	11.172	12.945	1.773	REFER TO EDCM STD FIG 601 & 605
51	GRATED SIDE ENTRY PIT	600	900			300	11.413	13.237	1.825	REFER TO EDCM STD FIG 601 & 605
52	GRATED SIDE ENTRY PIT	600	900	300	11.505	300	11.455	13.375	1.920	REFER TO EDCM STD FIG 601 & 605
53	GRATED SIDE ENTRY PIT	600	900	300	11.582	300	11.532	13.370	1.838	REFER TO EDCM STD FIG 601 & 605
54	JUNCTION PIT	600	900	300	11.767	300	11.717	13.569	1.852	REFER TO EDCM STD FIG 605
55	JUNCTION PIT	600	900			300	11.827	13.532	1.705	REFER TO EDCM STD FIG 605
56	JUNCTION PIT	600	900	300	11.899	300	11.849	13.609	1.760	REFER TO EDCM STD FIG 605
57	GRATED SIDE ENTRY PIT	600	900			300	12.077	13.793	1.716	REFER TO EDCM STD FIG 601 & 605
Ex 1415	GRATED SIDE ENTRY PIT	600	900	300	11.671	300	11.621	13.200	1.579	BREAK INTO EXISTING PIT AND CONNECT NEW PIPE
60	JUNCTION PIT	600	900			300	11.836	13.407	1.570	REFER TO EDCM STD FIG 605
61	GRATED SIDE ENTRY PIT									

## DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)		
		TYPE A*	TYPE B*	TYPE C*
ASPHALT (WEARING)	SIZE 10mm TYPE N ASPHALT (C320)	30	30	
	SIZE 10mm TYPE L ASPHALT (C320)	30		
	SIZE 14mm TYPE V ASPHALT (C320)			
ASPHALT (INTERMEDIATE)	SIZE 20mm TYPE SI ASPHALT (C320)			
ASPHALT (BASE)	SIZE 10mm TYPE N ASPHALT (C320)	30	30	30
	SIZE 20mm TYPE SF ASPHALT (C320)			
PRIME	PRIME COAT & 10mm SAMI TREATMENT	10	10	10
BASE COURSE	SIZE 20mm VICROADS CLASS 2 FINE CRUSHED ROCK	130	130	130
SUBBASE	SIZE 20mm VICROADS CLASS 3 FINE CRUSHED ROCK	100	100	100
SUBGRADE STABILISATION	MIN. 350mm LIME & CEMENT STABILISED SUBGRADE (CBR $\geq$ 20)			
STABILISED SUBGRADE	EXISTING SUBGRADE AS FOUND (CBR $\leq$ 2)	350	350	350
SUBGRADE	NATURAL SUBGRADE OR CONTROLLED FILL (CBR $\geq$ 3.0%)	YES	YES	YES
	TOTAL PAVEMENT DEPTH	650	650	650

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES  
OVER STABILISED SUBGRADE CBR  $\geq$  15.0

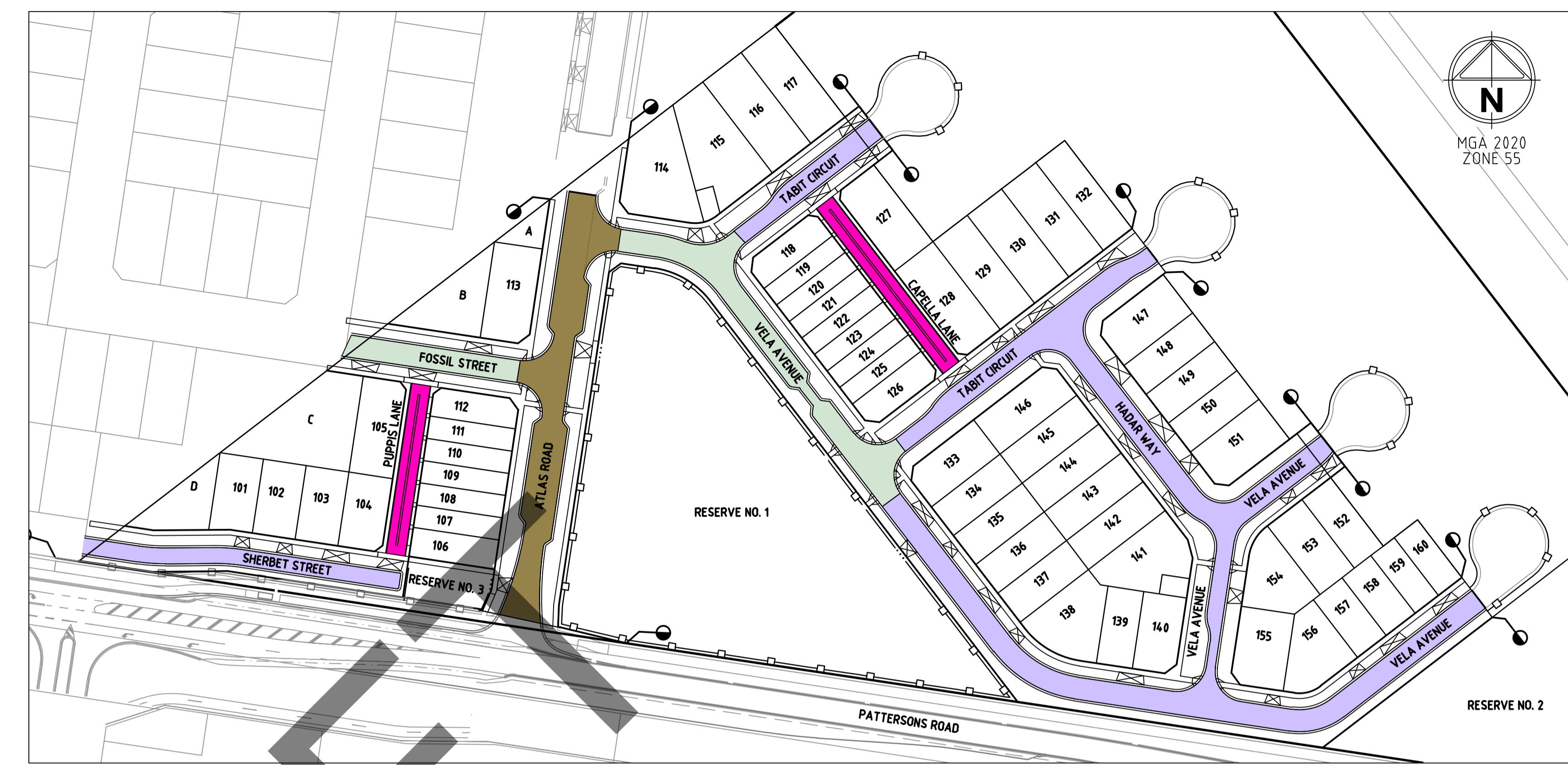
ROAD NAME	ROAD TYPE	PAVEMENT TYPE
SHERBET STREET	FRONTAGE ROAD (12m)	A
FOSSIL STREET	ACCESS STREET LEVEL 1 (16m)	B
ATLAS ROAD	ACCESS STREET LEVEL 2 (20m)	C
TABIT ROAD	ACCESS STREET LEVEL 1 (16m)	A
VELA ROAD	ACCESS STREET LEVEL 1 (14.5m)	A&B
RIGEL ROAD	ACCESS STREET LEVEL 1 (16m)	A
HADAR ROAD	ACCESS STREET LEVEL 1 (16m)	A
ALTAR ROAD	ACCESS STREET LEVEL 1 (16m)	A
PUPPIES LANE	CONCRETE LANeway (8m)	RIGID E
CAPELLA LANE	CONCRETE LANeway (8m)	RIGID E

## RIGID PAVEMENT LEGEND

PROPOSED DRIVEWAY, PROPOSED INDUSTRIAL DRIVEWAY

### CONCRETE PAVEMENT NOTES:

1. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
2. ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
3. CONCRETE TO BE THOROUGHLY COMPAKTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
4. PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
5. CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
6. SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
7. ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED.
8. ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



## RIGID PAVEMENT DETAILS

PAVEMENT LAYER	DESCRIPTION	TYPE E*
CONCRETE BASE	PLAIN CONCRETE PAVEMENT (32 MPa AT 28 DAYS; FLEXURAL STRENGTH 4.5MPa)	180
PRIME	WAX EMULSION AND SIZE 7mm INITIAL SEAL (RESIDUAL BINDER RATE $\geq$ 1.0L/M <sup>2</sup> )	YES
SUBBASE	SIZE 20mm VICROADS CLASS 3 FINE CRUSHED ROCK	100
SUBGRADE STABILISATION	STABILISED SUBGRADE PER SECTION 7.4.2.1 OF GEOTECH REPORT	350
SUBGRADE	NATURAL SUBGRADE OR CONTROLLED FILL (CBR $\geq$ 3.0%)	YES
	TOTAL PAVEMENT DEPTH	630

## PAVEMENT DETAILS

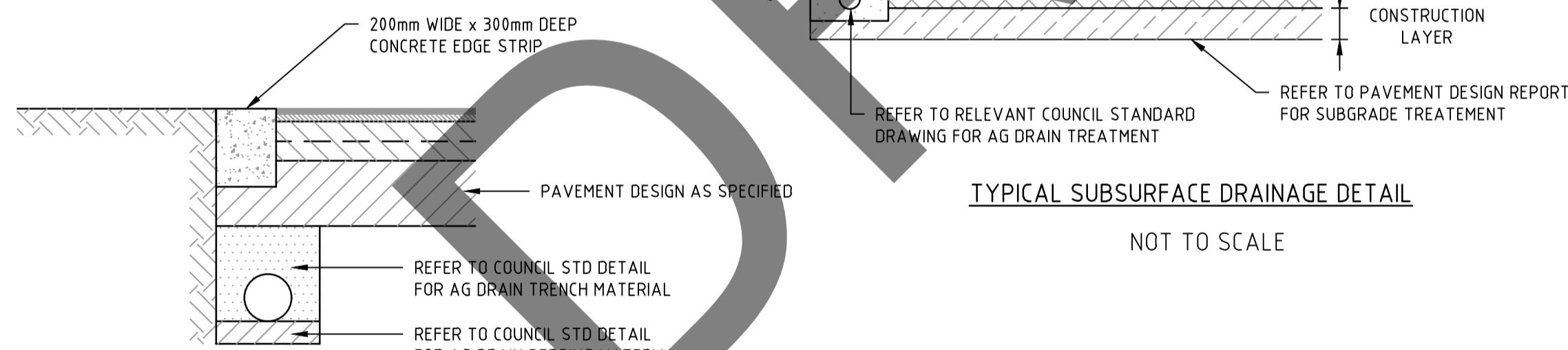
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY **GROUND SCIENCE** WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIRE IS NOT RESPONSIBLE FOR THE WORK OF **GROUND SCIENCE**.

THE DESIGN HAS BEEN EXTRACTED FROM THE **GEOTECH REPORT NAME** REPORT ON "GEOTECHNICAL INVESTIGATION FOR **ALMA ESTATE**". THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

SPIRE 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 **GROUND SCIENCE** AND COPIED TO SPIRE.

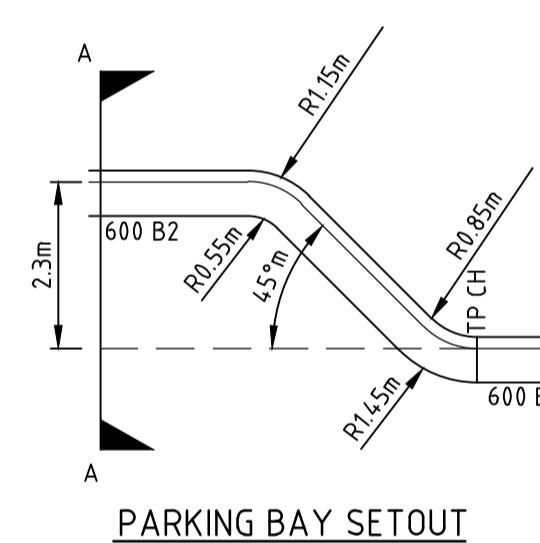


TYPICAL SUBSURFACE DRAINAGE DETAIL

NOT TO SCALE

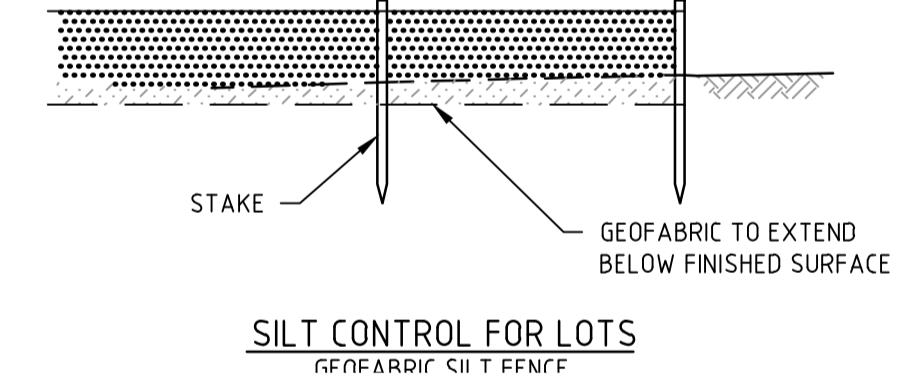
## PAVEMENT PLAN

H 1:1000 SCALE @ A1 0 10 20 30 40 50



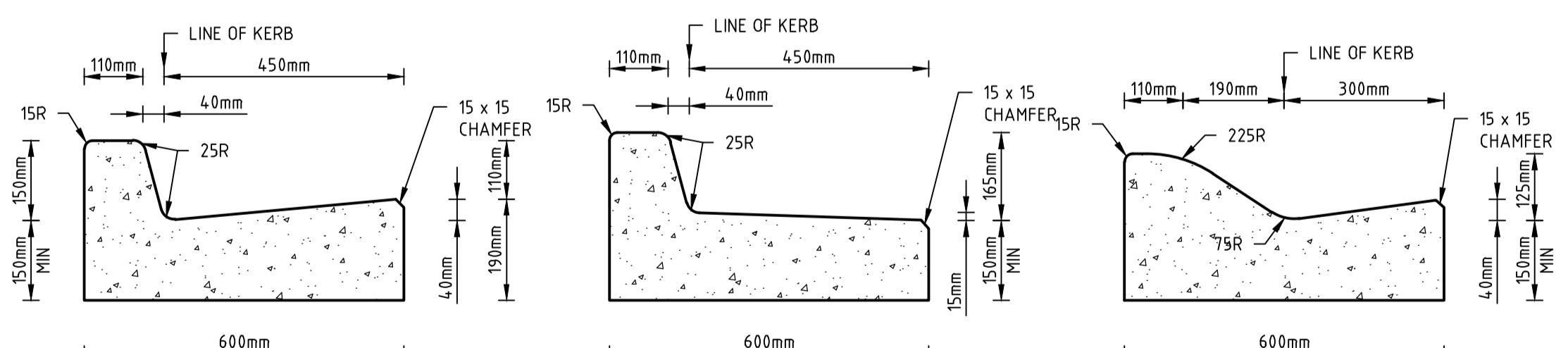
PARKING BAY SETOUT

NOT TO SCALE



SILT CONTROL FOR LOTS

NOT TO SCALE

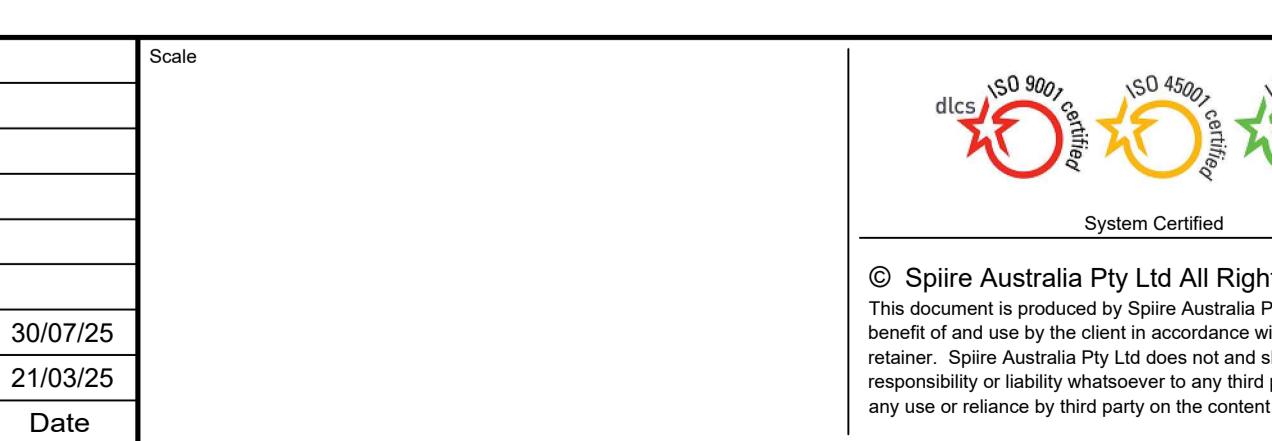


## STANDARD KERB PROFILES

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

H 1:100 SCALE @ A1 0 1 2 3 4 5

ISSUED TO COUNCIL		T.A	30/07/25
ISSUED FOR TENDER		T.A	21/03/25
Rev	Amendments	Approved	Date



**spiire**

L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
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spiire.com.au ABN 55 050 029 635

**SIG GROUP**

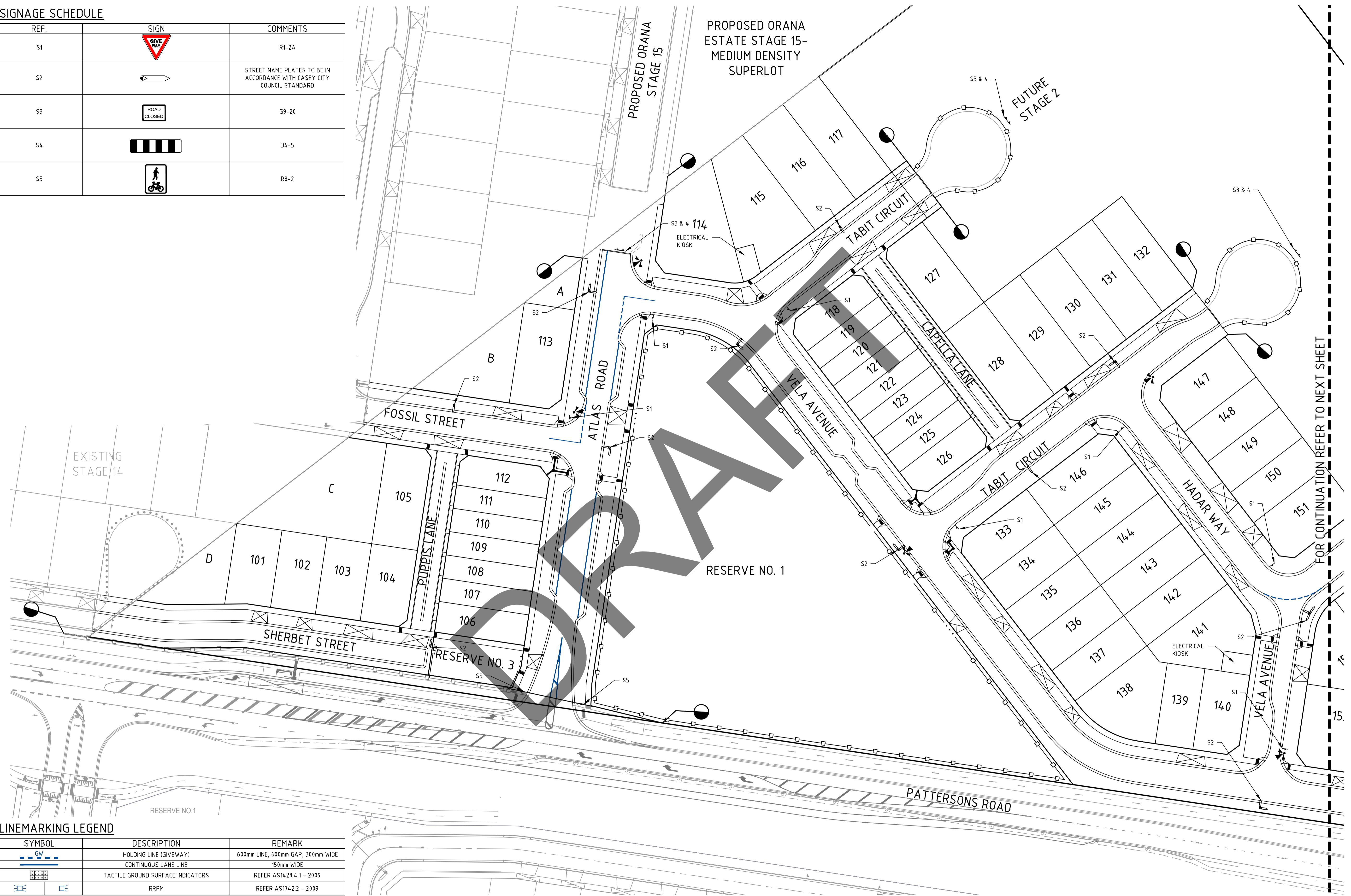
Designed  
D.RAWAT  
Authorised  
T.ABBOTT

Checked  
B.WARNAKULASURIYA  
Date  
JULY 25

**ALMA ESTATE STAGE 1 ROAD & DRAINAGE PAVEMENT & TYPICAL DETAILS**  
CASEY CITY COUNCIL SIG GROUP  
**PRELIMINARY** 322764-001CR700 B

**SIGNAGE SCHEDULE**

REF.	SIGN	COMMENTS
S1		R1-2A
S2		STREET NAME PLATES TO BE IN ACCORDANCE WITH CASEY CITY COUNCIL STANDARD
S3		G9-20
S4		D4-5
S5		R8-2

  
 N  
 MGA 2020  
 ZONE 55


		Scale					
B	ISSUED TO COUNCIL	T.A	30/07/25				
A	ISSUED FOR TENDER	T.A	21/03/25				
Rev	Amendments	Approved	Date				

 H 1:500  
 SCALE @ A1 0 5 10 15 20 25

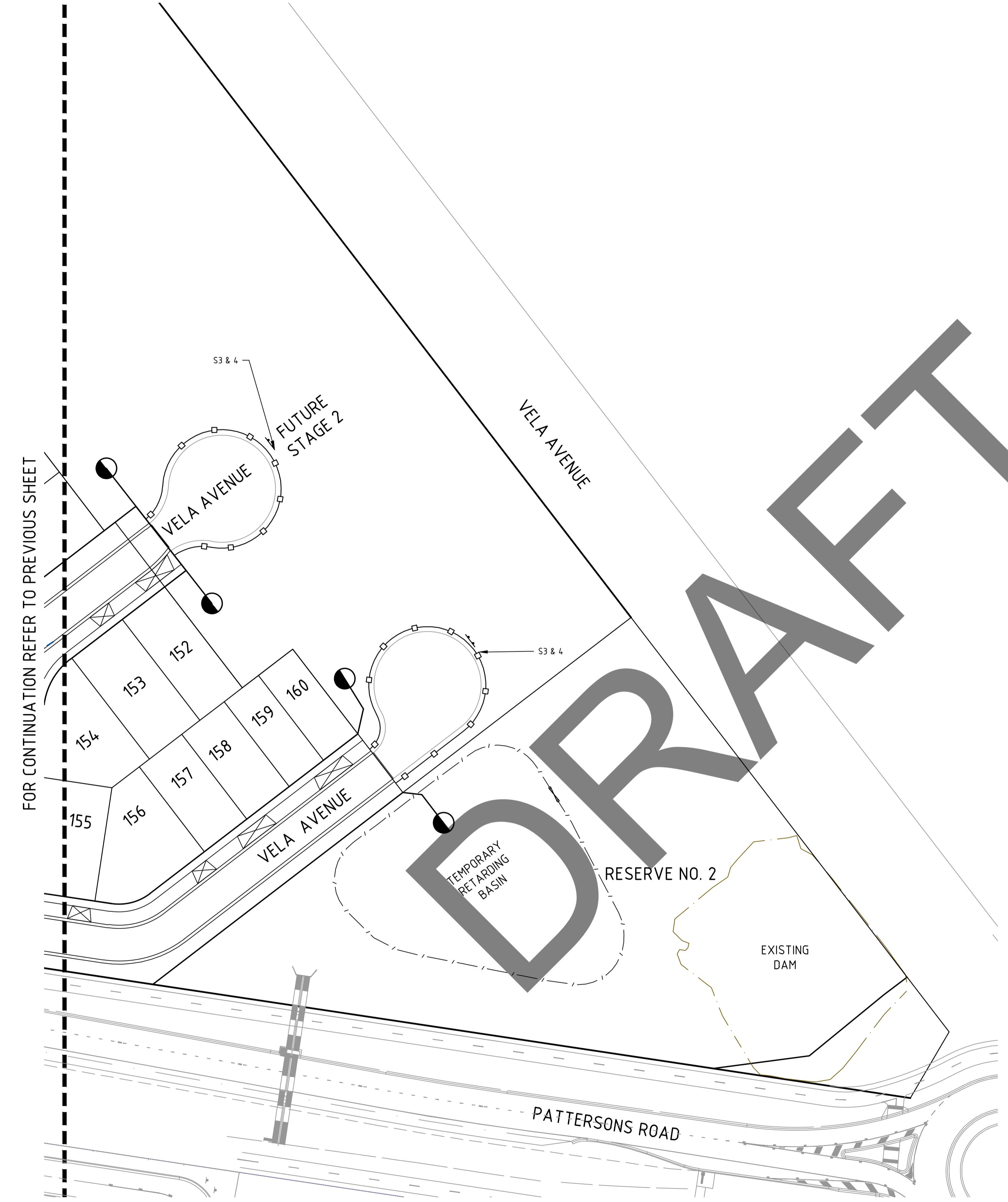

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 VICTORIA 8007 AUSTRALIA T 61 3 9993 7888  
 spire.com.au ABN 55 050 029 635


Designed  
 D.RAWAT  
 Checked  
 B.WARNAKULASURIYA  
 Authorised  
 T.ABBOTT  
 Date  
 JULY 25

**ALMA ESTATE STAGE 1**  
**ROAD & DRAINAGE SIGNAGE & LINEMARKING - SHEET 1**  
 CASEY CITY COUNCIL  
 SIG GROUP

**PRELIMINARY** 322764-001 CR800 **B**



N  
MGA 2020  
ZONE 55

SIGNAGE SCHEDULE

REF.	SIGN	COMMENTS
S1		R1-2A
S2		STREET NAME PLATES TO BE IN ACCORDANCE WITH CASEY CITY COUNCIL STANDARD
S3		G9-20
S4		D4-5

LINEMARKING LEGEND

SYMBOL	DESCRIPTION	REMARK
	HOLDING LINE (GIVEWAY)	600mm LINE, 600mm GAP, 300mm WIDE
	CONTINUOUS LANE LINE	150mm WIDE
	TACTILE GROUND SURFACE INDICATORS	REFER AS1428.4.1 - 2009
	RRPM	REFER AS1742.2 - 2009

		Scale					
B	ISSUED TO COUNCIL	T.A	0	5	10	15	20
A	ISSUED FOR TENDER	T.A	30/07/25	ISO 9001:2015 Certified	ISO 45001:2018 Certified	ISO 14001:2015 Certified	System Certified
Rev	Amendments	Approved	21/03/25				

dc/s  
ISO 9001:2015  
ISO 45001:2018  
ISO 14001:2015  
System Certified

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VICTORIA 3007 AUSTRALIA T 613 9993 7888  
spire.com.au ABN 55 050 029 635

SIG GROUP

Designed  
D.RAWAT  
Authorised  
T.ABBOTT

Checked  
B.WARNAKULASURIYA  
Date  
JULY 25

ALMA ESTATE  
STAGE 1  
ROAD & DRAINAGE  
SIGNAGE & LINEMARKING - SHEET 2  
CASEY CITY COUNCIL  
SIG GROUP

PRELIMINARY  
322764-001 CR801 B