

# OFFICER CENTRAL STAGE 1 YOURLAND PTY LTD

## GENERAL NOTES:

### SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) 94, 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  $\pm 0.05\text{m}$ .
  - 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 HIS REPRESENTATIVE.
  - ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB
- EARTHWORKS**
- 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, TRENCHES, 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 1 IN 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 150mm 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, DESLUGGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED 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 COUNCIL'S PERMISSION.

### SERVICES

- 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

LOCATION OF THE CONDUITS TO BE MARKED ON THE FACE OF KERB ON EACH SIDE OF THE ROAD WITH A 50mm HIGH LETTER (G FOR GAS, W FOR WATER, E FOR ELECTRICITY AND T FOR TELECOMMUNICATIONS).

- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.

### STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.) UNLESS OTHERWISE SHOWN

- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 10m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPES ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.

### PAVEMENT

- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.

### SIGNAGE AND LINEMARKING

- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.

### ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.

### MISCELLANEOUS

- THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
- PROVIDE REFLECTIVE STREET NUMBER MARKERS ON THE KERB IN FRONT OF EACH LOT TO THE SATISFACTION OF COUNCIL.
- UPON COMPLETION OF THE CIVIL WORKS, THE CONTRACTOR SHALL PROVIDE AS CONSTRUCTED PLANS IN AUTOCAD, D-SPEC AND R-SPEC DIGITAL FORMAT TO COUNCIL'S REQUIREMENTS AND TO THE SATISFACTION OF ALL PARTIES.
- HOUSE DRAIN LOCATIONS ARE TO BE STAMPED ON THE KERB FACE IN ACCORDANCE WITH VPA EDM303



## WARNING

**BWARE 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.



## LOCALITY PLAN

H 14000  
SCALE @ A1

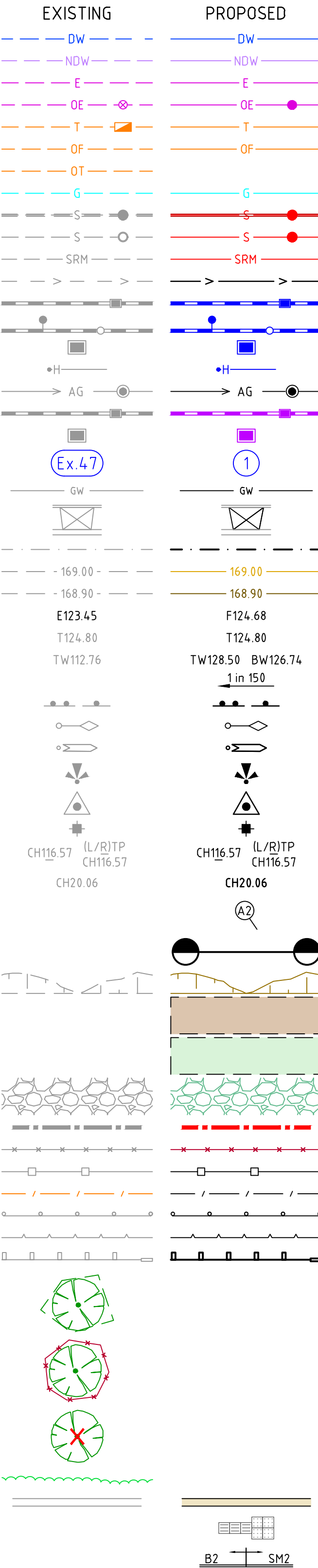
## DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	D
CR200	ROAD LAYOUT PLANS - FACE PLAN	2	D
CR201	ROAD LAYOUT PLANS - SERVICES PLAN	3	D
CR202	ROAD LAYOUT PLANS - EARTHWORKS PLAN	4	D
CR300	ROAD LONG SECTIONS - SHEET 1	5	C
CR301	ROAD LONG SECTIONS - SHEET 2	6	D
CR400	ROAD CROSS SECTIONS - SHEET 1	7	D
CR401	ROAD CROSS SECTIONS - SHEET 2	8	D
CR402	ROAD CROSS SECTIONS - SHEET 3	9	D
CR403	ROAD CROSS SECTIONS - SHEET 4	10	D
CR404	ROAD CROSS SECTIONS - SHEET 5	11	D
CR405	ROAD CROSS SECTIONS - SHEET 6	12	C
CR406	ROAD CROSS SECTIONS - SHEET 7	13	D
CR407	ROAD CROSS SECTIONS - TYPICAL SECTIONS	14	C
CR500	INTERSECTION DETAILS - SHEET 1	15	D
CR501	INTERSECTION DETAILS - SHEET 2	16	D
CR502	INTERSECTION DETAILS - SHEET 3	17	C
CR600	DRAINAGE LONG SECTIONS - SHEET 1	18	D
CR601	DRAINAGE LONG SECTIONS - SHEET 2	19	D
CR602	DRAINAGE LONG SECTIONS - SHEET 3	20	C
CR603	DRAINAGE LONG SECTIONS - SHEET 4	21	C
CR604	DRAINAGE LONG SECTIONS - SHEET 5	22	C
CR605	DRAINAGE LONG SECTIONS - PIT SCHEDULE	23	B
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	24	C
CR701	PAVEMENT AND TYPICAL DETAILS - RAISED PAVEMENT DETAILS	25	D
CR800	SIGNAGE AND LINEMARKING	26	C
CR900	RETAINING WALL DETAILS	27	A

## LEGEND

### DESCRIPTION

- WATER MAIN, VALVE AND HYDRANT  
WATER RECYCLED  
UNDERGROUND ELECTRICITY  
OVERHEAD ELECTRICITY & POLE  
TELECOMMUNICATIONS & SERVICE PIT  
OPTIC FIBRE  
OVERHEAD TELECOMMUNICATIONS  
GAS MAIN  
BRANCH SEWER & MAINTENANCE STRUCTURE  
SEWER & MAINTENANCE STRUCTURE  
SEWER RISING MAIN  
CENTRAL INVERT  
COUNCIL STORMWATER DRAIN AND PIT  
STORM WATER DRAINAGE PROPERTY INLETS  
COUNCIL STORM WATER PITS  
HOUSE DRAIN  
AG DRAIN AND FLUSHER  
MWC STORM WATER DRAIN & PIT  
MWC STORM WATER PITS  
STORM WATER DRAINAGE PIT NUMBER  
GAS & WATER CONDUITS  
CONCRETE VEHICLE CROSSING  
RIDGE / CHANGE OF GRADE LINE  
SURFACE CONTOUR MINOR  
SURFACE CONTOUR MAJOR  
SURFACE LEVEL  
BATTER LEVEL (TOP / TOE)  
RETAINING WALL LEVEL (TOP/BOTTOM)  
EARTHWORKS GRADE  
SIGN AND POLE  
LIGHT & POST (BY OTHERS)  
STREET SIGN  
PERMANENT SURVEY MARK  
TEMPORARY BENCH MARK  
BOLLARD  
ROAD CHAINAGES  
LOT CHAINAGES  
SETOUT POINT  
LIMIT OF WORKS  
BATTER  
EXCAVATION GREATER THAN 0.20m  
FILLING GREATER THAN 0.20m  
ROCK BEACHING  
RETAINING WALL  
FENCE - TREE PROTECTION  
FENCE - VEHICLE EXCLUSION  
FENCES  
GUARD RAIL  
TREE (& SURVEYED CANOPY) TO BE RETAINED  
TREE TO BE PROTECTED  
TREE TO BE REMOVED  
VEGETATION LINE  
FOOTPATH  
TACTILE GROUND SURFACE INDICATOR  
KERB TRANSITION



**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
GENERAL NOTES**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No **308176CR100**

Rev **D**

Designed  
**M. WRIGHT**  
Authorised  
**S. MURPHY**

Checked  
**B. IBBS**  
Date  
13/07/21

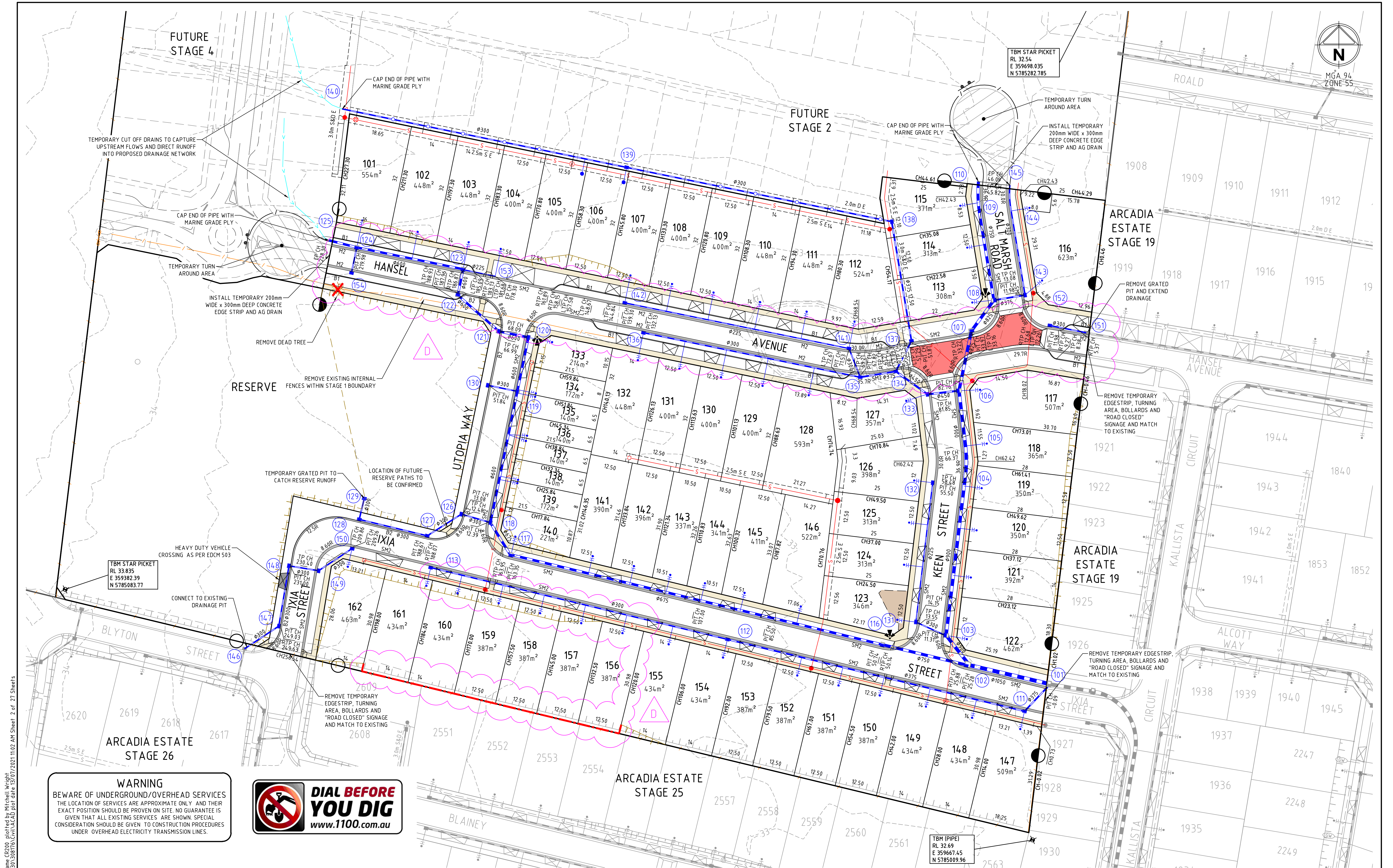
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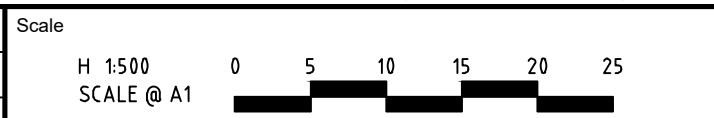


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Rev	Amendments	Approved	Date
D	AMENDED LOT 156-162 DRAINAGE, HANSEL AVE PAVEMENT, ADDED RETAINING WALL	S.M	13/07/21
C	AMENDED PARKING BAY AND ROAD NAMES, ADDED FUTURE ROUNDABOUT	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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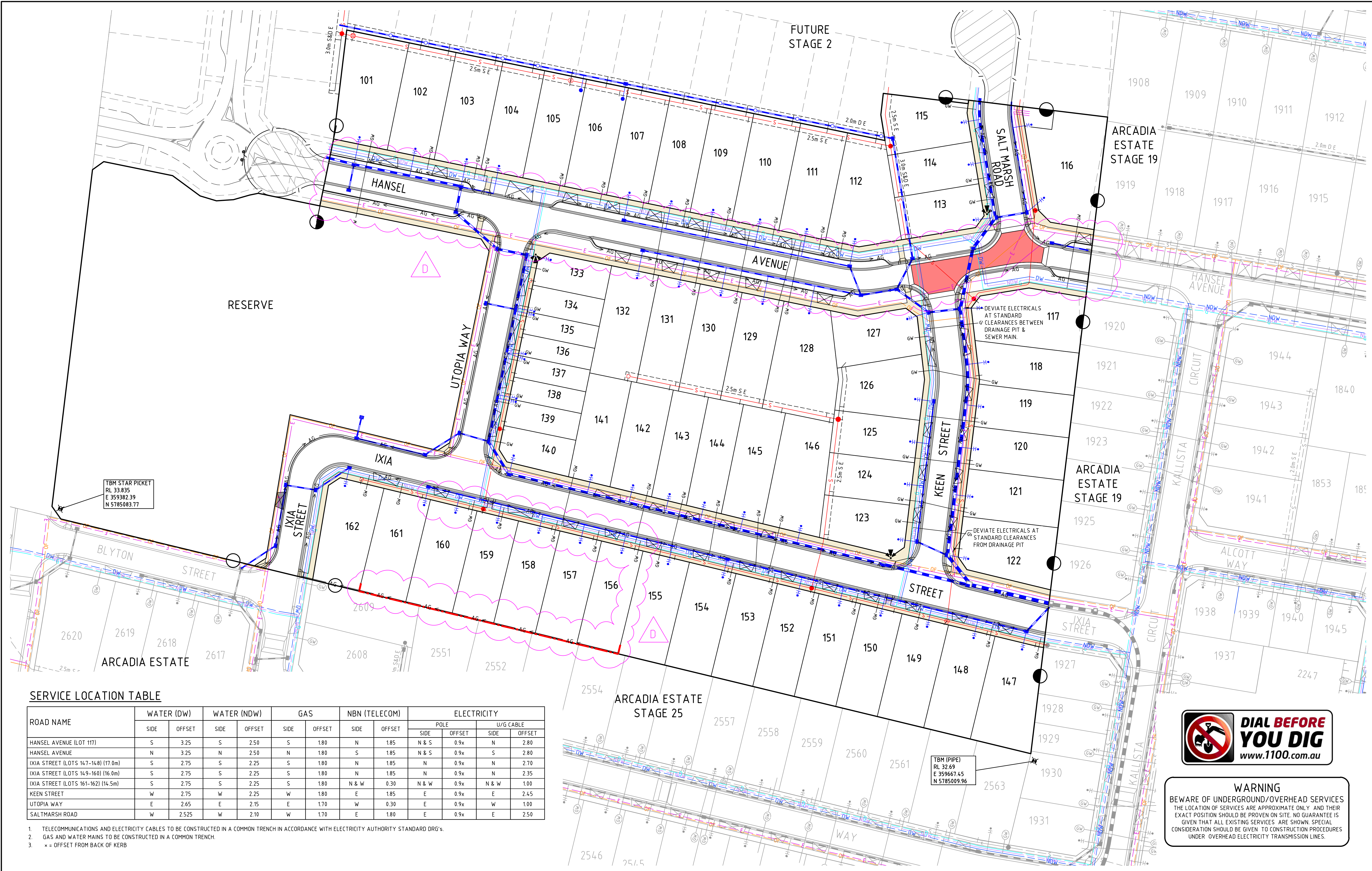
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B. IBBS  
Date  
13/07/21

**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
FACE PLAN**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No 308176CR200 Rev D



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SERVICE LOCATION TABLE

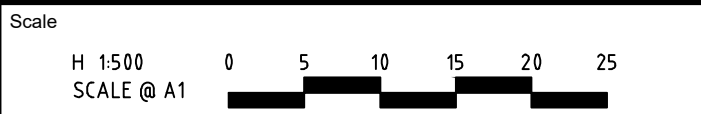
ROAD NAME	WATER (DW)		WATER (NDW)		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE	U/G CABLE	SIDE	OFFSET
HANSEL AVENUE (LOT 117)	S	3.25	S	2.50	S	1.80	N	1.85	N & S	0.9x	N	2.80
HANSEL AVENUE	N	3.25	N	2.50	N	1.80	S	1.85	N & S	0.9x	S	2.80
IXIA STREET (LOTS 147-148) (17.0m)	S	2.75	S	2.25	S	1.80	N	1.85	N	0.9x	N	2.70
IXIA STREET (LOTS 149-160) (16.0m)	S	2.75	S	2.25	S	1.80	N	1.85	N	0.9x	N	2.35
IXIA STREET (LOTS 161-162) (14.5m)	S	2.75	S	2.25	S	1.80	N & W	0.30	N & W	0.9x	N & W	1.00
KEEN STREET	W	2.75	W	2.25	W	1.80	E	1.85	E	0.9x	E	2.45
UTOPIA WAY	E	2.65	E	2.15	E	1.70	W	0.30	E	0.9x	W	1.00
SALTMARSH ROAD	W	2.525	W	2.10	W	1.70	E	1.80	E	0.9x	E	2.50

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



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D	AMENDED LOT 156-162 DRAINAGE, HANSEL AVE PAVEMENT, ADDED RETAINING WALL	S.M	13/07/21
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21
Rev	Amendments	Approved	Date



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Date  
13/07/21

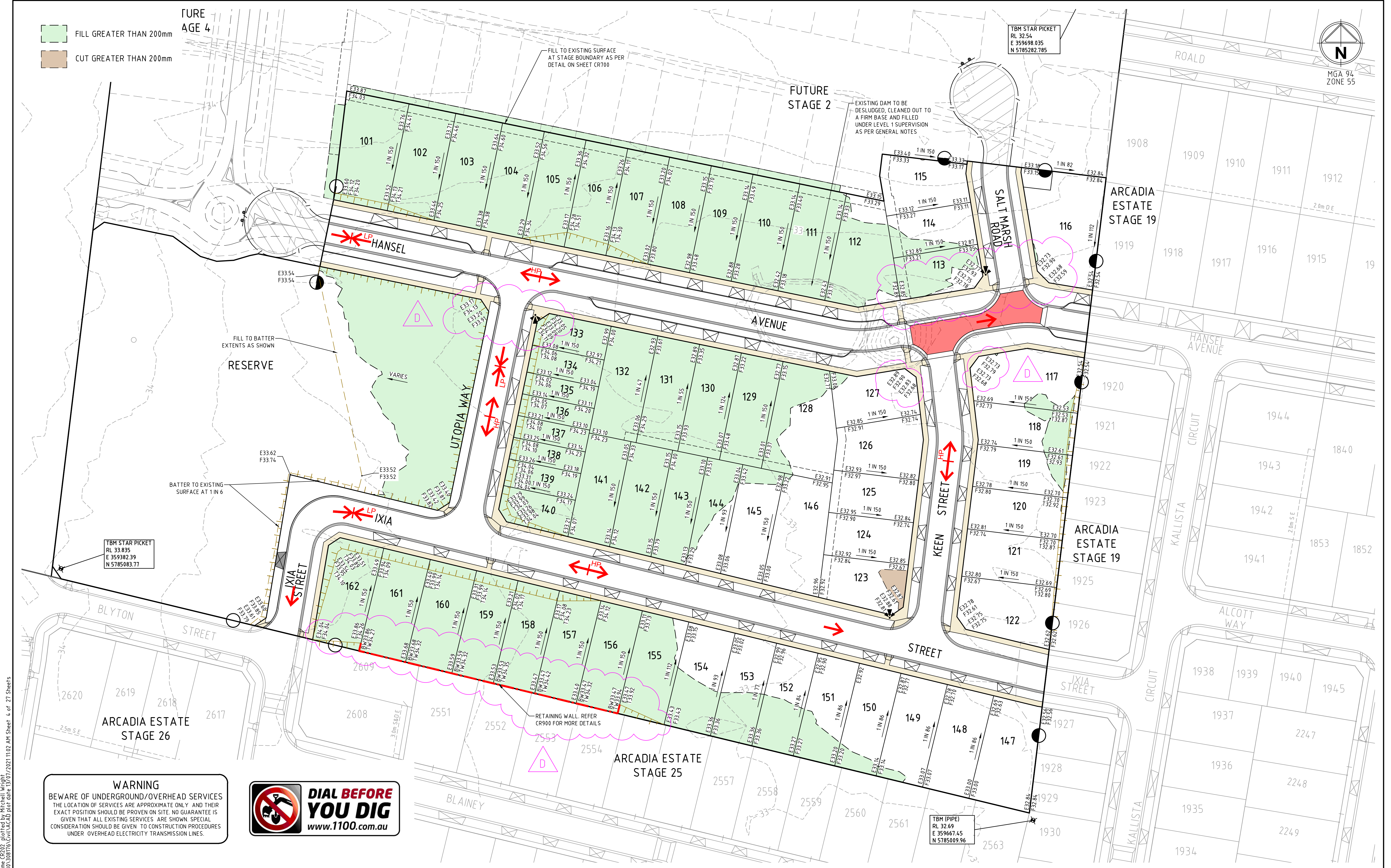
**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
SERVICES PLAN**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY**

Drg No  
**308176CR201**

Rev  
**D**



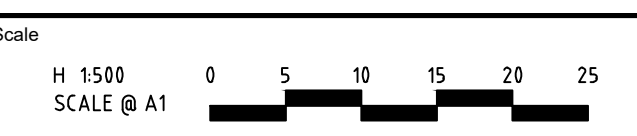


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Rev	Amendments	Approved	Date
D	ADDED RETAINING WALL. AMENDED LOT LEVELS	S.M	13/07/21
C	AMENDED LEVELS AND ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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Designed M. WRIGHT	Checked B. IBBS
Authorised S. MURPHY	Date 13/07/21

**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
EARTHWORKS PLAN  
CARDINIA SHIRE  
YOURLAND PTY LTD**

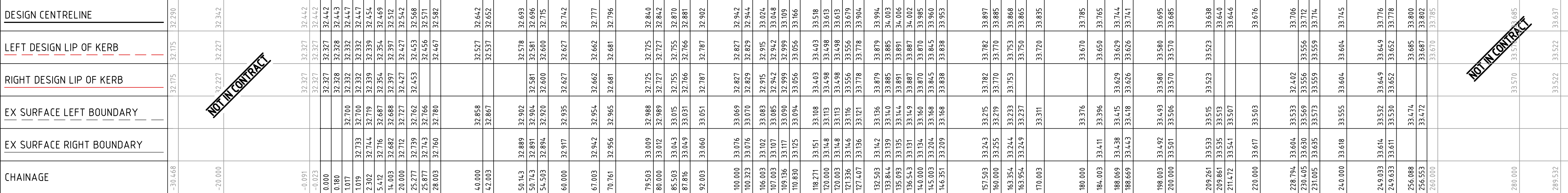
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VERTICAL GEOMETRY  
DESIGN GRADELINE

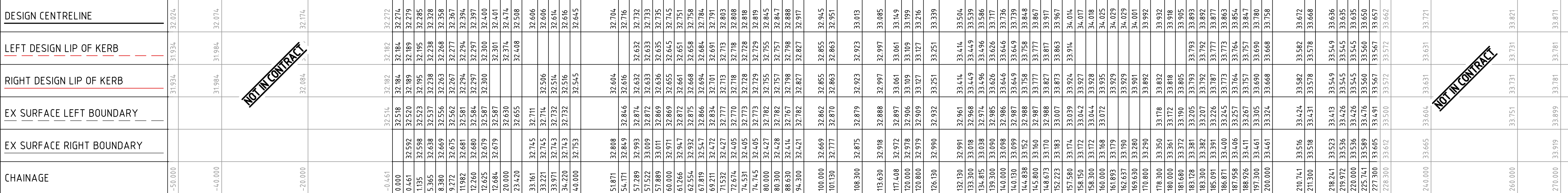
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IXIA STREET

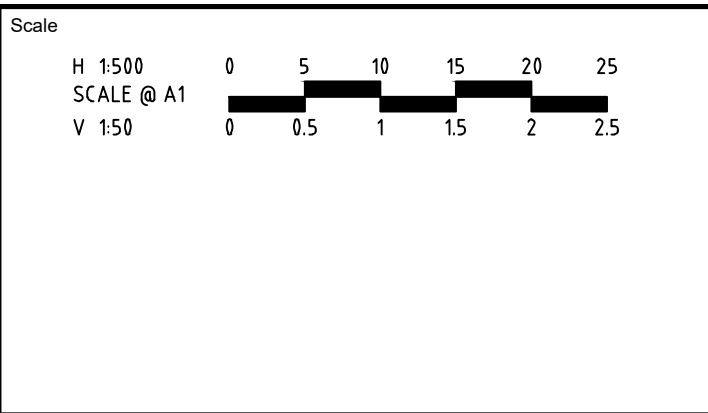
VERTICAL GEOMETRY  
DESIGN GRADELINE

DATUM RL 29.5



HANSEL AVENUE

Rev	Amendments	Approved	Date
C	ISSUED FOR APPROVAL	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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S. MURPHY

Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
ROAD LONG SECTIONS - SHEET 1  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No 308176CR300 Rev C





Scale

Category	Start	End
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SCALE @ A1	0	2
V 150	0	2.5



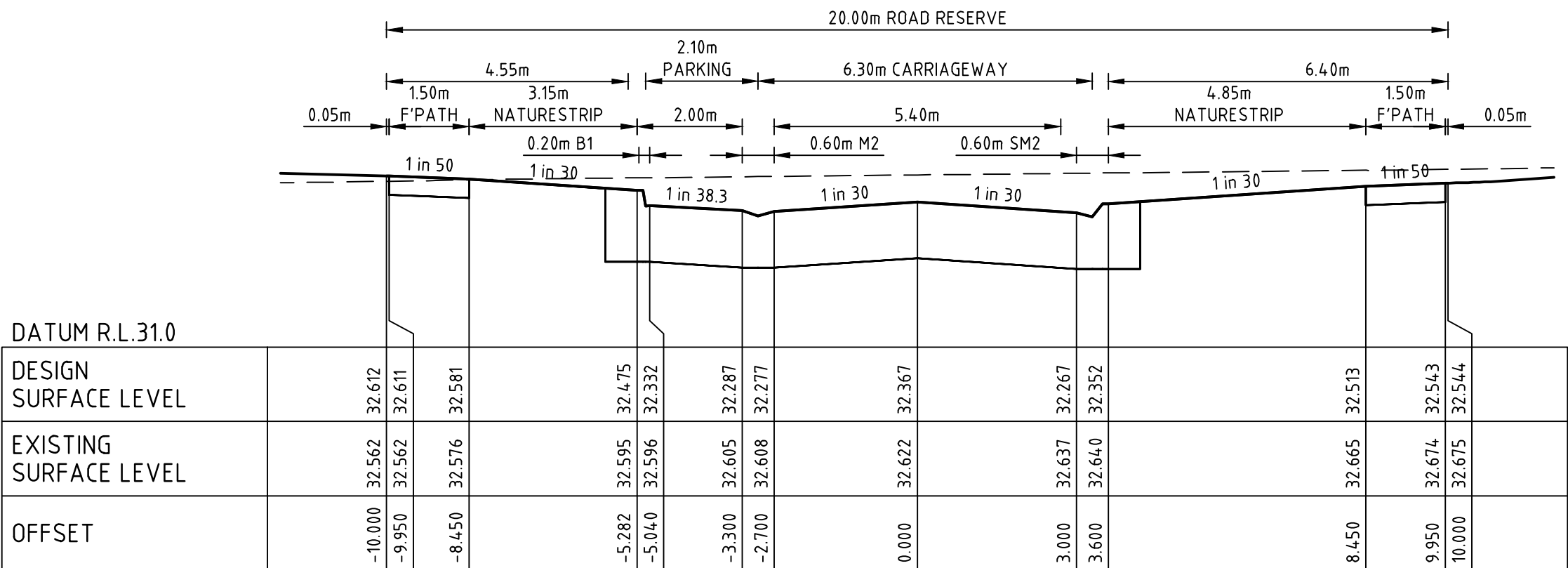
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**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
ROAD LONG SECTIONS - SHEET 2  
CARDINIA SHIRE  
YOURLAND PTY LTD**

**PRELIMINARY** Drg No **308176CR301**

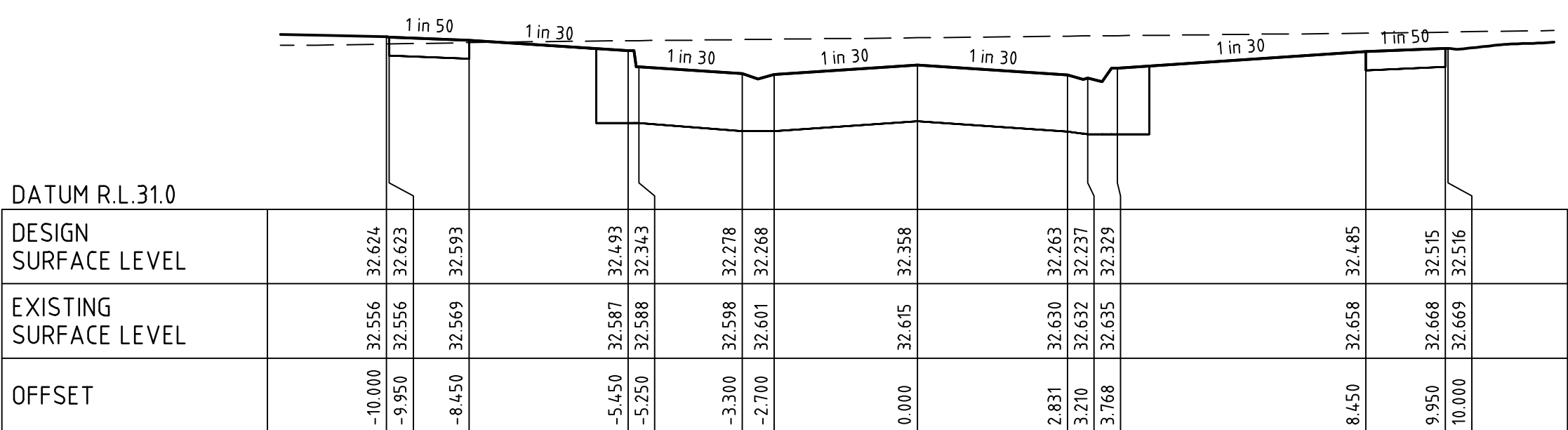
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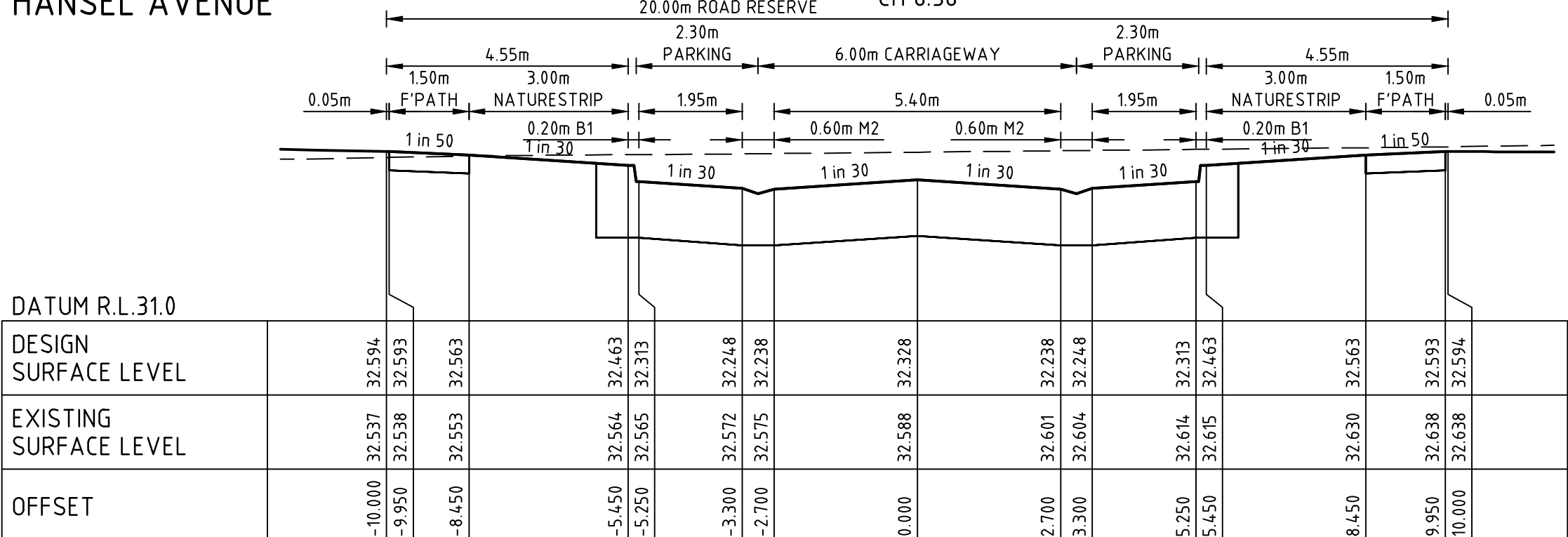
HANSEL AVENUE

CH 9.27



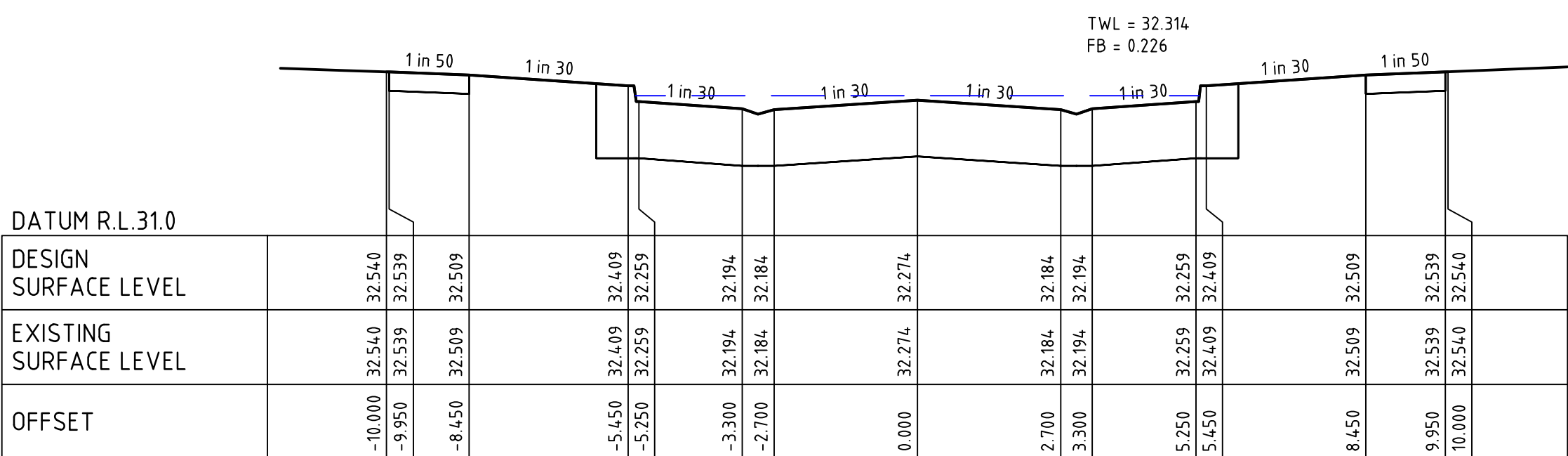
HANSEL AVENUE

CH 8.38



HANSEL AVENUE

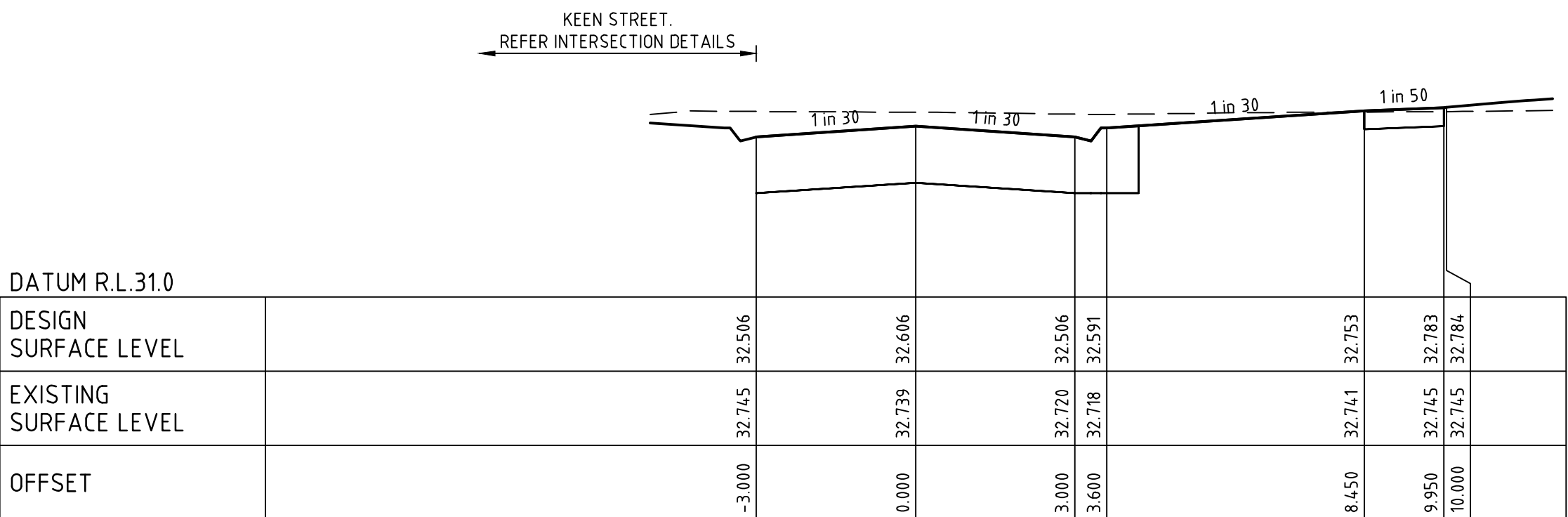
CH 5.37



HANSEL AVENUE

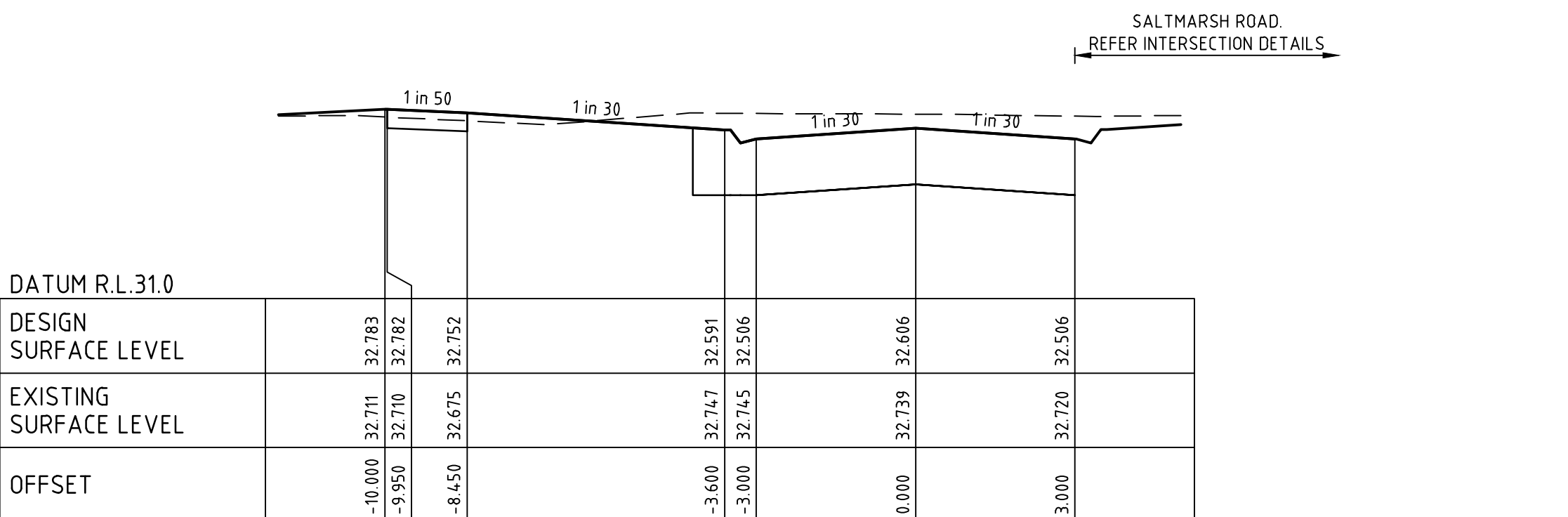
CH 0.00

EXISTING



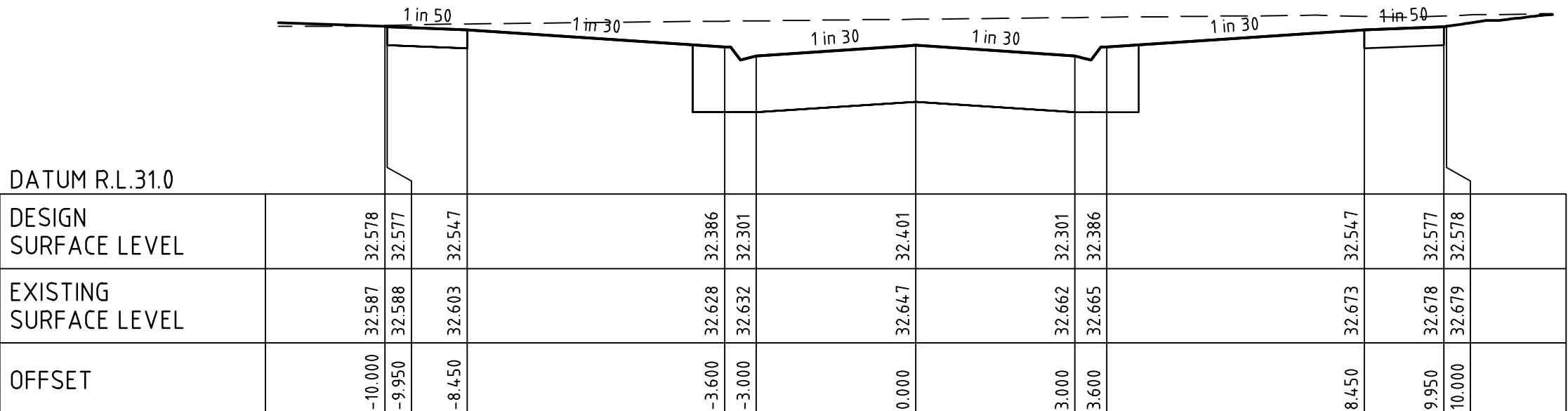
HANSEL AVENUE

CH 33.22



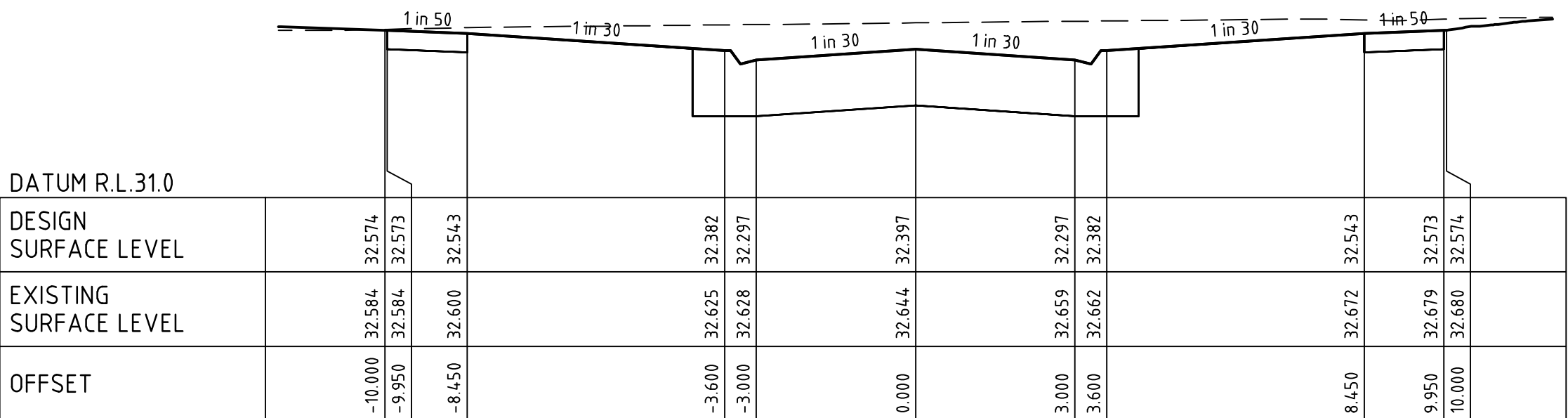
HANSEL AVENUE

CH 33.16



HANSEL AVENUE

CH 12.68



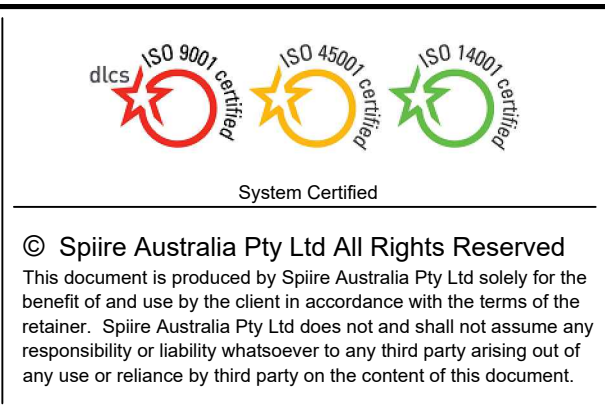
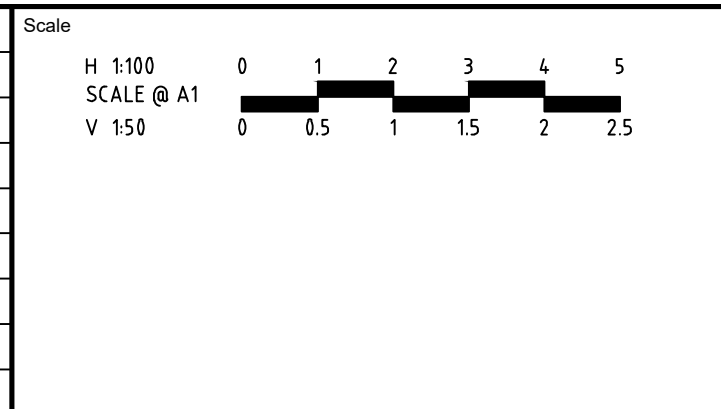
HANSEL AVENUE

CH 12.26

**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.



Rev	Amendments	Approved	Date
D	AMENDED CROSS SECTIONS	S.M	13/07/21
C	ISSUED FOR APPROVAL	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



**spiire**

L6 414 LA TROBE STREET PO BOX 16084 MELBOURNE  
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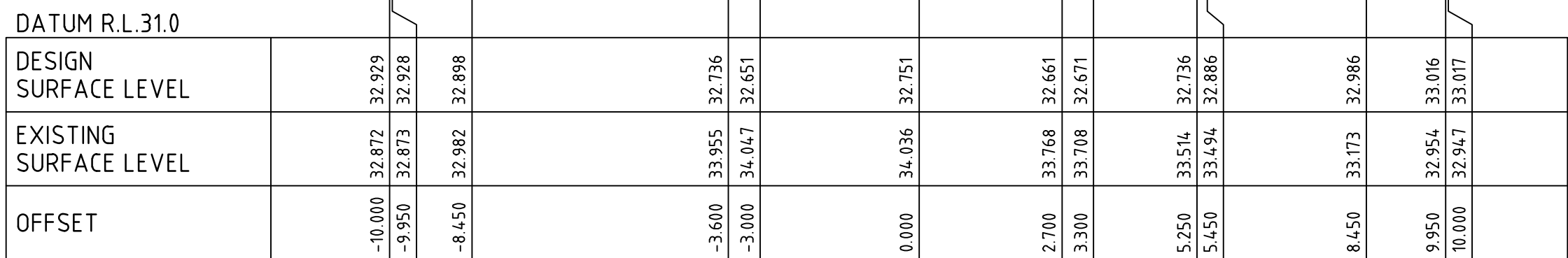
**YourLand** Developments

Designed <b>M. WRIGHT</b>	Checked <b>B. IBBS</b>
Authorised <b>S. MURPHY</b>	Date <b>13/07/21</b>

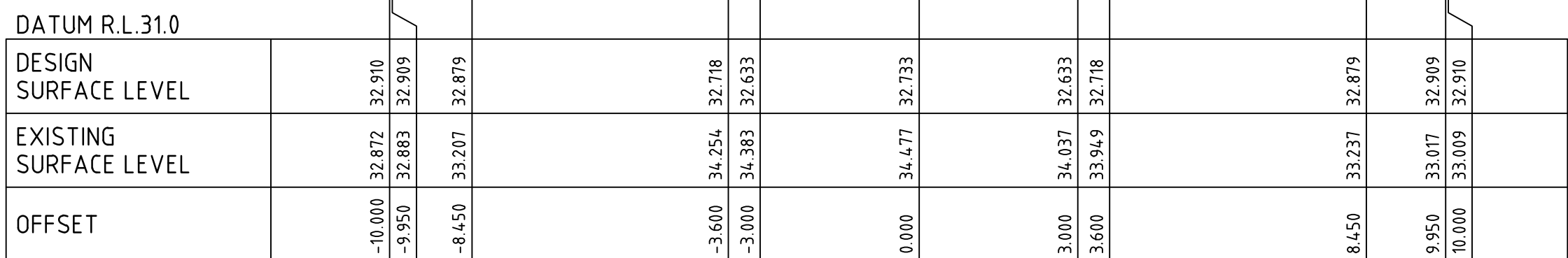
**OFFICER CENTRAL**  
**STAGE 1**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - SHEET 1**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No **308176CR400** Rev **D**

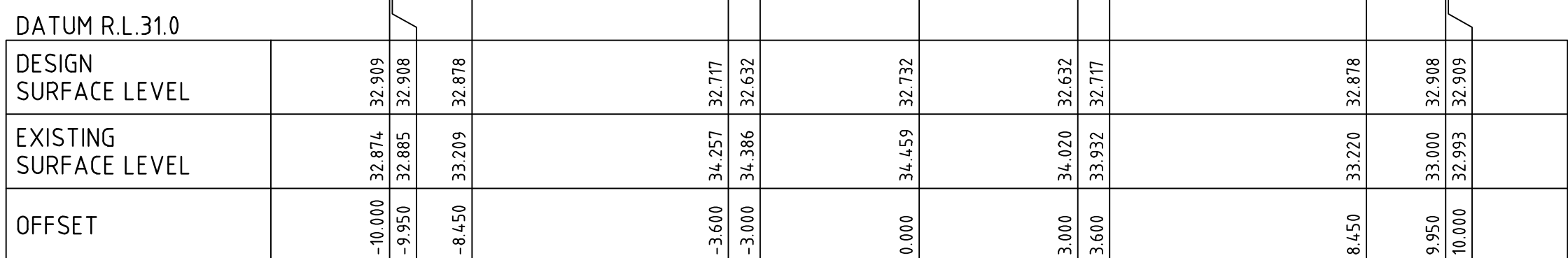




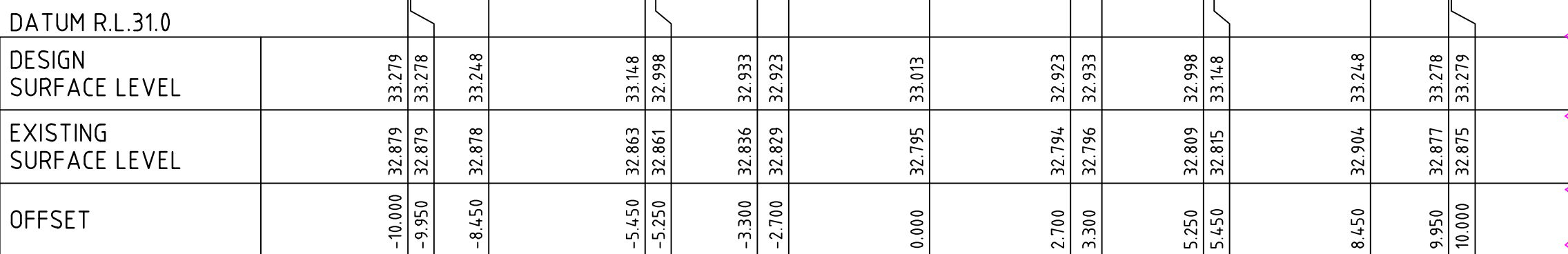
CH 61.27



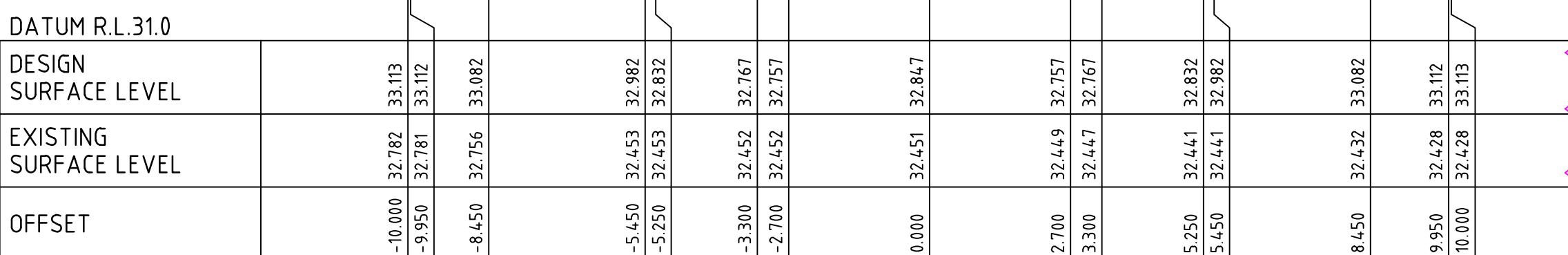
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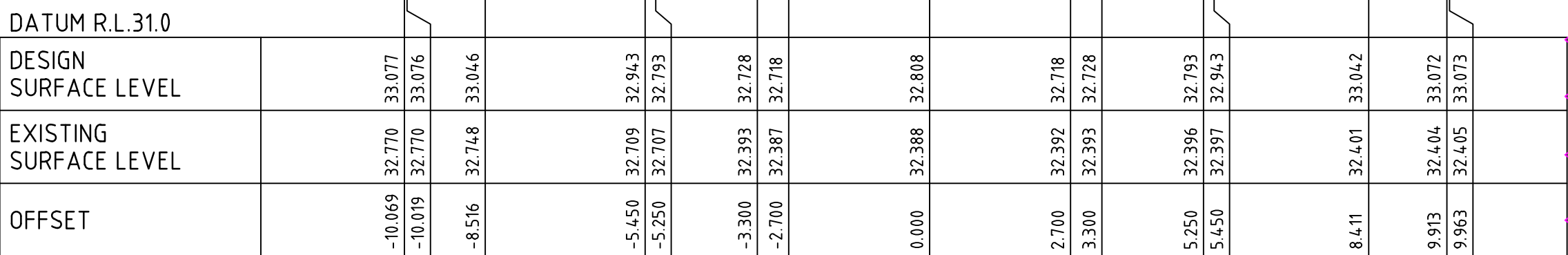
CH 57.29



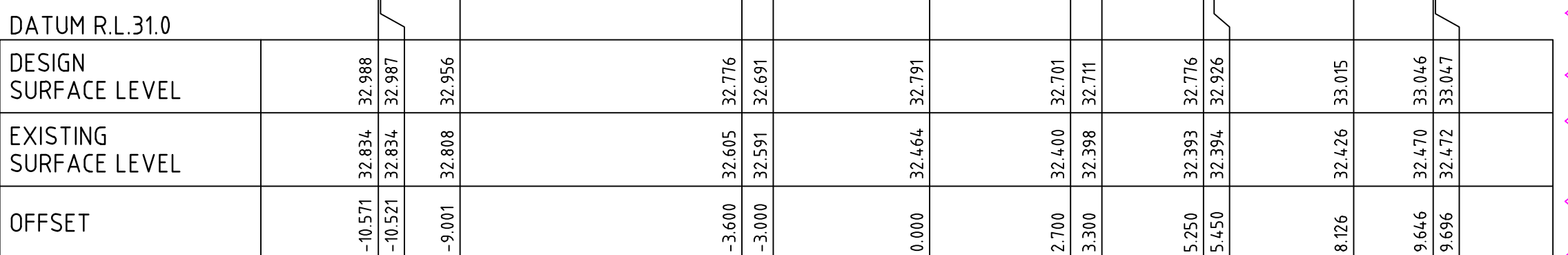
CH 108.30



CH 80.30



CH 72.67


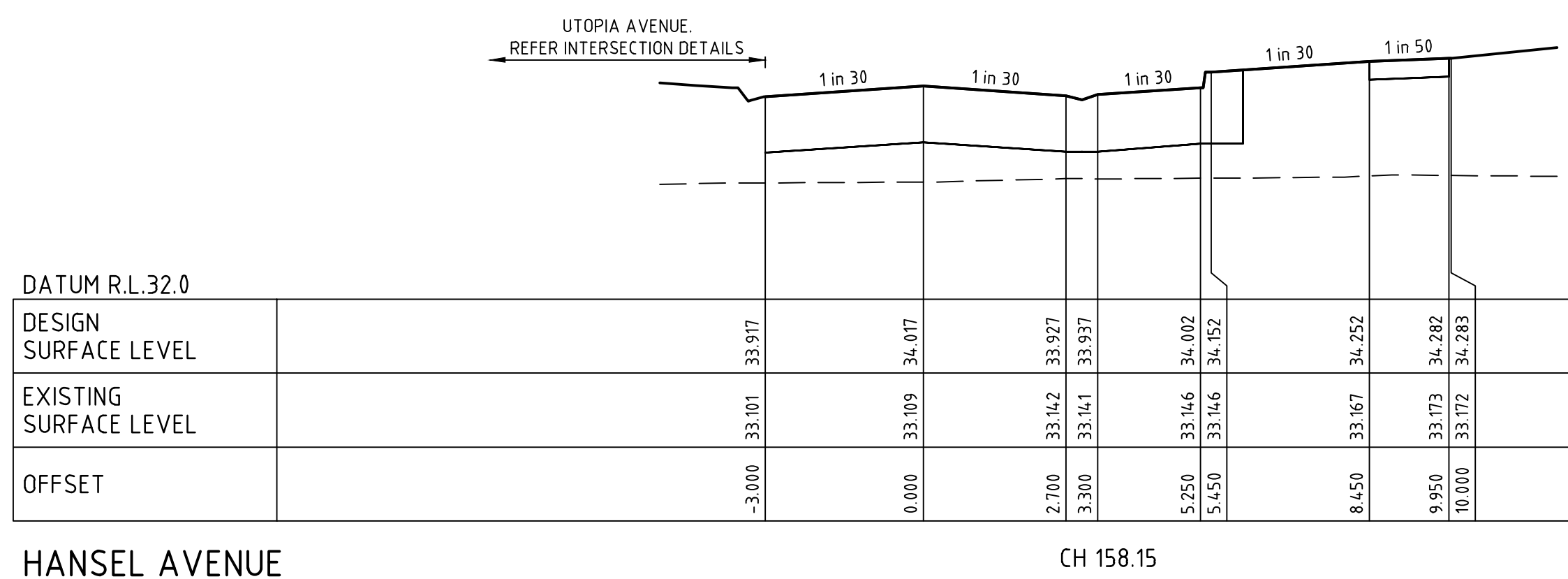
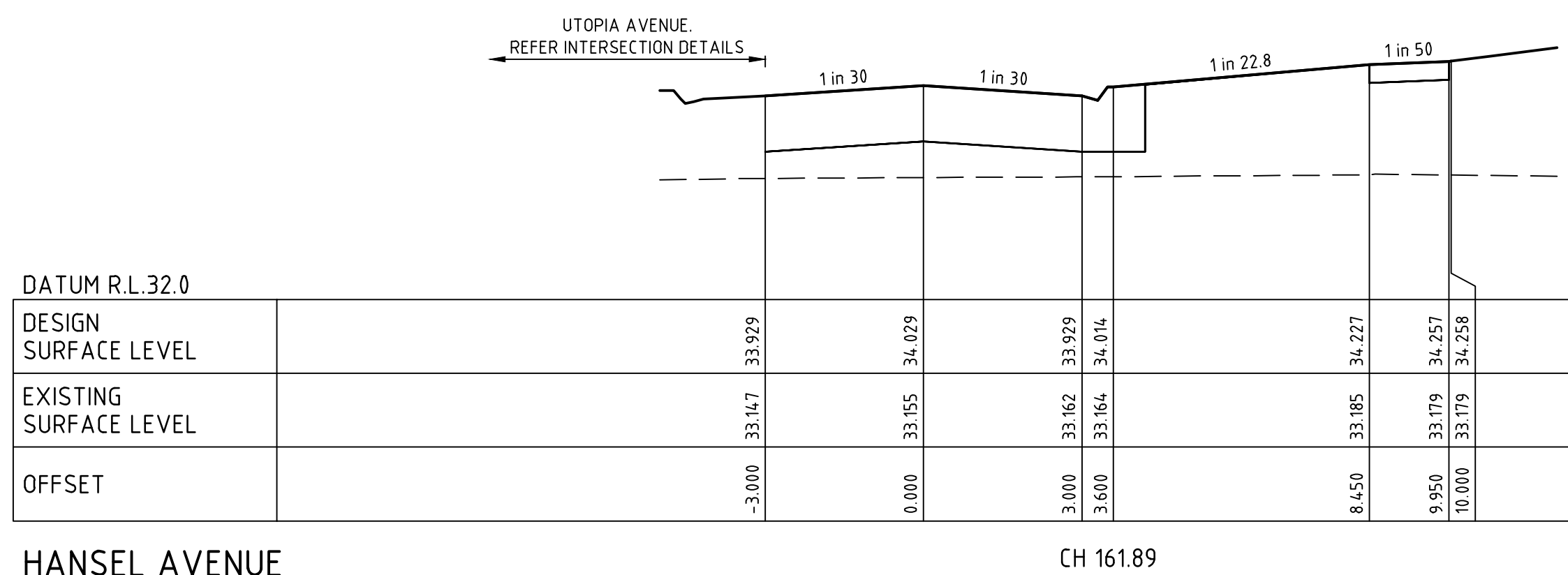
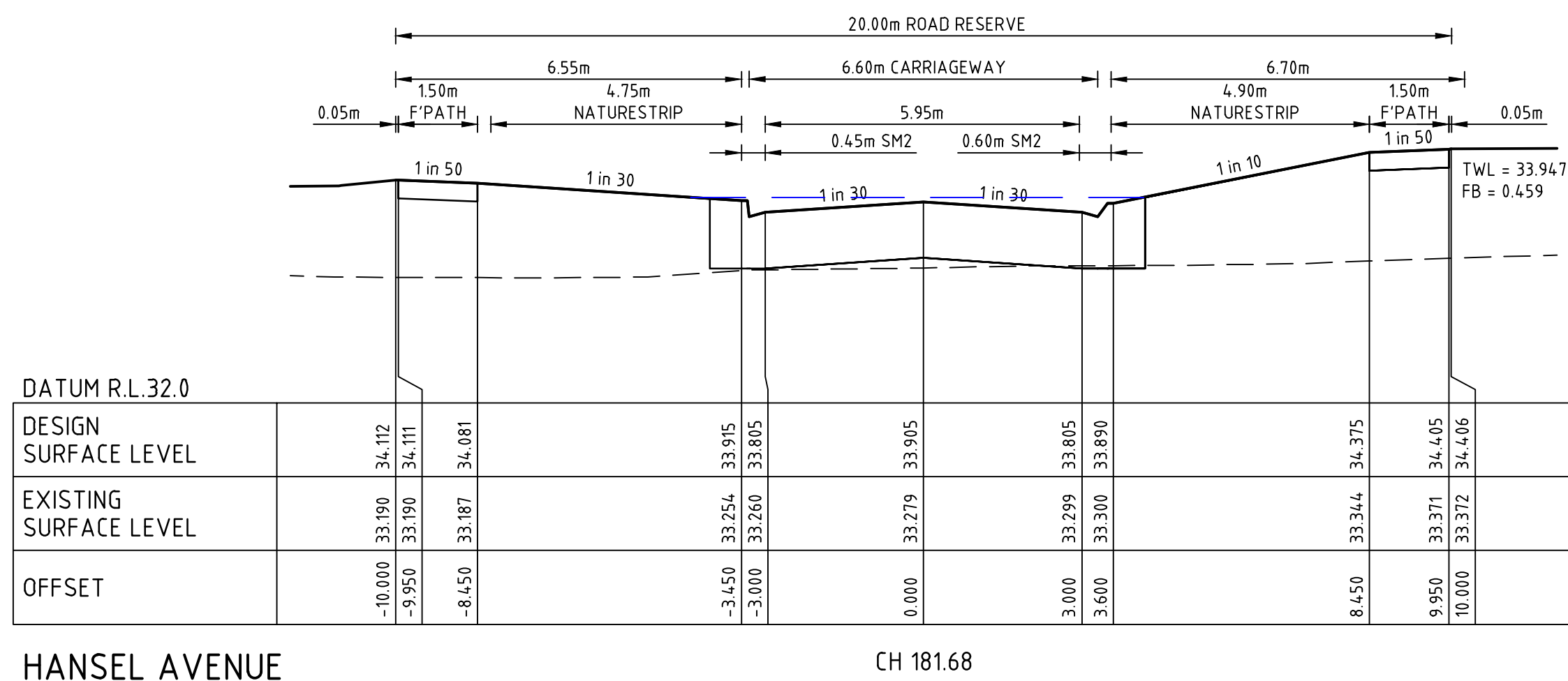
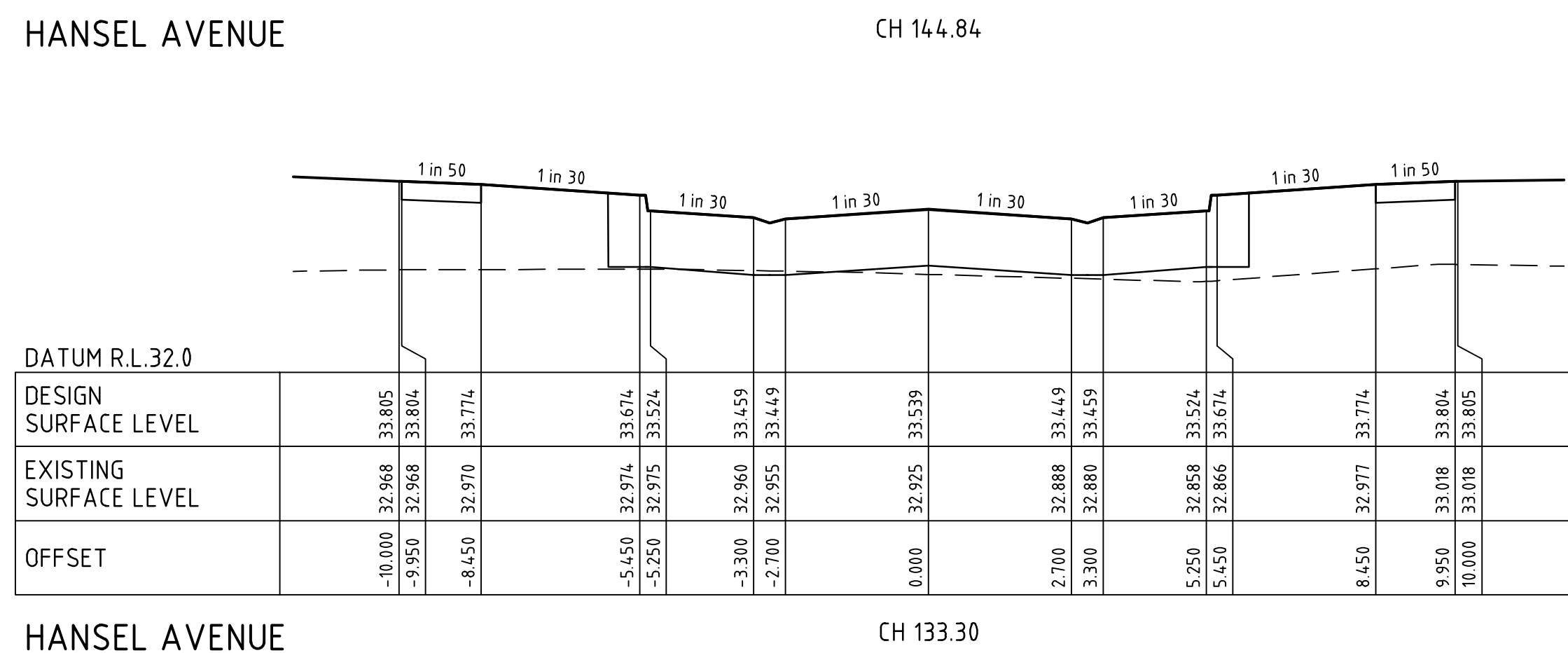
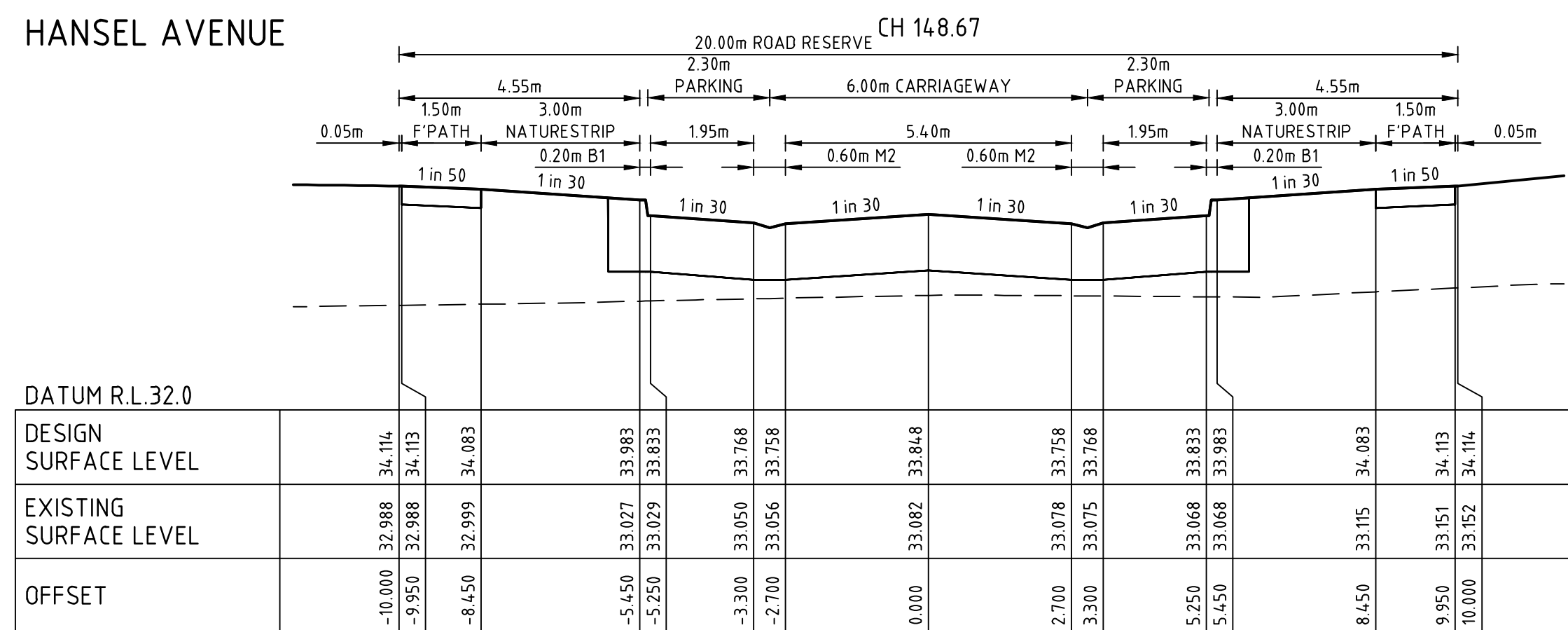
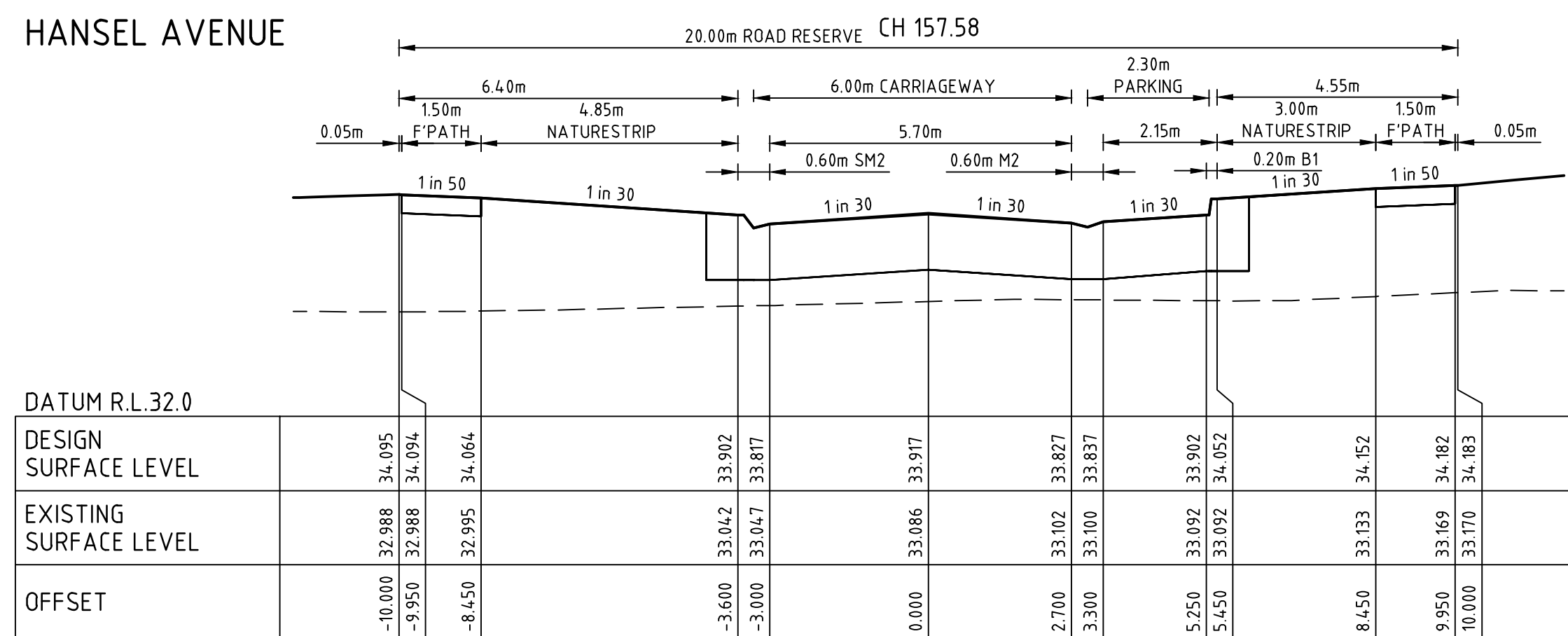


H 69.21


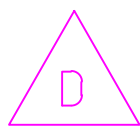


A triangle with the letter 'D' inside it.









DAT

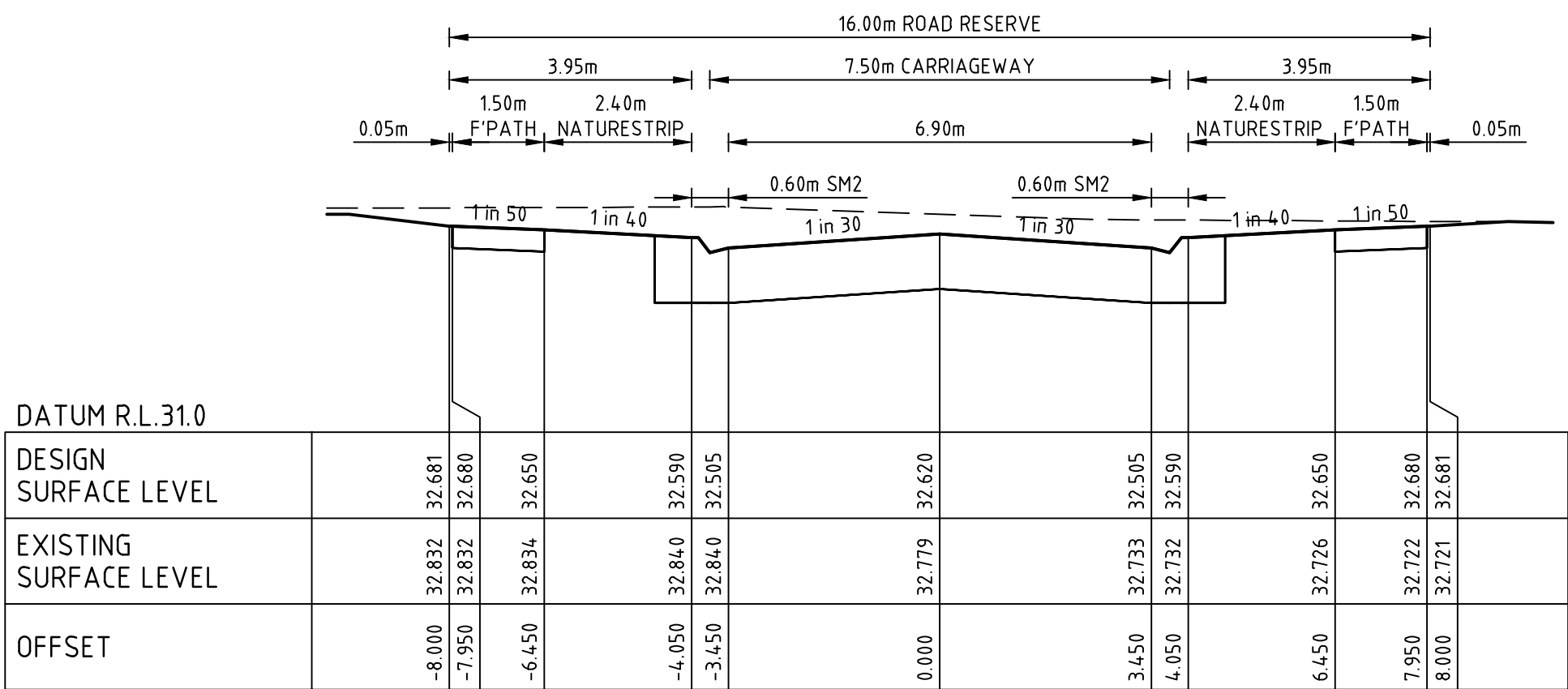
DESIGN SURVEY

EXIST	
SUR	

OFFS  
LIA

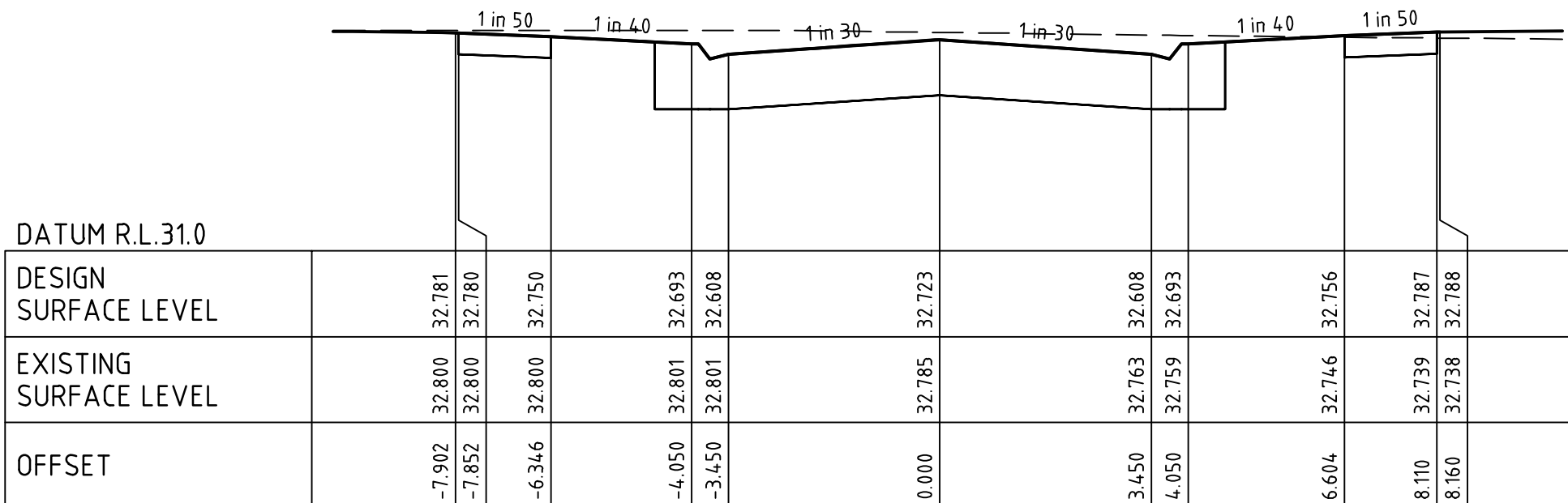


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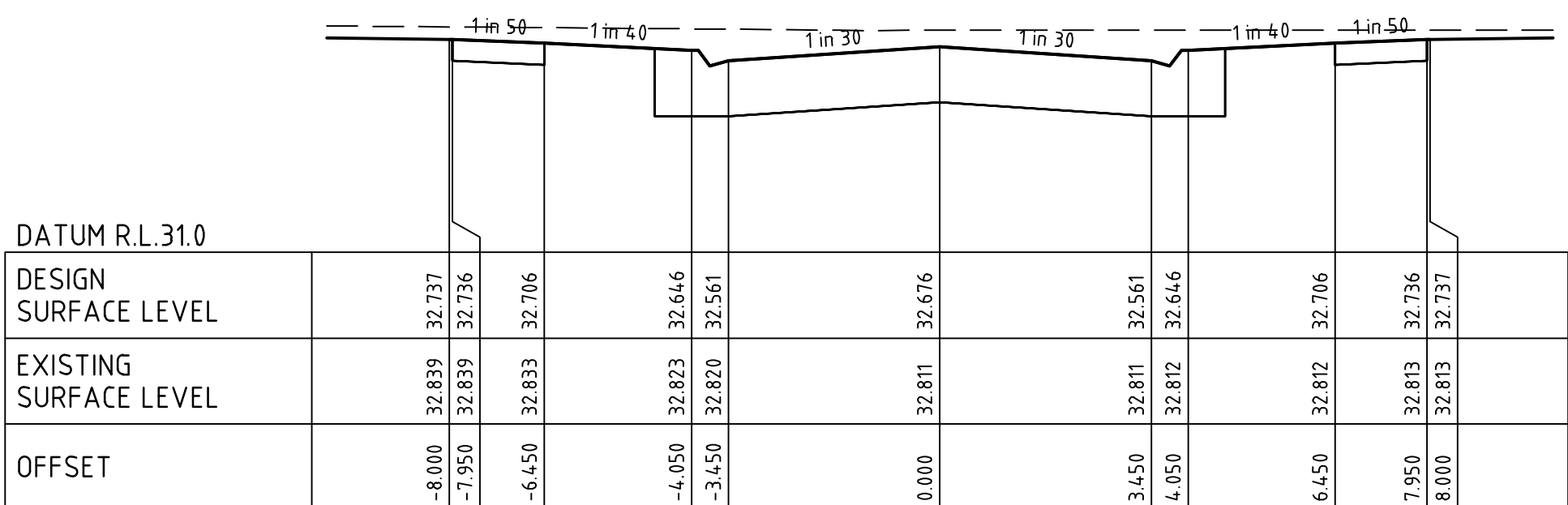
KEEN STREET

CH 81.85



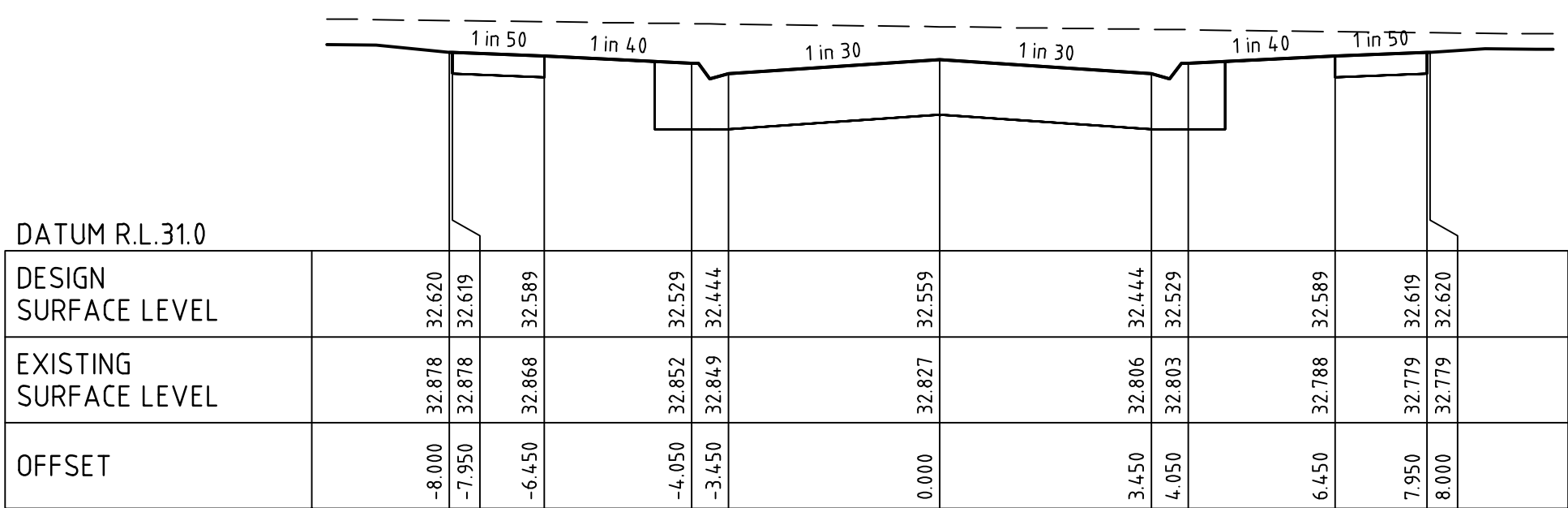
KEEN STREET

CH 61.41



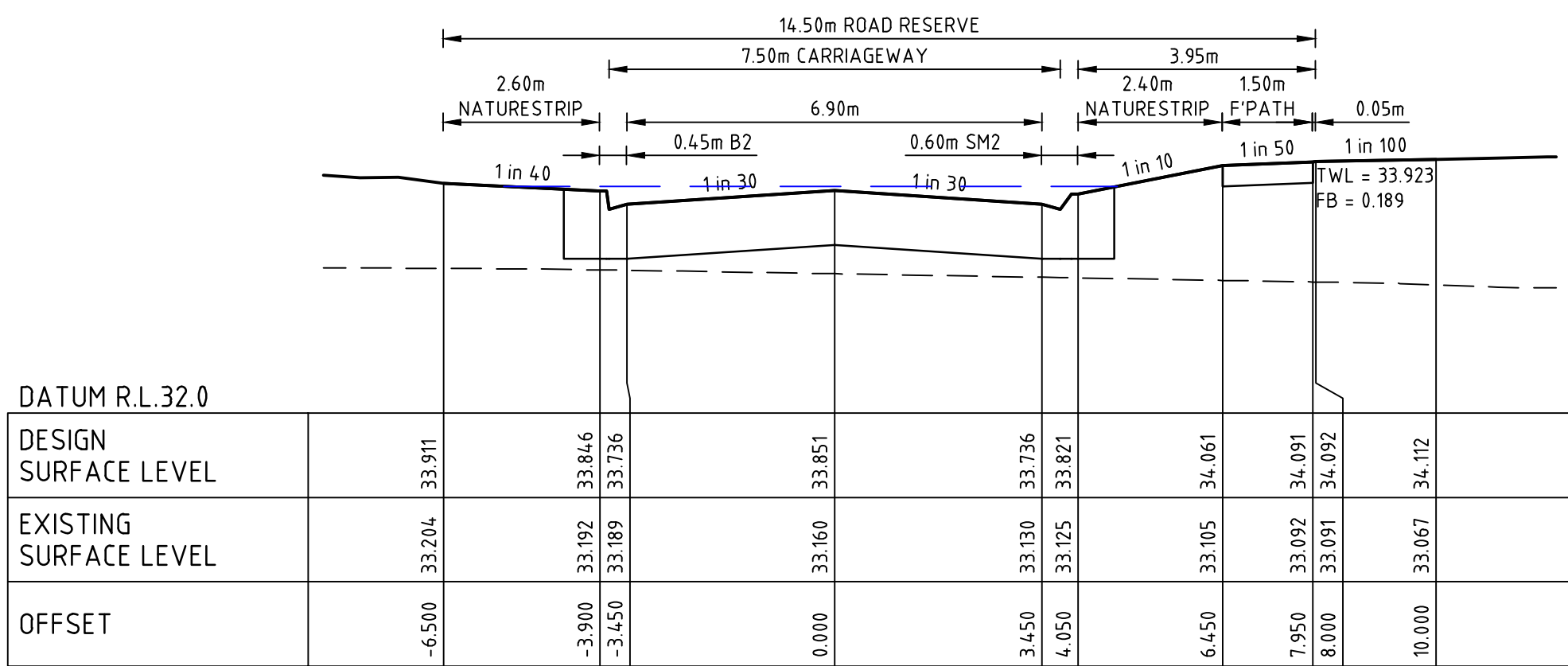
KEEN STREET

CH 37.00



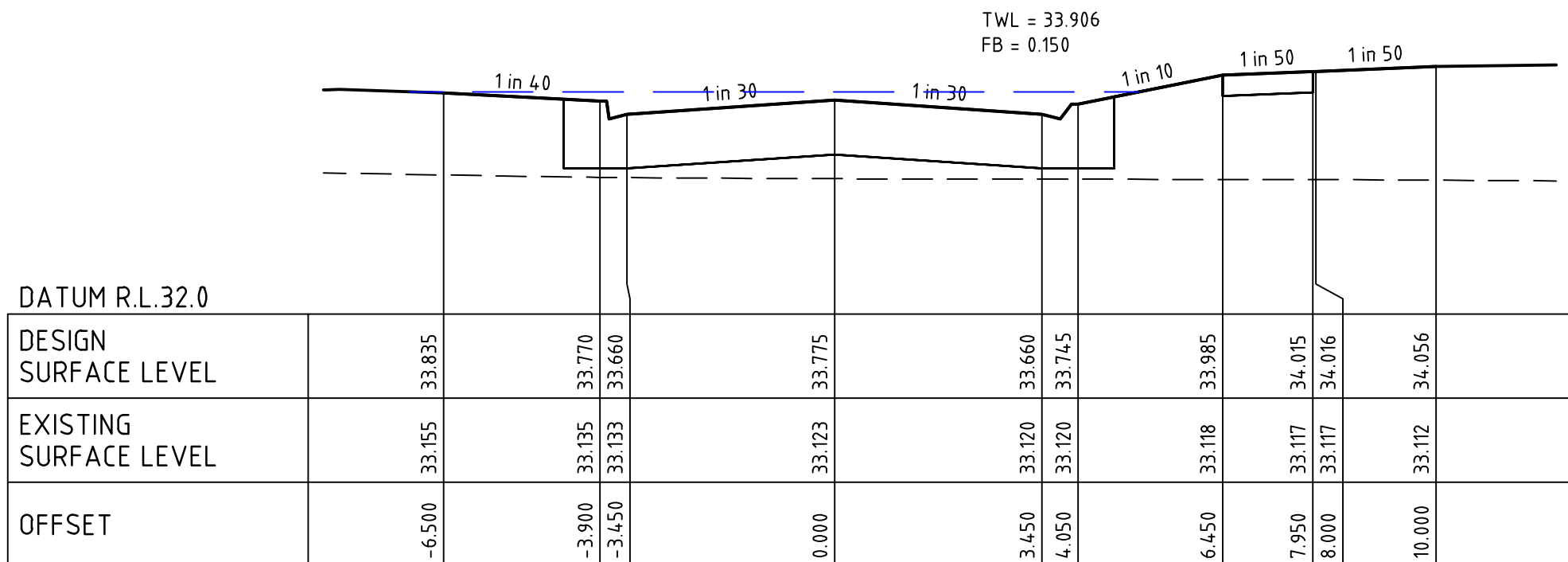
KEEN STREET

CH 13.55



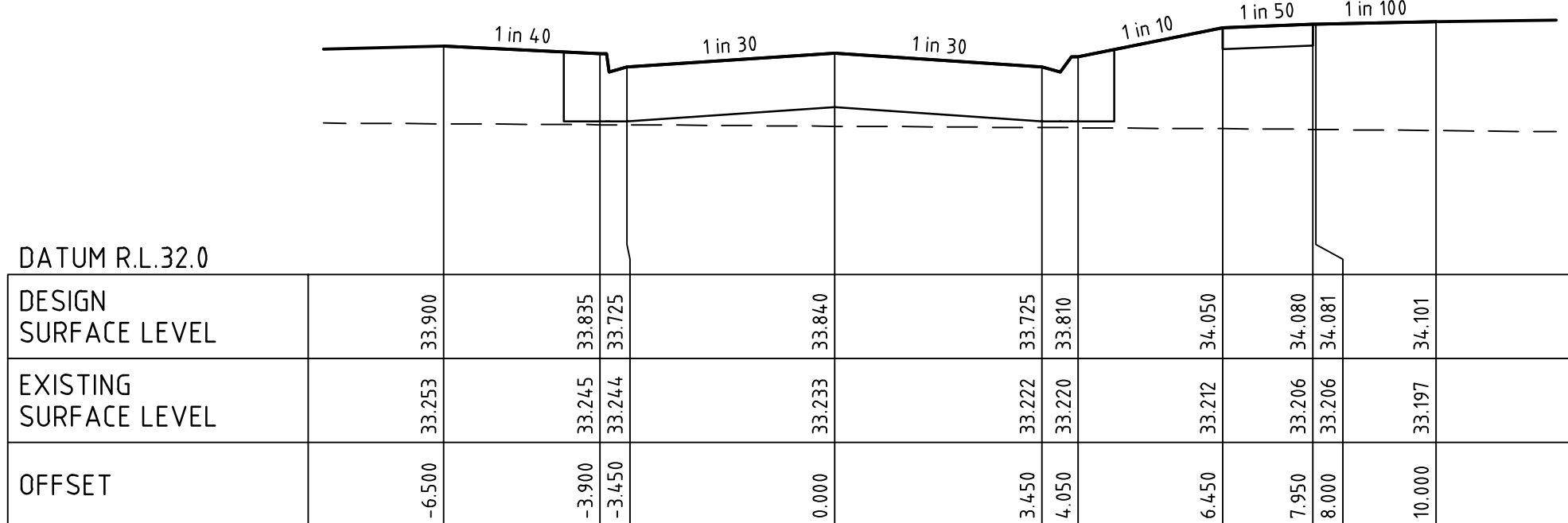
UTOPIA WAY

CH 66.99



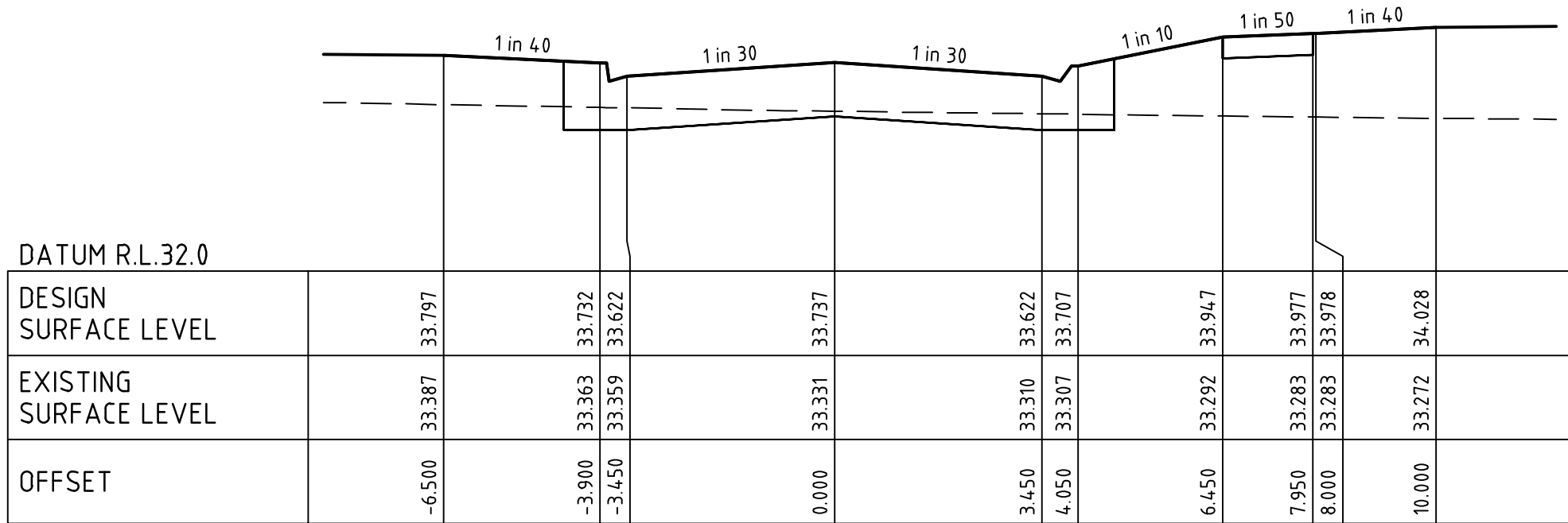
UTOPIA WAY

CH 51.84  
LOW POINT



UTOPIA WAY

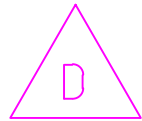
CH 38.84



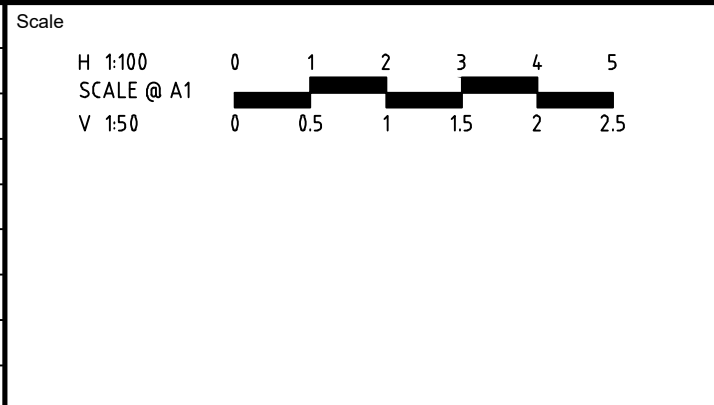
UTOPIA WAY

CH 12.48

**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.



Rev	Amendments	Approved	Date
D	AMENDED CROSS SECTIONS	S.M	13/07/21
C	AMENDED SECTIONS AND ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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spiire.com.au ABN 55 050 029 635

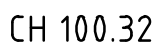
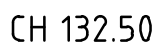
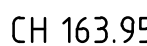
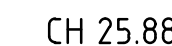
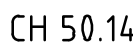
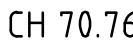


Designed  
M. WRIGHT  
Authorised  
S. MURPHY  
Checked  
B. IBBS  
Date  
13/07/21

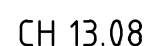
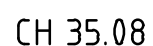
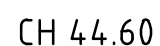
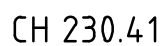
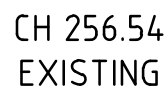
**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
ROAD CROSS SECTIONS - SHEET 5**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No 308176CR404 Rev D









Scale

H 1:100  
SCALE @ A1  
V 1:50

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0 0.5 1 1.5 2 2.5

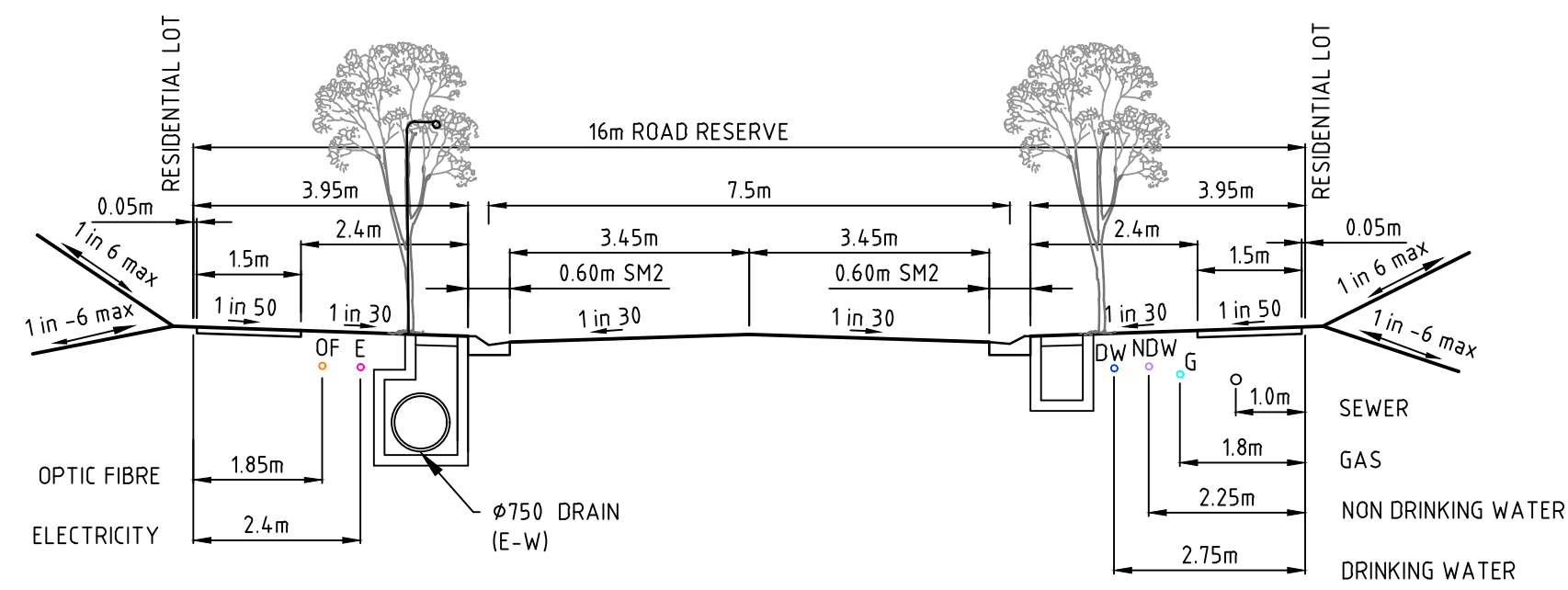


Designed	Checked
M. WRIGHT	B. IBBS
Authorised	Date
S. MURPHY	13/07/21

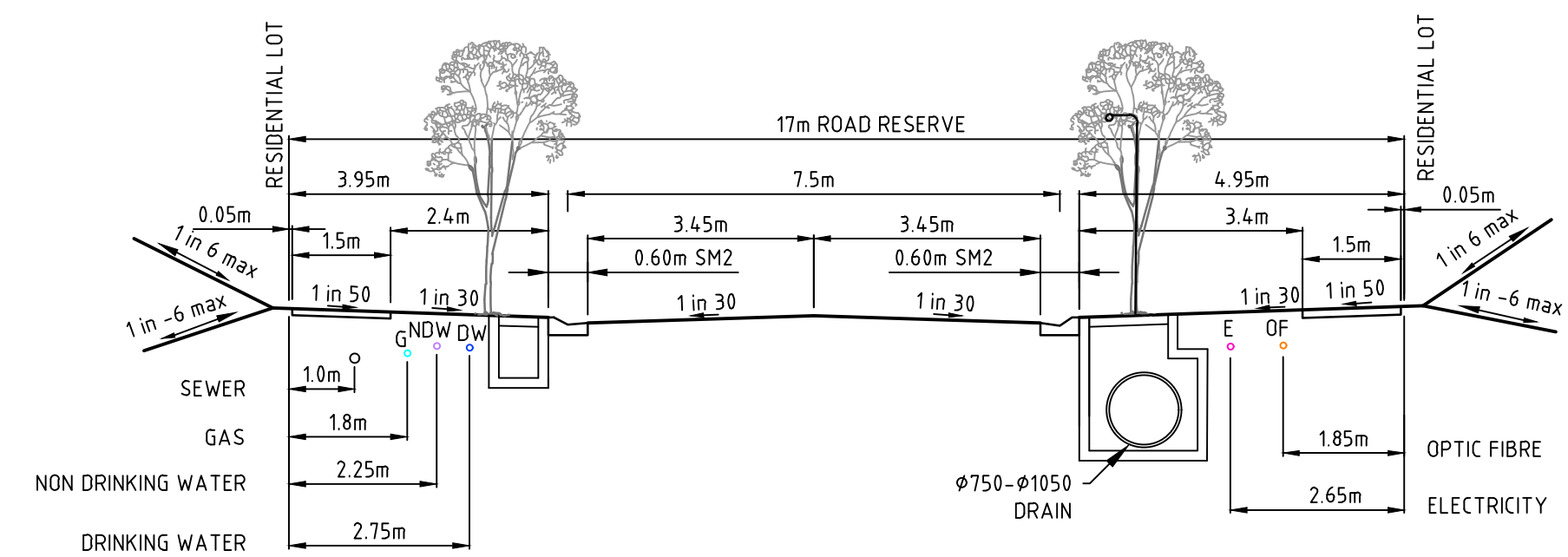
**PRELIMINARY** Drg No **308176CR406**

Rev

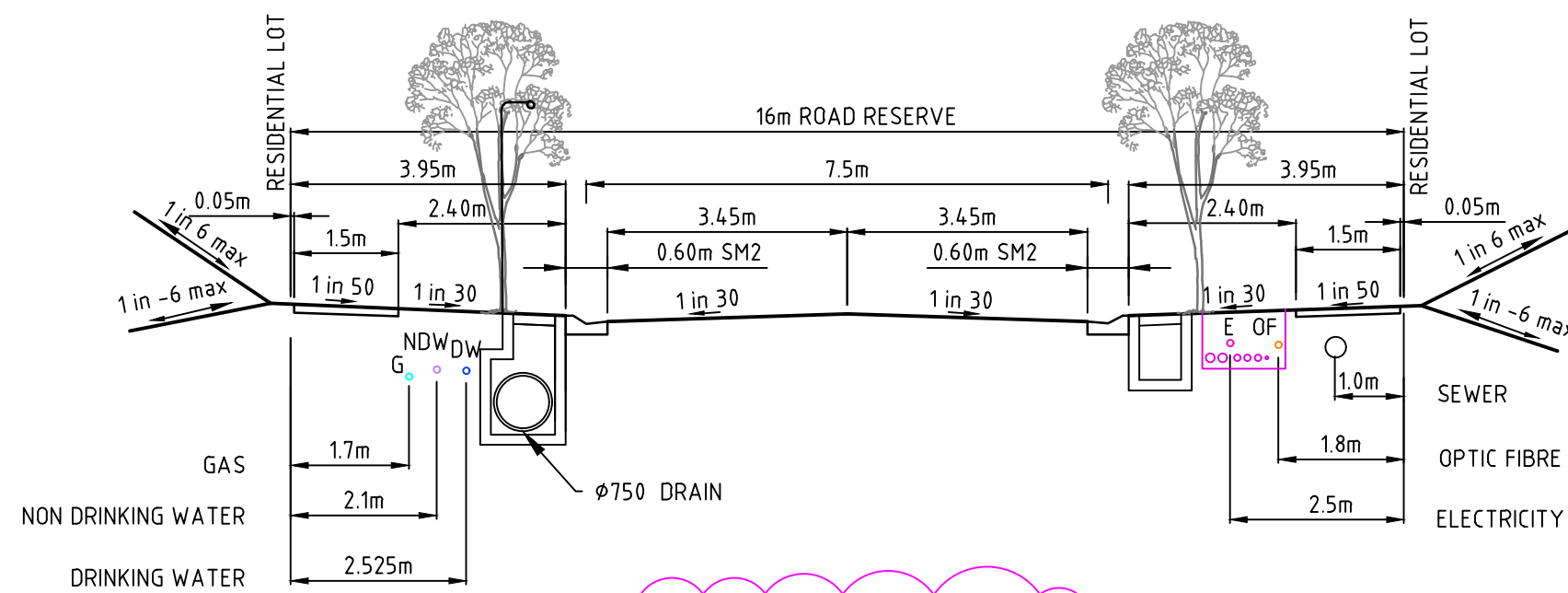




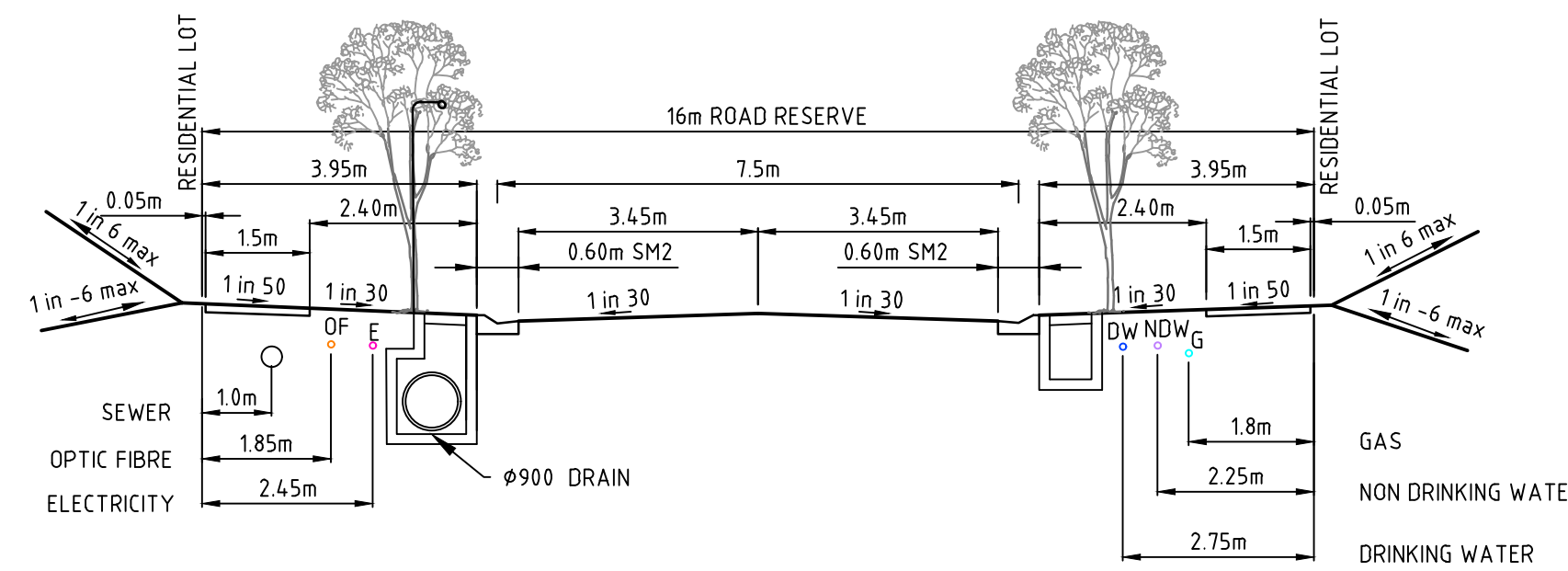
1. IXIA STREET  
16m WIDE RESIDENTIAL ROAD



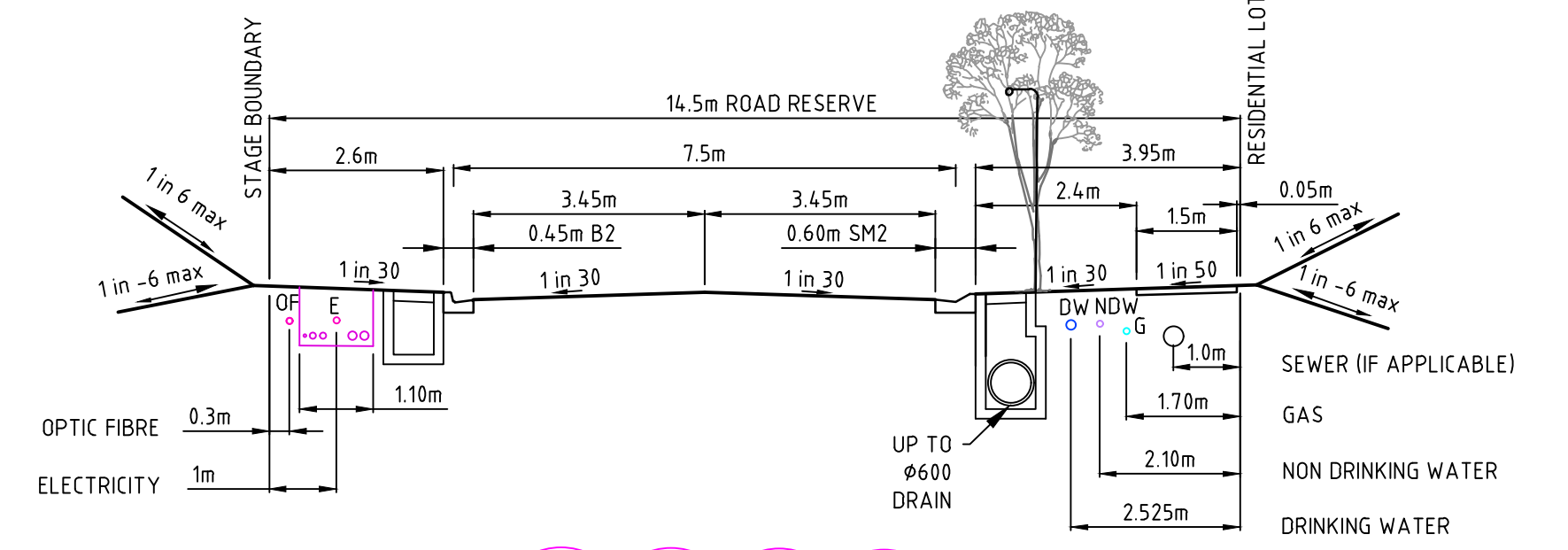
2. IXIA STREET  
17m WIDE RESIDENTIAL ROAD



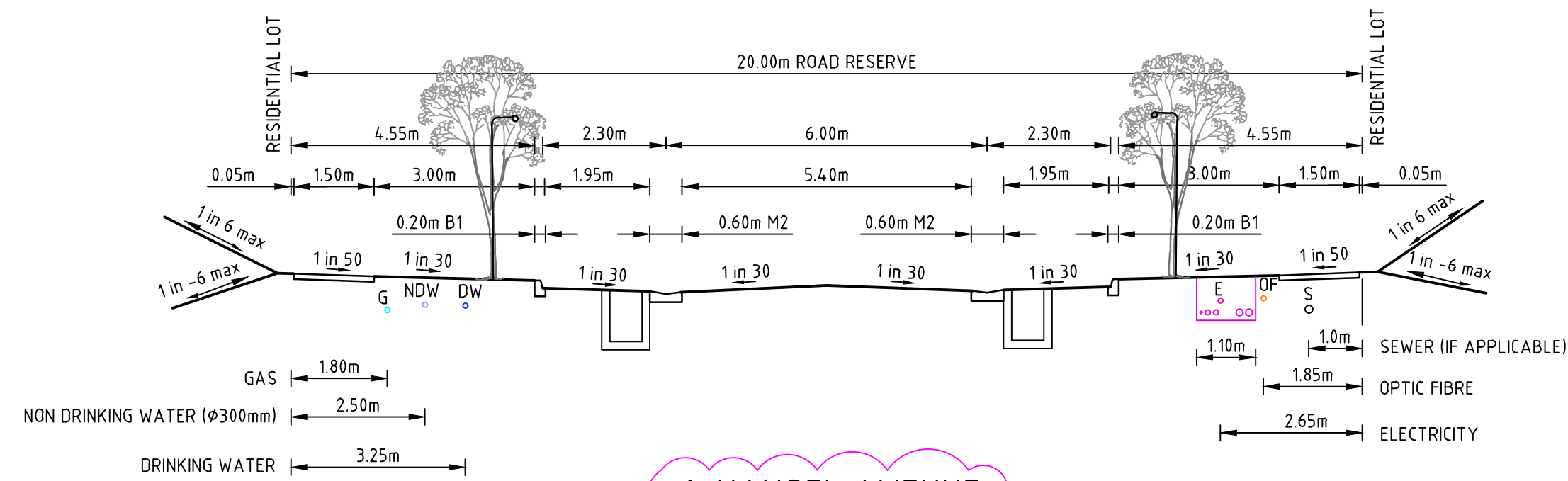
3. SALT MARSH ROAD  
16m WIDE RESIDENTIAL ROAD



4. KEEN STREET  
16m WIDE RESIDENTIAL ROAD



5. UTOPIA WAY & IXIA STREET (14.5m)  
14.5m WIDE RESIDENTIAL ROAD



6. HANSEL AVENUE  
20m WIDE RESIDENTIAL ROAD

Rev	Amendments	Approved	Date
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21

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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System Certified

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Designed M. WRIGHT	Checked B. IBBS
Authorised S. MURPHY	Date 13/07/21

**OFFICER CENTRAL**  
**STAGE 1**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS - TYPICAL SECTIONS**  
 CARDINIA SHIRE  
 YOURLAND PTY LTD

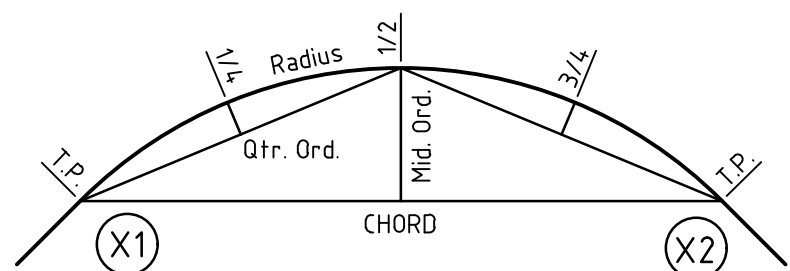
**PRELIMINARY**

Drg No  
**308176CR407**

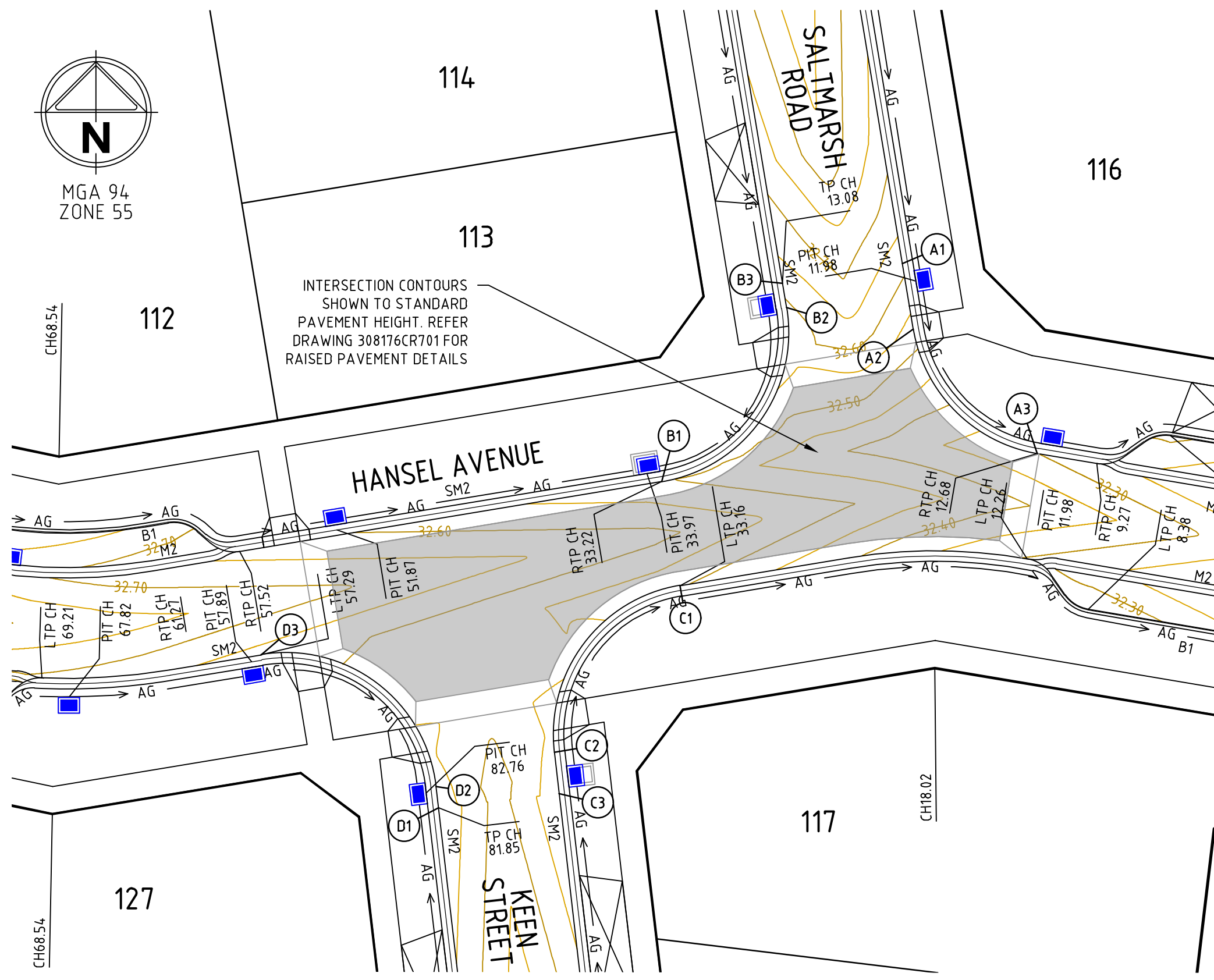
Rev  
**C**



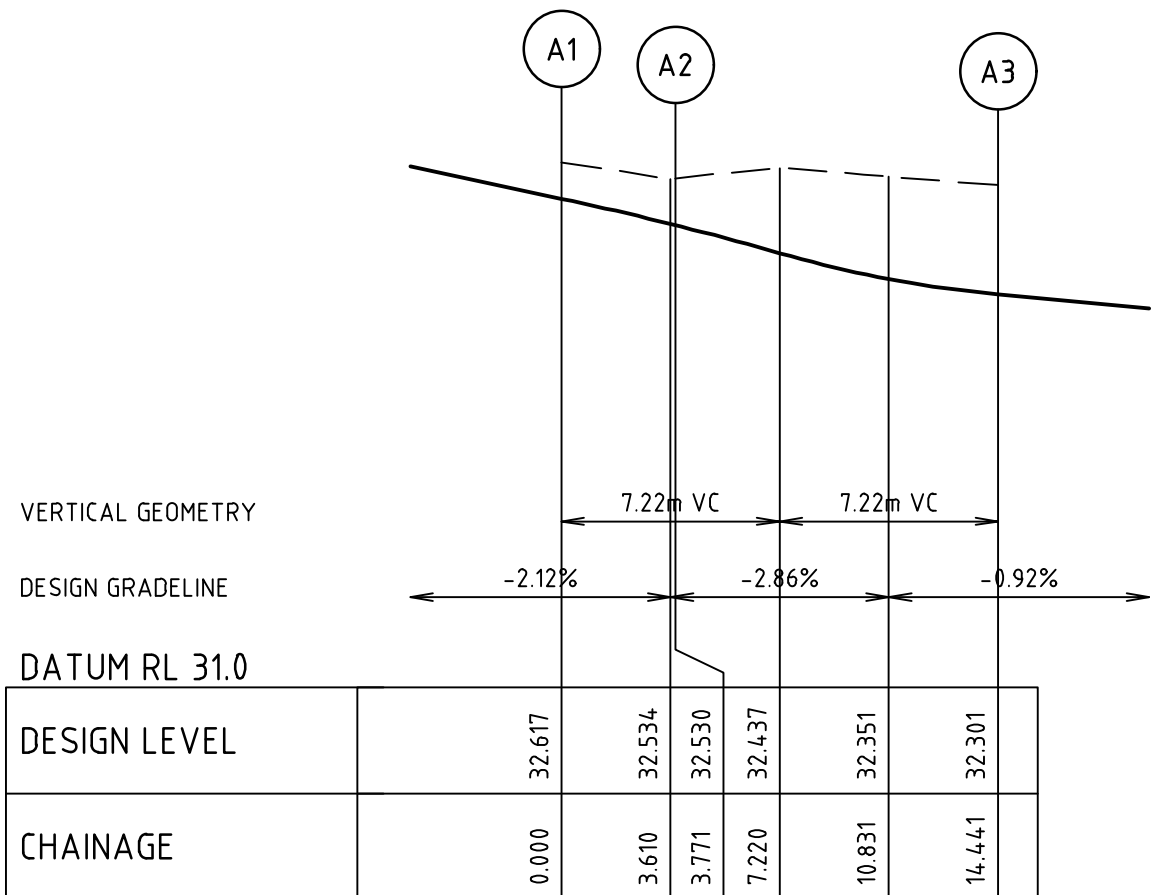
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KERB RETURN SETOUT DETAIL



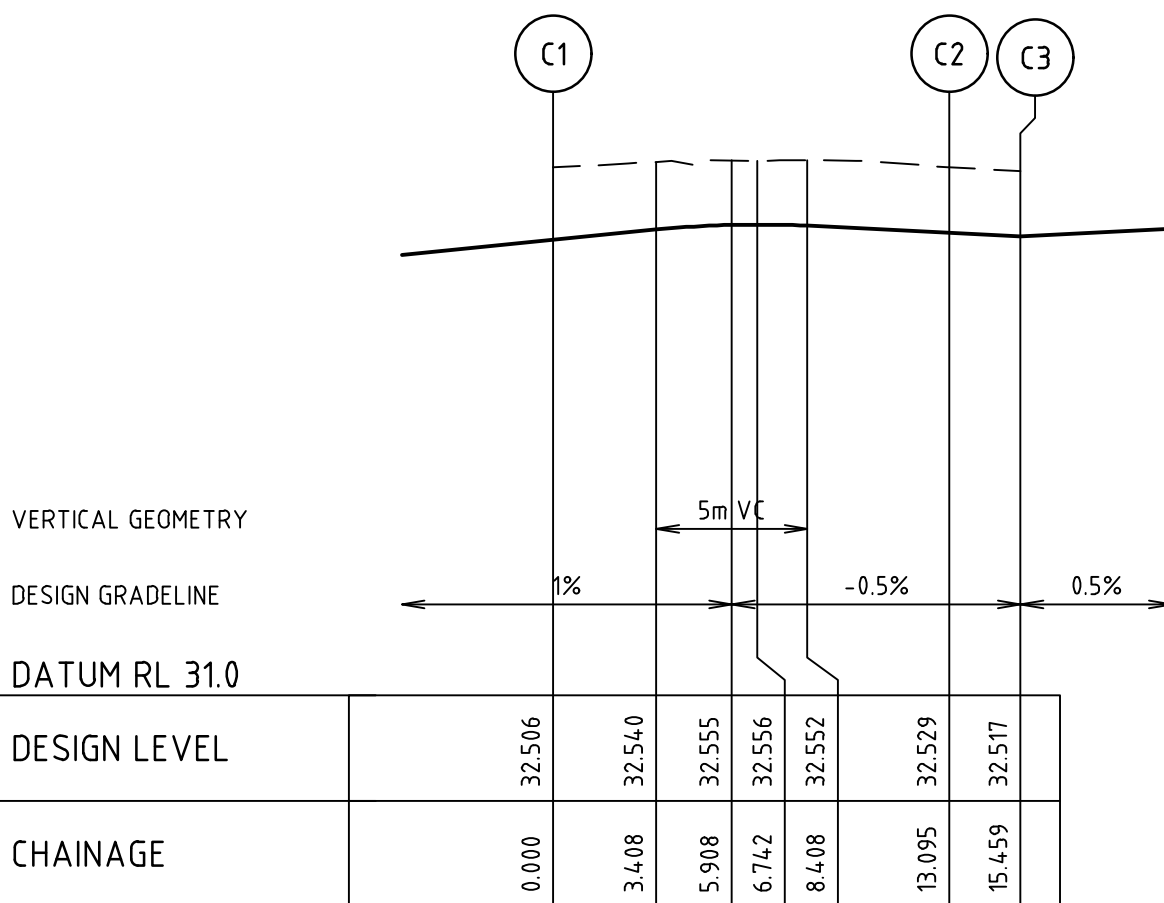
INTERSECTION DETAIL PLAN  
INTERSECTION OF HANSEL AVENUE, SALTMARSH ROAD AND KEEN STREET



ALIGNMENT A

ALIGNMENT A					
POINT NO EASTING		NORTHING	RL	CHAINAGE	
A1	359664.038	5785171.422	32.617	0.000	
A2	359664.653	5785167.701	32.530	3.771	
¼	359665.486	5785165.178	32.459	6.439	
½	359667.050	5785163.030	32.388	9.106	
¾	359669.194	5785161.462	32.335	11.774	
A3	359671.715	5785160.623	32.301	14.441	

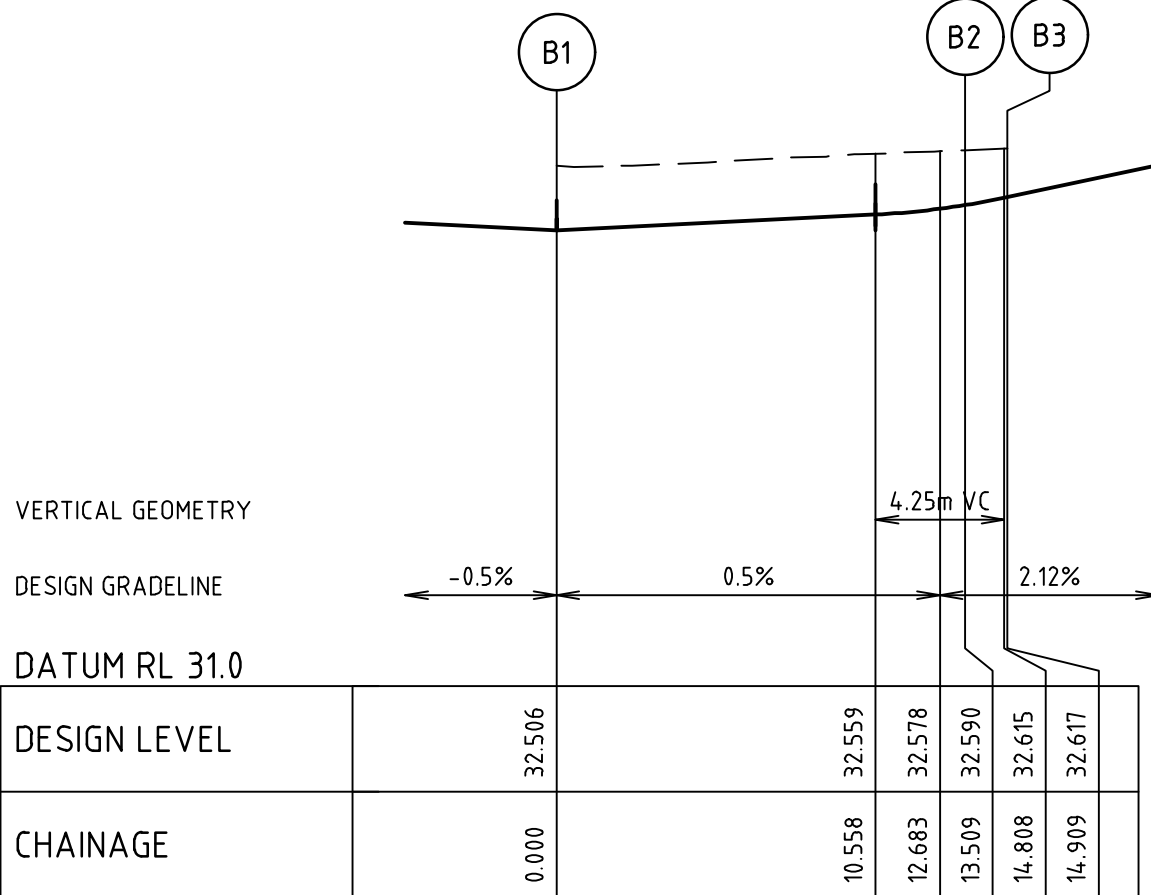
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A2-A3	8.600	10.670	9.999	1.602	0.410



ALIGNMENT C

ALIGNMENT C					
POINT NO EASTING		NORTHING		RL	CHAINAGE
C1	359651.415	5785153.117		32.506	0.000
¼	359648.363	5785151.989		32.538	3.274
½	359645.948	5785149.807		32.556	6.547
¾	359644.518	5785146.885		32.545	9.821
C2	359644.275	5785143.640		32.529	13.095
C3	359644.548	5785141.291		32.517	15.459

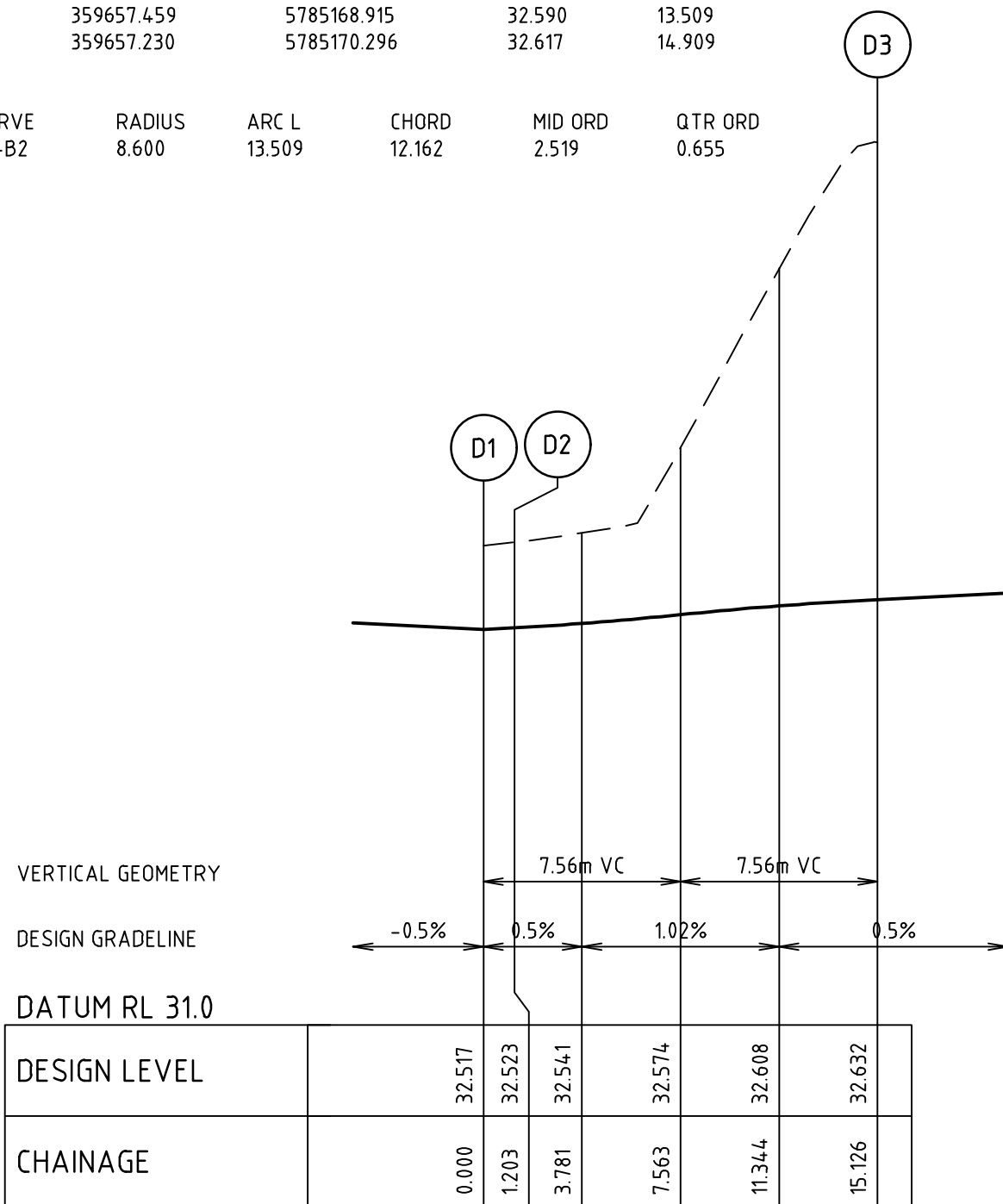
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.095	11.866	2.374	0.616



ALIGNMENT B

ALIGNMENT B					
POINT NO EASTING		NORTHING	RL	CHAINAGE	
B1	359650.377	5785159.027	32.506	0.000	
¼	359653.517	5785160.210	32.523	3.377	
½	359655.966	5785162.504	32.540	6.754	
¾	359657.350	5785165.561	32.557	10.132	
B2	359657.459	5785168.915	32.590	13.509	
B3	359657.230	5785170.296	32.617	14.909	

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	0.655



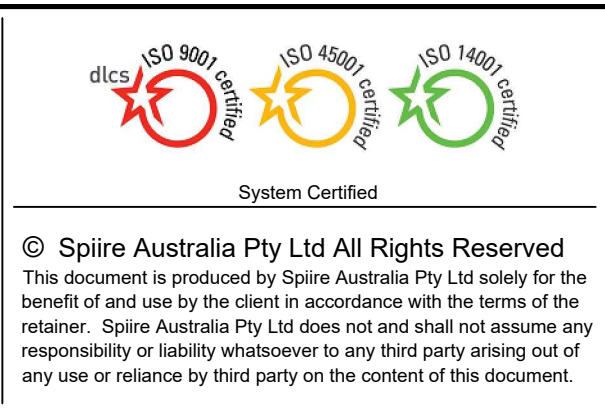
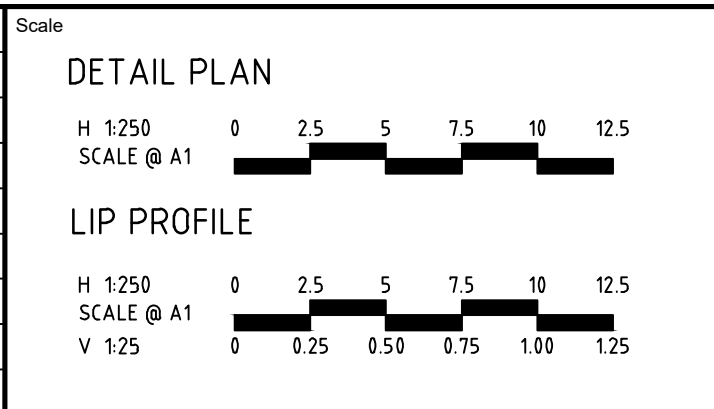
ALIGNMENT D

ALIGNMENT D

POINT NO	EASTING	NORTHING	RL	CHAINAGE
D1	359637.694	5785140.494	32.517	0.000
D2	359637.555	5785141.689	32.523	1.203
¼	359636.474	5785144.973	32.548	4.684
½	359634.187	5785147.566	32.580	8.164
¾	359631.064	5785149.048	32.610	11.645
D3	359627.610	5785149.181	32.632	15.126

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D2-D3	8.600	13.923	12.452	2.667	0.695

Rev	Amendments	Approved	Date
D	AMENDED ALL KERB RETURNS	S.M	13/07/21
C	AMENDED PARKING BAY AND ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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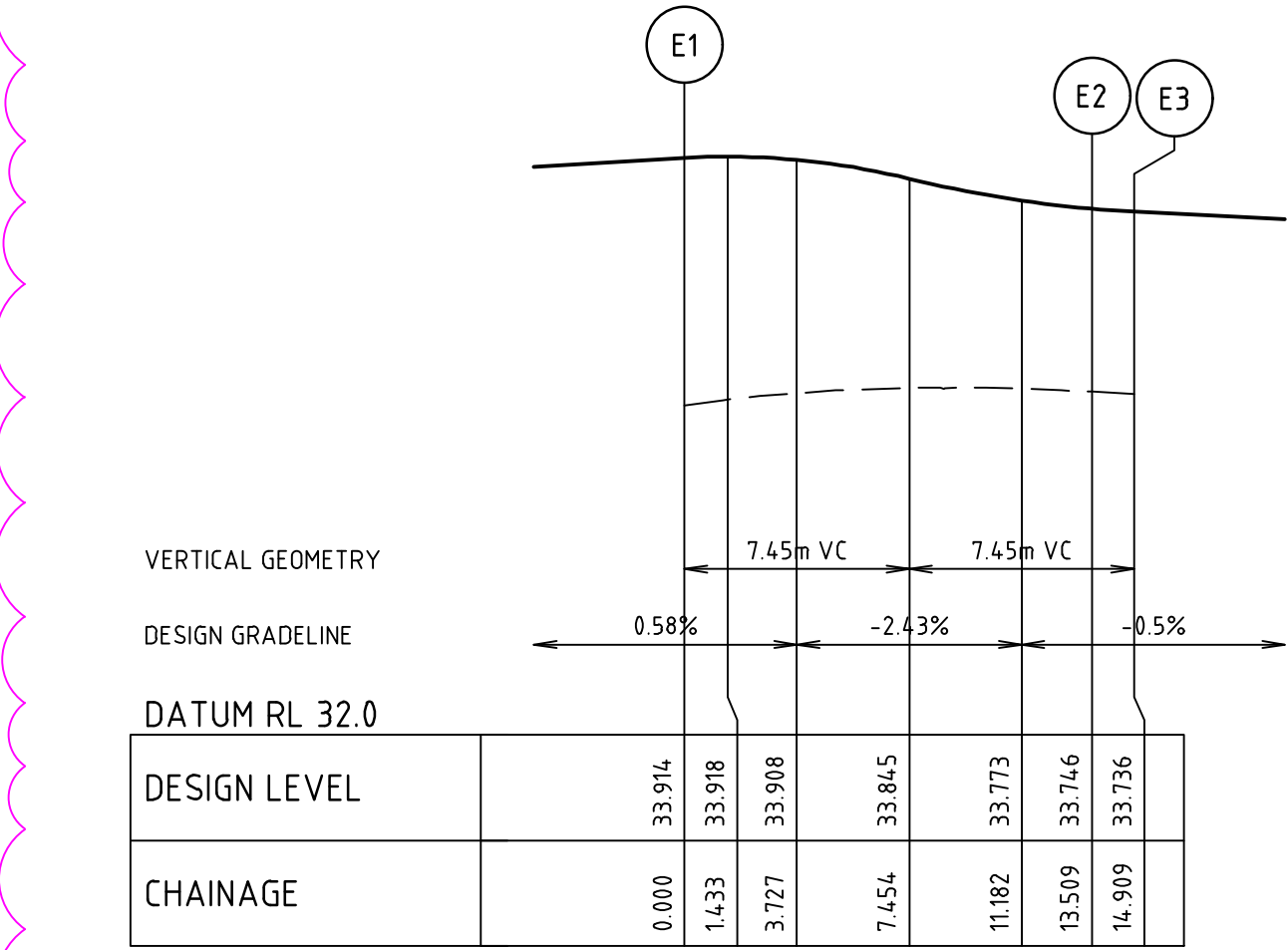
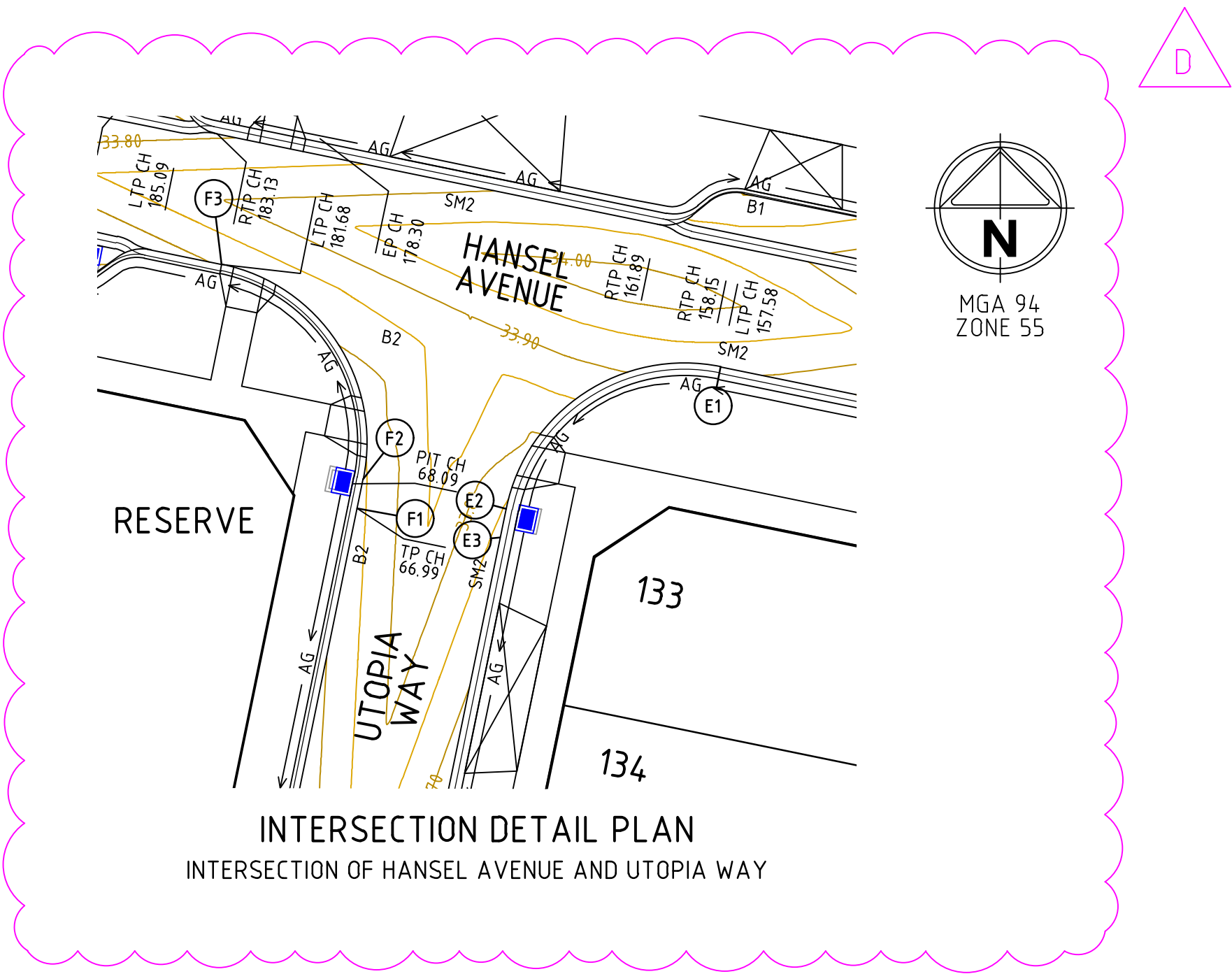
Designed  
M. WRIGHT  
Authorised  
S. MURPHY  
Checked  
B. IBBS  
Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 1  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No 308176CR500 Rev D



file name: 308176CR501.dwg, layout name: CR501, plotted by: Mitchell Wright, file location: \\spire\honda\308176\308176.dwg, plot date: 13/07/2021 11:03 AM, Sheet 16 of 27 Sheets

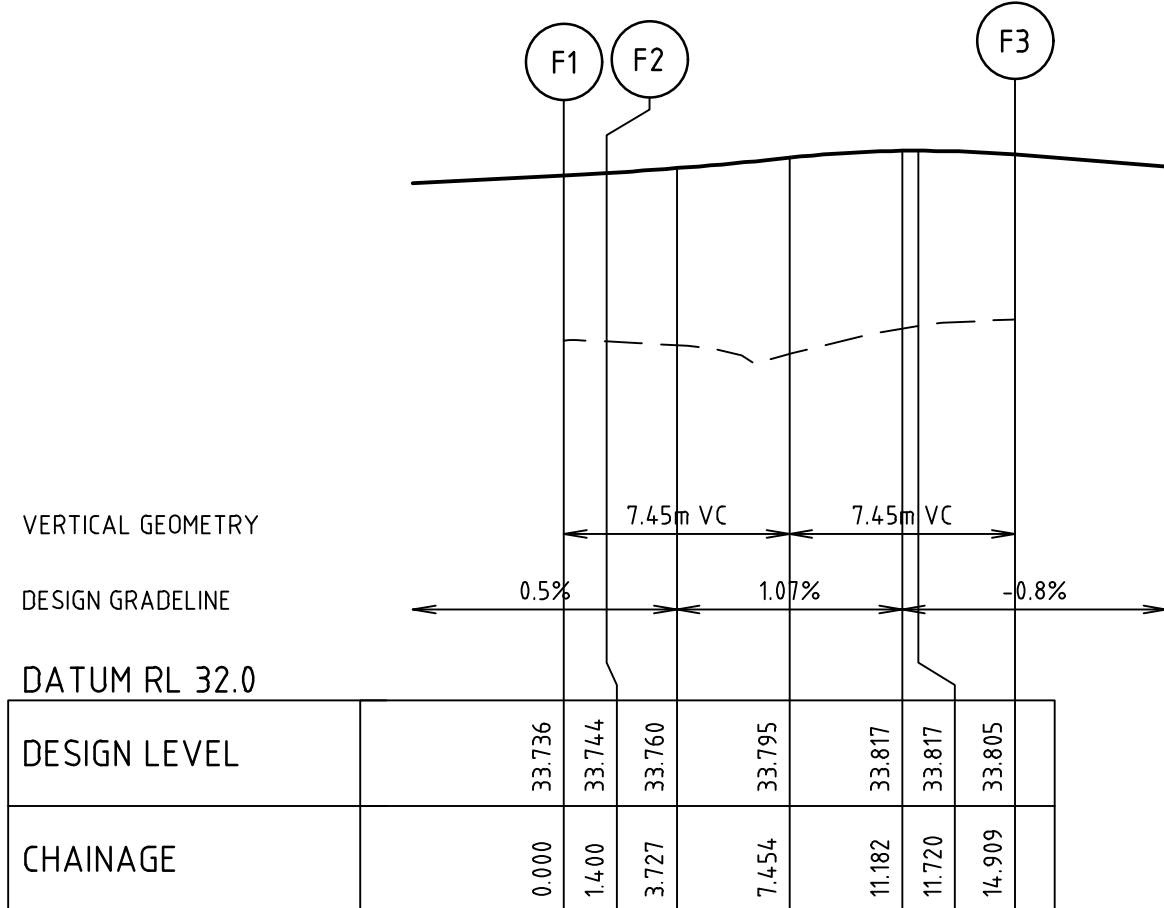


### ALIGNMENT E

#### ALIGNMENT E

POINT NO	EASTING	NORTHING	RL	CHAINAGE
E1	359528.061	5785165.269	33.914	0.000
E2	359517.908	5785158.573	33.746	13.509
E3	359517.626	5785157.202	33.736	14.909

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

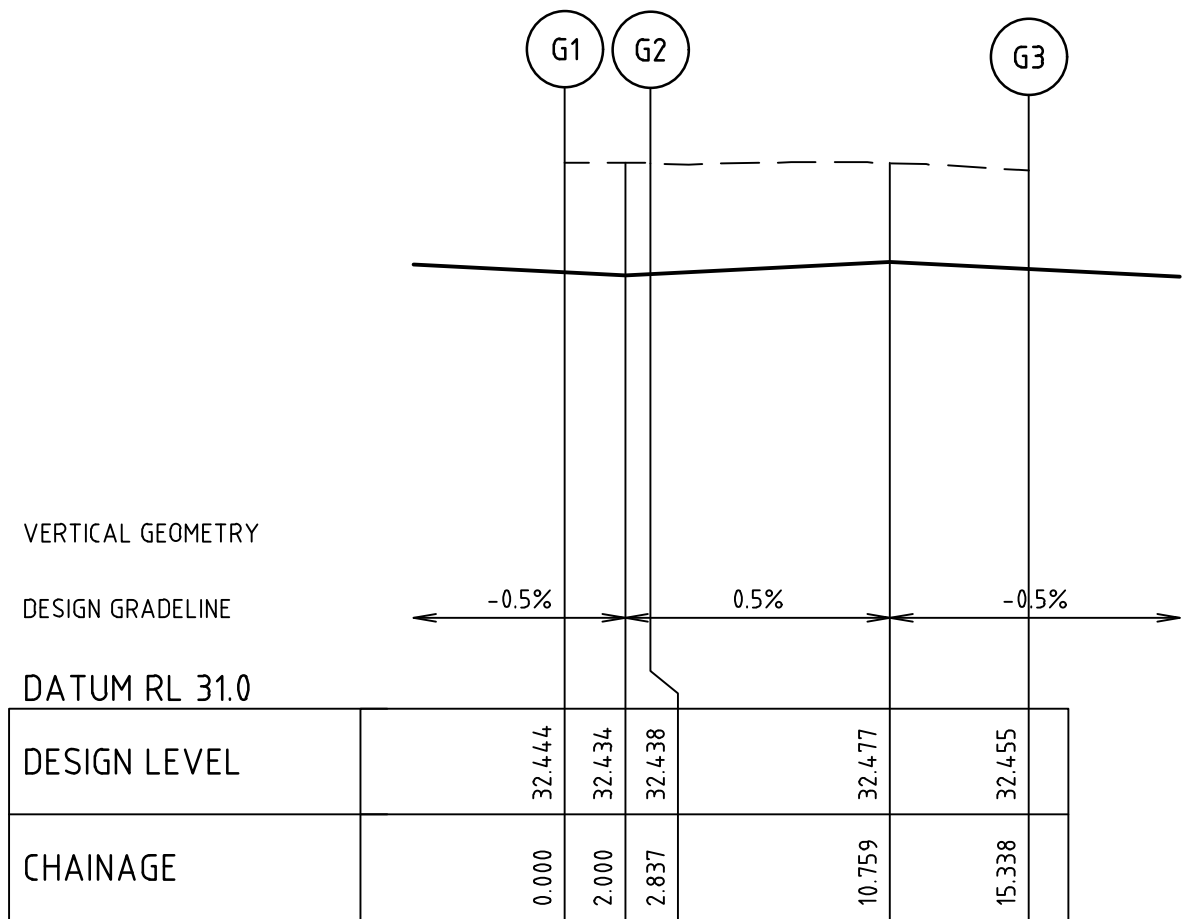
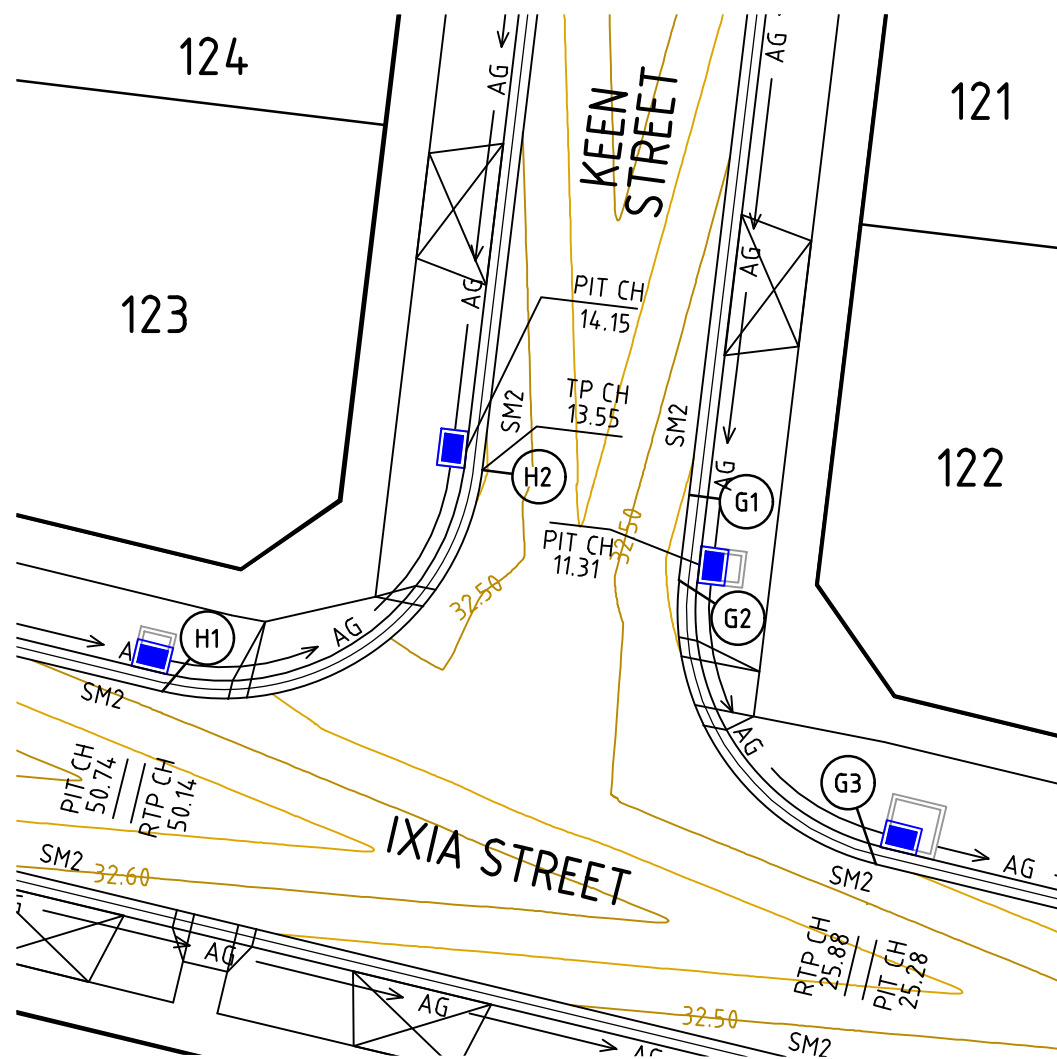


### ALIGNMENT F

#### ALIGNMENT F

POINT NO	EASTING	NORTHING	RL	CHAINAGE
F1	359510.867	5785158.589	33.736	0.000
F2	359511.149	5785159.960	33.744	1.400
F3	359504.453	5785170.113	33.805	14.909

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F2-F3	8.600	13.509	12.162	2.519	0.655

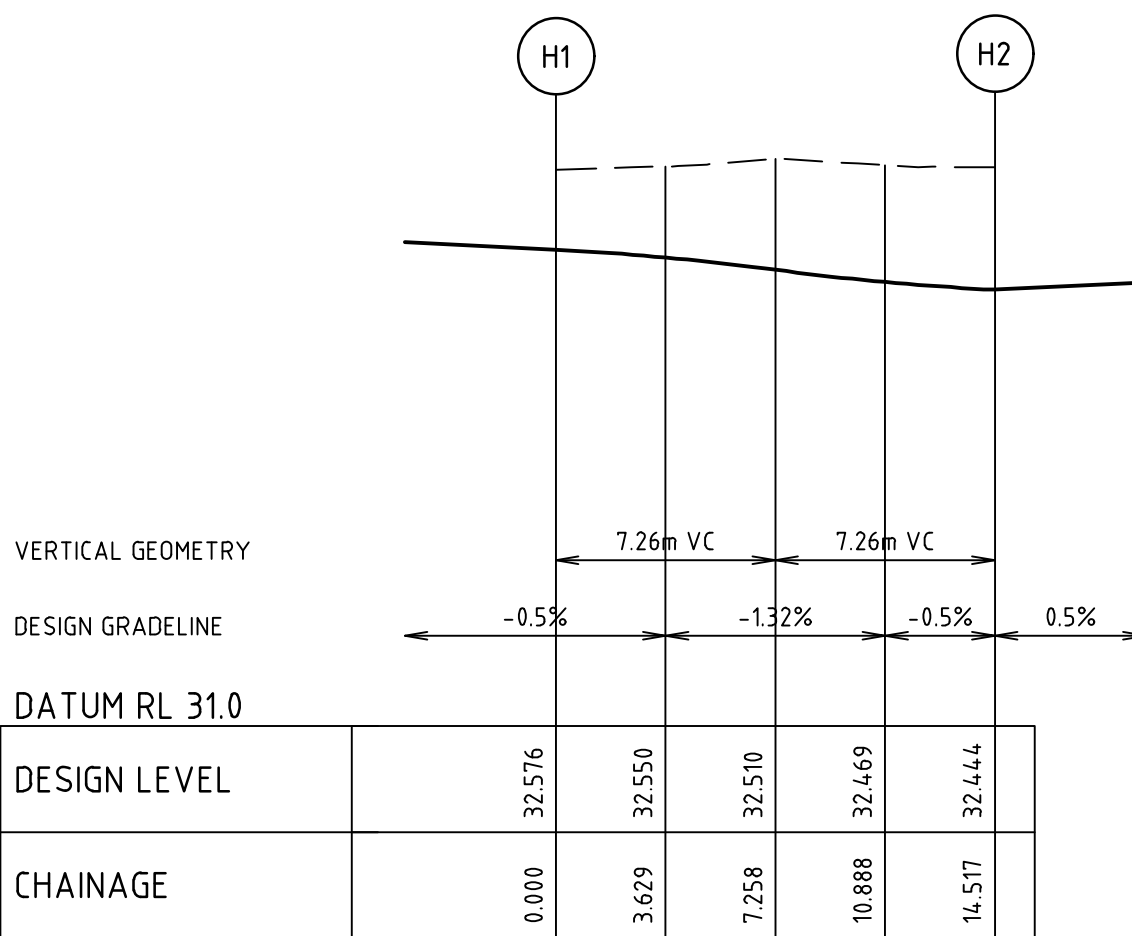


### ALIGNMENT G

#### ALIGNMENT G

POINT NO	EASTING	NORTHING	RL	CHAINAGE
G1	359640.930	5785072.624	32.444	0.000
G2	359640.589	5785069.807	32.438	2.837
G3	359647.105	5785060.417	32.455	15.338

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G2-G3	8.600	12.501	11.429	2.173	0.562

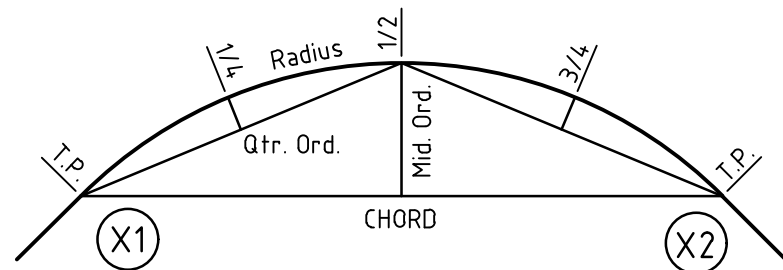


### ALIGNMENT H

#### ALIGNMENT H

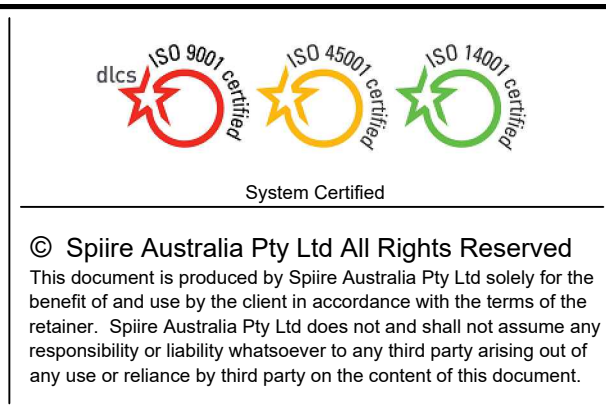
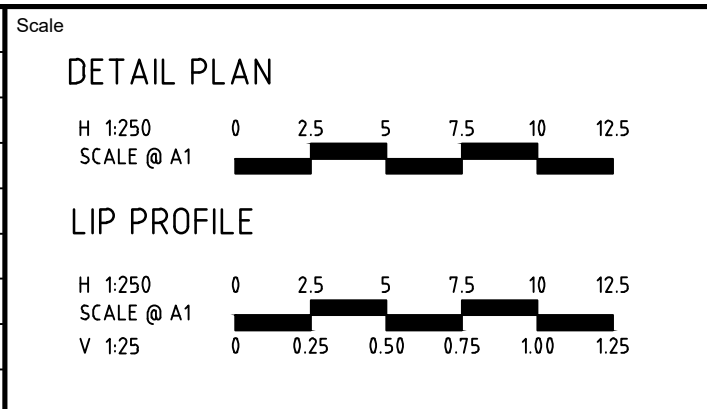
POINT NO	EASTING	NORTHING	RL	CHAINAGE
H1	359623.519	5785066.123	32.576	0.000
H2	359634.079	5785073.451	32.444	14.517

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
H1-H2	8.600	14.517	12.854	2.885	0.754



### KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
D	AMENDED KERB RETURNS E & F	S.M	13/07/21
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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S. MURPHY

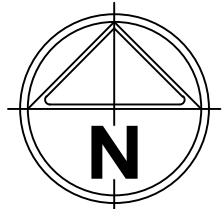
Checked  
B. IBBS  
Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 2  
CARDINIA SHIRE  
YOURLAND PTY LTD

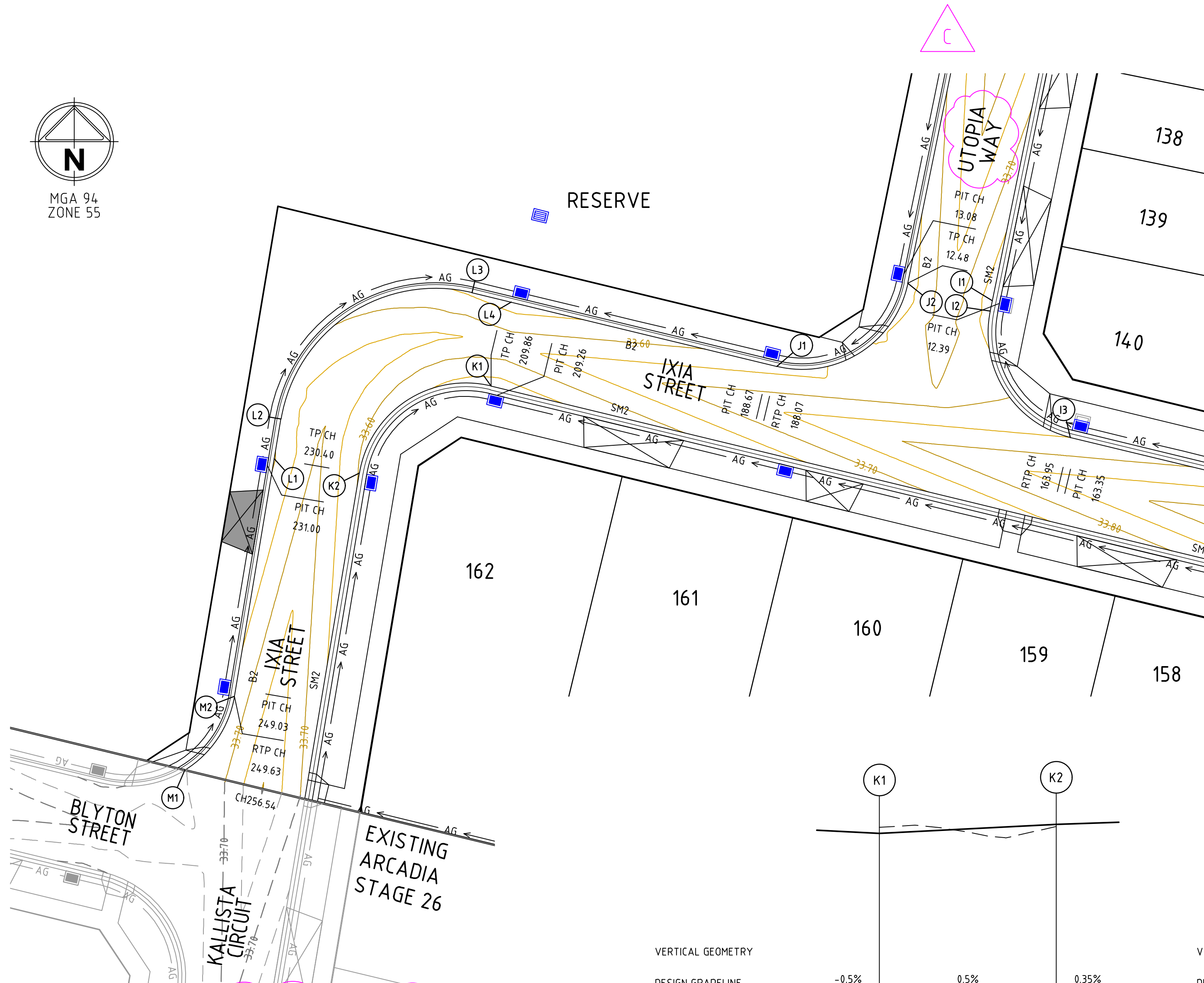
**PRELIMINARY** Drg No 308176CR501 Rev D



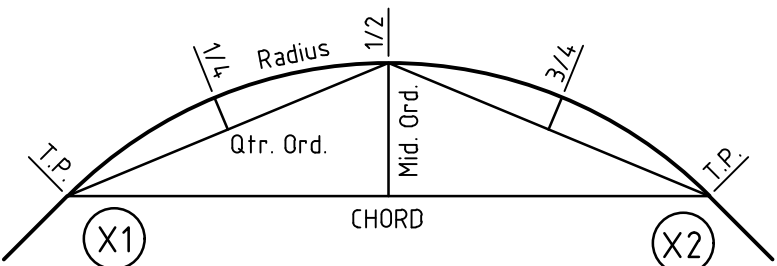
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MGA 94  
ZONE 55



INTERSECTION DETAIL PLAN  
INTERSECTION OF IXIA STREET AND UTOPIA WAY  
INTERSECTION OF IXIA STREET AND BLYTON STREET



KERB RETURN SETOUT DETAIL

RESERVE

162

161

160

159

158

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 32.0

DESIGN LEVEL	33.526	33.597
CHAINAGE	0.000	14.121

ALIGNMENT K

ALIGNMENT K

POINT NO	EASTING	NORTHING	RL	CHAINAGE
K1	359466.658	5785096.976	33.520	0.000
1/4	359463.154	5785097.089	33.538	3.530
1/2	359459.897	5785095.794	33.556	7.060
3/4	359457.426	5785093.307	33.573	10.590
K2	359456.154	5785090.040	33.556	14.121

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
K1-K2	8.600	14.121	12.587	2.739	0.714

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 32.0

DESIGN LEVEL	33.597	33.613	33.628	33.542	33.526
CHAINAGE	0.000	3.221	6.382	23.745	26.967

ALIGNMENT L

ALIGNMENT L

POINT NO	EASTING	NORTHING	RL	CHAINAGE
L1	359449.349	5785091.182	33.556	0.000
L2	359449.882	5785094.359	33.572	3.221
1/4	359451.732	5785099.107	33.598	8.352
1/2	359455.322	5785102.722	33.588	13.483
3/4	359460.057	5785104.604	33.562	18.614
L3	359465.149	5785104.440	33.537	23.745
L4	359468.280	5785103.682	33.520	26.967

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
L2-L3	12.500	20.524	18.295	3.981	1.038

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 32.0

DESIGN LEVEL	33.622	33.627	33.647	33.686	33.725	33.750
CHAINAGE	0.000	0.843	3.513	7.026	10.538	14.051

ALIGNMENT I

ALIGNMENT I

POINT NO	EASTING	NORTHING	RL	CHAINAGE
I1	359506.667	5785103.801	33.622	0.000
I2	359506.498	5785102.975	33.627	0.843
1/4	359506.464	5785099.693	33.653	4.145
1/2	359507.661	5785096.638	33.691	7.447
3/4	359509.916	5785094.253	33.727	10.749
I3	359512.900	5785092.887	33.750	14.051

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
I2-I3	8.600	13.208	11.948	2.413	0.626

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 32.0

DESIGN LEVEL	33.629	33.660	33.622
CHAINAGE	0.000	6.157	13.810

ALIGNMENT J

ALIGNMENT J

POINT NO	EASTING	NORTHING	RL	CHAINAGE
J1	359489.462	5785098.558	33.629	0.000
1/4	359492.888	5785098.432	33.647	3.452
1/2	359496.092	5785099.655	33.656	6.905
3/4	359498.563	5785102.033	33.639	10.357
J2	359499.908	5785105.188	33.622	13.810

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
J1-J2	8.600	13.810	12.373	2.626	0.684

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 32.0

DESIGN LEVEL	33.648	33.659	33.676	33.678	33.675	33.663
CHAINAGE	0.000	0.804	2.804	3.712	4.804	7.301

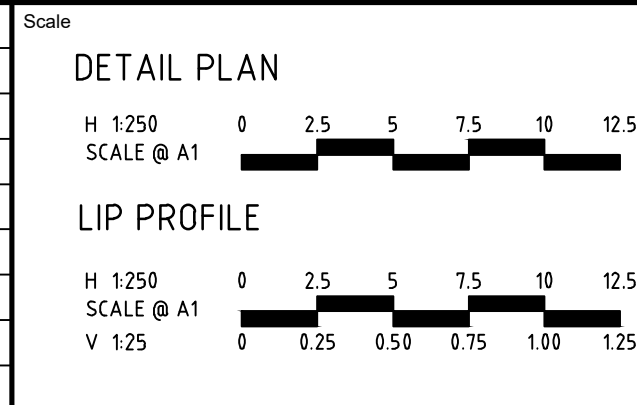
ALIGNMENT M

ALIGNMENT M

POINT NO	EASTING	NORTHING	RL	CHAINAGE
M1	359442.222	5785066.335	33.648	0.000
1/4	359443.659	5785067.455	33.667	1.825
1/2	359444.828	5785068.852	33.670	3.651
3/4	359445.677	5785070.464	33.662	5.476
M2	359446.167	5785072.219	33.652	7.301

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M1-M2	8.600	7.301	7.084	0.763	0.193

Rev	Amendments	Approved	Date
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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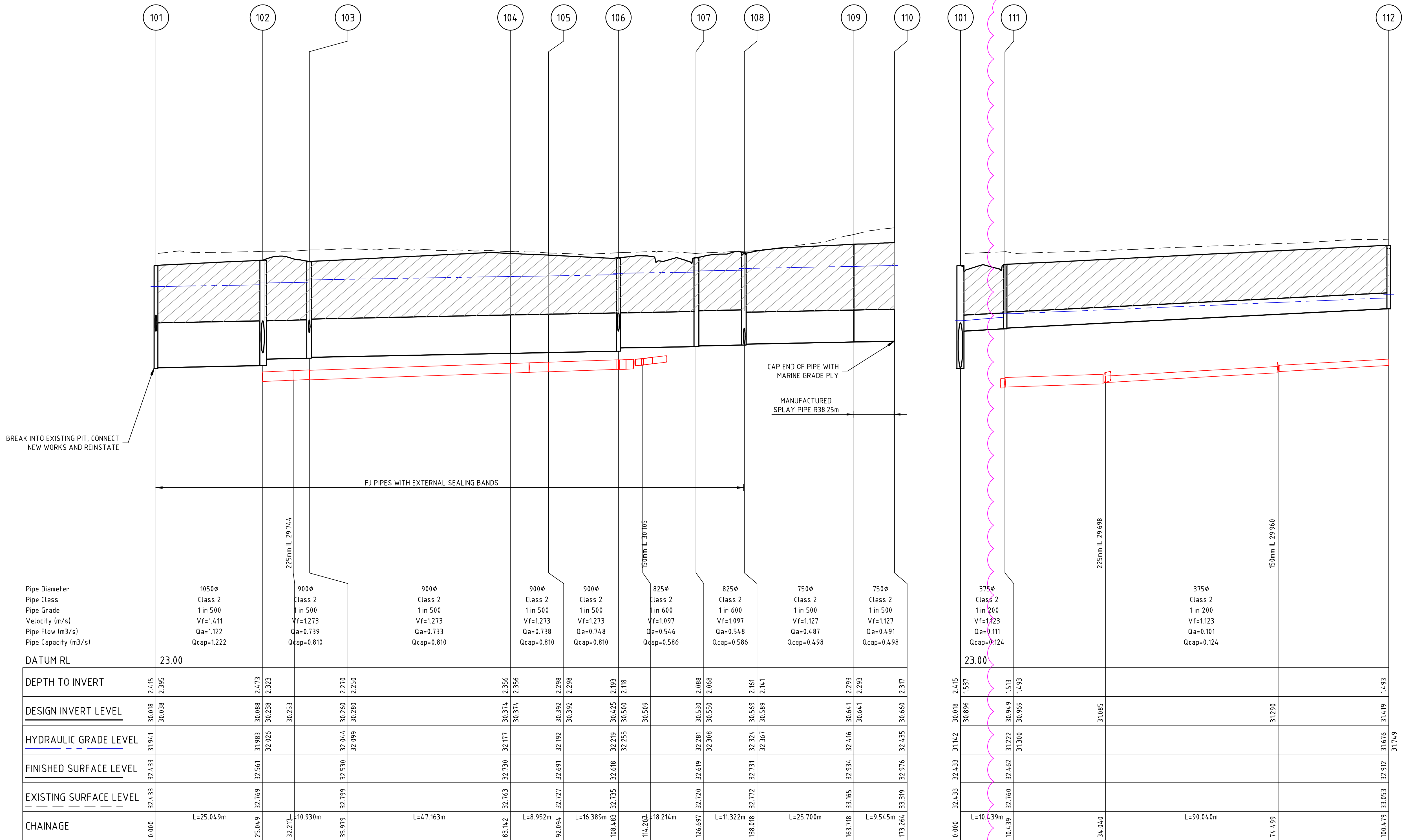
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M. WRIGHT  
Authorised  
S. MURPHY  
Checked  
B. IBBS  
Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
INTERSECTION DETAILS - SHEET 3  
CARDINIA SHIRE  
YOURLAND PTY LTD

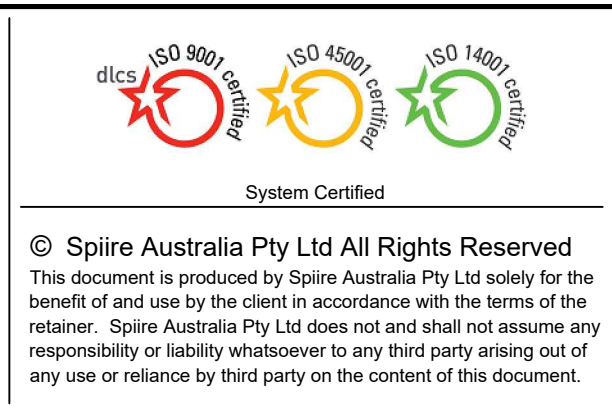
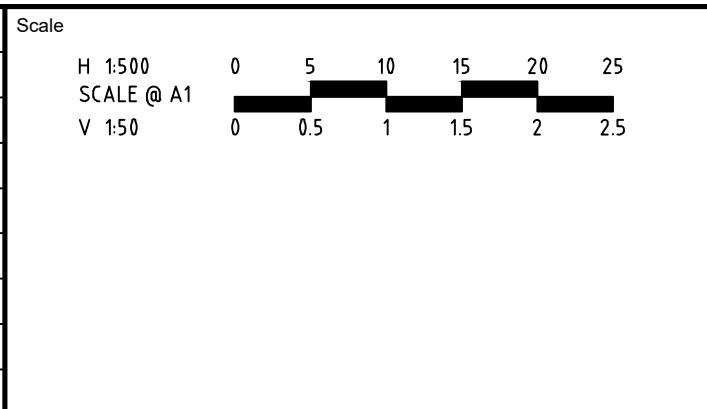
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Rev	Amendments	Approved	Date
D	AMENDED PIT 111 TO 112	S.M	13/07/21
C	ISSUED FOR APPROVAL	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 1  
CARDINIA SHIRE  
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**PRELIMINARY**

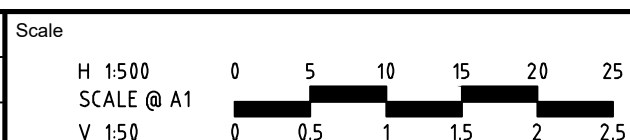
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**308176CR600**

Rev  
**D**





D	AMENDED PIT 112 TO 113. REMOVED PITs 114 & 115	S.M	13/07/21
C	ISSUED FOR APPROVAL	S.M	29/06/21
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Rev	Amendments	Approved	Date



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Checked  
B. IBBS

Date  
13/07/21

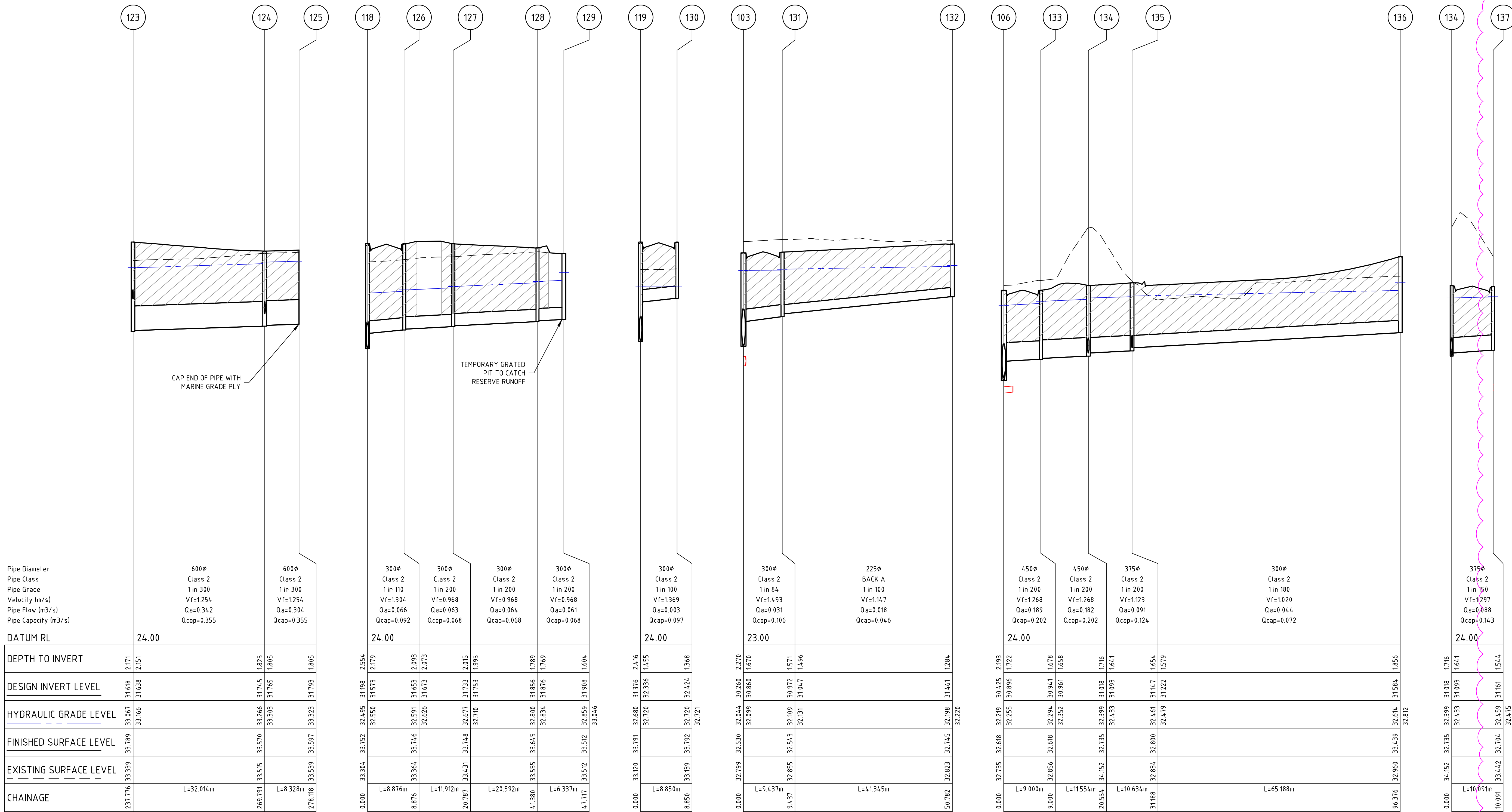
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STAGE 1  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 2  
CARDINIA SHIRE  
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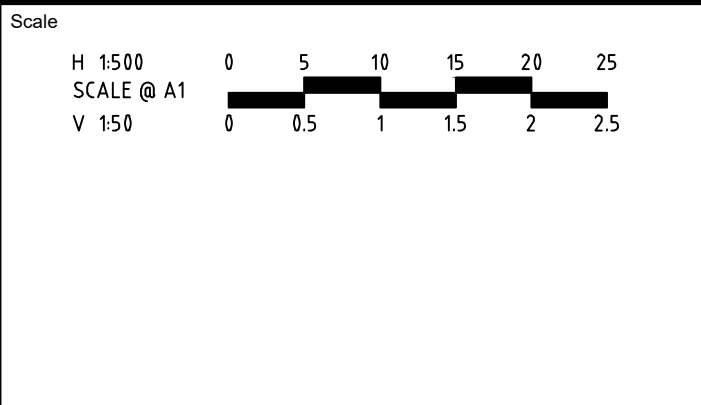
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Rev	Amendments	Approved	Date
C	AMENDED PIT 137	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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Authorised S. MURPHY	Date 13/07/21

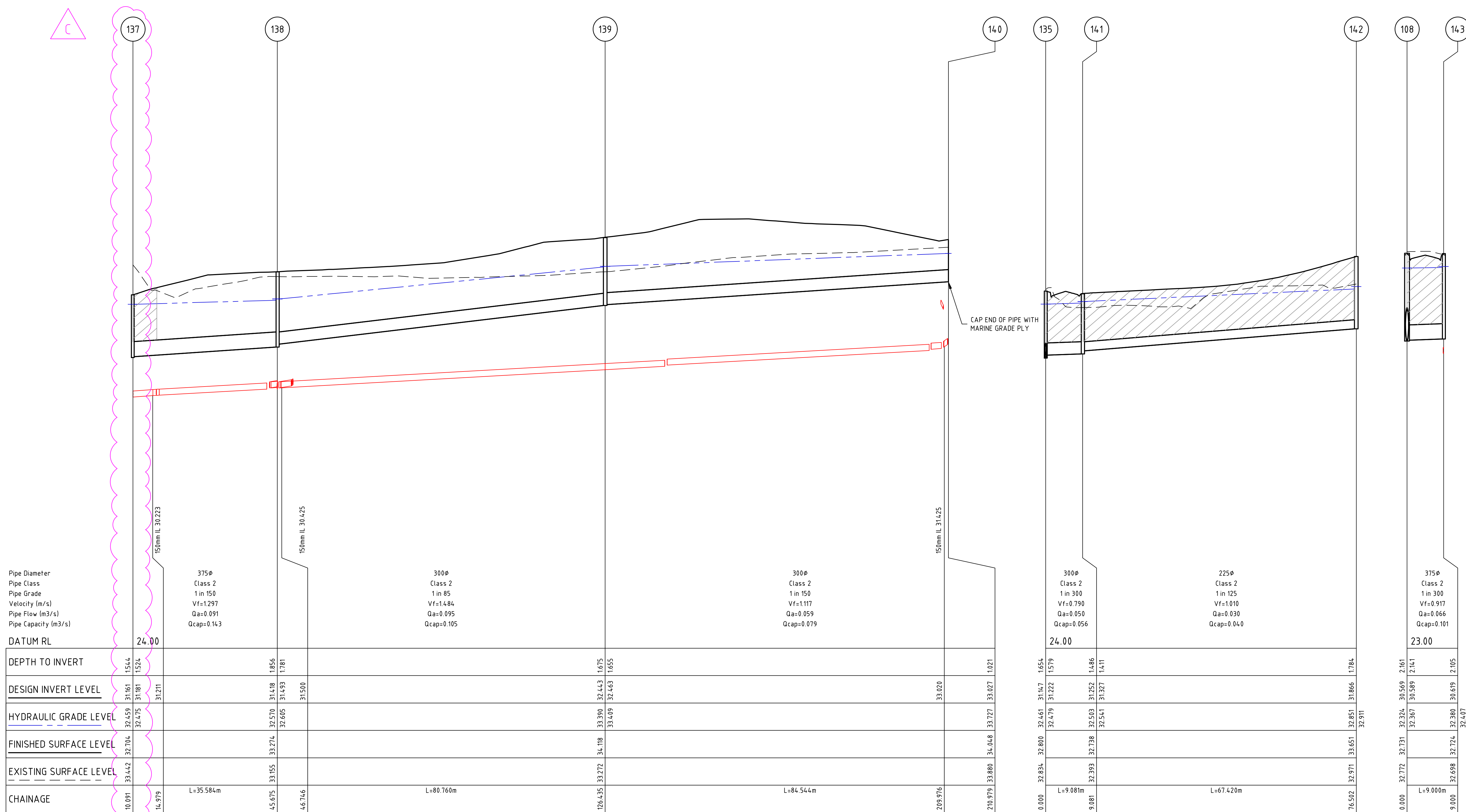
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STAGE 1  
ROAD AND DRAINAGE  
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CARDINIA SHIRE  
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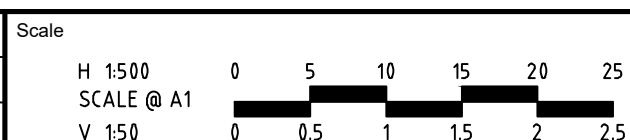




CRUSHED ROCK BACKFILL



C	AMENDED PIT 137	S.M	29/03/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21
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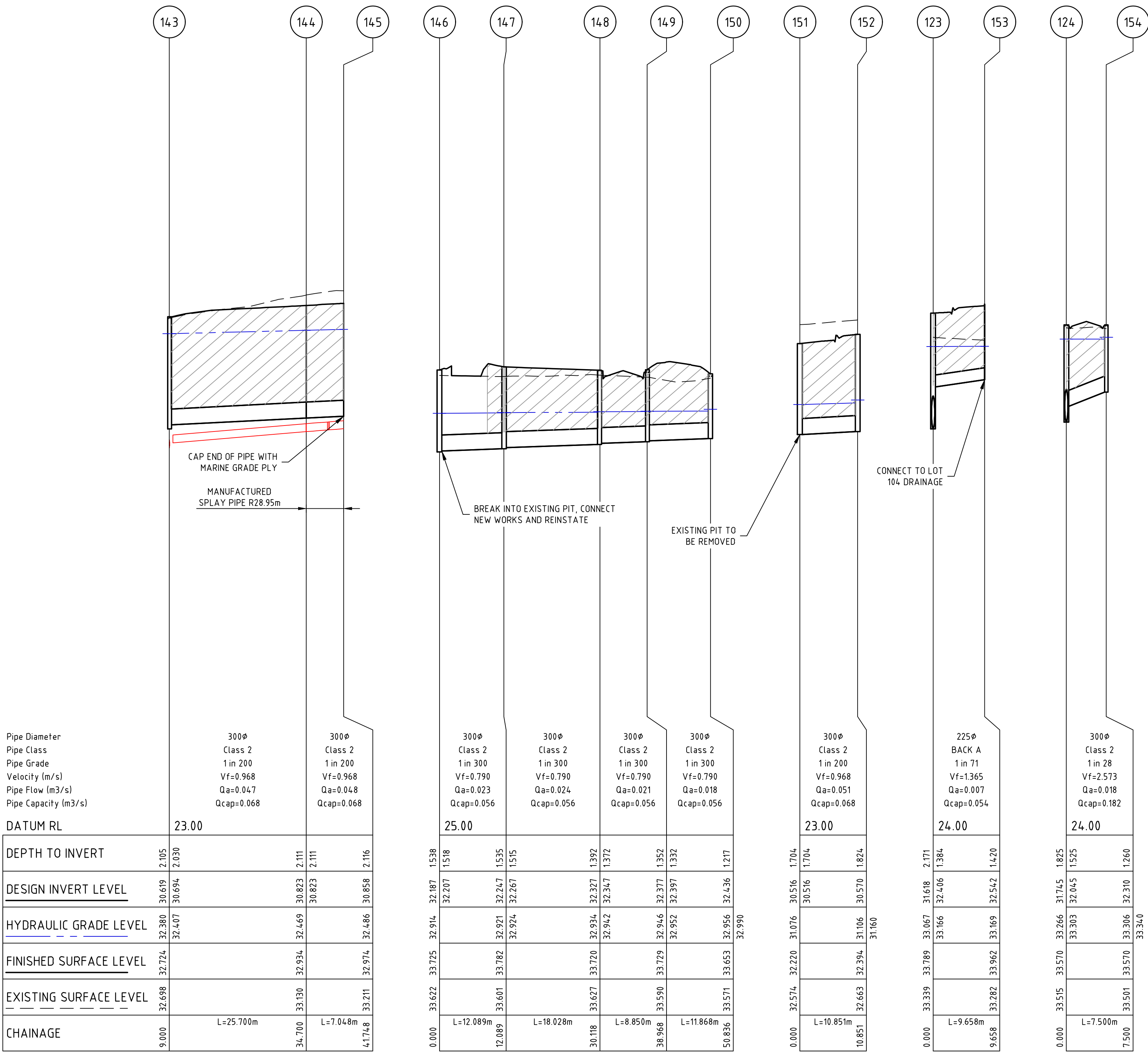
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STAGE 1  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 4  
CARDINIA SHIRE  
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**PRELIMINARY** Drg No **308176CR603**

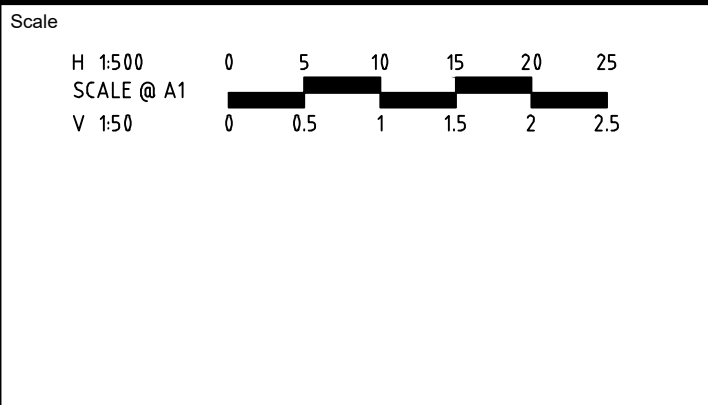
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Rev	Amendments	Approved	Date
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B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21



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STAGE 1  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - SHEET 5  
CARDINIA SHIRE  
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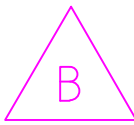
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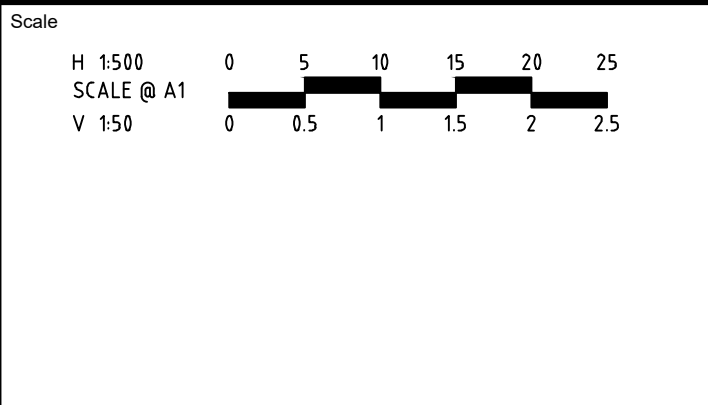
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DRAINAGE PIT SCHEDULE										
PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	RL	DEPTH	
101	EXISTING	1500	900	1050	30.038			32.433	2.415	BREAK INTO EXISTING PIT, CONNECT NEW WORKS AND REINSTATE PIT
102	JUNCTION PIT	1350	1350	900	30.238	1050	30.088	32.561	2.473	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
				750	30.388					
103	GRATED SIDE ENTRY PIT	1200	900	900	30.280	900	30.260	32.530	2.270	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				300	30.860					
104	TANGENT POINT	0	0	900	30.374	900	30.374	32.730	2.356	
105	TANGENT POINT	0	0	900	30.392	900	30.392	32.691	2.298	
106	GRATED SIDE ENTRY PIT	1200	900	825	30.500	900	30.425	32.618	2.193	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				450	30.896					
107	GRATED SIDE ENTRY PIT	900	1200	825	30.550	825	30.530	32.619	2.088	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
108	GRATED SIDE ENTRY PIT	1200	900	750	30.589	825	30.569	32.731	2.161	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				375	30.589					
109	TANGENT POINT	0	0	750	30.641	750	30.641	32.934	2.293	
110	ENDPIPE	0	0			750	30.660	32.976	2.317	CAP END OF PIPE WITH MARINE GRADE PLY
101	EXISTING	1500	900	375	30.896			32.433	2.415	
111	GRATED SIDE ENTRY PIT	600	900	375	30.969	375	30.949	32.462	1.513	REFER EDCM 603
112	GRATED SIDE ENTRY PIT	600	900	300	31.494	375	31.419	32.912	1.493	REFER EDCM 603
113	JUNCTION PIT	600	900			300	32.352	33.772	1.420	REFER EDCM 605
116	GRATED SIDE ENTRY PIT	1050	900	675	30.514	750	30.439	32.688	2.249	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
117	JUNCTION PIT	1050	900	675	31.165	675	31.145	33.860	2.715	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
118	GRATED SIDE ENTRY PIT	750	900	600	31.218	675	31.198	33.752	2.554	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				300	31.573					
119	GRATED SIDE ENTRY PIT	750	900	600	31.396	600	31.376	33.791	2.416	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				300	32.336					
120	JUNCTION PIT	750	900	600	31.470	600	31.450	33.882	2.432	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
121	JUNCTION PIT	900	900	600	31.519	600	31.499	33.872	2.373	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
122	JUNCTION PIT	900	900	600	31.593	600	31.573	33.786	2.213	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
123	JUNCTION PIT	900	900	600	31.638	600	31.618	33.789	2.171	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 607
				225	32.406					
124	DOUBLE SIDE ENTRY PIT	900	900	600	31.765	600	31.745	33.570	1.825	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 604 & 607
				300	32.045					
125	ENDPIPE	0	0			600	31.793	33.597	1.805	CAP END OF PIPE WITH MARINE GRADE PLY
126	GRATED SIDE ENTRY PIT	600	900	300	31.673	300	31.653	33.746	2.093	REFER EDCM 601
127	JUNCTION PIT	600	900	300	31.753	300	31.733	33.748	2.015	REFER EDCM 605
128	DOUBLE SIDE ENTRY PIT	600	900	300	31.876	300	31.856	33.645	1.789	REFER EDCM 602
129	GRATED JUNCTION PIT	600	900			300	31.908	33.512	1.604	TEMPORARY PIT. REFER EDCM 605 W/ CLASS B GRATED LID
130	GRATED SIDE ENTRY PIT	600	900			300	32.424	33.792	1.368	REFER EDCM 601
131	GRATED SIDE ENTRY PIT	600	900	225	31.047	300	30.972	32.543	1.571	REFER EDCM 603
132	JUNCTION PIT	600	900			225	31.461	32.745	1.284	REFER EDCM 605
133	GRATED SIDE ENTRY PIT	600	900	450	30.961	450	30.941	32.618	1.678	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
134	GRATED SIDE ENTRY PIT	600	900	375	31.093	450	31.018	32.735	1.716	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 603 & 607
				375	31.093					
135	JUNCTION PIT	600	900	300	31.222	375	31.147	32.800	1.654	REFER EDCM 605
				300	31.222					
136	GRATED SIDE ENTRY PIT	600	900			300	31.584	33.439	1.856	REFER EDCM 603
137	JUNCTION PIT	600	900	375	31.181	375	31.161	32.704	1.544	REFER EDCM 605
138	JUNCTION PIT	600	900	300	31.493	375	31.418	33.274	1.856	REFER EDCM 605
139	JUNCTION PIT	600	900	300	32.463	300	32.443	34.118	1.675	REFER EDCM 605
140	ENDPIPE	0	0			300	33.027	34.048	1.021	CAP END OF PIPE WTH MARINE GRADE PLY
141	GRATED SIDE ENTRY PIT	600	900	225	31.327	300	31.252	32.738	1.486	REFER EDCM 603
142	JUNCTION PIT	600	900			225	31.866	33.651	1.784	REFER EDCM 605
143	GRATED SIDE ENTRY PIT	600	900	300	30.694	375	30.619	32.724	2.105	REFER EDCM 603
144	TANGENT POINT	0	0	300	30.823	300	30.823	32.934	2.111	
145	ENDPIPE	0	0			300	30.858	32.974	2.116	CAP END OF PIPE WITH MARINE GRADE PLY
146	EXISTING	600	900	300	32.207			33.725	1.538	BREAK INTO EXISTING PIT, CONNECT NEW WORKS AND REINSTATE PIT
147	JUNCTION PIT	600	900	300	32.267	300	32.247	33.782	1.535	REFER EDCM 605
148	GRATED SIDE ENTRY PIT	600	900	300	32.347	300	32.327	33.720	1.392	REFER EDCM 601
149	GRATED SIDE ENTRY PIT	600	900	300	32.397	300	32.377	33.729	1.352	REFER EDCM 603
150	DOUBLE SIDE ENTRY PIT	600	900			300	32.436	33.653	1.217	REFER EDCM 604
151	EXISTING	600	900	300	30.516			32.220	1.704	REMOVE EXISTING PIT
152	JUNCTION PIT	600	900			300	30.570	32.394	1.824	AS PER EDCM 605
153	ENDPIPE	0	0			225	32.542	33.962	1.420	CONNECT TO LOT 104 DRAINAGE
154	DOUBLE SIDE ENTRY PIT	600	900			300	32.310	33.570	1.260	HAUNCHED W/ 600 X 900 COVER. REFER EDCM 604 & 607

NOTE: WHERE PIT DEFLECTION ANGLE IS FROM 50°-90°, PROVIDE DEFLECTOR IN PIT FLOOR.



B	AMENDED PIT SCHEDULE	S.M	13/07/21	
A	ISSUED FOR APPROVAL	S.M	29/06/21	
Rev	Amendments	Approved	Date	



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Designed M. WRIGHT	Checked B. IBBS
Authorised S. MURPHY	Date 13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
DRAINAGE LONG SECTIONS - PIT SCHEDULE  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY**

Drg No  
**308176CR605**

Rev  
**B**



DESIGN PAVEMENT PROFILE

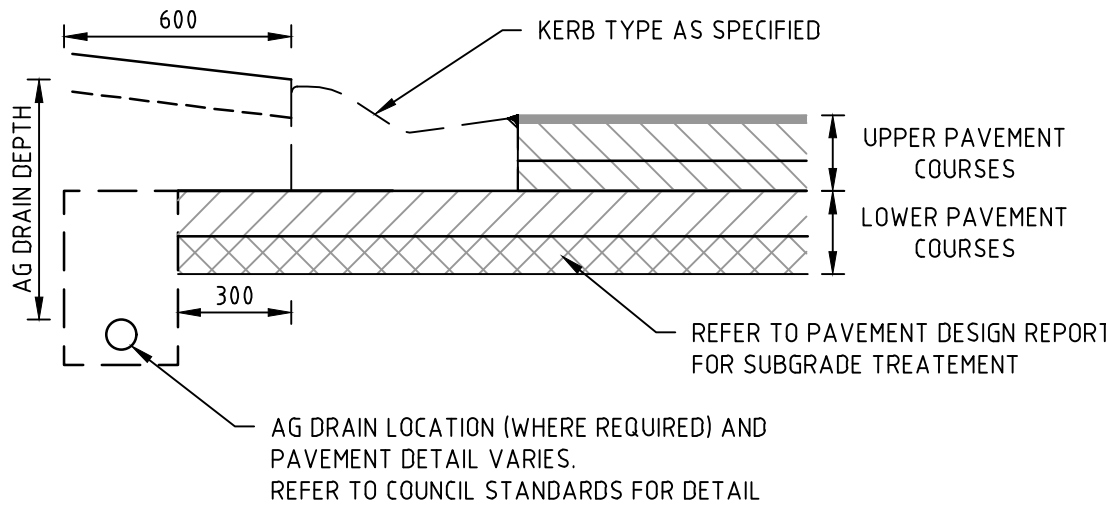
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	
		TYPE A* (ACCESS STREET Level 2)	TYPE B* (ACCESS STREET Level 1)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	-	30
ASPHALT BASE COURSE	VICROADS SIZE 14 TYPE N CLASS C170 BINDER	40	-
	VICROADS SIZE 10 TYPE N CLASS C170 BINDER	-	30
	VICROADS SIZE 14 TYPE TYPE HP CLASS A10E BINDER	40	-
BITUMINOUS PRIME	NOMINAL	NOMINAL	NOMINAL
BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	110	130
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100	100
LOWER SUBBASE	VICROADS CLASS 4 CRUSHED ROCK OR BETTER, CLASS CC3 CRUSHED CONCRETE OR BETTER	240	160
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 3.5%		
TOTAL PAVEMENT DEPTH		530	450

\* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
HANSEL AVENUE	A
IXIA STREET (17.0m)	B
IXIA STREET (16.0m)	B
IXIA STREET (LOTS 161-162) (14.5m)	B
KEEN STREET	B
UTOPIA WAY	B
SALTMARSH ROAD	B

GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- 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.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE  
REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS

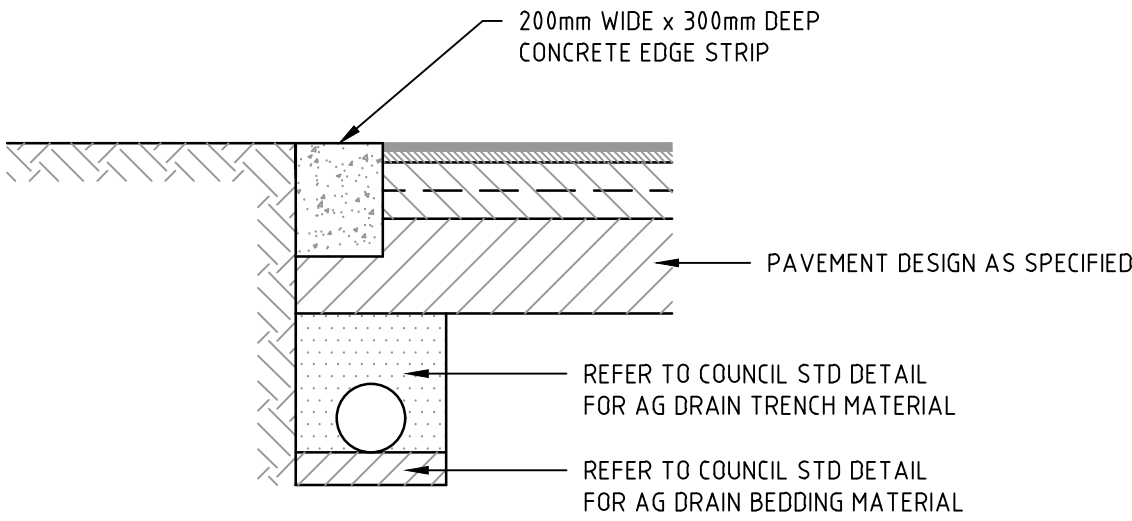
PAVEMENT DETAILS

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

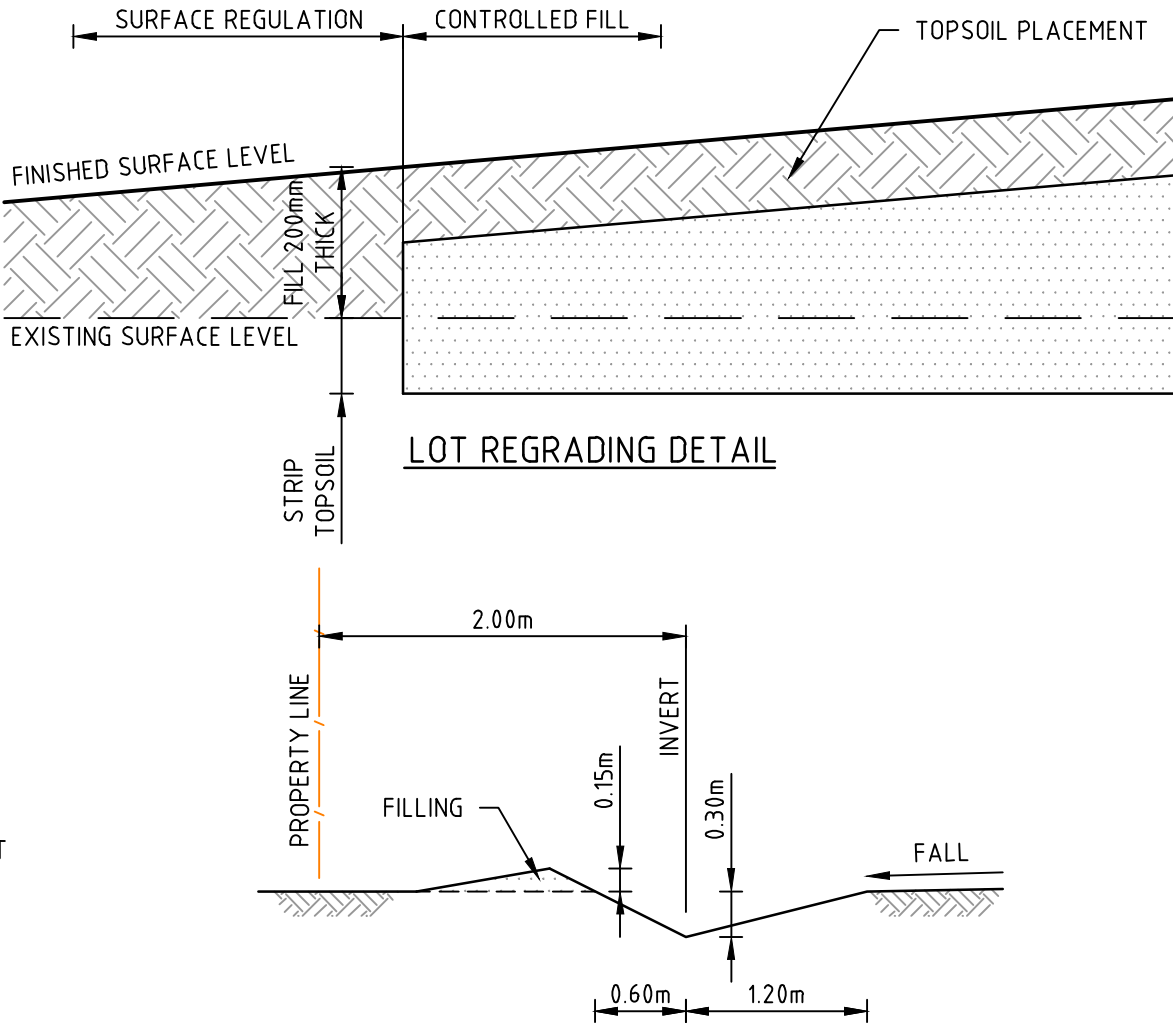
THE DESIGN HAS BEEN EXTRACTED FROM THE LOT 2 45-51 RIX ROAD, OFFICER - GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN REPORT ON "GEOTECHNICAL INVESTIGATION FOR OFFICER CENTRAL" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

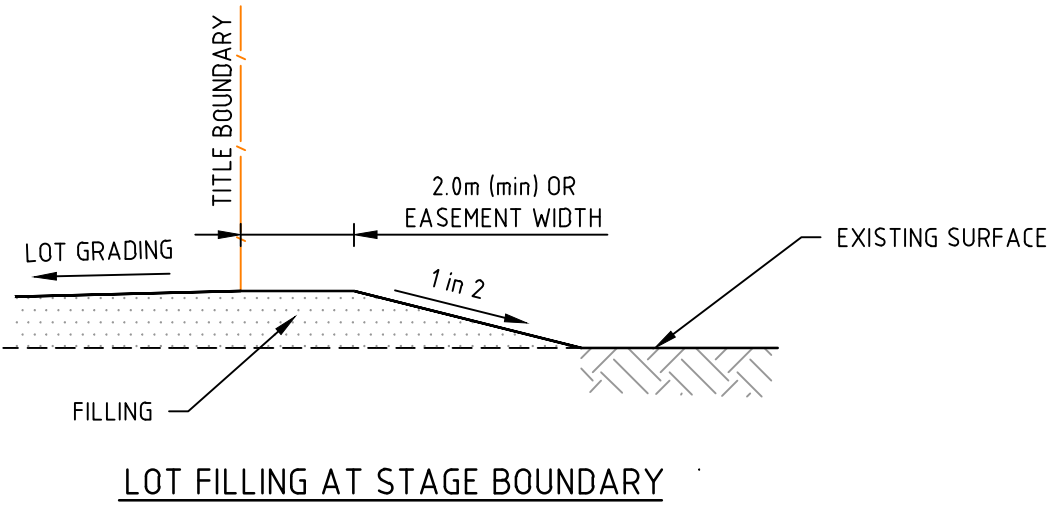
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY AND COPIED TO SPIIRE.



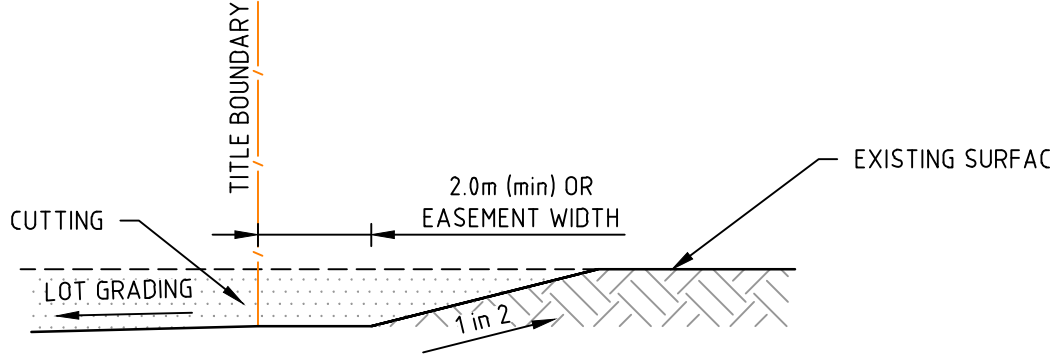
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



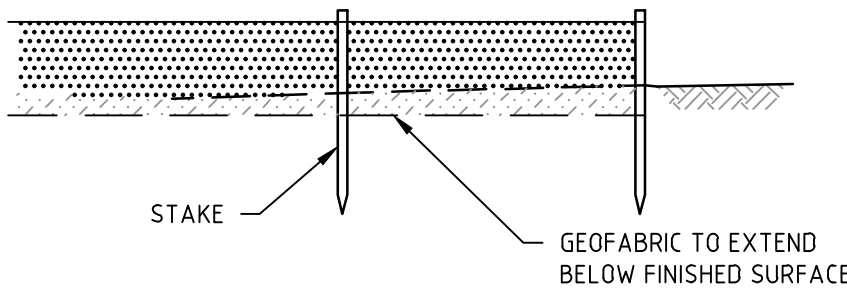
TYPICAL CATCH DRAIN SECTION



LOT FILLING AT STAGE BOUNDARY



LOT EXCAVATION AT STAGE BOUNDARY



SILT CONTROL FOR LOTS  
GEOFABRIC SILT FENCE

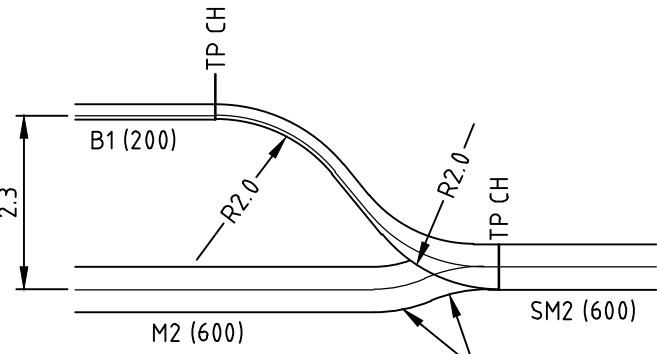
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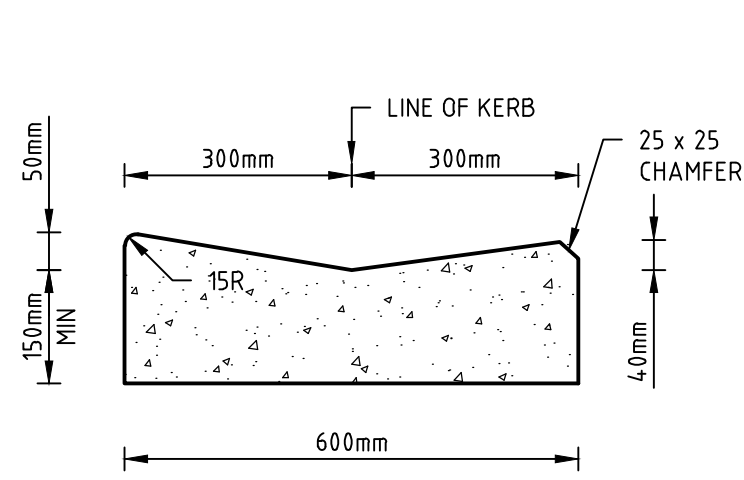
ACCESS STREET LEVEL 2 (530mm)  
ACCESS STREET LEVEL 1 (450mm)

PAVEMENT PLAN

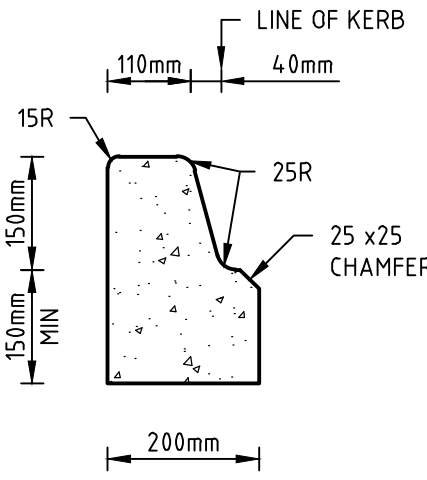
H 1:1000  
SCALE @ A1



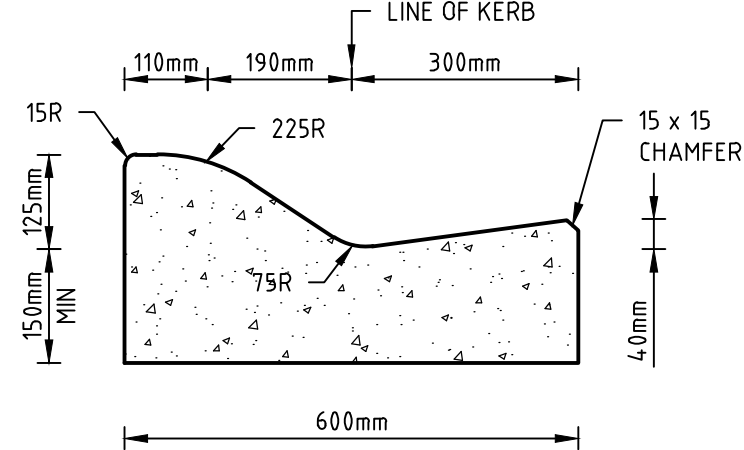
PARKING BAY SETOUT



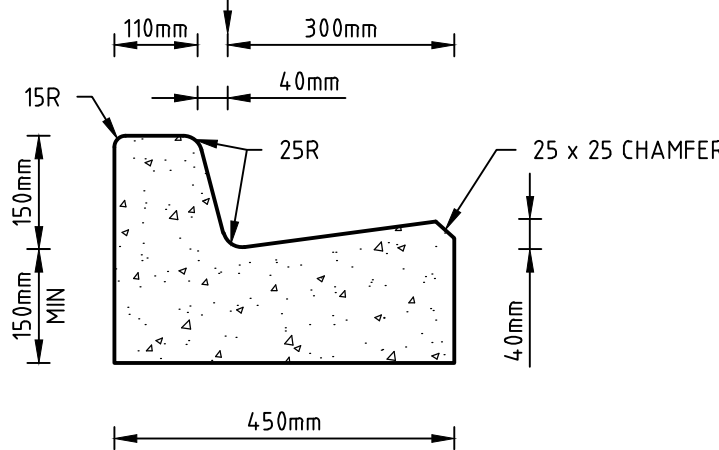
M2



B1



SM2

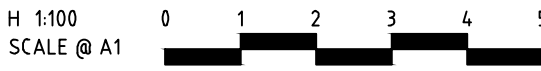


B2

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDMC 301

H 1:100  
SCALE @ A1



Rev	Amendments	Approved	Date
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21

Scale



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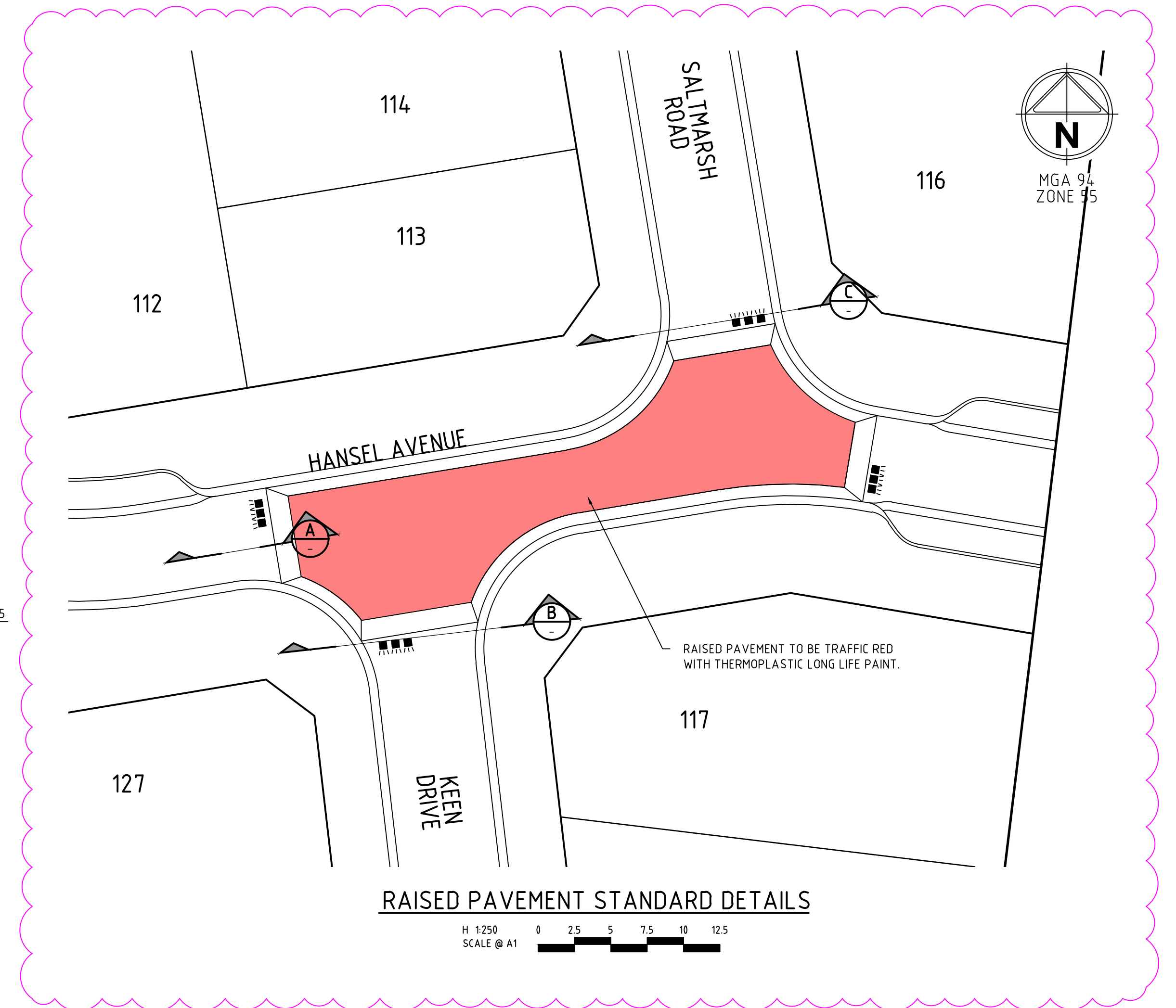
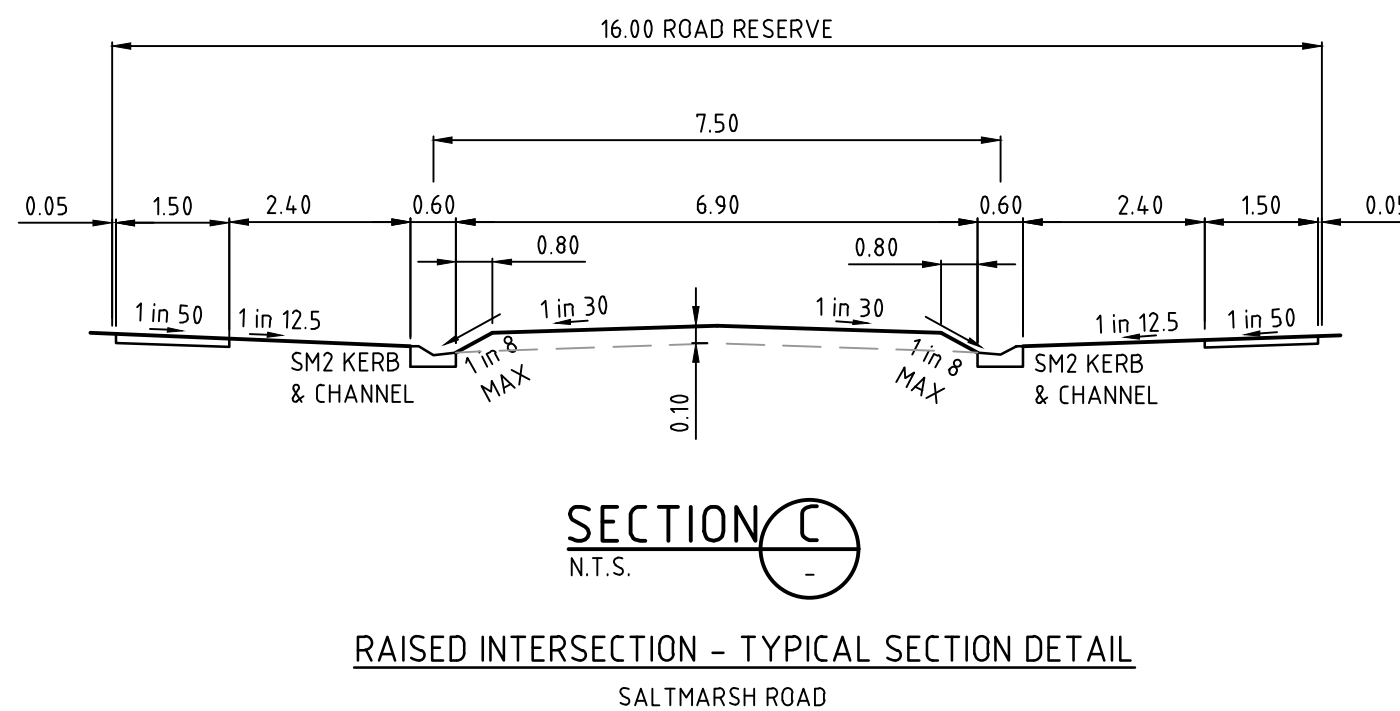
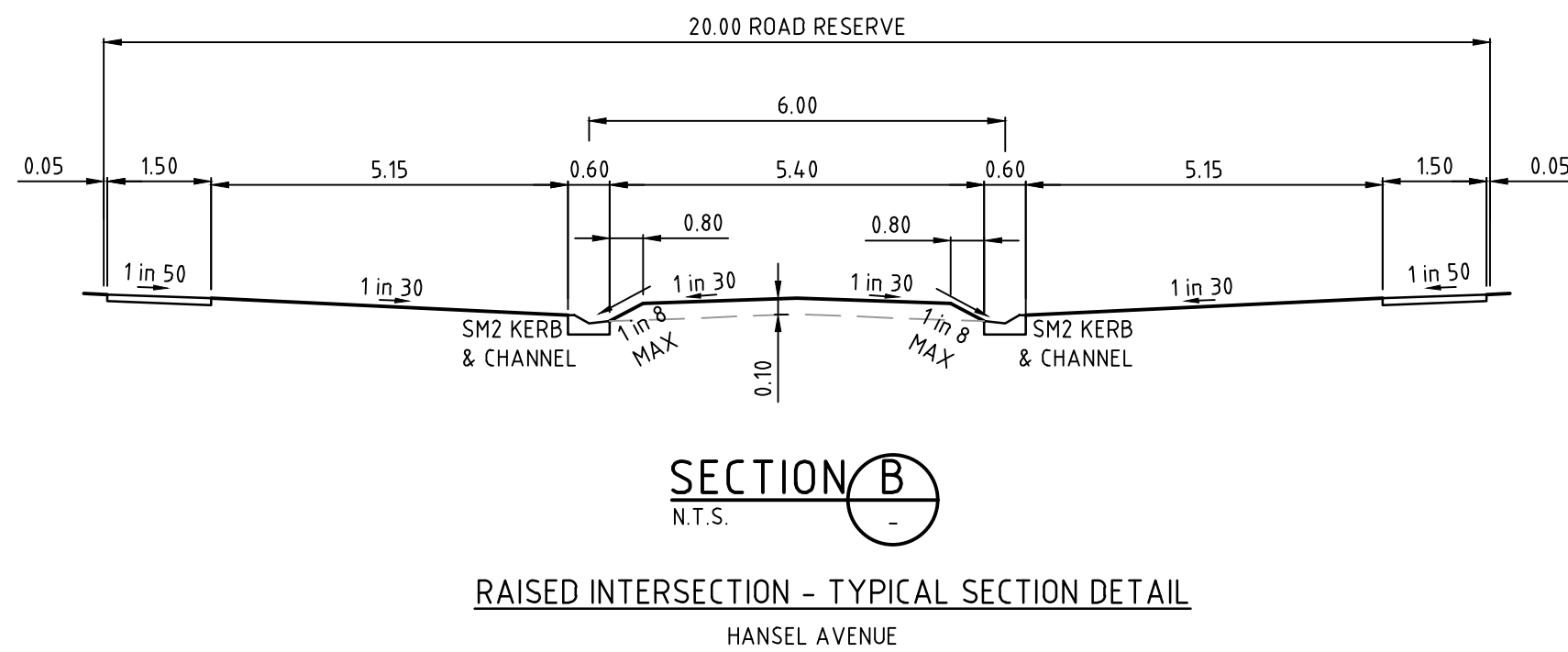
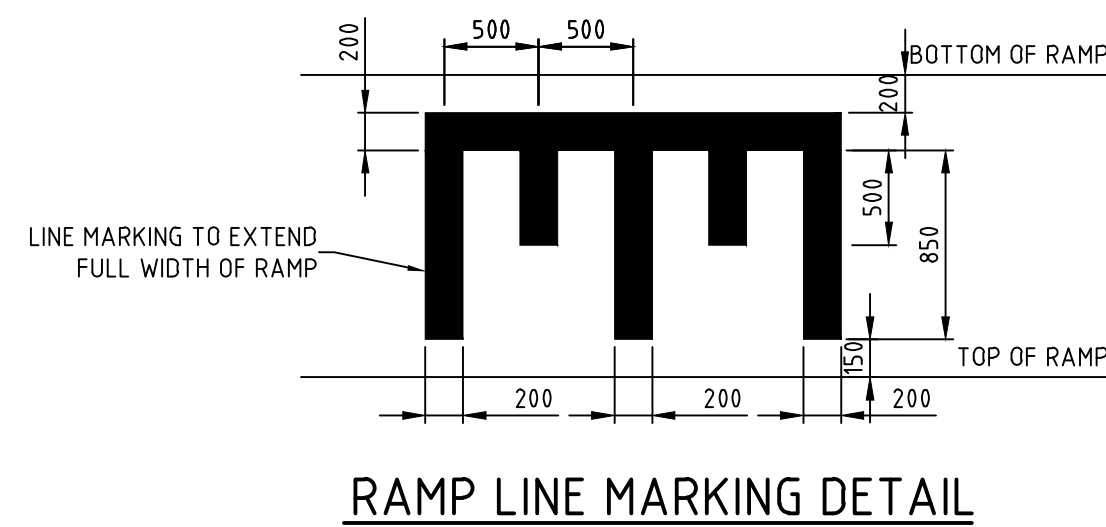
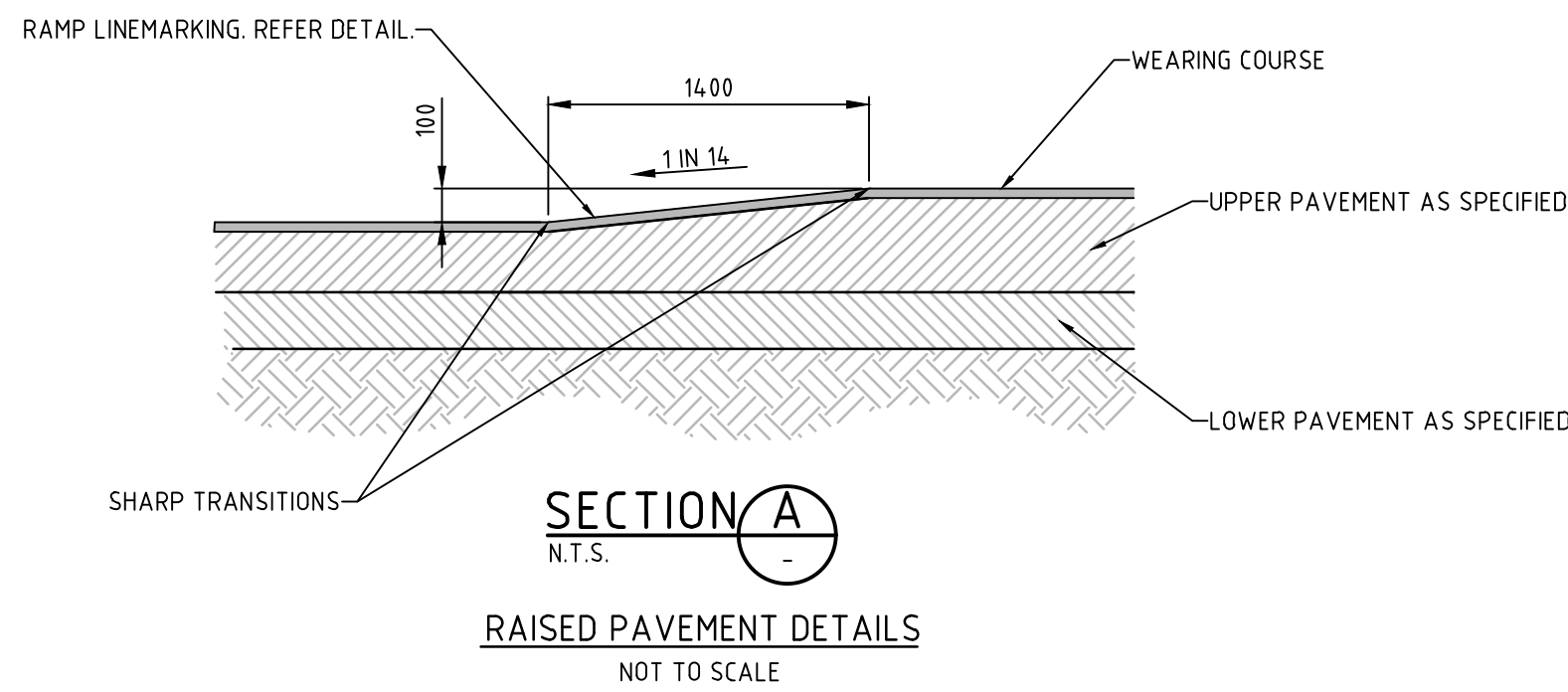
Designed  
M. WRIGHT  
Authorised  
S. MURPHY

Checked  
B. IBBS  
Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
PAVEMENT AND TYPICAL DETAILS  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY** Drg No 308176CR700 Rev C





file name: 308176CR701.dwg, layout name: CD701, plotted by: Mitchell Wright, file location: \\spiire\projects\308176\CD701\308176.dwg, plot date: 13/07/2021 11:03 AM, sheet: 25 of 27 sheets

Rev	Amendments	Approved	Date
D	AMENDED RAISED PAVEMENT EXTENTS	S.M	13/07/21
C	AMENDED ROAD NAMES	S.M	29/06/21
B	ISSUED FOR TENDER	S.M	26/02/21
A	PRELIMINARY ISSUE	S.M	05/02/21

Scale	

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Authorised S. MURPHY	Date 13/07/21

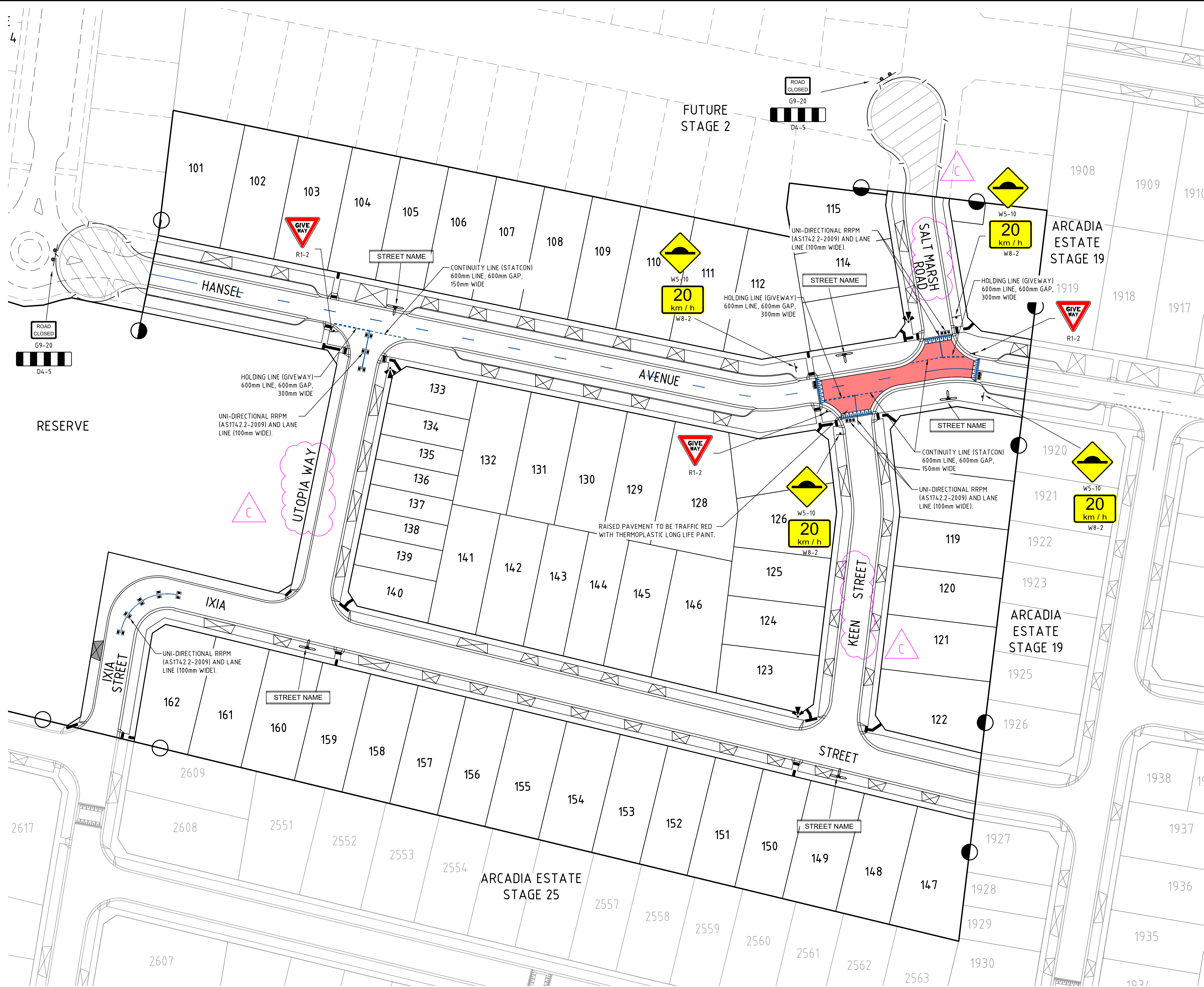
**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
RAISED PAVEMENT DETAILS**  
CARDINIA SHIRE  
YOURLAND PTY LTD

**PRELIMINARY**

Drg No  
308176CR701

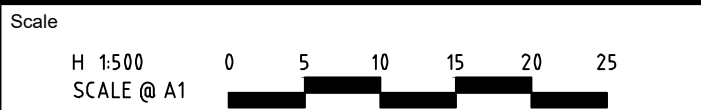
Rev  
D





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Rev	Amendments	Approved	Date
A	PRELIMINARY ISSUE	S.M	05/02/21
B	ISSUED FOR TENDER	S.M	26/02/21
C	AMENDED ROAD NAMES	S.M	29/06/21



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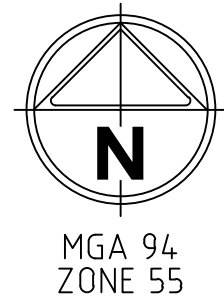
Designed  
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Authorised  
S. MURPHY  
Checked  
B. IBBS  
Date  
13/07/21

OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
SIGNAGE AND LINEMARKING  
CARDINIA SHIRE  
YOURLAND PTY LTD

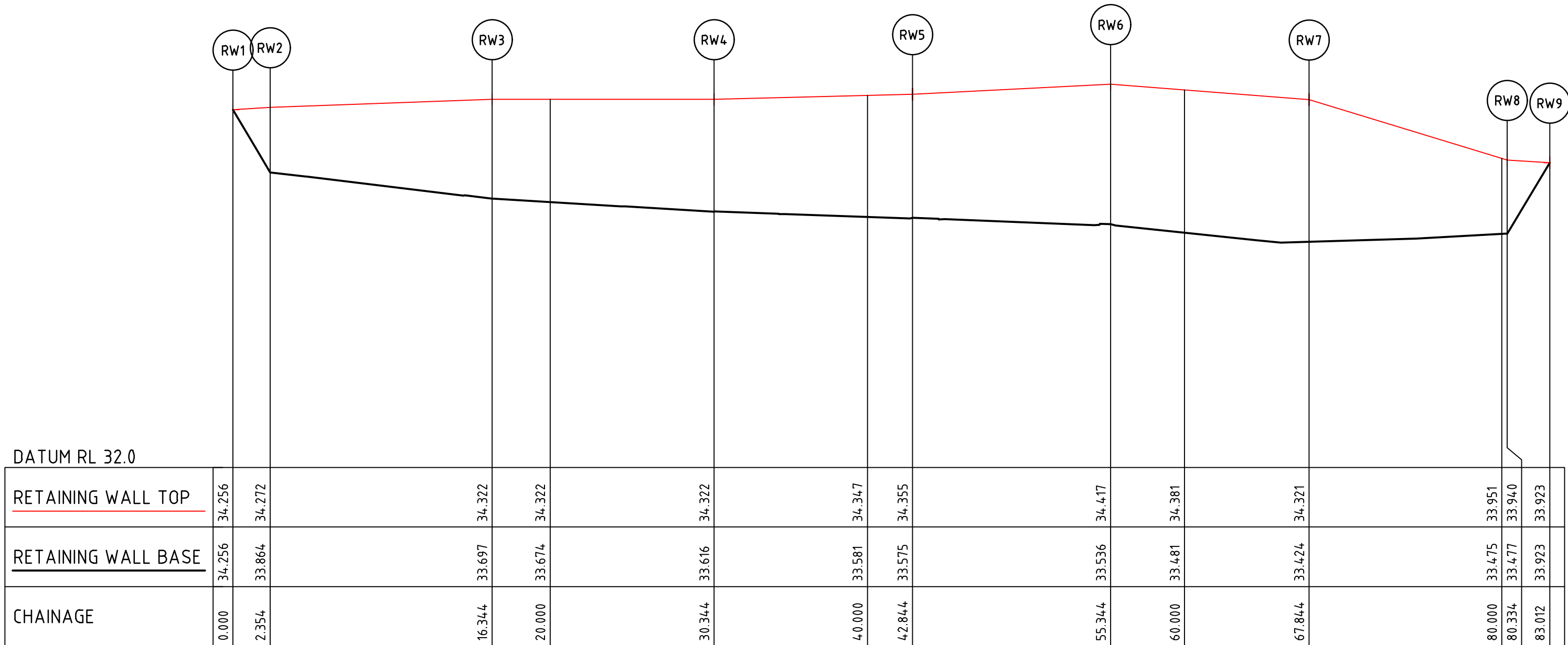
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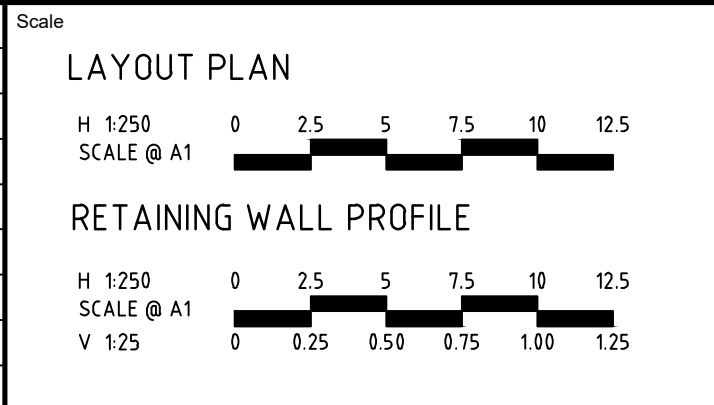


RETAINING WALL LAYOUT PLAN



RETAINING WALL

Rev	A	ISSUED FOR APPROVAL	S.M	13/07/21
Rev		Amendments	Approved	Date



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**OFFICER CENTRAL  
STAGE 1  
ROAD AND DRAINAGE  
RETAINING WALL DETAILS  
CARDINIA SHIRE  
YOURLAND PTY LTD**

**PRELIMINARY**

Dwg No  
**308176CR900**

Rev  
**A**