

OFFICER CENTRAL STAGE 7 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 ±0.05m.
 - 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.
 - T.B.M.'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.

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 1.0m OR 2.3m (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.
 - CCTV RESULTS FOR THE FULL LENGTH OF ALL STORMWATER DRAINAGE PIPES WHERE CARDINIA SHIRE COUNCIL IS RESPONSIBLE AUTHORITY MUST BE SUBMITTED FOR ASSESSMENT. SUBMITTED INFORMATION IS TO BE TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY. CCTV FOOTAGE TO BE PROVIDED BY CONTRACTOR BEFORE THE ROADS ARE PRIMED AND / OR ASPHALTED. ALL DAMAGED PIPES UNDER ROADS MUST BE REPAIRED AND INSPECTED PRIOR TO THE PRIMING AND ASPHALTING OF THE ROAD AND BEFORE A CERTIFICATE OF PRACTICAL COMPLETION IS ISSUED.

PAVEMENT

 - PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE COUNCIL. 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

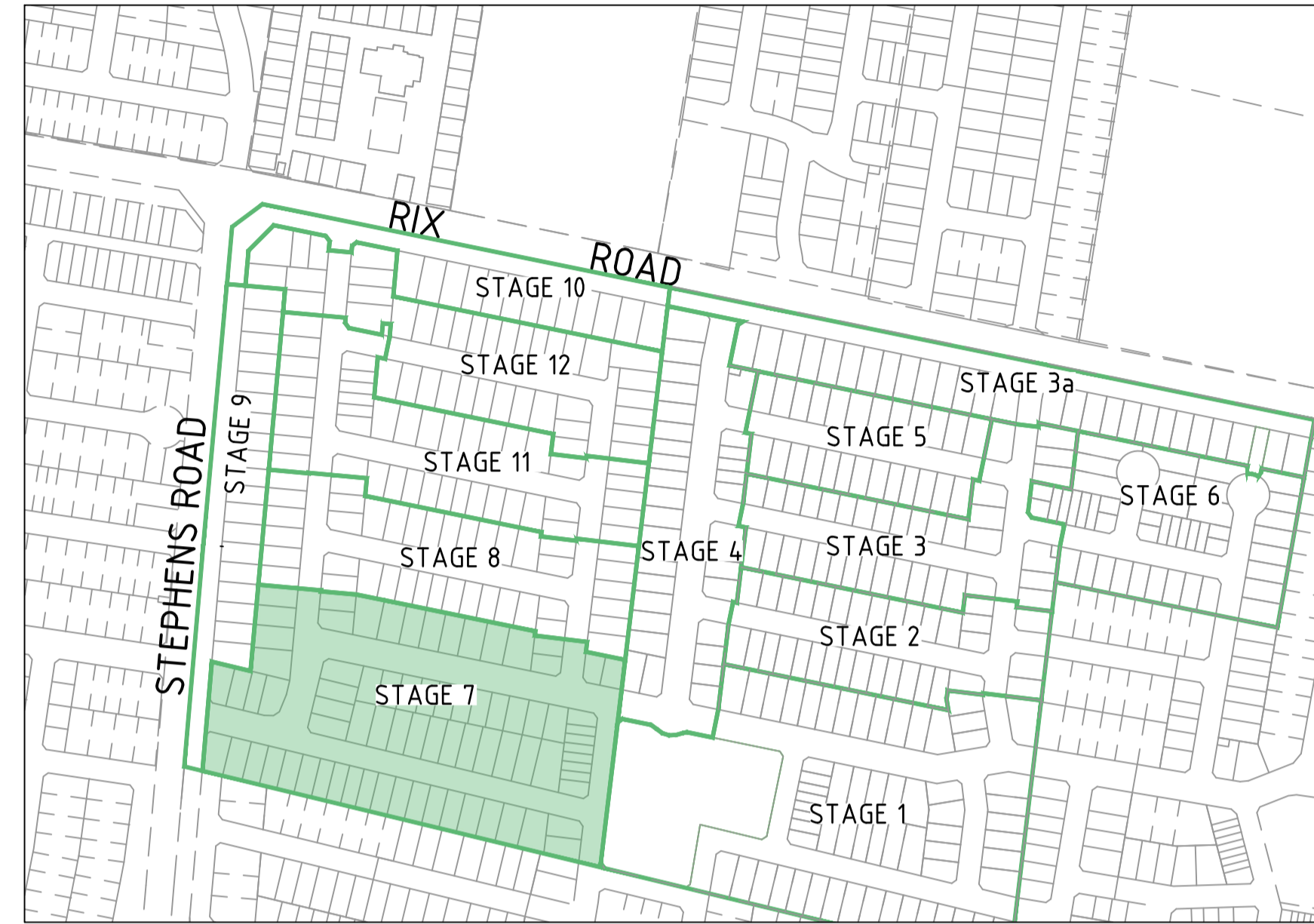
 - CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. PRIOR TO THE COMMENCEMENT OF WORKS.
 - ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED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

MISCELLANEOUS

 - PRIOR TO PC, PROVIDE THE ALLOCATED STREET NUMBER ON THE KERB IN FRONT OF EACH LOT. THE KERBSIDE NUMBERS MUST BE 100MM WHITE LETTERING ON A BLACK BACKGROUND LOCATED ON THE FRONT OF THE KERB AT THE PROPERTY FRONTAGE TO COUNCIL SATISFACTION.
 - 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 EDCM303
 - CONTRACTOR TO REFER TO AND COMPLY WITH CHMP / F&F REPORTS PROVIDED IN CONTRACT DOCUMENTS
 - *COUNCIL WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORKS WHERE AN INSPECTION IS NOT UNDERTAKEN WITH A COUNCIL APPOINTED REPRESENTATIVE

24 HOURS NOTICE IS REQUIRED FOR INSPECTION AT THE FOLLOWING HOLD POINTS:

PRIOR TO COMMENCEMENT OF THE WORKS.
INSPECTION OF THE SUBGRADE.
INSPECTION DURING DRAINAGE WORKS.
INSPECTION PRIOR TO POURING OF PITS.
INSPECTION OF SUB SOIL DRAINAGE.
INSPECTION OF KERB AND CHANNEL BEDDING.
INSPECTION PRIOR TO ANY CONCRETE WORKS.
INSPECTION AND TESTING OF EACH PAVEMENT LAYER (BY DEVELOPER OR CONTRACTOR).
TEST RESULTS SHALL BE ISSUED TO COUNCIL.
INSPECTION PRIOR TO SEALING AND ASPHALT WORKS.
ANY OTHER INSPECTION HOLD POINTS AS PER EDCM



LOCALITY PLAN
H 14 000
SCALE @ A1

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES - GENERAL NOTES	1	F
CR201	ROAD LAYOUT PLANS - FACE PLAN	2	F
CR202	ROAD LAYOUT PLANS - SERVICES PLAN	3	D
CR203	ROAD LAYOUT PLANS - EARTHWORKS PLAN	4	D
CR300	ROAD LONG SECTIONS - SHEET 1	5	D
CR301	ROAD LONG SECTIONS - SHEET 2	6	D
CR302	ROAD LONG SECTIONS - SHEET 3	7	B
CR400	ROAD CROSS SECTIONS - SHEET 1	8	C
CR401	ROAD CROSS SECTIONS - SHEET 2	9	D
CR402	ROAD CROSS SECTIONS - SHEET 3	10	C
CR403	ROAD CROSS SECTIONS - SHEET 4	11	D
CR404	ROAD CROSS SECTIONS - SHEET 5	12	C
CR405	ROAD CROSS SECTIONS - SHEET 6	13	D
CR406	ROAD CROSS SECTIONS - SHEET 7	14	D
CR407	ROAD CROSS SECTIONS - SHEET 8	15	C
CR408	ROAD CROSS SECTIONS - SHEET 9	16	C
CR409	ROAD CROSS SECTIONS - TYPICAL SECTIONS	17	B
CR500	INTERSECTION DETAILS - SHEET 1	18	C
CR501	INTERSECTION DETAILS - SHEET 2	19	C
CR502	INTERSECTION DETAILS - SHEET 3	20	C
CR503	INTERSECTION DETAILS - SHEET 4	21	D
CR504	INTERSECTION DETAILS - SHEET 5	22	B
CR600	DRAINAGE LONG SECTIONS - SHEET 1	23	C
CR601	DRAINAGE LONG SECTIONS - SHEET 2	24	C
CR602	DRAINAGE LONG SECTIONS - SHEET 3	25	C
CR603	DRAINAGE LONG SECTIONS - SHEET 4	26	F
CR700	PAVEMENT AND TYPICAL DETAILS - SHEET 1	27	D
CR701	PAVEMENT AND TYPICAL DETAILS - SHEET 2	28	D
CR800	SIGNAGE AND LINEMARKING - SHEET 1	29	D
CR901	MISCELLANEOUS - RETAINING WALL	30	C



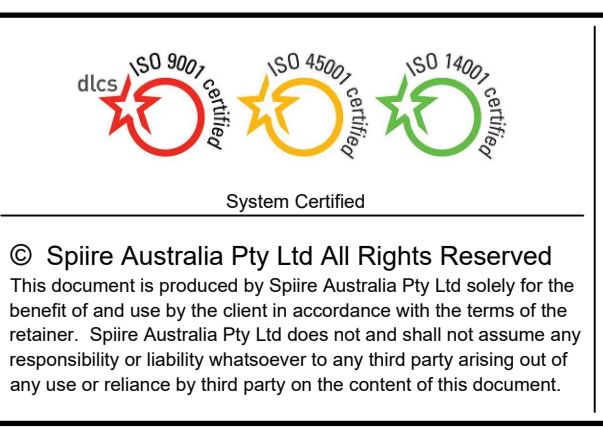
WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION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

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	--- DW ---	--- DW ---
WATER RECYCLED	--- NDW ---	--- NDW ---
UNDERGROUND ELECTRICITY	--- E ---	--- E ---
OVERHEAD ELECTRICITY & POLE	--- OE ---	--- OE ---
TELECOMMUNICATIONS & SERVICE PIT	--- T ---	--- T ---
OPTIC FIBRE	--- OF ---	--- OF ---
OVERHEAD TELECOMMUNICATIONS	--- OT ---	--- OT ---
GAS MAIN	--- G ---	--- G ---
BRANCH SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
SEWER RISING MAIN	--- SRM ---	--- SRM ---
CENTRAL INVERT	--- I ---	--- I ---
COUNCIL STORMWATER DRAIN AND PIT	--- SD ---	--- SD ---
STORM WATER DRAINAGE PROPERTY INLETS	--- SWDI ---	--- SWDI ---
COUNCIL STORM WATER PITS	--- SWP ---	--- SWP ---
HOUSE DRAIN	--- H ---	--- H ---
AG DRAIN AND FLUSHER	--- AG ---	--- AG ---
MWC STORM WATER DRAIN & PIT	--- MWC ---	--- MWC ---
MWC STORM WATER PITS	--- MWC ---	--- MWC ---
STORM WATER DRAINAGE PIT NUMBER	Ex 4.7	1
GAS & WATER CONDUITS	--- GW ---	--- GW ---
CONCRETE VEHICLE CROSSING	--- VC ---	--- VC ---
RIDGE / CHANGE OF GRADE LINE	--- RL ---	--- RL ---
SURFACE CONTOUR MINOR	--- 169.00 ---	--- 169.00 ---
SURFACE CONTOUR MAJOR	--- 168.90 ---	--- 168.90 ---
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE	--- EG ---	--- EG ---
SIGN AND POST	--- SP ---	--- SP ---
LIGHT & POLE (BY OTHERS)	--- LP ---	--- LP ---
STREET SIGN	--- SS ---	--- SS ---
PERMANENT SURVEY MARK	--- PSM ---	--- PSM ---
TEMPORARY BENCH MARK	--- TBM ---	--- TBM ---
BOLLARD	--- B ---	--- B ---
ROAD CHAINAGES	CH116.57 (L/R)T/P CH116.57	CH116.57 (L/R)T/P CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	--- SP ---	--- SP ---
LIMIT OF WORKS	--- LW ---	--- LW ---
BATTER	--- B ---	--- B ---
EXCAVATION GREATER THAN 0.20m	--- EX ---	--- EX ---
FILLING GREATER THAN 0.20m	--- FI ---	--- FI ---
ROCK BEACHING	--- RB ---	--- RB ---
RETAINING WALL	--- RW ---	--- RW ---
FENCE - TREE PROTECTION	--- FT ---	--- FT ---
FENCE - VEHICLE EXCLUSION	--- FE ---	--- FE ---
FENCES	--- F ---	--- F ---
GUARD RAIL	--- GR ---	--- GR ---
TREE (& SURVEYED CANOPY) TO BE RETAINED	--- TR ---	--- TR ---
TREE TO BE PROTECTED	--- TP ---	--- TP ---
TREE TO BE REMOVED	--- TR ---	--- TR ---
VEGETATION LINE	--- VL ---	--- VL ---
FOOTPATH	--- FP ---	--- FP ---
TACTILE GROUND SURFACE INDICATOR	--- TGI ---	--- TGI ---
KERB TRANSITION	--- KT ---	--- KT ---

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S23-010 - T220246
Sheet: 1 of 30
Approved by: Vithu Vijayakumar
CARDINIA SHIRE COUNCIL
Date: Tuesday, 31 October 2023

file name: 310306CR100.dwg, layout name: GS100, plotted by: Saurabh Salhan, file location: \\spire\media\310306\310306\Civil\A3\A301.dwg, plot date: 10/10/2023, 12:11 PM, Sheet: 1 of 30, Sheets

Rev	Description	By	Date
F	REVISED CR201, CR603 & CR800	B.W.	18/10/2023
E	UPDATED CR201, CR603 & CR800	B.W.	12/10/2023
D	REVISED PLANS	B.W.	26/09/2023
C	UPDATED GENERAL NOTE 24 AND DRAWING SCHEDULE	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
Rev	Amendments	Approved	Date



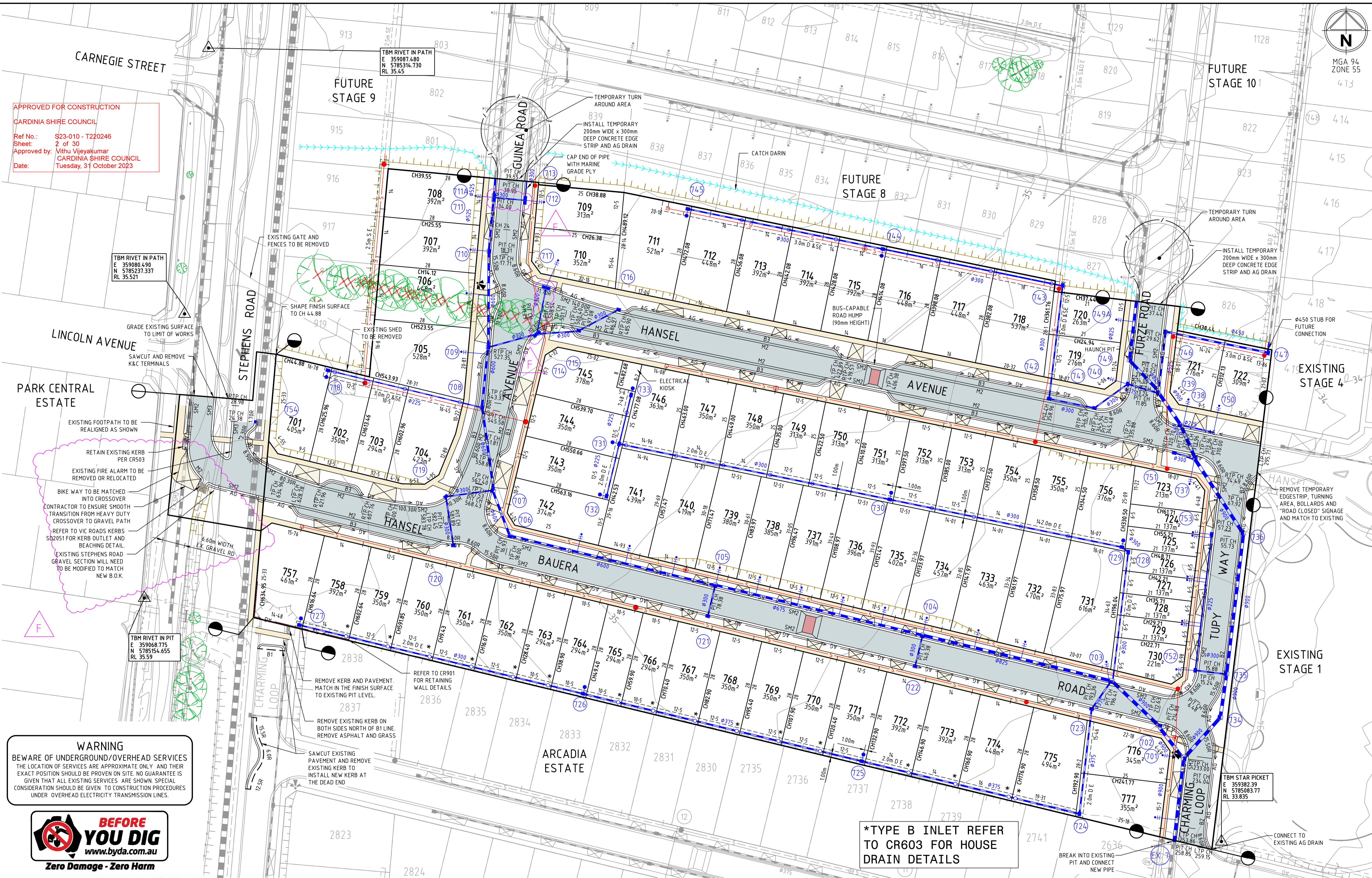
Designed S.SALHAN	Checked B.IBBS
Authorised B.WAREHAM	Date 18/10/2023

**OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
GENERAL NOTES - GENERAL NOTES**
CARDINIA SHIRE
YOURLAND PTY LTD

PRELIMINARY Drg No: 310306CR100 Rev: F



APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
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 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
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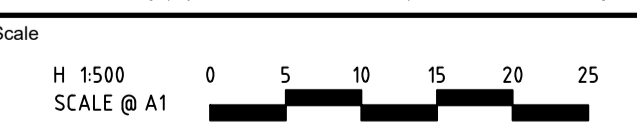


WARNING
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***TYPE B INLET REFER TO CR603 FOR HOUSE DRAIN DETAILS**

Rev	Description	Approved	Date
F	ADDED HEAVY DUTY CROSSOVER AND REVISED PITS	B.W.	18/10/2023
E	UPDATED FOOTPATH AND NOTE	B.W.	12/10/2023
D	MINOR KERB, PIT, AND DRAINAGE CHANGES.	B.W.	26/09/2023
C	REVISED LAYOUT	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
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Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - FACE PLAN**
 CARDINIA SHIRE
 YOURLAND PTY LTD

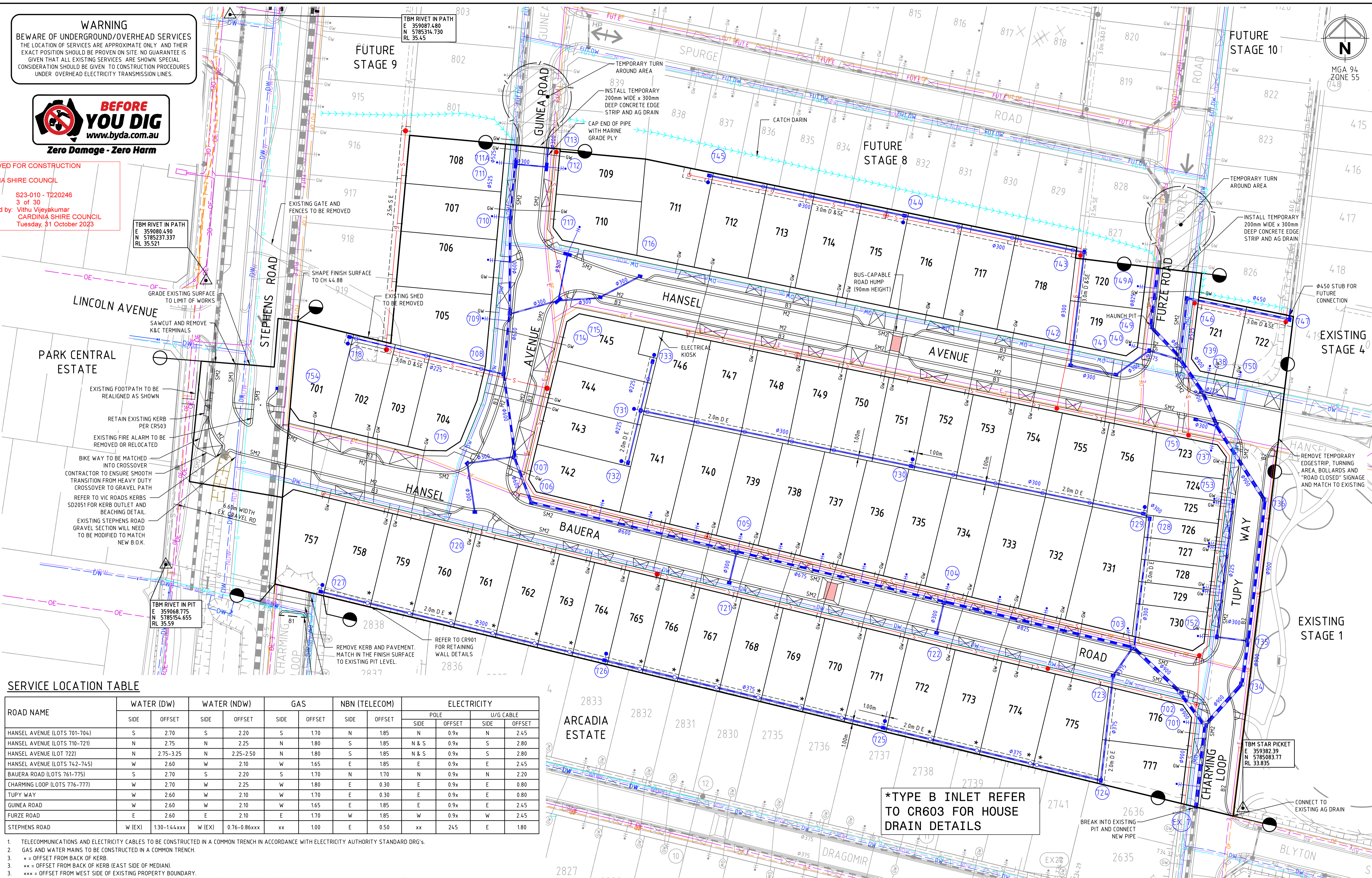
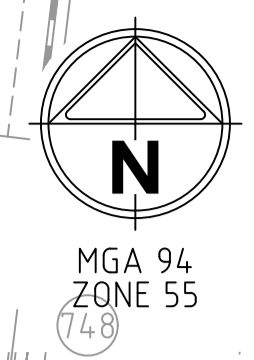
Dwg No: 310306CR201 Rev: F

File Name: 310306CR201.dwg, Project Name: CR201, Modified by: Sushant, Sheet: 2 of 30, Date: 18/10/2023, 12:12 PM, Scale: A1, Plot Date: 18/10/2023, 12:12 PM, Sheet: 2 of 30, Sheets: 30

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CARDINIA SHIRE COUNCIL
Ref No: S23-010 - T220246
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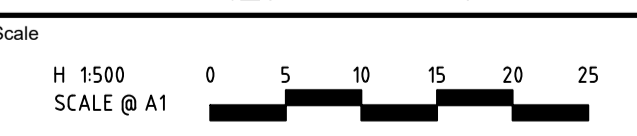


SERVICE LOCATION TABLE

ROAD NAME	WATER (DW)		WATER (NDW)		GAS		NBN (TELECOM)		ELECTRICITY			
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE		U/G CABLE	
HANSEL AVENUE (LOTS 701-704)	S	2.70	S	2.20	S	1.70	N	1.85	N	0.9x	N	2.45
HANSEL AVENUE (LOTS 710-721)	N	2.75	N	2.25	N	1.80	S	1.85	N & S	0.9x	S	2.80
HANSEL AVENUE (LOT 722)	N	2.75-3.25	N	2.25-2.50	N	1.80	S	1.85	N & S	0.9x	S	2.80
HANSEL AVENUE (LOTS 742-745)	W	2.60	W	2.10	W	1.65	E	1.85	E	0.9x	E	2.45
BAUERA ROAD (LOTS 761-775)	S	2.70	S	2.20	S	1.70	N	1.70	N	0.9x	N	2.20
CHARMING LOOP (LOTS 776-777)	W	2.70	W	2.25	W	1.80	E	0.30	E	0.9x	E	0.80
TUPY WAY	W	2.60	W	2.10	W	1.70	E	0.30	E	0.9x	E	0.80
GUINEA ROAD	W	2.60	W	2.10	W	1.65	E	1.85	E	0.9x	E	2.45
FURZE ROAD	E	2.60	E	2.10	E	1.70	W	1.85	W	0.9x	W	2.45
STEPHENS ROAD	W (EX)	1.30-1.44xxx	W (EX)	0.76-0.86xxx	xx	1.00	E	0.50	xx	2.45	E	1.80

- TELECOMMUNICATIONS AND ELECTRICITY CABLES TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRG'S.
- GAS AND WATER MAINS TO BE CONSTRUCTED IN A COMMON TRENCH.
- x = OFFSET FROM BACK OF KERB.
- xx = OFFSET FROM BACK OF KERB (EAST SIDE OF MEDIAN).
- xxx = OFFSET FROM WEST SIDE OF EXISTING PROPERTY BOUNDARY.

Rev	Description	Approved	Date
D	MINOR KERB, PIT, AND DRAINAGE CHANGES.	B.W.	26/09/2023
C	REVISED LAYOUT	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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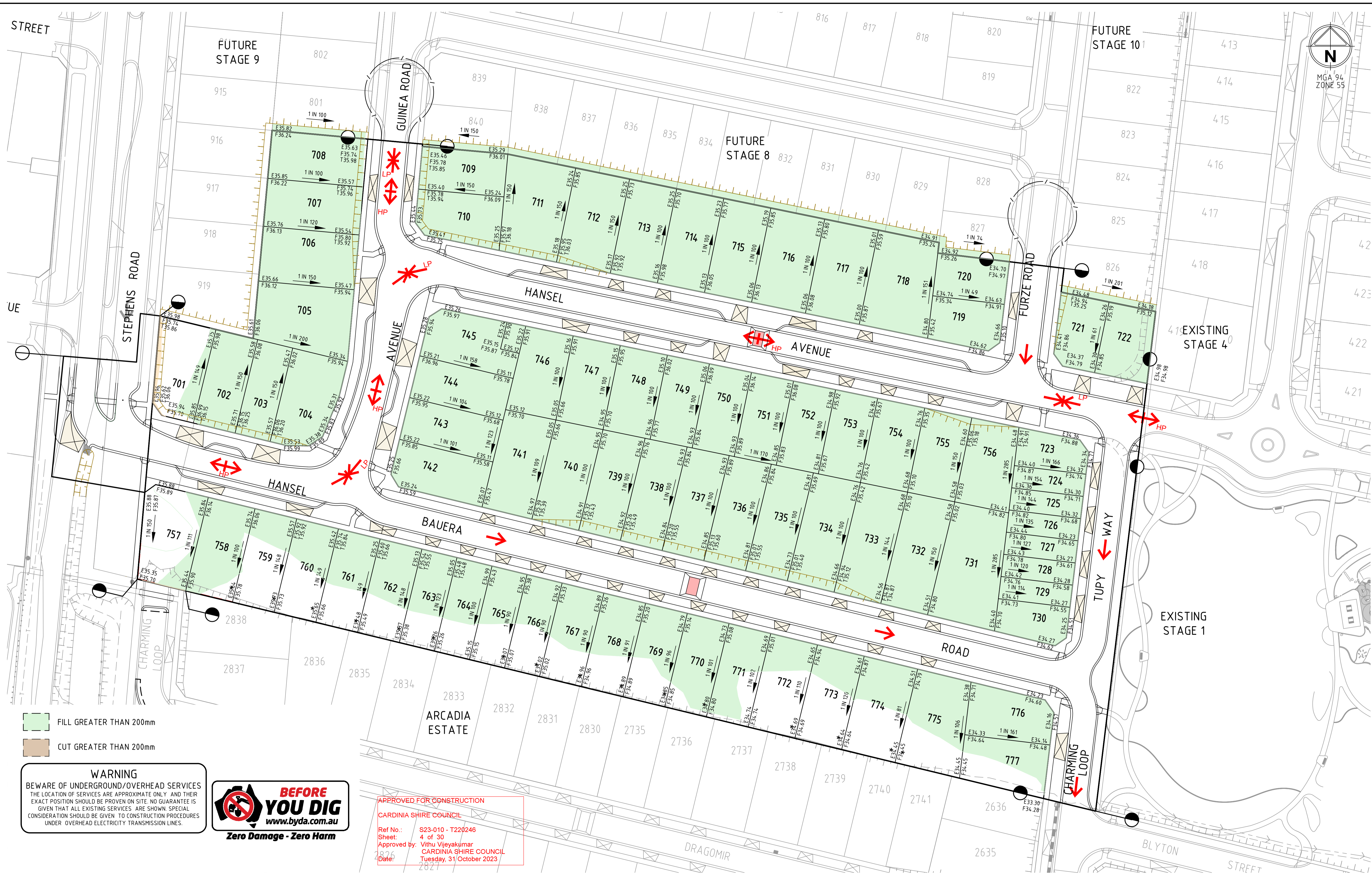
Designed
S.SALHAN
Authorised
B.WAREHAM

Checked
B.IBBS
Date
18/10/2023

**OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - SERVICES PLAN**
CARDINIA SHIRE
YOURLAND PTY LTD

Drg No
310306CR202
Rev
D

*TYPE B INLET REFER TO CR603 FOR HOUSE DRAIN DETAILS



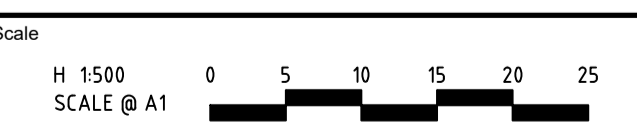
- FILL GREATER THAN 200mm
- CUT GREATER THAN 200mm

WARNING
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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.



APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S23-010 - T220246
Sheet: 4 of 30
Approved by: Vithu Vijayakumar
CARDINIA SHIRE COUNCIL
Date: Tuesday, 31/October 2023

Rev	Amendments	Approved	Date
D	REVISED LOT LEVELS	B.W.	26/09/2023
C	UPDATED GRADE AND LEVEL SYMBOLS	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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1/126 ALBERT ROAD WARRAGUL
VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
spiire.com.au ABN 55 050 029 635

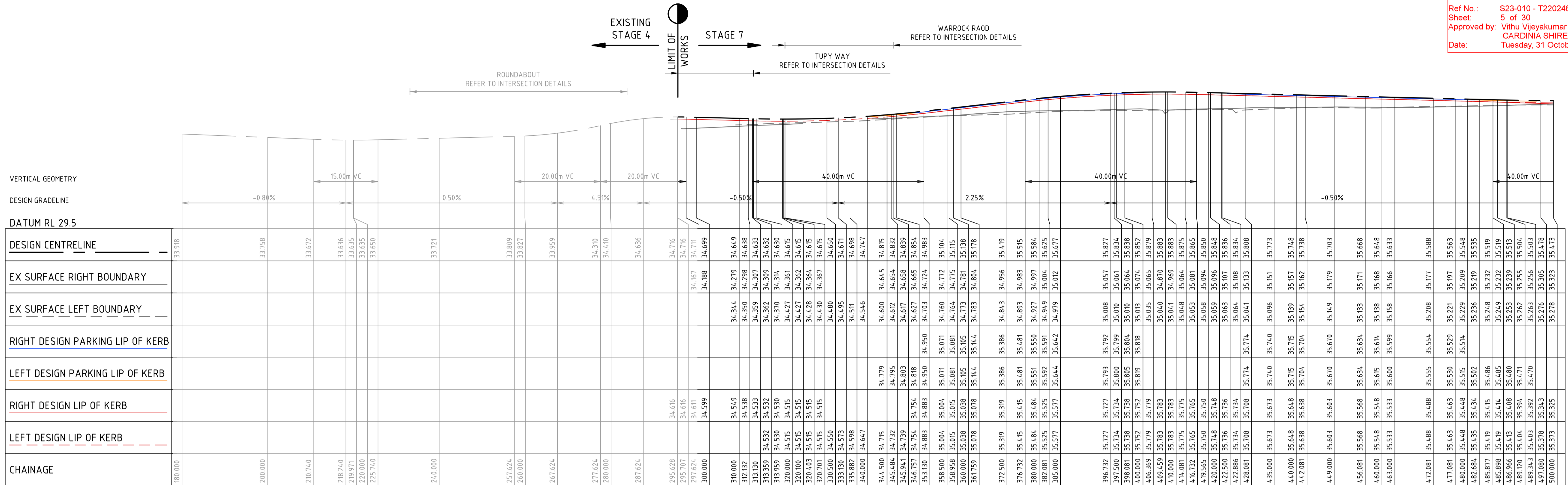


Designed
S.SALHAN
Authorised
B.WAREHAM
Checked
B.IBBS
Date
18/10/2023

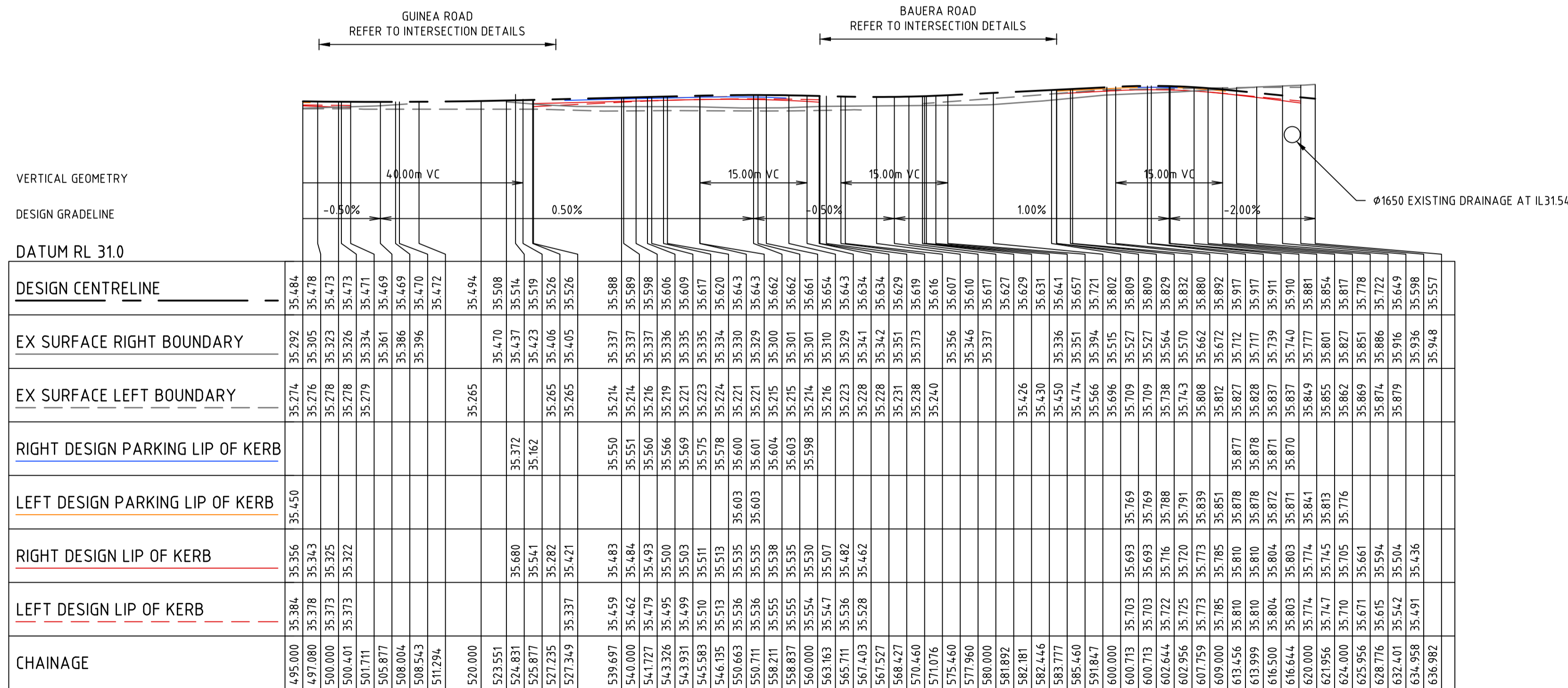
**OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - EARTHWORKS PLAN**
CARDINIA SHIRE
YOURLAND PTY LTD

Dwg No
310306CR203
Rev
D

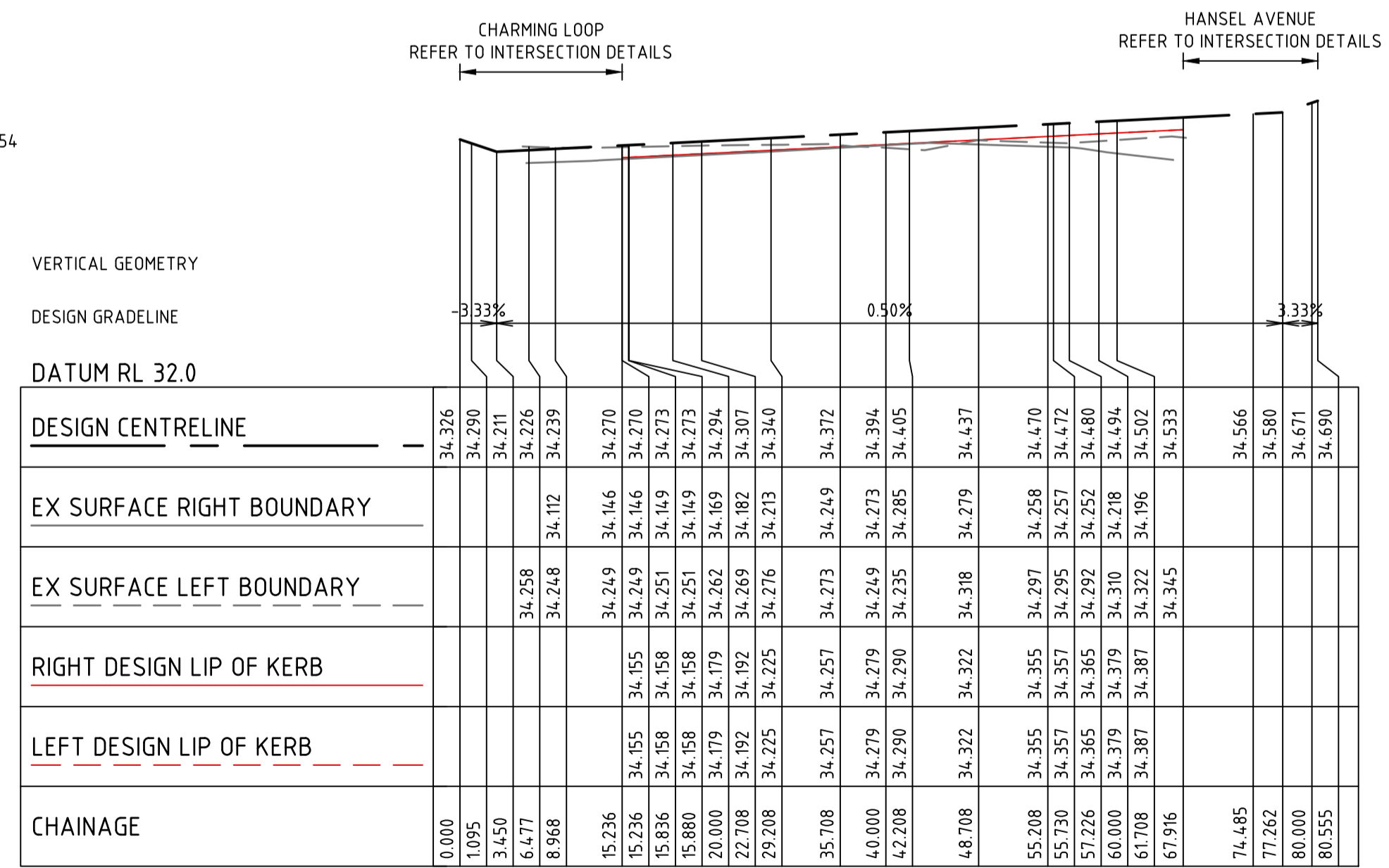
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HANSEL AVENUE



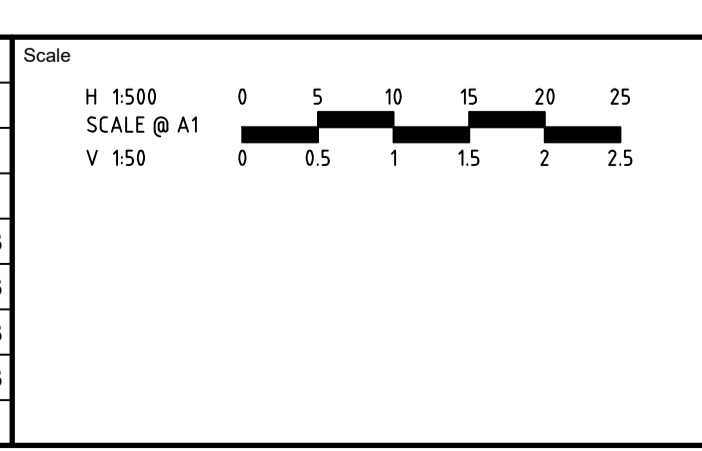
HANSEL AVENUE



TUPY WAY

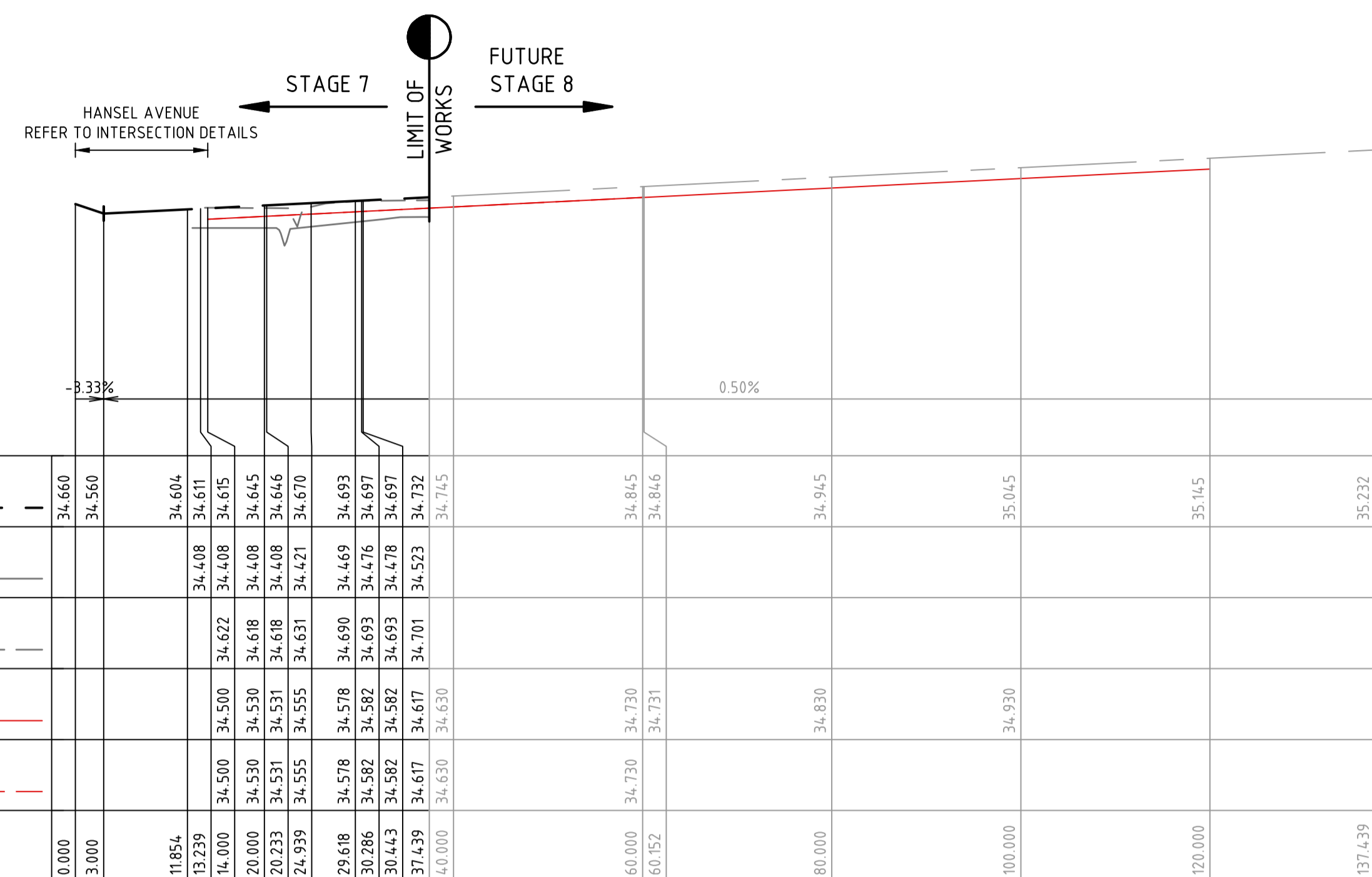
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Rev	Amendments	Approved	Date
D	REVISED VERTICAL GRADES	B.W.	26/09/2023
C	UPDATED HANSEL AVENUE	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023

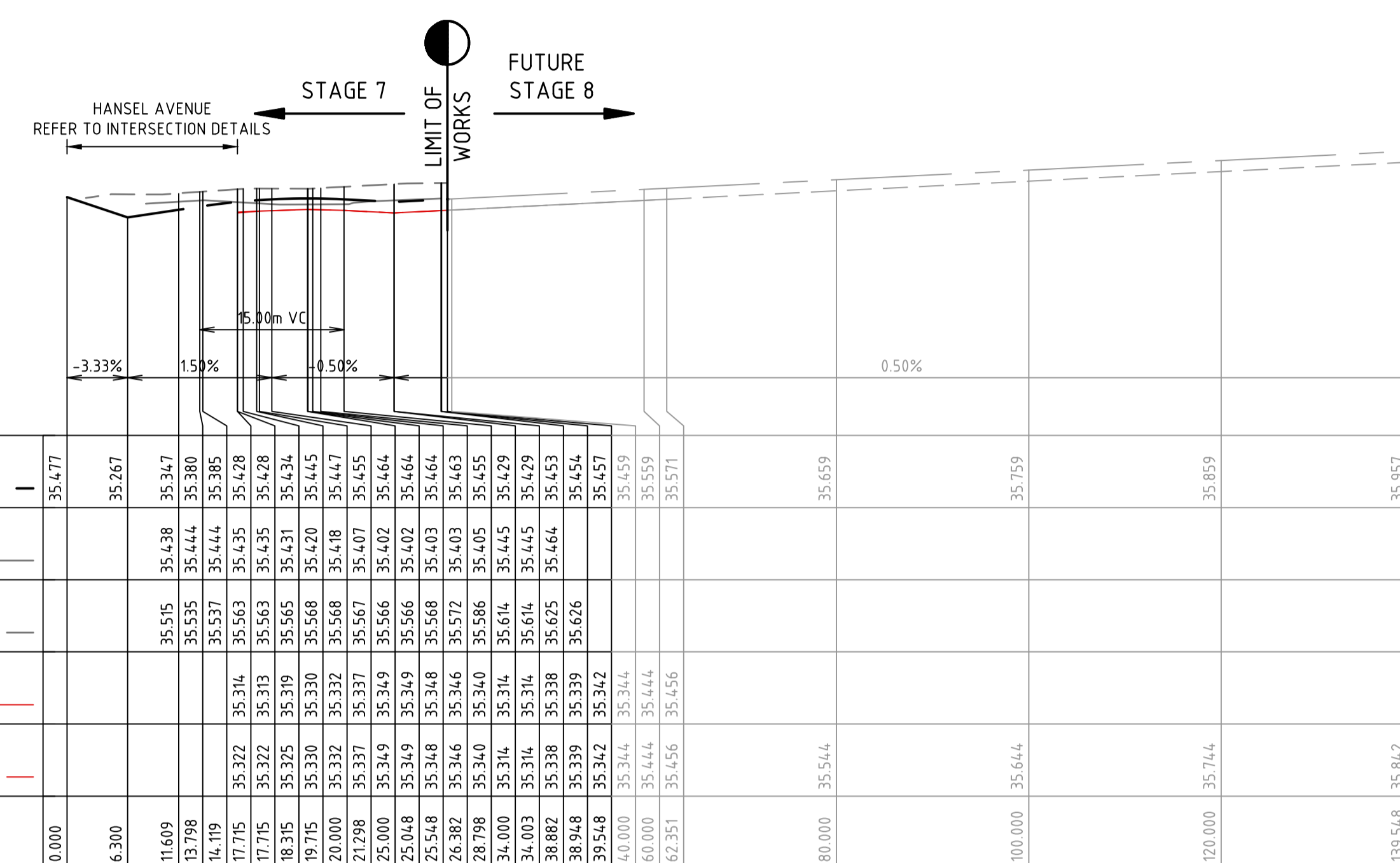


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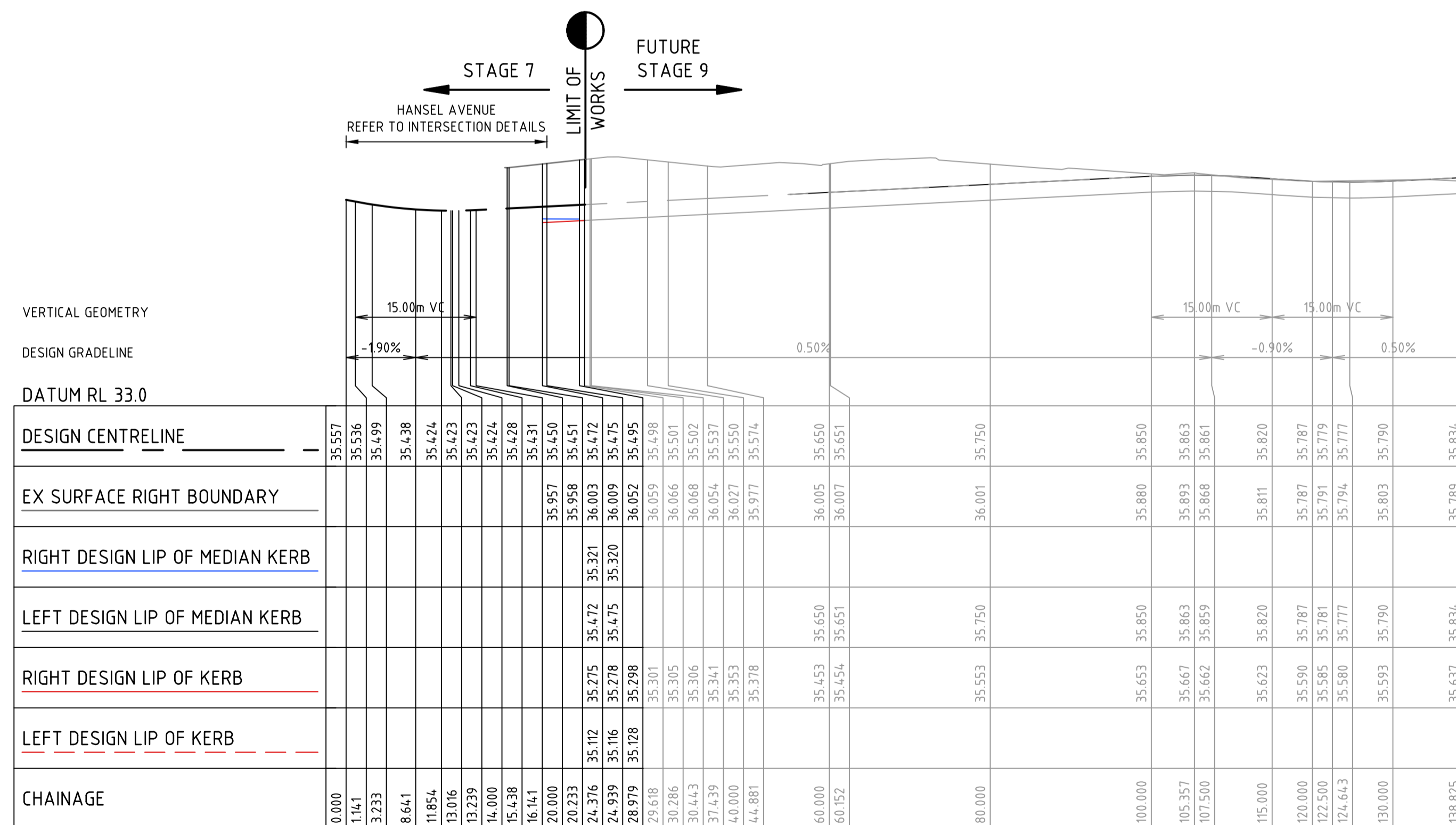
OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No 310306CR300 Rev D



FURZE ROAD



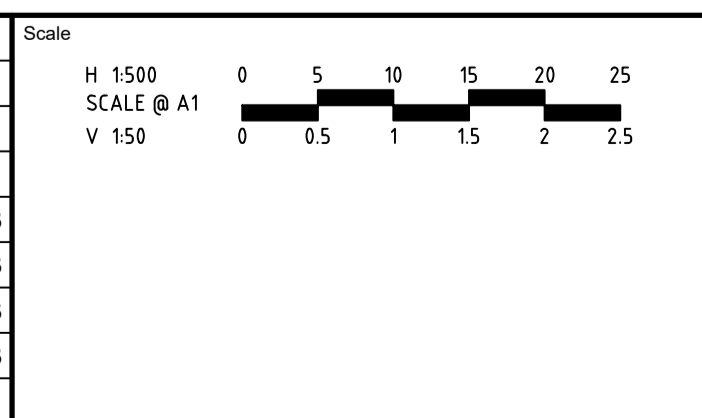
GUINEA ROAD



STEPHENS ROAD

File Name: 310306CR300.dwg, Location: c:\temp\card\310306CR300, Modified: 10/10/2023 12:12 PM, Sheet: 6 of 30, Sheets

Rev	Amendments	Approved	Date
D	REVISED SETPHENS ROAD	B.W.	26/09/2023
C	UPDATED GUINEA ROAD AND STEPHENS ROAD	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
 spiire.com.au ABN 55 050 029 635

Designed
 S.SALHAN

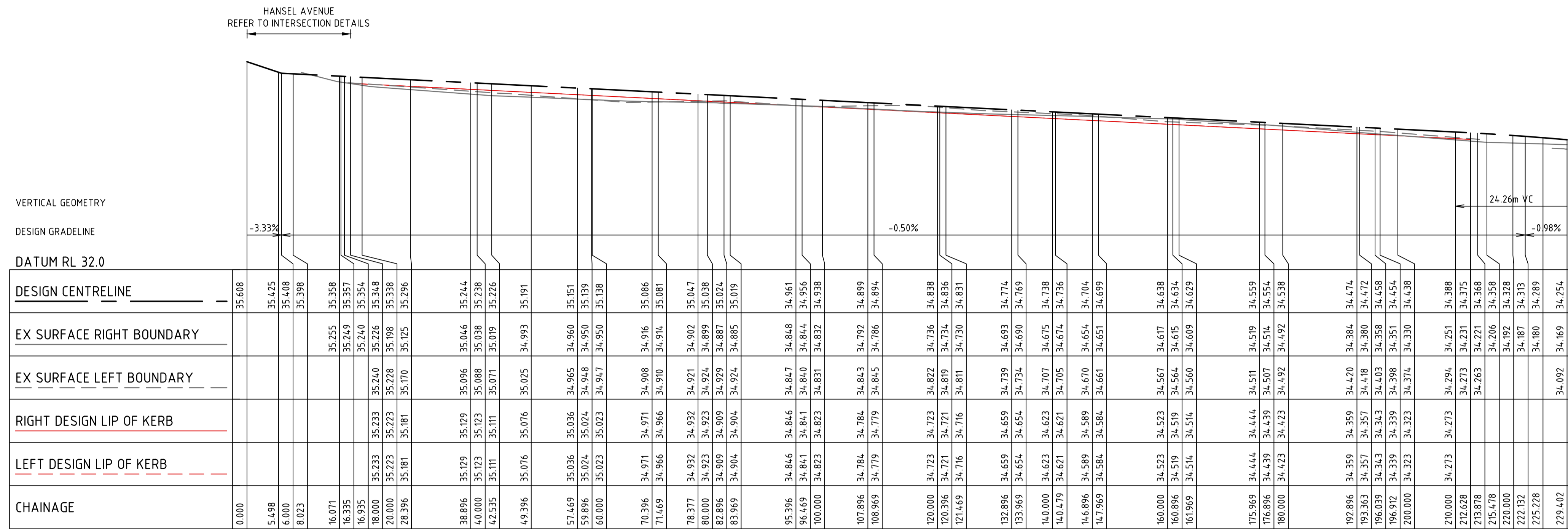
Checked
 B.IBBS

Authorised
 B.WAREHAM

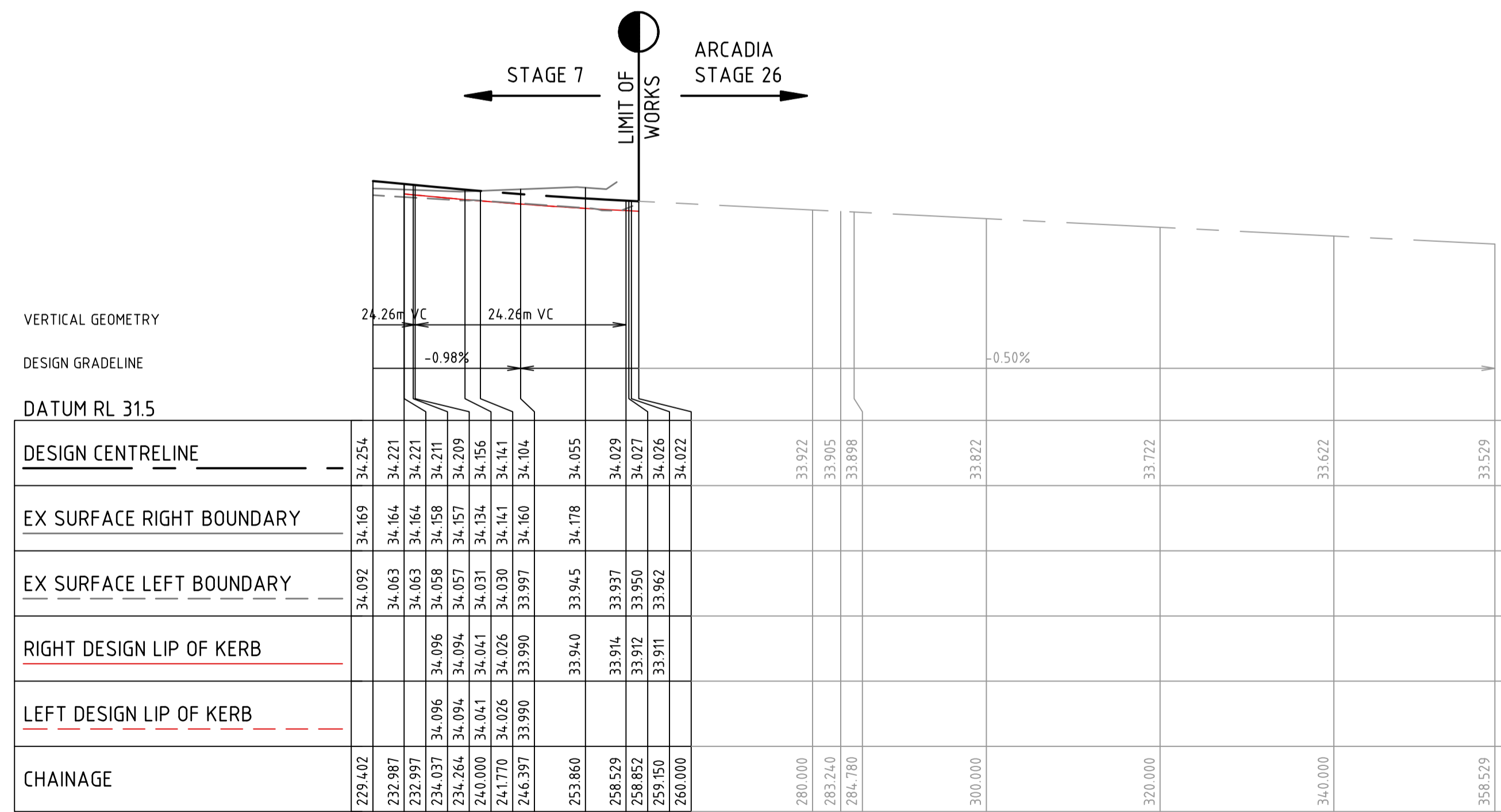
Date
 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 2**
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No 310306CR301 Rev D



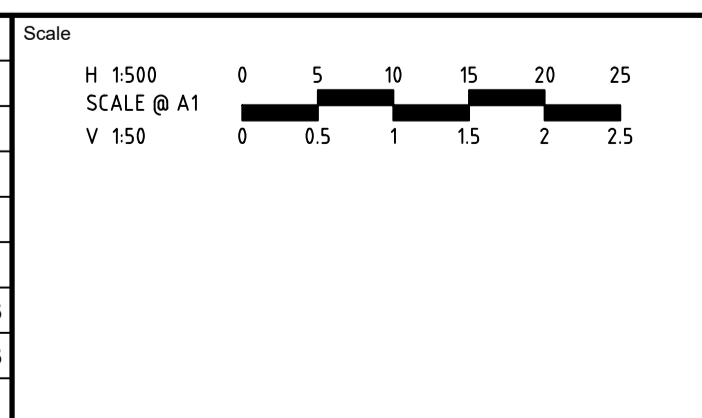
BAUERA LOOP



CHARMING LOOP

file name: 310306CR302.dwg, layout: name: CD302, plotted by: Suresh, Sthith, file location: R:\310306CR302\310306CR302.dwg, plot date: 07/10/2023, 12:27 PM, Sheet 7 of 30 Sheets

Rev	Description	Approved	Date
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
	Amendments		



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1/126 ALBERT ROAD WARRAGUL
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YourLand Developments

Designed: S.SALHAN
 Authorised: B.WAREHAM

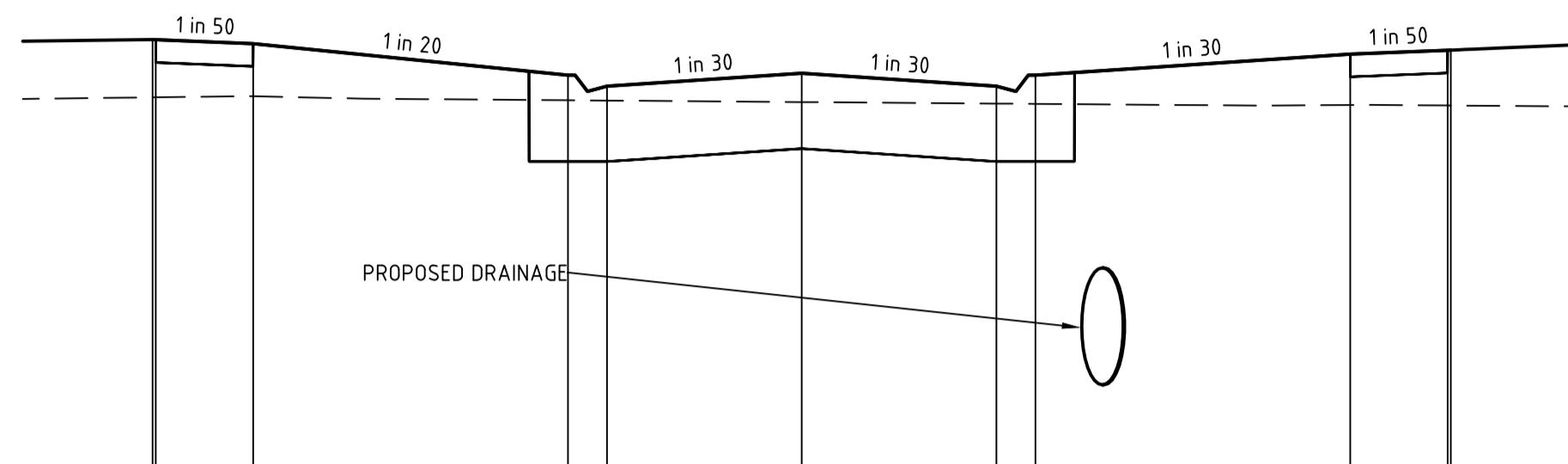
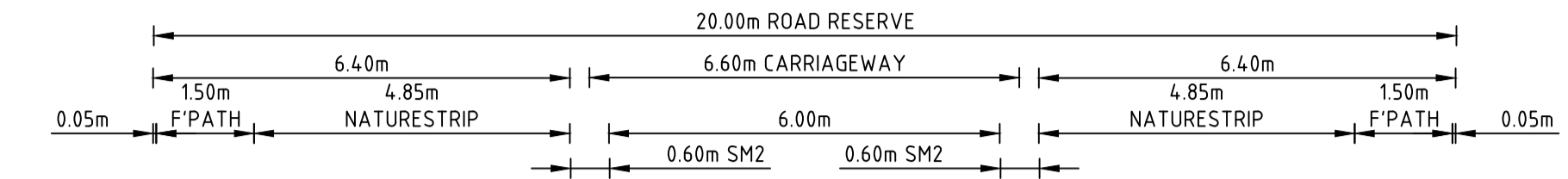
Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
 ROAD AND DRAINAGE
 ROAD LONG SECTIONS - SHEET 3
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: 310306CR302 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.

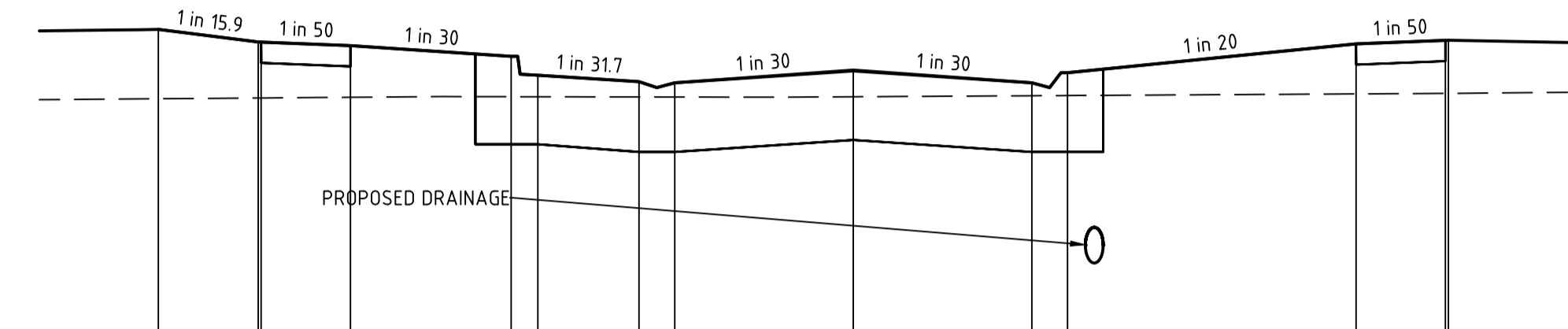
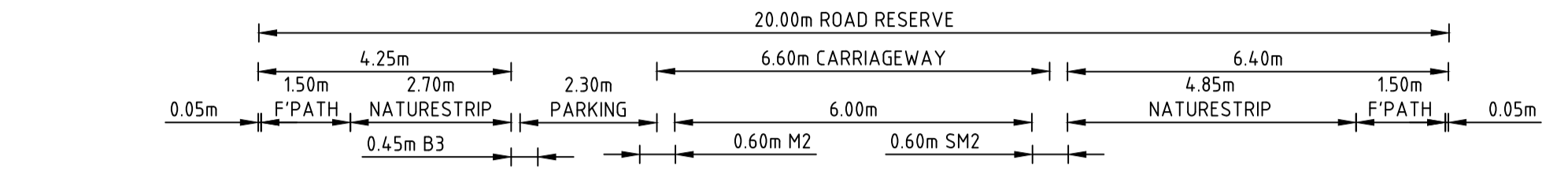
APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 8 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



DATUM R.L.31.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

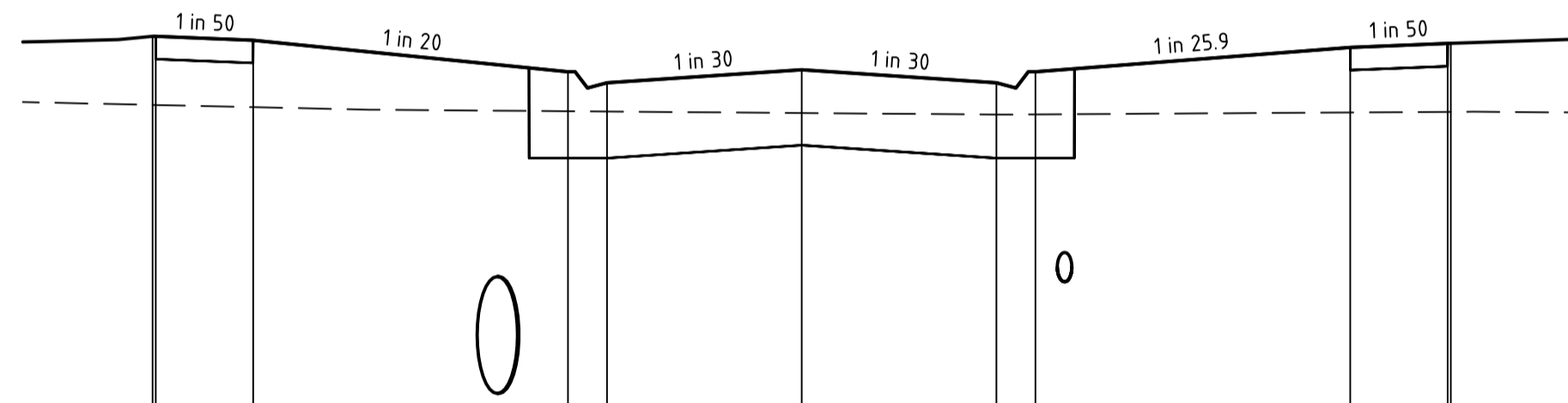
CH 320.70



DATUM R.L.32.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

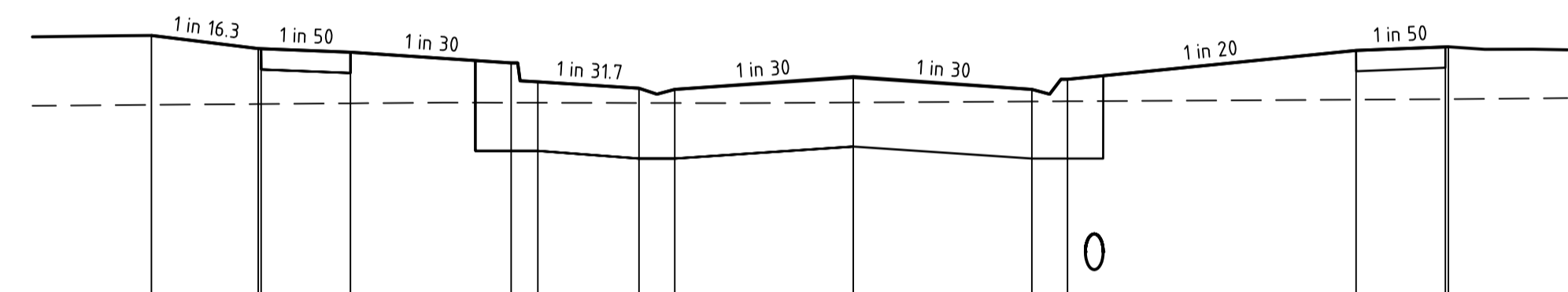
CH 346.76



DATUM R.L.31.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

CH 313.36



DATUM R.L.32.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

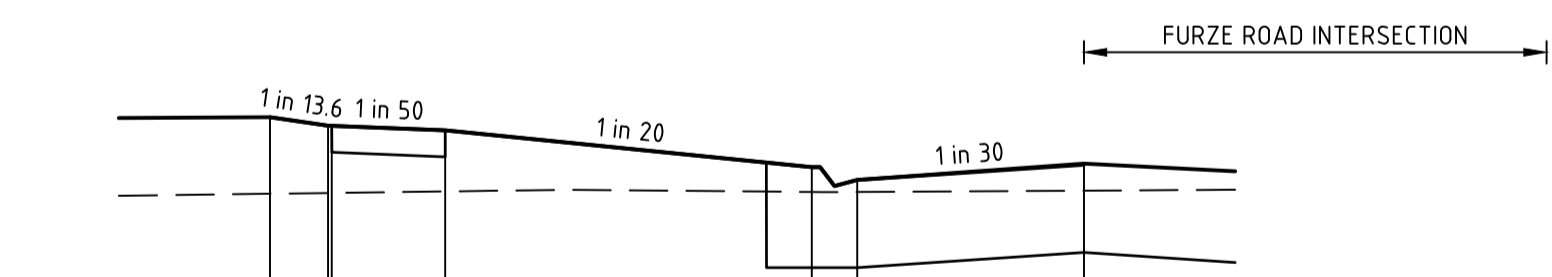
CH 345.94



DATUM R.L.33.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

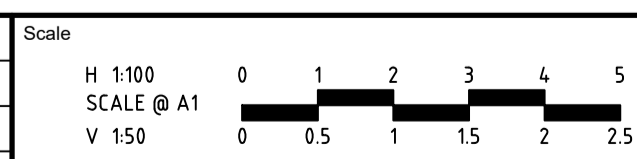
CH 295.71



DATUM R.L.33.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

HANSEL AVENUE

CH 335.88



Rev	Description	Approved	Date
C	UPDATED CROSS SECTIONS	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
	Amendments		

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 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
 spiire.com.au ABN 55 050 029 635

Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

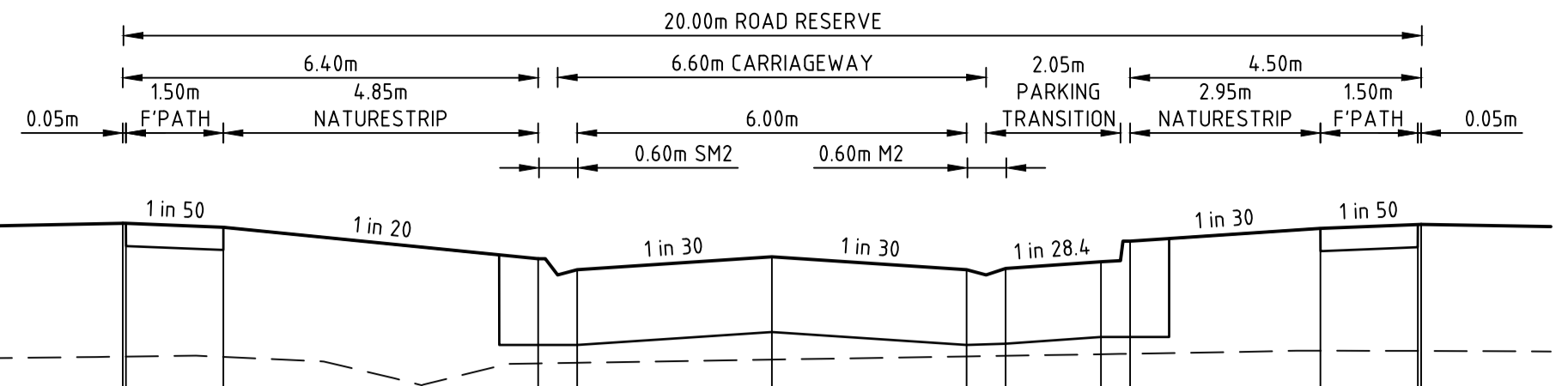
OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY 310306CR400 Rev C

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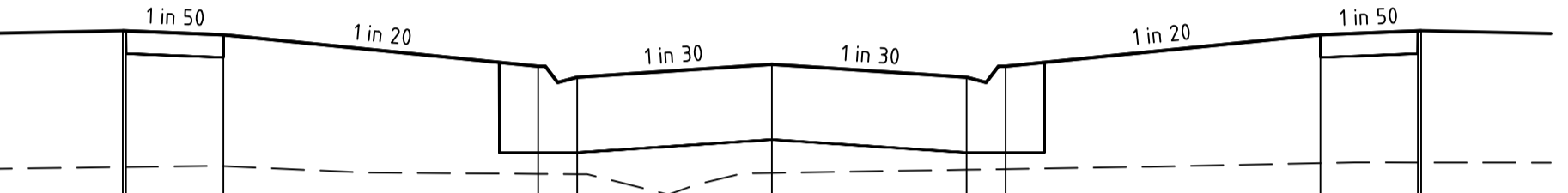
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 9 of 30
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



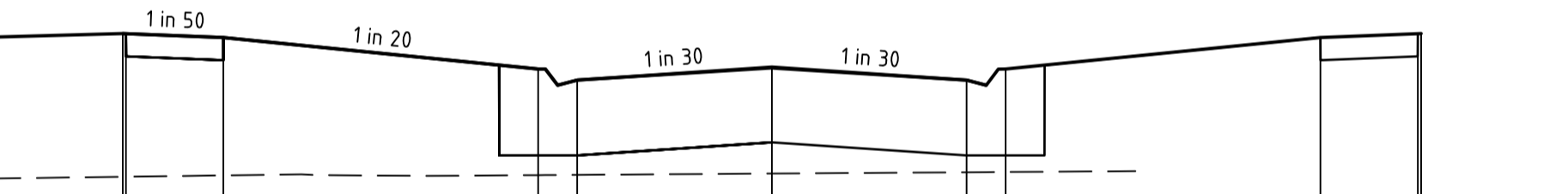
DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.092 36.091 36.061 35.819 35.734 35.834 35.734 35.744 35.795 35.954 36.052 36.082 36.083
EXISTING SURFACE LEVEL	35.064 35.064 35.062 35.012 35.016 35.041 35.065 35.070 35.082 35.086 35.109 35.108 35.108
OFFSET	-10.000 -9.950 -8.450 -3.600 -3.000 0.000 3.000 3.600 5.069 5.519 8.450 9.950 10.000

HANSEL AVENUE CH 422.89



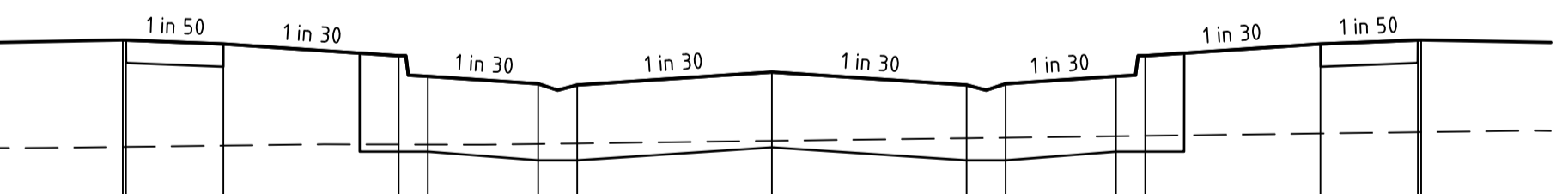
DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.109 36.108 36.078 35.835 35.750 35.835 35.835 36.078 36.088 36.099 36.088 36.099
EXISTING SURFACE LEVEL	35.058 35.058 35.066 35.006 35.004 35.013 35.038 35.043 35.058 35.058 35.094 35.094 35.094
OFFSET	-10.000 -9.950 -8.450 -3.600 -3.000 0.000 3.000 3.600 8.450 9.950 10.000

HANSEL AVENUE CH 419.56



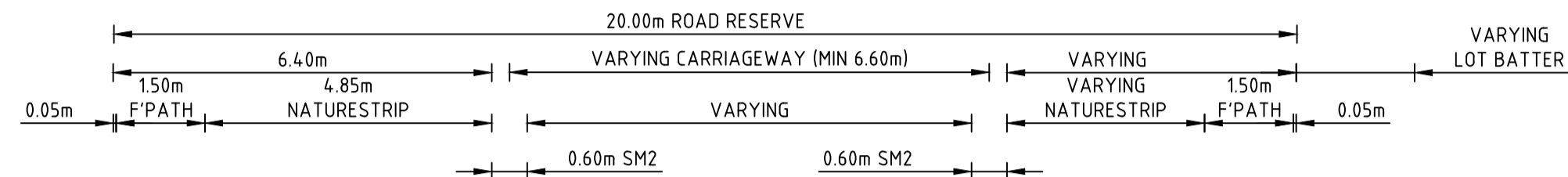
DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	36.138 36.137 36.107 35.864 35.779 35.864 35.779 36.107 36.137 36.138 36.137 36.138
EXISTING SURFACE LEVEL	35.035 35.035 35.045 35.047 35.049 35.059 35.071 35.071 35.071 35.071 35.071 35.071 35.071
OFFSET	-10.000 -9.950 -8.450 -3.600 -3.000 0.000 3.000 3.600 8.450 9.950 10.000

HANSEL AVENUE CH 406.37



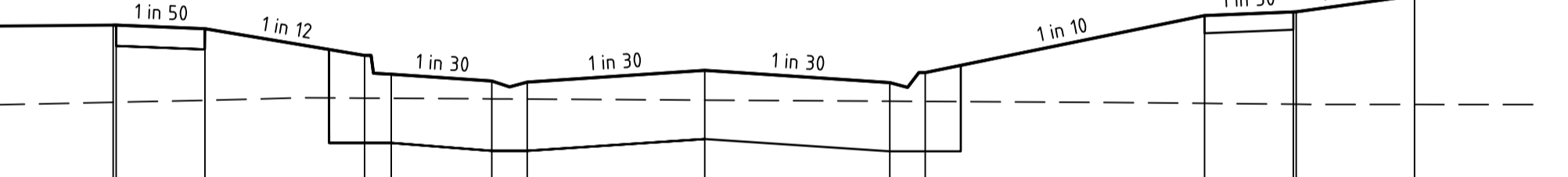
DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	35.666 35.665 35.635 35.515 35.386 35.329 35.319 35.519 35.319 35.329 35.386 35.515 35.666 35.665 35.666
EXISTING SURFACE LEVEL	34.843 34.843 34.852 34.861 34.860 34.865 34.869 34.889 34.909 34.913 34.925 34.928 34.956 34.956 34.956
OFFSET	-10.000 -9.950 -8.450 -5.750 -5.300 -3.600 -3.000 0.000 3.000 3.600 5.300 5.750 8.450 9.950 10.000

HANSEL AVENUE CH 372.50



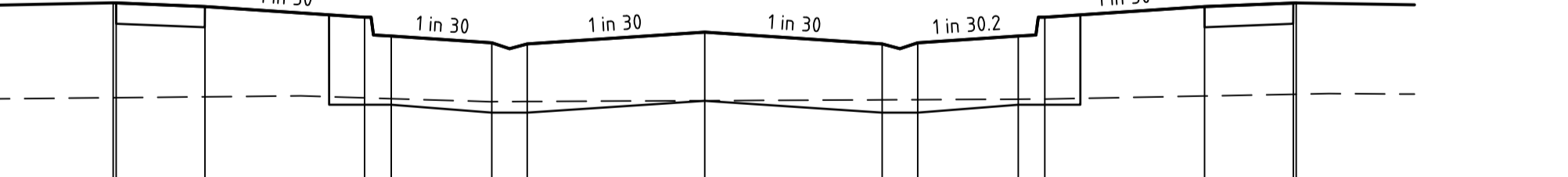
DATUM R.L. 33.0	
DESIGN SURFACE LEVEL	35.974 35.973 35.943 35.458 35.373 35.473 35.322 35.407 35.748 35.778 35.779 36.099
EXISTING SURFACE LEVEL	35.278 35.279 35.291 35.320 35.318 35.309 35.316 35.317 35.323 35.325 35.326 35.327
OFFSET	-10.000 -9.950 -8.450 -3.600 -3.000 0.000 4.511 5.111 8.450 9.950 10.000 12.000

HANSEL AVENUE CH 500.40



DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	35.901 35.900 35.870 35.644 35.485 35.429 35.419 35.519 35.414 35.499 35.981 36.011 36.012 36.150
EXISTING SURFACE LEVEL	35.249 35.249 35.265 35.284 35.283 35.278 35.276 35.267 35.258 35.256 35.240 35.232 35.232 35.230
OFFSET	-10.000 -9.950 -8.450 -5.750 -5.300 -3.600 -3.000 0.000 3.129 3.729 8.450 9.950 10.000 12.000

HANSEL AVENUE CH 485.90

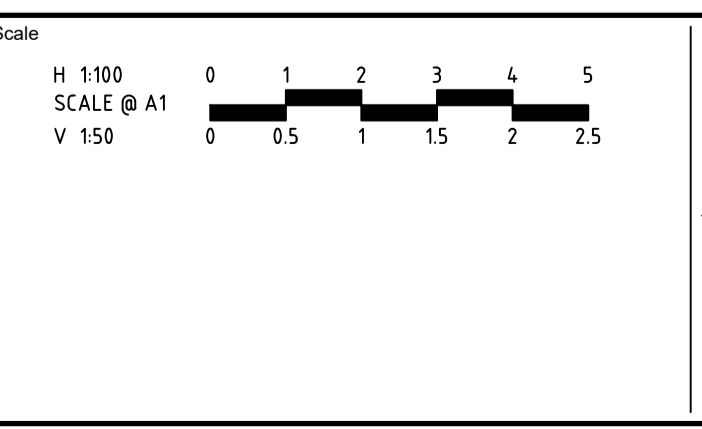


DATUM R.L. 34.0	
DESIGN SURFACE LEVEL	35.950 35.949 35.919 35.829 35.670 35.613 35.603 35.703 35.603 35.613 35.670 35.829 35.919 35.949 35.950
EXISTING SURFACE LEVEL	35.149 35.149 35.157 35.168 35.141 35.116 35.117 35.124 35.131 35.133 35.137 35.138 35.164 35.178 35.179
OFFSET	-10.000 -9.950 -8.450 -5.750 -5.300 -3.600 -3.000 0.000 3.000 3.600 5.300 5.750 8.450 9.950 10.000

HANSEL AVENUE CH 449.00

file name: 310306CR400.dwg, layout name: CR401, plotted by: Saurav, Sshob, file location: \\spiremedia\data\310306\310306.dwg, plot date: 18/10/2023 12:13 PM, Sheet 9 of 30 Sheets

Rev	Amendments	Approved	Date
D	REVISED LABEL	B.W.	26/09/2023
C	UPDATED CROSS SECTIONS	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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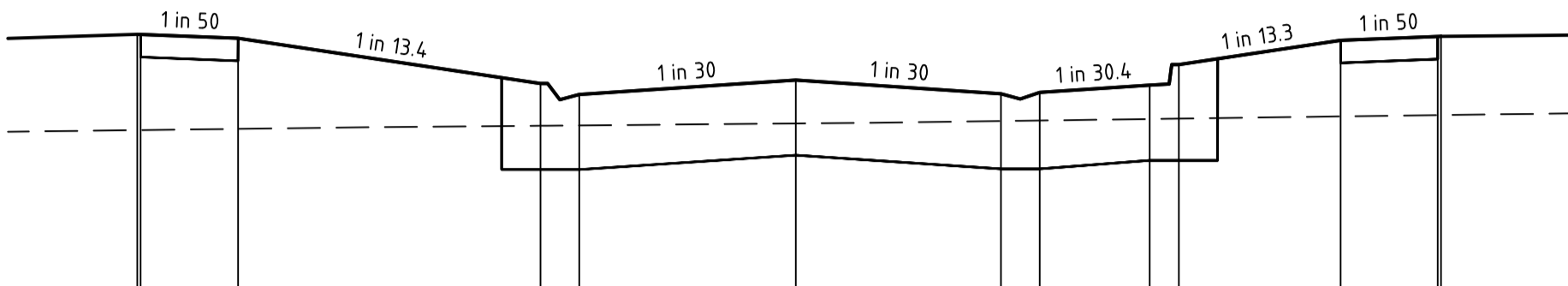
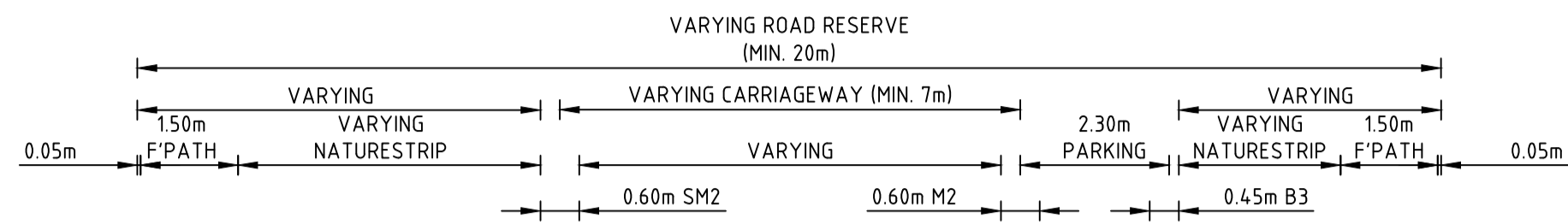
1/126 ALBERT ROAD WARRAGUL
 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
 spiire.com.au ABN 55 050 029 635

Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310306CR401 Rev: D

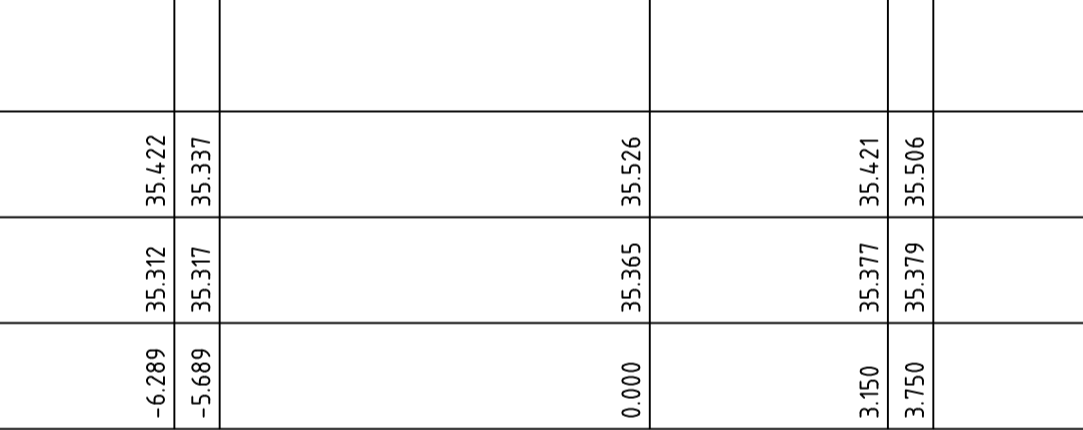
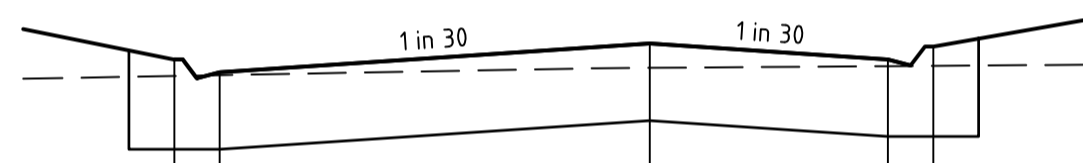
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 10 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



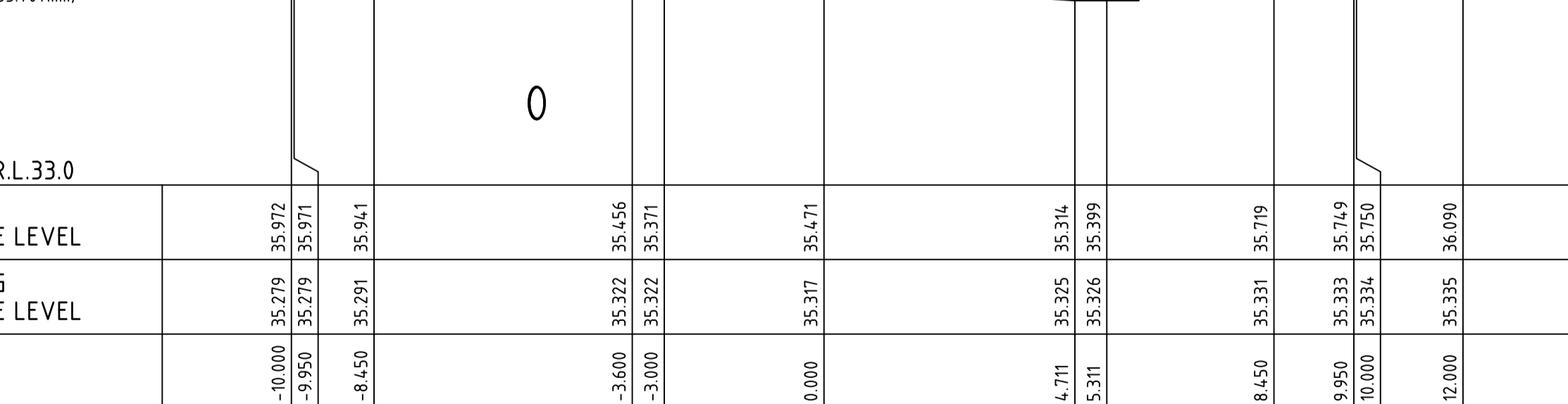
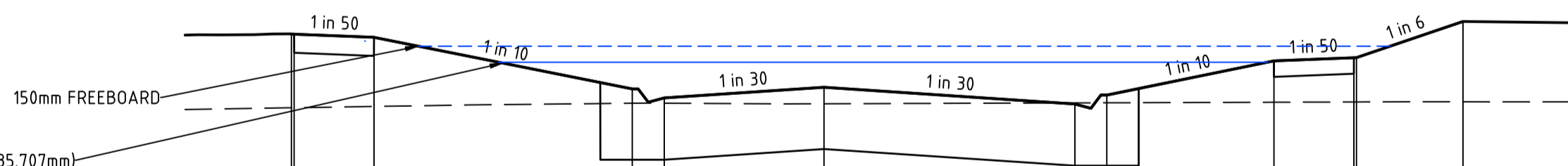
DATUM R.L.32.0	
DESIGN SURFACE LEVEL	35.960 35.959 35.929 35.580 35.495 35.606 35.500 35.510 35.566 35.725 35.913 35.943 35.944
EXISTING SURFACE LEVEL	35.219 35.220 35.229 35.253 35.256 35.271 35.294 35.294 35.305 35.308 35.325 35.335 35.336
OFFSET	-10.176 -10.126 -8.619 -3.946 -3.346 0.000 3.170 3.770 5.470 5.920 8.419 9.921 9.972

HANSEL AVENUE CH 543.33



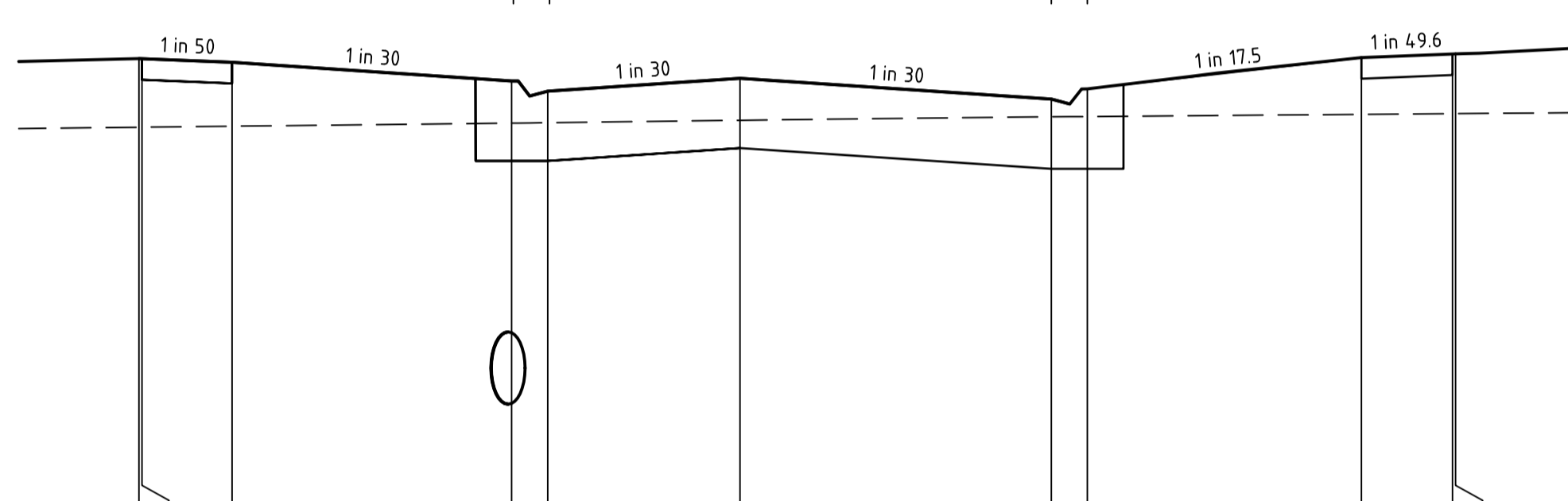
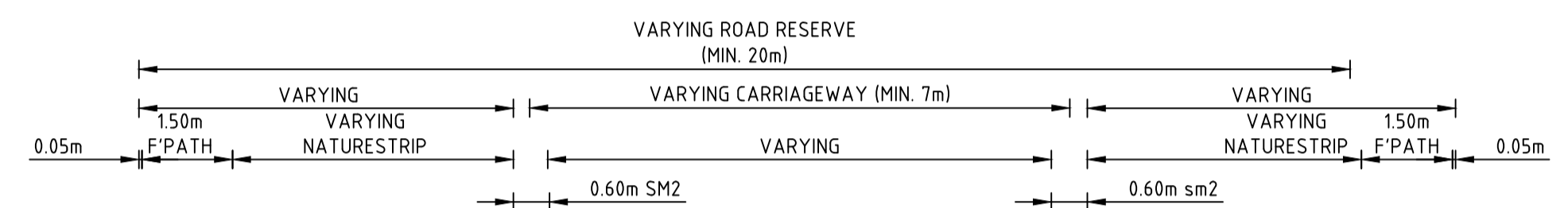
DATUM R.L.34.0	
DESIGN SURFACE LEVEL	35.422 35.337 35.526 35.421 35.506
EXISTING SURFACE LEVEL	35.312 35.317 35.365 35.377 35.379
OFFSET	-6.289 -5.689 0.000 3.150 3.150

HANSEL AVENUE CH 527.35



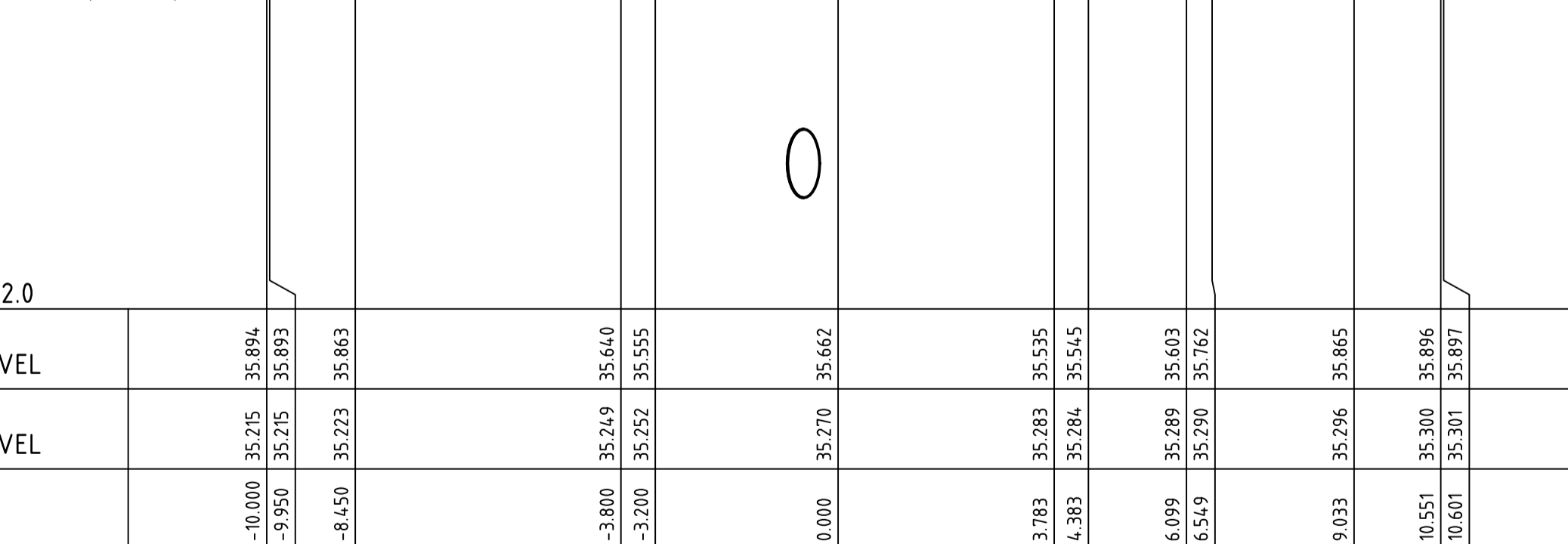
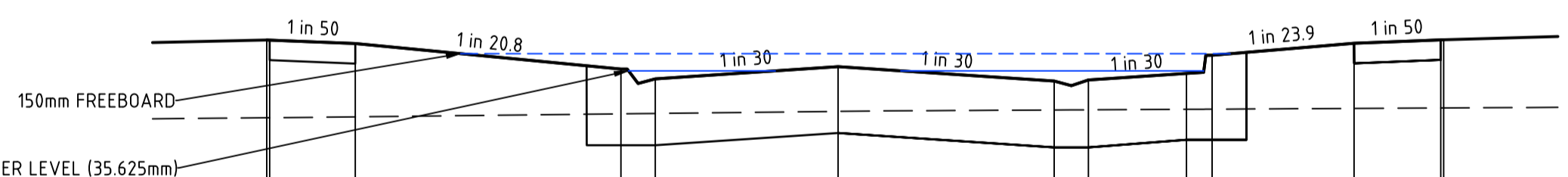
DATUM R.L.33.0	
DESIGN SURFACE LEVEL	35.972 35.971 35.941 35.456 35.371 35.471 35.719 35.749 35.750 36.090
EXISTING SURFACE LEVEL	35.279 35.279 35.291 35.322 35.322 35.317 35.331 35.333 35.334 35.335
OFFSET	-10.000 -9.950 -8.450 -3.600 -3.000 0.000 8.450 9.950 10.000 12.000

HANSEL AVENUE CH 501.71



DATUM R.L.32.0	
DESIGN SURFACE LEVEL	35.789 35.788 35.768 35.613 35.528 35.634 35.462 35.547 35.807 35.837 35.838
EXISTING SURFACE LEVEL	35.228 35.228 35.768 35.262 35.266 35.286 35.315 35.317 35.335 35.341 35.341
OFFSET	-10.000 -9.950 -8.450 -3.800 -3.200 0.000 5.179 5.179 10.337 11.053 11.904

HANSEL AVENUE CH 567.40

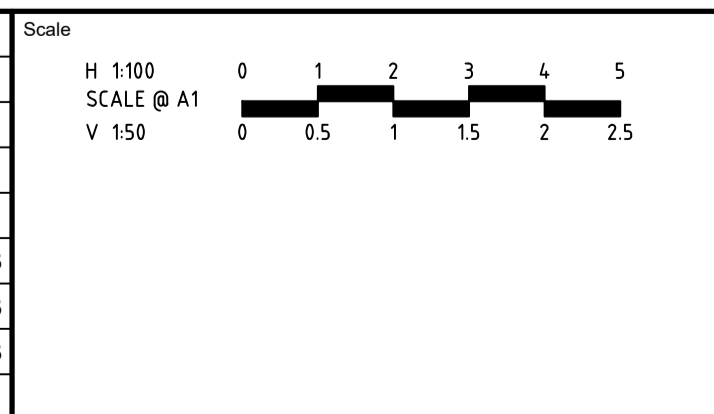


DATUM R.L.32.0	
DESIGN SURFACE LEVEL	35.894 35.893 35.863 35.640 35.555 35.662 35.535 35.545 35.603 35.762 35.865 35.896 35.897
EXISTING SURFACE LEVEL	35.215 35.215 35.223 35.249 35.252 35.270 35.283 35.284 35.289 35.290 35.296 35.300 35.300
OFFSET	-10.000 -9.950 -8.450 -3.800 -3.200 0.000 3.783 4.383 6.099 6.549 9.033 10.551 10.601

HANSEL AVENUE CH 558.84

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Rev	Description	By	Date
C	UPDATED CROSS SECTIONS AND 1% TWL	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
	Amendments	Approved	Date



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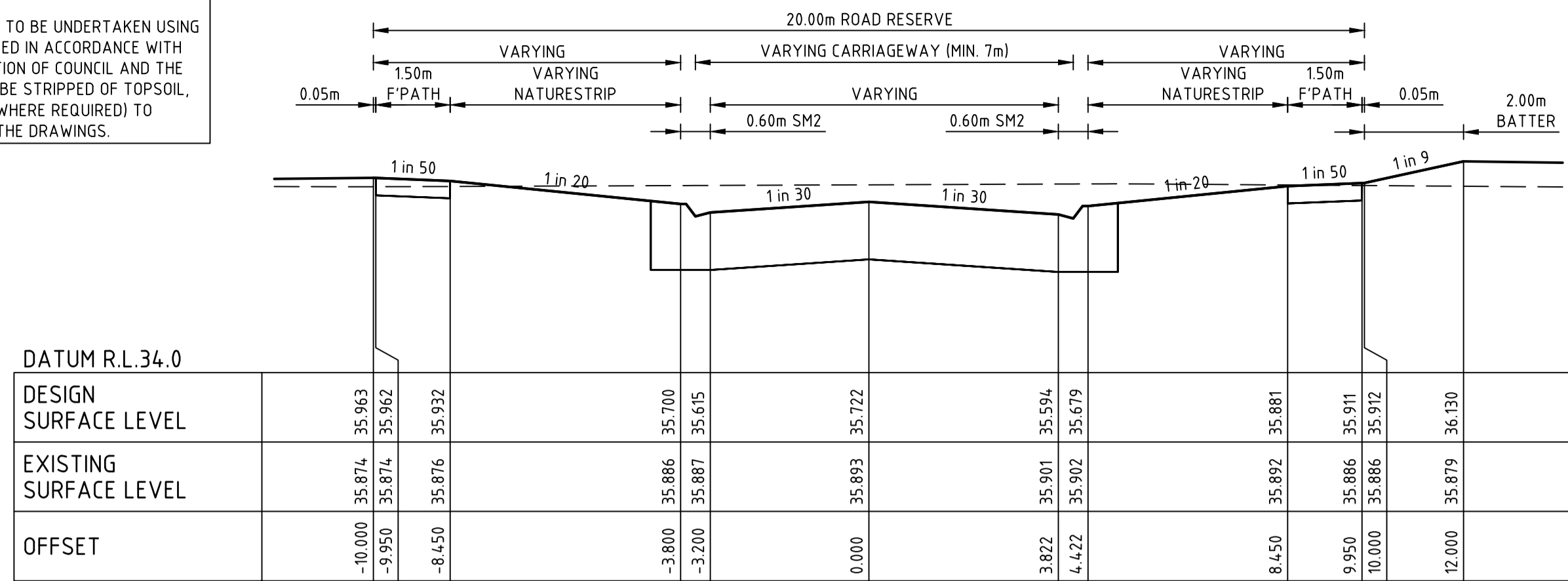
spiire
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 spiire.com.au ABN 55 050 029 635

YourLand Developments
 Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 3
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Dwg No: 310306CR402 Rev: C

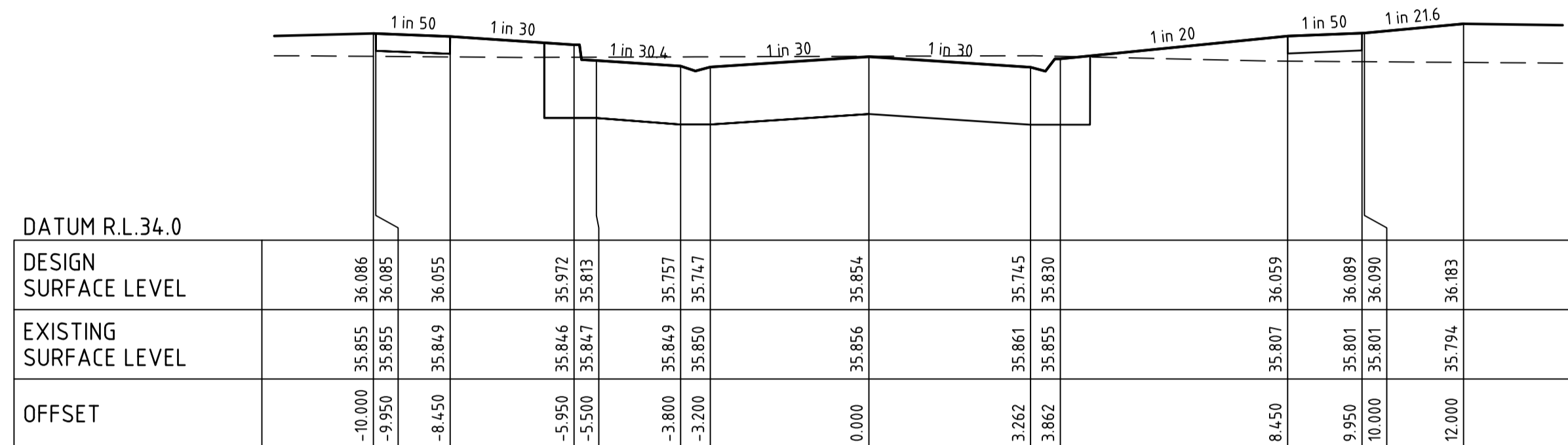
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 11 of 30
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



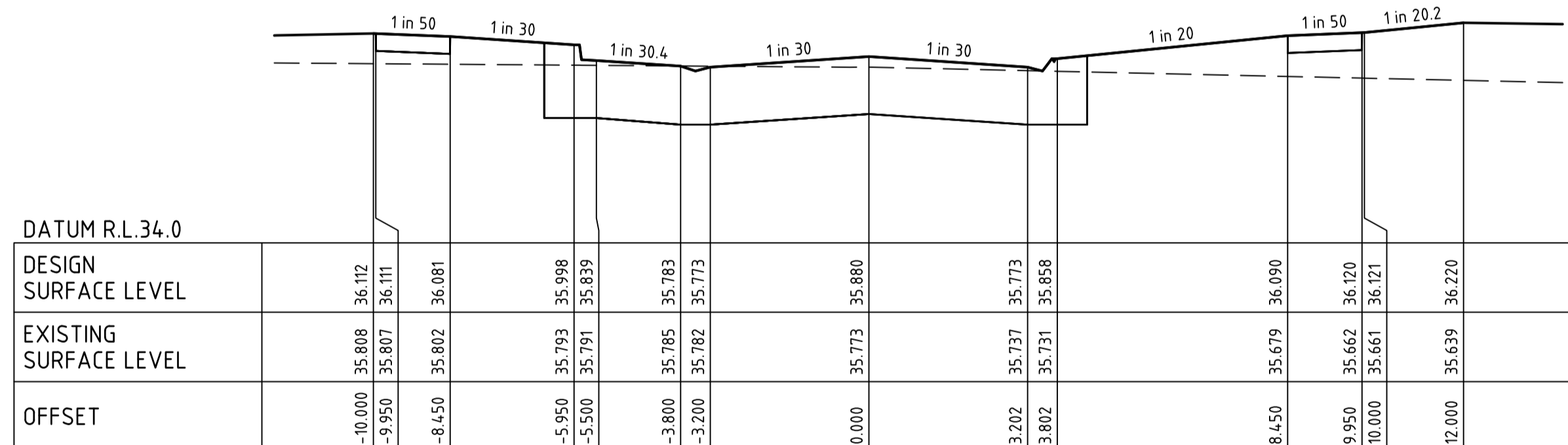
HANSEL AVENUE

CH 628.78



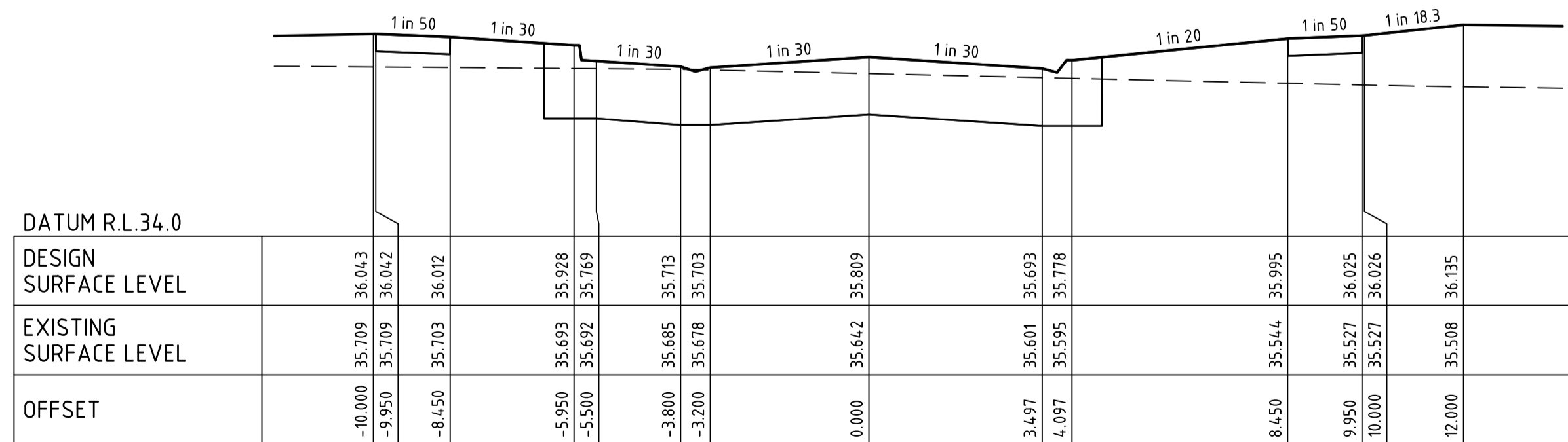
HANSEL AVENUE

CH 621.96

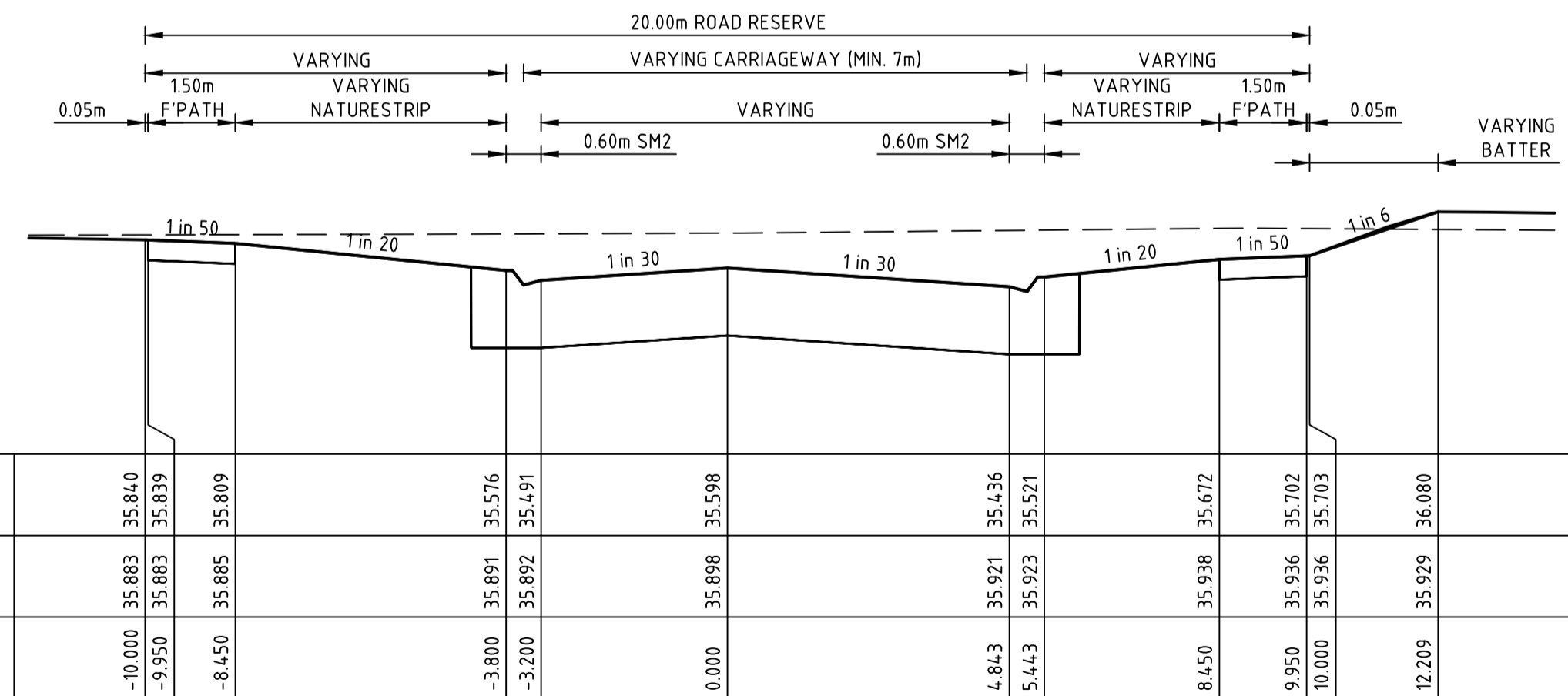


HANSEL AVENUE

CH 607.76



HANSEL AVENUE



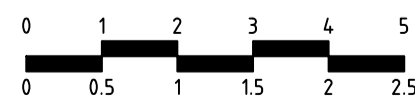
HANSEL AVENUE

CH 634.96

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Scale

H 1:100
 SCALE @ A1
 V 1:50



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Designed
 S.SALHAN
 Authorised
 B.WAREHAM

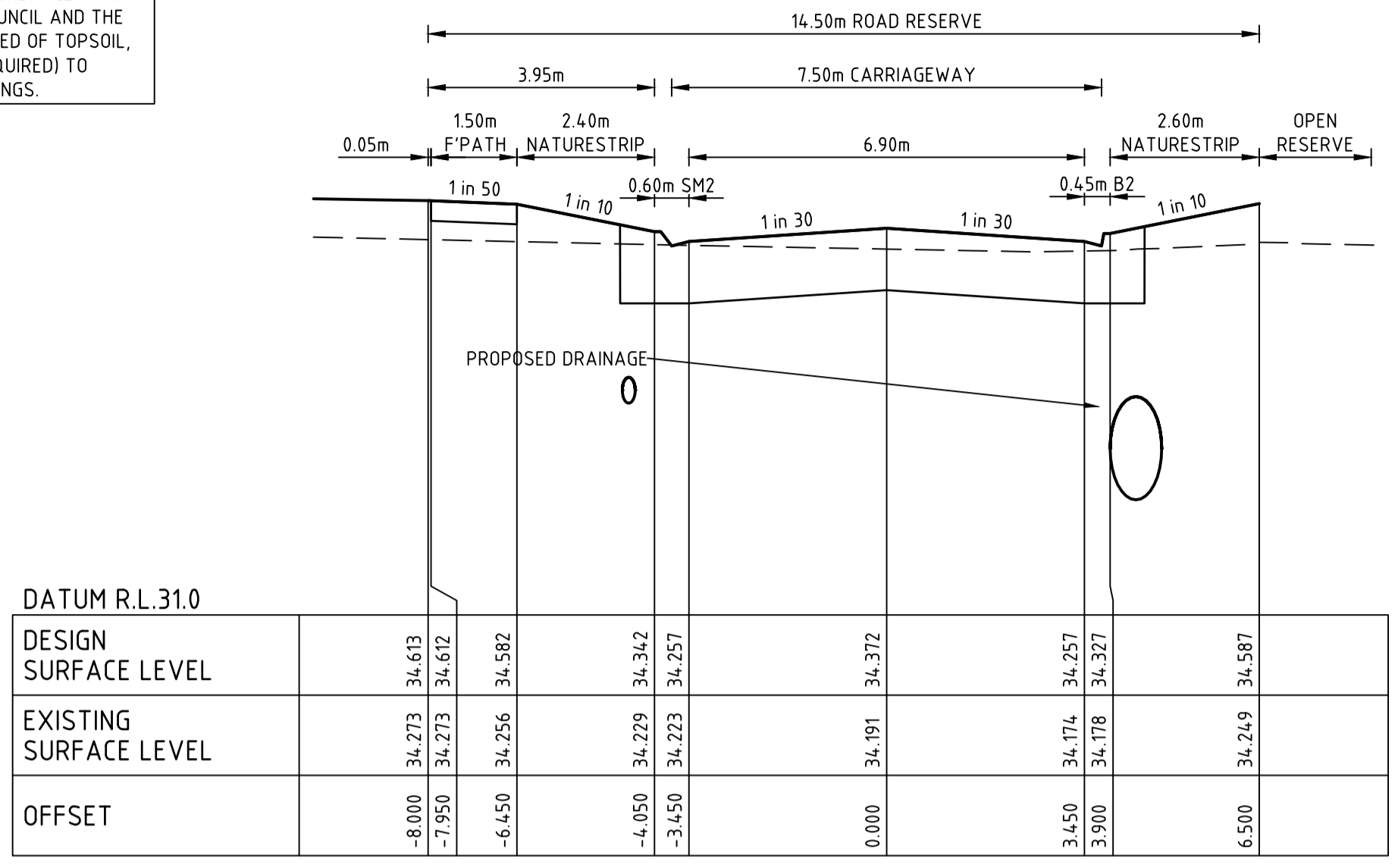
Checked
 B.IBBS
 Date
 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 4
 CARDINIA SHIRE
 YOURLAND PTY LTD**

PRELIMINARY Drg No 310306CR403 Rev D

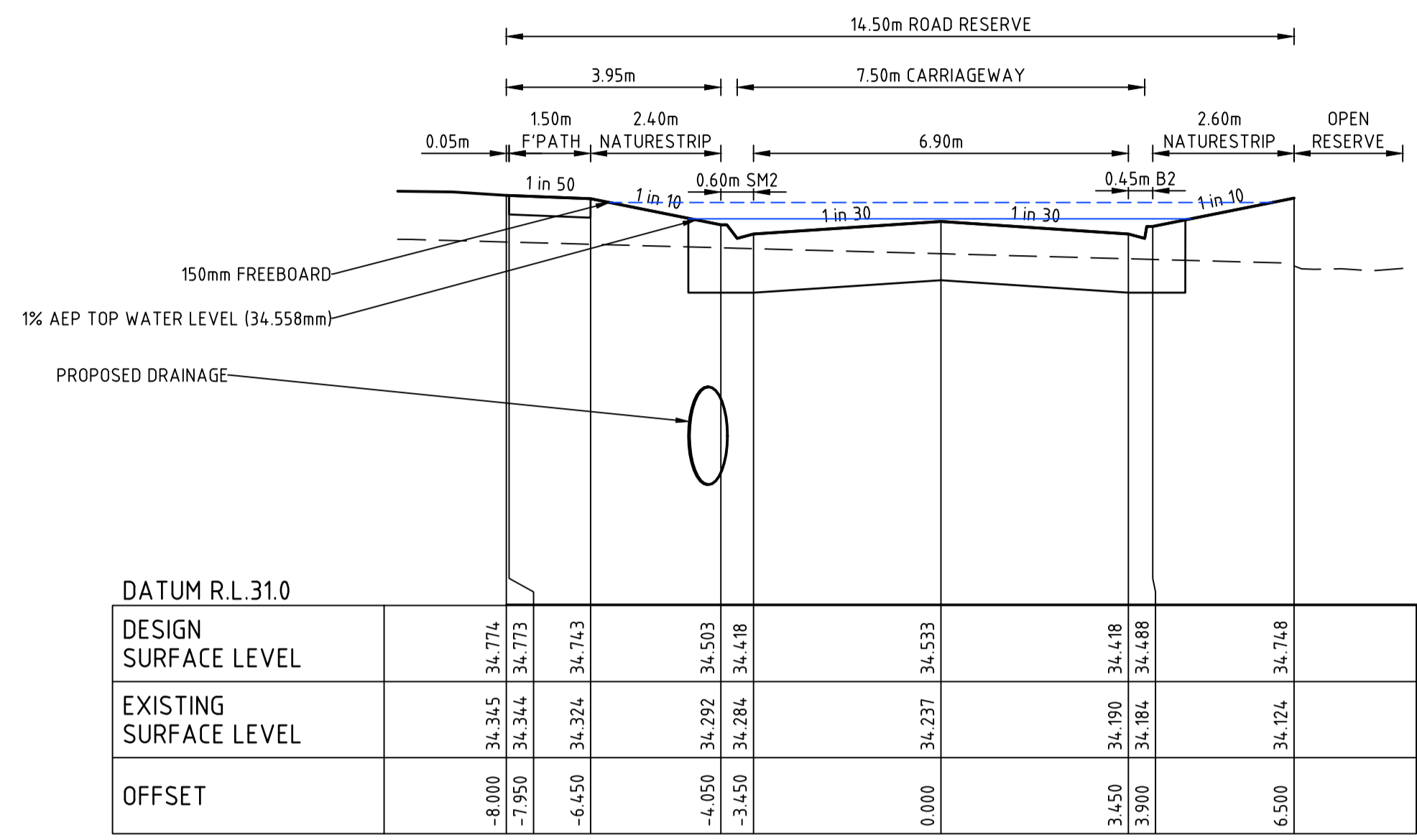
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 12 of 30
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



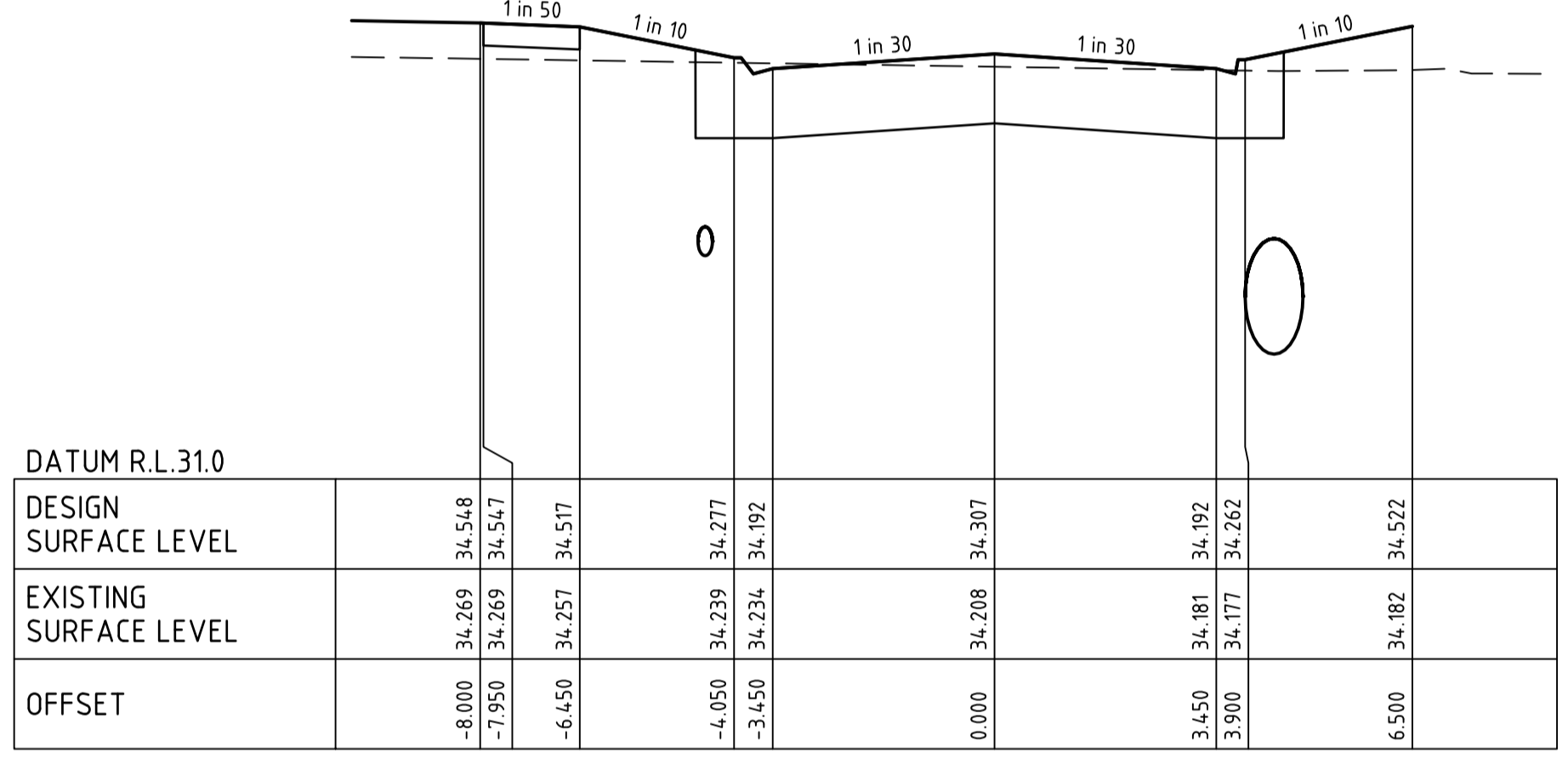
TUPY WAY

CH 35.71



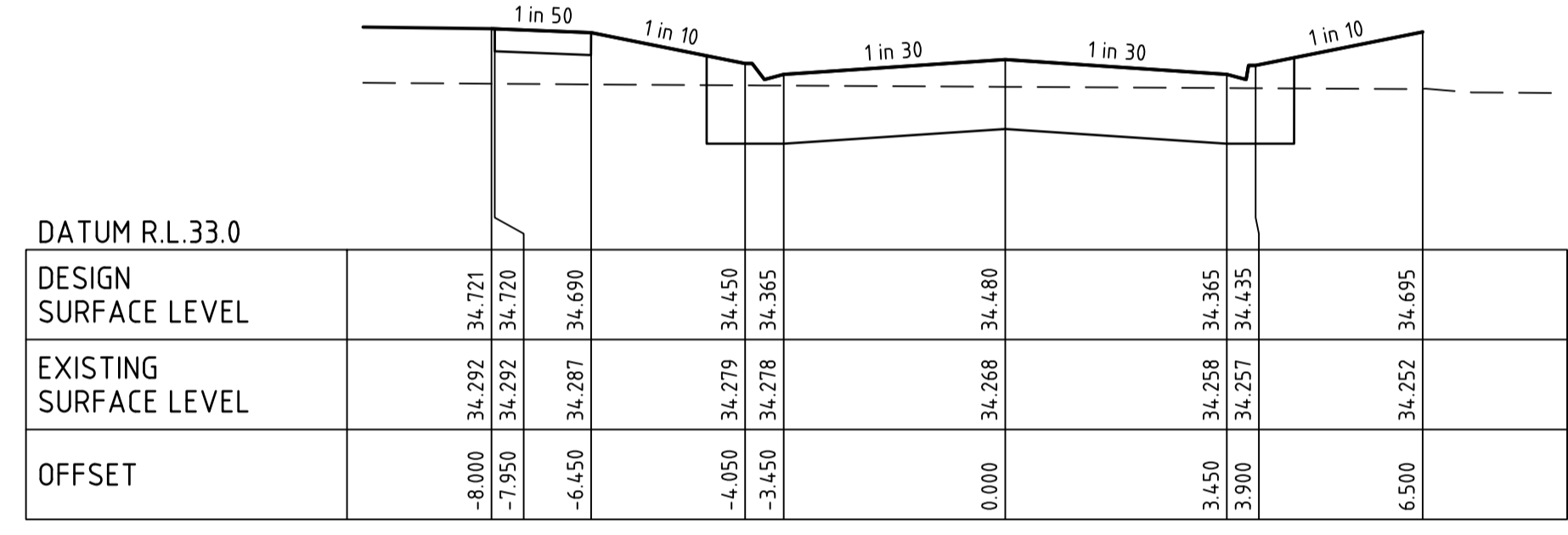
TUPY WAY

CH 67.92



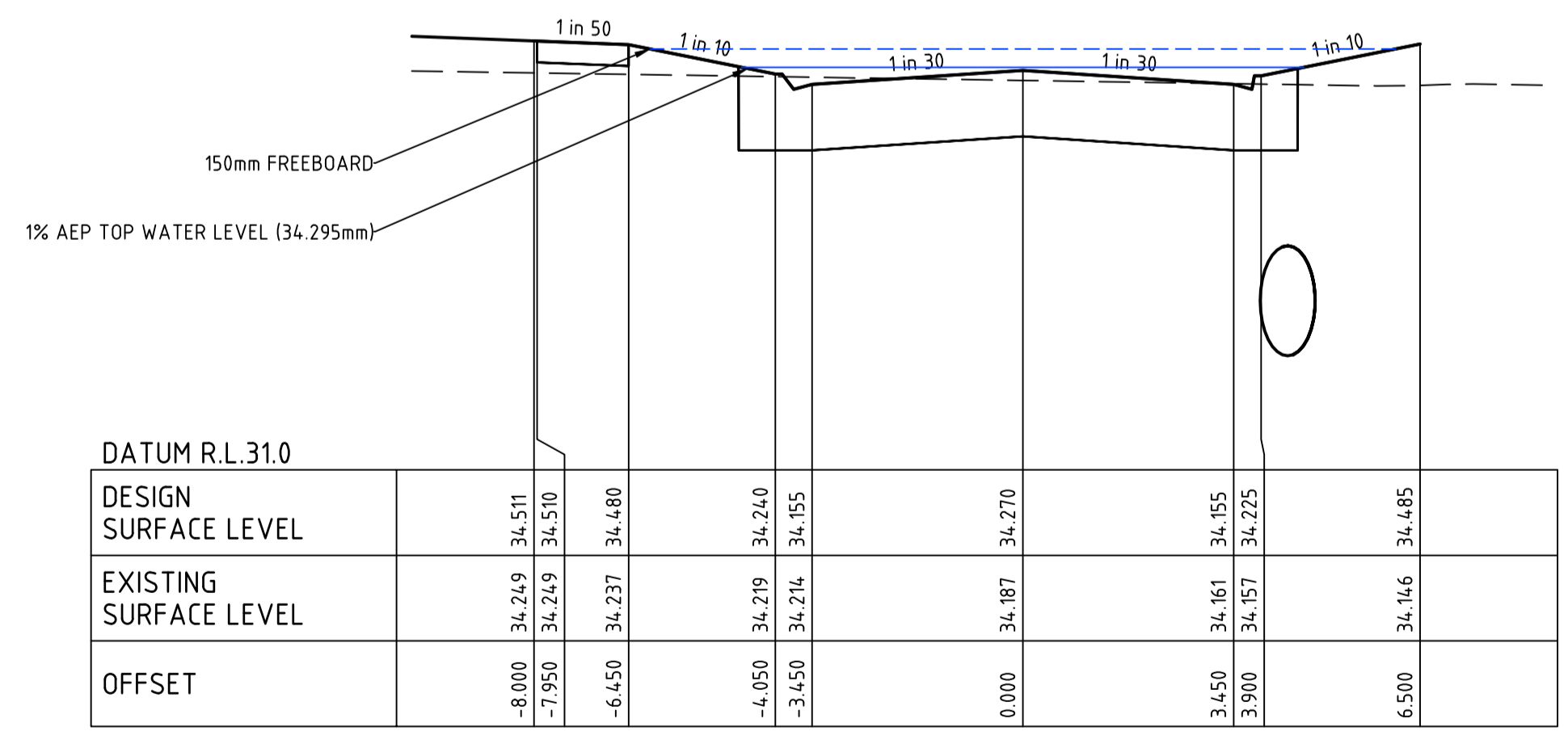
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CH 22.71



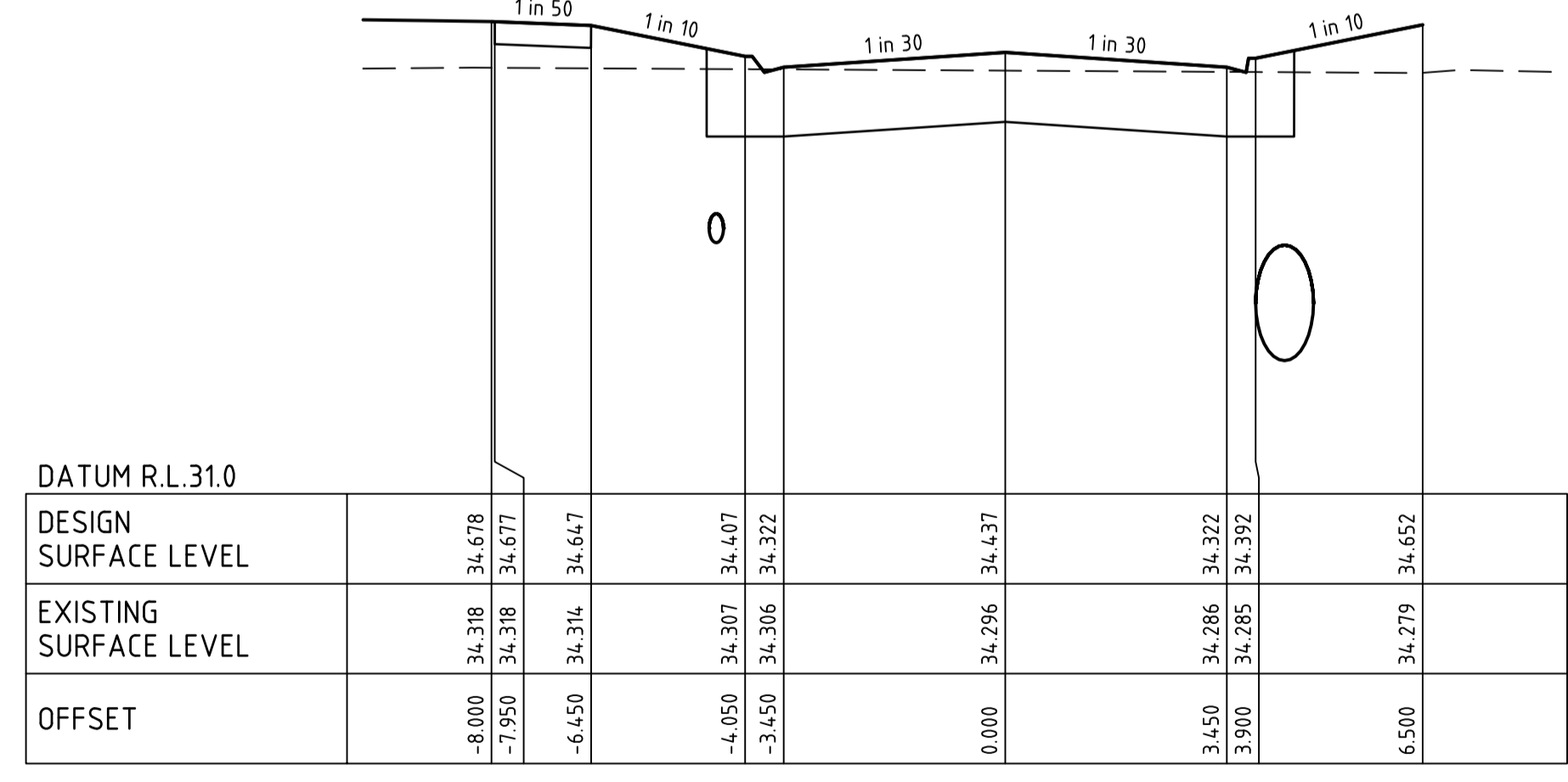
TUPY WAY

CH 57.23



TUPY WAY

CH 15.24

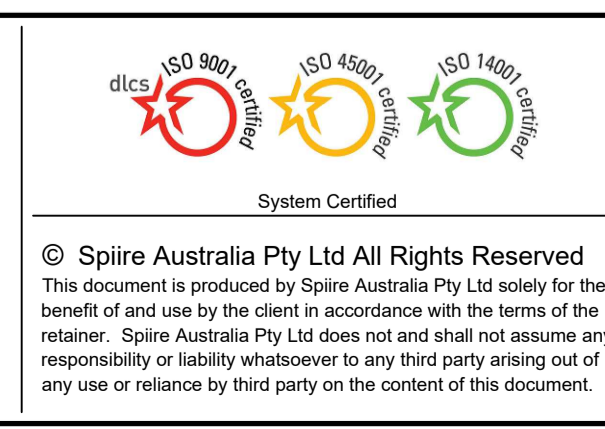
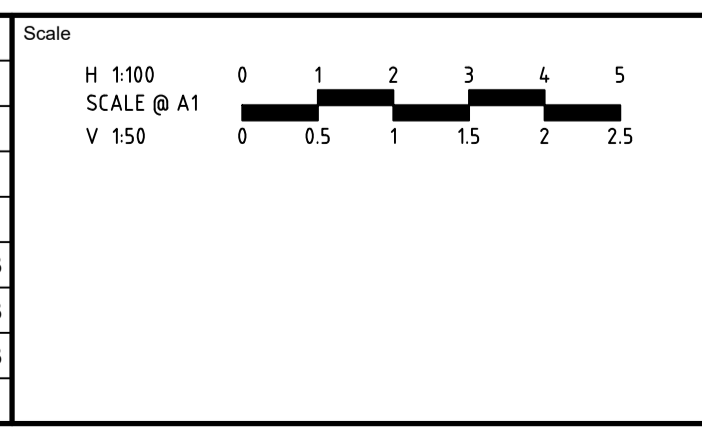


TUPY WAY

CH 48.71

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Rev	Amendments	Approved	Date
C	UPDATED CROSS SECTIONS AND 1% TWL	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



Designed
S.SALHAN

Checked
B.IBBS

Authorised
B.WAREHAM

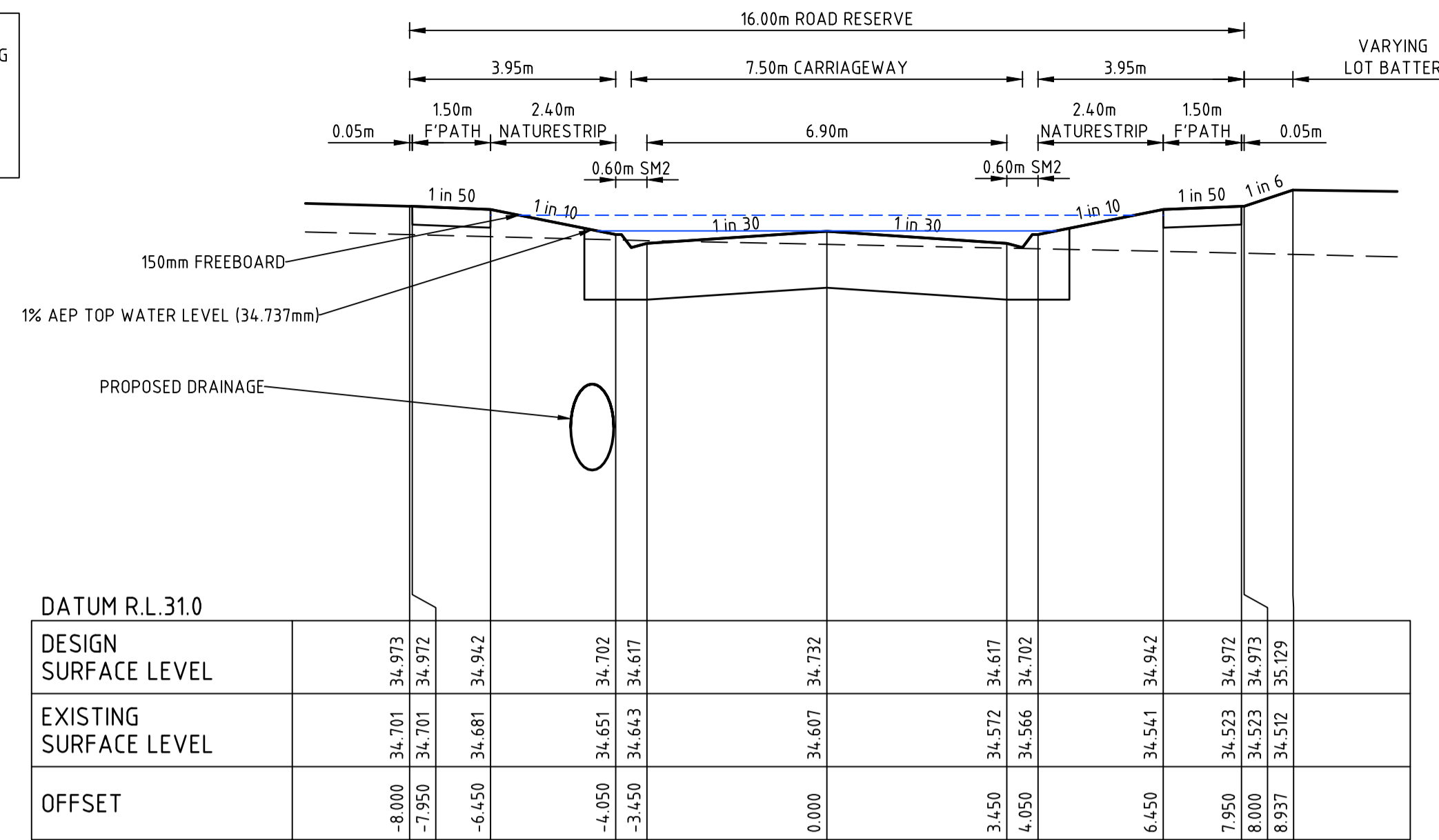
Date
 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 5
 CARDINIA SHIRE
 YOURLAND PTY LTD**

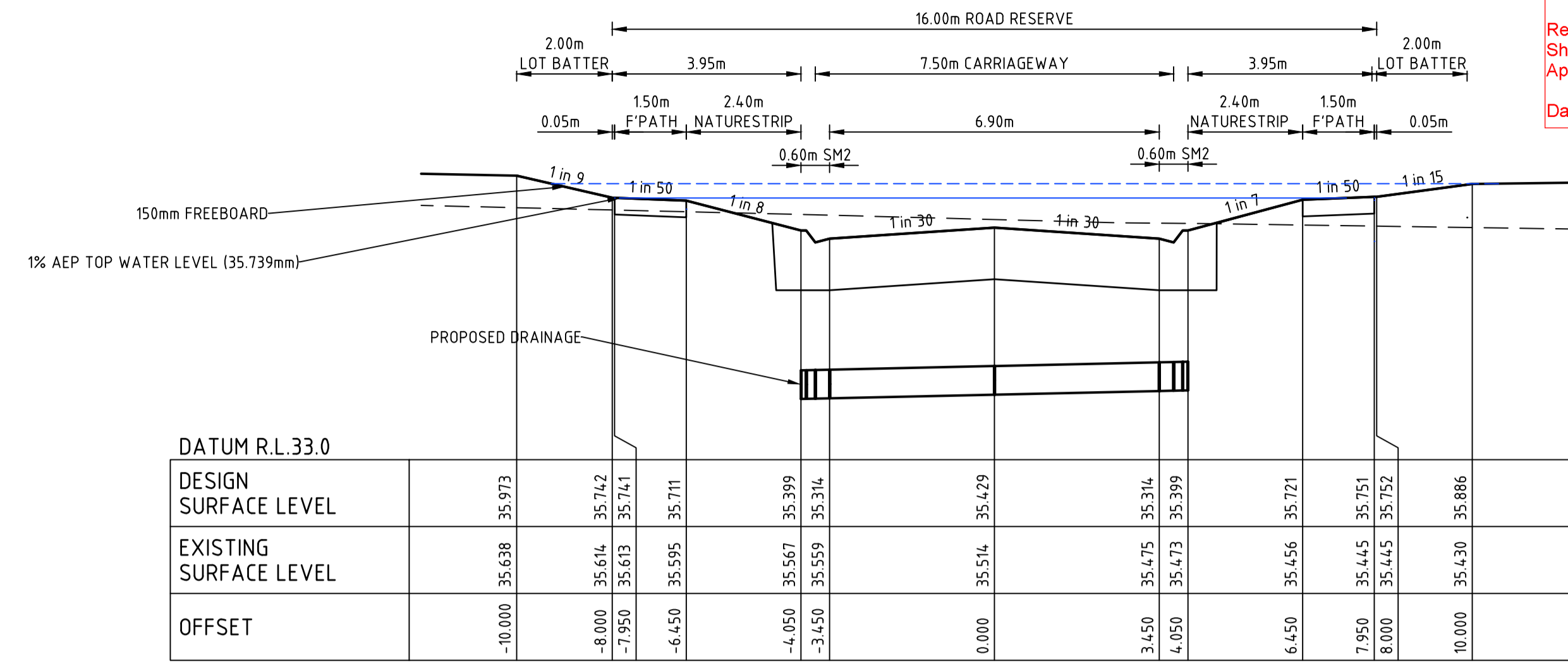
PRELIMINARY Dwg No **310306CR404** Rev **C**

FILLING NOTE
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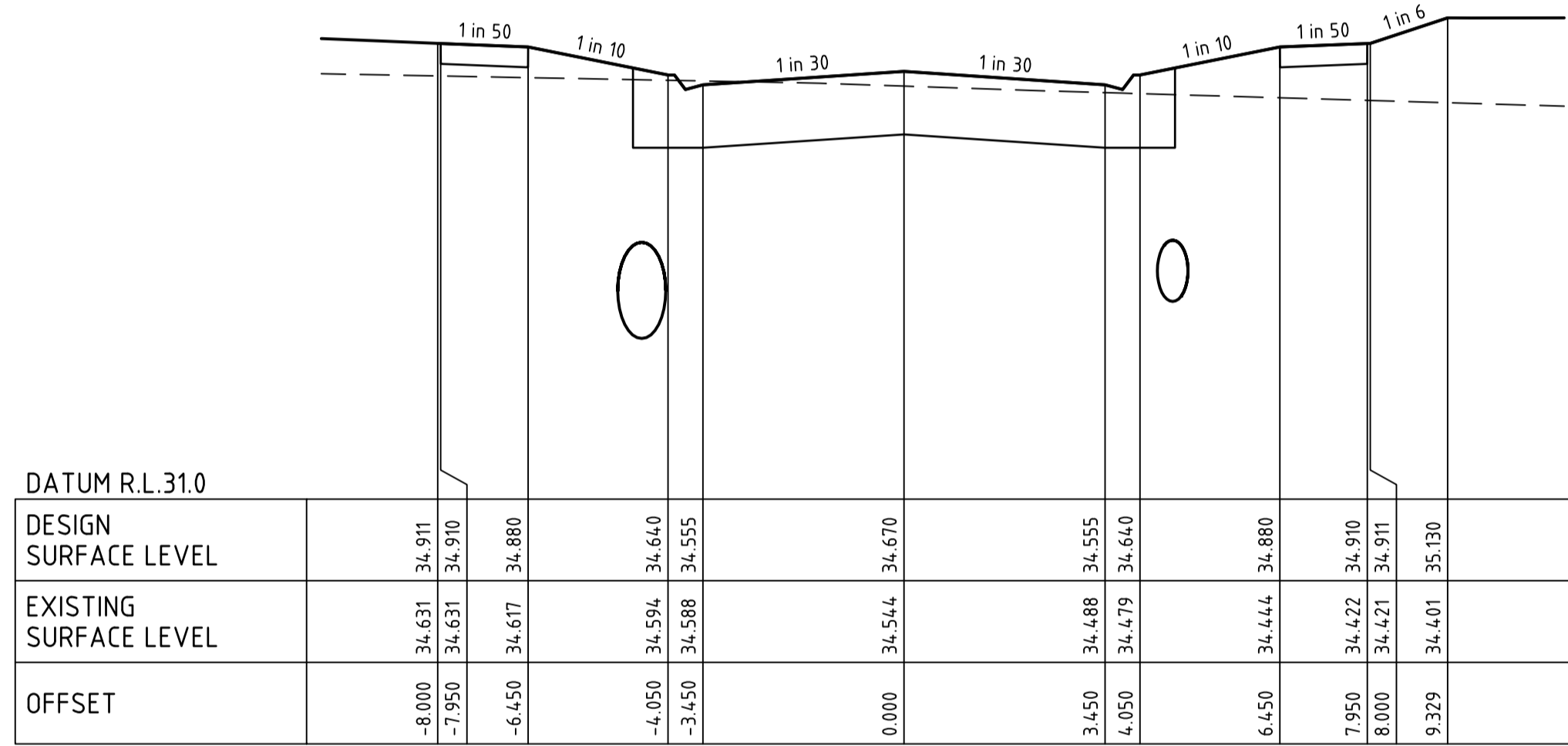
APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 13 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



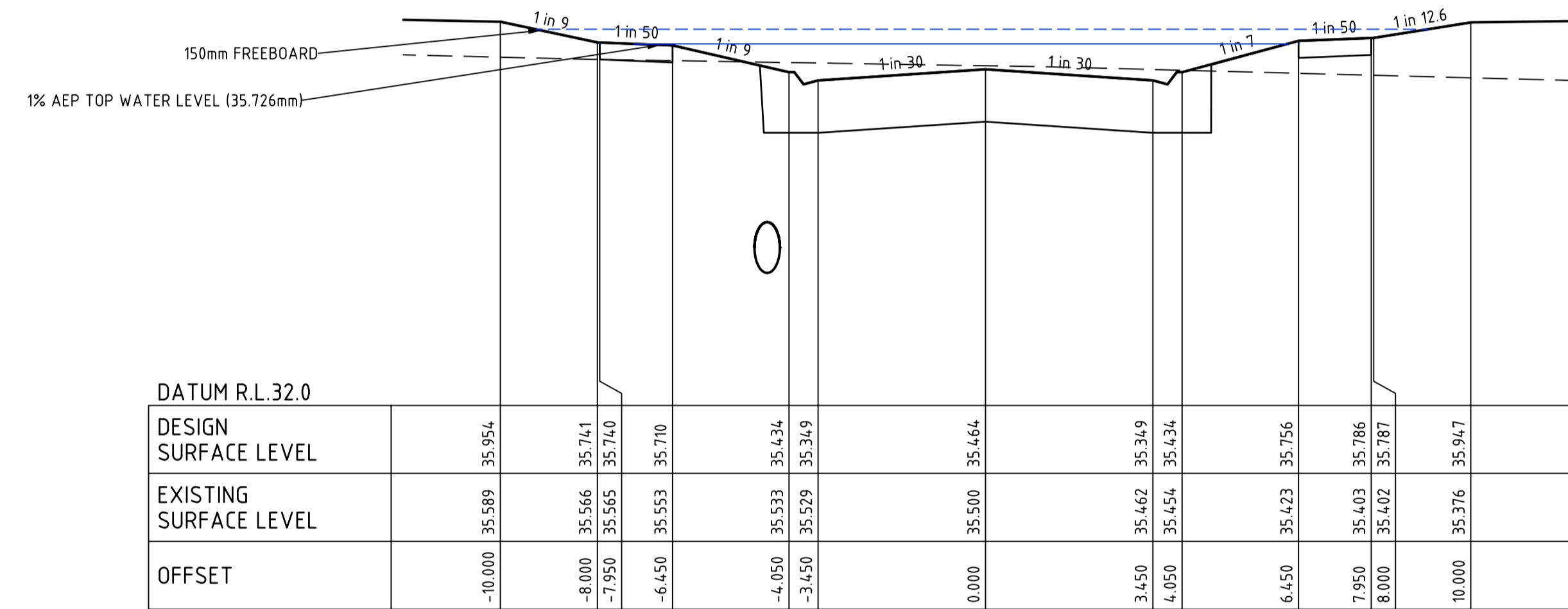
FURZE ROAD CH 37.44



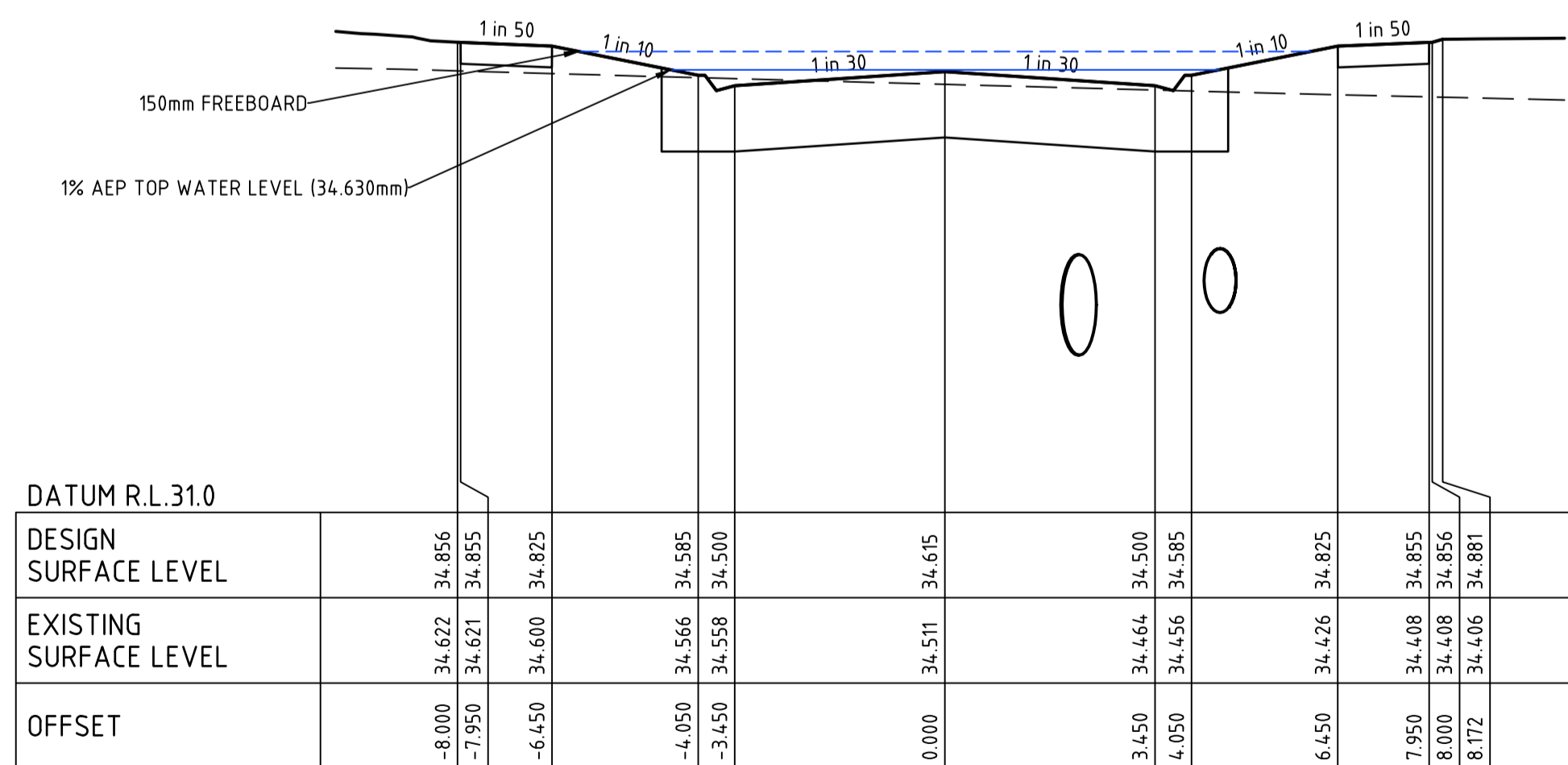
GUINEA ROAD CH 34.00



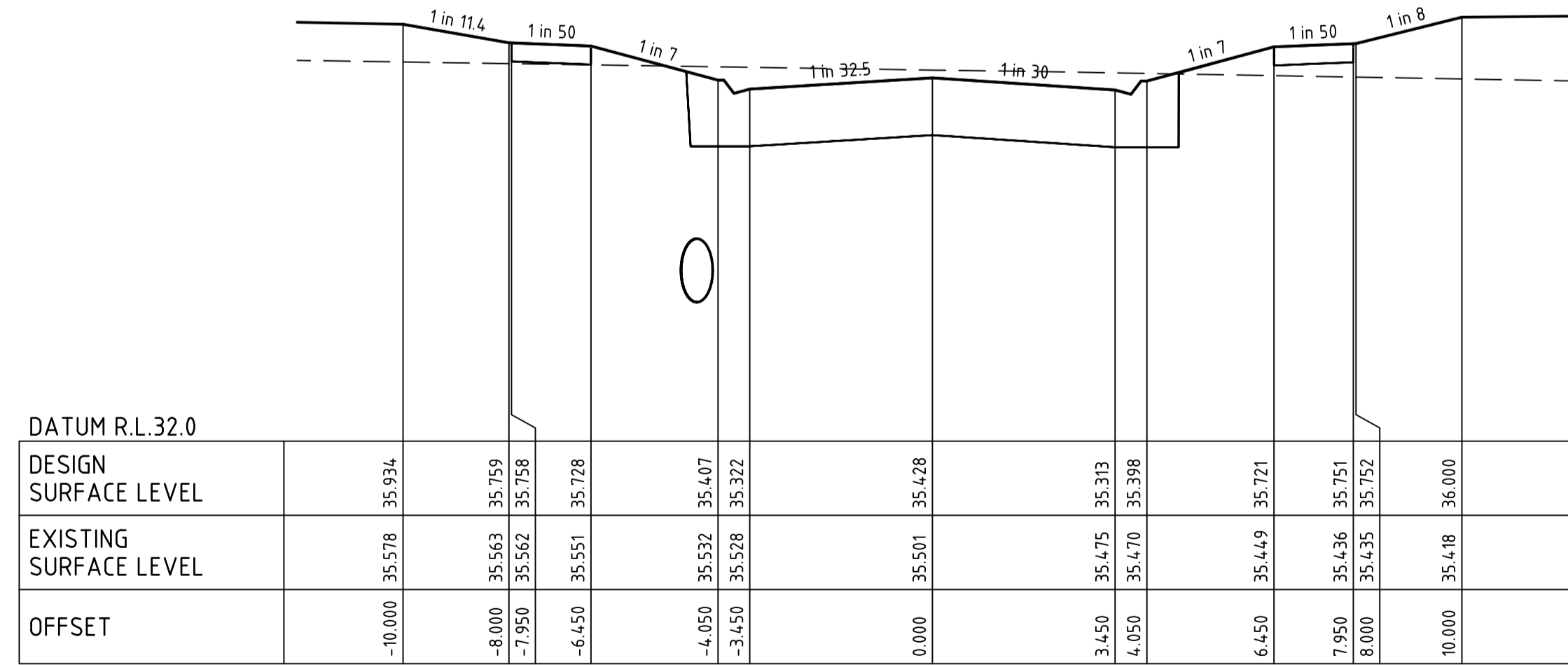
FURZE ROAD CH 24.94



GUINEA ROAD CH 25.00



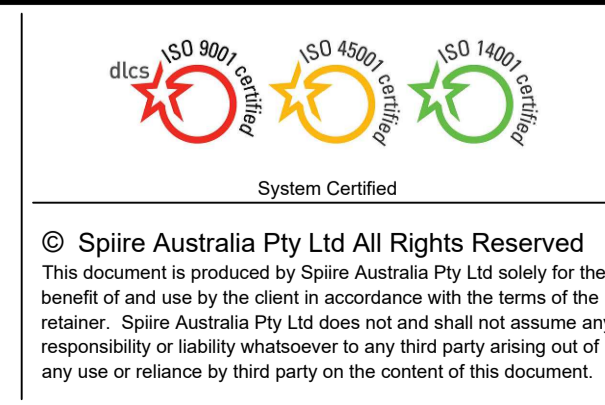
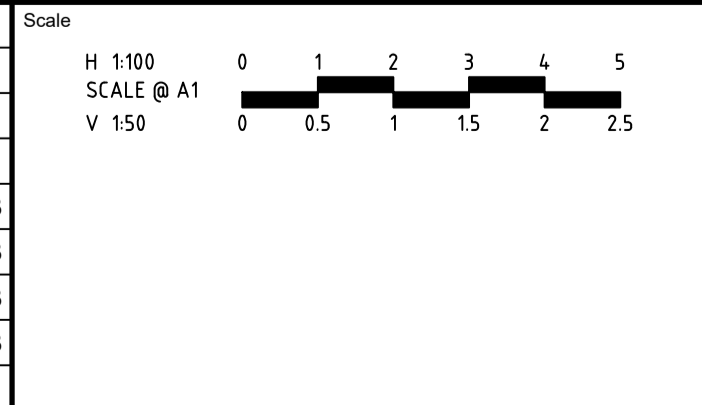
FURZE ROAD CH 14.00



GUINEA ROAD CH 17.71

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Rev	Amendments	Approved	Date
D	REVISED CROSS SECTIONS AND 1% TWL	B.W.	26/09/2023
C	UPDATED CROSS SECTIONS AND 1% TWL	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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 Authorised: B.WAREHAM

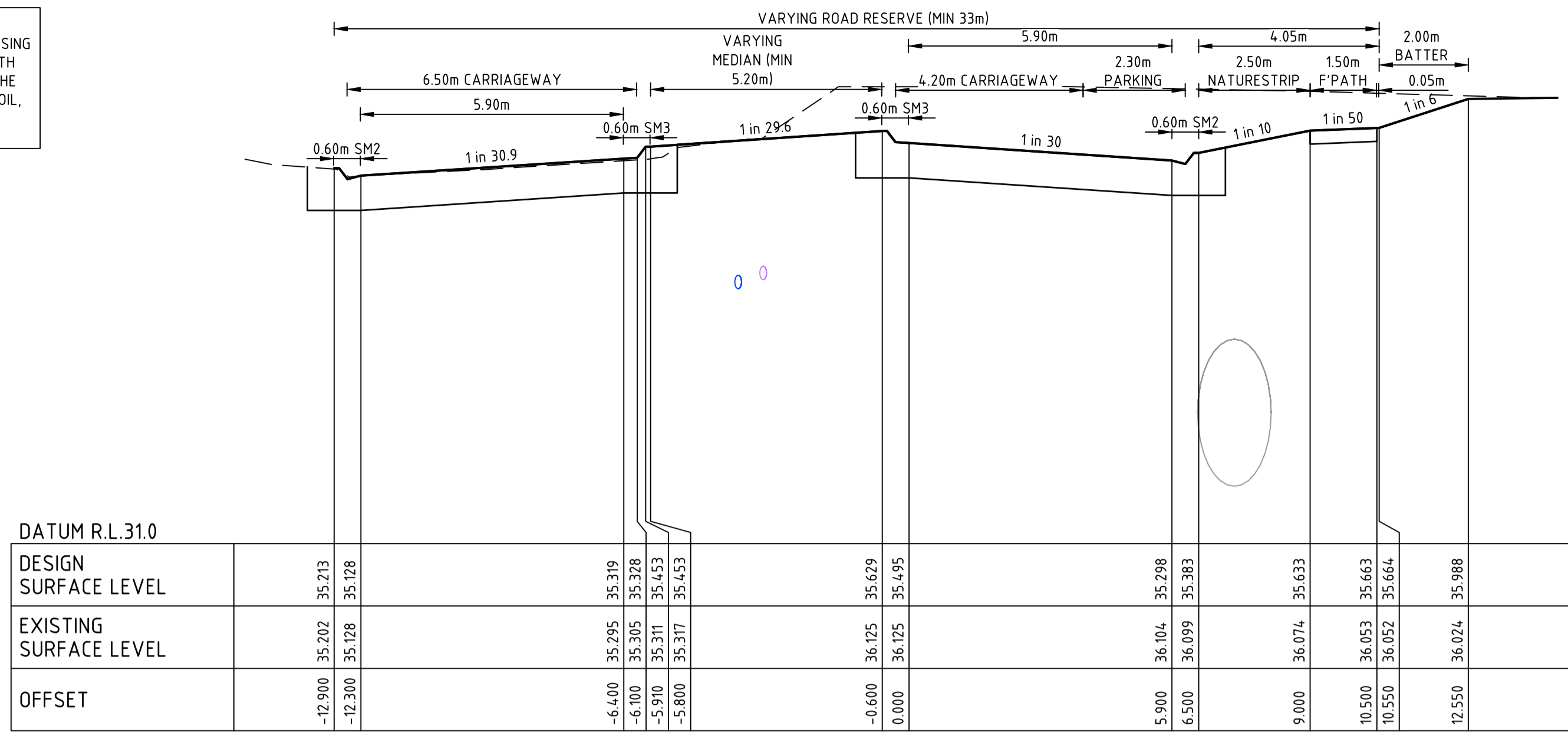
Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 6
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: 310306CR405 Rev: D

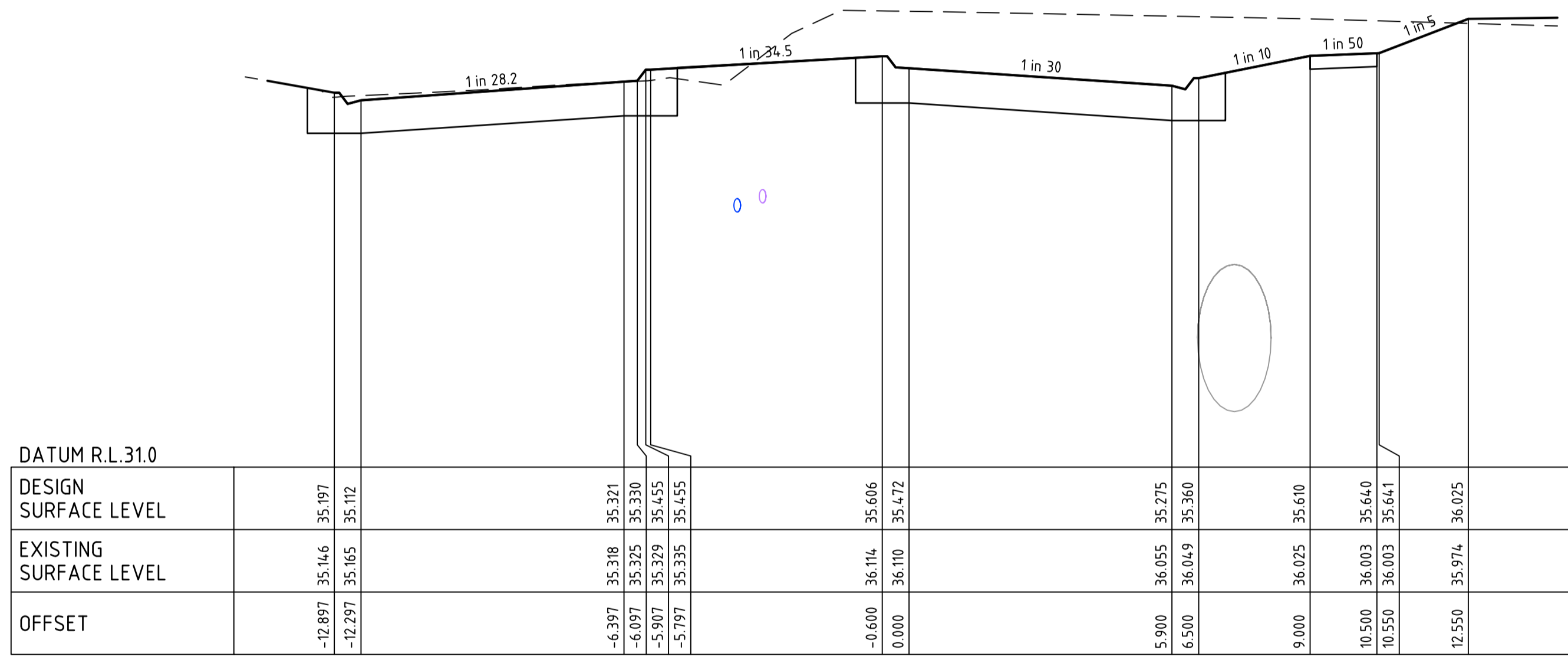
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 14 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



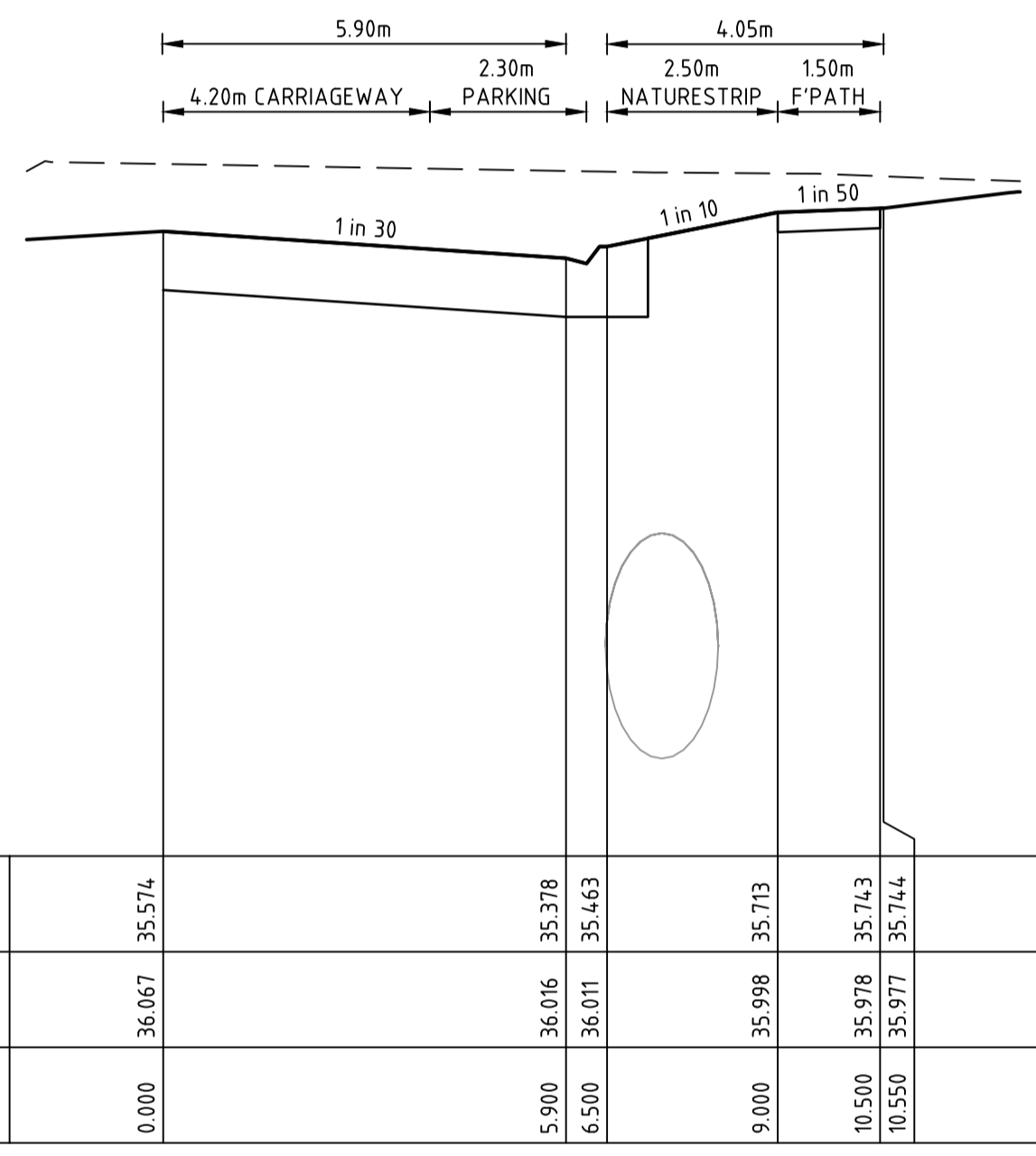
STEPHENS ROAD

CH 28.98



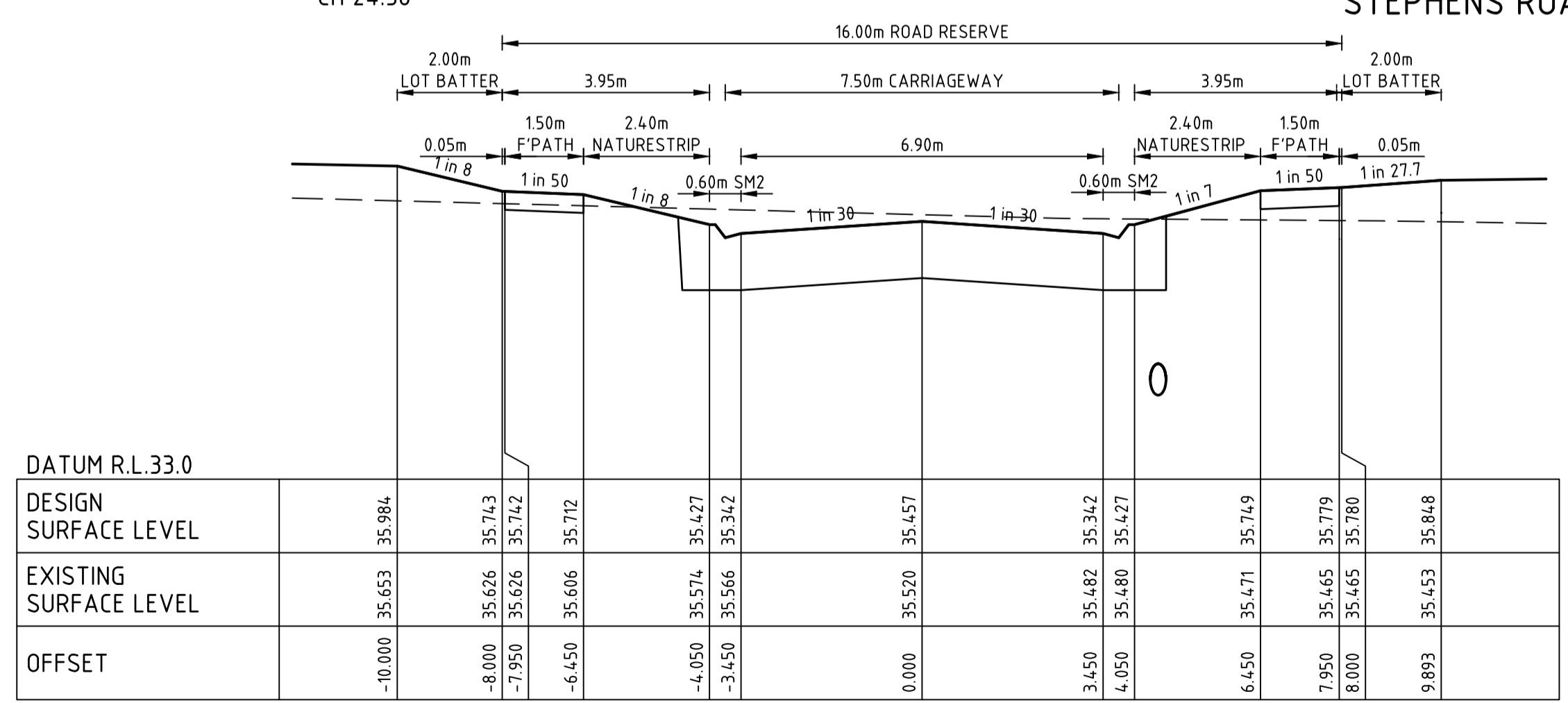
STEPHENS ROAD

CH 24.38



STEPHENS ROAD

CH 44.88

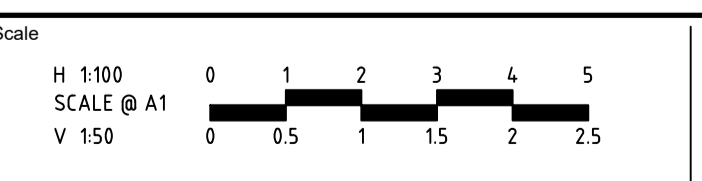


GUINEA ROAD

CH 39.55

file name: 310306CR406.dwg, layout: cross_CD, user: S23-010 - T220246, plot date: 18/10/2023, 12:13 PM, sheet: 14 of 30, sheets: 14

Rev	Amendments	Approved	Date
D	REVISED STEPHENS ROAD CROSS SECTIONS	B.W.	26/09/2023
C	UPDATED CROSS-SECTIONS	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



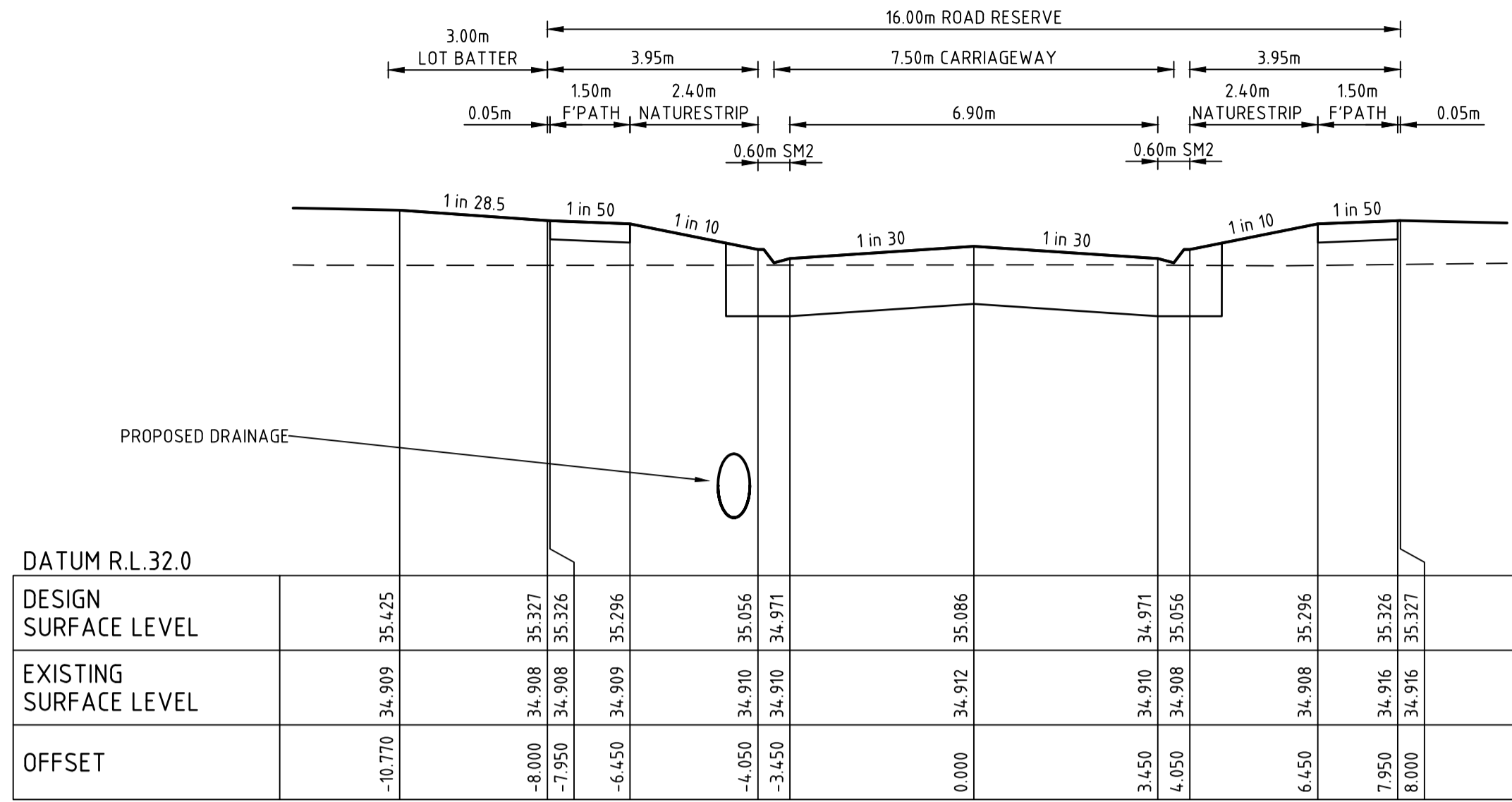
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 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 7
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310306CR406 Rev: D

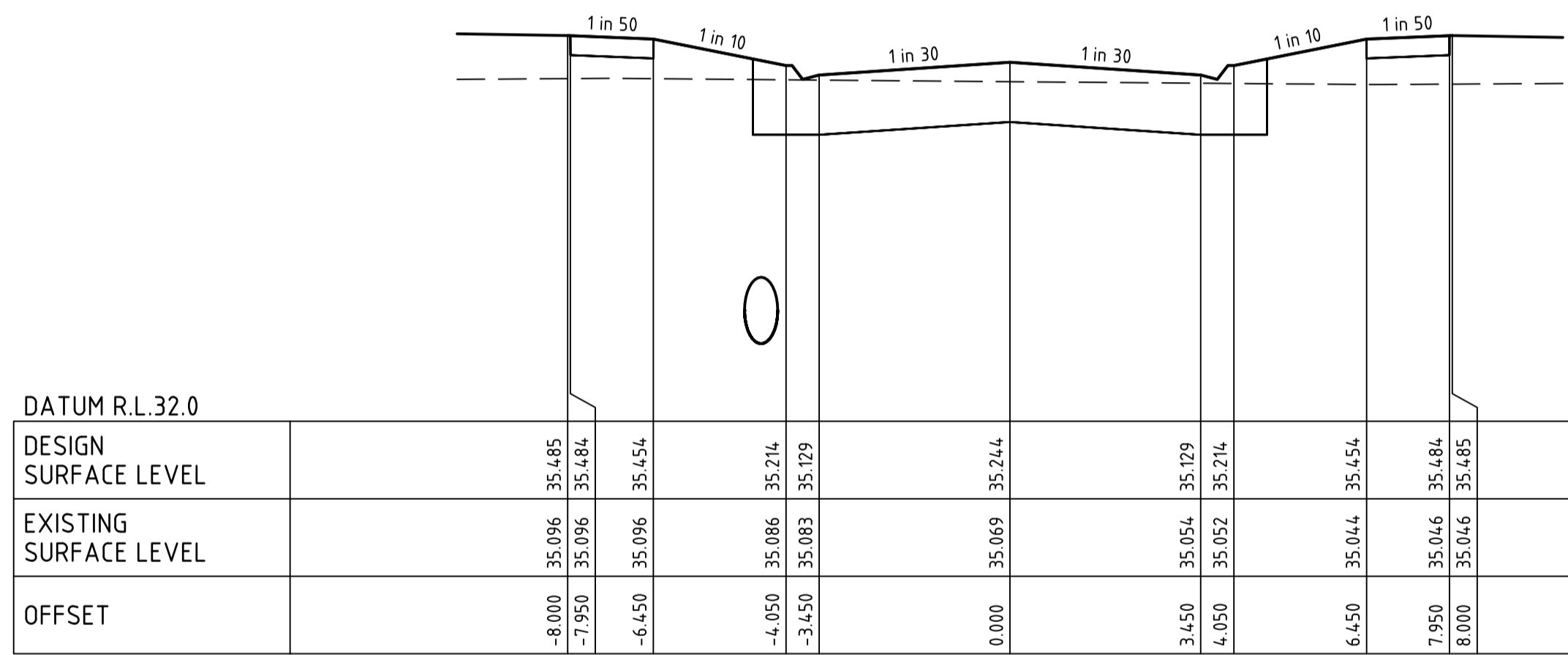
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 15 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



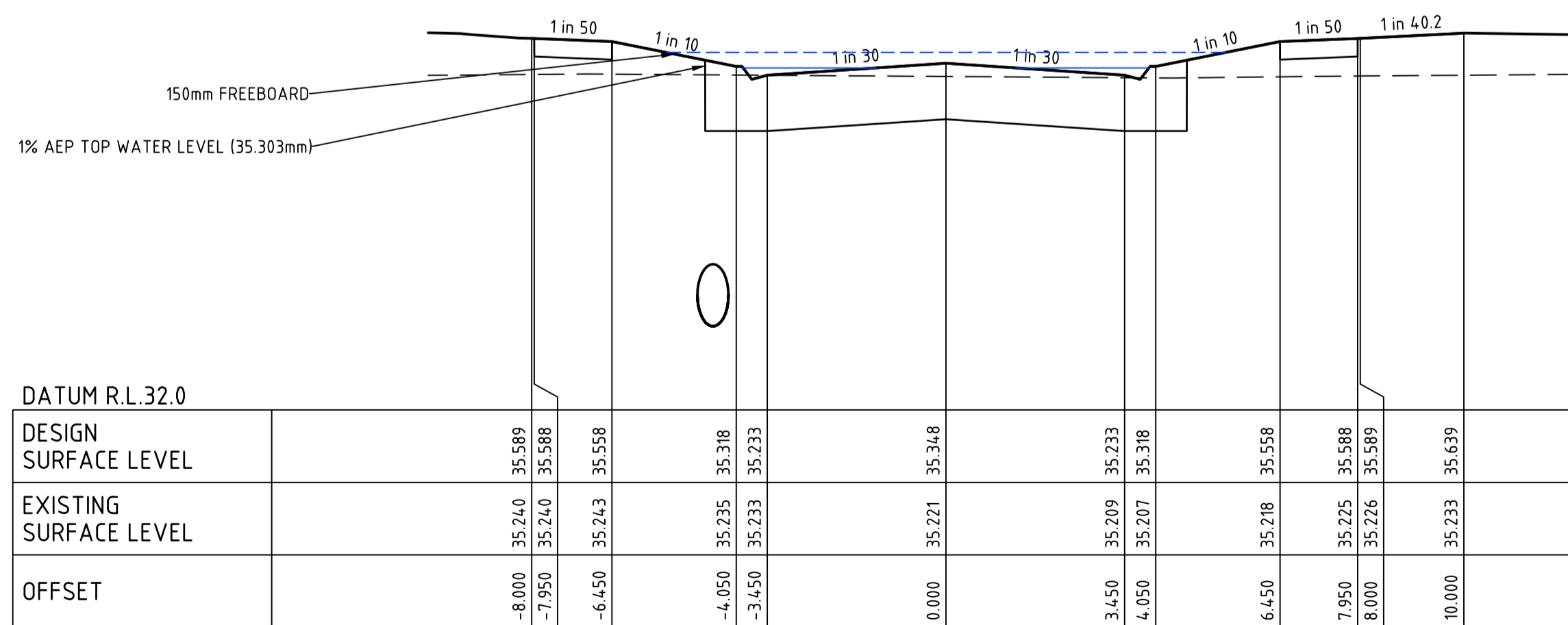
BAUERA ROAD

CH 70.40



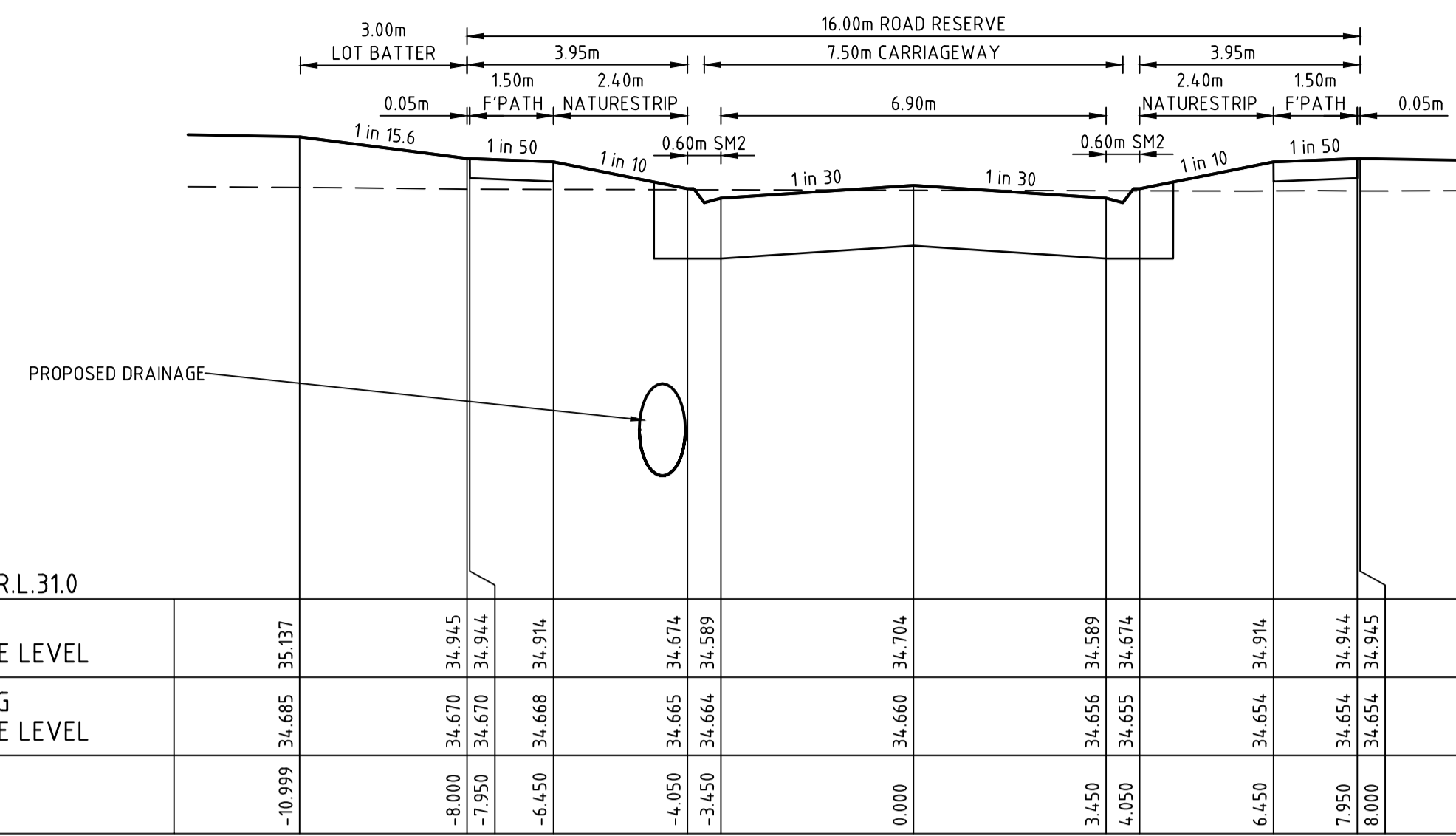
BAUERA ROAD

CH 38.90



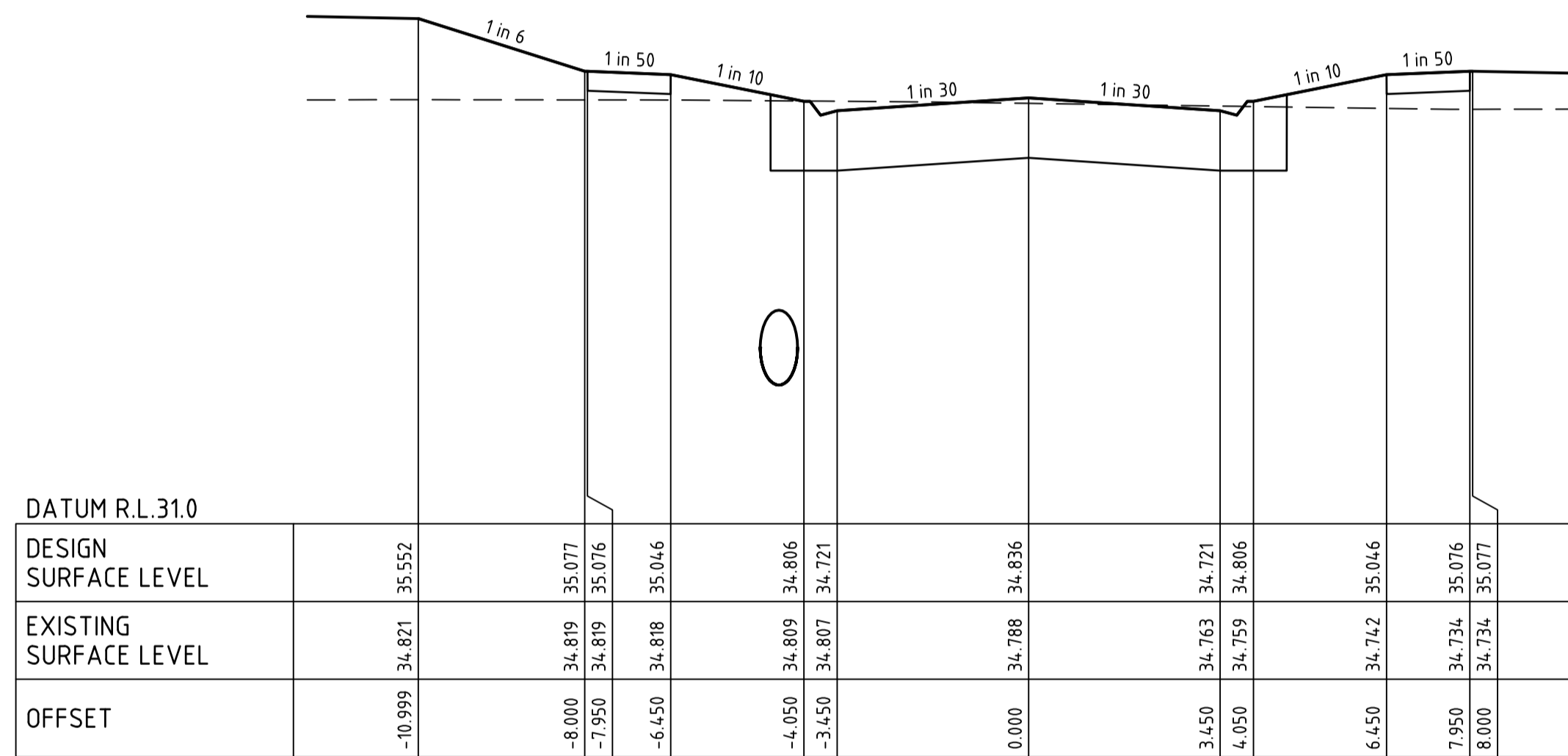
BAUERA ROAD

CH 18.00



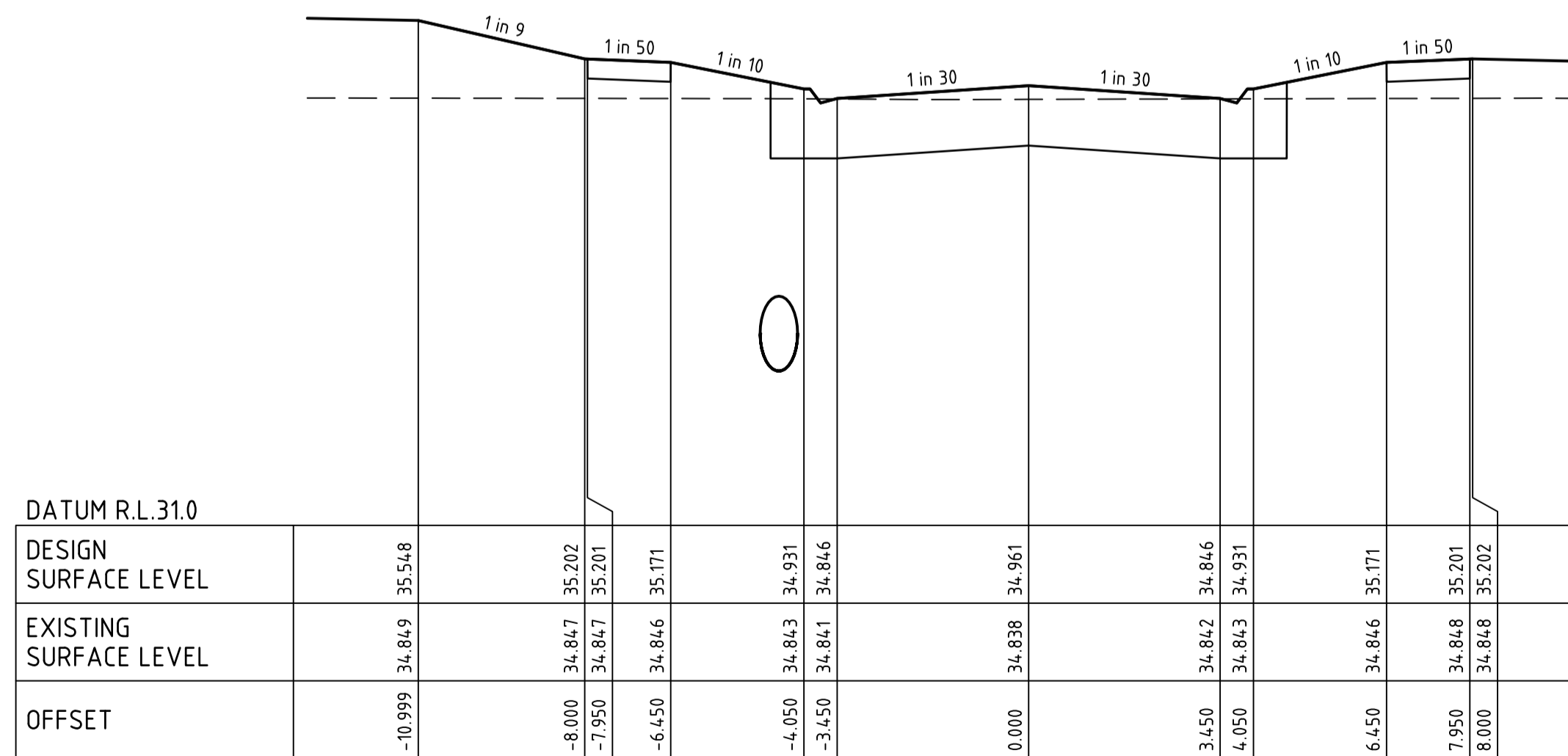
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CH 146.90



BAUERA ROAD

CH 120.40

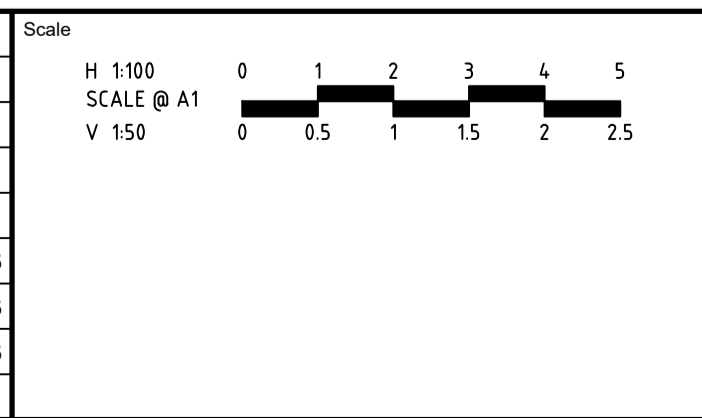


BAUERA ROAD

CH 95.40

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Rev	Description	By	Date
B	UPDATED CROSS SECTIONS	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
Rev	Amendments	Approved	Date



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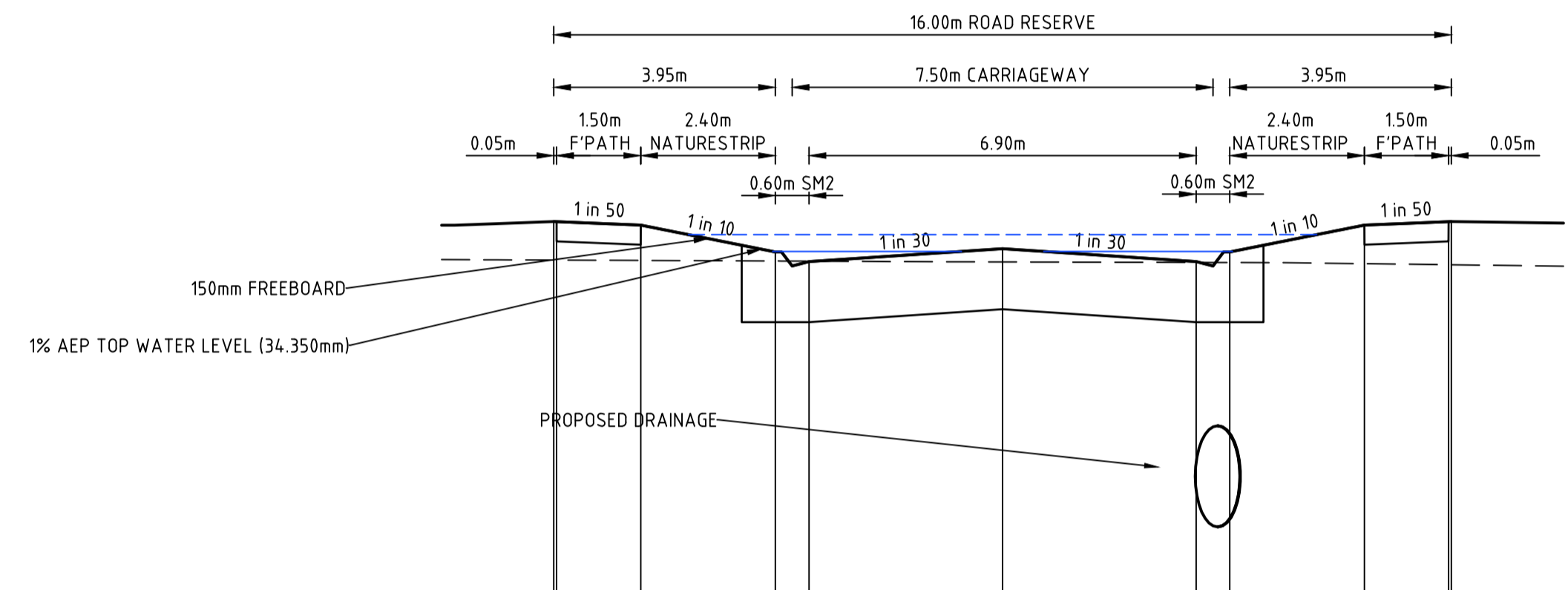
1/126 ALBERT ROAD WARRAGUL
 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
 spiire.com.au ABN 55 050 029 635

Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
ROAD CROSS SECTIONS - SHEET 8
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310306CR407 Rev: C

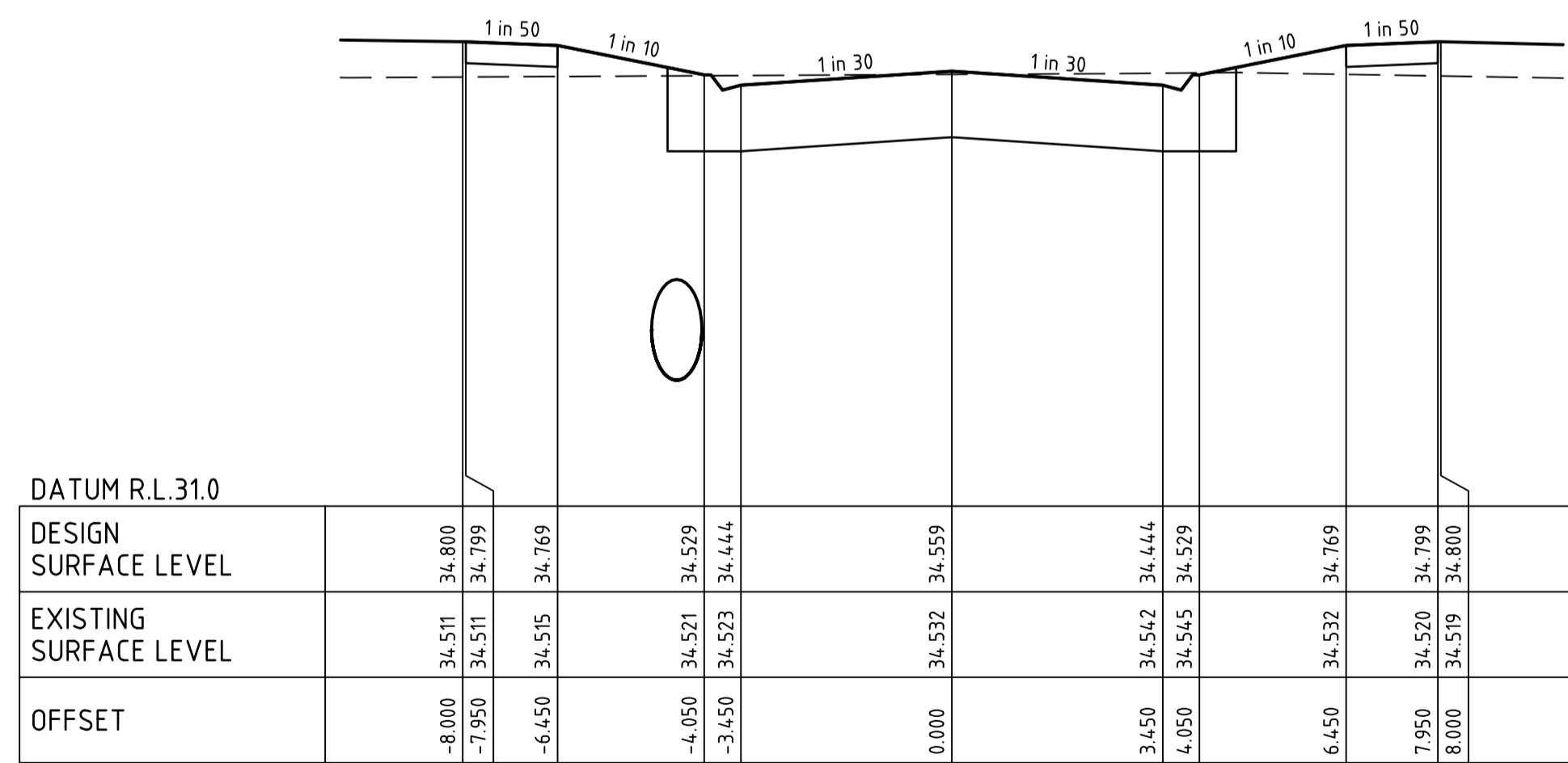
FILLING NOTE
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APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 16 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



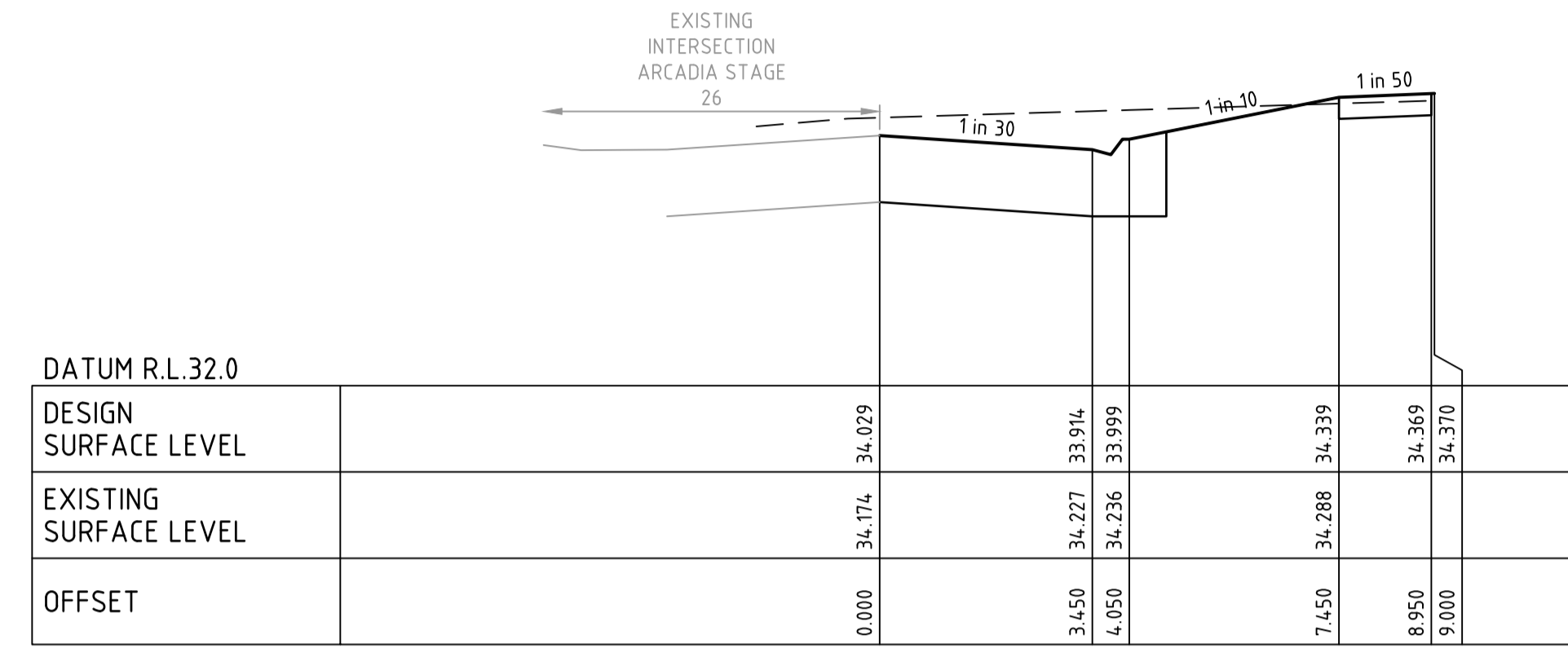
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DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

BAUERA ROAD CH 212.63

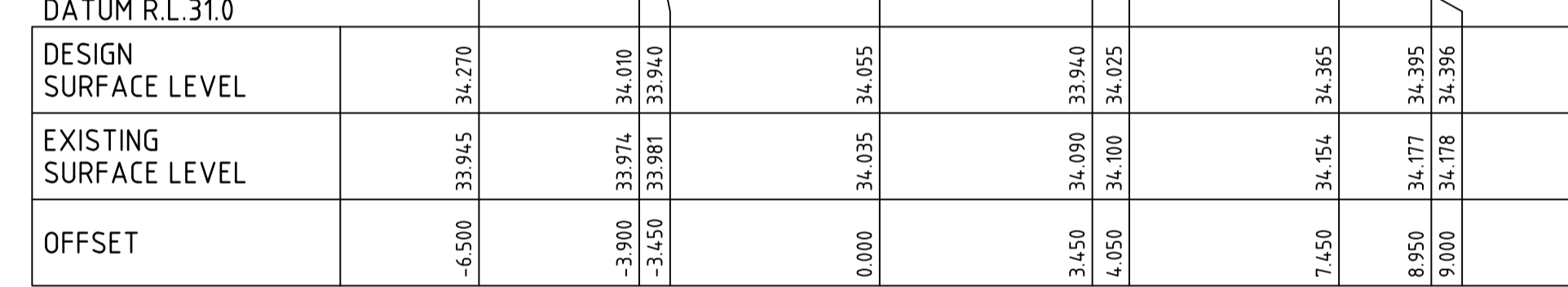


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EXISTING SURFACE LEVEL	
OFFSET	

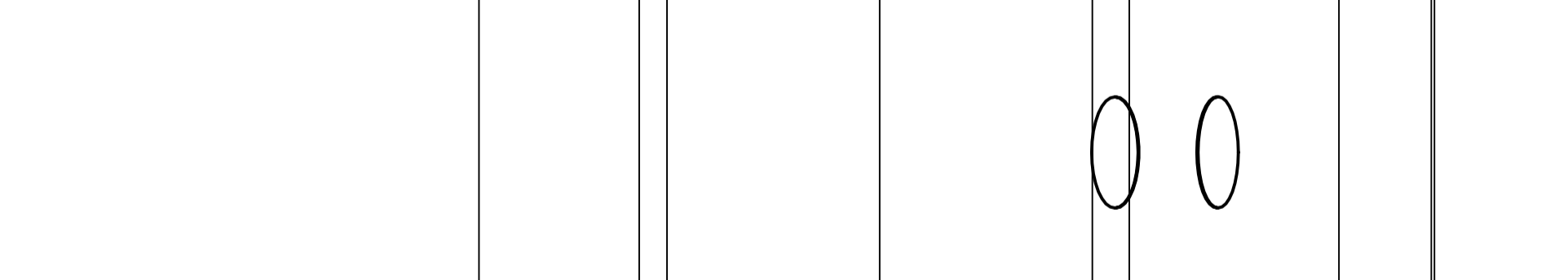
BAUERA ROAD CH 175.97



DATUM R.L.32.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	



DATUM R.L.31.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

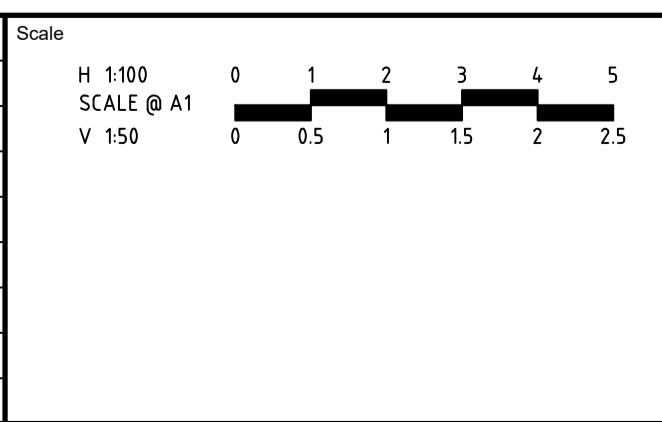


DATUM R.L.31.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

CHARMING LOOP CH 233.00

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Rev	Amendments	Approved	Date
C	UPDATED CROSS SECTIONS AND 1% TWL	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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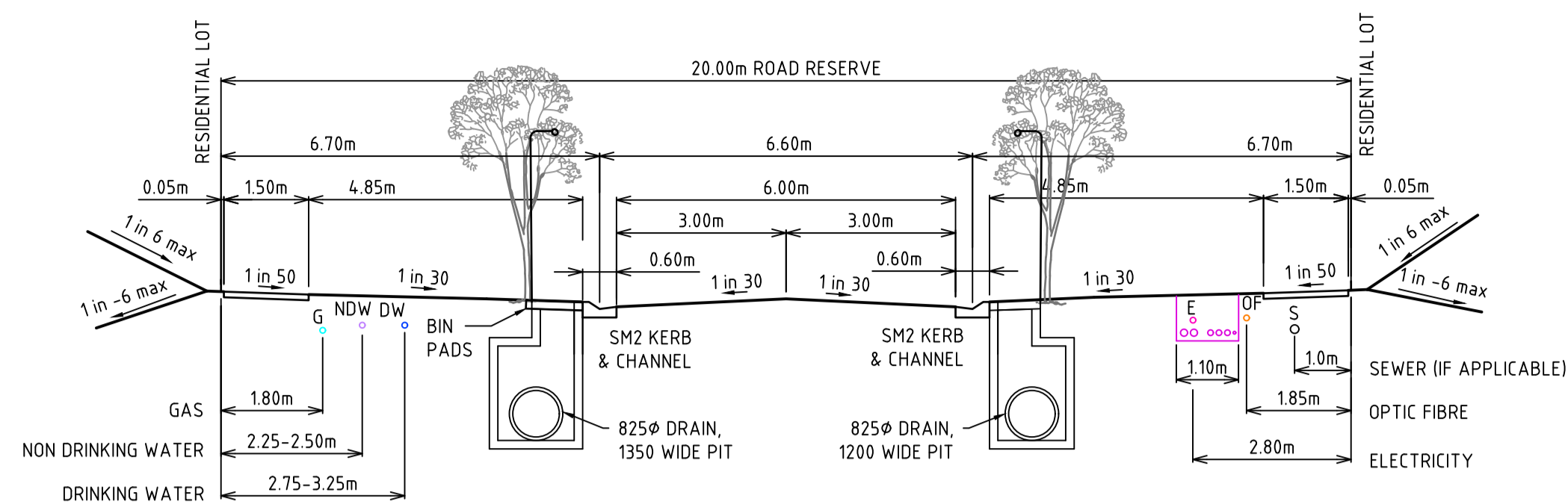
spiire
 1/126 ALBERT ROAD WARRAGUL
 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
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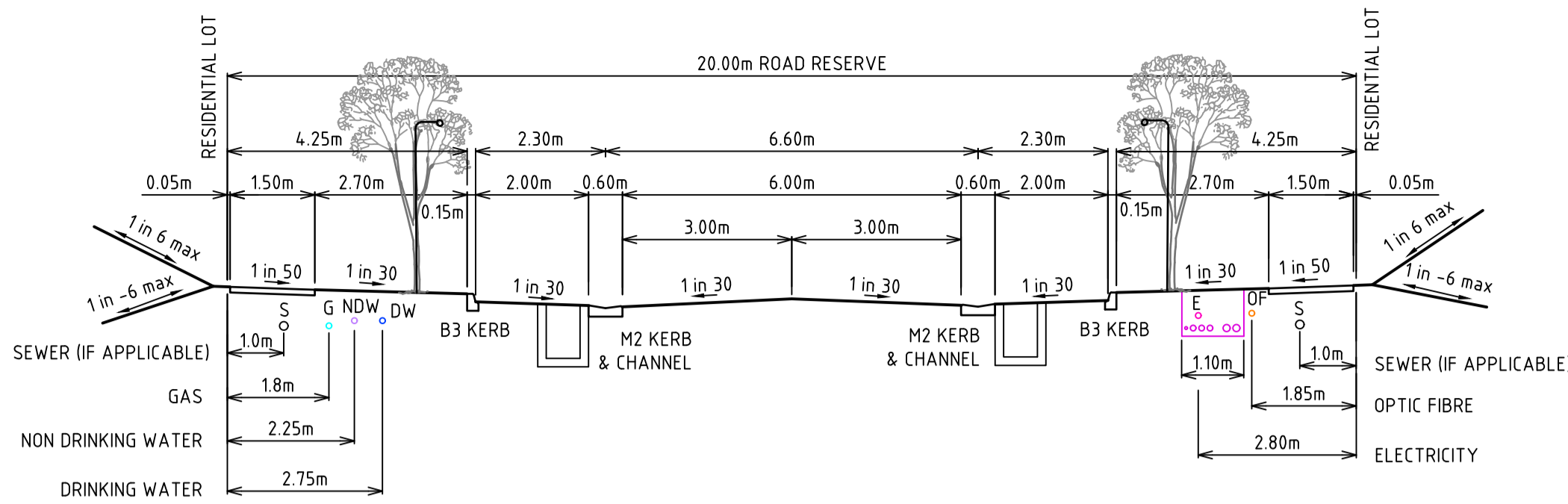
Designed S.SALHAN	Checked B.IBBS
Authorised B.WAREHAM	Date 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - SHEET 9
 CARDINIA SHIRE
 YOURLAND PTY LTD**

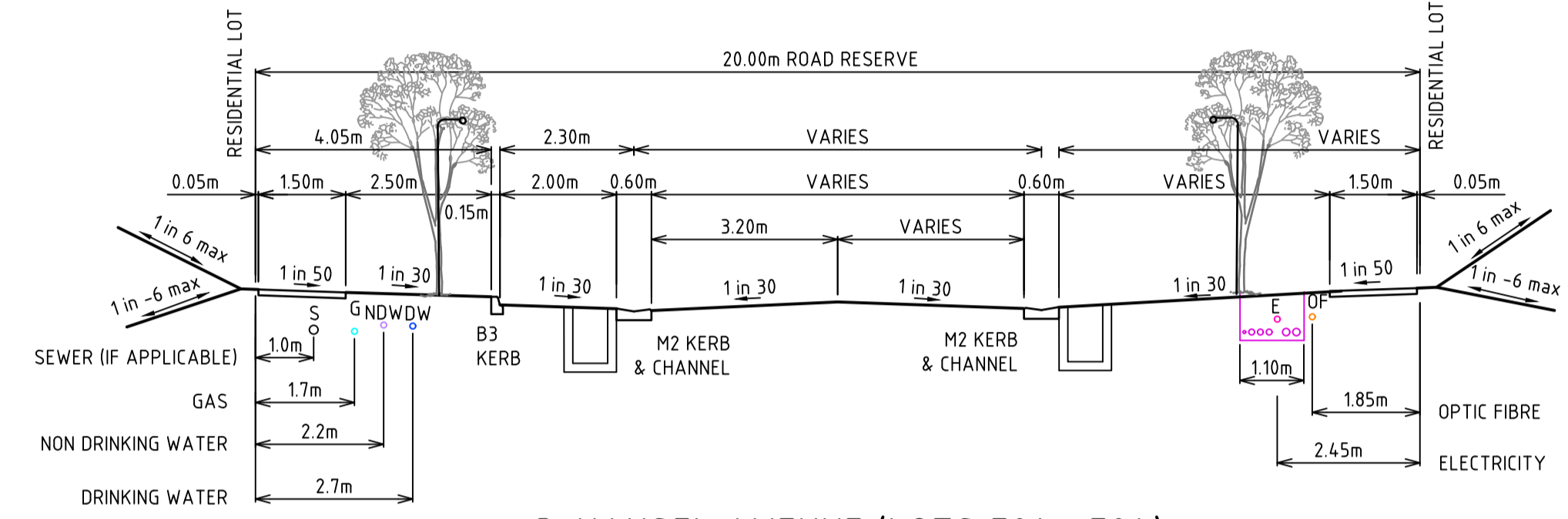
PRELIMINARY Drg No: 310306CR408 Rev: C



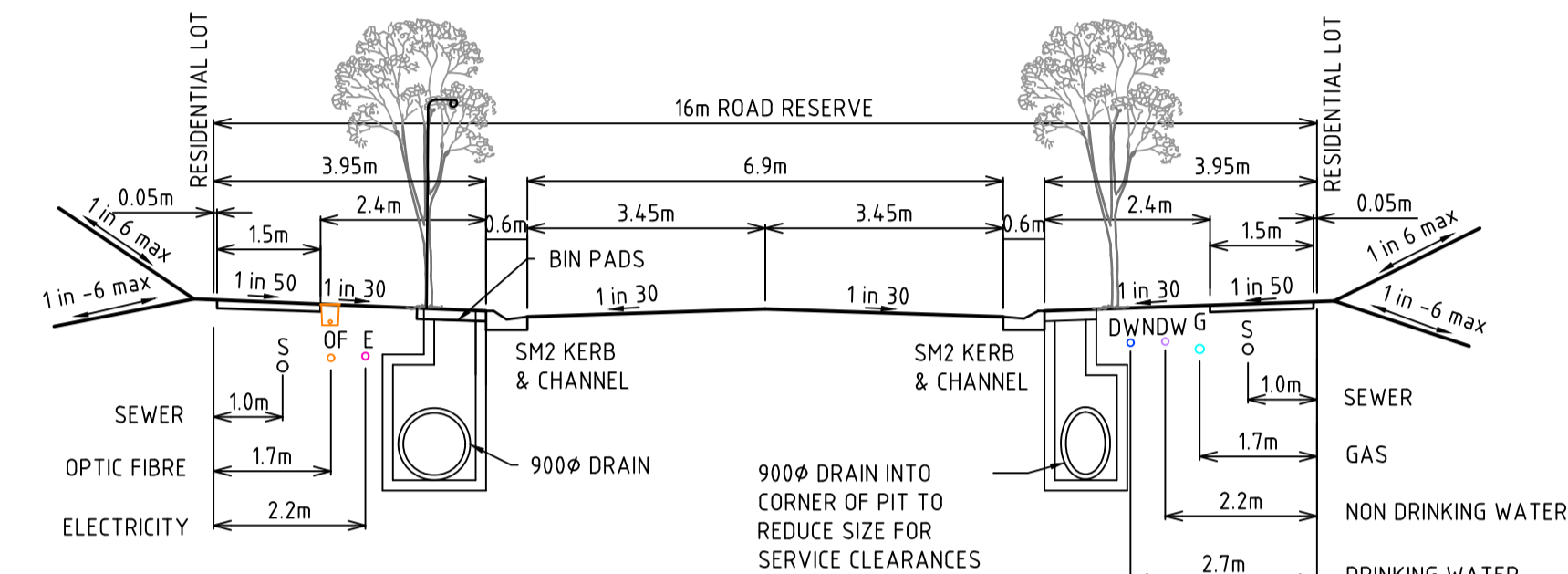
1. HANSEL AVENUE (LOT 722)
 20m WIDE RESIDENTIAL ROAD



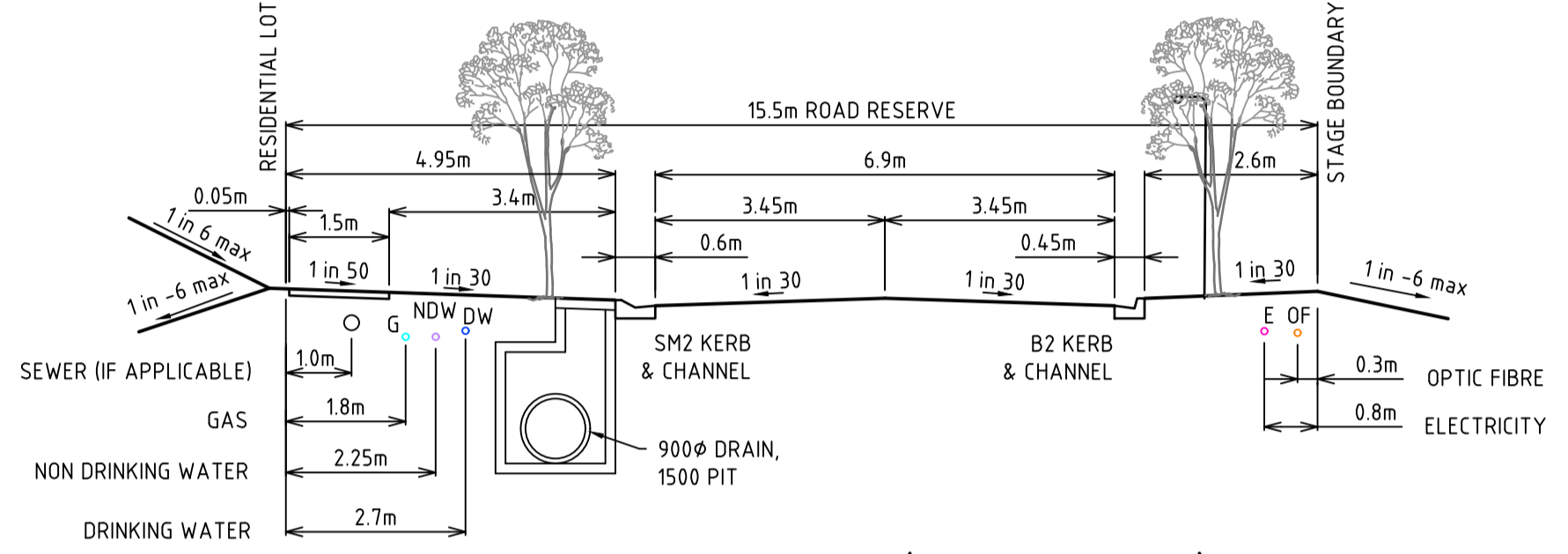
2. HANSEL AVENUE (LOTS 710 - 721)
 20m WIDE RESIDENTIAL ROAD



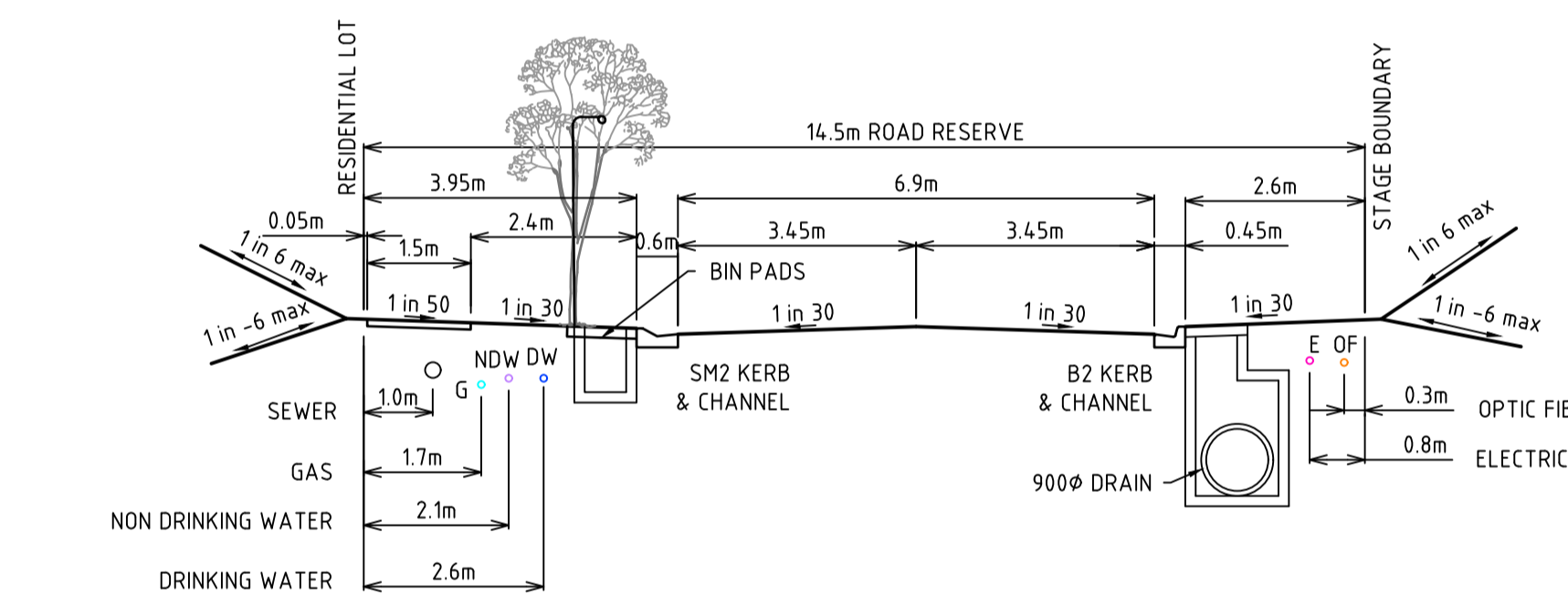
3. HANSEL AVENUE (LOTS 701 - 704)
 20m WIDE RESIDENTIAL ROAD



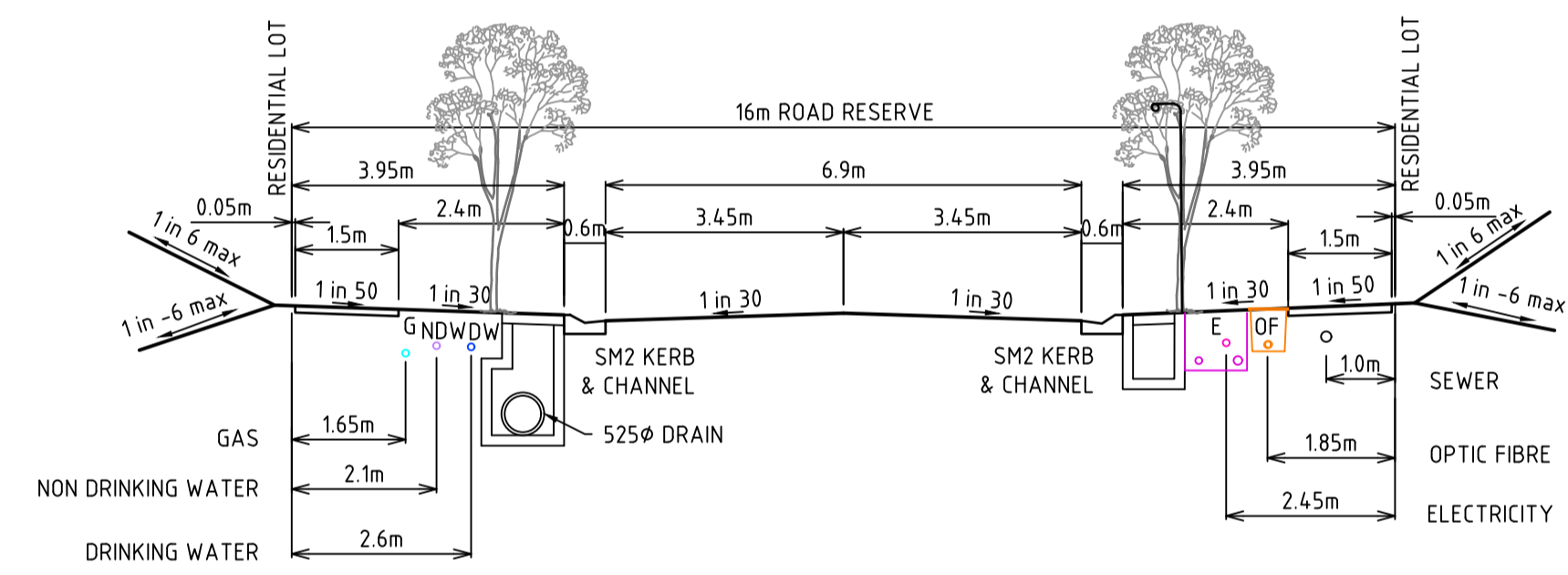
4. BAUERA ROAD (LOTS 761-776)
 16m WIDE RESIDENTIAL ROAD



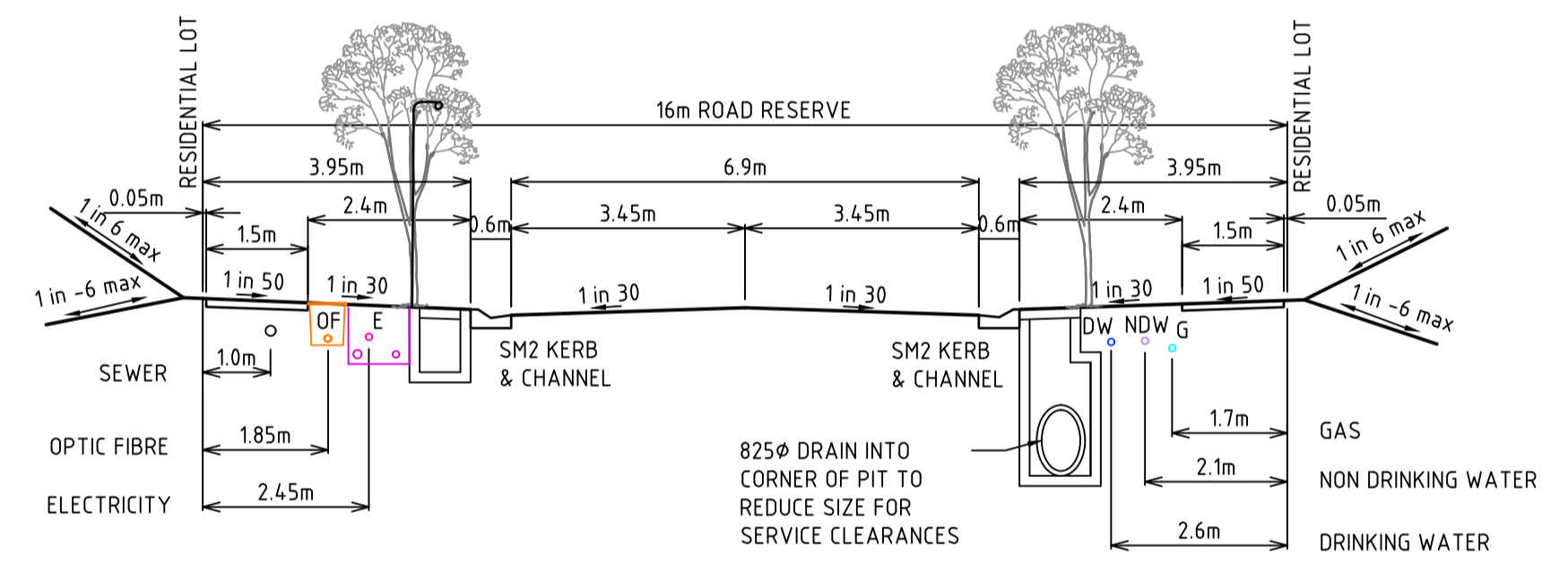
5. CHARMING LOOP (LOT 776 - 777)
 15.5m WIDE RESIDENTIAL ROAD



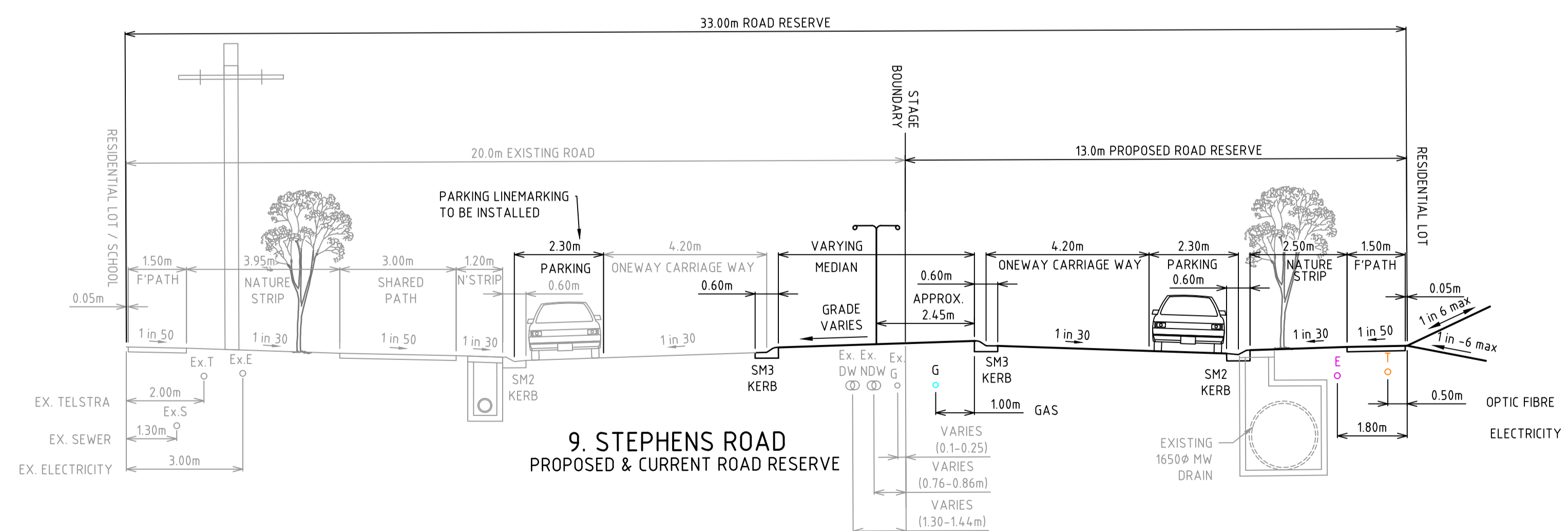
6. TUPY WAY
 14.5m WIDE RESIDENTIAL ROAD



7. GUINEA ROAD
 16m WIDE RESIDENTIAL ROAD



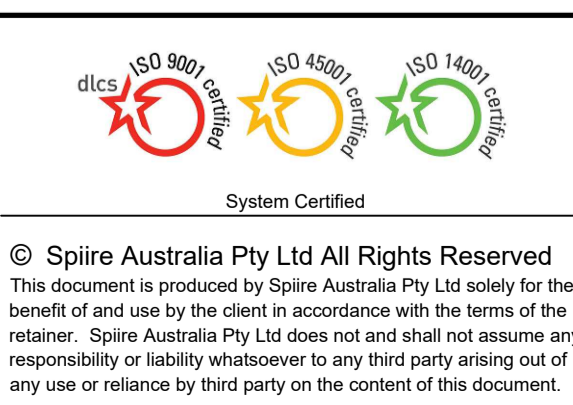
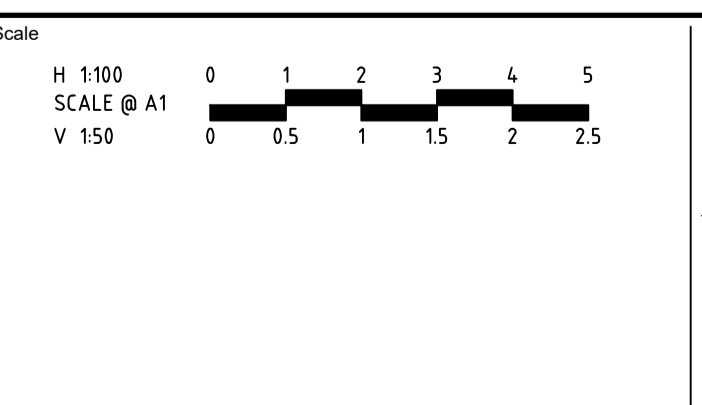
8. FURZE ROAD
 16m WIDE RESIDENTIAL ROAD



9. STEPHENS ROAD
 PROPOSED & CURRENT ROAD RESERVE

file name: 310306CR409.dwg; layout: rmp; cpl: 09; plotted by: Sanyu; csh: 17; file location: R:\310306CR409\310306CR409.dwg; plot date: 10/10/2023; 17 of 30 Sheets

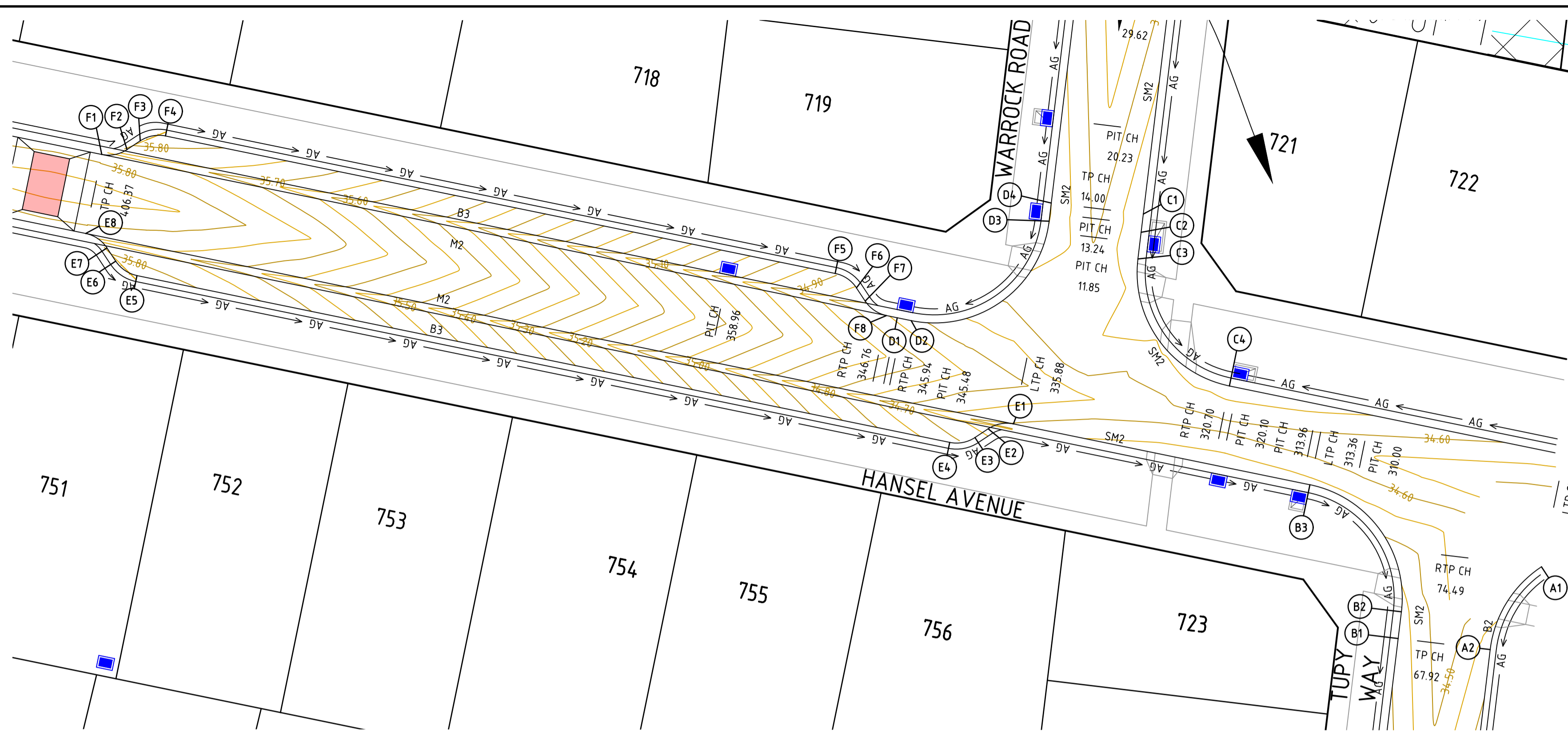
Rev	Amendments	Approved	Date
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
 spiire.com.au ABN 55 050 029 635

YourLand Developments
 Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

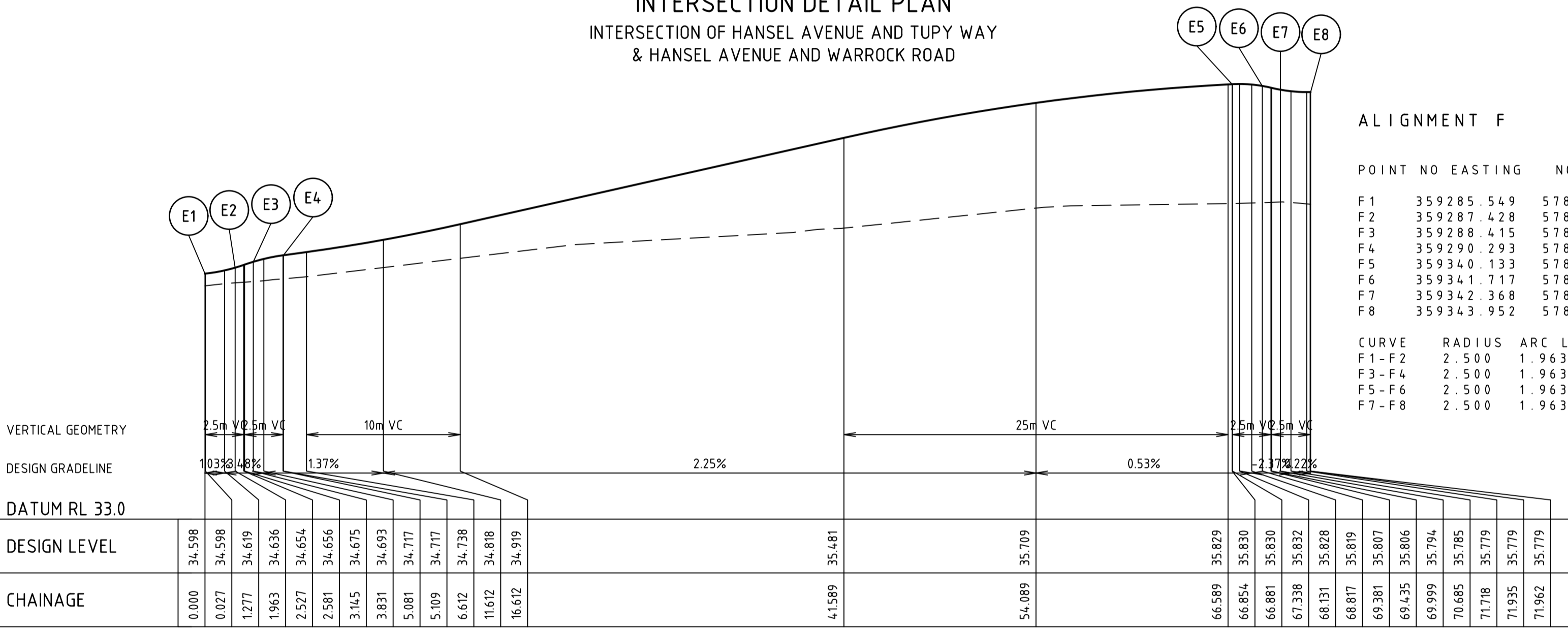
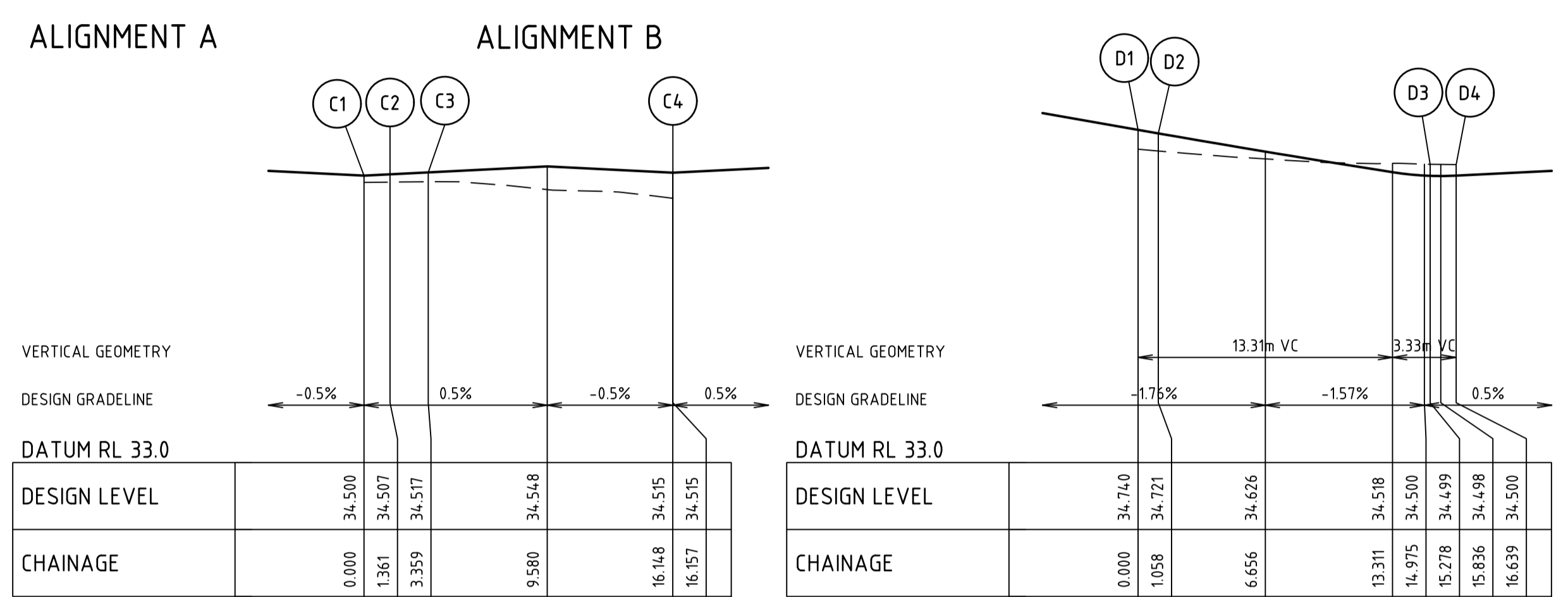
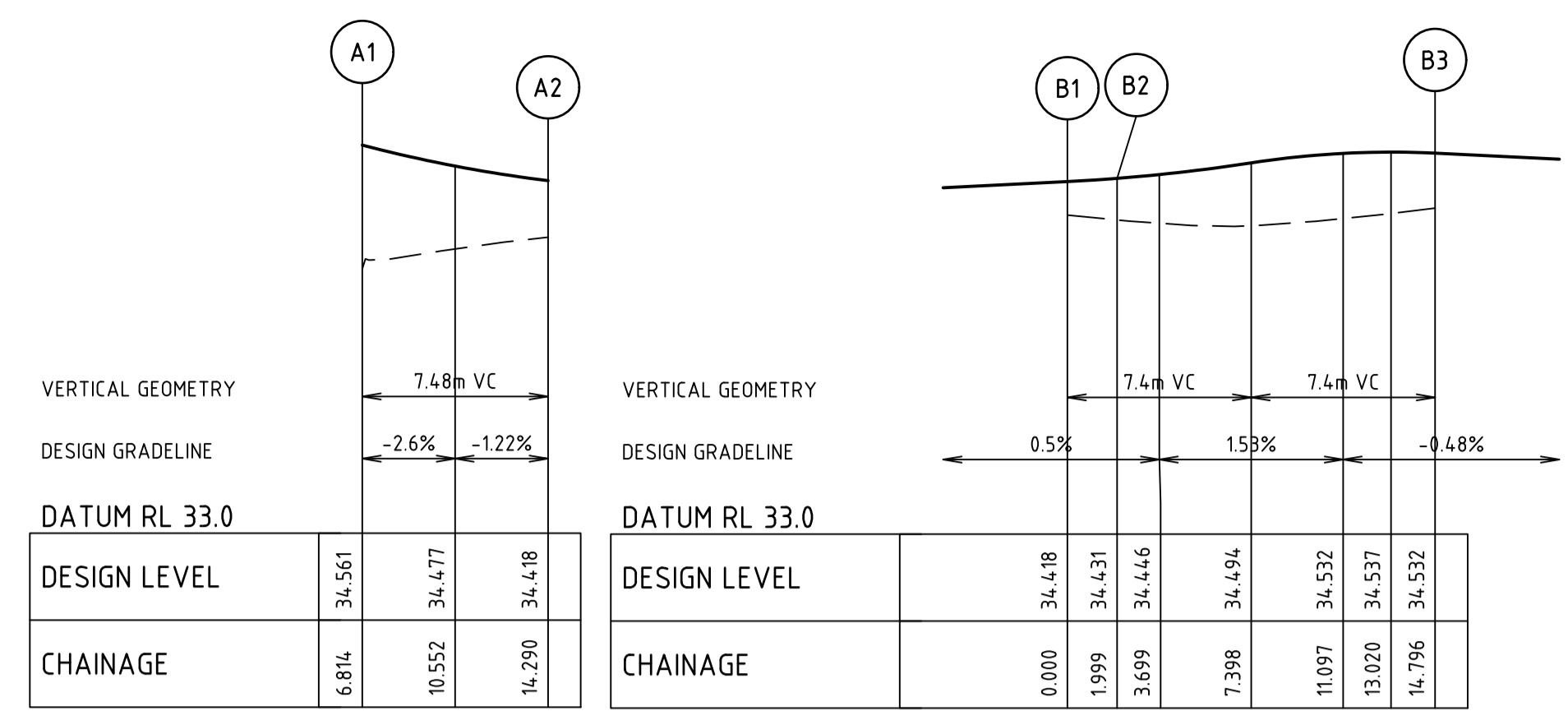
OFFICER CENTRAL
STAGE 7
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - TYPICAL CROSS SECTIONS
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310306CR409 Rev: B



INTERSECTION DETAIL PLAN
INTERSECTION OF HANSEL AVENUE AND TUPY WAY
& HANSEL AVENUE AND WARROCK ROAD

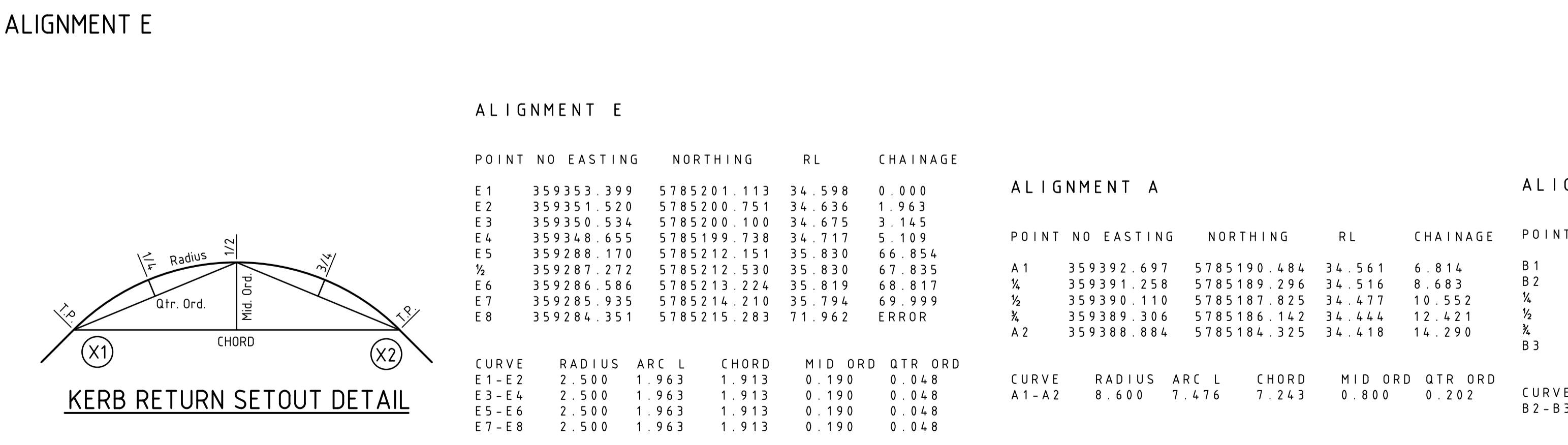
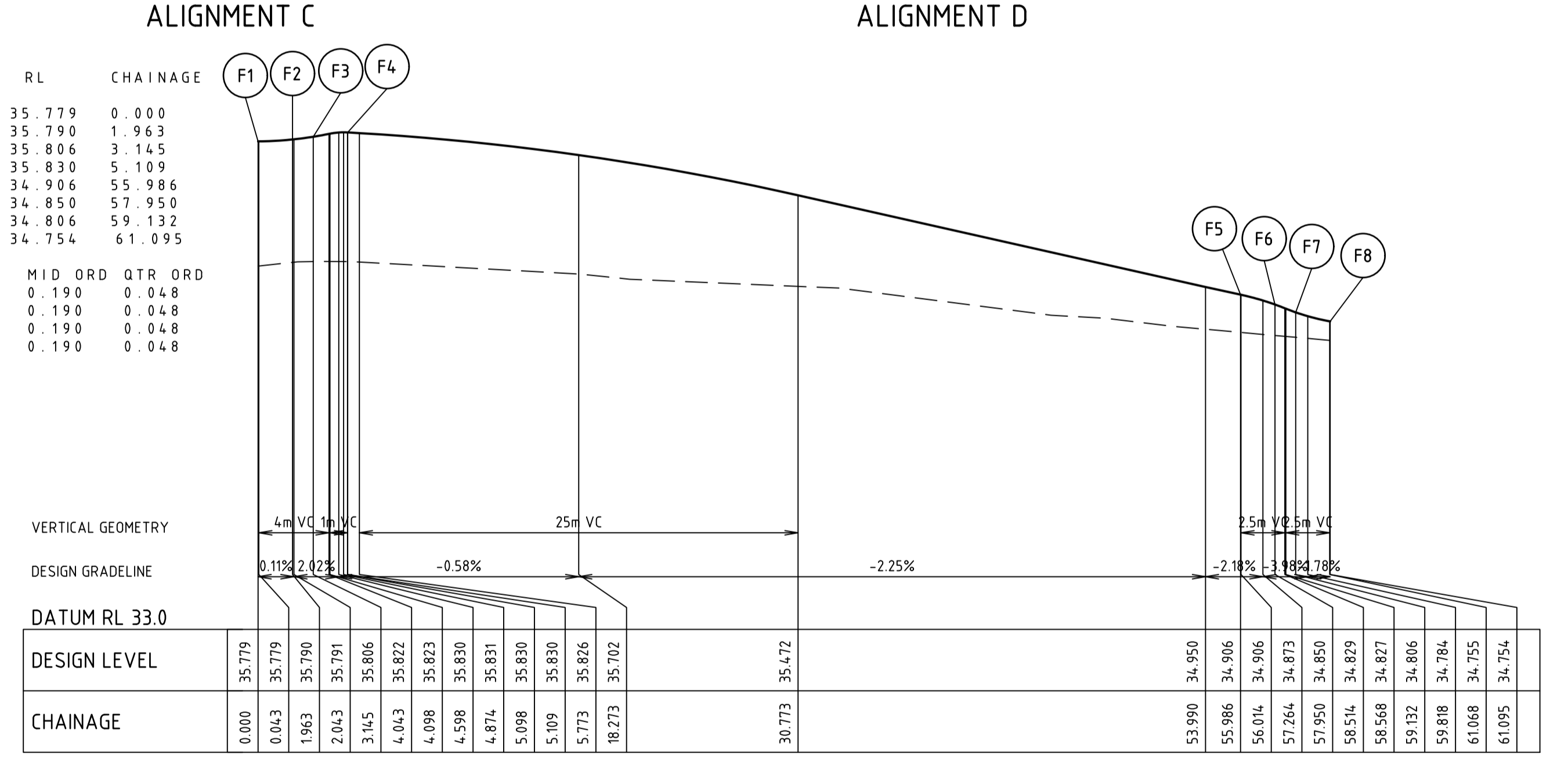


APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S23-010 - T220246
Sheet: 18 of 30
Approved by: Vithu Vijeyakumar
CARDINIA SHIRE COUNCIL
Date: Tuesday, 31 October 2023



POINT NO	EASTING	NORTHING	RL	CHAINAGE
F1	359285.549	5785221.162	35.779	0.000
F2	359287.428	5785221.524	35.790	1.963
F3	359288.415	5785222.174	35.806	3.145
F4	359290.293	5785222.536	35.830	5.109
F5	359340.133	5785212.308	34.906	55.986
F6	359341.717	5785211.236	34.850	57.950
F7	359342.368	5785210.249	34.806	59.132
F8	359343.952	5785209.176	34.754	61.095

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	2.500	1.963	1.913	0.190	0.048
F3-F4	2.500	1.963	1.913	0.190	0.048
F5-F6	2.500	1.963	1.913	0.190	0.048
F7-F8	2.500	1.963	1.913	0.190	0.048



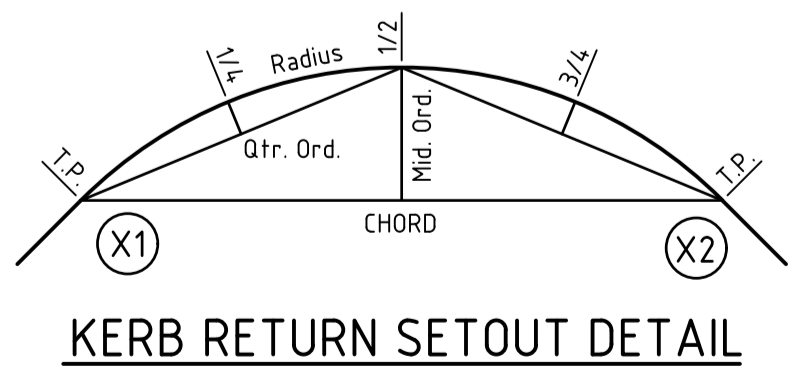
POINT NO	EASTING	NORTHING	RL	CHAINAGE
E1	359353.399	5785201.113	34.598	0.000
E2	359351.520	5785200.751	34.636	1.963
E3	359350.534	5785200.100	34.675	3.145
E4	359348.655	5785199.738	34.717	5.109
E5	359288.170	5785212.151	35.830	66.854
E6	359287.272	5785212.530	35.830	67.835
E7	359286.586	5785213.224	35.819	68.817
E8	359285.935	5785214.210	35.794	69.999
E8	359284.351	5785215.283	71.962	ERROR

POINT NO	EASTING	NORTHING	RL	CHAINAGE
A1	359392.697	5785190.484	34.561	6.814
A2	359391.258	5785189.296	34.516	8.683
A3	359390.110	5785187.825	34.477	10.552
A4	359389.306	5785186.142	34.444	12.421
A5	359388.884	5785184.325	34.418	14.290

POINT NO	EASTING	NORTHING	RL	CHAINAGE
B1	359382.033	5785185.149	34.418	0.000
B2	359382.272	5785187.134	34.431	1.999
B3	359382.061	5785190.308	34.463	5.198
B4	359380.711	5785193.188	34.508	8.398
B5	359378.406	5785195.380	34.534	11.597
B6	359375.462	5785196.585	34.532	14.796

POINT NO	EASTING	NORTHING	RL	CHAINAGE
C1	359363.068	5785216.725	34.500	0.000
C2	359362.905	5785215.374	34.507	1.361
C3	359362.667	5785213.390	34.517	3.359
C4	359362.877	5785210.216	34.533	6.559
C5	359364.227	5785207.335	34.547	9.758
C6	359366.532	5785205.143	34.531	12.957
C7	359369.476	5785203.938	34.515	16.157

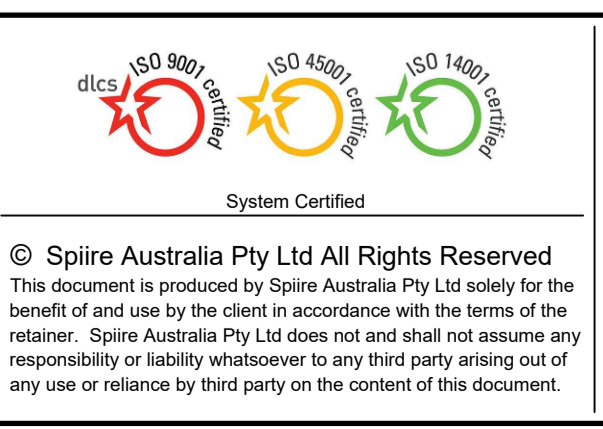
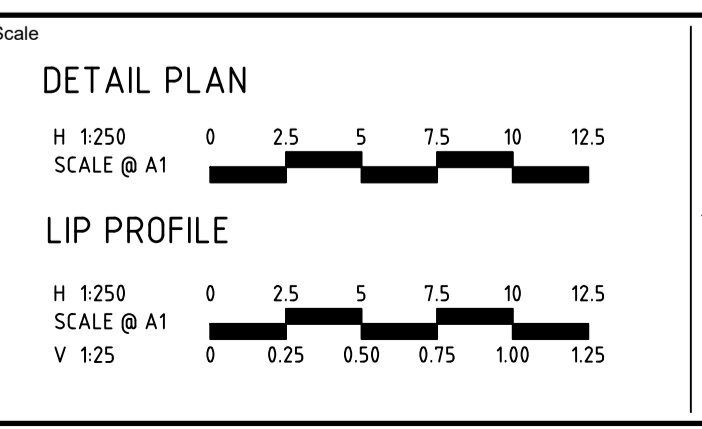
POINT NO	EASTING	NORTHING	RL	CHAINAGE
D1	359344.751	5785209.012	34.740	0.000
D2	359345.787	5785208.800	34.721	1.058
D3	359349.317	5785208.815	34.660	4.613
D4	359352.543	5785210.247	34.601	8.168
D5	359354.923	5785212.854	34.543	11.723
D6	359356.054	5785216.198	34.499	15.278
D7	359356.217	5785217.549	34.500	16.639



KERB RETURN SETOUT DETAIL

file name: 310306CR500.dwg; layout name: CR500; checked by: Sushant; sheet: 18 of 30; sheets: 18; file location: \\spire\media\data\310306CR500.dwg; plot date: 18/10/2023 12:14:PM; sheet: 18 of 30; sheets: 18

Rev	Description	By	Date
C	UPDATED ALIGNMENT C & D	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
Rev	Amendments	Approved	Date



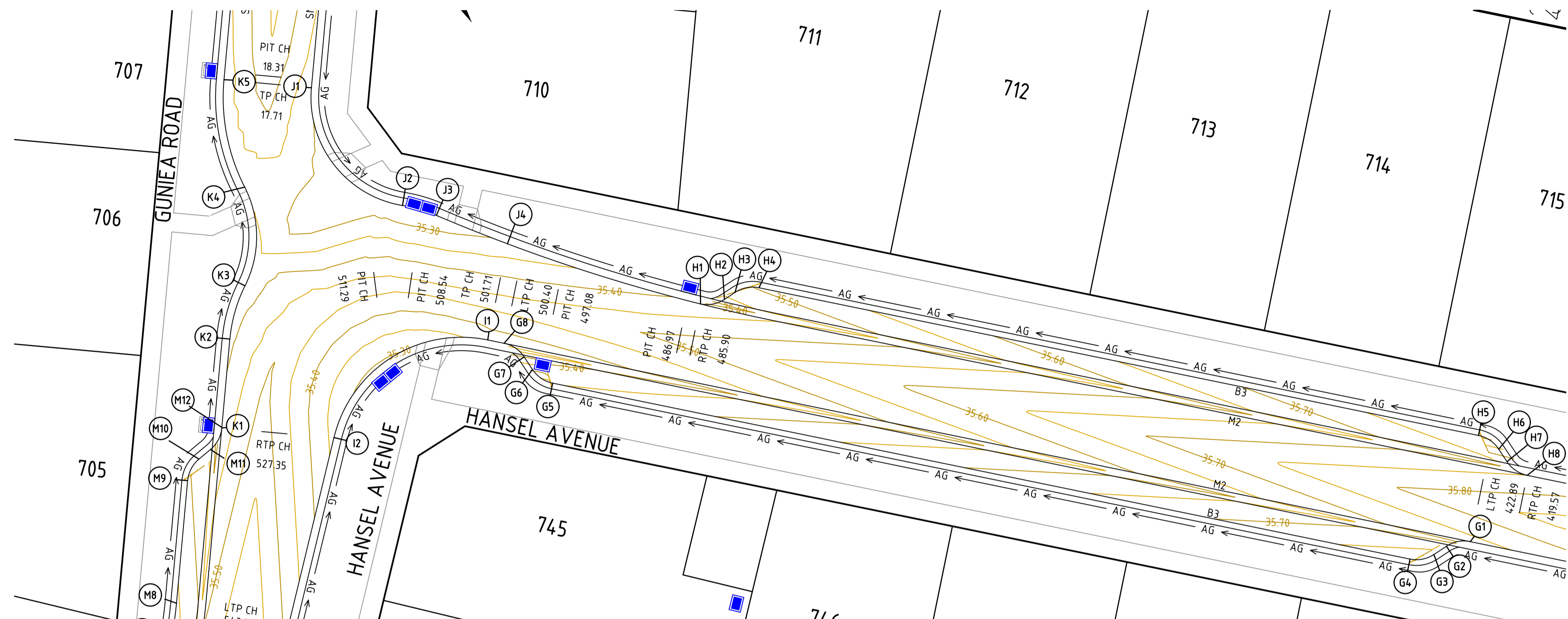
spiire
1/126 ALBERT ROAD WARRAGUL
VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
spiire.com.au ABN 55 050 029 635

YourLand Developments
Designed: S.SALHAN
Checked: B.IBBS
Authorised: B.WAREHAM
Date: 18/10/2023

**OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1**
CARDINIA SHIRE
YOURLAND PTY LTD
PRELIMINARY Dwg No: 310306CR500 Rev: C



APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 19 of 30
 Approved by: Vitu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



INTERSECTION DETAIL PLAN
 INTERSECTION OF HANSEL AVENUE AND GUINEA ROAD

VERTICAL GEOMETRY
 DESIGN GRADELINE
 DATUM RL 34.0

DESIGN LEVEL	0.000	35.371	35.320	35.292	35.292	35.321	35.336
CHAINAGE		0.000	4.510	9.473	9.510	14.510	15.819

ALIGNMENT I

VERTICAL GEOMETRY
 DESIGN GRADELINE
 DATUM RL 34.0

DESIGN LEVEL	0.000	35.313	35.254	35.250	35.250	35.251	35.256	35.266	35.314
CHAINAGE		0.000	11.925	12.873	13.588	14.425	15.651	16.925	21.664

ALIGNMENT J

VERTICAL GEOMETRY
 DESIGN GRADELINE
 DATUM RL 34.0

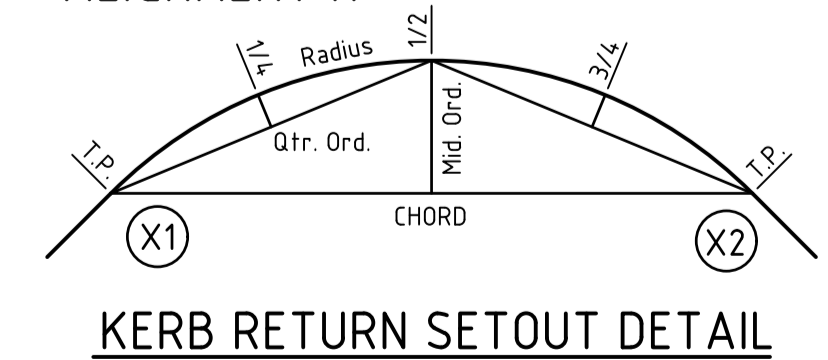
DESIGN LEVEL	0.000	35.734	35.734	35.732	35.737	35.739	35.756	35.765	35.777	35.779	35.779	35.740	35.486	35.464	35.448	35.436	35.424	35.409	35.395	35.382	35.373	
CHAINAGE		0.000	0.038	0.673	1.788	3.145	3.538	3.592	4.342	4.820	5.092	5.109	63.600	66.600	73.600	75.159	75.846	76.436	77.027	77.713	78.991	80.000

ALIGNMENT G

VERTICAL GEOMETRY
 DESIGN GRADELINE
 DATUM RL 34.0

DESIGN LEVEL	0.000	35.414	35.432	35.442	35.469	35.494	35.506	35.795	35.797	35.794	35.788	35.779	35.770	35.761	35.750
CHAINAGE		0.000	1.478	1.983	2.963	3.941	4.926	62.646	63.213	63.923	64.609	65.200	65.791	66.477	67.154

ALIGNMENT H

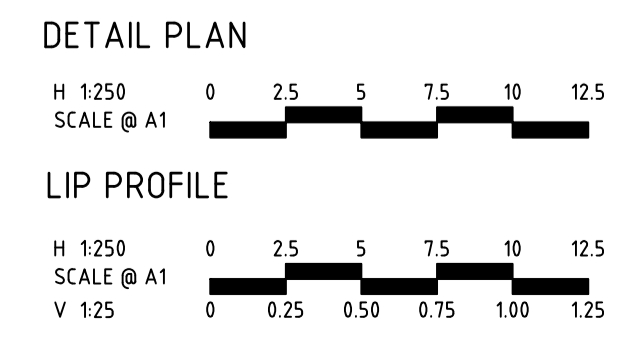


KERB RETURN SETOUT DETAIL

VERTICAL GEOMETRY
 DESIGN GRADELINE
 DATUM RL 34.0

DESIGN LEVEL	0.000	35.421	35.389	35.371	35.362	35.344	35.323	35.322	35.322	35.322	35.323	35.326	35.331
CHAINAGE		0.000	7.015	11.388	13.945	19.431	27.891	28.135	28.253	28.625	29.359	30.136	30.531

ALIGNMENT K



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 VICTORIA 3820 AUSTRALIA T 61 3 5644 5000
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Designed
 S.SALHAN

Checked
 B.IBBS

Authorised
 B.WAREHAM

Date
 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 INTERSECTION DETAILS - SHEET 2**

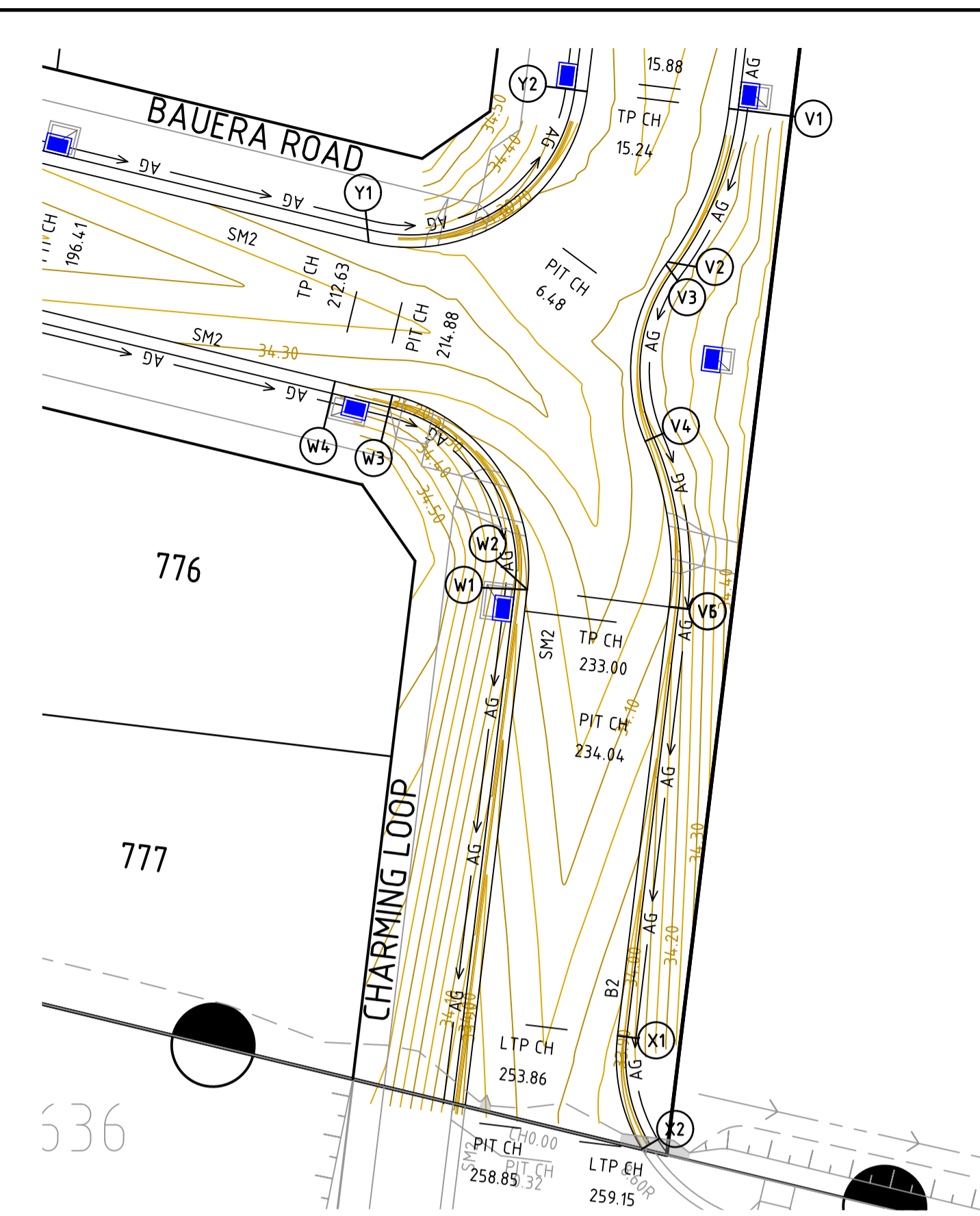
CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY

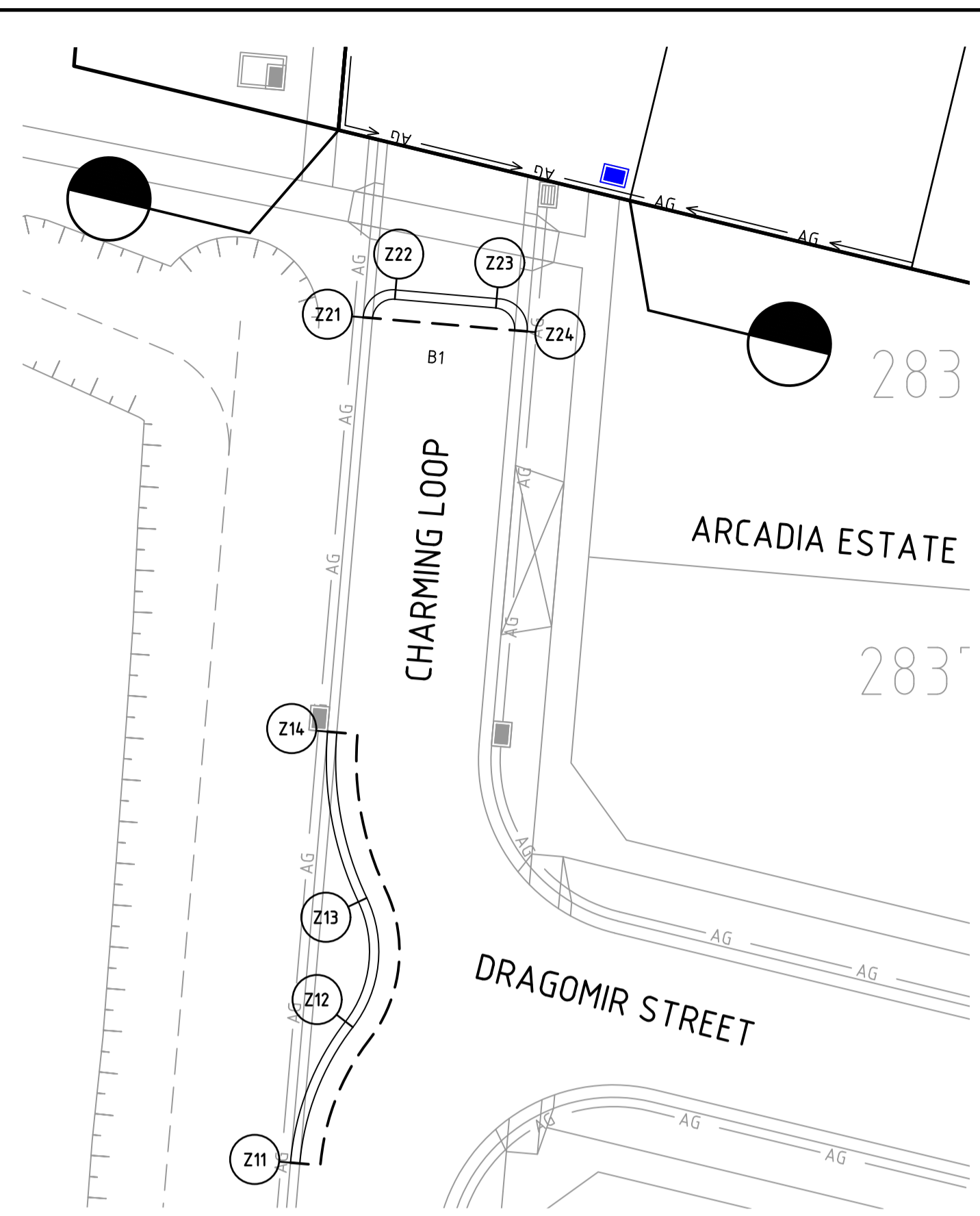
Drg No
310306CR501

Rev
C

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INTERSECTION DETAIL PLAN
INTERSECTION OF HANSEL AVENUE AND TUPY WAY



INTERSECTION DETAIL PLAN
INTERSECTION OF CHARMING LOOP AND DRAGMOUR STREET

ALIGNMENT V

POINT NO	EASTING	NORTHING	RL	CHAINAGE
V1	359382.595	5785132.022	34.155	0.000
¼	359382.225	5785130.042	34.165	2.016
½	359381.601	5785128.127	34.175	4.031
¾	359380.735	5785126.309	34.185	6.047
V2	359379.639	5785124.618	34.193	8.062
¼	359379.548	5785124.495	34.193	8.216
½	359378.454	5785122.536	34.196	10.466
¾	359377.905	5785120.360	34.193	12.716
V3	359377.937	5785118.117	34.185	14.967
¼	359378.549	5785115.958	34.171	17.217
½	359379.230	5785114.036	34.157	19.467
¾	359379.654	5785112.042	34.142	21.717
V4	359379.812	5785110.010	34.125	23.967
¼	359379.703	5785107.974	34.106	26.217
V5	359379.702	5785107.964	34.106	28.467

ALIGNMENT W

POINT NO	EASTING	NORTHING	RL	CHAINAGE
W1	359372.851	5785108.788	34.106	0.000
¼	359372.852	5785108.798	34.106	0.010
½	359372.660	5785111.899	34.138	3.134
¾	359371.378	5785114.729	34.174	6.258
W2	359369.174	5785116.919	34.211	9.382
¼	359366.336	5785118.183	34.241	12.507
½	359363.566	5785118.854	34.260	15.631

ALIGNMENT X

POINT NO	EASTING	NORTHING	RL	CHAINAGE
X1	359377.211	5785087.251	33.940	0.000
¼	359377.341	5785084.416	33.922	2.851
½	359377.755	5785083.054	33.914	5.701
¾	359378.388	5785081.778	33.905	8.551

ALIGNMENT Y

POINT NO	EASTING	NORTHING	RL	CHAINAGE
Y1	359365.188	5785125.560	34.260	0.000
¼	359368.779	5785125.463	34.238	3.619
½	359372.096	5785126.841	34.213	7.237
¾	359374.561	5785129.454	34.183	10.856
Y3	359375.744	5785132.846	34.155	14.475

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
V1-V2	15.500	8.062	7.972	0.521	0.131
V3-V4	8.600	9.001	8.596	1.151	0.293
V4-V5	15.500	8.161	8.066	0.534	0.134

ALIGNMENT Z2

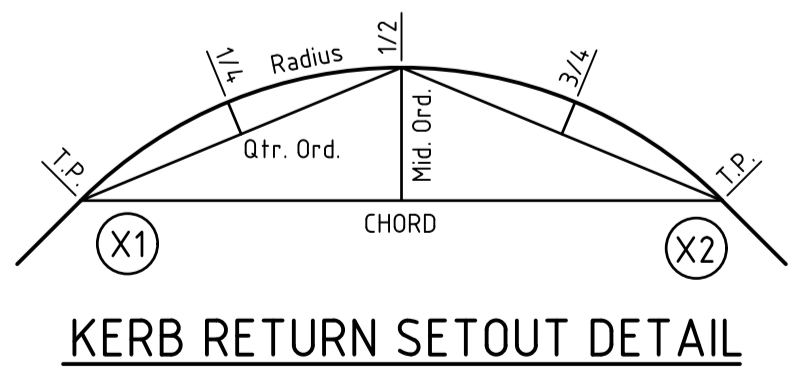
POINT NO	EASTING	NORTHING	RL	CHAINAGE
Z21	359102.207	5785139.917	35.109	0.000
¼	359102.559	5785140.597	35.125	0.785
Z22	359103.289	5785140.828	35.148	1.571
¾	359108.171	5785140.408	35.141	6.471
Z24	359109.082	5785139.326	35.104	8.042

ALIGNMENT Z1

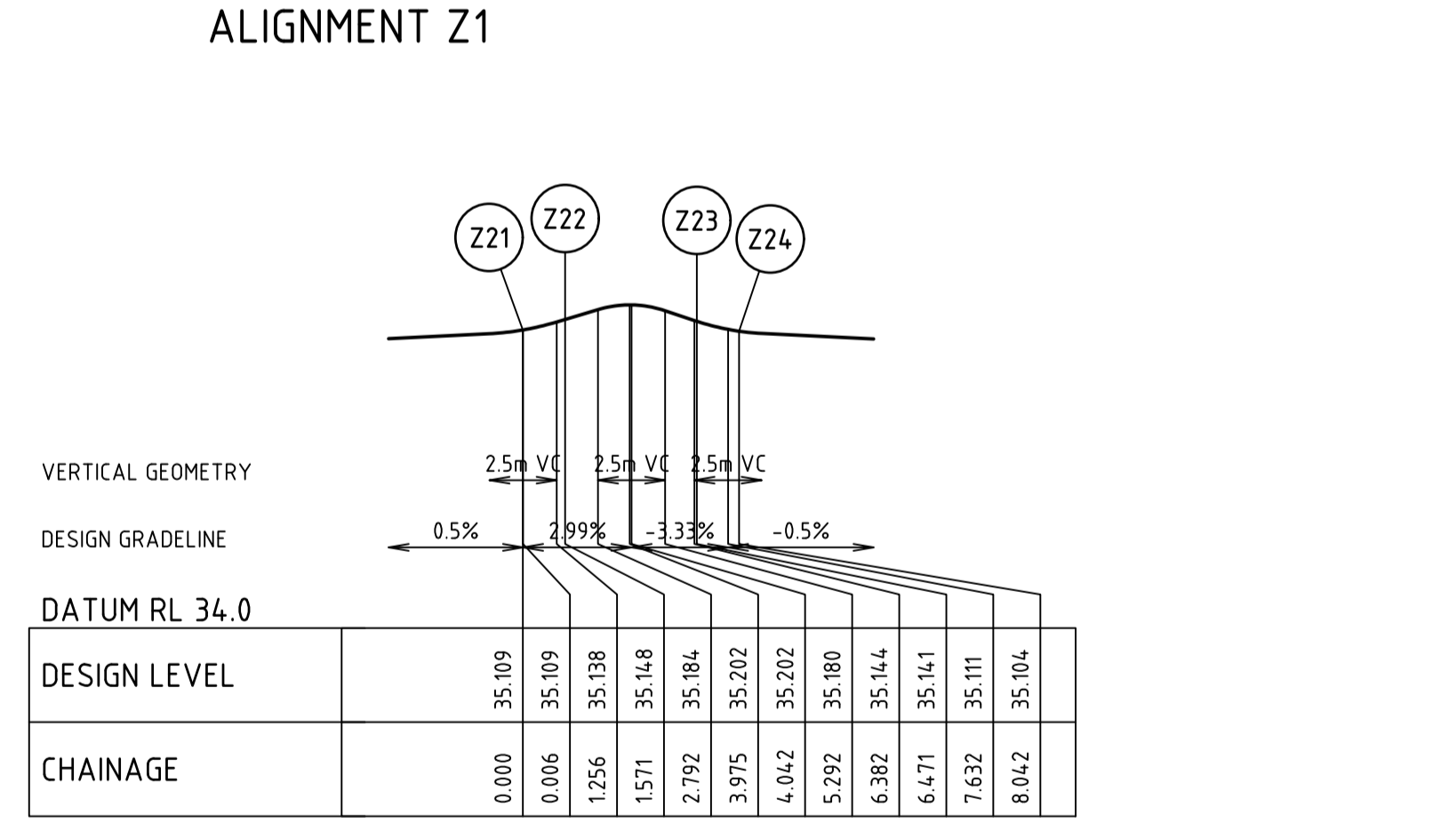
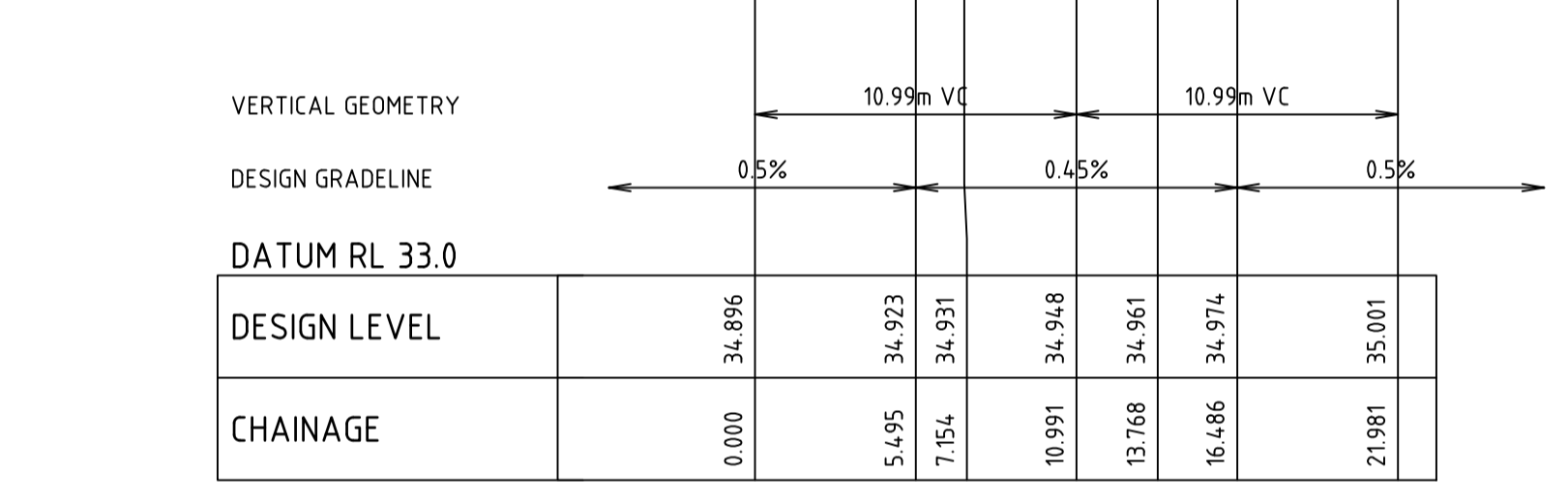
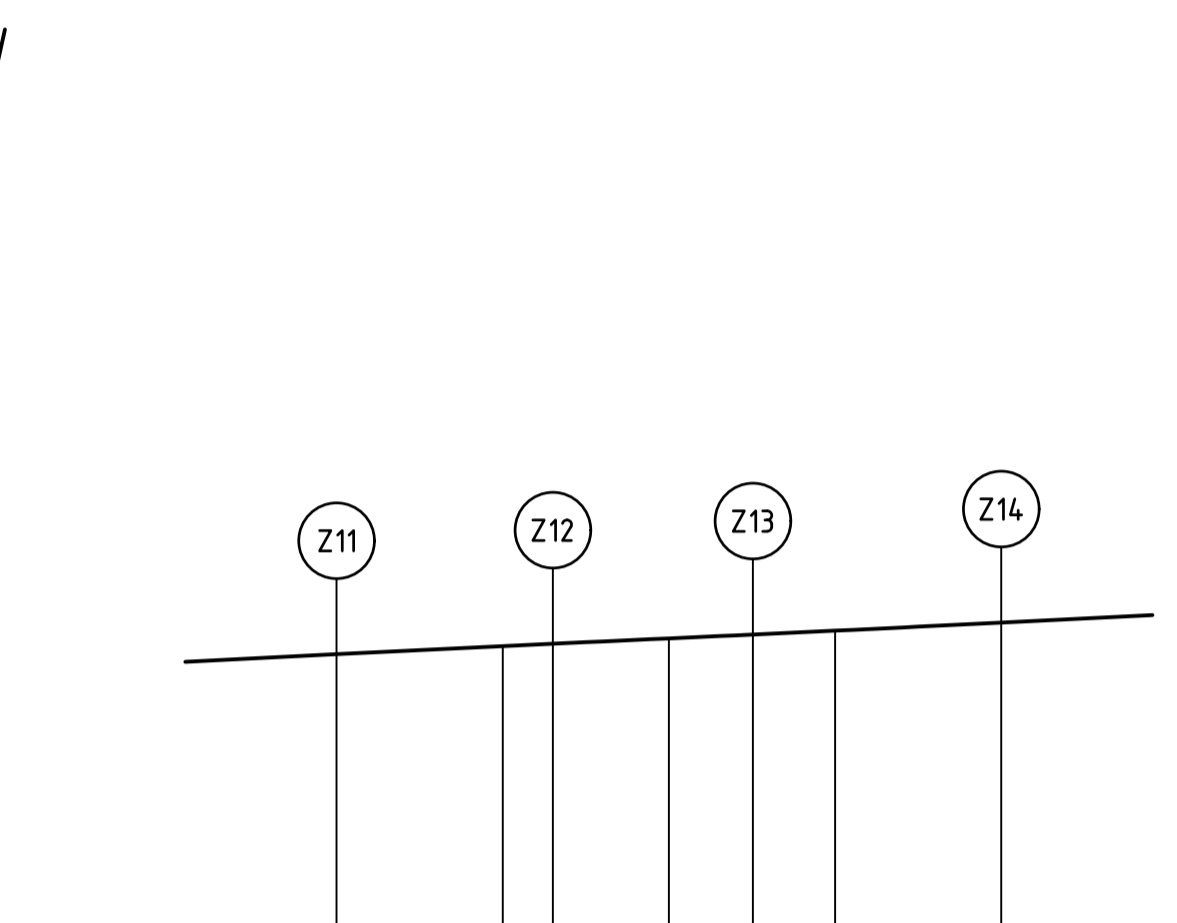
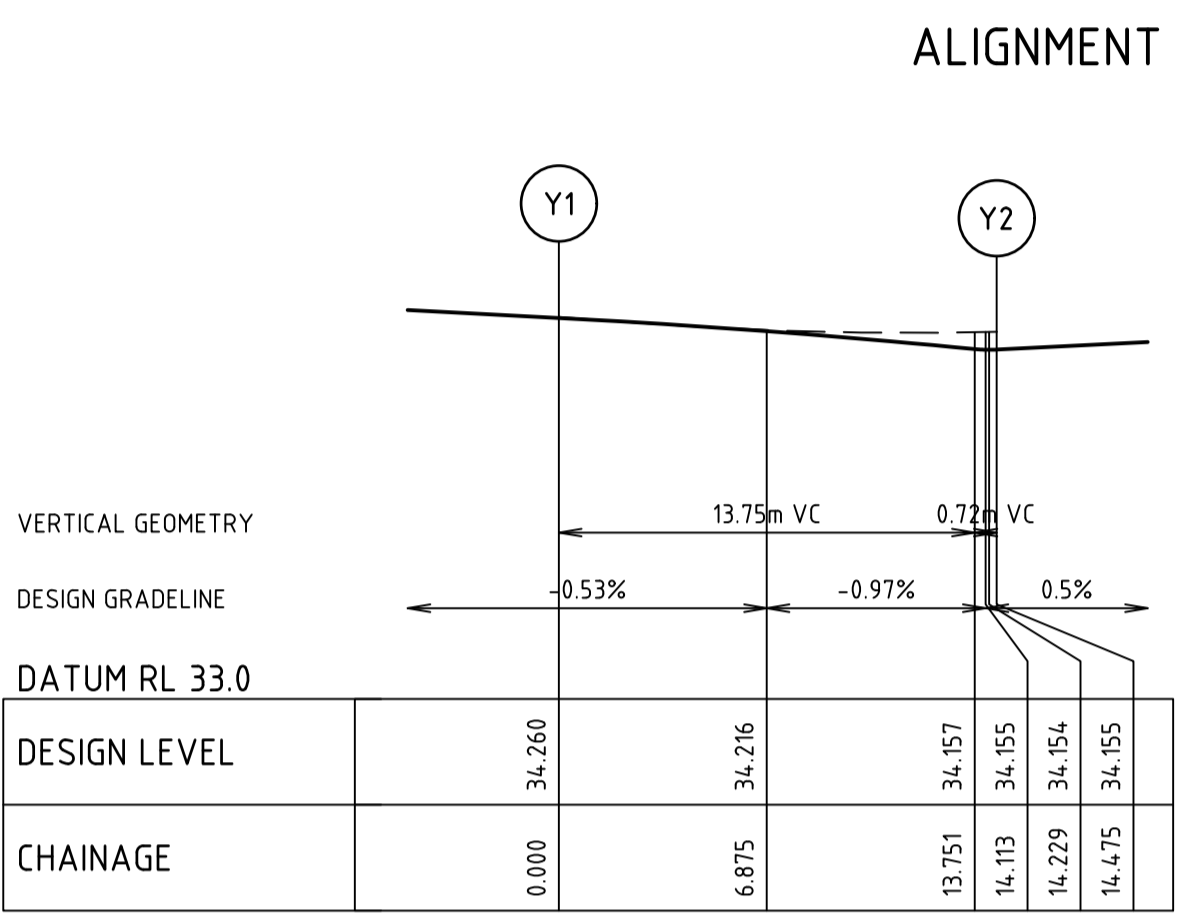
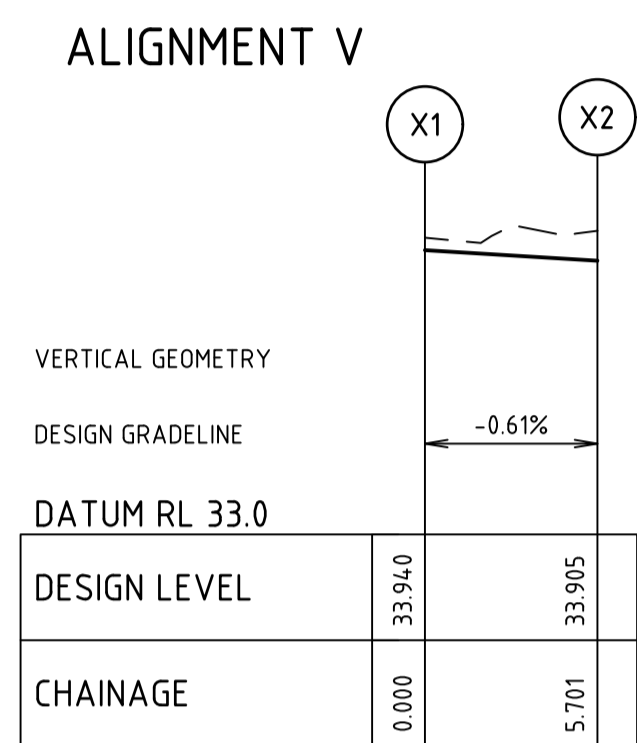
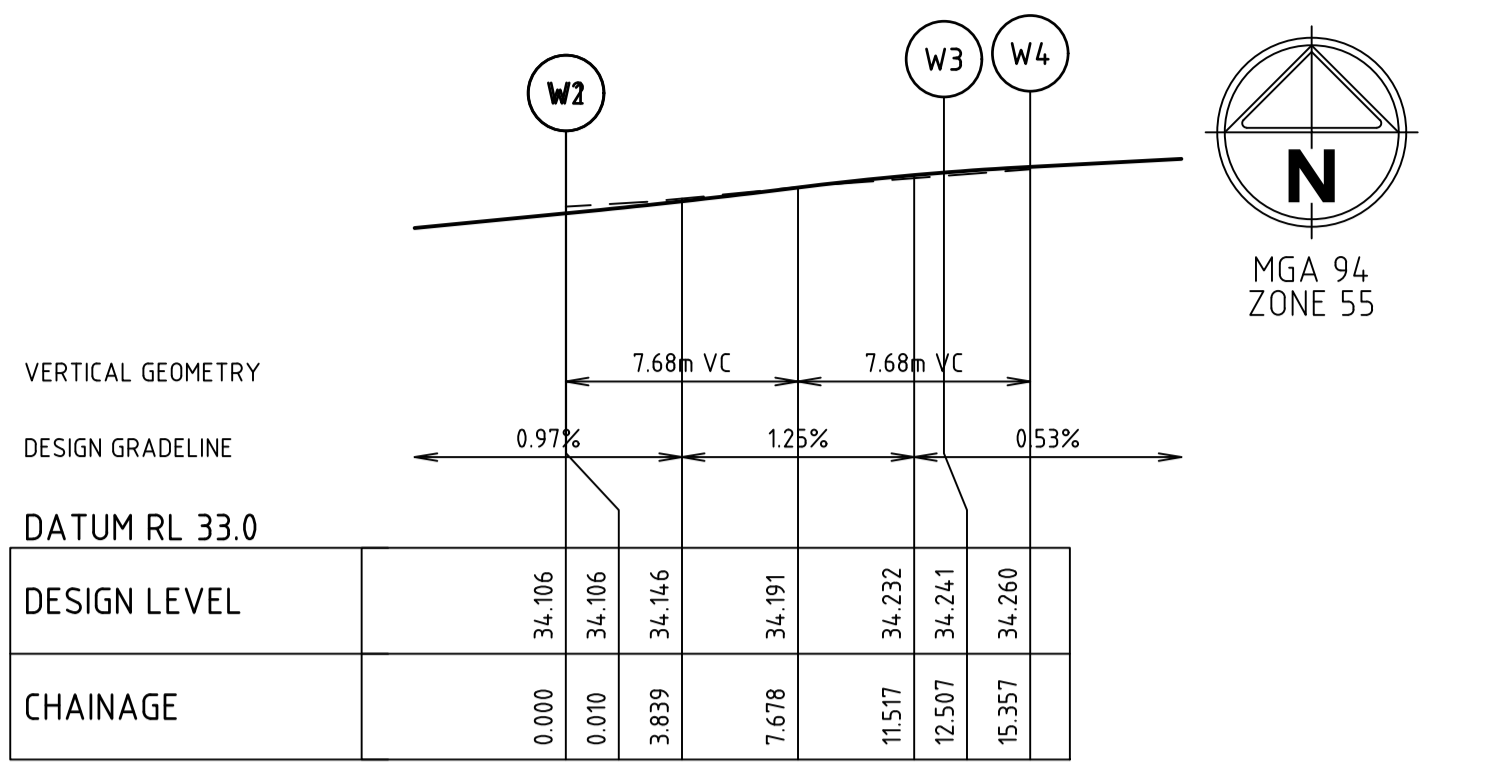
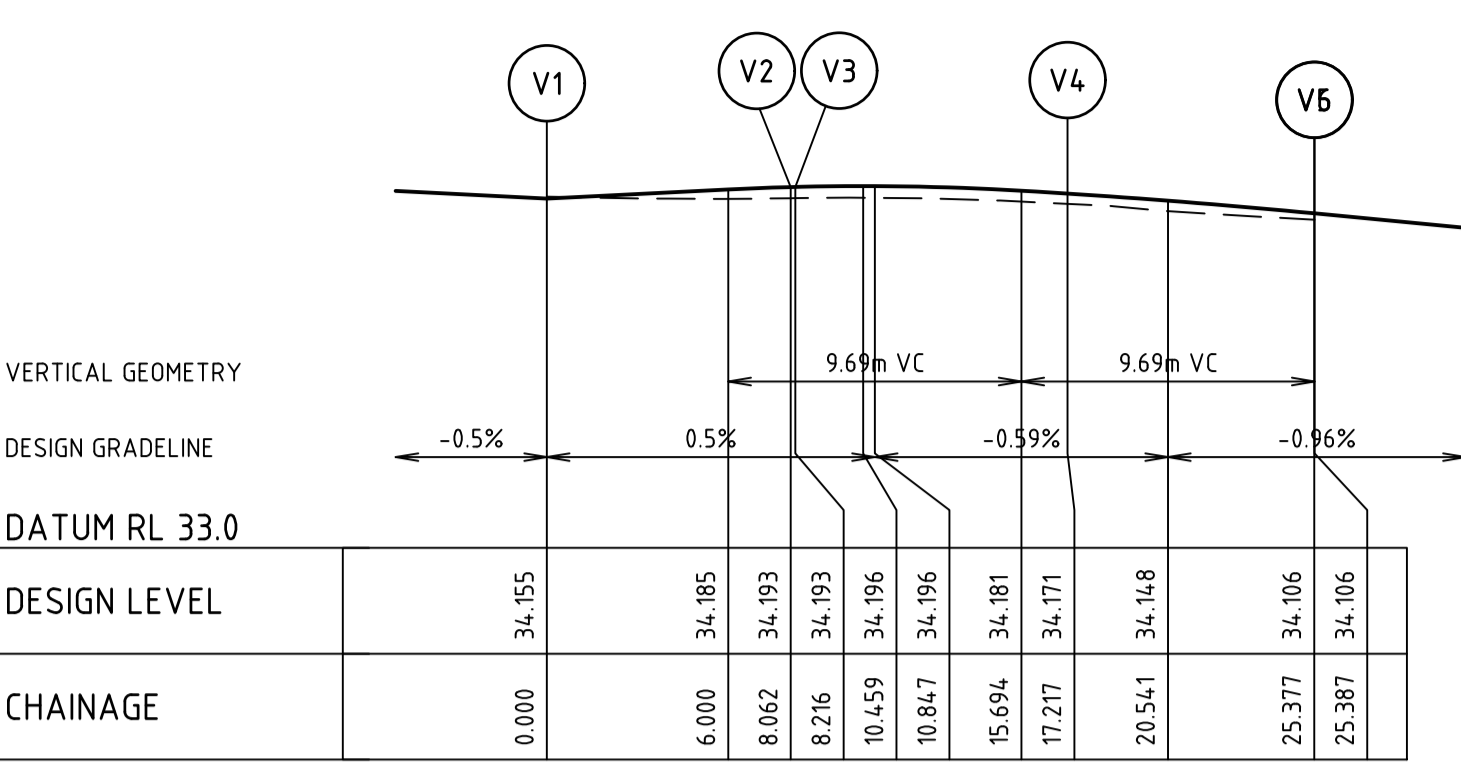
POINT NO	EASTING	NORTHING	RL	CHAINAGE
Z11	359098.696	5785099.099	34.896	0.000
¼	359098.976	5785100.864	34.905	1.789
½	359099.505	5785102.571	34.914	3.577
Z12	359101.261	5785105.674	34.931	7.154
¼	359102.080	5785107.104	34.939	8.808
½	359102.480	5785108.703	34.946	10.461
Z13	359101.932	5785111.922	34.961	13.768
¼	359101.175	5785113.829	34.971	15.821
½	359100.677	5785115.819	34.981	17.874
¾	359100.446	5785117.858	34.991	19.928
Z14	359100.486	5785119.909	35.001	21.981

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Z11-Z12	1.000	1.571	1.414	0.293	0.076
Z12-Z13	1.000	1.571	1.414	0.293	0.076

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
Z11-Z12	12.500	7.154	7.057	0.508	0.128
Z12-Z13	6.000	6.613	6.284	0.888	0.226
Z13-Z14	15.500	8.213	8.117	0.541	0.136



KERB RETURN SETOUT DETAIL

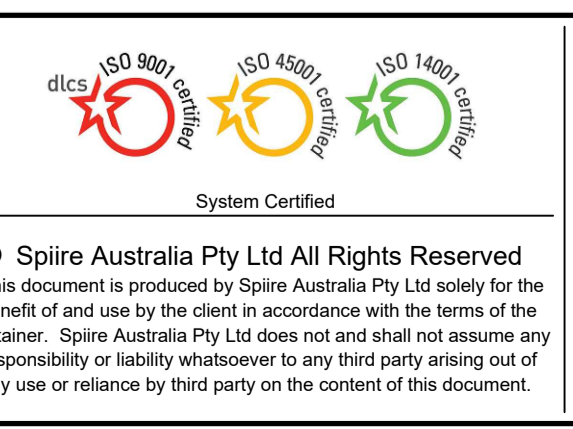
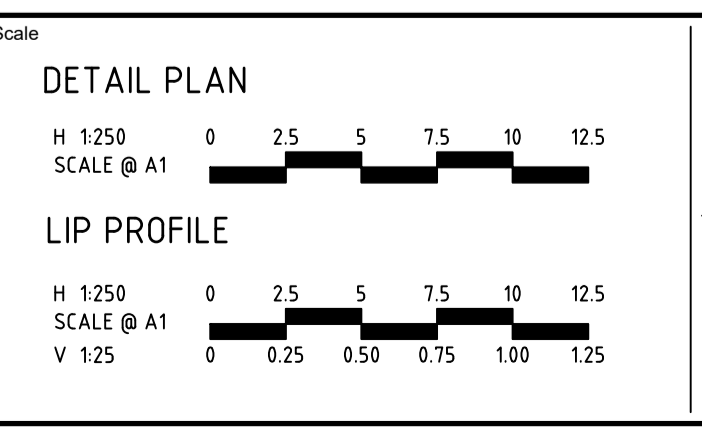


ALIGNMENT Z2

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No: S23-010 - T220246
Sheet: 22 of 30
Approved by: Vithu Vijeyakumar
CARDINIA SHIRE COUNCIL
Date: Tuesday, 31 October 2023

file name: 310306CR504.dwg, layout: name: CBE01, plotted by: Saurabh Sathya, plot date: 01/10/2023, plot scale: 1:1, plot size: A3, plot date: 01/10/2023, 12:27 PM, Sheet 22 of 30 Sheets

Rev	Description	Approved	Date
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023
	Amendments		

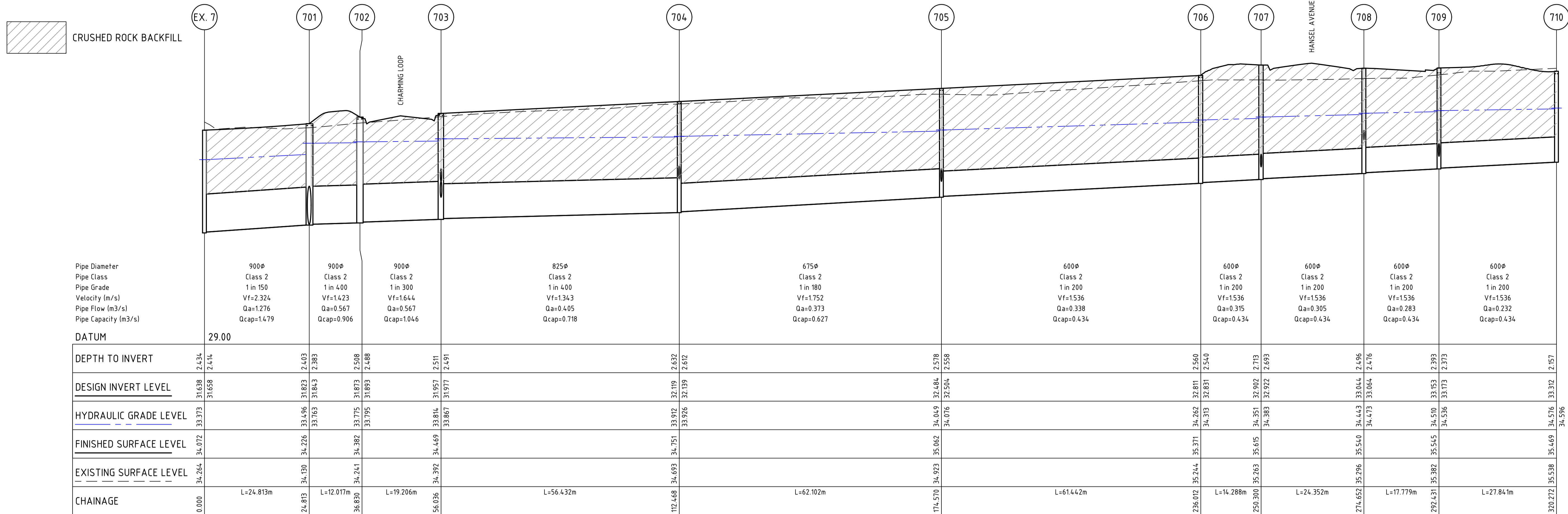


YourLand Developments

Designed: S.SALHAN
Checked: B.IBBS
Authorised: B.WAREHAM
Date: 18/10/2023

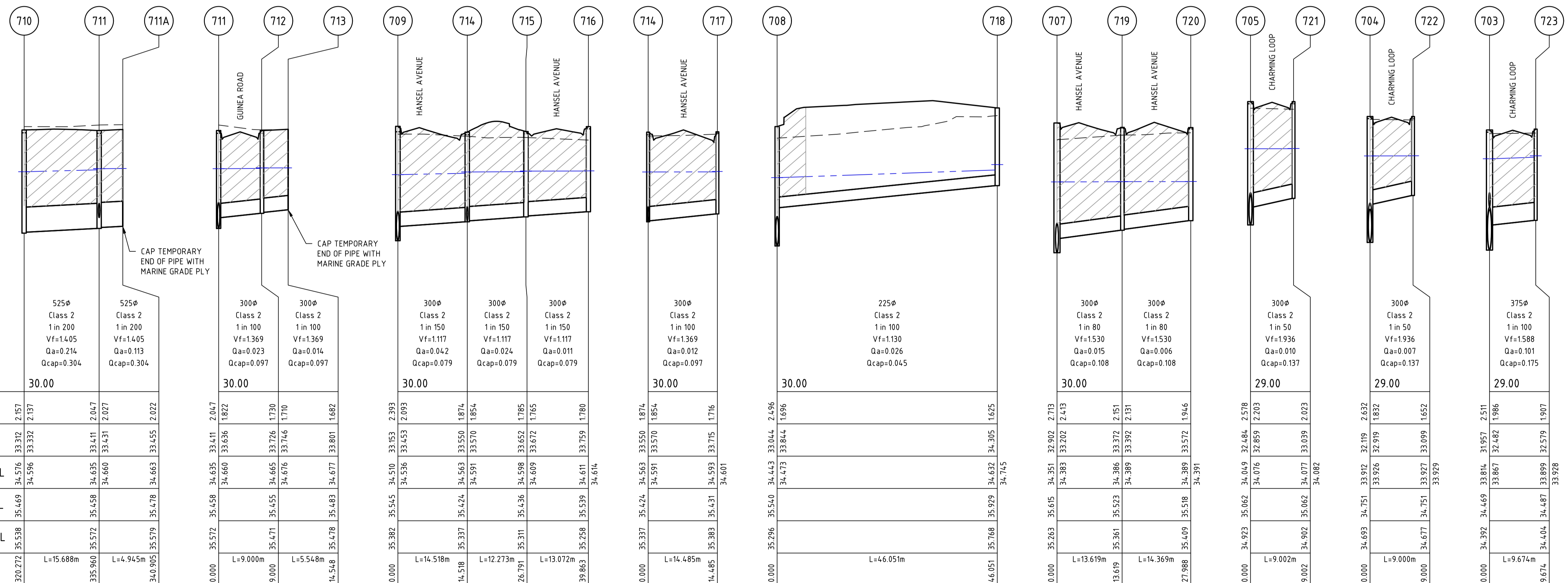
OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 5
CARDINIA SHIRE
YOURLAND PTY LTD

PRELIMINARY Dwg No: 310306CR504 Rev: B



Station	700	701	702	703	704	705	706	707	708	709	710
Pipe Diameter	900φ	900φ	900φ	825φ	675φ	600φ	600φ	600φ	600φ	600φ	600φ
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2
Pipe Grade	1 in 150	1 in 400	1 in 300	1 in 400	1 in 180	1 in 200	1 in 200	1 in 200	1 in 200	1 in 200	1 in 200
Velocity (m/s)	Vf=2.324	Vf=1.423	Vf=1.644	Vf=1.343	Vf=1.752	Vf=1.536	Vf=1.536	Vf=1.536	Vf=1.536	Vf=1.536	Vf=1.536
Pipe Flow (m ³ /s)	Qa=1.276	Qa=0.567	Qa=0.567	Qa=0.405	Qa=0.373	Qa=0.338	Qa=0.315	Qa=0.305	Qa=0.283	Qa=0.232	Qa=0.232
Pipe Capacity (m ³ /s)	Qcap=1.479	Qcap=0.906	Qcap=1.046	Qcap=0.718	Qcap=0.627	Qcap=0.434	Qcap=0.434	Qcap=0.434	Qcap=0.434	Qcap=0.434	Qcap=0.434
DATUM	29.00										
DEPTH TO INVERT	2.434	2.403	2.508	2.632	2.558	2.560	2.540	2.713	2.496	2.393	2.157
DESIGN INVERT LEVEL	31.638	31.823	31.873	32.119	32.594	32.811	32.831	32.902	33.044	33.153	33.312
HYDRAULIC GRADE LEVEL	33.373	33.496	33.775	33.912	33.926	34.049	34.313	34.351	34.443	34.510	34.576
FINISHED SURFACE LEVEL	34.072	34.226	34.382	34.469	34.751	35.062	35.371	35.615	35.540	35.545	35.469
EXISTING SURFACE LEVEL	34.264	34.130	34.241	34.392	34.693	34.923	35.244	35.263	35.296	35.382	35.538
CHAINAGE	0.000	L=24.813m	L=12.017m	L=19.206m	L=56.432m	L=62.102m	L=61.442m	L=14.288m	L=24.352m	L=17.779m	L=27.841m

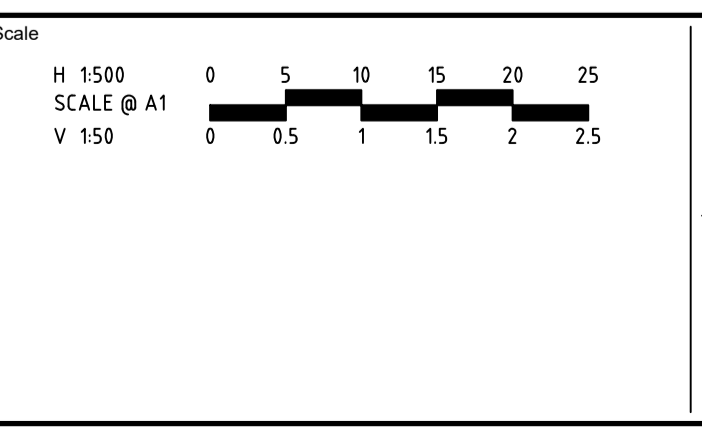
APPROVED FOR CONSTRUCTION
 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 23 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



Station	710	711	711A	711	712	713	709	714	715	716	714	717	708	718	707	719	720	705	721	704	722	703	723	
Pipe Diameter	525φ	525φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	225φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	300φ	375φ	
Pipe Class	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	Class 2	
Pipe Grade	1 in 200	1 in 200	1 in 100	1 in 100	1 in 100	1 in 100	1 in 150	1 in 150	1 in 150	1 in 150	1 in 100	1 in 100	1 in 100	1 in 80	1 in 80	1 in 80	1 in 80	1 in 50	1 in 50	1 in 50	1 in 50	1 in 100	1 in 100	
Velocity (m/s)	Vf=1.405	Vf=1.405	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.117	Vf=1.117	Vf=1.117	Vf=1.117	Vf=1.369	Vf=1.369	Vf=1.369	Vf=1.530	Vf=1.530	Vf=1.530	Vf=1.530	Vf=1.936	Vf=1.936	Vf=1.936	Vf=1.936	Vf=1.588	Vf=1.588	
Pipe Flow (m ³ /s)	Qa=0.214	Qa=0.214	Qa=0.023	Qa=0.023	Qa=0.023	Qa=0.023	Qa=0.042	Qa=0.024	Qa=0.024	Qa=0.011	Qa=0.012	Qa=0.012	Qa=0.026	Qa=0.015	Qa=0.006	Qa=0.006	Qa=0.006	Qa=0.010	Qa=0.010	Qa=0.010	Qa=0.007	Qa=0.007	Qa=0.101	
Pipe Capacity (m ³ /s)	Qcap=0.304	Qcap=0.304	Qcap=0.097	Qcap=0.097	Qcap=0.097	Qcap=0.097	Qcap=0.079	Qcap=0.079	Qcap=0.079	Qcap=0.079	Qcap=0.097	Qcap=0.097	Qcap=0.045	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.108	Qcap=0.137	Qcap=0.137	Qcap=0.137	Qcap=0.137	Qcap=0.175	Qcap=0.175	
DATUM	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	29.00	29.00	29.00	29.00	29.00	29.00	
DEPTH TO INVERT	2.157	2.137	2.047	1.822	1.730	1.710	2.393	1.874	1.854	1.785	1.785	1.716	2.496	2.713	2.413	2.151	1.946	2.578	2.203	2.632	1.986	2.511	1.907	
DESIGN INVERT LEVEL	33.312	33.332	33.411	33.636	33.726	33.746	33.453	33.550	33.570	33.652	33.672	33.715	33.844	34.002	34.002	34.002	34.002	34.077	34.077	34.077	34.077	34.077	34.077	34.077
HYDRAULIC GRADE LEVEL	34.576	34.596	34.635	34.660	34.665	34.676	34.536	34.563	34.591	34.609	34.611	34.611	34.473	34.581	34.686	34.686	34.686	34.686	34.686	34.686	34.686	34.686	34.686	34.686
FINISHED SURFACE LEVEL	35.469	35.469	35.458	35.478	35.478	35.478	35.545	35.424	35.436	35.436	35.436	35.436	35.540	35.615	35.523	35.523	35.518	35.518	35.518	35.518	35.518	35.518	35.518	35.518
EXISTING SURFACE LEVEL	35.538	35.538	35.572	35.579	35.579	35.579	35.382	35.337	35.337	35.337	35.258	35.258	35.296	35.296	35.361	35.361	35.409	35.409	35.409	35.409	35.409	35.409	35.409	35.409
CHAINAGE	L=15.688m	L=4.945m	L=9.000m	L=5.548m	L=14.518m	L=12.273m	L=13.072m	L=14.485m	L=14.485m	L=14.485m	L=14.485m	L=14.485m	L=14.485m	L=13.619m	L=14.369m	L=9.002m	L=9.002m	L=9.002m	L=9.002m	L=9.000m	L=9.000m	L=9.674m	L=9.674m	

file name: 310306CR600.dwg, layout: name: CR600, created by: Saurav, sheet: 23 of 30, date: 10/10/2023 12:17 PM, sheet: 23 of 30, sheets: 30

Rev	Amendments	Approved	Date
C	UPDATED DRAINAGE	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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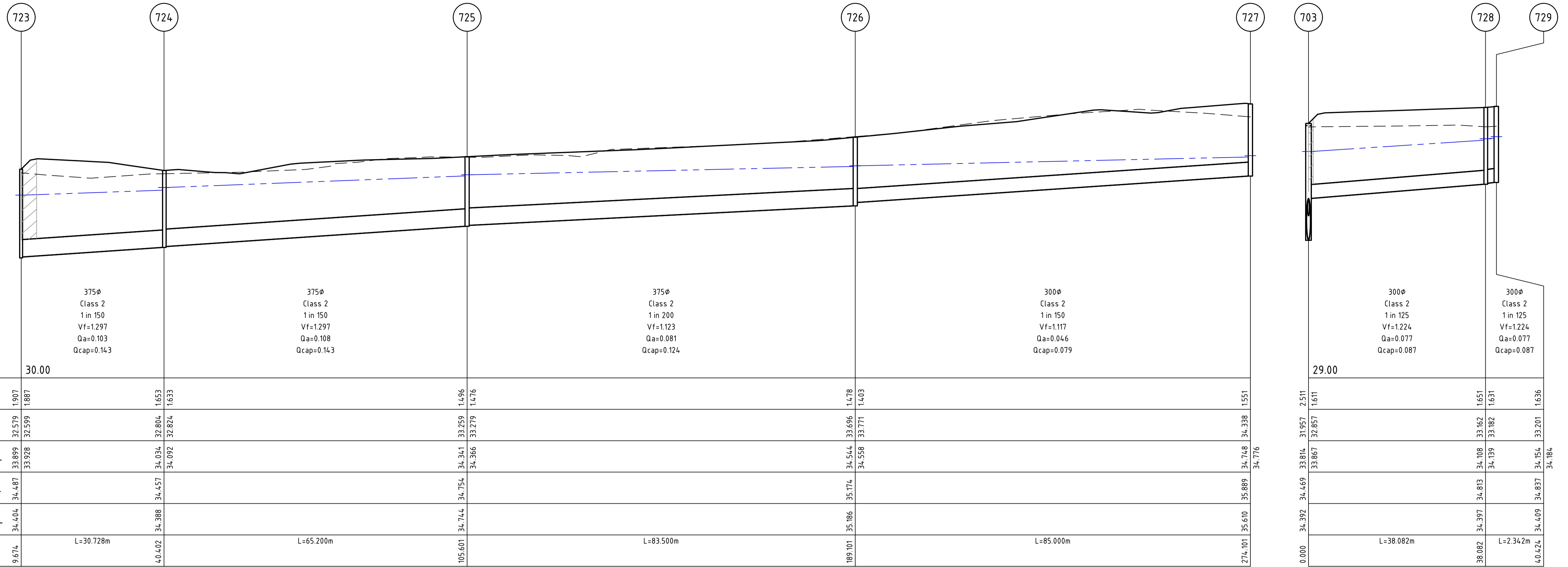
YourLand Developments

Designed: S.SALHAN
 Authorised: B.WAREHAM

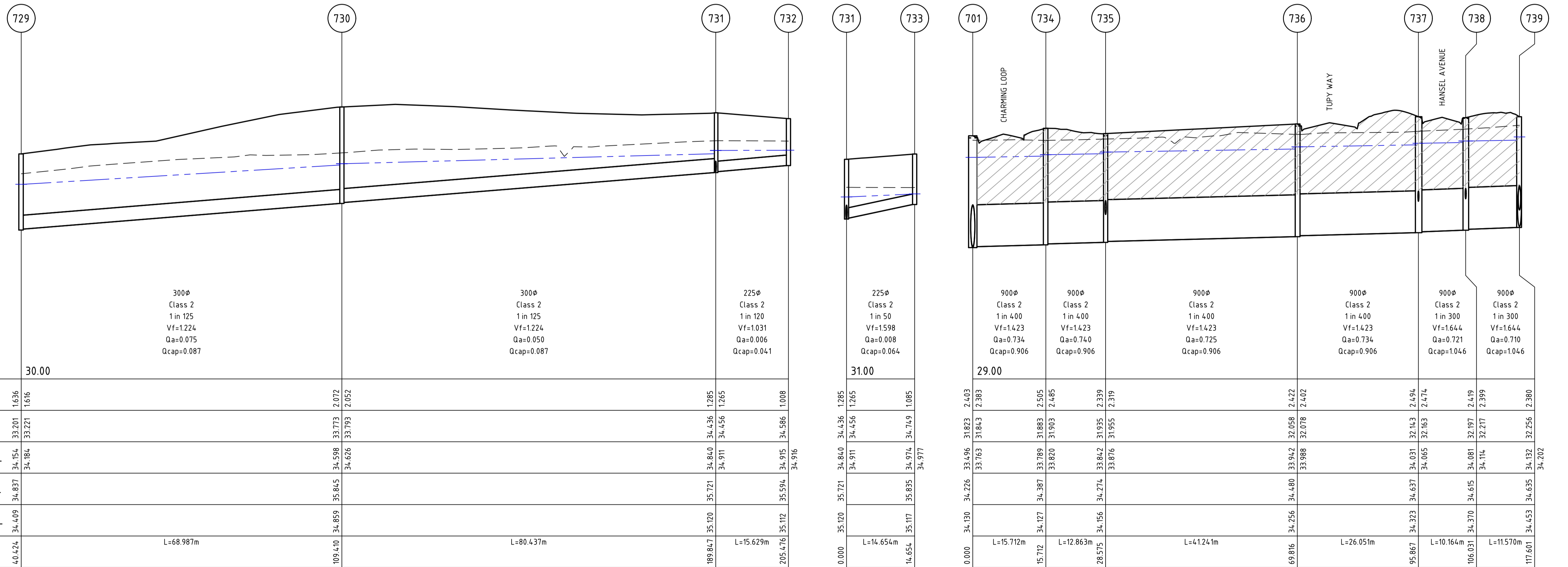
Checked: B.IBBS
 Date: 18/10/2023

**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - SHEET 1
 CARDINIA SHIRE
 YOURLAND PTY LTD**

PRELIMINARY Dwg No: 310306CR600 Rev: C

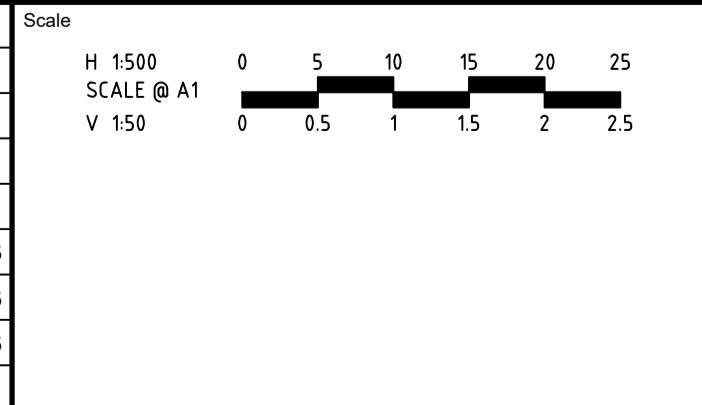


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CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 24 of 30
 Approved by: Vithu Vijayakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023



file name: 310306CR600.dwg, layout: name: CR601, plotted by: Saurav, Salhan, Date: 10/10/2023 12:17 PM, Sheet: 24 of 30, Sheets: 30, Location: \\spire\media\310306\310306.dwg, plot date: 10/10/2023 12:17 PM, Sheet: 24 of 30, Sheets: 30

Rev	Amendments	Approved	Date
C	UPDATED DRAINAGE	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



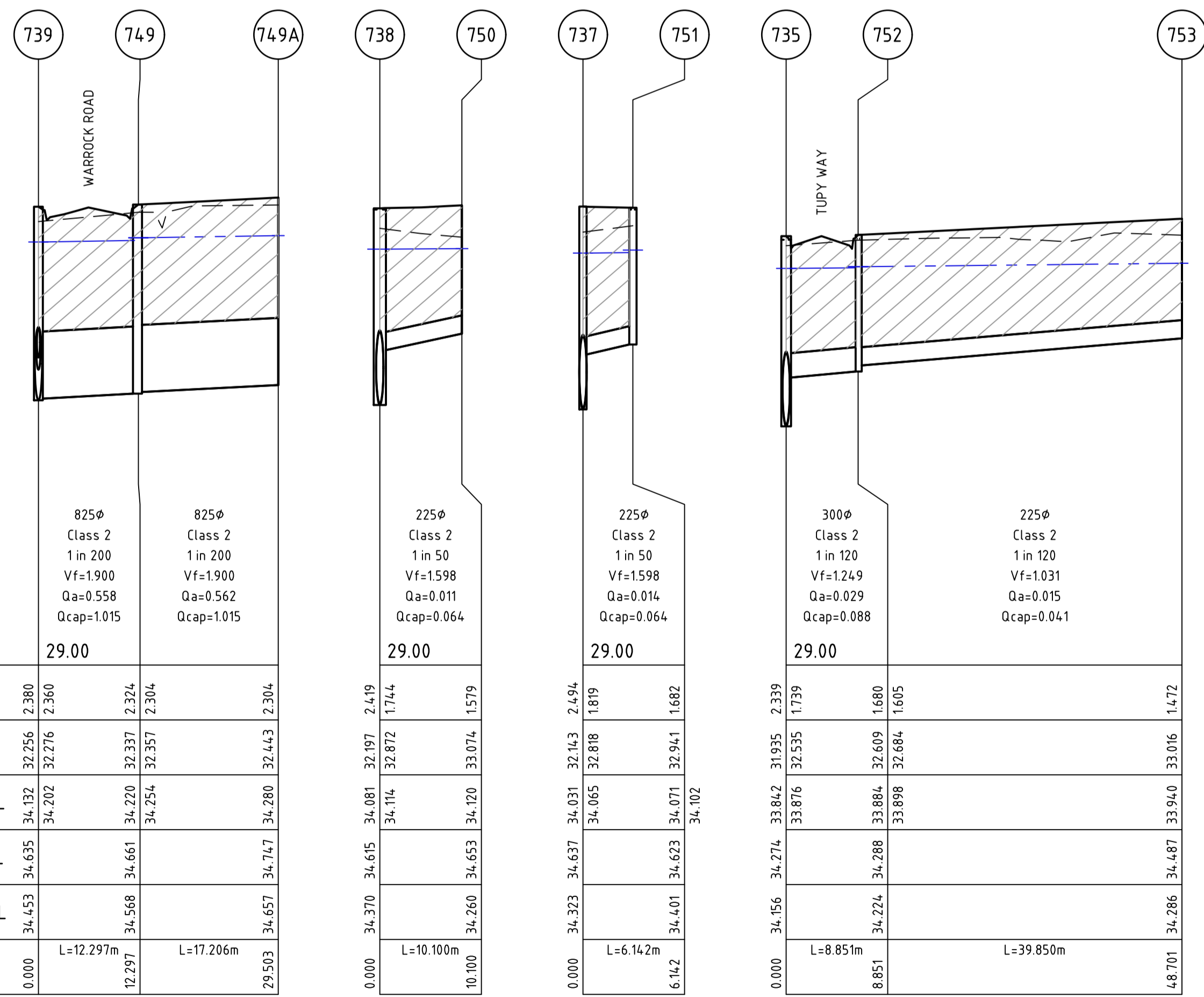
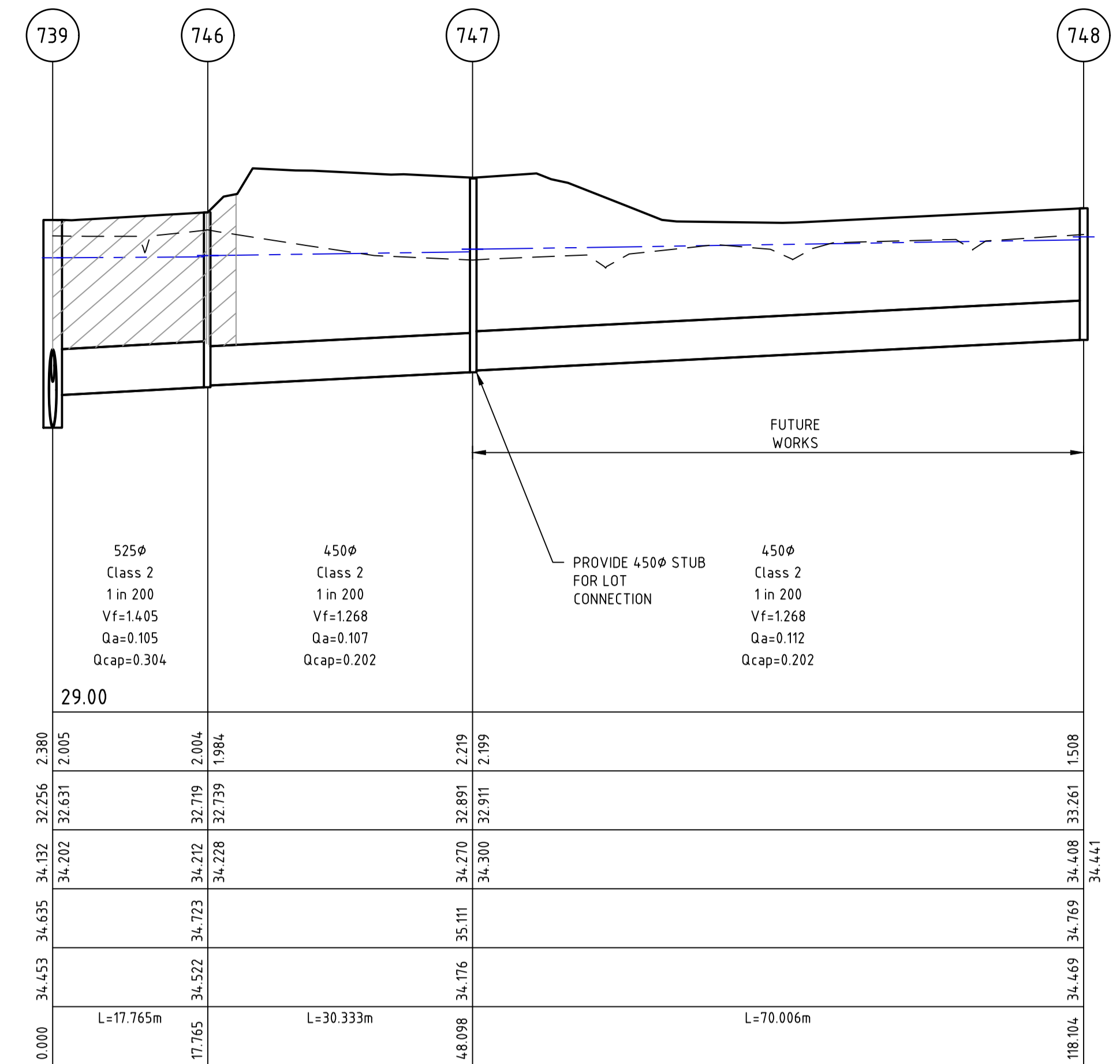
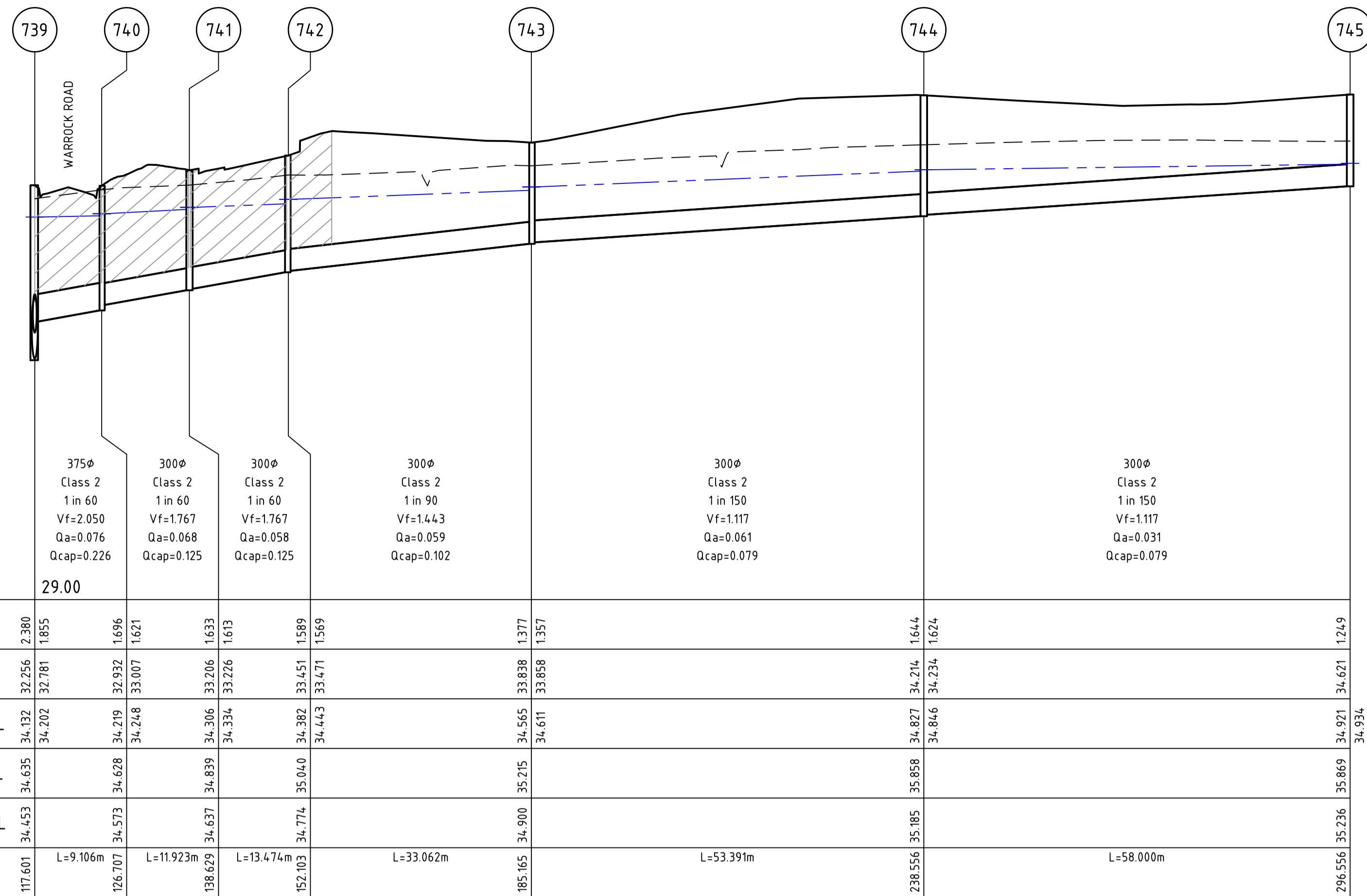
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Designed: S.SALHAN
 Authorised: B.WAREHAM
 Checked: B.IBBS
 Date: 18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 2
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Drg No: 310306CR601 Rev: C


 CRUSHED ROCK BACKFILL




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 CARDINIA SHIRE COUNCIL
 Ref No.: S23-010 - T220246
 Sheet: 25 of 30
 Approved by: Vithu Vijeyakumar
 CARDINIA SHIRE COUNCIL
 Date: Tuesday, 31 October 2023

file name: 310306CR602.dwg, layout: name: CR602, plotted by: Survey, S:\shba, file location: R:\310306CR602\310306CR602.dwg, plot date: 18/10/2023, 12:17 PM, Sheet 25 of 30, Sheets

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Rev	C	UPDATED DRAINAGE	B.W.	08/09/2023
	B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
	A	PRELIMINARY ISSUE	B.W.	01/05/2023
	Amendments		Approved	Date


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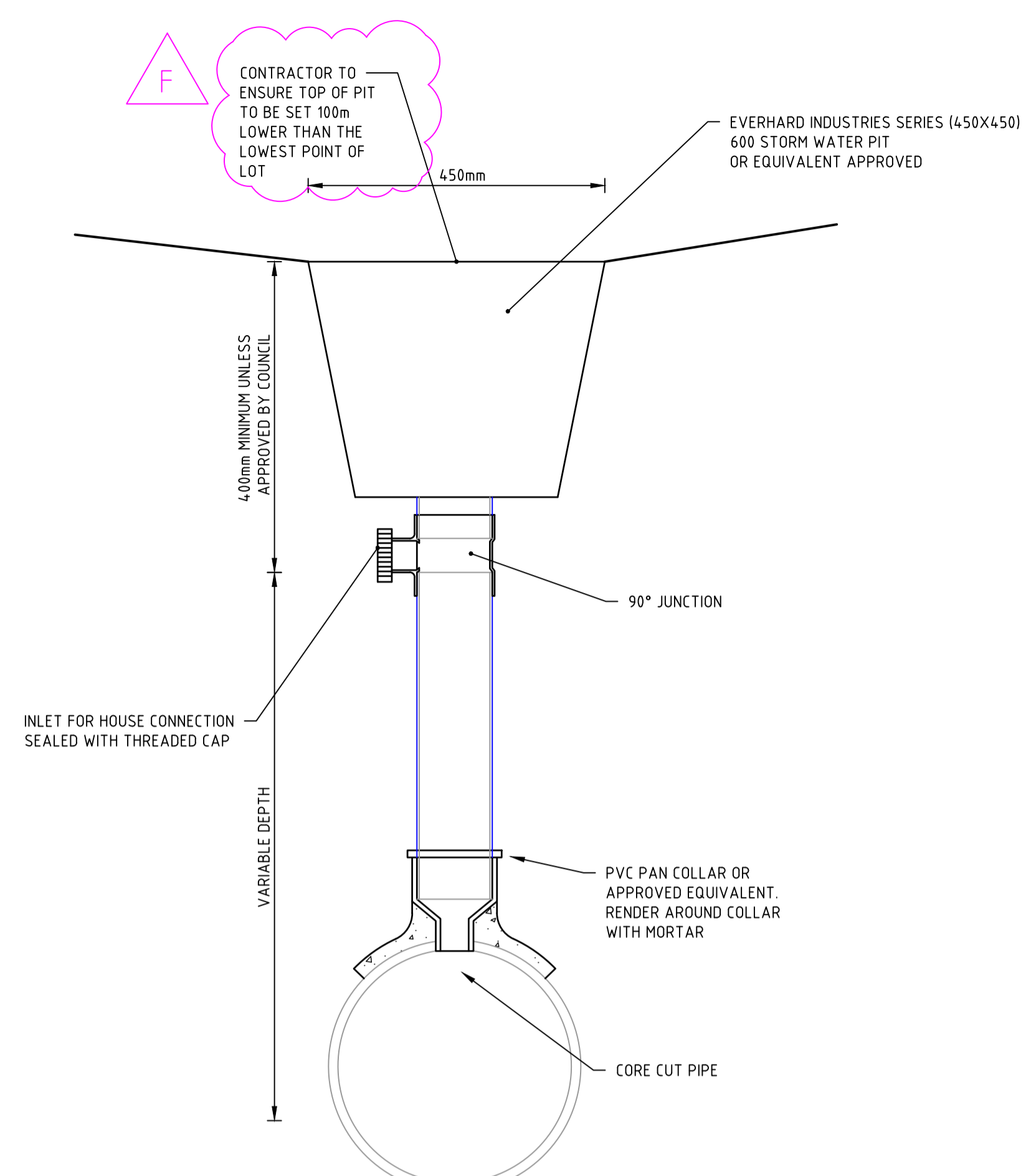

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 Authorised
 B.WAREHAM
 Checked
 B.IBBS
 Date
 18/10/2023

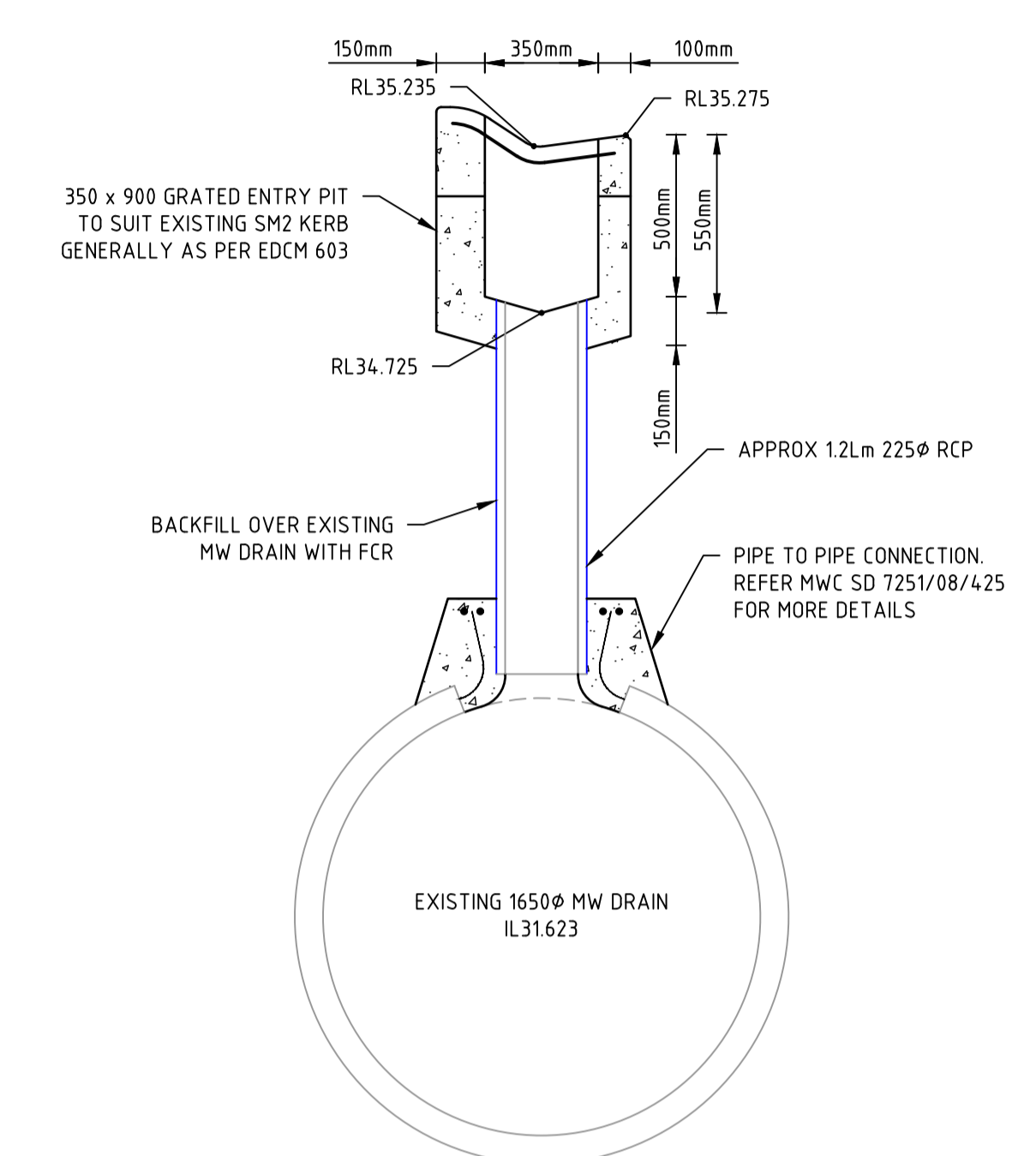
OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 3
 CARDINIA SHIRE
 YOURLAND PTY LTD
PRELIMINARY Dwg No 310306CR602 Rev C

DRAINAGE PIT SCHEDULE

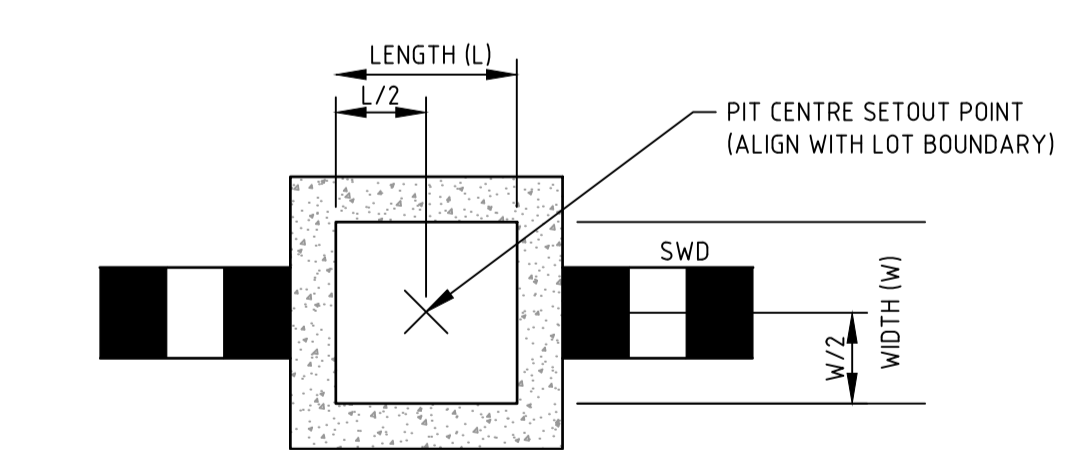
NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
EX. 7	GRATED JUNCTION PIT	1200	900	900	31.658			34.072	2.434	EXISTING PIT
701	GRATED SIDE ENTRY PIT	1200	1500	900	31.843	900	31.823	34.226	2.403	REFER TO EDCM 603
702	GRATED SIDE ENTRY PIT	900	1500	900	31.893	900	31.873	34.382	2.508	REFER TO EDCM 603. HAUNCH PIT
703	GRATED SIDE ENTRY PIT	1200	1200	825	31.977	900	31.957	34.469	2.511	REFER TO EDCM 603
704	GRATED SIDE ENTRY PIT	1200	900	675	32.139	825	32.119	34.751	2.632	REFER TO EDCM 603
705	GRATED SIDE ENTRY PIT	1200	900	600	32.504	675	32.484	35.062	2.578	REFER TO EDCM 603
706	GRATED SIDE ENTRY PIT	900	900	600	32.831	600	32.811	35.371	2.560	REFER TO EDCM 603
707	JUNCTION PIT	1200	900	600	32.922	600	32.902	35.615	2.713	REFER TO EDCM 605 W/ HEAVY DUTY CLASS D LID
708	JUNCTION PIT	900	900	600	33.064	600	33.044	35.540	2.496	REFER TO EDCM 605 W/ HEAVY DUTY CLASS D LID
709	GRATED SIDE ENTRY PIT	900	900	600	33.173	600	33.153	35.545	2.393	REFER TO EDCM 603 W/ HEAVY DUTY CLASS D LID
710	GRATED SIDE ENTRY PIT	900	900	525	33.332	600	33.312	35.469	2.157	REFER TO EDCM 603
711	DOUBLE SIDE ENTRY PIT	900	1800	525	33.431	525	33.411	35.458	2.047	REFER TO EDCM 604
711A	ENDPIPE	0	0	300	33.636					
712	DOUBLE SIDE ENTRY PIT	600	1800	300	33.746	300	33.726	35.455	1.730	REFER TO EDCM 604
713	ENDPIPE	0	0	300	33.801	300	33.801	35.483	1.682	CAP END W/ MARINE GRADE PLY
714	DOUBLE SIDE ENTRY PIT	600	1800	300	33.570	300	33.550	35.424	1.874	REFER TO EDCM 604
715	GRATED SIDE ENTRY PIT	600	900	300	33.672	300	33.652	35.436	1.785	REFER TO EDCM 603 MODIFIED FOR M2 KERB W/ HEAVY DUTY CLASS D LID
716	GRATED SIDE ENTRY PIT	600	900	300	33.759	300	33.759	35.539	1.780	REFER TO EDCM 603 W/ HEAVY DUTY CLASS D LID
717	GRATED SIDE ENTRY PIT	1800	600			300	33.715	35.431	1.716	REFER TO VIC ROADS 1321
718	JUNCTION PIT	600	900			225	34.305	35.929	1.625	REFER TO EDCM 605
719	GRATED SIDE ENTRY PIT	600	900	300	33.392	300	33.372	35.523	2.151	REFER TO EDCM 603
720	GRATED SIDE ENTRY PIT	600	900			300	33.572	35.518	1.946	REFER TO EDCM 603
721	GRATED SIDE ENTRY PIT	600	900			300	33.039	35.062	2.023	REFER TO EDCM 603
722	GRATED SIDE ENTRY PIT	600	900			300	33.099	34.751	1.652	REFER TO EDCM 603
723	JUNCTION PIT	600	900	375	32.599	375	32.579	34.487	1.907	REFER TO EDCM 605
724	JUNCTION PIT	600	900	375	32.824	375	32.804	34.457	1.653	REFER TO EDCM 605
725	JUNCTION PIT	600	900	375	33.279	375	33.259	34.754	1.496	REFER TO EDCM 605 W/ GRATED LID
726	JUNCTION PIT	600	900	300	33.771	375	33.696	35.174	1.478	REFER TO EDCM 605 W/ GRATED LID
727	JUNCTION PIT	600	900			300	34.338	35.889	1.551	REFER TO EDCM 605 W/ GRATED LID
728	JUNCTION PIT	600	900	300	33.182	300	33.162	34.813	1.651	REFER TO EDCM 605
729	JUNCTION PIT	600	900	300	33.221	300	33.201	34.837	1.636	REFER TO EDCM 605
730	JUNCTION PIT	600	900	300	33.793	300	33.773	35.845	2.072	REFER TO EDCM 605
731	JUNCTION PIT	600	900	225	34.456	300	34.436	35.721	1.285	REFER TO EDCM 605
732	JUNCTION PIT	600	900			225	34.586	35.594	1.008	REFER TO EDCM 605
733	JUNCTION PIT	600	900			225	34.749	35.835	1.085	REFER TO EDCM 605
734	JUNCTION PIT	1200	900	900	31.903	900	31.883	34.387	2.505	REFER TO EDCM 605
735	GRATED SIDE ENTRY PIT	1200	900	900	31.955	900	31.935	34.274	2.339	REFER TO EDCM 603
736	GRATED SIDE ENTRY PIT	1200	900	900	32.078	900	32.058	34.480	2.422	REFER TO EDCM 603
737	JUNCTION PIT	1200	900	900	32.163	900	32.143	34.637	2.494	REFER TO EDCM 605
738	GRATED SIDE ENTRY PIT	900	1500	900	32.217	900	32.197	34.615	2.419	REFER TO EDCM 603
739	GRATED SIDE ENTRY PIT	2100	900	375	32.781	900	32.256	34.635	2.380	REFER TO EDCM 603. HAUNCH PIT
740	GRATED SIDE ENTRY PIT	600	900	300	33.007	375	32.932	34.628	1.696	REFER TO EDCM 603
741	GRATED SIDE ENTRY PIT	600	900	300	33.226	300	33.206	34.839	1.633	REFER TO EDCM 603
742	JUNCTION PIT	600	900	300	33.471	300	33.451	35.040	1.589	REFER TO EDCM 605 W/ HEAVY DUTY CLASS D LID
743	JUNCTION PIT	600	900	300	33.858	300	33.838	35.215	1.377	REFER TO EDCM 605
744	JUNCTION PIT	600	900	300	34.234	300	34.214	35.858	1.644	REFER TO EDCM 605
745	JUNCTION PIT	600	900	300	34.621	300	34.621	35.869	1.249	REFER TO EDCM 605
746	JUNCTION PIT	600	900	450	32.739	525	32.719	34.723	2.004	REFER TO EDCM 605
747	JUNCTION PIT	600	900	450	32.911	450	32.891	35.111	2.219	REFER TO EDCM 605
748	JUNCTION PIT	600	900	450	33.261	450	33.261	34.769	1.508	FUTURE PIT
749	JUNCTION PIT	1200	900	825	32.337	825	32.337	34.661	2.324	REFER TO EDCM 605 W/ HEAVY DUTY CLASS D LID. TO BE HAUNCHED
749A	ENDPIPE	0	0	825	32.443			34.747	2.304	CAP END W/ MARINE GRADE PLY
750	ENDPIPE	0	0	225	33.074			34.653	1.579	CONNECT TO PROPERTY DRAIN
751	GRATED SIDE ENTRY PIT	600	900			225	32.941	34.623	1.682	REFER TO EDCM 603
752	GRATED SIDE ENTRY PIT	600	900	225	32.684	300	32.609	34.288	1.680	REFER TO EDCM 603
753	ENDPIPE	0	0	225	33.016			34.487	1.472	CONNECT TO PROPERTY DRAIN
754	GRATED ENTRY PIT	350	900			225	34.725	35.235	0.510	PIT TO BE CONSTRUCTED ON EXISTING DRAINAGE. SEE DETAIL



HOUSE DRAIN INLET
LOT 758-763, 765-770, 772-775
MODIFIED EDCM 702 OR EDCM 702B
NOT TO SCALE



PIT 754 ELEVATION
CONNECTION TO EXISTING PIPE
NOT TO SCALE



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

APPROVED FOR CONSTRUCTION
CARDINIA SHIRE COUNCIL
Ref No.: S23-010 - T220246
Sheet: 26 of 30
Approved by: Vithu Vijayakumar
CARDINIA SHIRE COUNCIL
Date: Tuesday, 31 October 2023

file name: 310306CR603.dwg, layout: name: CR603, plotted by: Saurabh, sheet: 26 of 30, sheets: 30, plot date: 08/10/2023, 12:27 PM, plot date: 08/10/2023, 12:27 PM, sheet: 26 of 30, sheets: 30

Rev	Amendments	Approved	Date
F	UPDATED PIT SIZE AND NOTE	B.W.	18/10/2023
E	UPDATED NOTE	B.W.	12/10/2023
D	REVISED PIT 717	B.W.	26/09/2023
C	UPDATED PIT SCHEDULE AND PIT DETAIL	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023

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Designed
S.SALHAN

Checked
B.IBBS

Authorised
B.WAREHAM

Date
18/10/2023

OFFICER CENTRAL
STAGE 7
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS - SHEET 4
CARDINIA SHIRE
YOURLAND PTY LTD

PRELIMINARY
310306CR603

Rev
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DESIGN PAVEMENT PROFILE

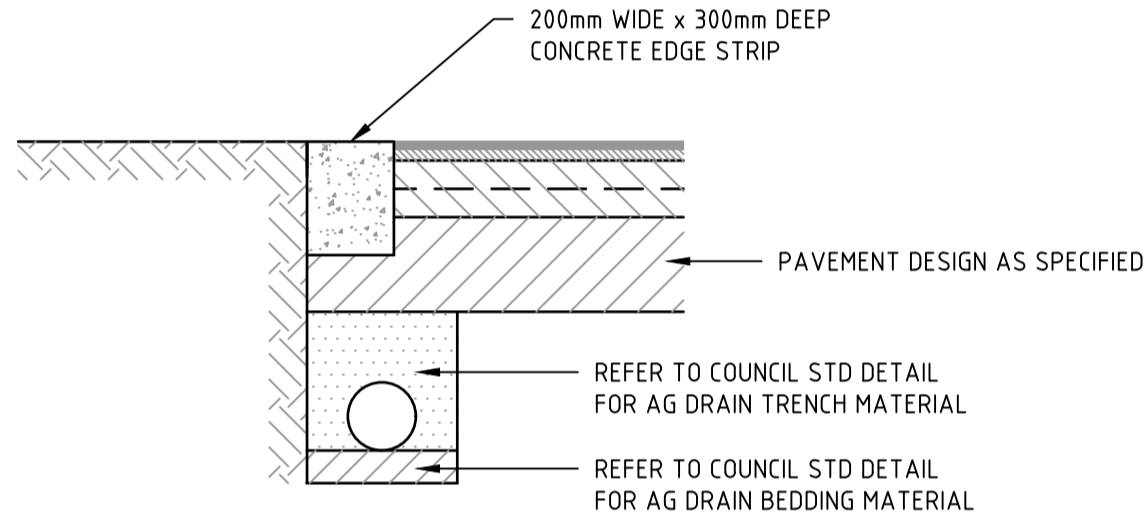
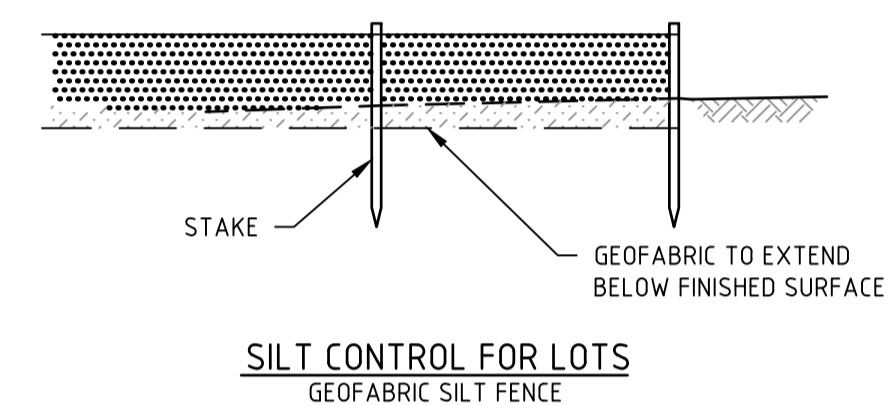
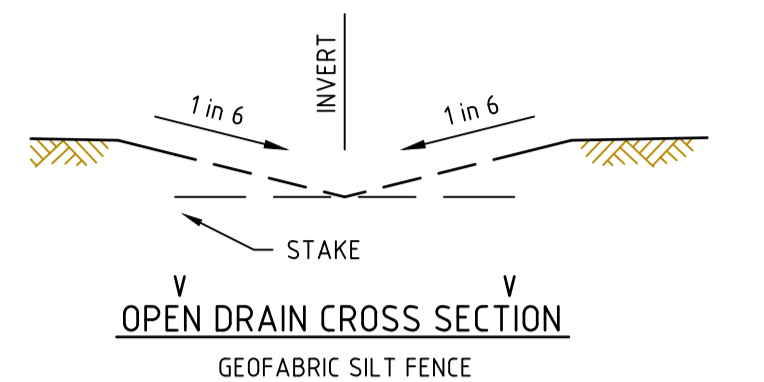
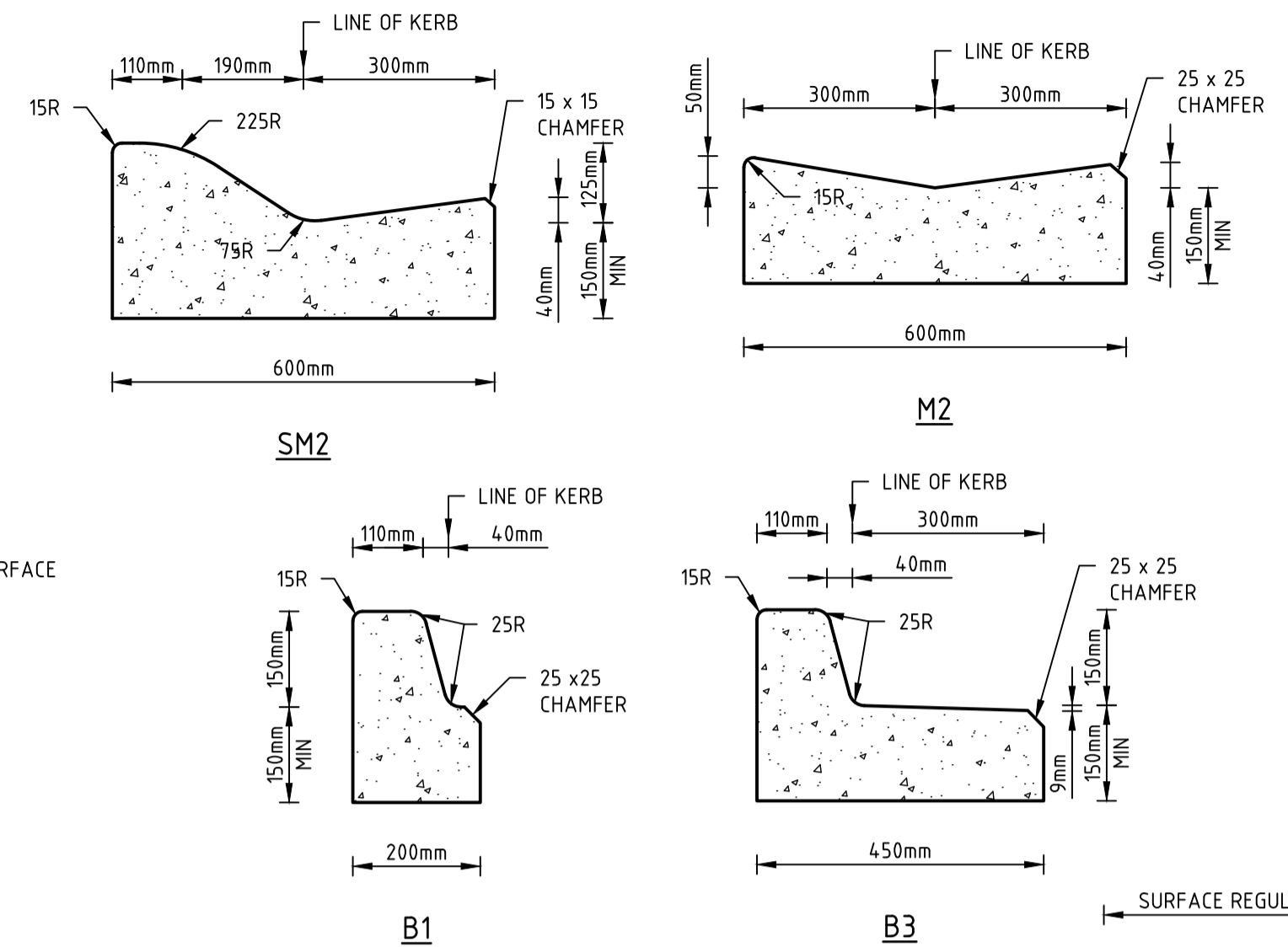
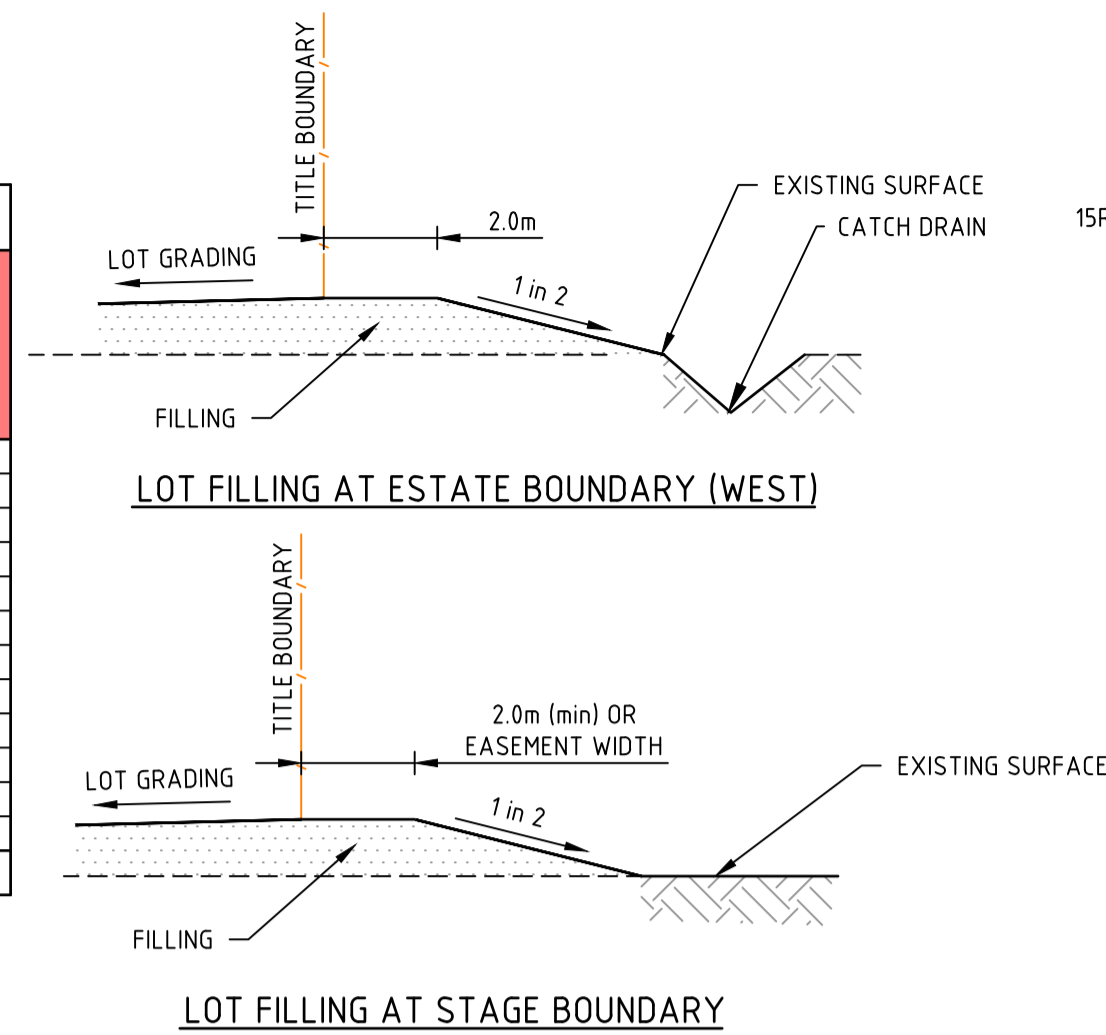
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)		
		TYPE 2* (ACCESS STREET Level 1)	TYPE 3* (ACCESS STREET Level 2)	TYPE 4* (CONNECTOR STREET; PROFILE 2)
ASPHALT WEARING COURSE	VICROADS SIZE 10 TYPE N CLASS C320 BINDER	30	-	-
ASPHALT INTERMEDIATE COURSE	VICROADS SIZE 14 TYPE N CLASS C320 BINDER	-	40	40
ASPHALT BASE COURSE	VICROADS SIZE 20 TYPE SI	-	-	75
	VICROADS SIZE 10 TYPE N CLASS C320 BINDER	30	-	-
	VICROADS SIZE 14 TYPE N CLASS C320 BINDER	-	40	-
	VICROADS SIZE 20 TYPE SI	-	-	75
BITUMINOUS PRIME BASE	NOMINAL	NOMINAL	NOMINAL	NOMINAL
	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	130	110	-
UPPER SUBBASE	VICROADS 20mm CLASS 3 CRUSHED ROCK OR BETTER, 20mm CLASS CC3 CRUSHED CONCRETE OR BETTER	100	100	100
LOWER SUBBASE	VICROADS 20mm CLASS 4 CRUSHED ROCK OR BETTER, 20mm CLASS CC4 CRUSHED CONCRETE OR BETTER	250	290	100
SUBGRADE	SILTY CLAY WITH DESIGN CBR OF 2.5%	-	-	-
TOTAL PAVEMENT DEPTH		540	580	390

* REFER PAVEMENT PLAN FOR LOCATION OF PAVEMENT TYPES

ROAD NAME	TYPE
HANSEL AVENUE	TYPE 3
CHARMING LOOP	TYPE 2
TUPY WAY	TYPE 2
STEPHENS ROAD	TYPE 4

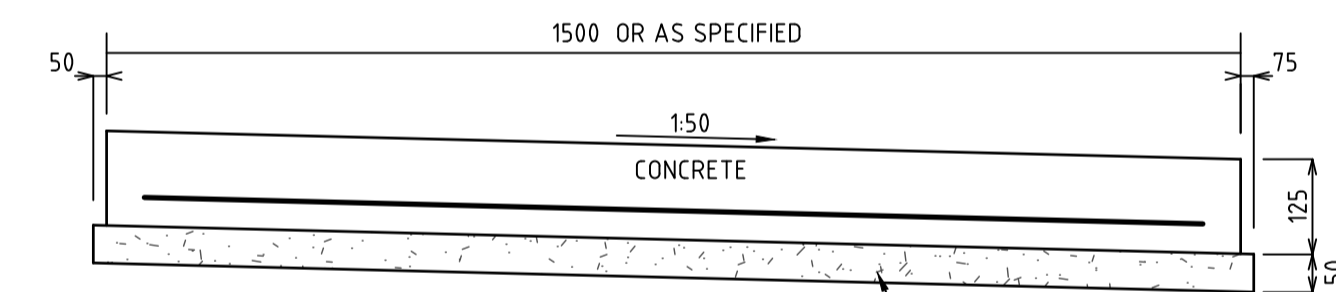
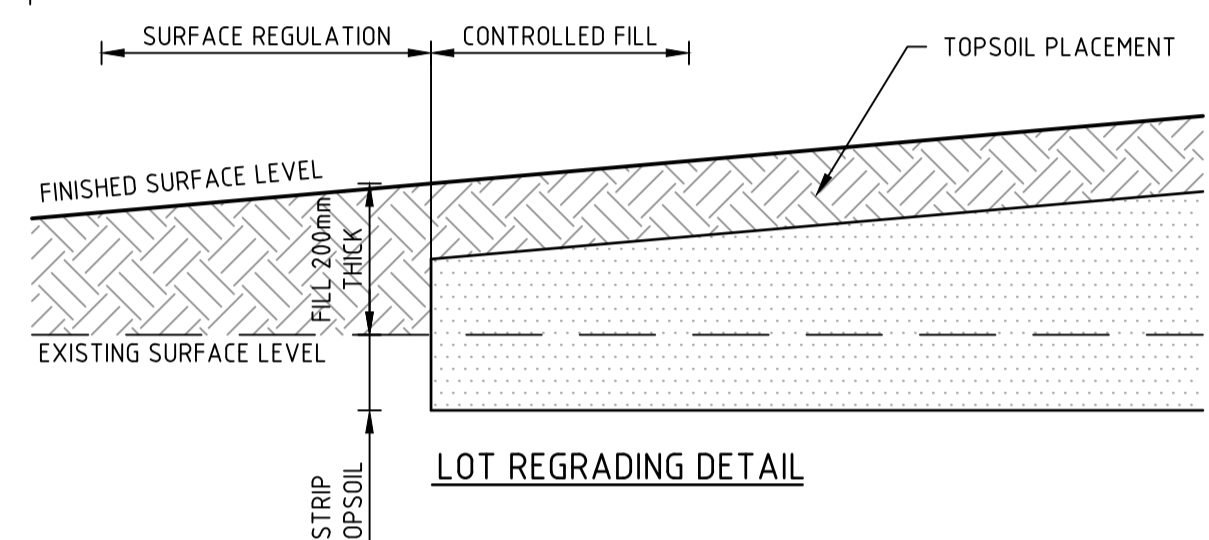
GENERAL NOTES:

- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS, EDM AND/OR VICROADS STANDARDS TO THE SATISFACTION OF COUNCIL.
- 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.



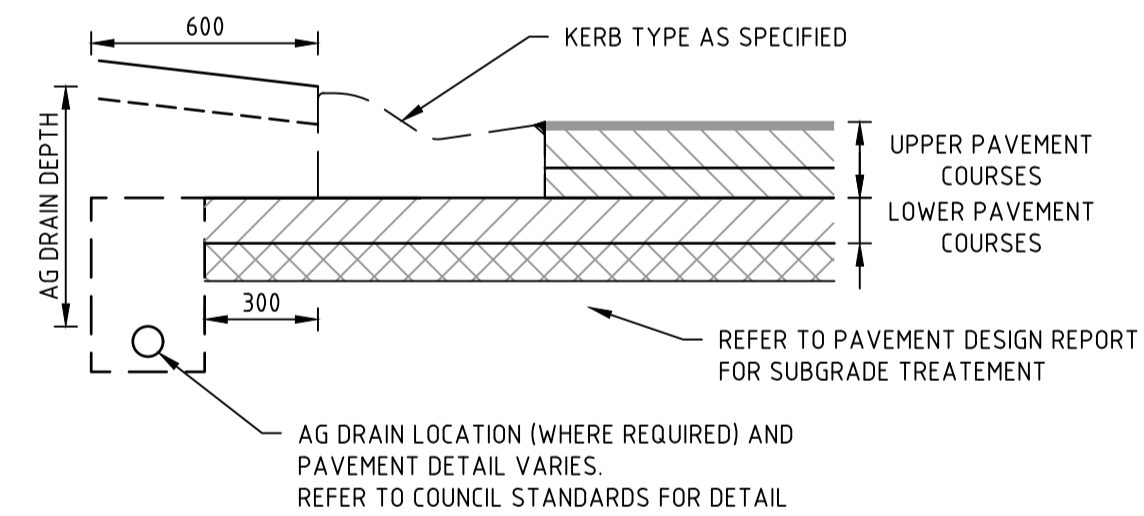
STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDM 301
 H 1:100 SCALE @ A1

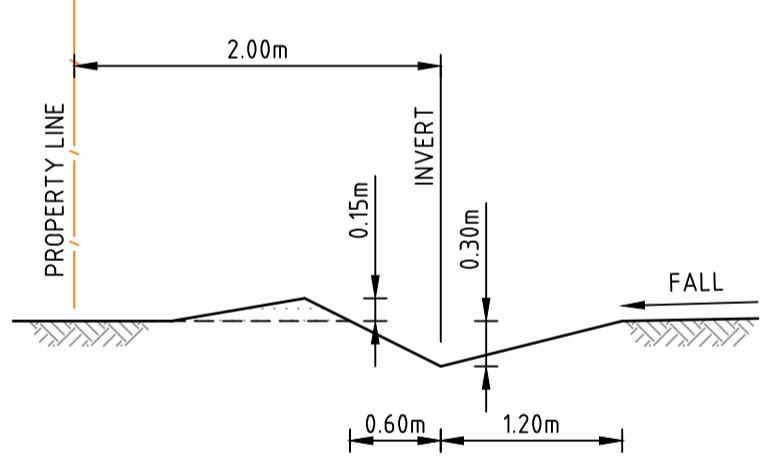


FOOTPATH / SHARED PATH

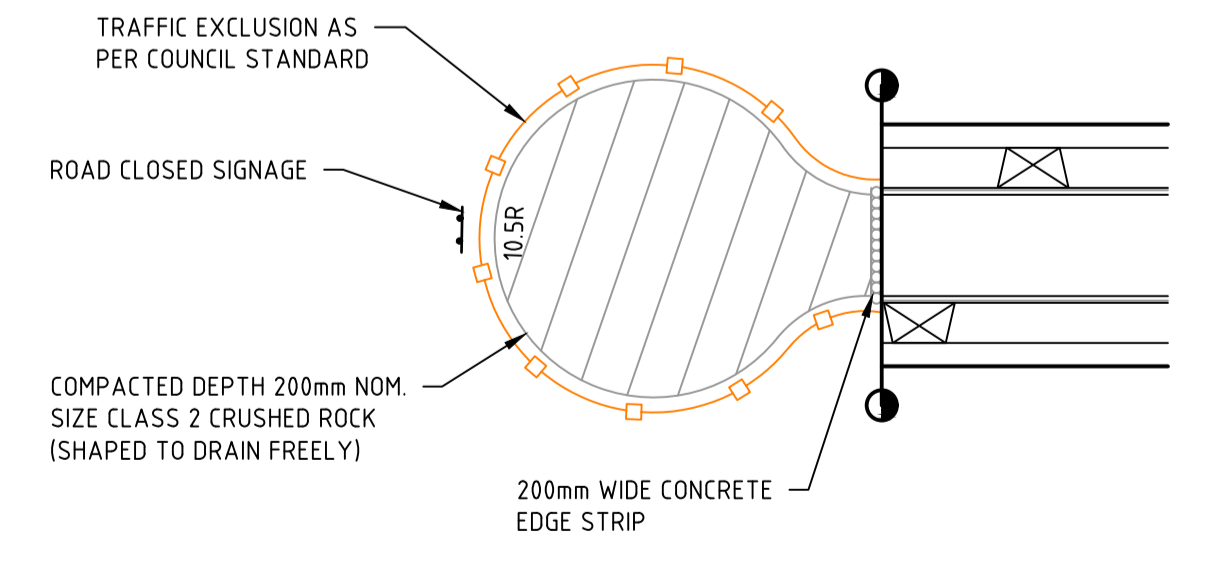
FOOTPATH TO BE 25MPa FOR RESIDENTIAL AND 32MPa FOR COMMERCIAL/INDUSTRIAL. EXPANSION JOINTS TO BE CONSTRUCTED AT 12m MAX. CTRS. AND AT BOTH SIDES OF VEHICLE CROSSINGS. 50mm COMPACTED DEPTH OF CLASS 3, 20mm NOM. SIZE FINE CRUSHED ROCK.



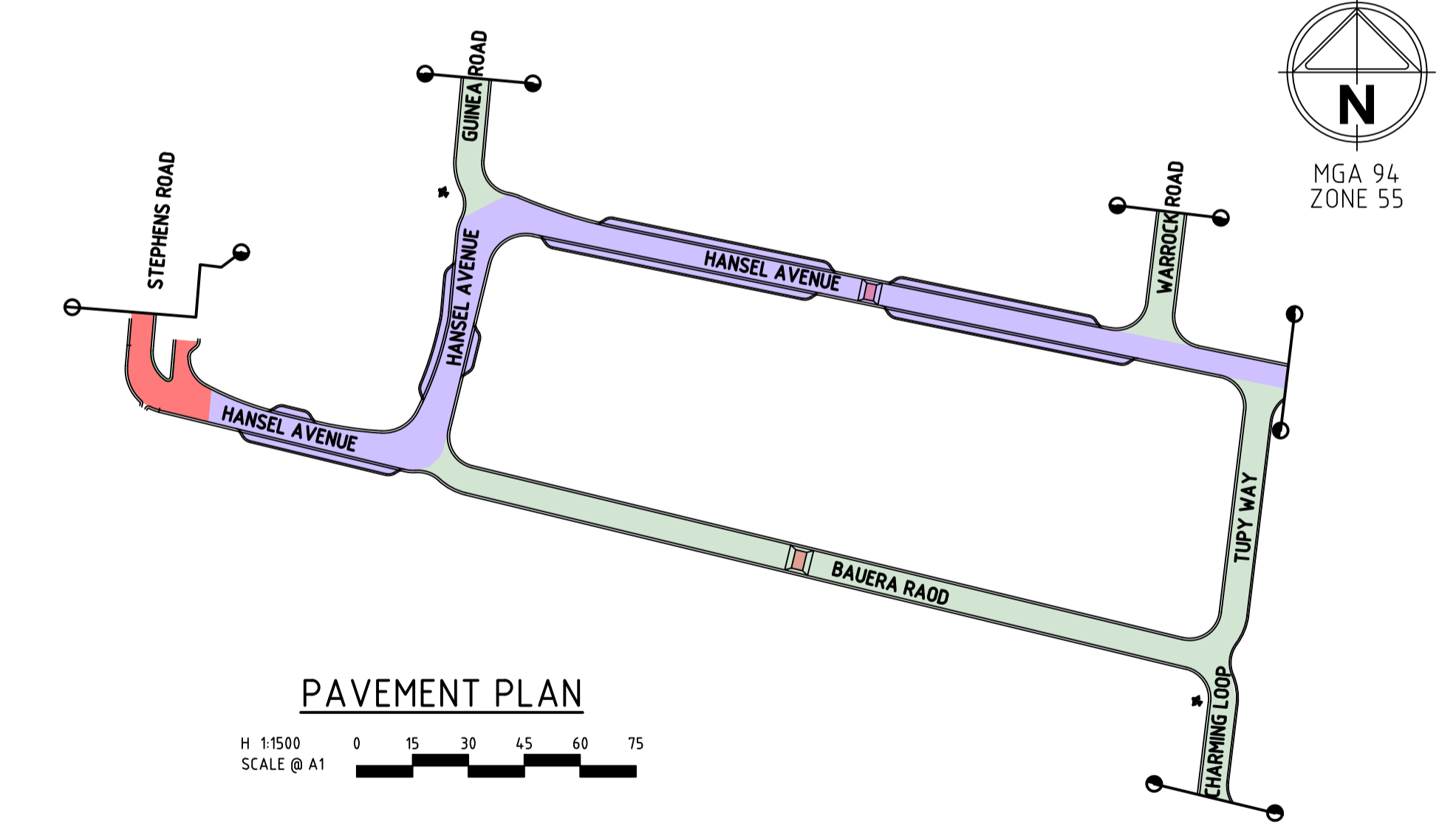
TYPICAL SUBSURFACE DRAIN DETAIL FOR NON-EXPANSIVE SUBGRADE
 REFER TO AUTHORITY REQUIREMENTS FOR SPECIFIC DETAILS



TYPICAL CATCH DRAIN SECTION



TEMPORARY TURNING AREA DETAIL



PAVEMENT PLAN
 H 1:1500 SCALE @ A1

PAVEMENT DETAILS

THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY P/L WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY P/L.
 THE DESIGN HAS BEEN EXTRACTED FROM THE OFFICER CENTRAL "LOT 1 RIX ROAD", OFFICER REPORT ON "754-MELJGE292541AB" 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 P/L AND COPIED TO SPIIRE.

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Rev	Amendments	Approved	Date
D	OPEN DRAIN TYPICAL DETAIL	B.W.	26/09/2023
C	UPDATED PAVEMENT TABLE AND GENERAL NOTE	B.W.	08/09/2023
B	FUNCTIONAL DESIGN CHANGES	B.W.	28/07/2023
A	PRELIMINARY ISSUE	B.W.	01/05/2023



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**OFFICER CENTRAL
 STAGE 7
 ROAD AND DRAINAGE
 PAVEMENT AND TYPICAL DETAILS**
 CARDINIA SHIRE
 YOURLAND PTY LTD

PRELIMINARY Drg No: 310306CR700 Rev: D

