

GENERAL NOTES

1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS, SPECIFICATIONS AND TO THE SATISFACTION OF SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
2. COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
3. ALL LEVELS SHOWN ARE TO AHD.
4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH & SAFETY ACT 2004, INCLUDING ALL RELEVANT REGULATIONS, HAVE BEEN ADDRESSED. IN PARTICULAR, PREVENTION OF FALLS AND PLANT. DETAILS OF THE CONTRACTORS SITE MANAGEMENT PLAN INCLUDING OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE COUNCIL PRIOR TO COMMENCEMENT OF WORKS.
5. ON COMMENCEMENT OF CONSTRUCTION WORKS ON SITE, THE CONTRACTOR MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275).  
APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
6. NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 50M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
7. A TEMPORARY 1.8m CONSTRUCTION HIGH POST & WIRE FENCE SHALL BE ERECTED AND MAINTAINED AROUND EXISTING TREES, NOMINATED TO BE RETAINED AS PER A TREE PROTECTION ZONE (TPZ) CONDITION, AT ALL TIMES DURING CONSTRUCTION. UNDER NO CIRCUMSTANCES SHALL SITE SHEDS, VEHICLES, MACHINERY AND EQUIPMENT BE STORED OR PLACED WITHIN FENCED ZONE OF THESE TREES.
8. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE CONSULTING ENGINEER AND SUPERINTENDENT REPRESENTATIVE PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
9. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CARRYING OUT A DBYD AND CONTACTING ALL RELEVANT SERVICE AUTHORITIES AND/OR THEIR AGENTS, ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
10. SERVICE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED AS SPECIFIED BELOW, TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:  
i. SERVICE TRENCHES BENEATH THE ROAD PAVEMENT, FOOTPATH OR DRIVEWAY CROSSOVER, TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER BEDDING WITH 20MM CLASS 3 FCR WITH 3% CEMENT ADDITIVE.  
ii. DRAINAGE PIPES ADJACENT TO KERB OR CONCRETE STRUCTURES WITH 20MM CLASS 4 FCR TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM THE NEAR LOWER EDGE OF SUCH STRUCTURE, OTHERWISE TO FULL DEPTH.
12. ALL EXCAVATIONS OF A DEPTH 15M OR GREATER MUST COMPLY WITH WORKCOVER VICTORIA. A "NOTICE OF INTENTION TO EXCAVATE..." FORM MUST BE SUBMITTED TO WORKCOVER 3 DAYS PRIOR TO THE WORK EXCAVATIONS.  
• CALL 1800 136 089 TOLL FREE OR 031 9641 1444 TO OBTAIN FORM.  
• FAX FORM/S TO: 03) 9565 9400 OR 9941 0555.
13. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
14. ALL DRAINAGE PIPES ARE TO BE REINFORCED CONCRETE CLASS 2 RUBBER RING JOINTED AS A MINIMUM UNLESS OTHERWISE APPROVED. ALL PVC PIPES TO BE CLASS SH UNLESS OTHERWISE APPROVED.
15. 90mm DIA. AGRICULTURAL PIPE DRAINS TO BE PLACED BEHIND ALL KERB AND CHANNEL ON 20MM AGGREGATE BEDDING, 200MM BELOW SUBGRADE, AT GRADE AND WHERE DIRECTED BY THE CONSULTING ENGINEER.
16. MINIMUM COVER TO OBVERT OF DRAINAGE PIPES SHALL BE 300MM IN EASEMENTS AND 500MM IN ROAD RESERVES, EXCEPT WHERE PIPE CLASS '4' WILL BE INSTALLED.
17. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED USING APPROVED CLAY FILL AND THEN TOPSOIL REPLACED TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150MM LAYERS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 3798-2007. GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS. ON COMPLETION AND AT THE DIRECTION OF COUNCIL OFFICER THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED. IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
18. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
19. BATTERS SHALL BE 1 IN 6 MINIMUM UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL.
20. ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH AS SPECIFIED IN THE TYPICAL SECTION.
21. OPEN SPACE RESERVES:  
• RESERVES TO BE EVENLY GRADED, SEEDED AND FREE DRAINING TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.  
• DESIGN INFORMATION TO INCLUDE RETICULATED WATER SUPPLY IN U/G PIT CONFIGURATION, BOLLARDS, SEATING, PLAYGROUND EQUIPMENT AND BBQ'S ETC. WHERE REQUIRED BY THE PERMIT.
22. ALL NATURE STRIPS, EXCAVATED OR FILLED AREAS WITHIN THE ROAD RESERVE SHALL BE RESURFACED WITH A 100MM LAYER OF TOPSOIL AS SPECIFIED, FREE FROM CLAY AND STONE, EVENLY GRADED AND SEEDED TO THE SATISFACTION OF RESPONSIBLE AUTHORITY.
23. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF ALL BUILDING WASTE, RUBBISH AND SPOIL FROM THE SITE. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS IS TO BE BURNT ON SITE.
24. AS-CONSTRUCTED DATA INCLUDING ALTERATIONS DURING CONSTRUCTION ARE TO BE PROVIDED PRIOR TO ISSUE OF STATEMENT OF COMPLIANCE:  
• DRAWINGS ARE TO BE IN A1 AND A3 HARDCOPY AND IN AUTOCAD (2010) AND ACROBAT PDF FORMATS.
25. CCTV FOOTAGE OF ALL UNDERGROUND DRAINS TO BE CARRIED OUT AND PROVIDED TO COUNCIL PRIOR TO THE ISSUE OF PRACTICAL COMPLETION.

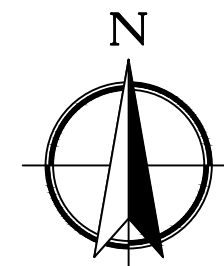
SUPERINTENDENT HOLD POINTS

26. THE FOLLOWING HOLD POINT INSPECTIONS SHALL APPLY UNTIL WORKS ARE APPROVED BY SUPERINTENDENT.  
CONSULTING ENGINEER/S TO BE PRESENT AT THESE HOLD POINTS;  
1) PRE-COMMENCEMENT OF WORKS SITE MEETING.  
2) SUBGRADE PROOF-ROLL PRIOR TO PLACEMENT OF SUB-BASE.  
3) SUB-BASE PROOF-ROLL PRIOR TO PLACEMENT OF BASE COURSE AND TEST RESULTS.  
4) BASE COURSE PROOF-ROLL PRIOR TO SEALING AND TEST RESULTS.  
5) WHEN GEOTEXTILE LAYER IS LAID;  
6) PRIOR TO TRENCH BACKFILLING;  
• STORM WATER DRAINAGE, INCLUDING SUBSOIL AG DRAINS, AND  
• PROPERTY CONNECTIONS.  
7) FOOTPATH, DRIVEWAY AND KERB AND CHANNEL PRIOR TO PLACEMENT OF CONCRETE.  
7) INSPECTION AT PRACTICAL COMPLETION OF THE WORKS (COMMENCEMENT OF DEFECTS LIABILITY PERIOD).  
8) 2ND INSPECTION AT THE END OF 12 MONTHS (END OF DEFECTS LIABILITY PERIOD).

SITE MANAGEMENT NOTES

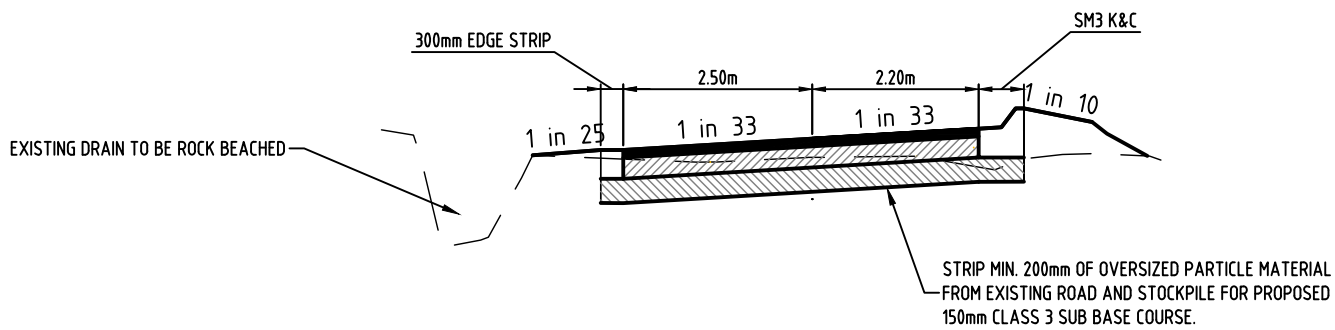
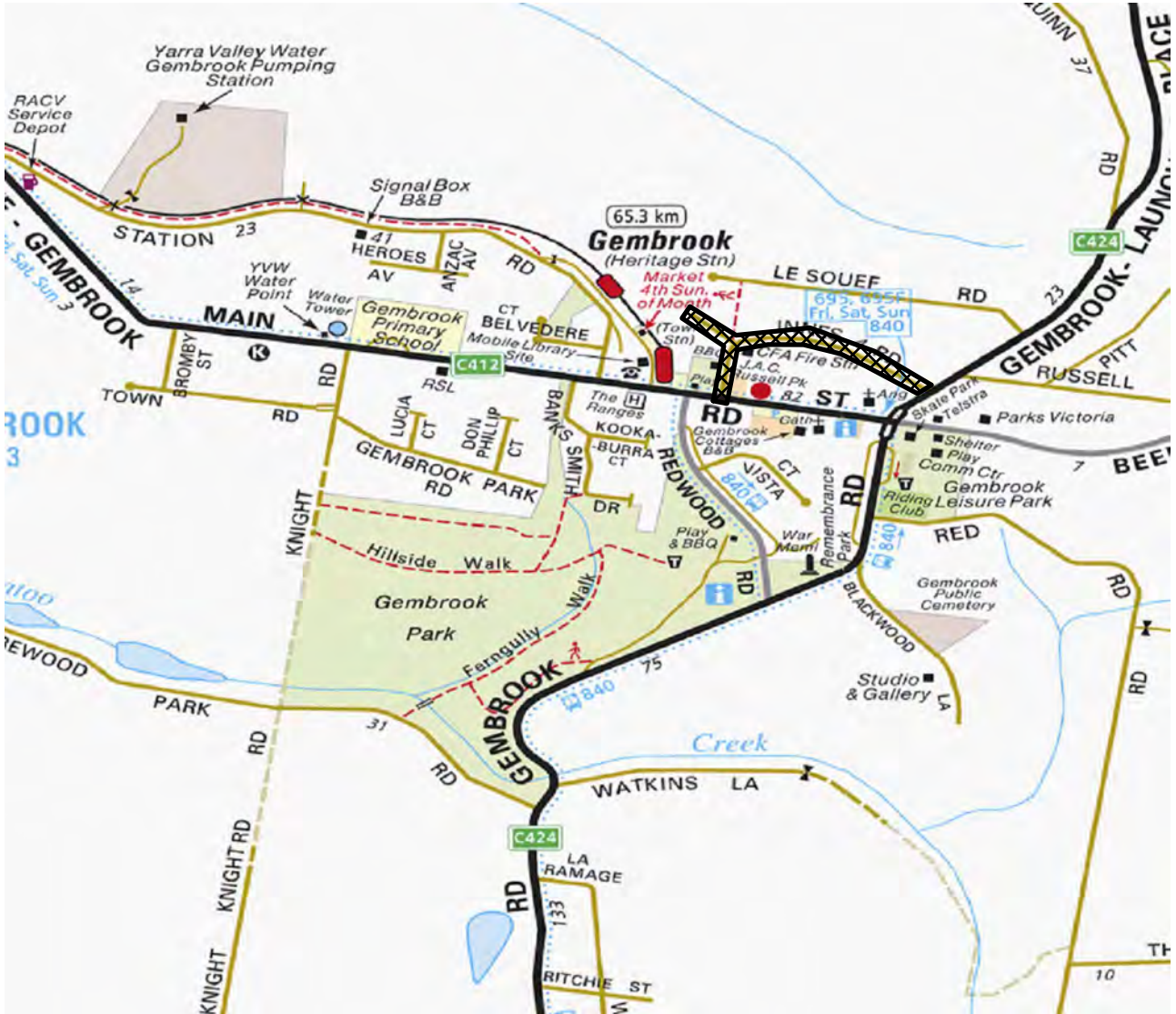
1. ROAD SURFACES ON WHICH CONSTRUCTION VEHICLES TRAVEL SHALL BE KEPT FREE OF TRANSPORTED MATERIAL. ANY CLAY, SOIL OR OTHER DEBRIS DEPOSITED ON EXISTING ROADS MUST BE CLEANED OFF IMMEDIATELY TO AVOID IT ENTERING DRAINAGE SYSTEMS AND TO MINIMIZE TRAFFIC HAZARDS.
2. STORMWATER FLOWING ONTO THE SITE SHALL BE CONTROLLED BY CUT OFF DRAINS TO PREVENT IT FROM FLOWING ONTO AREAS STRIPPED OF GRASS COVER. THESE DRAINS SHALL BE DIRECTED TO THE STORM WATER AT APPROPRIATE POINTS.
3. STORMWATER FALLING ON THE SITE SHALL NOT TO BE PERMITTED TO ENTER THE EXISTING DRAINAGE SYSTEM IF CARRYING SUSPENDED SOLIDS PICKED UP FROM THE SITE. STRAW BALES UPSTREAM OF DISCHARGE POINTS SHALL BE USED TO FILTER FLOW, OR FILTER BASKETS IN SIDE ENTRY PITS OR OTHER CONTROLS MAY BE USED FILTER SYSTEMS SHALL BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE WORKS.
4. SILT FENCES TO BE ERECTED AROUND ANY STOCK PILES OF SOIL/CLAY AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO PREVENT ANY SILT LADEN RUN OFF ENTERING STORM WATER DRAINS.
5. DUST GENERATION BY EITHER MOVING PLANT OR WIND SHALL BE CONTROLLED BY APPLICATION OF WATER AT TIMES WHEN GENERATION IN QUALITY IS LIKELY, A WATER CART SHALL BE MAINTAINED ON THE SITE FOR IMMEDIATE USE.
6. NOISE POLLUTION IN AREAS WHERE OCCUPIED LAND IS IN CLOSE PROXIMITY SHALL BE KEPT TO A MINIMUM COMPATIBLE WITH THE OPERATIONS INVOLVED, AND MOST LIKELY TO BE OFFENSIVE SHALL ONLY BE GENERATED BETWEEN THOSE HOURS SPECIFIED BY THE MUNICIPAL COUNCIL AS TIMES WHEN CONSTRUCTION MACHINERY MAY OPERATE.
7. VEGETATION REMOVAL BOTH GRASS COVER AND OTHER VEGETATION, SHALL BE KEPT TO THE MINIMUM NECESSARY TO CARRY OUT THE WORKS, AND AREAS DENuded OF GRASS AND LIKELY TO ERODE SHALL BE TREATED TO RESTORE COVER AS EARLY AS POSSIBLE.
8. VIC. ROADS ROADWORK SIGNAGE CODE OF PRACTICE WHICH COMPLIES WITH AUSTRALIAN STANDARD 174.3-1996 ADHERED TO DURING CONSTRUCTION WORKS. SIGNAGE - ALL REGULATORY AND DIRECTIONAL CHEVRON TYPE SIGNS TO BE INSTALLED IN CLASS 1 REFLECTIVE MATERIAL IN ACCORDANCE WITH AUSTRALIAN STANDARDS.
9. A CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN SHALL BE PREPARED AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.

SHEET INDEX	
DRAWING	DESCRIPTION
CCD20022-01	FACE SHEET, NOTES, SHEET INDEX, LOCALITY PLAN
CCD20022-02	DETAIL LAYOUT PLAN SHEET 1
CCD20022-03	DETAIL LAYOUT PLAN SHEET 2
CCD20022-04	DETAIL LAYOUT PLAN SHEET 3
CCD20022-05	ROAD LONGITUDINAL SECTIONS
CCD20022-06	KERB A & B LIP LONGITUDINAL AND SETOUT
CCD20022-07	KERB C, D & F LIP LONGITUDINAL AND SETOUT
CCD20022-08	KERB E LIP LONGITUDINAL AND SETOUT
CCD20022-09	ROAD CROSS SECTIONS SHEET 1
CCD20022-10	ROAD CROSS SECTIONS SHEET 2
CCD20022-11	ROAD CROSS SECTIONS SHEET 3
CCD20022-12	ROAD CROSS SECTIONS SHEET 4
CCD20022-13	ROAD CROSS SECTIONS SHEET 5
CCD20022-14	DRAINAGE LONGITUDINAL SECTIONS SHEET 1
CCD20022-15	DRAINAGE LONGITUDINAL SECTIONS SHEET 2
CCD20022-16	SPEED CUSHION DETAIL PLAN



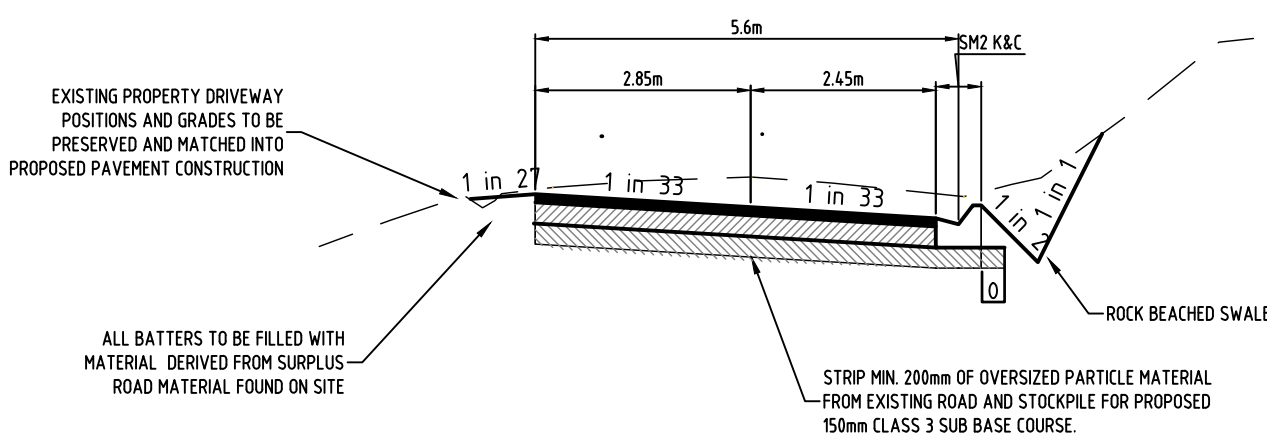
LOCALITY PLAN

NOT TO SCALE



TYPICAL ROAD SECTION – INNES RD (LANEWAY)

NOT TO SCALE



TYPICAL ROAD SECTION – INNES RD (5.5m)


NOT TO SCALE

TBM SCHEDULE

Reference	CO-ORDINATES				Description
	East	North	Elevation		
PM12	371940.93	5799049.79	318.54		Perm Survey Mark
STN1	371970.48	5799062.45	318.91		Rivet
STN2	371469.05	5798949.31	310.04		Nail in Stake
STN3	371686.64	5798803.82	311.67		Rivet
STN4	371840.41	5798809.61	312.77		Spike
STN5	371977.53	5798835.63	313.27		Spike
STN6	372190.17	5798795.75	313.66		Spike
STN7	372288.85	5798789.08	314.44		Nail in Stake
STN8	372188.36	5798709.32	325.91		Rivet
STN9	372690.56	5798575.38	308.65		Nail in Stake
STN10	372805.68	5798586.48	308.79		Spike
STN11	372973.30	5798483.34	313.94		Rivet
STN12	372924.65	5798412.25	319.51		Rivet



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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.	DATE	JULY 2020					SEALING OF THE DANDENONG RANGES INNES ROAD, GEMBROOK		SHEET - 1 OF 16
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS		CHECKED	SC	APPROVED	SC			REVISION - H		
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS		DATE	DEC 2020	DATE	DEC 2020			STATION ST TO GEMBROOK-LAUNCHING PLACE RD		CCD REF. NO. - 20022
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.	DATUM	AHD	MELWAYS REFERENCE	105A11			FACE SHEET		
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET									Dwg. Location: C:\120\Projects\20-022\20022-00 Revit.dwg Editor: arosman		
18.01.2023	H	COUNCIL AMENDMENTS												

Dwg. Location: C:\12\Projects\20-022\20022-00 RevH.dwg; Editor: arossman

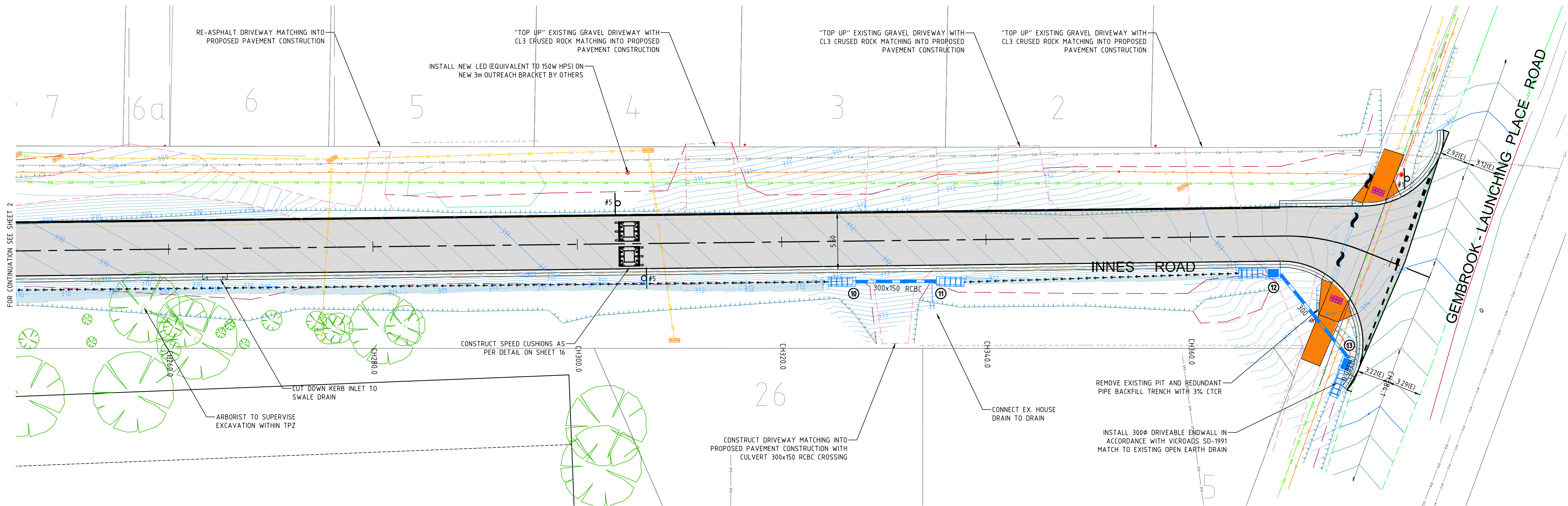




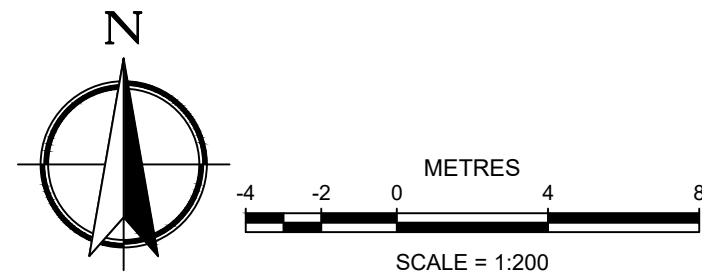
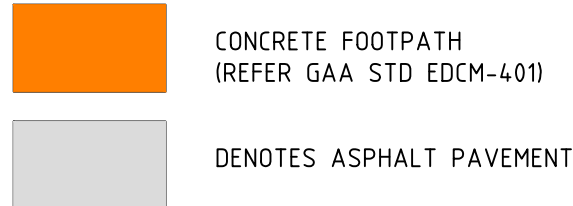
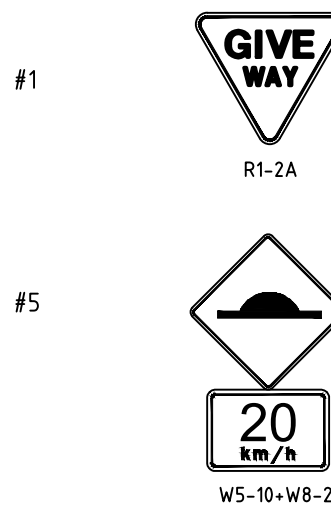









SIGN SCHEDULE

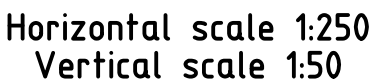
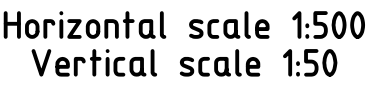



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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SHEET - 4 OF 16		REVISION - H	
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		CCD REF. NO. - 20022		A1	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020					
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11					
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET												
18.01.2023	H	COUNCIL AMENDMENTS													

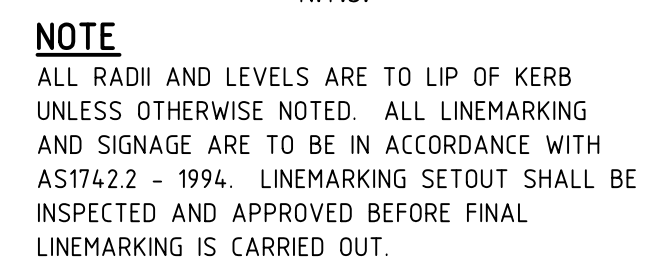
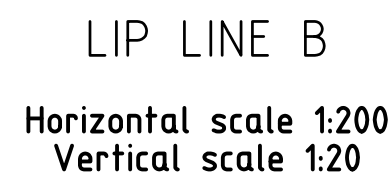
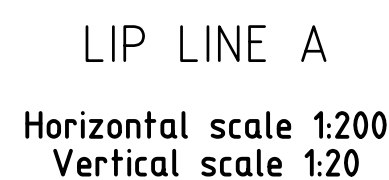
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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SEALING OF THE DANDENONG RANGES			SHEET - 5 OF 16
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK			REVISION - H
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020		STATION ST TO GEMBROOK-LAUNCHING PLACE RD			CCD REF. NO. - 20022
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11		ROAD LONGITUDINAL SECTIONS			A1
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET				CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245				P.O. BOX 1207, NARRE WARREN 3805 M: 081@craigcivil.com.au				PHONE: 5995 4388 FAX: 5995 5330
18.01.2023	H	COUNCIL AMENDMENTS												Dwg. Location: C:\20d\Projects\20-02\20022-05 Revit.dwg; Editor: arosmann	



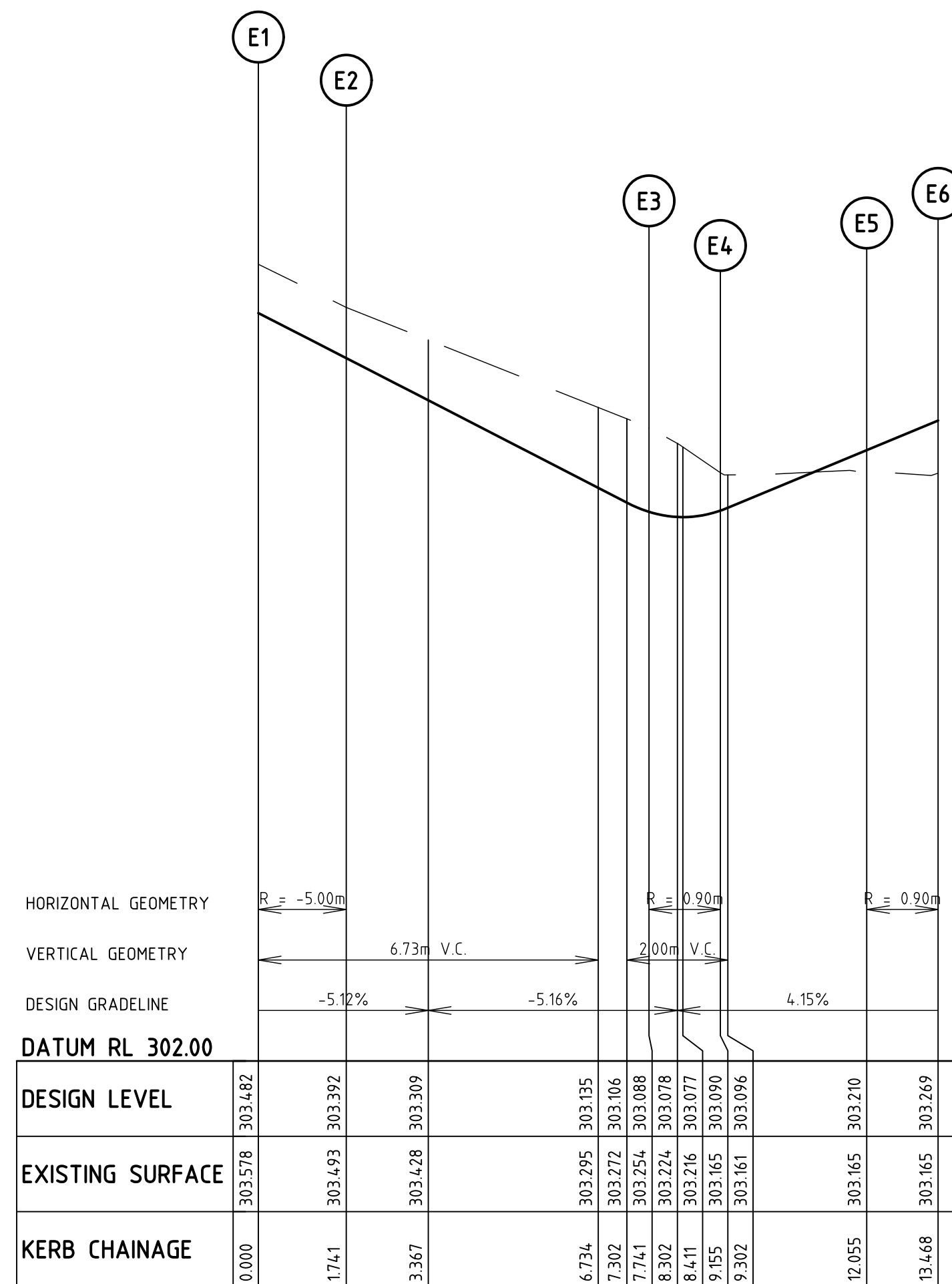


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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DATE	JULY 2020				SEALING OF THE DANDENONG RANGES INNES ROAD, GEMBROOK			SHEET - 6 OF 16	
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		STATION ST TO GEMBROOK-LAUNCHING PLACE RD			REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020		KERB A & B LIP LONGITUDINAL AND SETOUT			CCD REF. NO. - 20022	
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11					A1	
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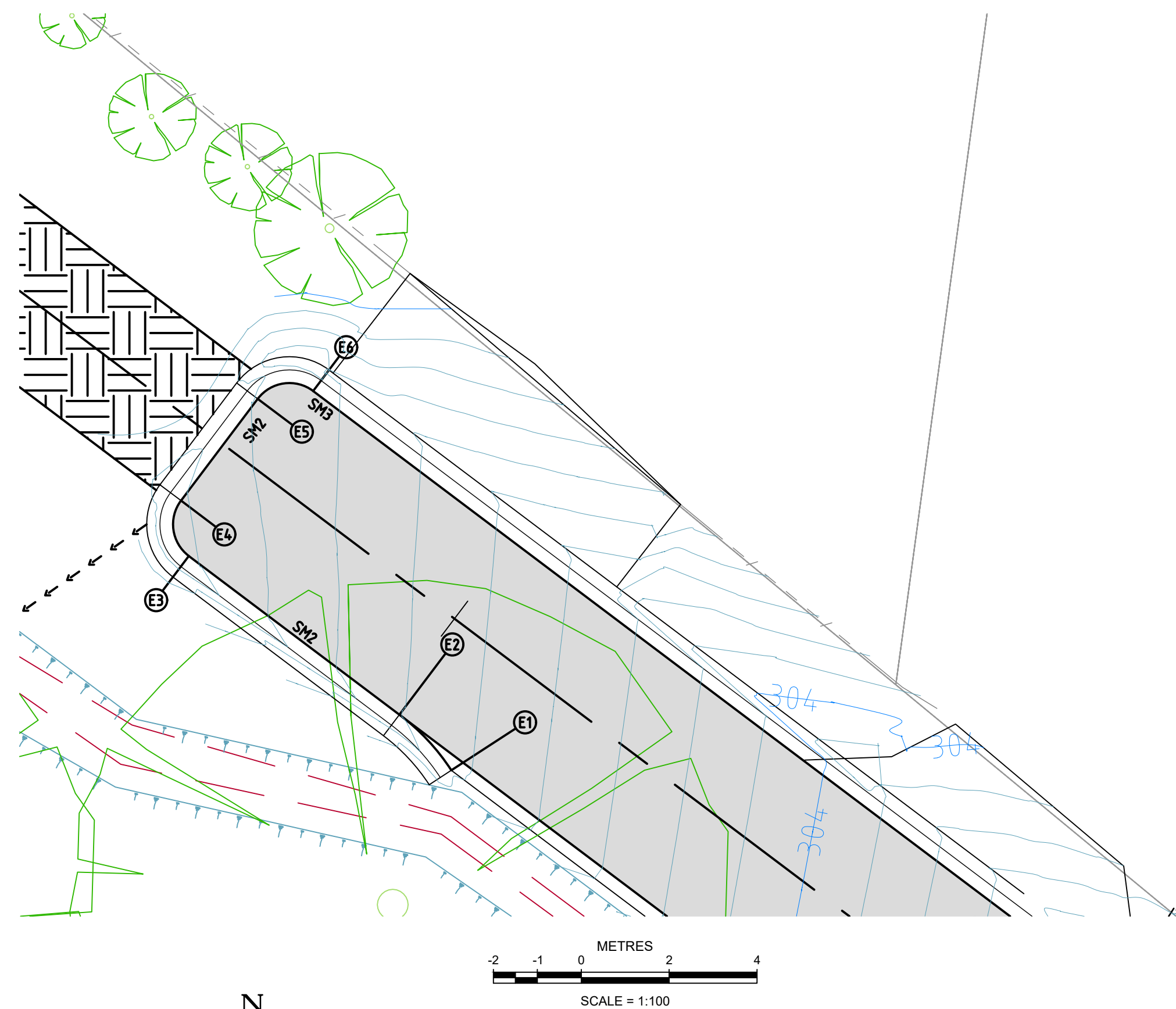


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07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.	CHECKED	SC		APPROVED	SC	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	EX. PROP.	DATE	DEC 2020		DATE	DEC 2020		CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245	
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.	DATUM	AHD		MELWAYS REFERENCE	105A11		P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au	PHONE: 5995 4388 FAX: 5995 5330
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	EX. PROP.				KERB C, D & F LIP LONGITUDINAL AND SETOUT			CCD REF. NO. - 20022	A1
18.01.2023	H	COUNCIL AMENDMENTS				Dwg. Location: C:\26\Projects\20-02\20022-06 Revit.dwg; Editor: arosmann							





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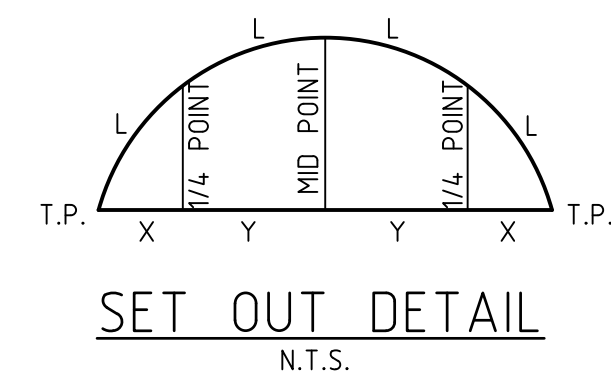


### CUL DE SAC DETAIL INNES ROAD (LANEWAY)

#### Alignment E

Point no	Easting	Northing	RL
E1	372632.468	5798608.474	303.482
E2	372631.287	5798609.740	303.392
E3	372626.495	5798613.352	303.088
E4	372626.318	5798614.612	303.090
E5	372628.064	5798616.928	303.210
E6	372629.324	5798617.105	303.269

Curve no	L	Radius	Arc	A	B	X	Y	l	Mid point RL
E1 - E2	19.948	5.000	1.741	0.076	0.057	0.435	0.431	0.435	303.437
E3 - E4	90.000	0.900	1.414	0.264	0.195	0.344	0.292	0.353	303.077
E5 - E6	90.000	0.900	1.414	0.264	0.195	0.344	0.292	0.353	303.239



### SET OUT DETAIL

N.T.S.

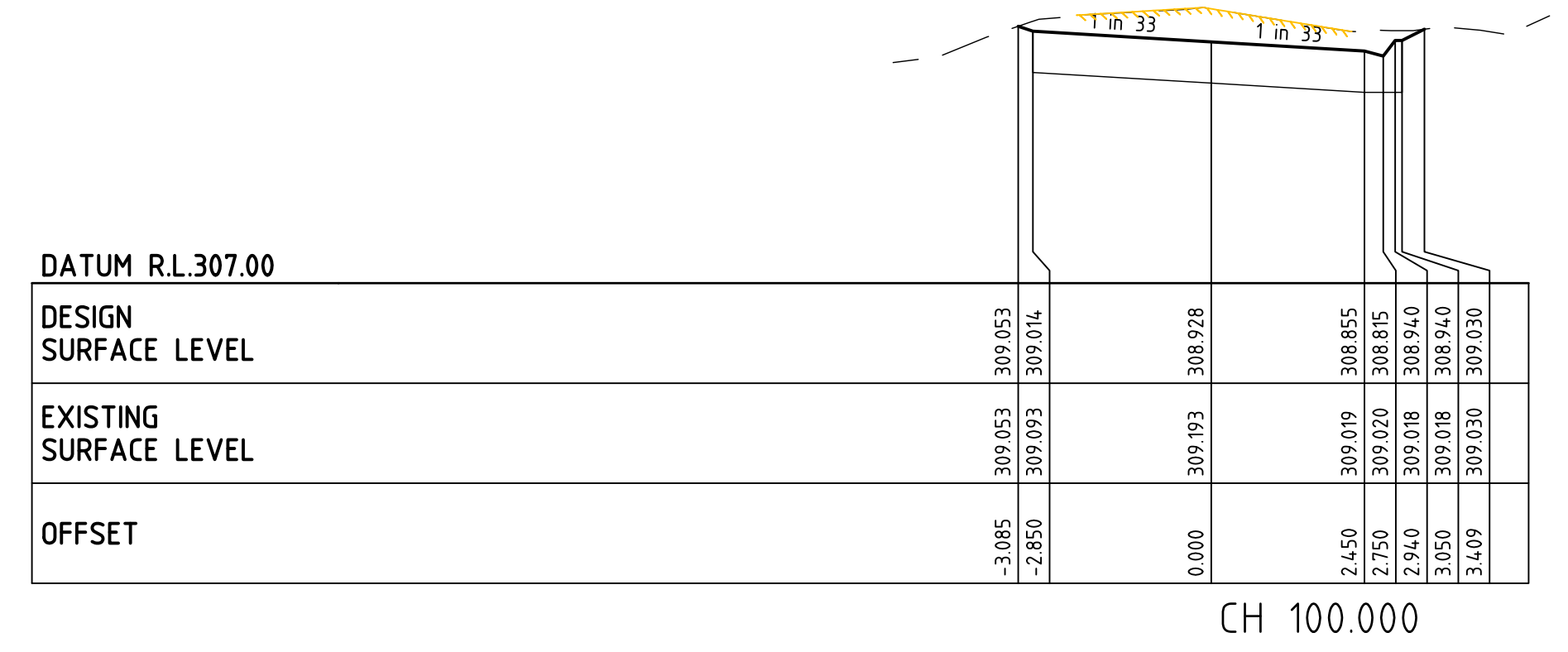
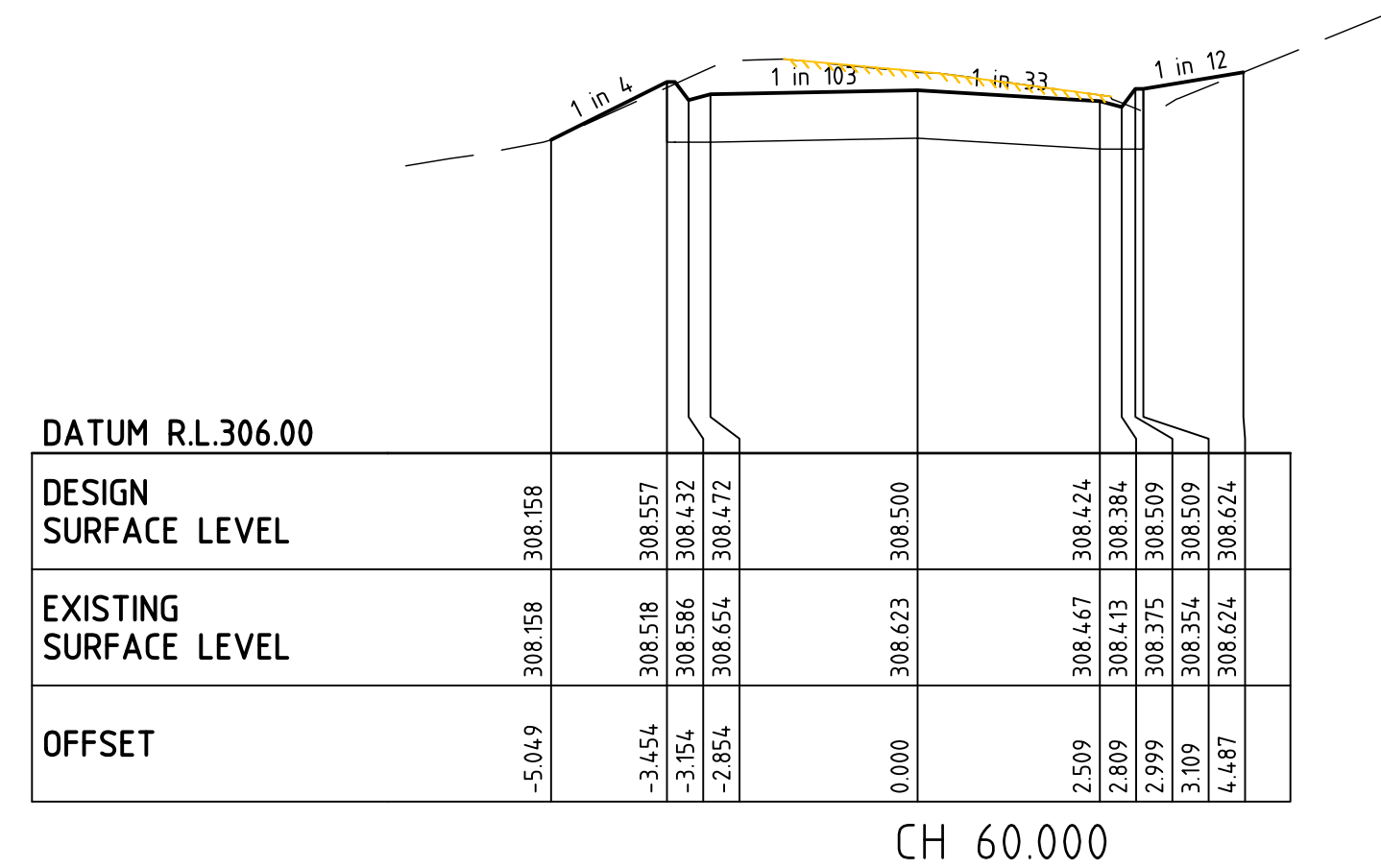
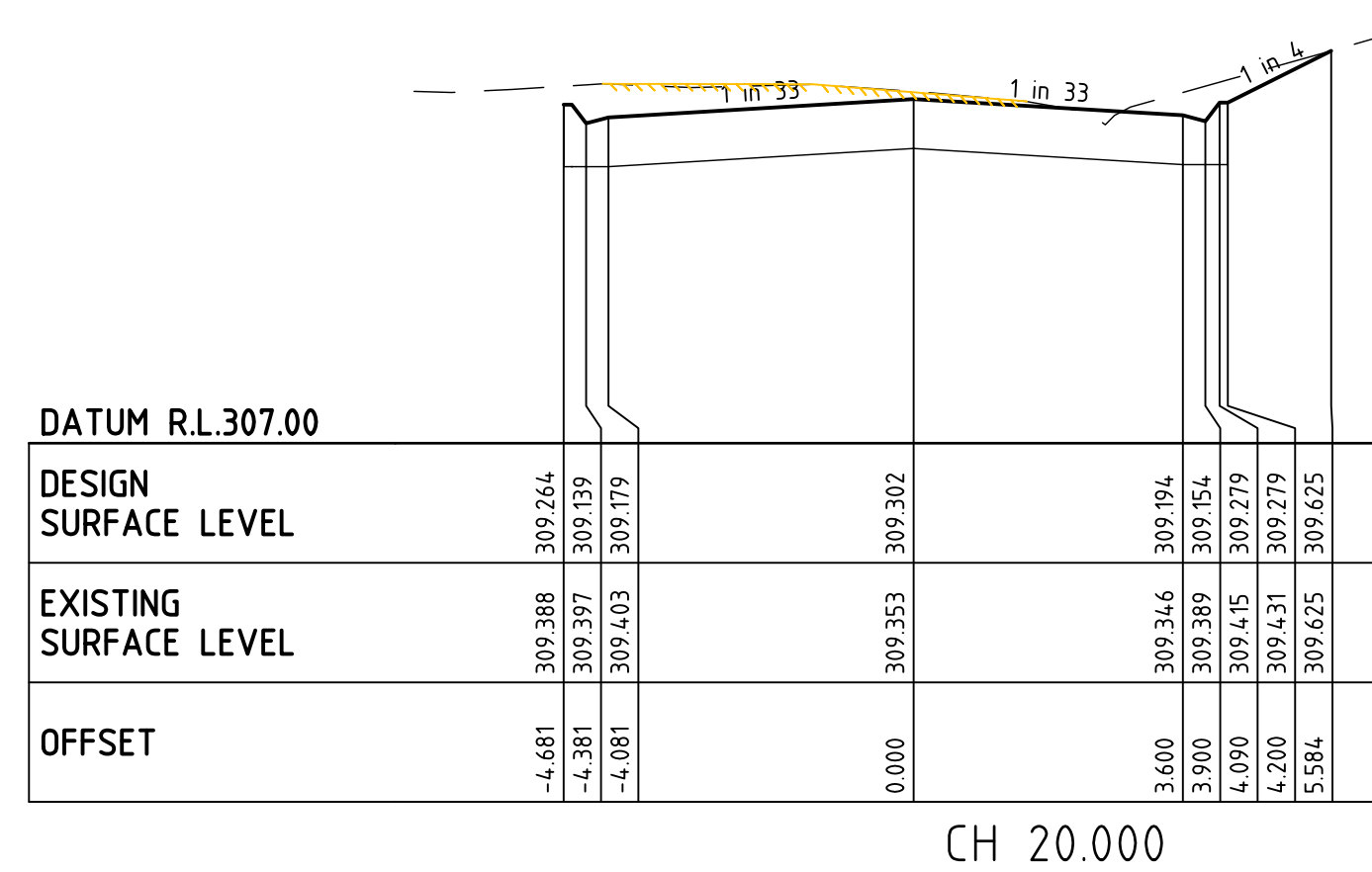
**NOTE**  
ALL RADII AND LEVELS ARE TO LIP OF KERB  
UNLESS OTHERWISE NOTED. ALL LINEMARKING  
AND SIGNAGE ARE TO BE IN ACCORDANCE WITH  
AS1742.2 - 1994. LINEMARKING SETOUT SHALL BE  
INSPECTED AND APPROVED BEFORE FINAL  
LINEMARKING IS CARRIED OUT.



**FINAL**  
ISSUED FOR CONSTRUCTION

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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.	LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DATE	JULY 2020	SCALE	AS SHOWN	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	SEALING OF THE DANDENONG RANGES	SHEET - 8 OF 16
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.	CIVIL. PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	CHECKED	SC	APPROVED	SC	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	INNES ROAD, GEMBROOK	REVISION - H
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	CCD REF. NO. - 20022
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	KERB E LIP LONGITUDINAL AND SETOUT	A1
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET		EX. PROP.						CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS		
18.01.2023	H	COUNCIL AMENDMENTS			EX. PROP.						CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS		


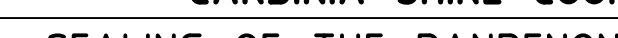




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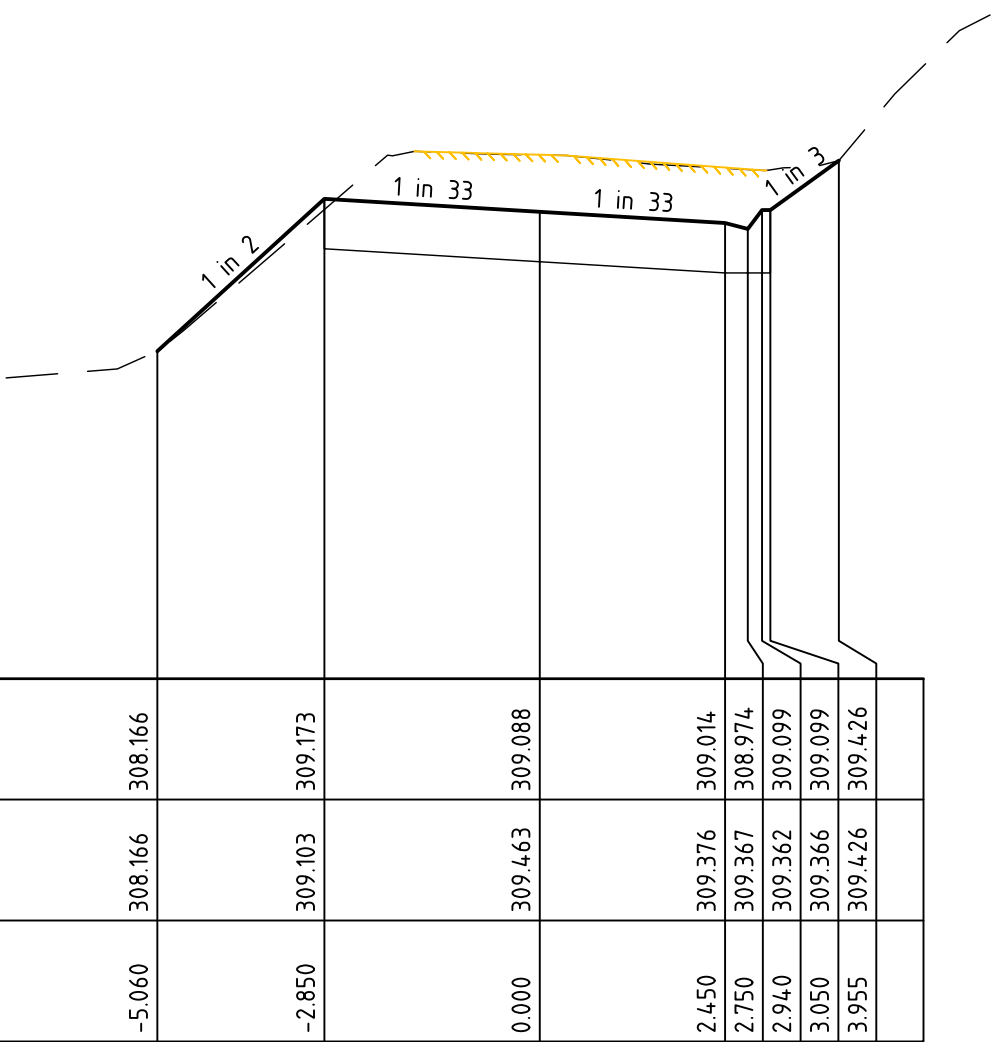
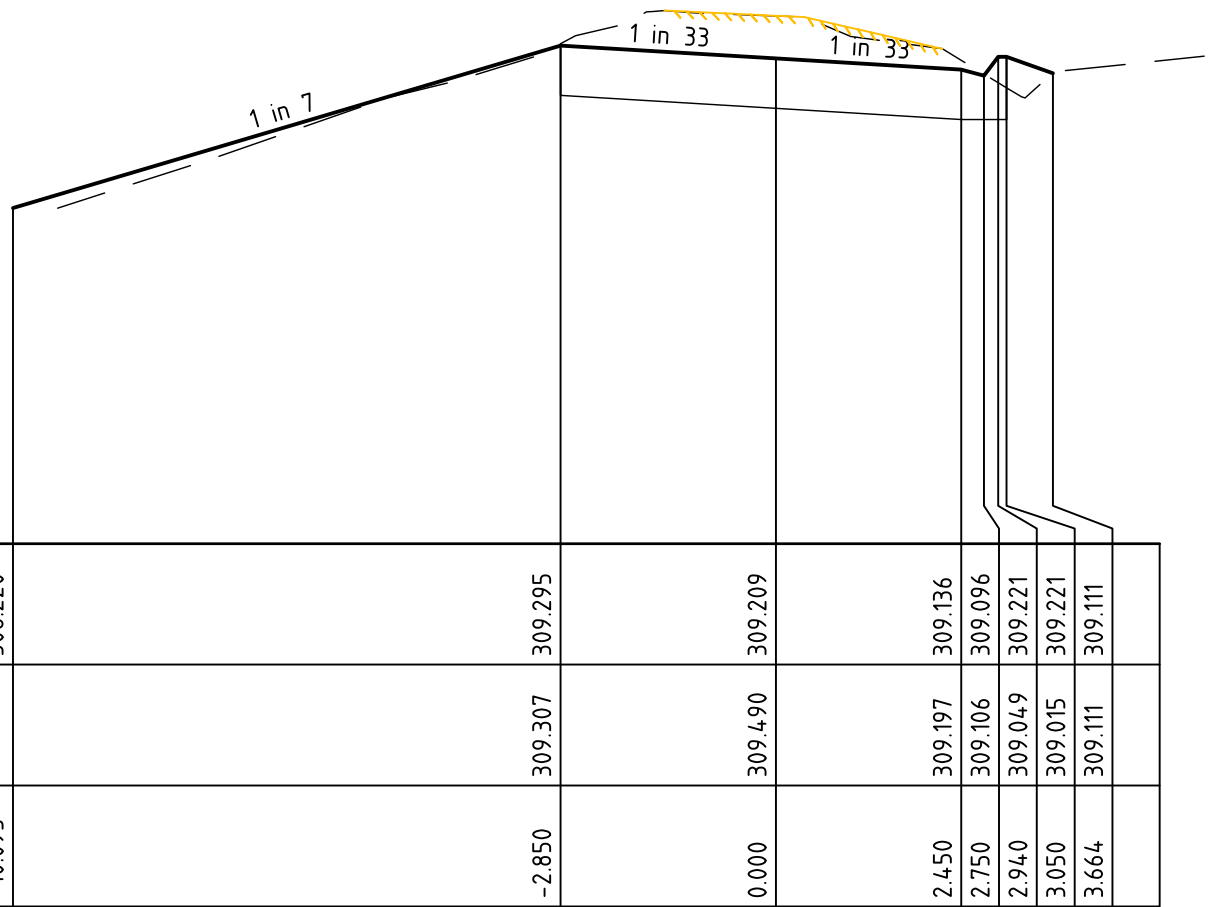
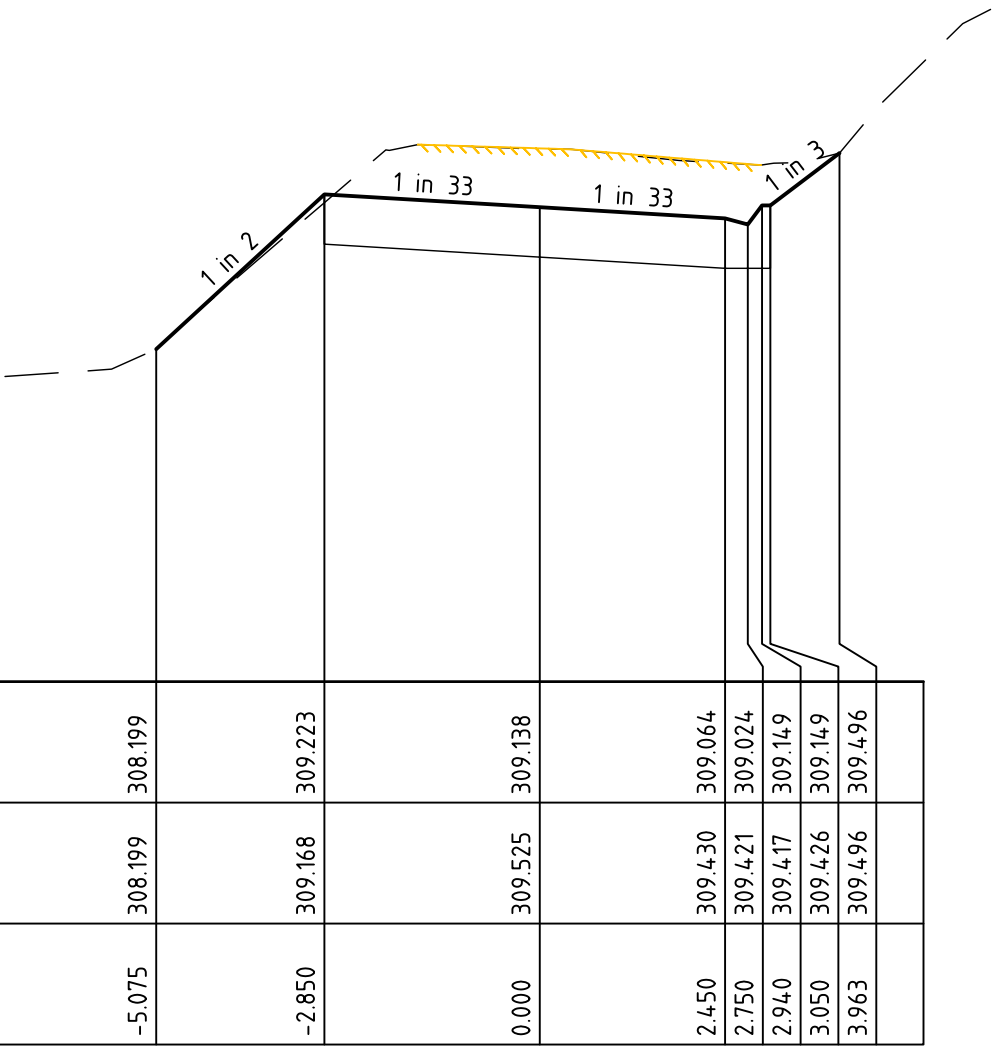
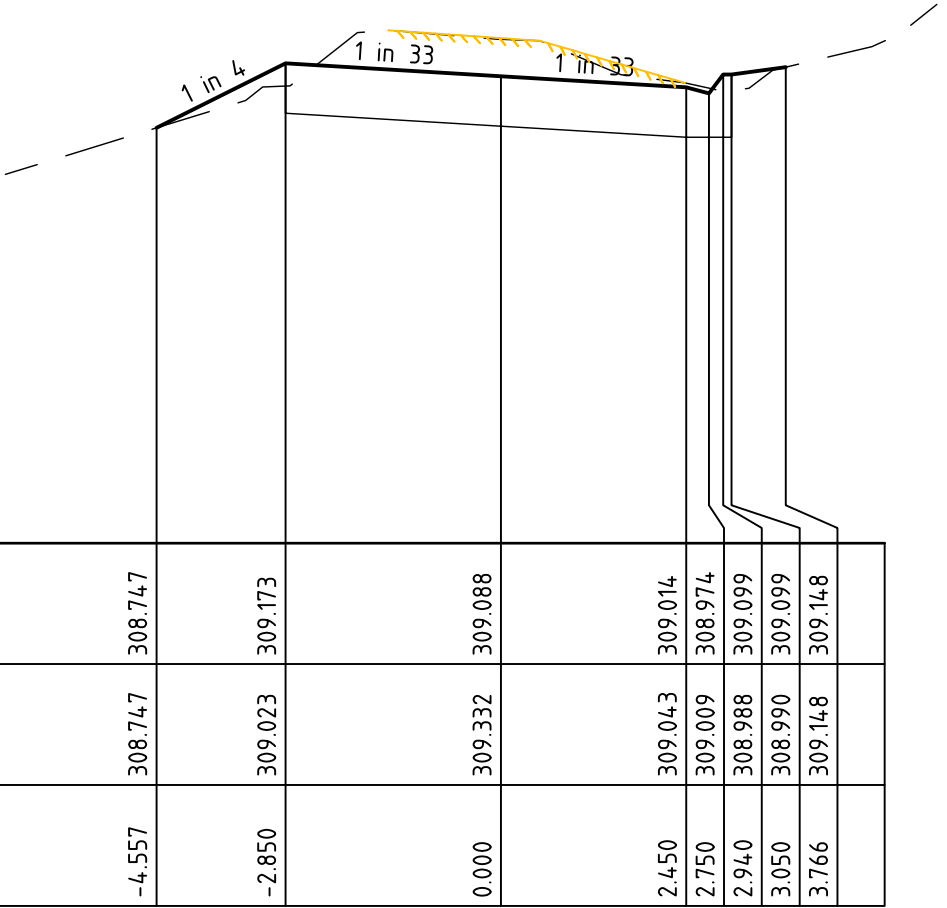
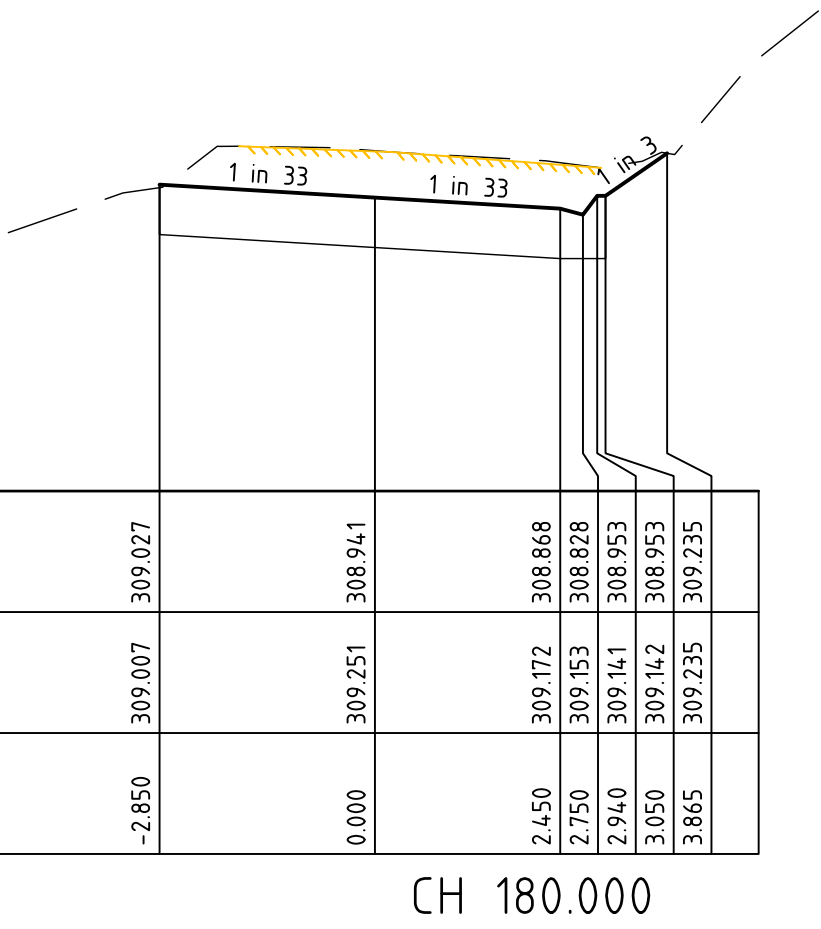


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ISSUED FOR CONSTRUCTION

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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP. - LAW, COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DATE	JULY 2020				SEALING OF THE DANDENONG RANGES INNES ROAD, GEMBROOK	SHEET - 9 OF 16		
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP. - DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	CHECKED	SC	APPROVED	SC			STATION ST TO GEMBROOK-LAUNCHING PLACE RD	REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP. - CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DATE	DEC 2020	DATE	DEC 2020			CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245	CCD REF. NO. - 20022	A1
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP. - CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DATUM	AHD	MELWAYS REFERENCE	10SA11			P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au	PHONE: 5995 4388 FAX: 5995 5330	ROAD CROSS SECTIONS - SHEET 1
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET											
18.01.2023	H	COUNCIL AMENDMENTS												

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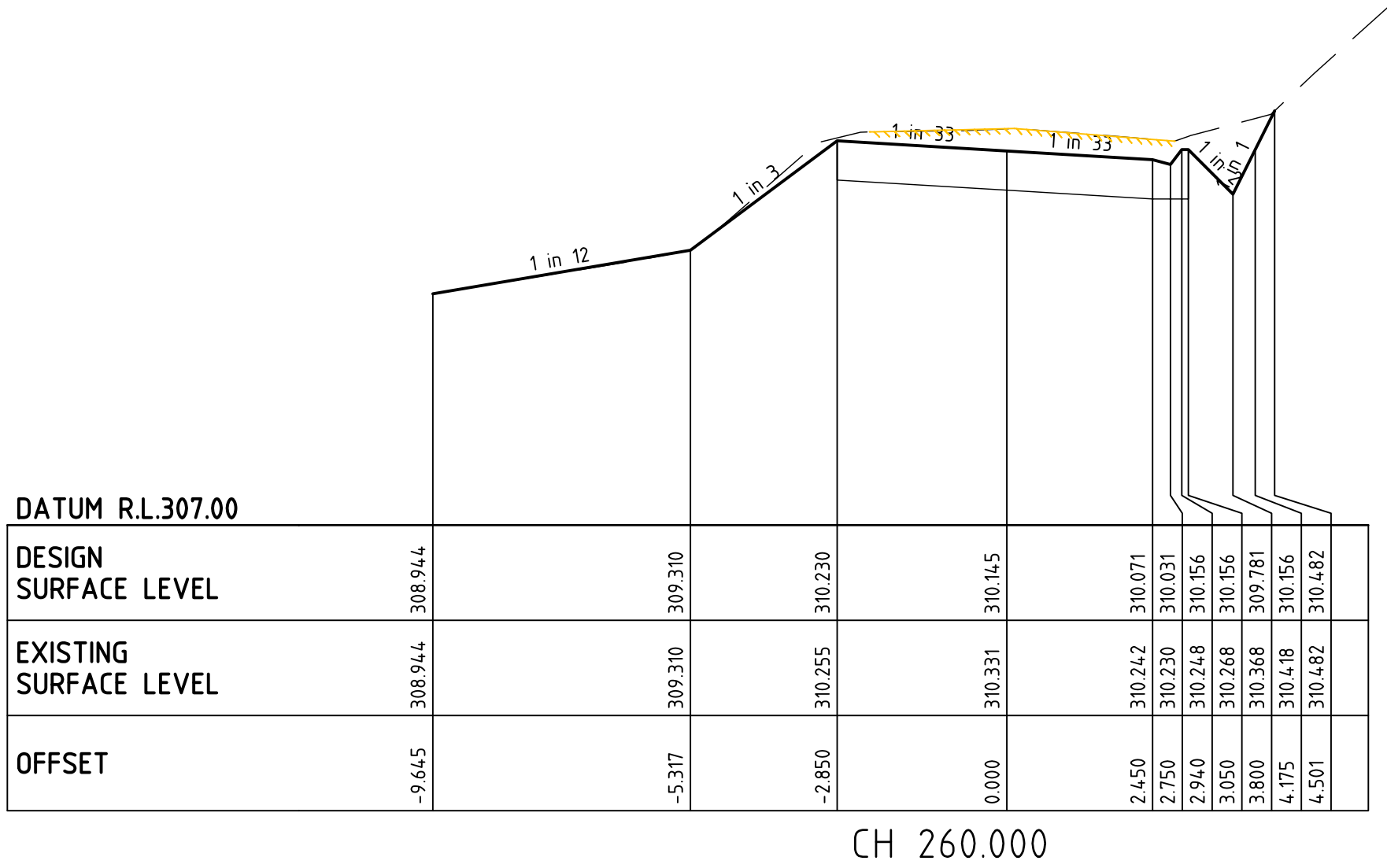
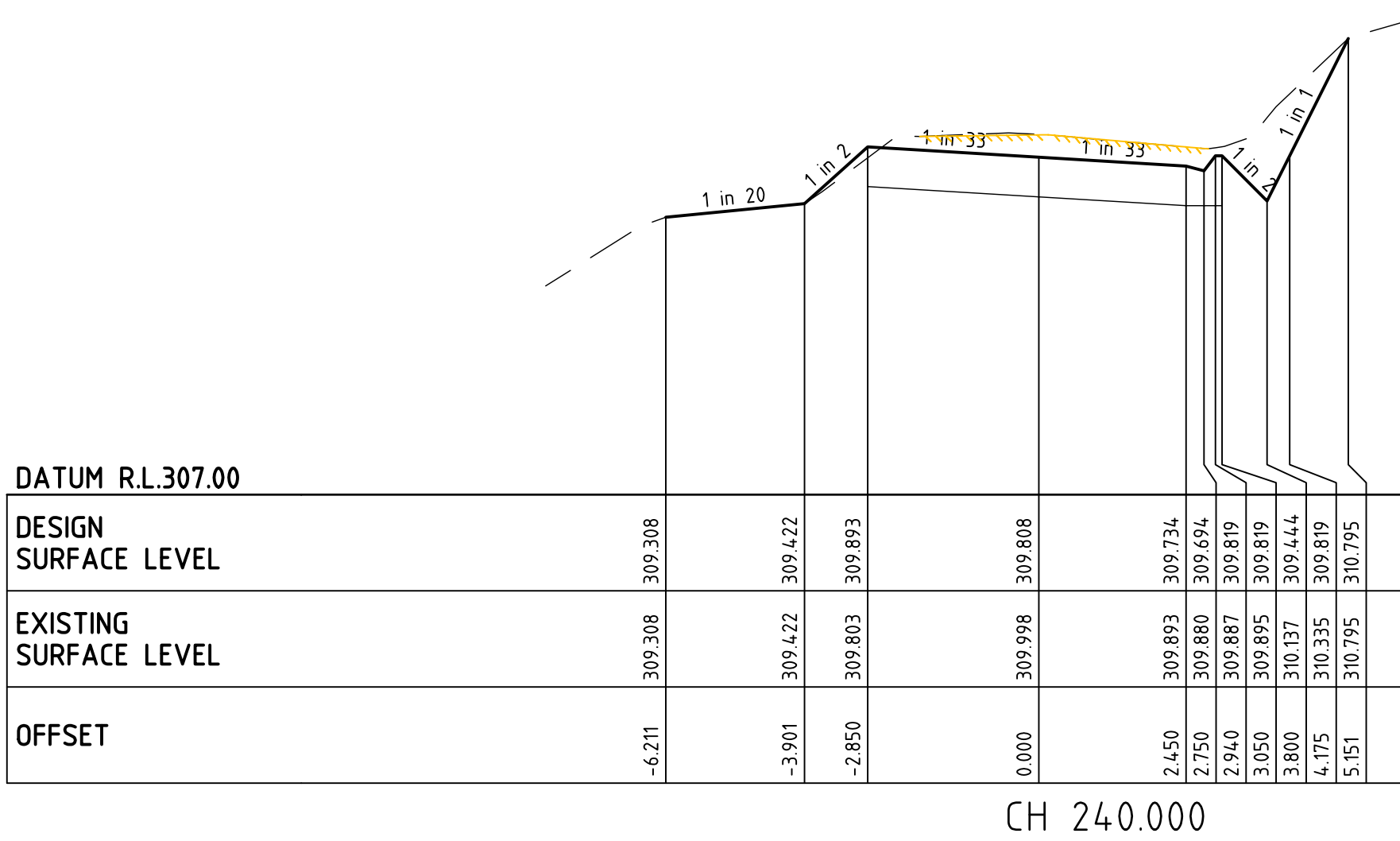
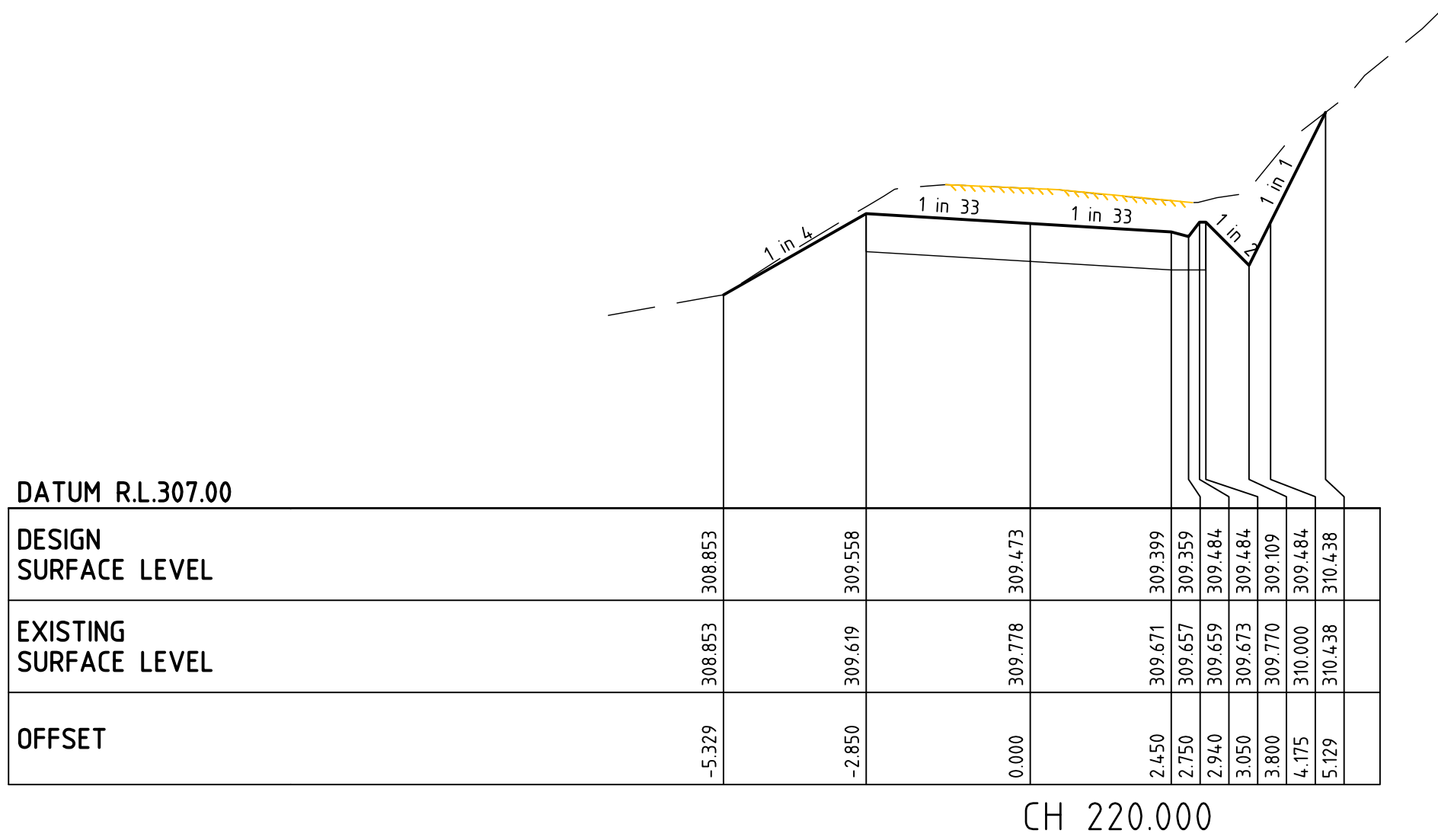
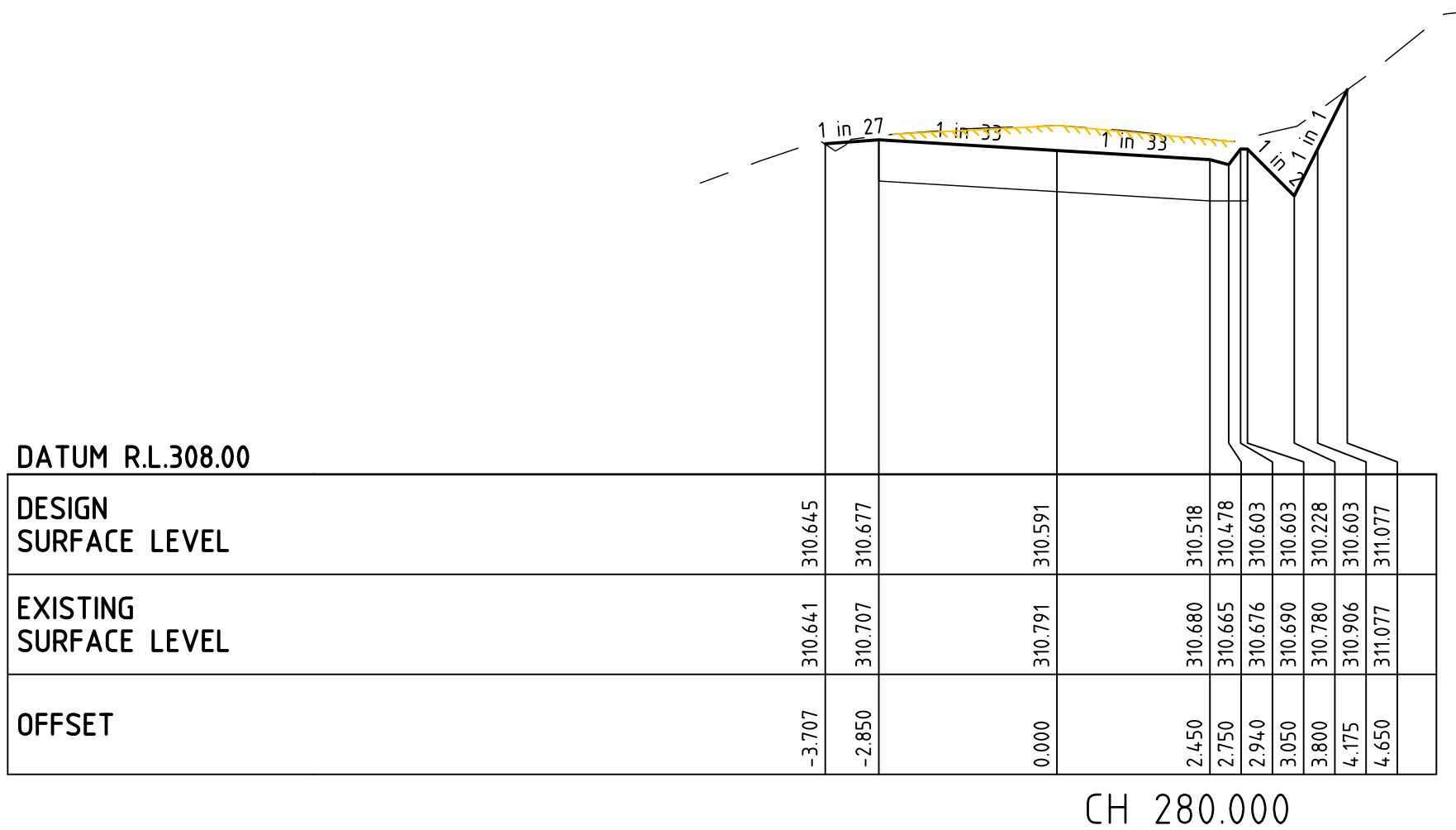
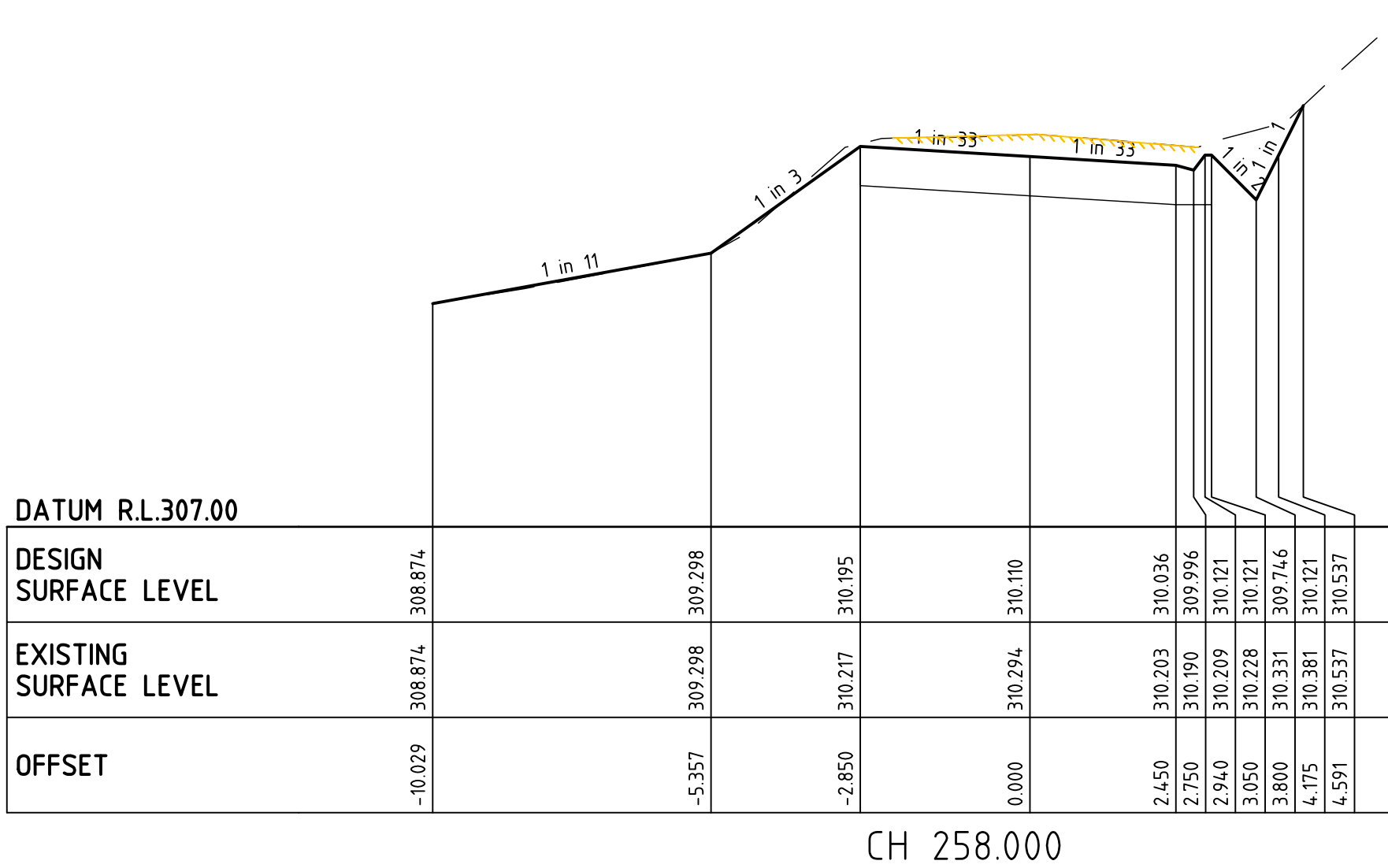
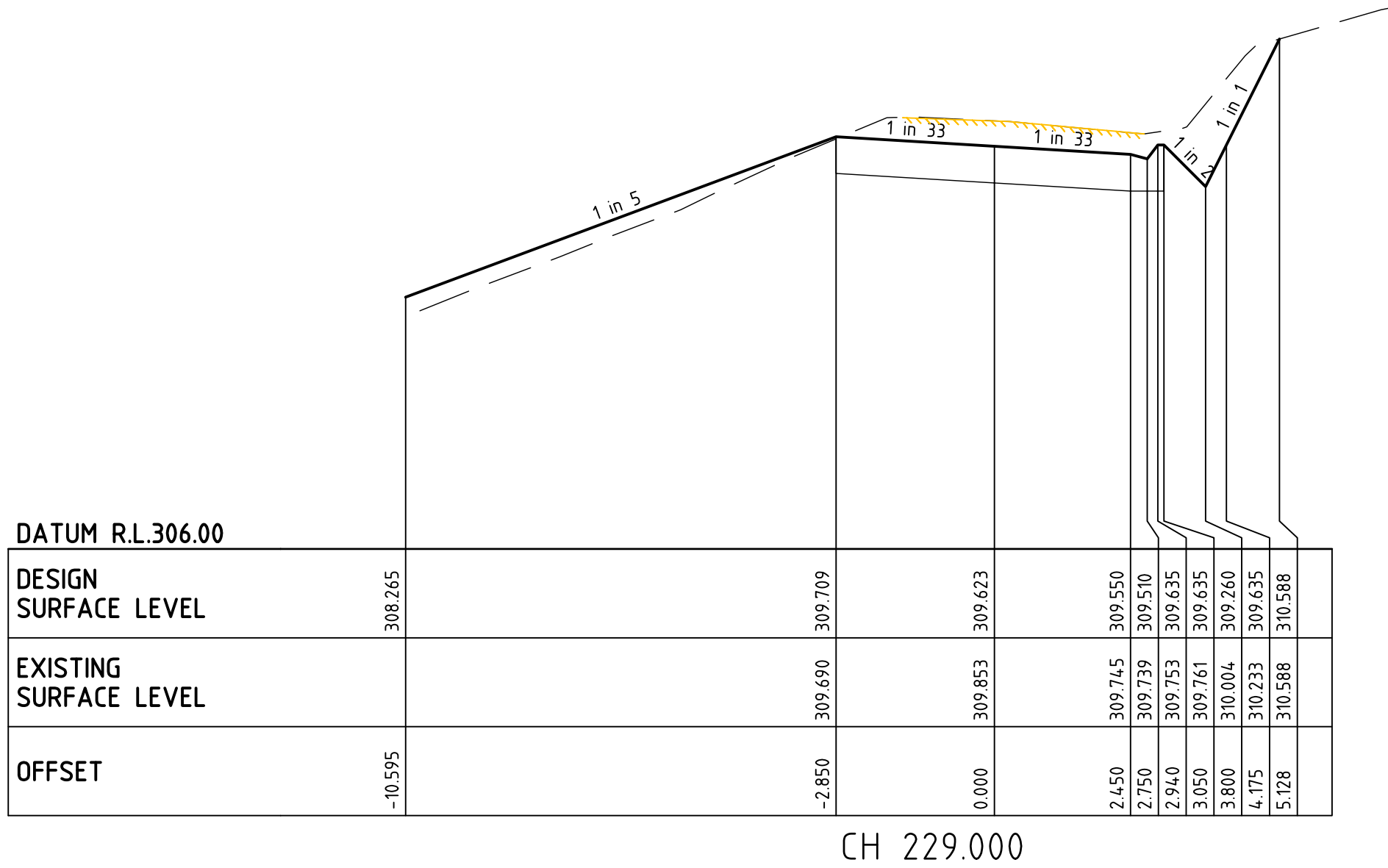
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18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SEALING OF THE DANDENONG RANGES		SHEET - 10 OF 16	
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK		REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020		STATION ST TO GEMBROOK-LAUNCHING PLACE RD		CCD REF. NO. - 20022	
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11		ROAD CROSS SECTIONS - SHEET 2		A1	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET		EX. PROP.							CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au			
18.01.2023	H	COUNCIL AMENDMENTS									PHONE: 5995 4388 FAX: 5995 5330	Dwg. Location: C:\V2d\Projects\20-02\20022-10 Revit.dwg; Editor: arosmann			





CROSS SECTIONS INNES ROAD

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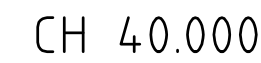
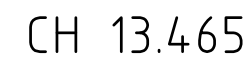
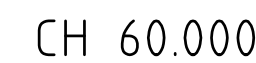
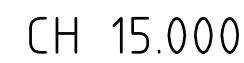
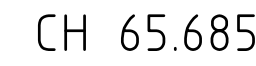
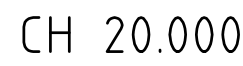
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DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DESIGNED	AR	SCALE	AS SHOWN	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	CARDINIA SHIRE COUNCIL	DRAWING NO. - CCD20022-11
18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SEALING OF THE DANDENONG RANGES	SHEET - 11 OF 16
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK	REVISION - H
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020		STATION ST TO GEMBROOK-LAUNCHING PLACE RD	CCD REF. NO. - 20022
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11		ROAD CROSS SECTIONS - SHEET 3	A1
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET		EX. PROP.								
18.01.2023	H	COUNCIL AMENDMENTS			EX. PROP.								










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DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DESIGNED	AR	SCALE	AS SHOWN	 CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au PHONE: 5995 4388 FAX: 5995 5330	CARDINIA SHIRE COUNCIL				DRAWING NO. - CCD20022-13	
18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SEALING OF THE DANDENONG RANGES				SHEET - 13 OF 16	
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK				REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020		STATION ST TO GEMBROOK-LAUNCHING PLACE RD				CCD REF. NO. - 20022	
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.							ROAD CROSS SECTIONS - SHEET 5				A1	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET		EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11							
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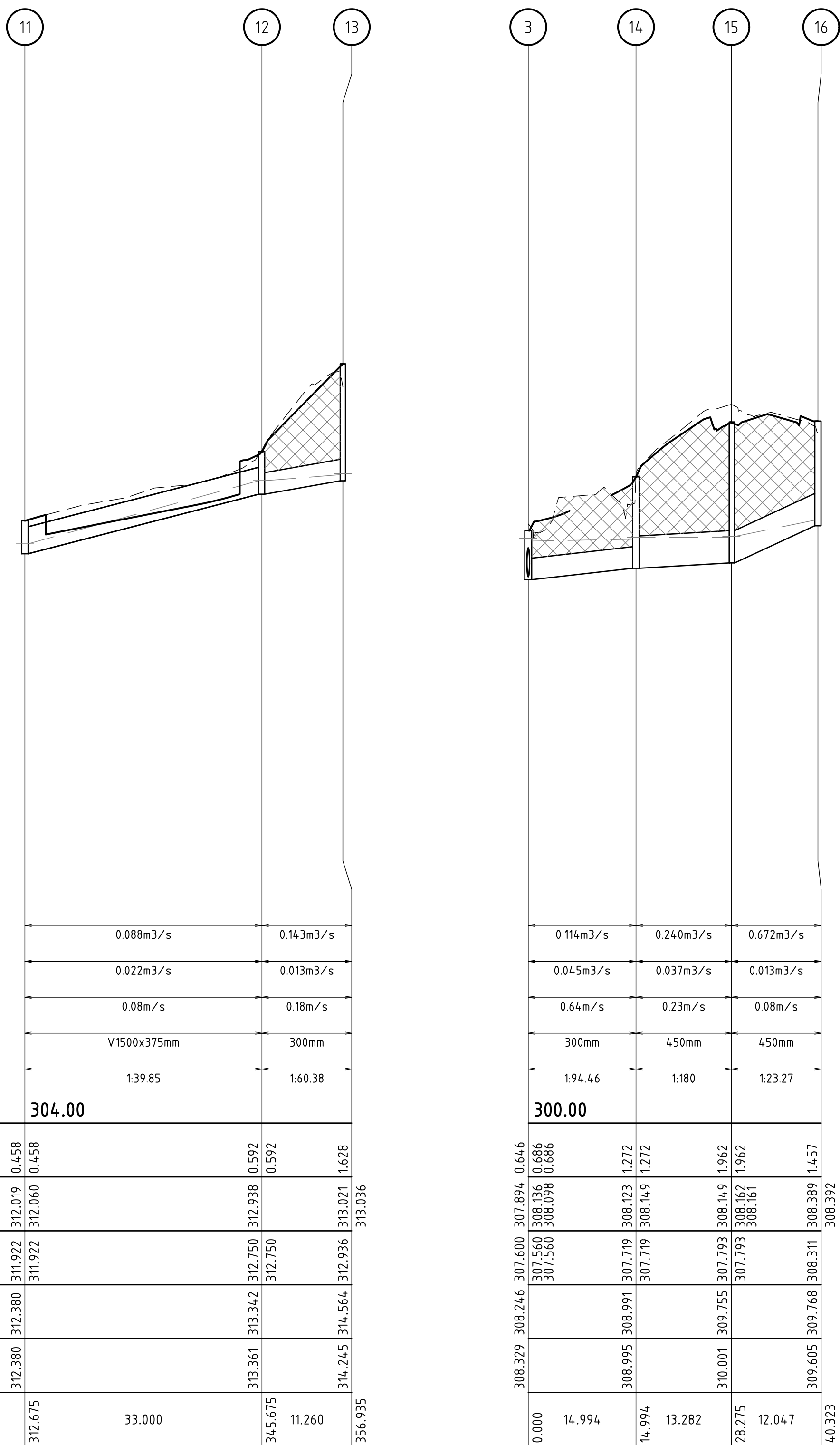




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ISSUED FOR CONSTRUCTION

[illegible]






PIPE CAPACITY	0.088m3/s		0.143m3/s
FLOW	0.022m3/s		0.013m3/s
VELOCITY	0.08m/s		0.18m/s
PIPE DIAMETER	V1500x375mm		300mm
GRADE	1:39.85		1:60.38
DATUM RL	304.00		
DEPTH TO INVERT	311.922	312.019	0.458
HGL LEVEL	311.922	312.060	0.458
INVERT LEVEL	312.380	312.750	0.592
FINISHED SURFACE	312.380	313.342	0.592
EXISTING SURFACE	312.380	313.361	0.592
CHAINAGE	312.675	345.675	11.260

308.329	308.246	307.600	307.894	0.646
307.560	308.136	0.586		
307.560	308.098	0.586		
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 DENOTES CRUSHED ROCK BACKFILL

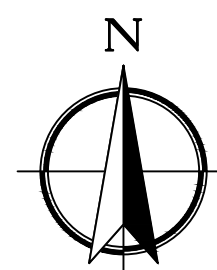
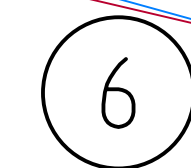


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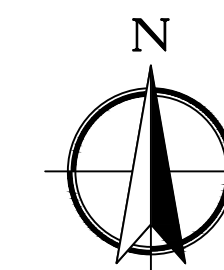
DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DESIGNED	AR	SCALE	AS SHOWN	 CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au PHONE: 5995 4388 FAX: 5995 5330	CARDINIA SHIRE COUNCIL SEALING OF THE DANDENONG RANGES INNES ROAD, GEMBROOK STATION ST TO GEMBROOK-LAUNCHING PLACE RD DRAINAGE LONGITUDINAL SECTIONS - SHEET 2		DRAWING NO. - CCD20022-15		
18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020				SHEET - 15 OF 16		REVISION - H CCD REF. NO. - 20022		A1
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC						
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020						
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11						
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET													
18.01.2023	H	COUNCIL AMENDMENTS														

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SPEED CUSHION LOCATION PLAN – CH 180



SPEED CUSHION LOCATION PLAN – CH 320



DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DESIGNED	AR	SCALE	AS SHOWN	 CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au PHONE: 5995 4388 FAX: 5995 5330	CARDINIA SHIRE COUNCIL				DRAWING NO. - CCD20022-16		
18.12.2020	B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. PROP.		DATE	JULY 2020					SEALING OF THE DANDENONG RANGES				SHEET - 16 OF 16	
07.07.2021	C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS	EX. PROP.		CHECKED	SC	APPROVED	SC			INNES ROAD, GEMSBROOK				REVISION - H	
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. PROP.		DATE	DEC 2020	DATE	DEC 2020			STATION ST TO GEMSBROOK-LAUNCHING PLACE RD				CCD REF. NO. - 20022	
15.11.2021	E	GEOMETRIC AMENDMENTS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS	EX. PROP.		DATUM	AHD	MELWAYS REFERENCE	105A11			SPEED CUSHION DETAIL PLAN				A1	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED PROPERTY INLET															
18.01.2023	H	COUNCIL AMENDMENTS																

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