GENERAL NOTES

- 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.
- COUNCIL TO BE NOTIFIED SEVEN (7) CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- ALL LEVELS SHOWN ARE TO A.H.D.
- 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.
- 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.
- NO EXCAVATION SHALL BE CARRIED OUT WITHIN THE CANOPY DRIP LINE OR 5.0M, WHICHEVER IS GREATER OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY SUPERINTENDENT SUPERVISING OFFICER OR HIS/HER APPOINTED REPRESENTATIVE.
- 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.
- 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
- 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 KERBING 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. ALL EXCAVATIONS OF A DEPTH 1.5M 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 03) 9641 1444 TO OBTAIN FORM.
- FAX FORM/S TO: 03) 9565 9400 OR 9941 0555.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25 MPA AT 28 DAYS.
- 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.
- 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.
- 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.
- 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.
- 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.
- BATTERS SHALL BE 1 IN 6 MINIMUM UNLESS OTHERWISE APPROVED AND COVERED AND SMOOTHED WITH MINIMUM OF 100MM TOPSOIL.
- ROAD PAVEMENTS ARE TO HAVE A MINIMUM DEPTH AS SPECIFIED IN THE TYPICAL SECTION.
- 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
- 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
- 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.
- 6) 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

- 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 IMEADIATELTY TO AVOID IT ENTERING DRAINAGE SYSTEMS AND TO MINIMIZE TRAFFIC HAZARDS. 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. 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.
- 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.
- 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. 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. 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

WEARING COURSE

PRIMER SEAL

PRIMER SEAL COAT

SUB BASE COURSE

/30mm SIZE 10 TYPE N CLASS 320 ASPHALT

150mm SIZE 20mm CLASS 2 CRUSHED ROCK

RE-WORK EXISTING STRIPPED SUBGRADE

ASPHALT PAVEMENT

COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED)

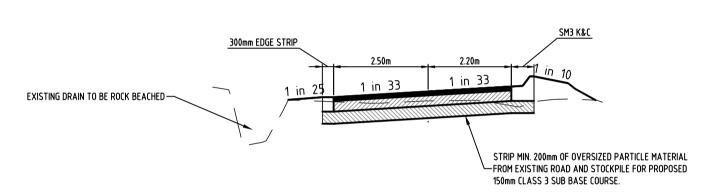
COMPACTED TO A MINIMUM DENSITY OF 95% (STANDARD).

150mm IN-SITU STABILISATION OF EXISTING ROAD FORMATION. SIZE 20mm CLASS 3 CRUSHED ROCK

AND/OR SUITABLE RE-USED EXISTING PAVEMENT MATERIAL (APPROVED BY SUPERINTENDENT)

FOR WIDENING AREAS. COMPACTED TO A MINIMUM DENSITY OF 98% (MODIFIED)



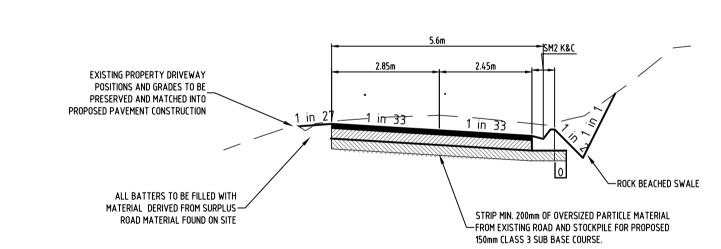


Gembrook

WATKINS LA

TYPICAL ROAD SECTION - INNES RD (LANEWAY)

NOT TO SCALE



TYPICAL ROAD SECTION - INNES RD (5.5m) NOT TO SCALE

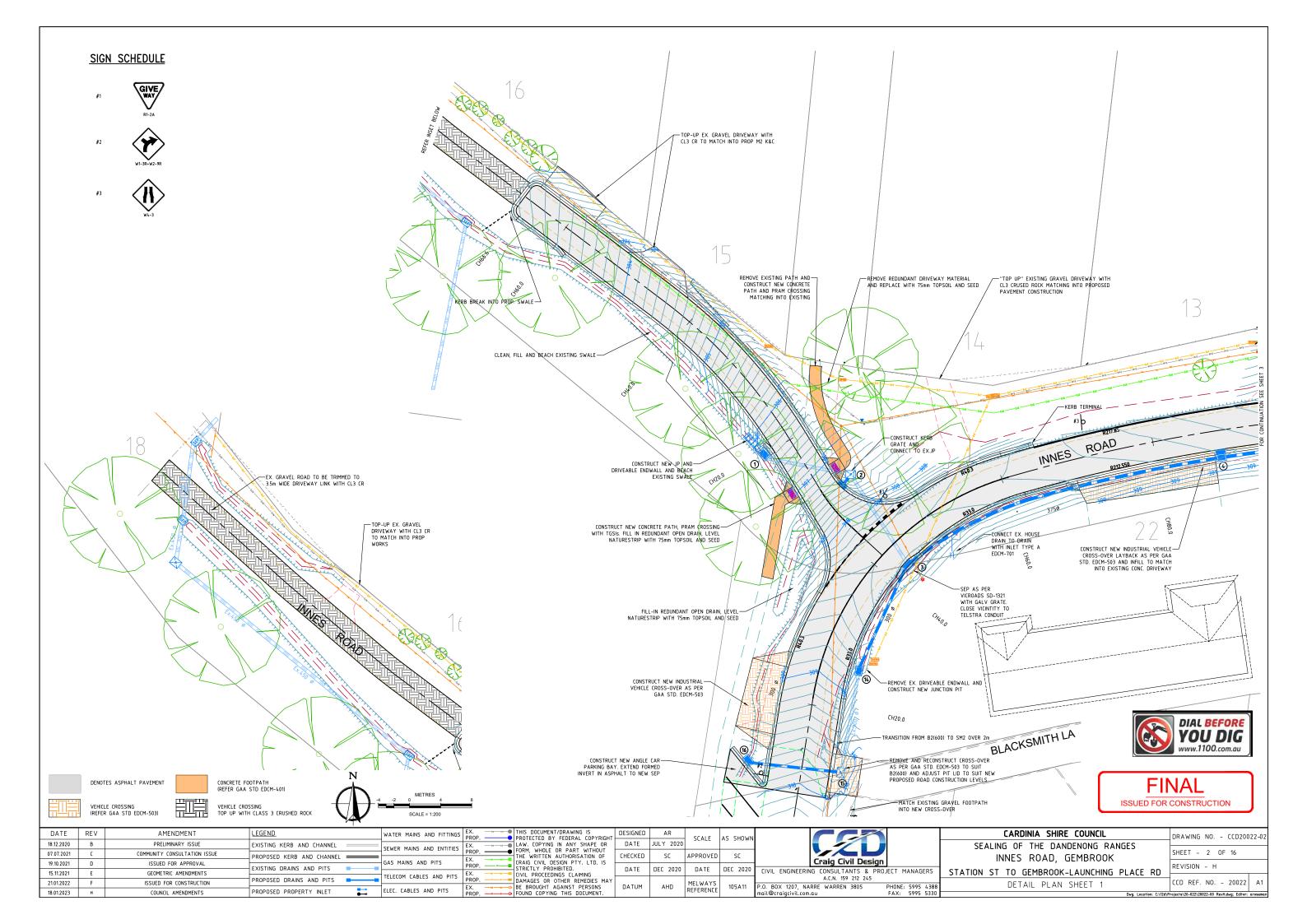
TRM SCHEDULE

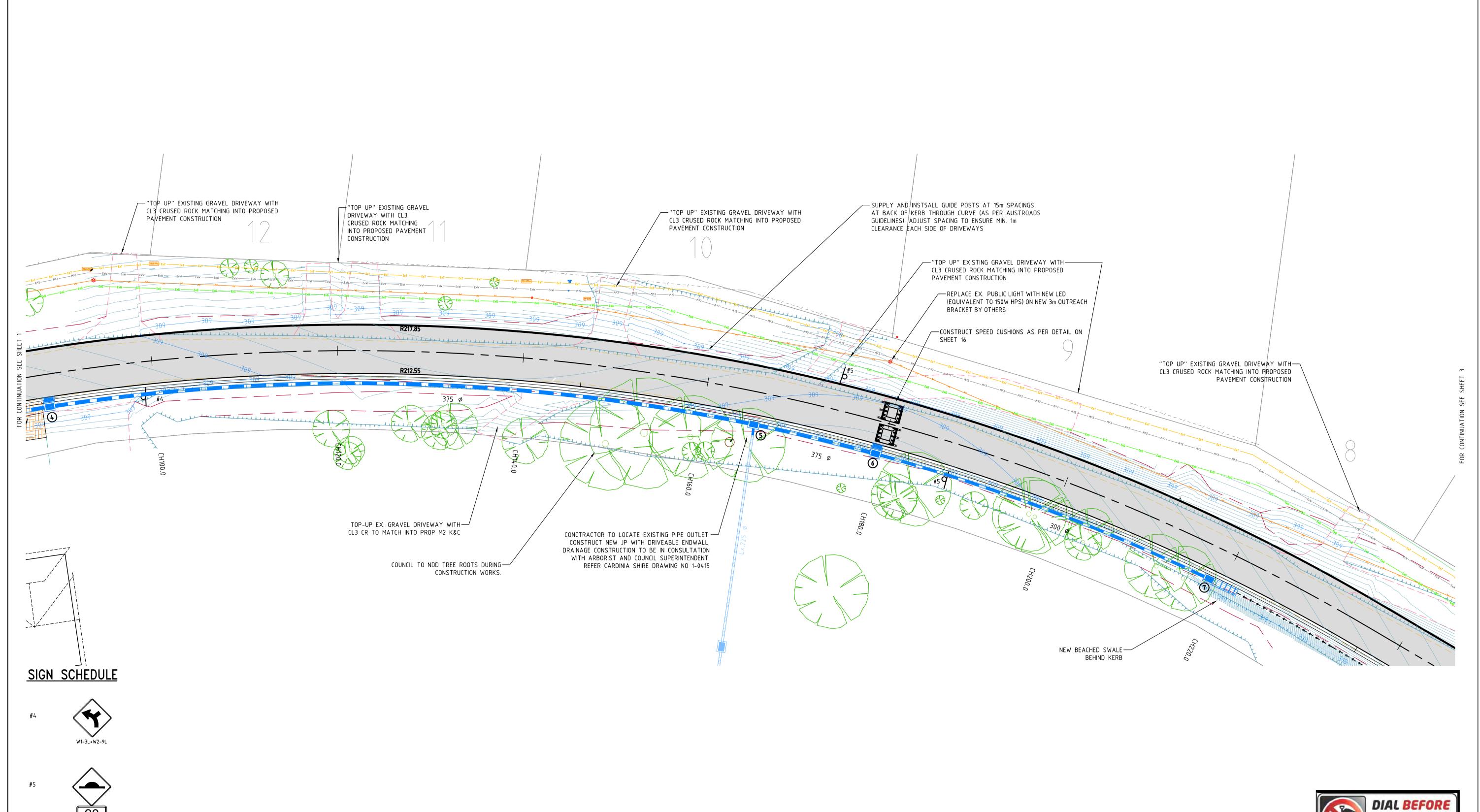
		CO-ORDINATES	5		
Reference	East	North	Elevation	Description	
PM12	371360.93	5799049.79	318.54	Perm Survey Mark	
STN1	371370.48	5799062.45	318.91	Rivet	
STN2	371469.05	5798949.31	310.04	Nail in Stake	
STN3	371686.64	5798803.82	311.67	Rivet	
STN4	371840.41	5798809.61	312.77	Spike	
STN5	371977.53	5798835.63	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	





DATE	REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTINGS PR		DESIGNED	AR	SCALE AS SHOW			CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-01
18.12.2020	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL ======	SEWER MAINS AND ENTITIES BE	LAW. COPYING IN ANY SHAPE OR	DATE	JULY 2020	0			SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL ======	PR	THE WRITTEN AUTHORISATION OF	CHECKED	SC	APPROVED SC			INNES ROAD, GEMBROOK	SHEET - 1 OF 16
19.10.2021	D	ISSUED FOR APPROVAL		GAS MAINS AND PITS	ROP. — CRAIG CIVIL DESIGN PTY. LTD. IS	DATE	DEC 2020	DATE DEC 2020	Craig Civil Design		•	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS BS	CIVIL PROCEEDINGS CLAIMING	DATE	DEC 2020	DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT I	MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	Ph	ROP. —'──'── DAMAGES OR OTHER REMEDIES MAY (. ————— BE BROUGHT AGAINST PERSONS	DATUM	\ \AHD	MELWAYS 105 A 11	A.C.N. 159 212 245 P.O. BOX 1207. NARRE WARREN 3805 PHONE	IE: 5995 4388	FACE SHEET	CCD REF. NO 20022 A1
18.01.2023	н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	ROP. ————————————————————————————————————	DATOIT	AIID	REFERENCE 103A11	mail@craigcivil.com.au FAX:			Projects\20-022\20022-00 RevH.dwg; Editor: aroseman



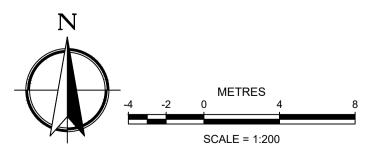






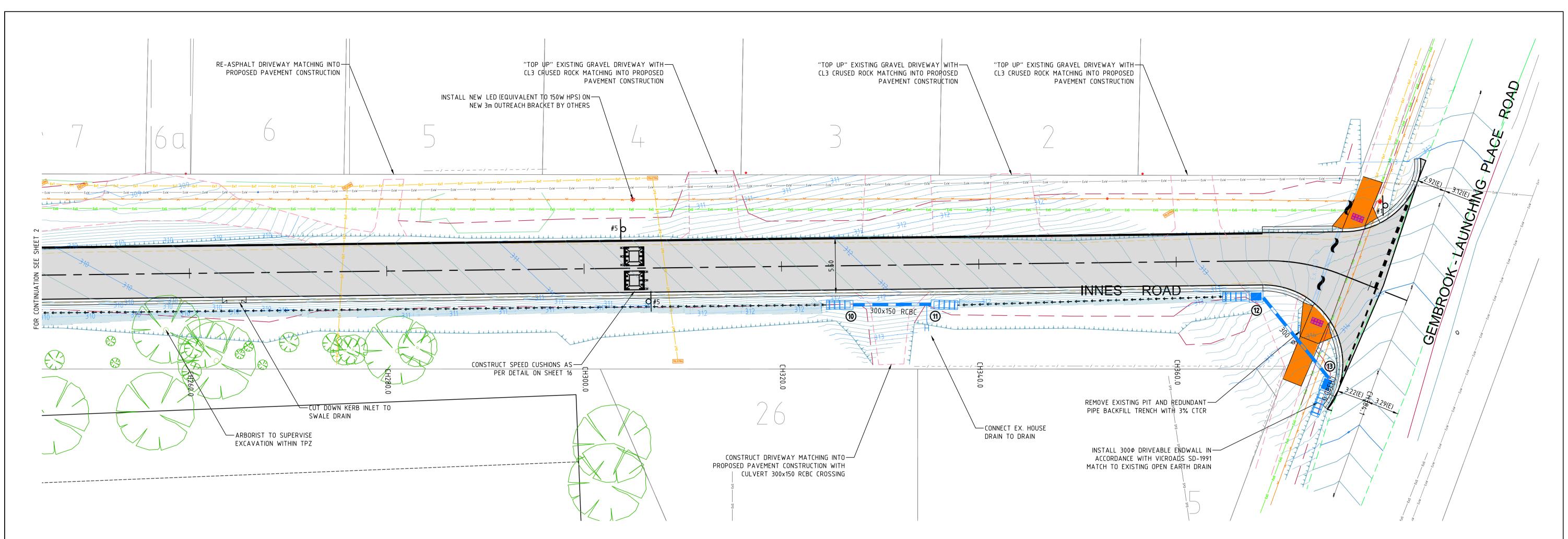
DENOTES ASPHALT PAVEMENT

VEHICLE CROSSING
(REFER GAA STD EDCM-503)



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ISSUED FOR CONSTRUCTION

DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. — LW— LW— THIS DOCUMENT/DRAWING IS PROPERTIES BY FEDERAL COPYRIGHT	DESIGNED AR	SCALE AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-03
18.12.2020	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. — 65—65— LAW. COPYING IN ANY SHAPE OR	DATE JULY 2020) SCALE AS SHOWN		SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	= SEWER TIAIRS AND ENTITIES	PROP. ————————————————————————————————————	CHECKED SC	APPROVED SC		INNES ROAD, GEMBROOK	SHEET - 3 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS	DATE DEC 2020	DATE DEC 2020	Craig Civil Design	'	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	EX. ————————————————————————————————————		DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS A.C.N. 159 212 245	STATION ST TO GEMBROOK-LAUNCHING PLACE RI	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. ————————————————————————————————————	DATUM AHD	MELWAYS 105 A 11	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	DETAIL PLAN SHEET 2	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. ————————————————————————————————————	DATOIT AID	REFERENCE 105A11	mail@craigcivil.com.au FAX: 5995 5330		:\12d\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman

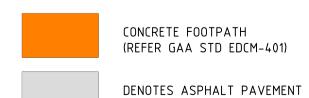


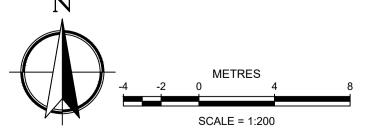
SIGN SCHEDULE







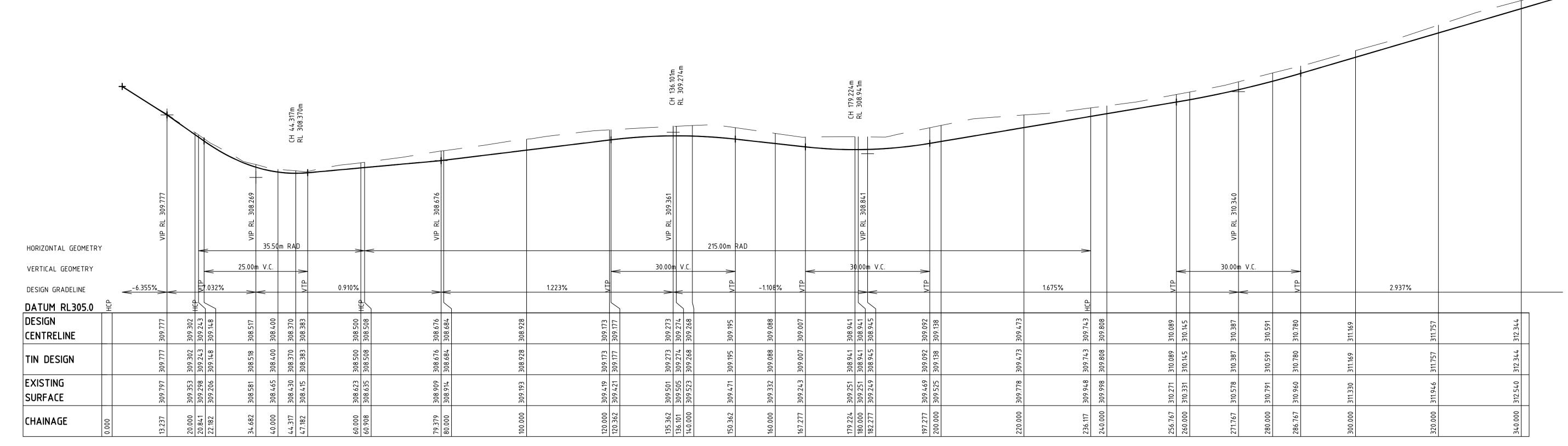




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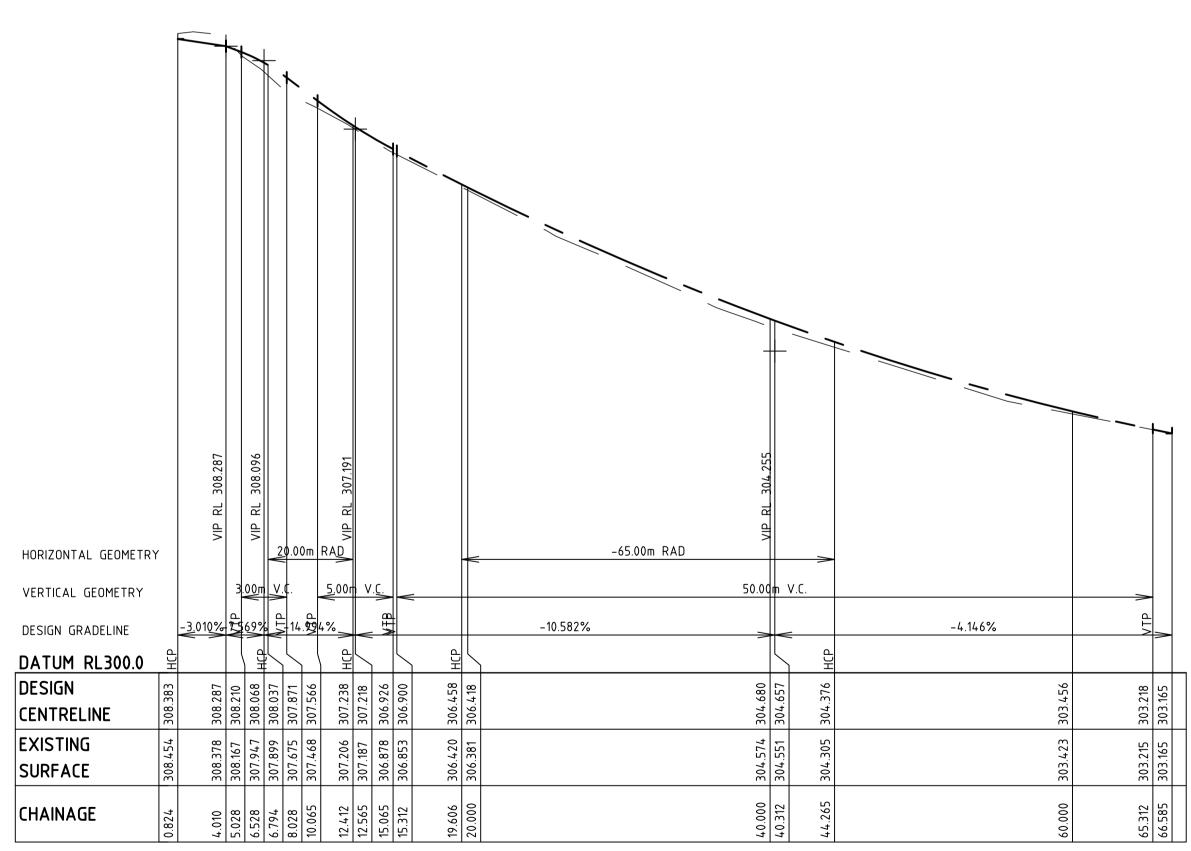
FOR	CONTINUATION	SEE	ΑВ
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							FOR C	CONTINUATION	SEE ABOVE				
DATE	REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTINGS	EX. ————————————————————————————————————	DESIGNED	AR	SCALF	AS SHOWN			CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-04
18.12.2020	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL ======	SEWER MAINS AND ENTITIES	I AW COPYING IN ANY SHAPE OR	DATE	JULY 2020	JCALL	713 3110 WIL			SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	= SEWER FIAIRS AND ENTITIES	THE WRITTEN AUTHORISATION OF	CHECKED	sc .	APPROVED	SC			INNES ROAD, GEMBROOK	SHEET - 4 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DATE	DEC 2020	DATE	DEC 2020	Craig Civil Design		·	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	EX. CIVIL PROCEEDINGS CLAIMING		DEC 2020	DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJE A.C.N. 159 212 245	ECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. ——————— DAMAGES OR OTHER REMEDIES MAY EX. ————————————————————————————————————	DATUM	AHD ,	MELWAYS REFERENCE	105 A 11		PHONE: 5995 4388	DETAIL PLAN SHEET 3	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. ————————————————————————————————————	27,1011	,	REFERENCE			FAX: 5995 5330		d\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman



LONGITUDINAL SECTION INNES ROAD

Horizontal scale 1:500





LONGITUDINAL SECTION INNES ROAD

2.937%

6.484

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL309.0

CENTRELINE

TIN DESIGN

EXISTING

SURFACE

CHAINAGE

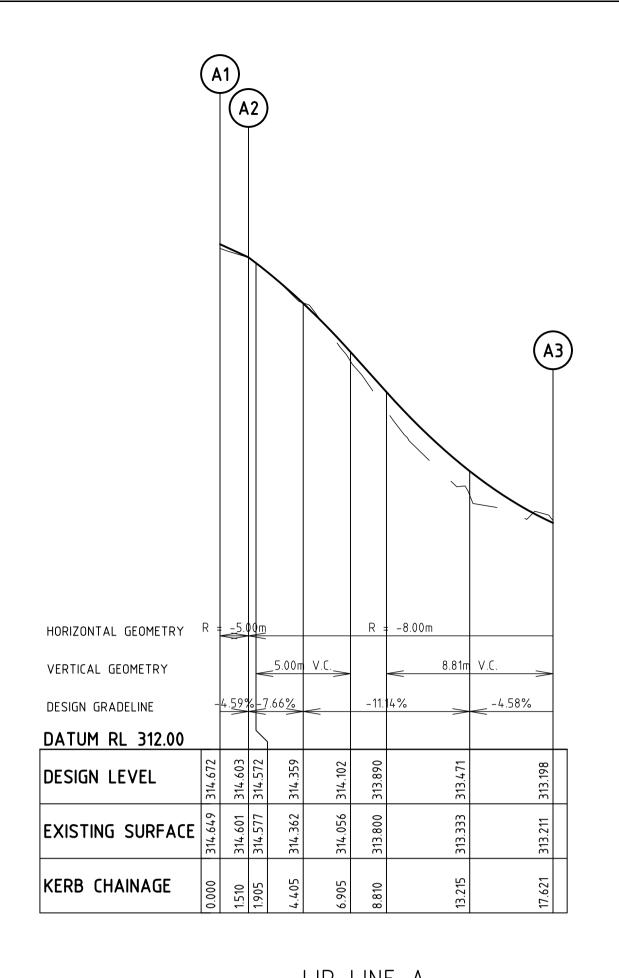
DESIGN

Horizontal scale 1:500 Vertical scale 1:50 LONGITUDINAL SECTION INNES ROAD (LANEWAY)

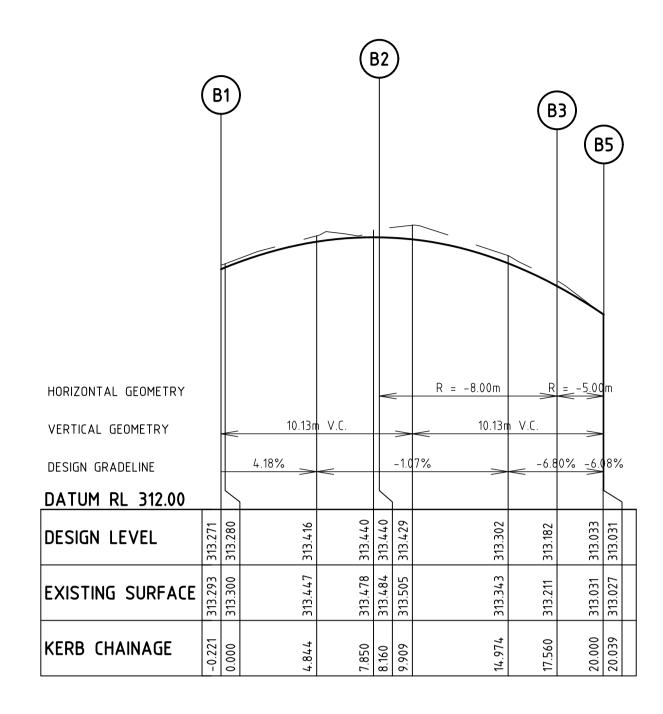
Horizontal scale 1:250 Vertical scale 1:50

FINAL
ISSUED FOR CONSTRUCTION

DATE REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTINGS	EX. — EM — EM — THIS PROP. — PROTE	DOCUMENT/DRAWING IS FCTED BY FEDERAL COPYRIGHT —	DESIGNED	AR SCALE	AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-05
18.12.2020 B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL =======	SEWER MAINS AND ENTITIES	EX. —Exs—Exs—	COPYING IN ANY SHAPE OR	DATE JUL	Y 2020	7.3 3110 1111		SEALING OF THE DANDENONG RANGES	
07.07.2021 C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	SEWER TIAIRS AND ENTITIES	PROP. ————————————————————————————————————	WRITTEN AUTHORISATION OF	CHECKED	SC APPROVED	SC		INNES ROAD, GEMBROOK	SHEET - 5 OF 16
19.10.2021 D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG	G CIVIL DESIGN PTY. LTD. IS	DATE DE	5 0000 BATE	DEC 0000	Craig Civil Design	<u></u>	REVISION - H
15.11.2021 E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	1 = \(\)	TLY PROHIBITED. PROCEEDINGS CLAIMING	DATE DEC	C 2020 DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	1121131311
21.01.2022 F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	TEELECOTT CABLES AND TITS	PROP. — T— DAMA	AGES OR OTHER REMEDIES MAY	DATUM	MELWAYS	10 E A 11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 438	ROAD LONGITUDINAL SECTIONS	CCD REF. NO 20022 A1
18.01.2023 H	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. —:—— FOUND	D COPYING THIS DOCUMENT.	DATON	REFERENCE	וו A כטו	mail@craigcivil.com.au FAX: 5995 5330		Projects\20-022\20022-00 RevH.dwa: Editor: aroseman

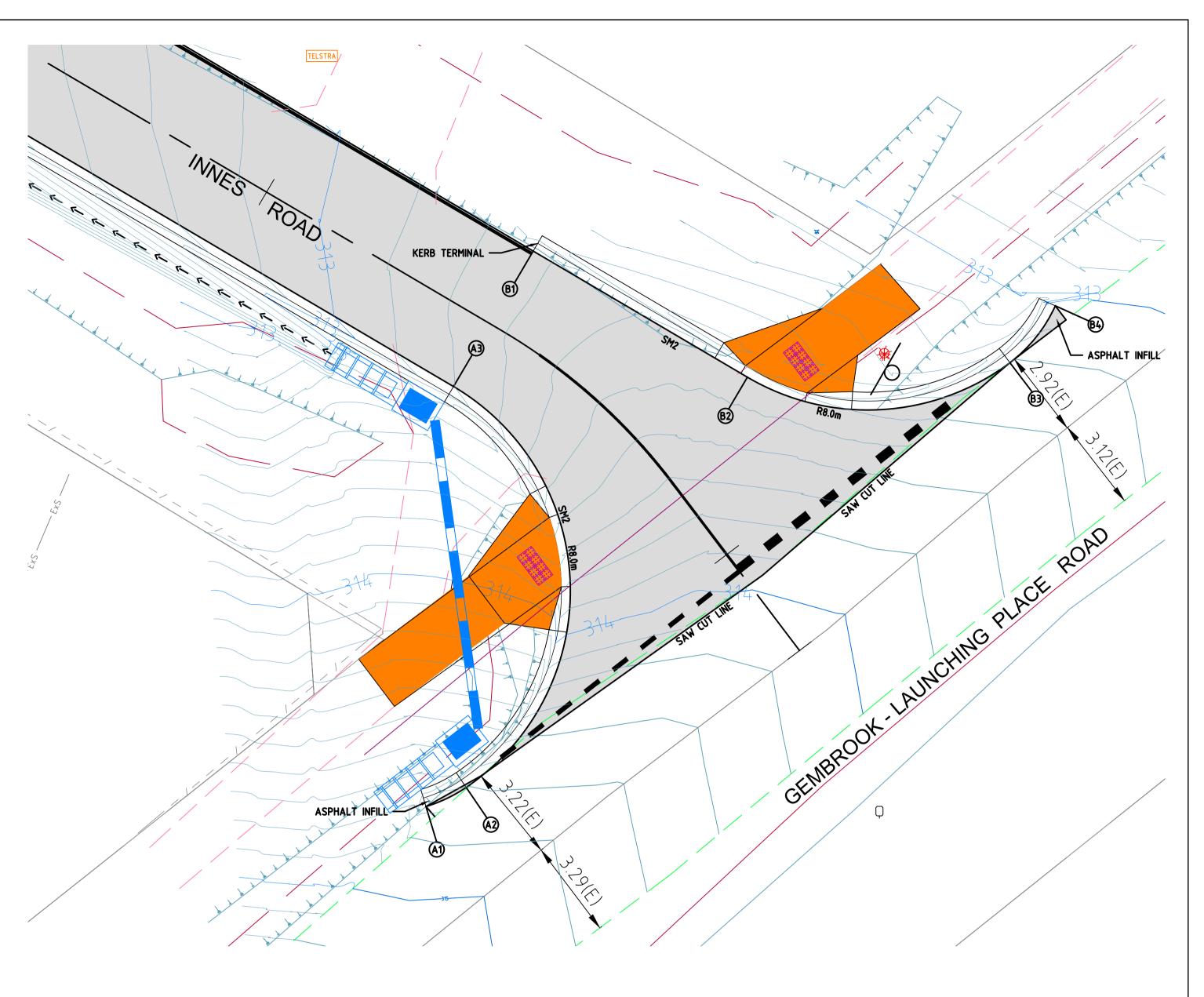


LIP LINE A Horizontal scale 1:200 Vertical scale 1:20



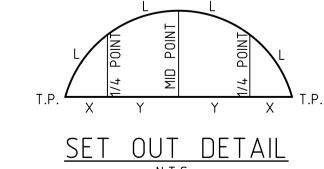
LIP LINE B Horizontal scale 1:200 Vertical scale 1:20

<u>Alignment A</u>										
Point no A1 A2 A3	Easting 372970.655 372972.013 372971.585	Nort 579847 579847 579848	5 . 0 4 2 5 . 6 8 9	R L 3 1 4 . 6 7 2 3 1 4 . 6 0 3 3 1 3 . 1 9 8						
Curve no A1 - A2 A2 - A3	l 17.300 115.386	Radius 5.000 8.000	Arc 1.510 16.111		B 0 . 0 4 3 2 . 7 3 2	X 0 . 3 7 7 3 . 8 6 0	Y 0 . 3 7 5 2 . 9 0 2	l 0 . 3 7 7 4 . 0 2 8	Mid point 314.637 313.808	RL
<u>Alignment B</u> Point no	Easting	Nort	hina	RL						
B 1	372974.274	579849	_	313.271						
B 2	372981.496	579848	9.520	313.440						
B 3	372990.351	579849	0.010	313.182						
B 4	372991.882	579849	1 . 9 2 8	313.031						
Curve no	1	Radius	Arc	A	В	X	Υ	l	Mid point	RL
B2 - B3	67.322	8.000	9.400		0.999	2.316	2.118	2.350	313.373	
B3 - B4	28.406	5.000	2.479	0.153	0 . 1 1 4	0.618	0.609	0.620	313.111	





INTERSECTION DETAIL GEMBRROK - LAUNCHING PLACE ROAD

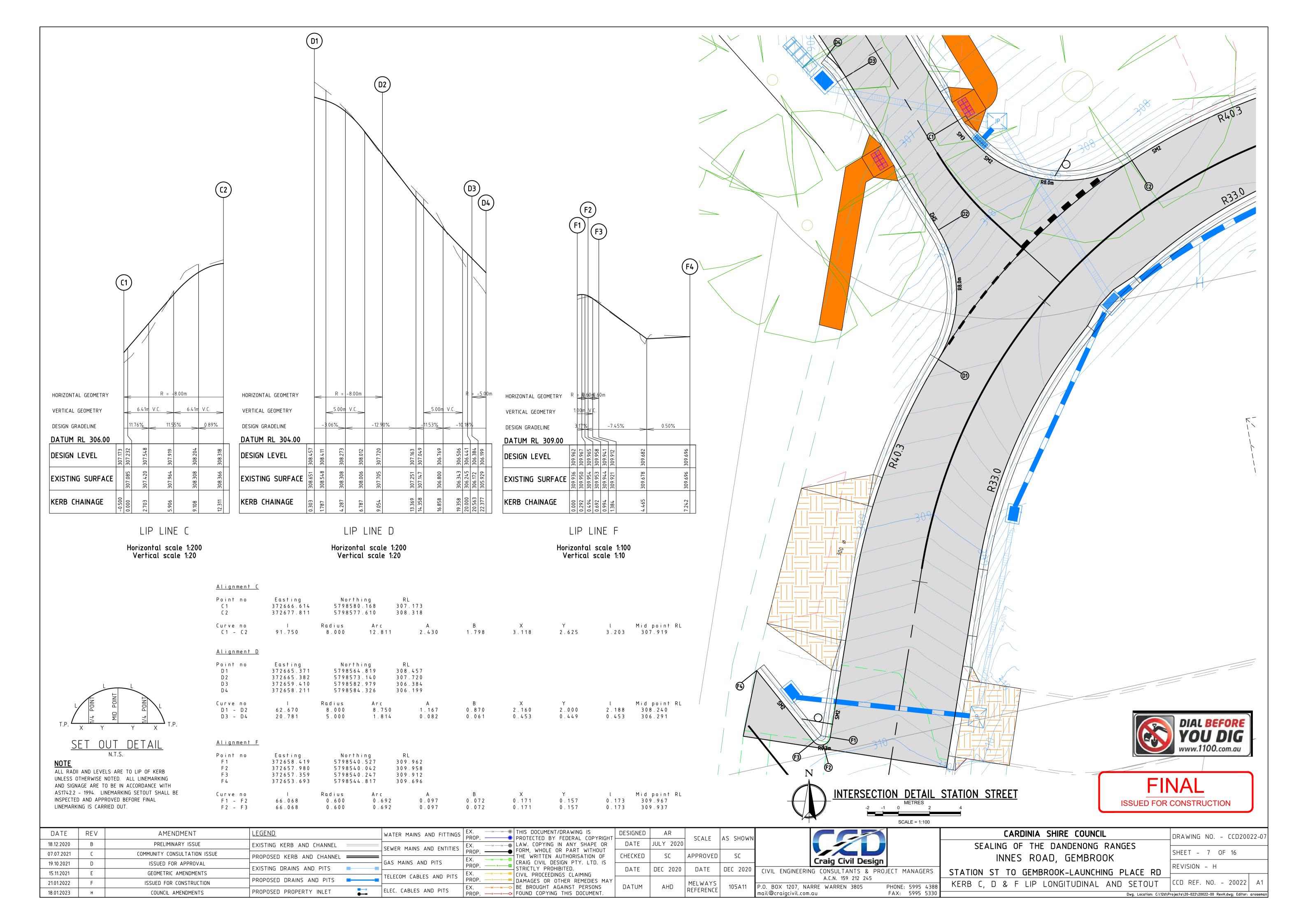


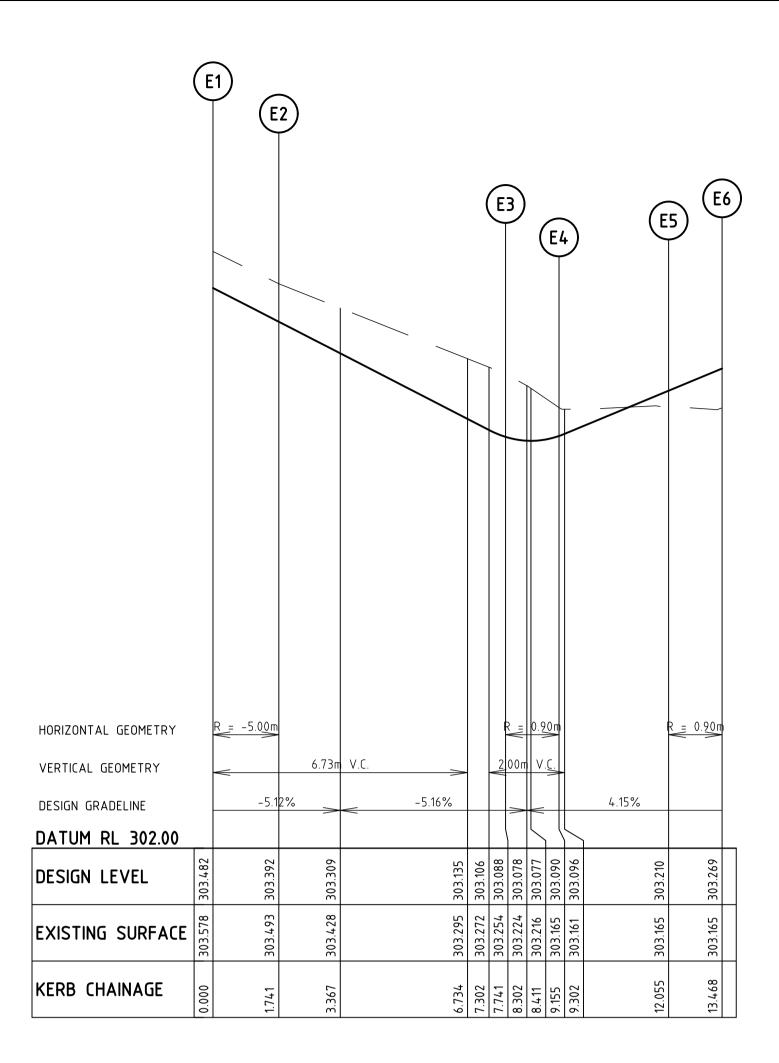
NOTE
ALL RADII AND LEVELS ARE TO LIP OF KERB UNLESS OTHERWISE NOTED. ALL LINEMARKING AND SIGNAGE ARE TO BE IN ACCORDANCE WITH AS1742.2 - 1994. LINEMARKING SETOUT SHALL BE INSPECTED AND APPROVED BEFORE FINAL LINEMARKING IS CARRIED OUT.



FINAL	
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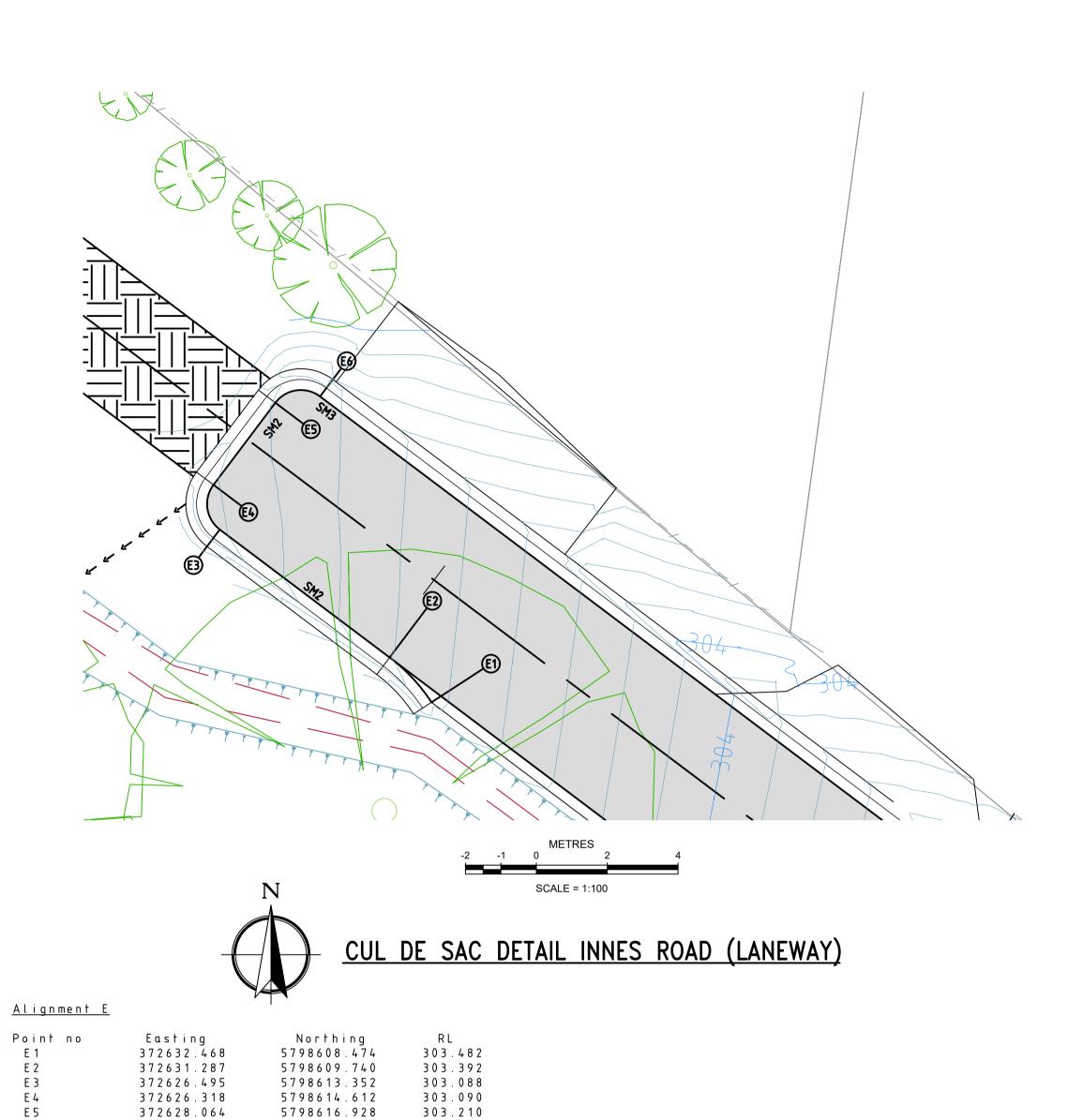
DATE RE	EV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	S EX. — LAN — LAN — THIS DOCUMENT/DRAWING IS	DESIGNED	AR	SCALE	AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-06
18.12.2020 E	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX. — 65—65— LAW. COPYING IN ANY SHAPE OR	DATE	JULY 2020	JCALL	A3 3HOWN		SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL =	= SEWER TIAINS AND ENTITIES	THE WRITTEN AUTHORISATION OF	CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK	SHEET - 6 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DATE	DEC 2020	DATE	DEC 2020	Craig Civil Design		REVISION - H
15.11.2021 I	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	EX. ————— CIVIL PROCEEDINGS CLAIMING		DEC 2020	DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANA A.C.N. 159 212 245	ERS STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. —————— DAMAGES OR OTHER REMEDIES MAY EX. —————— BE BROUGHT AGAINST PERSONS	DATUM	ΔHD	MELWAYS	105 A 11	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 599	4388 KERB A & B LIP LONGITUDINAL AND SETOUT	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. ————————————————————————————————————	5,(1011	, (118	REFERENCE	103/111	mail@craigcivil.com.au FAX: 599!		L d\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman

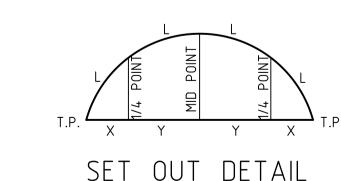




LIP LINE E

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Mid point RL

0.435 303.437

0.353 303.077

0.353 303.239

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.



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ISSUED FOR CONSTRUCTION	

DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS	EX. — THIS DOCUMENT/DRAWING IS PROPERTION BY FEDERAL COPYRIGHT.	DESIGNED	AR SCALE	AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-08
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07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	SEWER TIAIRS AND ENTITIES	PROP. ————————————————————————————————————	CHECKED	SC APPROVED	SC		INNES ROAD, GEMBROOK	SHEET - 8 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS	DATE D	DEC 2020 DATE	DEC 2020	Craig Civil Design	·	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	EX. ————————————————————————————————————	DATE	DEC 2020 DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. — DAMAGES OR OTHER REMEDIES MAY	DATUM	AHD MELWAYS	105 Λ 11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	KERB E LIP LONGITUDINAL AND SETOUT	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. ————————————————————————————————————	BATOIT	REFERENCE	IIIACUI	mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: C:\12	d\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman

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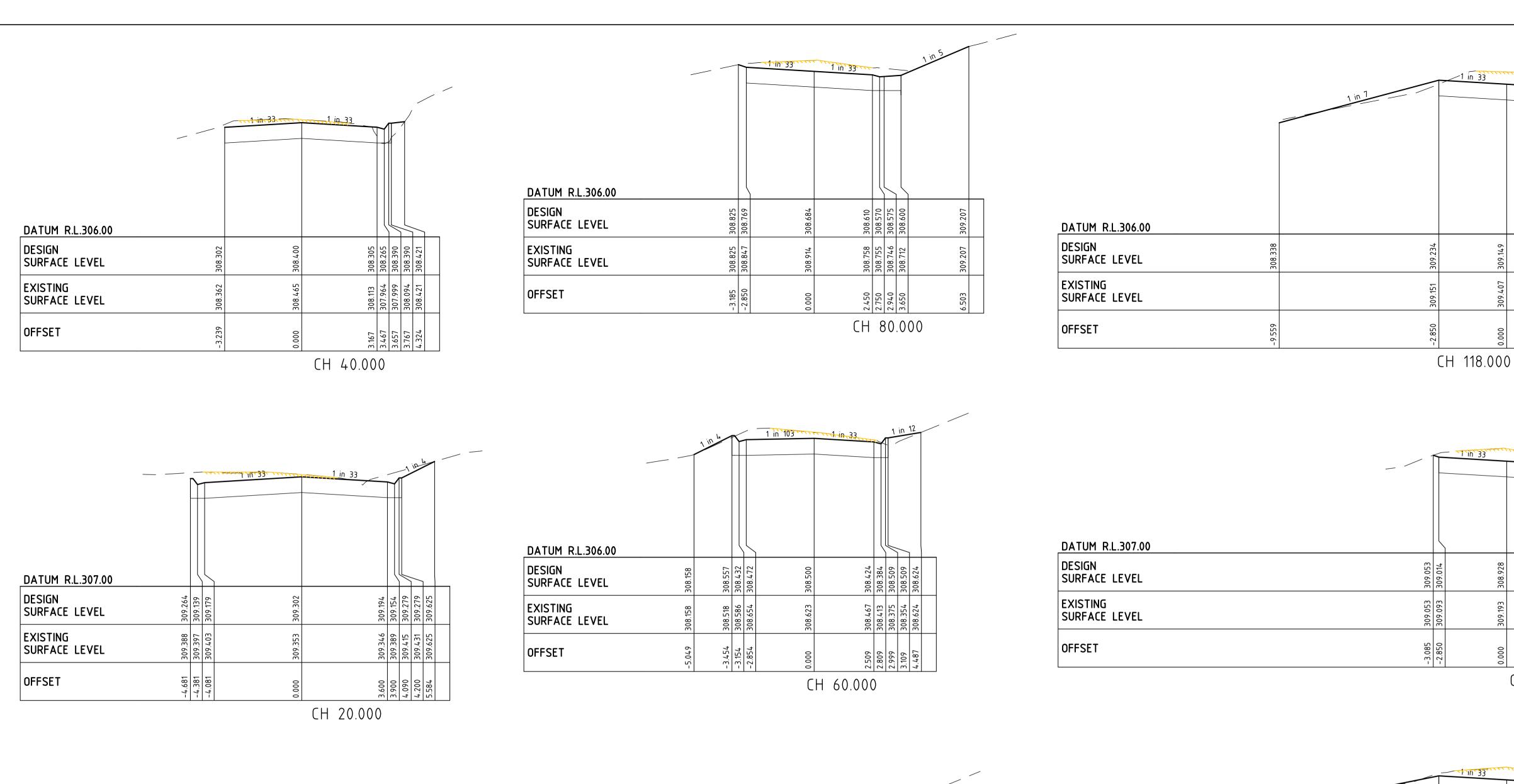
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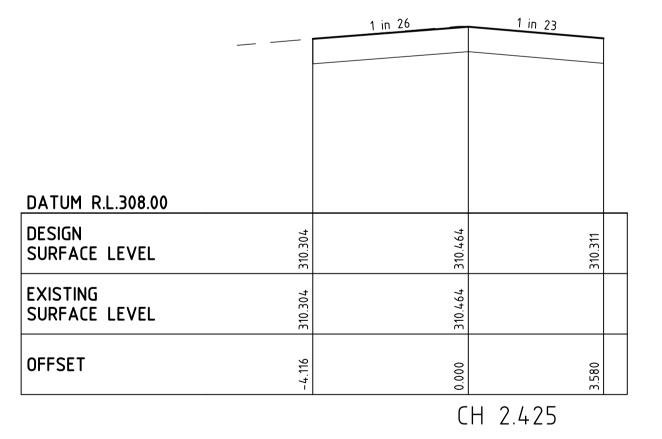
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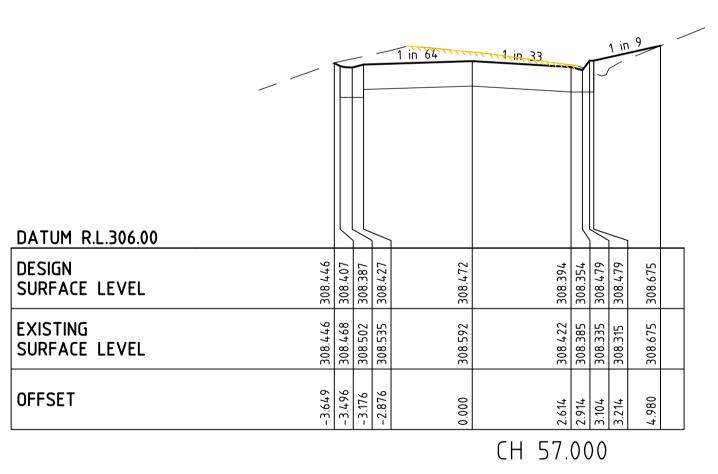
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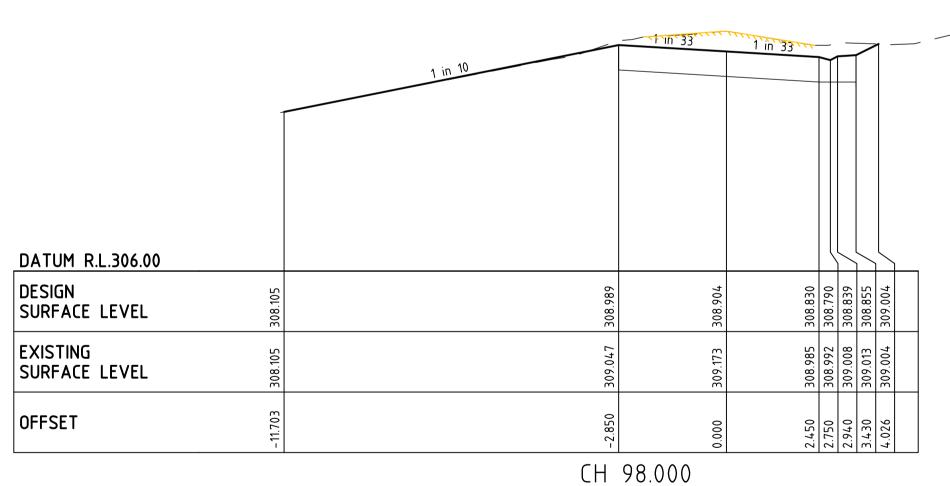
Curve no

E 1 - E 2 E 3 - E 4 E 5 - E 6











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309.334 309.237 309.287 309.315 309.340

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309.019 309.020 309.018 309.018 309.030

1 in 33 ···

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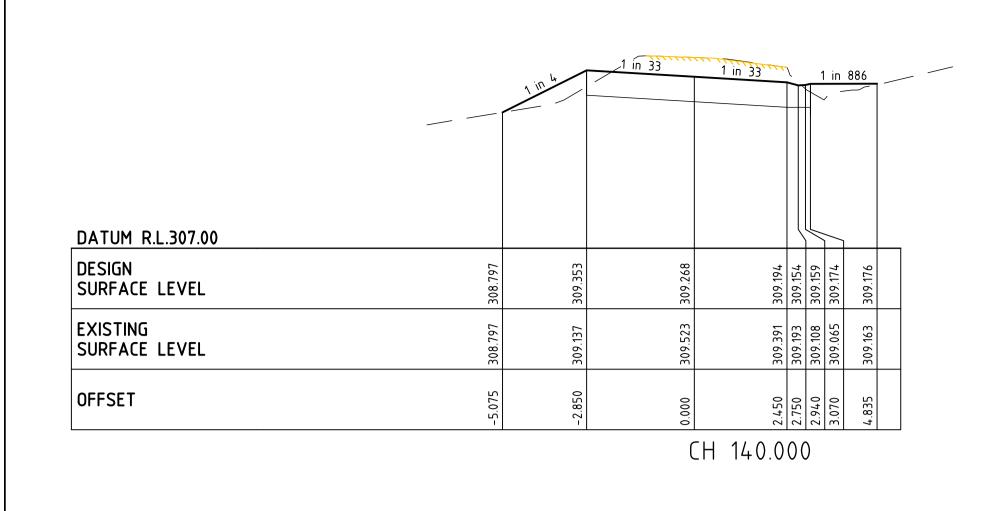
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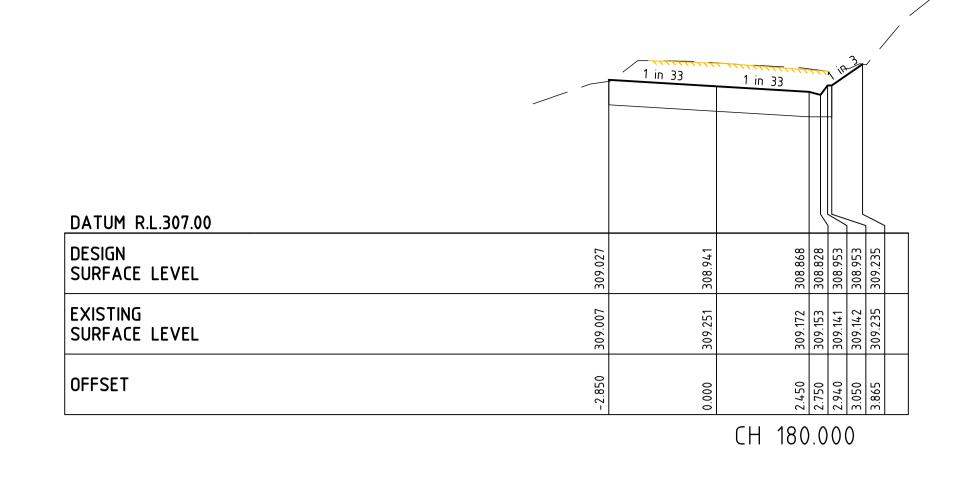
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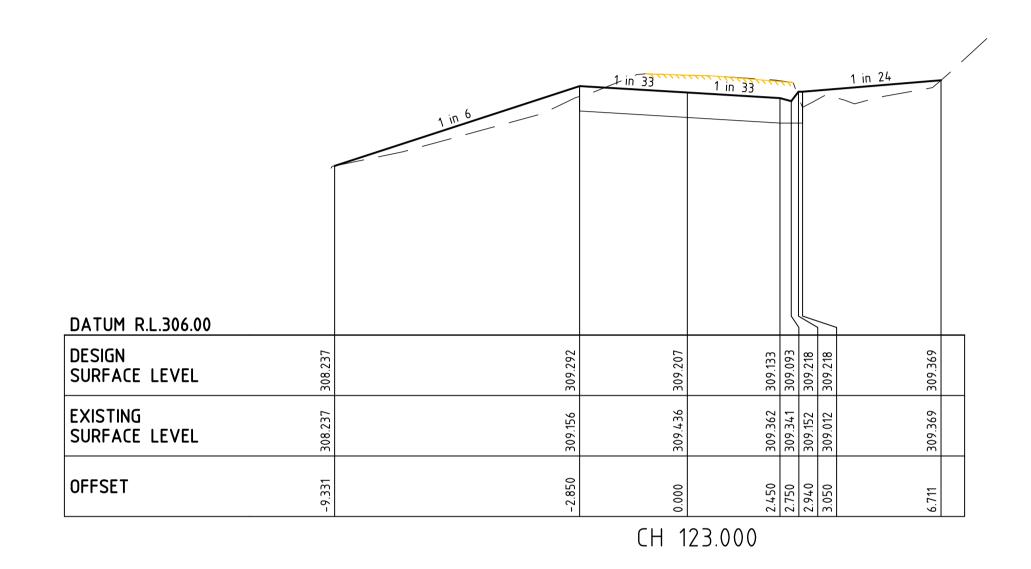
DATE	REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTINGS	EX. — W THIS DOCUMENT/DRAWING IS PROP. — PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	AR	SCALE AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-09
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07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	SLWLK MAINS AND ENTITIES	PROP. ———— FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF	CHECKED	SC A	APPROVED SC		INNES ROAD, GEMBROOK	SHEET - 9 OF 16
19.10.2021	D	ISSUED FOR APPROVAL		GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS				Craig Civil Design	INNES KOAD, GEMBROOK	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. ————————————————————————————————————	DATE	DEC 2020	DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANA	NAGERS STATION ST TO GEMBROOK-LAUNCHING PLACE	RD RD
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	PROP. ————— DAMAGES OR OTHER REMEDIES MAY	DATUM		MELWAYS 105 A11	A.C.N. 159 212 245	ROAD CROSS SECTIONS - SHEET 1	CCD REF. NO 20022 A1
18.01.2023	н		PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	EX.	DATUM		REFERENCE 105A11	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 599 mail@craigcivil.com.au FAX: 599	775 1330	on: C:\12d\Projects\20-022\20022-00 RevH.dwa: Editor: aroseman



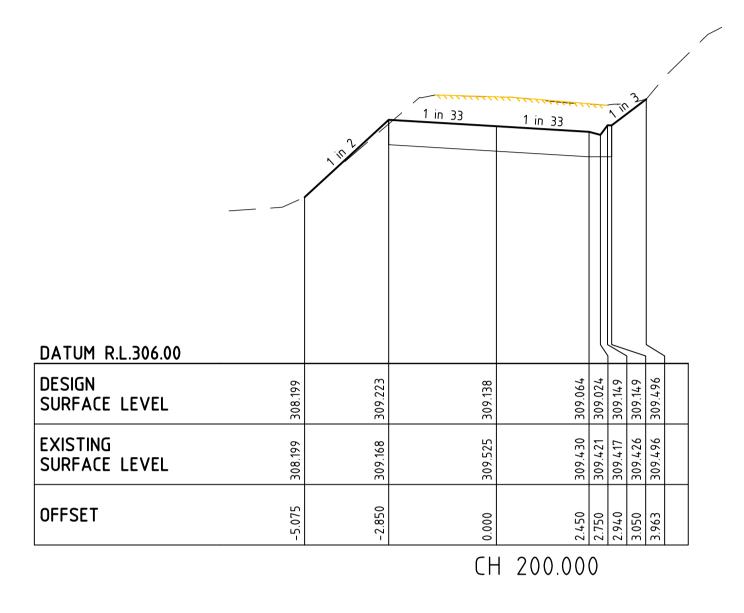
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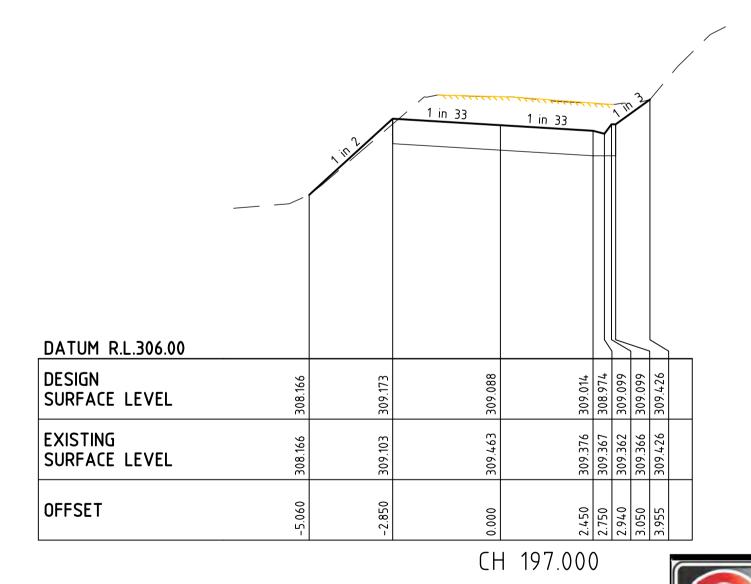


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EXISTING SURFACE LEVEL	308.747	309.023	309.332	309.043	308.988 308.990 309.148
OFFSET	-4.557	-2.850	0.000	2.450	2.940 3.050 3.766
			СН	160.000	



		1 in h	1 in 33	1 in 33			_
DATUM R.L.307.00							L
DESIGN SURFACE LEVEL	308.913	309.258	309.173	309.099	309.184	309.184 309.350	
EXISTING SURFACE LEVEL	308.913	309.144	309.419	309.347	309.162	309.190 309.350	
OFFSET	-4.230	-2.850	0.000	2.450	2.940	3.050 3.712	
			C	H 120.000)		

		1 in 7		1 in 33	1 in 33····			
DATUM R.L.306.00 DESIGN SURFACE LEVEL	308.220		309.295	309.209	309.136	309.096	309.221	309.111
EXISTING SURFACE LEVEL	30		309.307	309.490	309.197			
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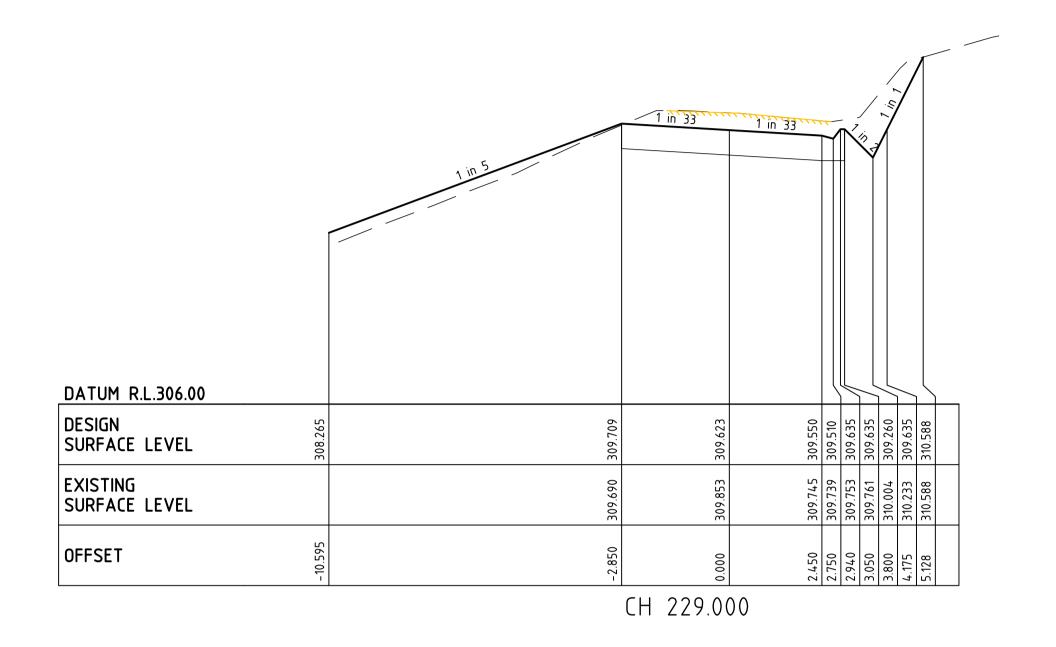


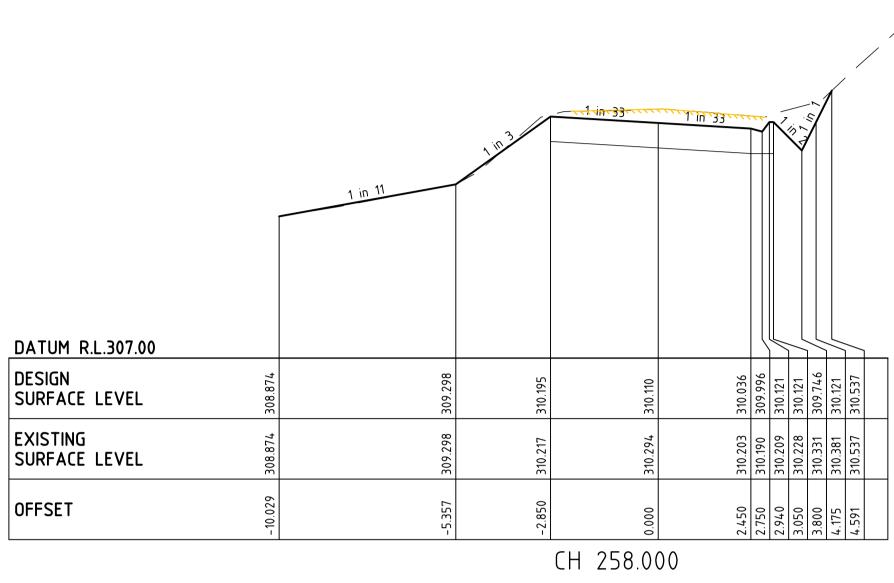
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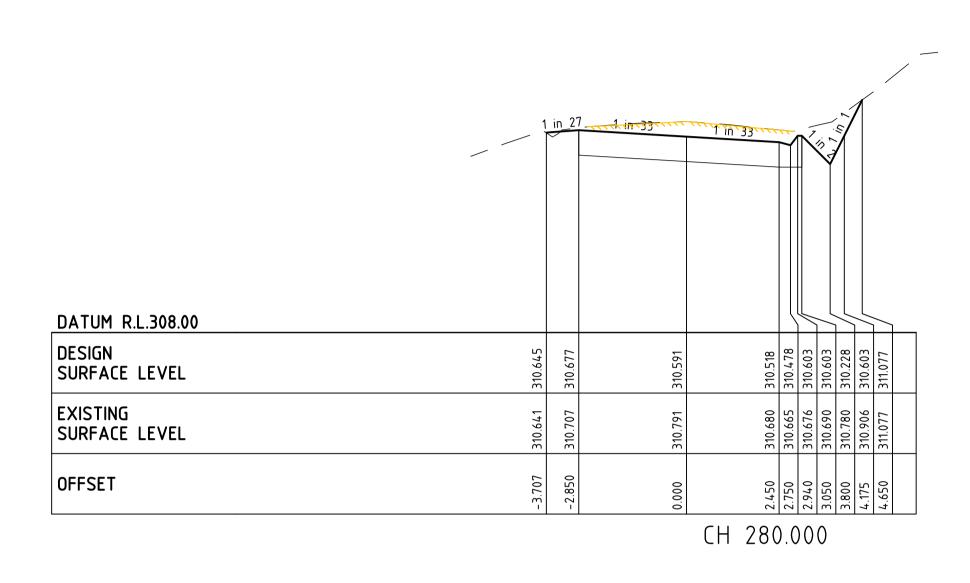
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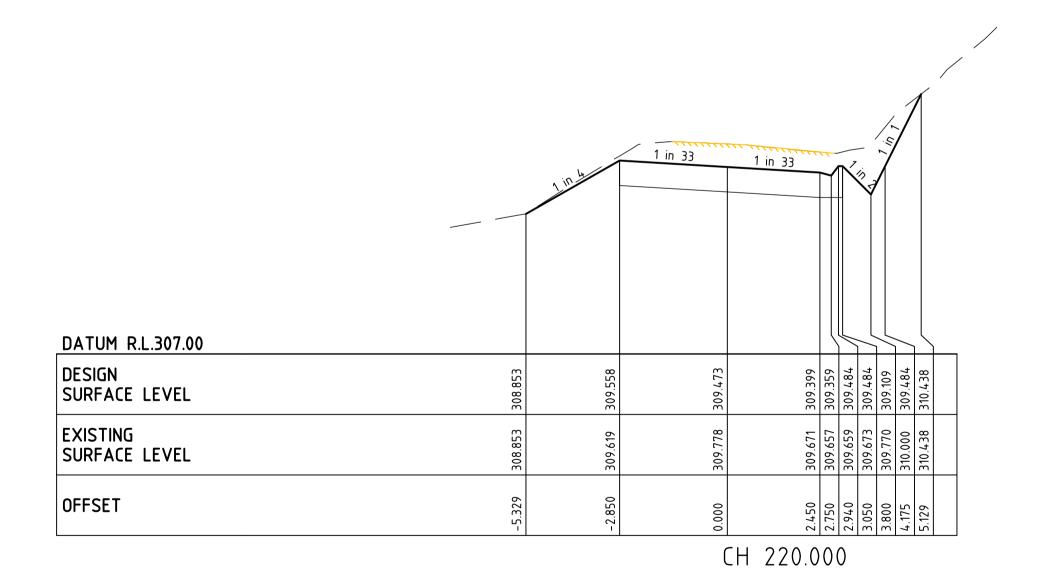
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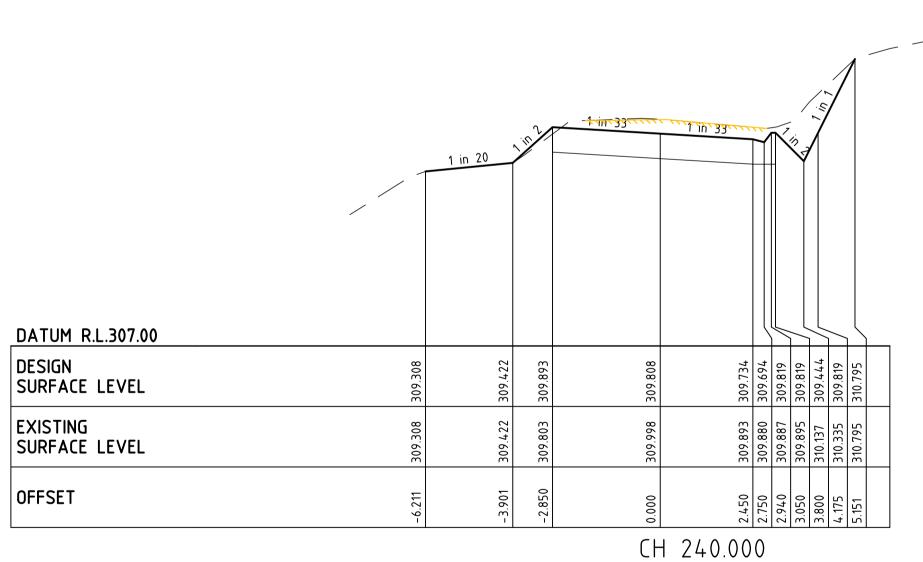
DATE RE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTING	S EX. — EM — EM — EM — O	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	AR	SCALE	AS SHOWN		CARDINIA SHIRE COUNCIL	
18.12.2020 E	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIE	S EX. —ENS—ENS—	LAW. COPYING IN ANY SHAPE OR	DATE	JULY 2020	20	713 3116 WIL		SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	= SEWER TIAIRS AND ENTITIE	PROP.	THE WRITTEN AUTHORISATION OF	CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK	SHEET - 10 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP.	CRAIG CIVIL DESIGN PTY. LTD. IS	D 4 T F	DEC 2020	DATE	DEC 2020	Craig Civil Design	4	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PIT	S EX. —ы —ы —ы	CIVIL PROCEEDINGS CLAIMING	DATE	DEC 2020	DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. — · — · S	DAMAGES OR OTHER REMEDIES MAY	DATUM	\ \HD	MELWAYS	105 A 11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 438	ROAD CROSS SECTIONS - SHEET 2	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. —:—·—o	FOUND COPYING THIS DOCUMENT.	DATOIT	AIID	REFERENCE	IODAII	mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: C:\12	 d\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman

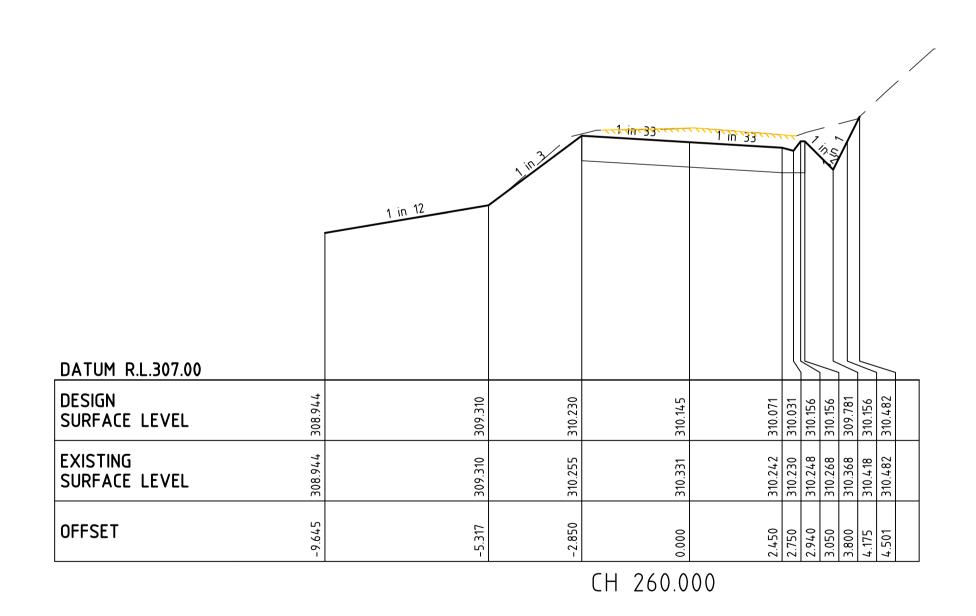














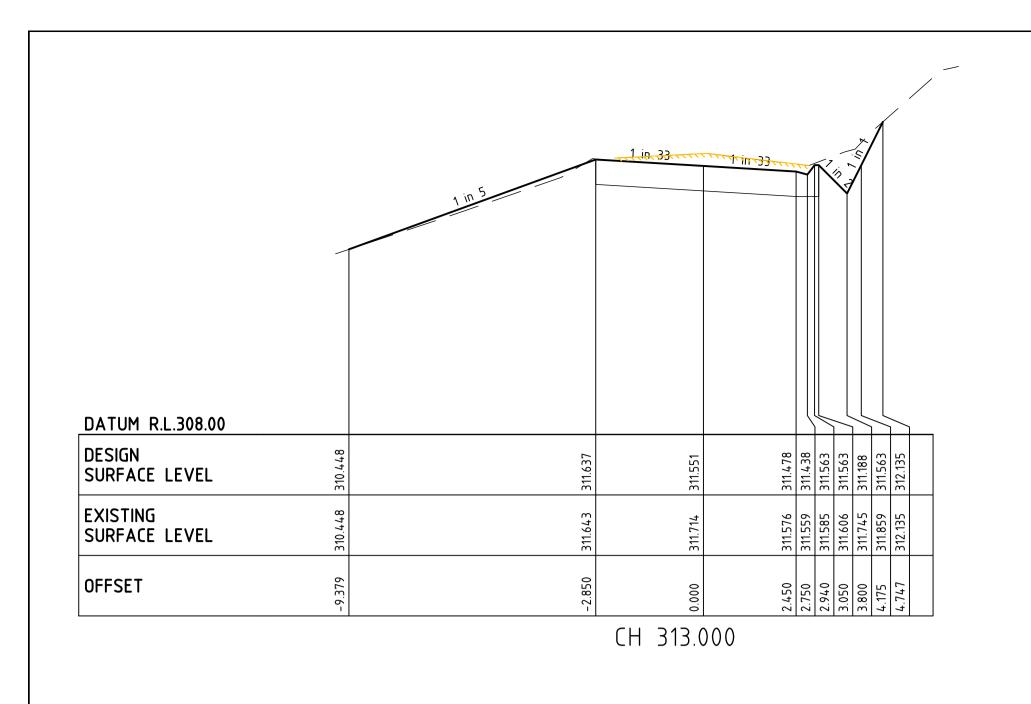
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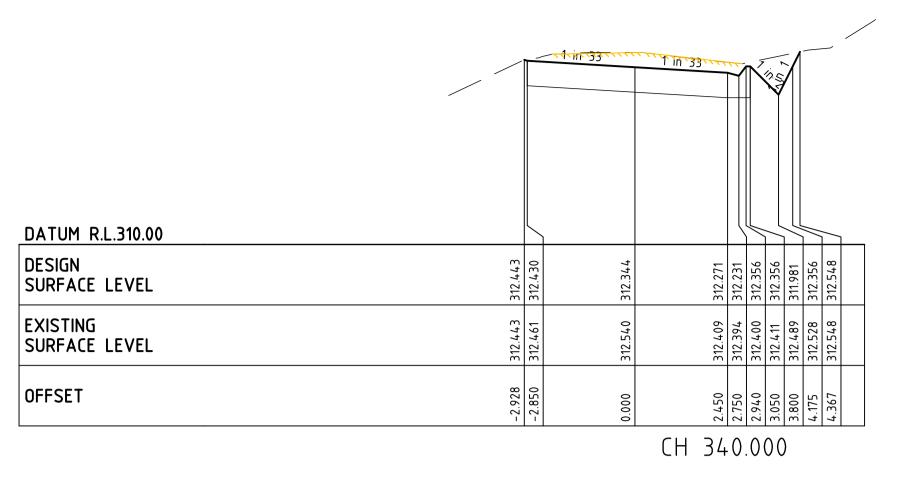
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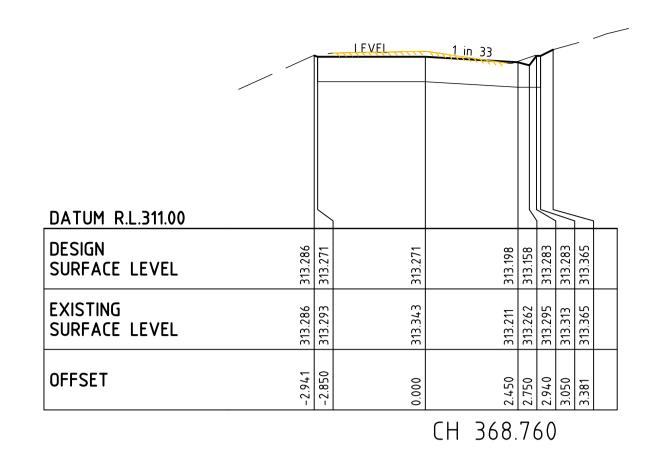
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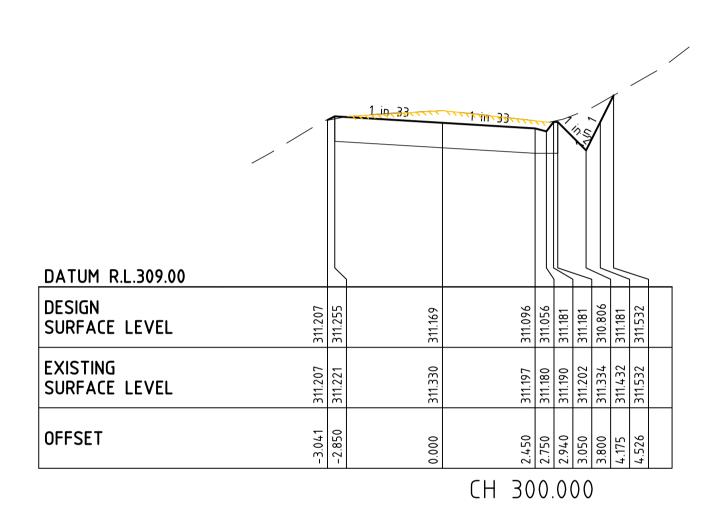
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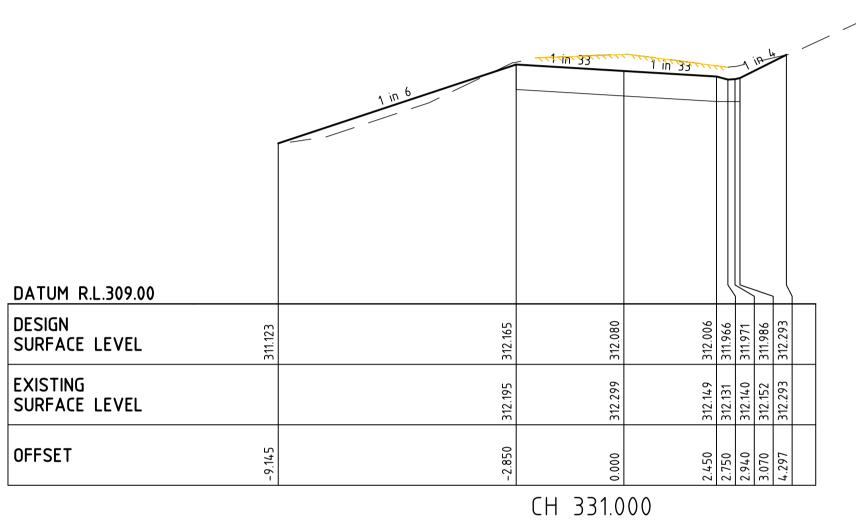
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15.11.2021	E	GEOMETRIC AMENDMENTS	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS	EX. STRICTLY PROHIBITED.	DATE	DEC 2020	DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	112 131311
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	TELECOTI CADELS AND FITS	PROP. — DAMAGES OR OTHER REMEDIES MAY	DATUM	ALID	MELWAYS 105 A 11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	ROAD CROSS SECTIONS - SHEET 3	CCD REF. NO 20022 A1
18.01.2023	Н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	EX. BE BROUGHT AGAINST PERSONS PROP. FOUND COPYING THIS DOCUMENT.	DATUM	AUD	REFERENCE 105A11	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388 mail@craigcivil.com.au FAX: 5995 5330		\Projects\20-022\20022-00 RevH.dwg; Editor: aroseman

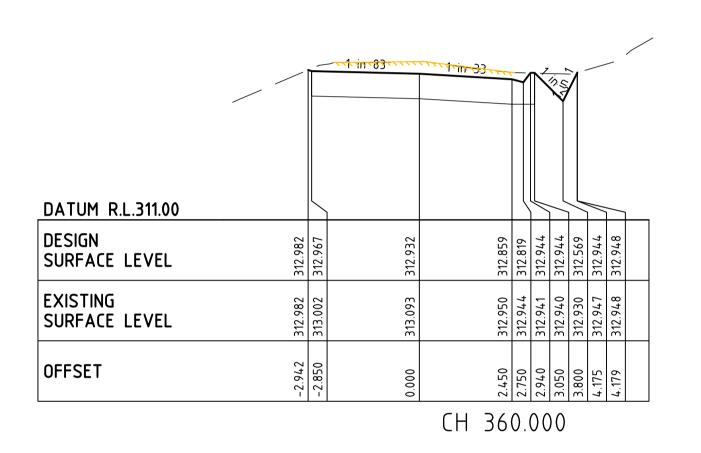


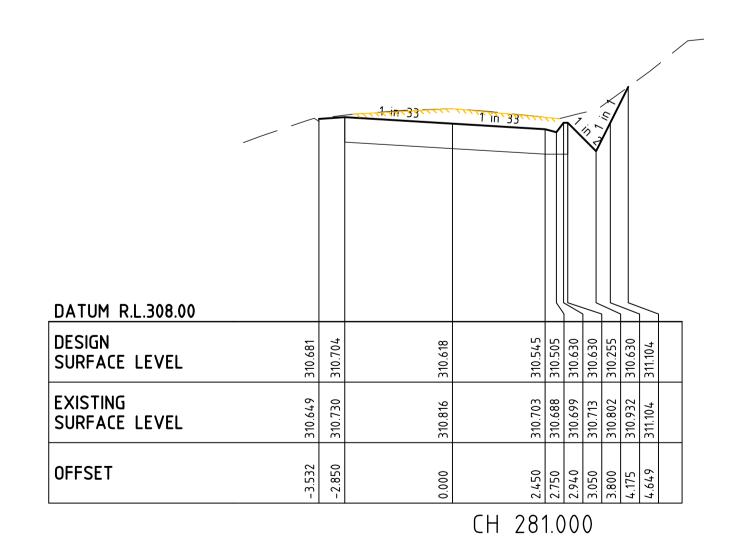


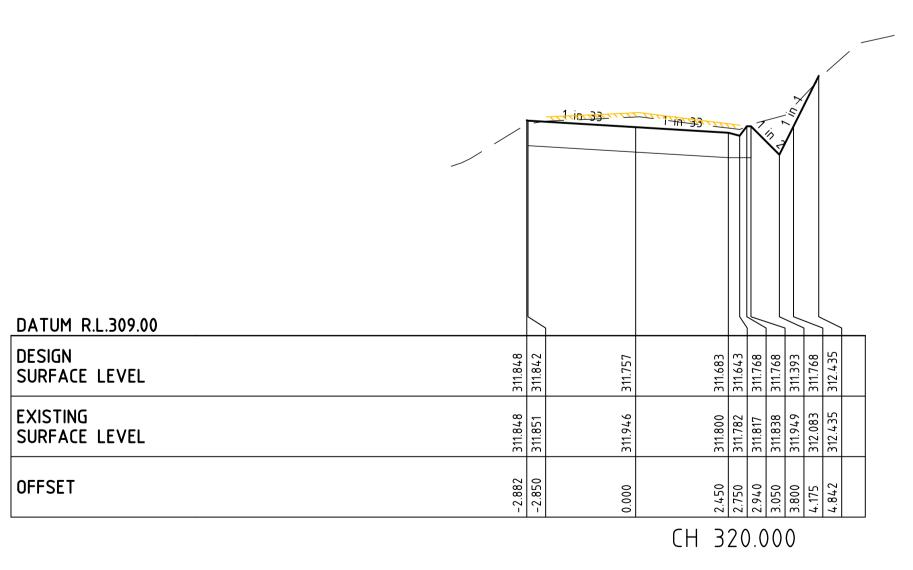


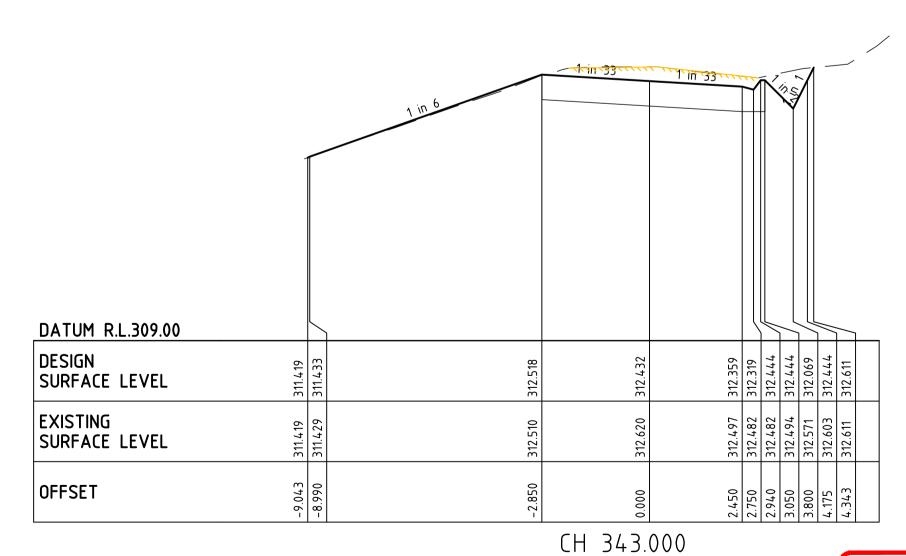












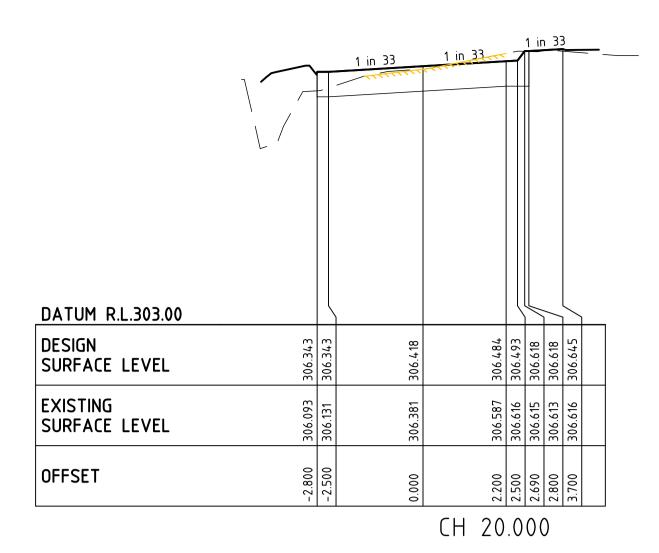


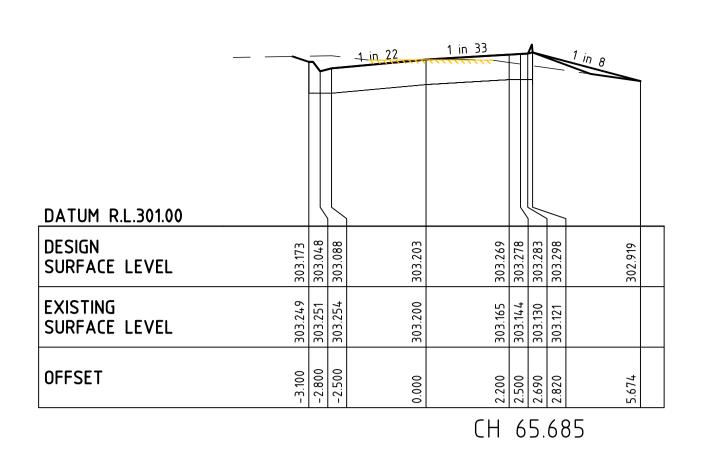
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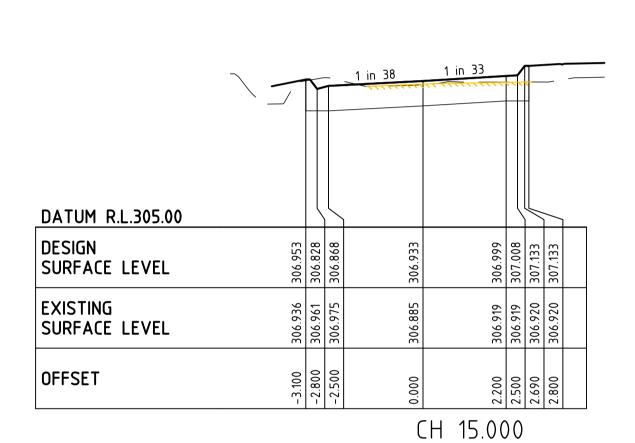
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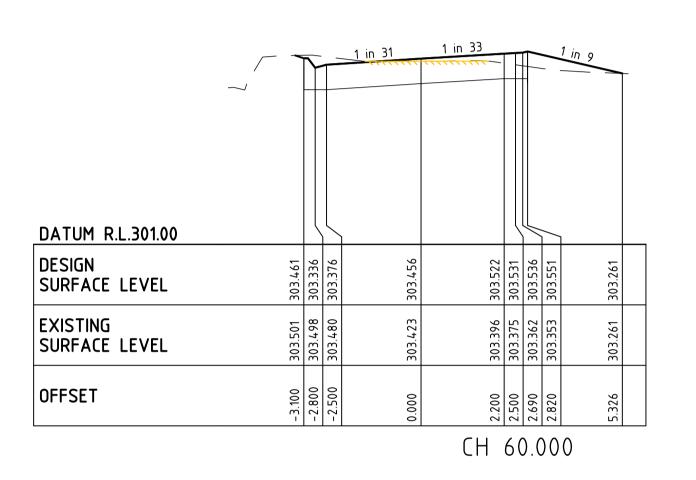
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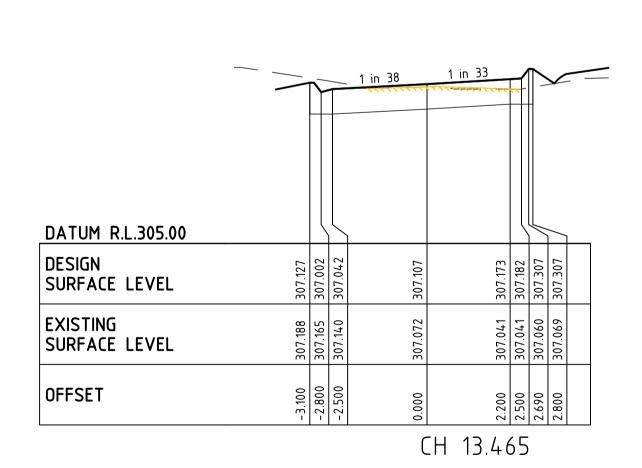
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18.12.2020	B PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES EX. LAW. COPYING IN ANY SHAPE OR	DATE JULY 202	0		SEALING OF THE DANDENONG RANGES	
07.07.2021	C COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL ======	PROP. ———— FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF	CHECKED SC	APPROVED SC		INNES ROAD, GEMBROOK	SHEET - 12 OF 16
19.10.2021	D ISSUED FOR APPROVAL		GAS MAINS AND PITS EX. CRAIG CIVIL DESIGN PTY. LTD. IS CRAIG CIVIL DESIGN PTY. LTD. IS	D. T	54.75	Craig Civil Design	·	REVISION - H
15.11.2021	E GEOMETRIC AMENDMENTS	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS EX. CIVIL PROCEEDINGS CLAIMING	DATE DEC 2020	DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	TE VISION II
21.01.2022	F ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	PROP. ————————————————————————————————————	DATUM AHD	MELWAYS 105 A 11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	ROAD CROSS SECTIONS - SHEET 4	CCD REF. NO 20022 A
18.01.2023	H COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS EX.	DATOM AND	REFERENCE	mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: C:\12d\	 Projects\20-022\20022-00 RevH.dwg; Editor: arosem

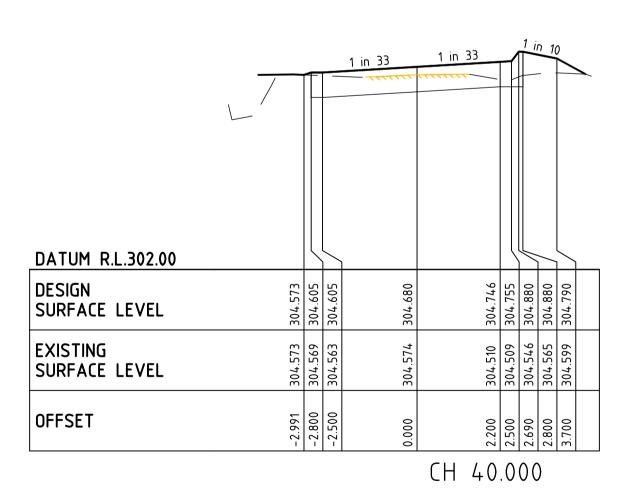














CROSS SECTIONS INNES ROAD (LANEWAY)

Horizontal scale 1:100 Vertical scale 1:50

FINAL	
ISSUED FOR CONSTRUCTION	

DATE REV	AMENDMENT	LEGEND WATER MAINS AND FITTIN	EX. ————————————————————————————————————	O AR SCALE AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-13
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07.07.2021 C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	PROP. ————— FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF CHECKED	SC APPROVED SC		INNES ROAD, GEMBROOK	SHEET - 13 OF 16
19.10.2021 D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS	DEC 2020 DATE DEC 2020	Craig Civil Design	i ·	REVISION - H
15.11.2021 E	GEOMETRIC AMENDMENTS	TELECOM CARLES AND DIT	STRICTLY PROHIBITED. EX. ————————————————————————————————————	DEC 2020 DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022 F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS - TELECOM CABLES AND PIT	PROP. —————— DAMAGES OR OTHER REMEDIES MAY EX. —————— BE BROUGHT AGAINST PERSONS DATUM	AHD MELWAYS 105A11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	ROAD CROSS SECTIONS - SHEET 5	CCD REF. NO 20022 A1
18.01.2023 H	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET ELEC. CABLES AND PITS	PROP. ————————————————————————————————————	REFERENCE NOTE	mail@craigcivil.com.au FAX: 5995 5330		

	1 2 3	4		5 6		7 8	9		10 11
PIPE CAPACITY FLOW VELOCITY PIPE DIAMETER GRADE	0.604m3/s 0.503m3/s 0.167m3/s 0.159m3/s 1.52m/s 1.44m/s 375mm 375mm 1:11.09 1:15.95	0.115m3/s 0.112m3/s 1.01m/s 375mm 1:300	0.115m3/s 0.106m3/s 0.96m/s 375mm	0.061m3/s 0.057m3/s 0.52m/s 375mm	0.111m3/s 0.048m3/s 0.68m/s 300mm	0.108m3/s 0.048m3/s 0.17m/s V1500x375mm 1:63.11	0.113m3/s 0.041m3/s 0.14m/s V1500x375mm 1:56.81	0.137m3/s 0.041m3/s 0.15m/s V1500x375mm 1:38.71	0.129m3/s 0.028m3/s 0.63m/s 300x150mm
DATUM RL DEPTH TO INVERT HGL LEVEL INVERT LEVEL FINISHED SURFACE EXISTING SURFACE	305.435 306.329 305.690 305.825 305.690 307.361 307.362 306.720 307.021 308.329 308.246 307.600 307.894 307.560 308.136 307.560 308.136	308.861 308.698 307.774 308.234 0.924 307.799 308.276 0.899		309.158 309.161 308.053 308.491 1.108 308.078 308.601 1.083 309.176 309.112 308.091 308.612 1.021 308.091 308.620 1.021		309.701 309.513 308.470 308.671 1.042 309.092 308.734 0.421 310.035 309.348 309.344 309.621 0.004 3 309.344 0.0004	310.504 309.982 309.923 310.178 0.059		312.216 312.241 311.481 311.720 0.760 311.481 311.722 0.760 312.380 312.380 311.922 312.019 0.458
CHAINAGE	000: 11.422	43.127 77. 49.	76.058	13.256 13.256 157.738	37.941	195.679 195.679 211.583	32.890	60.304	304.777



DENOTES CRUSHED ROCK BACKFILL

FINAL ISSUED FOR CONSTRUCTION

DATE	REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTING	THIS DOCUMENT/DRAWING IS PROPERTIES BY FEDERAL COPYRIGHT	DESIGNED	AR	SCALE	AS SHOWN		CARDINIA SHIRE COUNCIL	DRAWING NO CCD20022-14
18.12.2020	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	EX LAW. COPYING IN ANY SHAPE OR	DATE	JULY 2020) JCALL	713 3110 WIL		SEALING OF THE DANDENONG RANGES	
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	SEWER TIAIRS AND ENTITIES	THE WRITTEN AUTHORISATION OF	CHECKED	SC	APPROVED	SC		INNES ROAD, GEMBROOK	SHEET - 14 OF 16
19.10.2021	D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	GAS MAINS AND PITS	PROP. CRAIG CIVIL DESIGN PTY. LTD. IS	DATE	DEC 2020	DATE	DEC 2020	Craig Civil Design	·	REVISION - H
15.11.2021	E	GEOMETRIC AMENDMENTS		TELECOM CABLES AND PITS	EX. CIVIL PROCEEDINGS CLAIMING	DATE	DEC 2020	DATE	DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022	F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS		PROP. — DAMAGES OR OTHER REMEDIES MAY	DATUM	\ \AHD	MELWAYS	105 A 11	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1	CCD REF. NO 20022 A1
18.01.2023	н	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. —————— FOUND COPYING THIS DOCUMENT.	DATOIT	7110	REFERENCE	103/411	mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: C:\12d	

PIPE CAPACITY		<	0.088m3/s		- ().143m3/s	
FLOW			0.088m3/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	0.458	0.458		0.592	0.592		1.628
HGL LEVEL	312.019	312.060		312.938			313.021
nvert level	311.922	311.922		312.750	312.750		
FINISHED SURFACE	312.380			313.342			14.564
EXISTING SURFACE	0			313.361	-		314.245 314.564 312.936
	111	I		m	-		8

		4)		(1	5)		
0.114m3/s 0.045m3/s			240m3/s 037m3/s		_	72m3/ 13m3/	
		0.			0.01		s
0.045m3/s		0.	037m3/s		0.01	I3m3/	s
0.045m3/s 0.64m/s		0.	037m3/s).23m/s		0.01	13m3/)8m/s	s
0.045m3/s 0.64m/s 300mm		0.	037m3/s).23m/s 450mm		0.01	13m3/ 08m/s 50mm	s
0.045m3/s 0.64m/s 300mm 1:94.46 300.00	272	0.	037m3/s).23m/s 450mm	→ →	0.01	13m3/ 08m/s 50mm	S
0.045m3/s 0.64m/s 300mm 1:94.46 300.00	308.123 1.272	0.	037m3/s).23m/s 450mm	→ →	0.01	13m3/ 08m/s 50mm	S
0.045m3/s 0.64m/s 300mm	307.719 308.123 1.272	0.	037m3/s).23m/s 450mm	→ →	0.01	13m3/ 08m/s 50mm	S
0.045m3/s 0.64m/s 300mm 1:94.46 300.00	308.991 307.719 308.123 1.272	0.	037m3/s).23m/s 450mm	→ →	0.01	13m3/ 08m/s 50mm	S
0.045m3/s 0.64m/s 300mm 1:94.46 300.00	308.995 308.991 307.719 308.123 1.272	0.	037m3/s).23m/s 450mm		0.01	13m3/ 08m/s 50mm	s



FINAL ISSUED FOR CONSTRUCTION

DATE	REV	AMENDMENT	<u>LEGEND</u>
18.12.2020	В	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL
07.07.2021	С	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL
19.10.2021	D	ISSUED FOR APPROVAL	EVICTING DRAING AND DITC
15 11 2021	F	GEOMETRIC AMENDMENTS	EXISTING DRAINS AND PITS

ISSUED FOR CONSTRUCTION

COUNCIL AMENDMENTS

PROPOSED DRAINS AND PITS =-

PROPOSED PROPERTY INLET

DENOTES CRUSHED ROCK BACKFILL

21.01.2022 F

18.01.2023 H

	WATER MAINS AND FITTINGS	EX. — 6:W — 6:W — 0	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	AR	SCALE	AS SHOWN
	SEWER MAINS AND ENTITIES	LA.		DATE	JULY 2020		
=		PROP. — 6	FORM, WHOLE OR PART WITHOUT THE WRITTEN AUTHORISATION OF	CHECKED	SC	APPROVED	sc
_	GAS MAINS AND PITS	PROP. — •	CRAIG CIVIL DESIGN PTY. LTD. IS STRICTLY PROHIBITED.	DATE	DEC 2020	DATE	DEC 2020
	TELECOM CABLES AND PITS	EX. —ы—ы— PROP. —т—т— ■	CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY			MELWAYS	
	ELEC. CABLES AND PITS	EX. — t — t — OI	BE BROUGHT AGAINST PERSONS FOUND COPYING THIS DOCUMENT.	DATUM	AHD	REFERENCE	105A11

CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS
A.C.N. 159 212 245

PHONE: 5995 4388 FAX: 5995 5330

P.O. BOX 1207, NARRE WARREN 3805 mail@craigcivil.com.au CARDINIA SHIRE COUNCIL

SEALING OF THE DANDENONG RANGES
INNES ROAD, GEMBROOK

STATION ST TO GEMBROOK-LAUNCHING PLACE RD

DRAINAGE LONGITUDINAL SECTIONS - SHEET 2

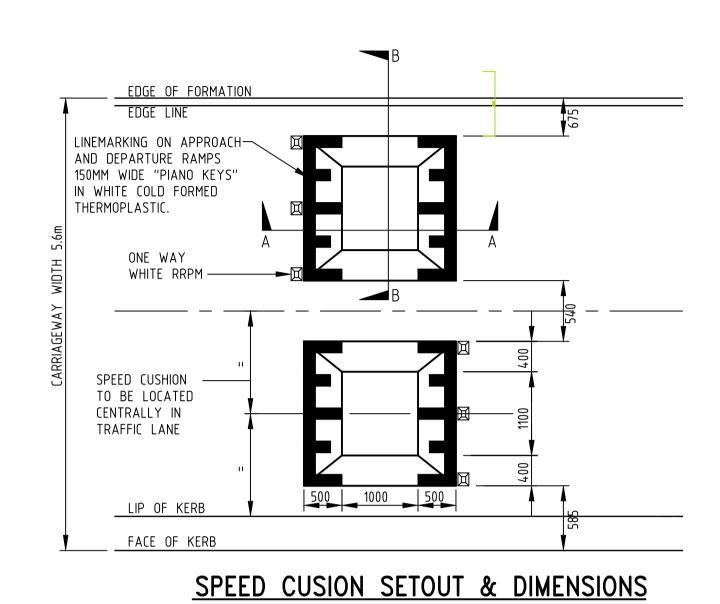
DRAWING NO. - CCD20022-15

SHEET - 15 OF 16

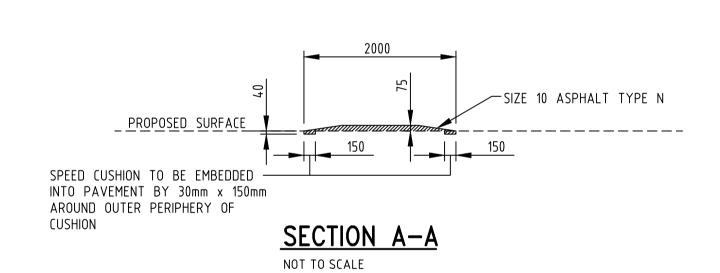
REVISION - H

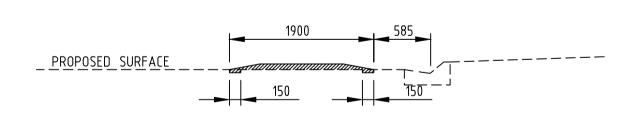
SHEET 2 CCD REF. NO. - 20022 A1

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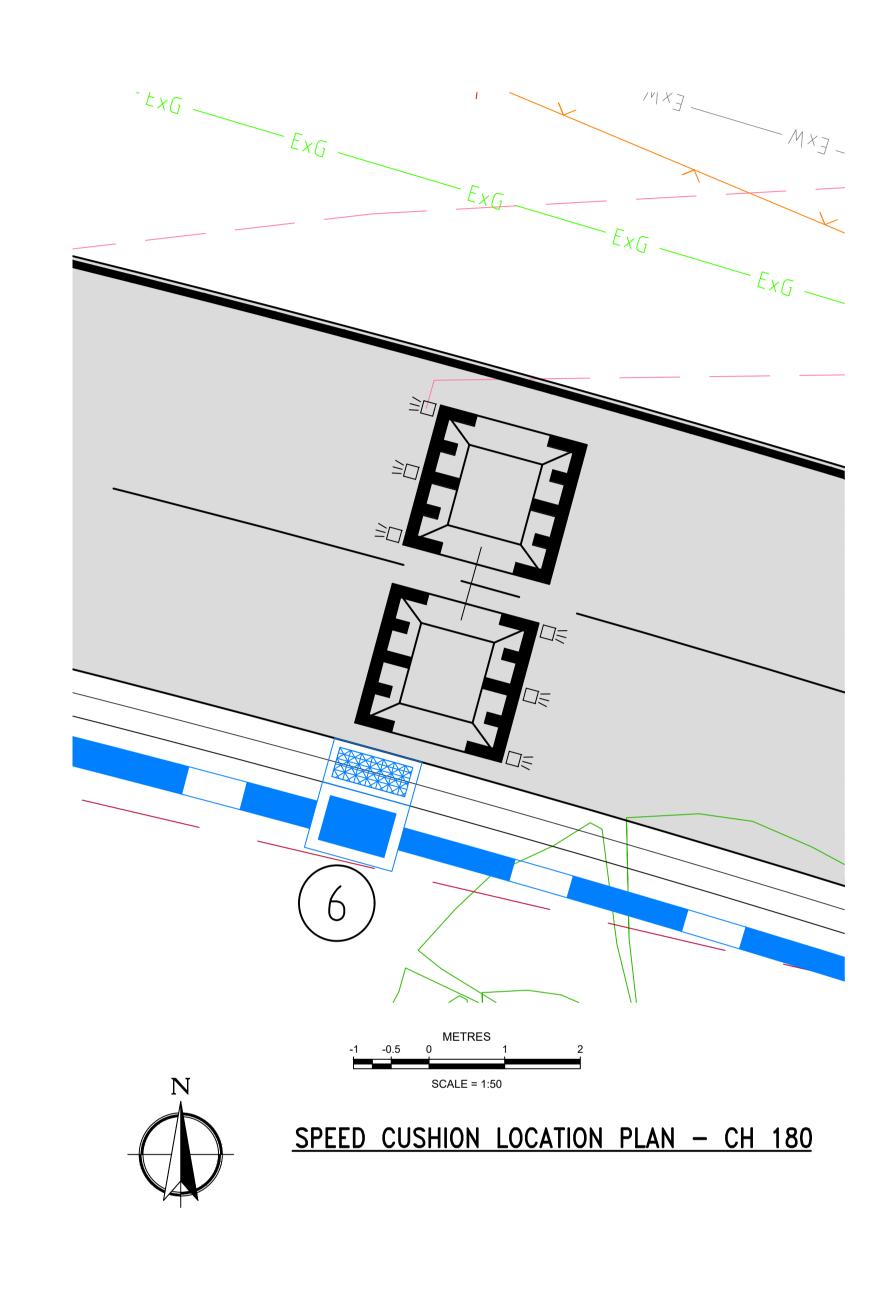


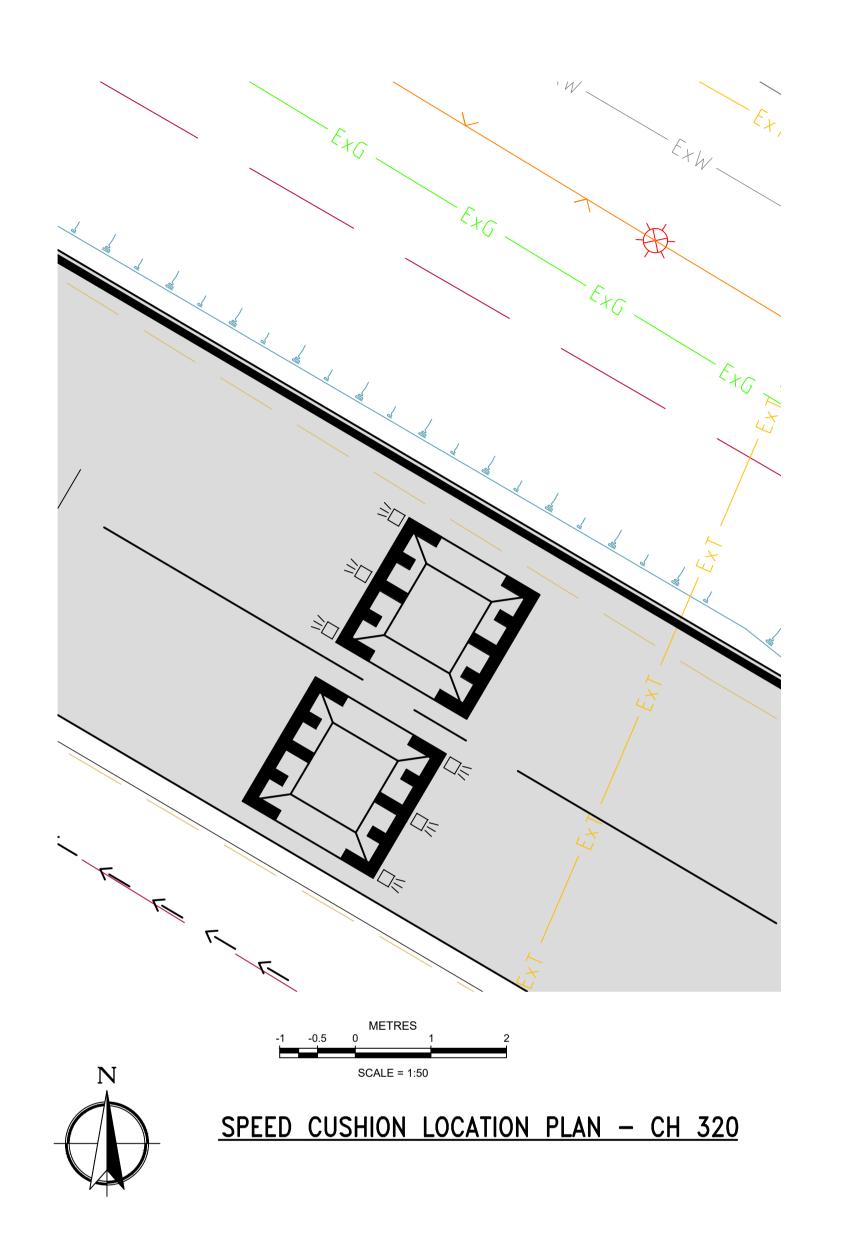
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SECTION B-B
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18.12.2020 B	PRELIMINARY ISSUE	EXISTING KERB AND CHANNEL SEWER MAINS AND I	ENTITIES EX. — 65 — 65 — LAW. COPYING IN ANY SHAPE OR	DATE JULY	7 2020		SEALING OF THE DANDENONG RANGES	
07.07.2021 C	COMMUNITY CONSULTATION ISSUE	PROPOSED KERB AND CHANNEL	THE WRITTEN AUTHORISATION OF	CHECKED S	SC APPROVED SC		INNES ROAD, GEMBROOK	SHEET - 16 OF 16
19.10.2021 D	ISSUED FOR APPROVAL	EXISTING DRAINS AND PITS	CRAIG CIVIL DESIGN PTY. LTD. IS	DATE DEC	2022 DATE DEC 2022	Craig Civil Design	<u>'</u>	REVISION - H
15.11.2021 E	GEOMETRIC AMENDMENTS	TELECOM CARLES AN	STRICTLY PROBIBITED. AND PITS EX. ———————————————————————————————————	DATE DEC	2020 DATE DEC 2020	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	STATION ST TO GEMBROOK-LAUNCHING PLACE RD	
21.01.2022 F	ISSUED FOR CONSTRUCTION	PROPOSED DRAINS AND PITS	DAMAGES OR OTHER REMEDIES MAY EX. ————————————————————————————————————		AHD MELWAYS 105A11	A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	SPEED CUSHION DETAIL PLAN	CCD REF. NO 20022 A1
18.01.2023 H	COUNCIL AMENDMENTS	PROPOSED PROPERTY INLET ELEC. CABLES AND I	PITS EX. BE BROUGHT AGAINST PERSONS PROP. FOUND COPYING THIS DOCUMENT.	DATOM A	REFERENCE 103A11	mail@craigcivil.com.au FAX: 5995 5330		Projects\20-022\20022-00 RevH.dwg; Editor: aroseman