

BARRETTS ROAD, LANGWARRIN SOUTH - ROAD RECONSTRUCTION

NOTES

GENERAL

- ALL WORK ARE TO BE CARRIED OUT IN ACCORDANCE WITH FRANKSTON CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
- EXISTING LEVELS ARE TAKEN FROM SURVEY POINTS, CONTOURS SHALL BE USED AS A GUIDE TO SURFACE LEVELS ONLY AS THESE ARE INTERPOLATED.
- THE LOCATION OF EXISTING SERVICES IS BASED ON INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND IS APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL SERVICES BEFORE COMMENCING WORKS AND PROTECT THE SAME FOR THE DURATION OF THE WORKS
- APPROPRIATE CONSTRUCTION METHODS SHALL BE ADOPTED TO ENSURE THAT THERE IS NO DAMAGE OR DISTURBANCE TO EXISTING ASSETS AND SERVICES.
- ALL WORKS ARE TO INCLUDE THE REINSTATEMENT OF ALL EXISTING ASSETS AFFECTED/DAMAGED BY THE CIVIL WORKS AND CLEAN UP TO THE SATISFACTION OF THE SUPERINTENDENT AND RELEVANT AUTHORITIES. THIS INCLUDES BUT IS NOT LIMITED TO, LANDSCAPING, SIGNS, FENCES, PAVEMENTS AND KERBS.
- CONCRETE SHALL BE PLACED, COMPACTED AND CURED IN ACCORDANCE WITH AS 3600.
- TRAFFIC MANAGEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT 2004 AND AS1742.3. ALL SIGNAGE (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
- ALL WORK PRACTICES SHALL COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND ALL RELEVANT REGULATIONS AND CODES OF SITE EROSION CONTROL AND MINIMISATION MEASURES SHALL BE ADOPTED AT ALL TIMES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AUTHORITY'S ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
- ALL SIGNAGE IS TO BE PLACED AND ERECTED IN ACCORDANCE WITH THE VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 AND COUNCIL STANDARD DRAWINGS.
- IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE ANY EXISTING ROAD SIGNAGE REMOVED FOR CONSTRUCTION
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- ALL DISTURBED LANDSCAPED AREAS ARE TO BE REINSTATED TO COUNCILS SATISFACTION.
- AGRICULTURAL DRAINS ARE TO BE LAID AS SPECIFIED AND CONNECTED TO DRAINAGE PITS OR AS SPECIFIED.
- ALL DISTURBED AREAS ARE TO BE COVERED WITH TOPSOIL TO A DEPTH OF 100mm TO THE SATISFACTION OF THE ENGINEER.
- BACKFILL ALL TRENCHES BENEATH ROAD PAVEMENT AND VEHICLE CROSSINGS WITH CLASS 2 F.C.R.
- DRAINAGE PIPES SHALL BE CLASS 2 REINFORCED CONCRETE (RRJ) OR CLASS 2 FIBRE REINFORCED CONCRETE (RRJ) UNLESS OTHERWISE SPECIFIED.

SITE

- IT IS THE CONTRACTORS RESPONSIBILITY TO TRANSFER ANY TBMS THAT MAY BE AFFECTED BY THE WORKS PRIOR TO THEIR REMOVAL.
- THE CONCRATOR SHALL MAINTAIN EXISTING ACCESS POINTS TO PROPERTIES OR PROVIDE TEMPORARY ACCESS AS REQUIRED, FOR THE DURATION OF WORKS.
- HOUSE DRAIN CONNECTIONS WHERE EXISTING ARE TO BE:
 - CONNECTED TO DRAINAGE PITS WHERE PITS EXIST OR ARE PROPOSED WITHIN 2.0m OF THE HOUSE DRAIN ALIGNMENT;
 - CONNECTED TO TOP OF DRAINAGE PIPE AS PER F.C.C. SD243 WHERE EXISTING OR WHERE PROPOSED DRAINAGE FRONTS THE HOUSE DRAIN ALIGNMENT;
 - CONNECTED TO PROPOSED KERB AND CHANNEL AS PER F.C.C. SD245 USING AN APPROVED KERB ADAPTOR IN ALL OTHER CASES, UNLESS OTHERWISE SPECIFIED..

LINE MARKING AND SIGNAGE:

- ALL LINE MARKING AND SIGNAGE IS TO BE COMPLETED IN ACCORDANCE WITH AS2890.1 AND AS2890.6

EARTHWORKS

- ALL DISTURBED AREAS OUTSIDE THE WORKS ARE TO BE REINSTATED TO MATCH THE EXISTING CONDITIONS.
- REMOVAL OF VEGETATION OTHER THAN IS SHOWN ON THE PLAN IS TO BE DONE UNDER COUNCIL DIRECTION.
- ALL TREES SHOWN THUS  ARE TO BE REMOVED.
- THE REMOVAL OF TREES INCLUDES ALL ROOT MATTER PARTICULARLY IN PROPOSED PAVEMENT AREAS.
- TREES REMOVED IN CONSTRUCTION AREA SHALL BE BACKFILLED IN 200mm LAYERS WITH FILL CONSISTENT TO SITE SOIL CLASSIFICATION OR ROAD BASE MATERIAL CLASSIFICATION AND COMPACTED TO ROAD SUB-BASE SPECIFICATIONS.

TELSTRA NOTES

- CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE ALTERATION/RELOCATION/REPAIR OF TELSTRA ASSETS IF AFFECTED OR DAMAGED BY PROPOSED WORKS.
- CONTRACTOR MUST BE IN POSSESSION OF AND HAVE ONSITE AT ALL TIMES, COPIES OF TELSTRA ASSET PLANS COVERING THE EXTENT OF WORKS (AVAILABLE BY CALLING 1100 "DIAL BEFORE YOU DIG").
- CONTRACTOR MUST ADVISE NETWORK INTEGRITY (PHONE: 0417 310 535) A MINIMUM OF 48 HOURS PRIOR TO COMMENCING EARTHWORKS.
- NON DESTRUCTIVE (WATERJET) POTHOLE AND PROVE METHODOLOGY IS RECOMMENDED WHEN CONSTRUCTION IS WITHIN 2.0m OF ANY TELSTRA ASSET.

SEDIMENT CONTROL

- CONTRACTORS SHALL ENSURE THAT ALL WORKS COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL"-EPA PUBLICATION NO. 175.
- CONTRACTORS SHALL INSTALL MEASURES TO ENSURE ANY SEDIMENT OR LITTER GENERATED AS A RESULT OF THE WORKS IS CONTAINED ON THE SITE. THESE MEASURES SHALL INCLUDE DEVICES SUCH AS SILT FENCES WHICH ARE TO BE LOCATED AT ALL SOURCES OF SEDIMENT SUCH AS EARTHWORKS STOCKPILED, ENDS OF ROAD EXCAVATION, DRAINAGE INLETS ETC.
- CONTRACTORS SHALL ENSURE THAT VEHICLES ASSOCIATED WITH THE WORKS DO NOT DEPOSIT DIRT OR RUBBISH ONTO ROADS. ANY MATERIAL DEPOSITED SHALL BE PROMPTLY CLEANED UP WITHOUT CONTAMINATING ANY WATERWAY.
- THE CONTRACTORS SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND LITTER CONTROL DEVICES THROUGHOUT THE DURATION OF THE PROJECT AND THE CONTRACT MAINTENANCE PERIOD.

SERVICING

- THE CONTRACTOR SHALL STRICTLY COMPLY WITH "NO GO ZONE" CLEARANCE REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL ASSETS/CABLES. FOR ANY OPERATION WHICH ENROACHES ON THE 3.0M "NO GO ZONE", THE CONTRACTOR SHALL OBTAIN A WRITTEN PERMIT TO WORK FROM WORKSAFE. FOR FURTHER INFORMATION ON "NO GO ZONE" CLEARANCE REQUIREMENTS, REFER TO CURRENT WORKSAFE VICTORIA PUBLICATIONS (WWW.WORKSAFE.VIC.GOV.AU)

OCCUPATIONAL HEALTH AND SAFETY.

IN THE DESIGN AND DEVELOPMENT OF THESE PLANS, JCA LAND CONSULTANTS HAVE, AS FAR AS REASONABLY PRACTICABLE, COMPLIED WITH THOSE REQUIREMENTS OF "DESIGNERS" AS PER THE OHS ACT 2004 AND OHS REGULATIONS 2007.

JCA LAND CONSULTANTS, FOR THE PURPOSES OF THE OHS ACT 2004 AND OHS REGULATIONS 2007, ARE NOT IN ANY WAY DEEMED THE PRINCIPAL CONTRACTOR, OWNER OR EMPLOYER WITH RESPECT TO THIS PROJECT.

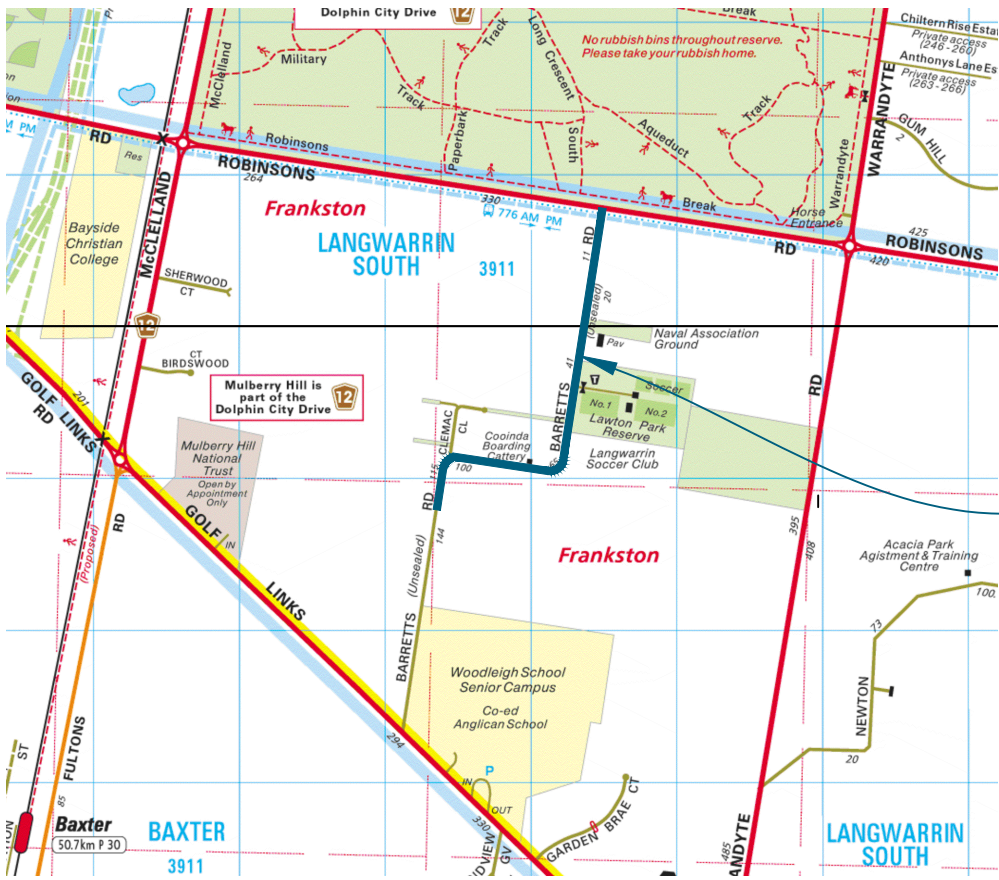
ALL OHS CONSTRUCTION COMPLIANCE REQUIREMENTS IN THE EXECUTION OF THESE PLANS ARE THE SOLE RESPONSIBILITY OF THE NOMINATED AND AUTHORISED ENTITY AS PER:

- SECTION 21 & 22 OF THE OHS ACT 2004
- PART 5 "CONSTRUCTION" AND OTHER RELEVENT SECTIONS OF THE OHS REGULATIONS 2007

JCA LAND CONSULTANTS RECOMMENDS THAT THE DEVELOPER AND/OR NOMINATED AND AUTHORISED ENTITY SEEK PROFESSIONAL OHS ADVICE IN ALL MATTERS OF CONSTRUCTION SAFETY PRIOR TO CONSTRUCTION.

SHEET INDEX

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CWP4191/C201	Overall Plan	03
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CWP4191/C514	Barretts Road Cross-Sections - Sheet 14 of 14	04
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CWP4191/C602	Barretts Road Kerb C-D and Slow Points 4-5 Detail Plans and Longitudinal Sections	03
CWP4191/C603	Lawton Reserve Secondary Access and Kerb L Detail Plan and Longitudinal Sections	03
CWP4191/C604	Lawton Reserve Primary Access and Kerb I Detail Plans and Longitudinal Sections	03
CWP4191/C605	Kerb J and K Detail Plans and Longitudinal Sections	03
CWP4191/C606	Slow Points 1-3 and 6 Detail Plans	03
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SITE OF WORKS

LOCALITY PLAN

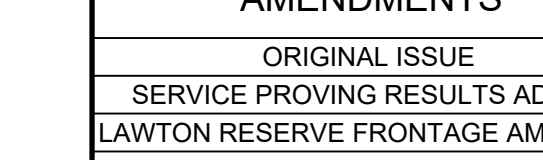
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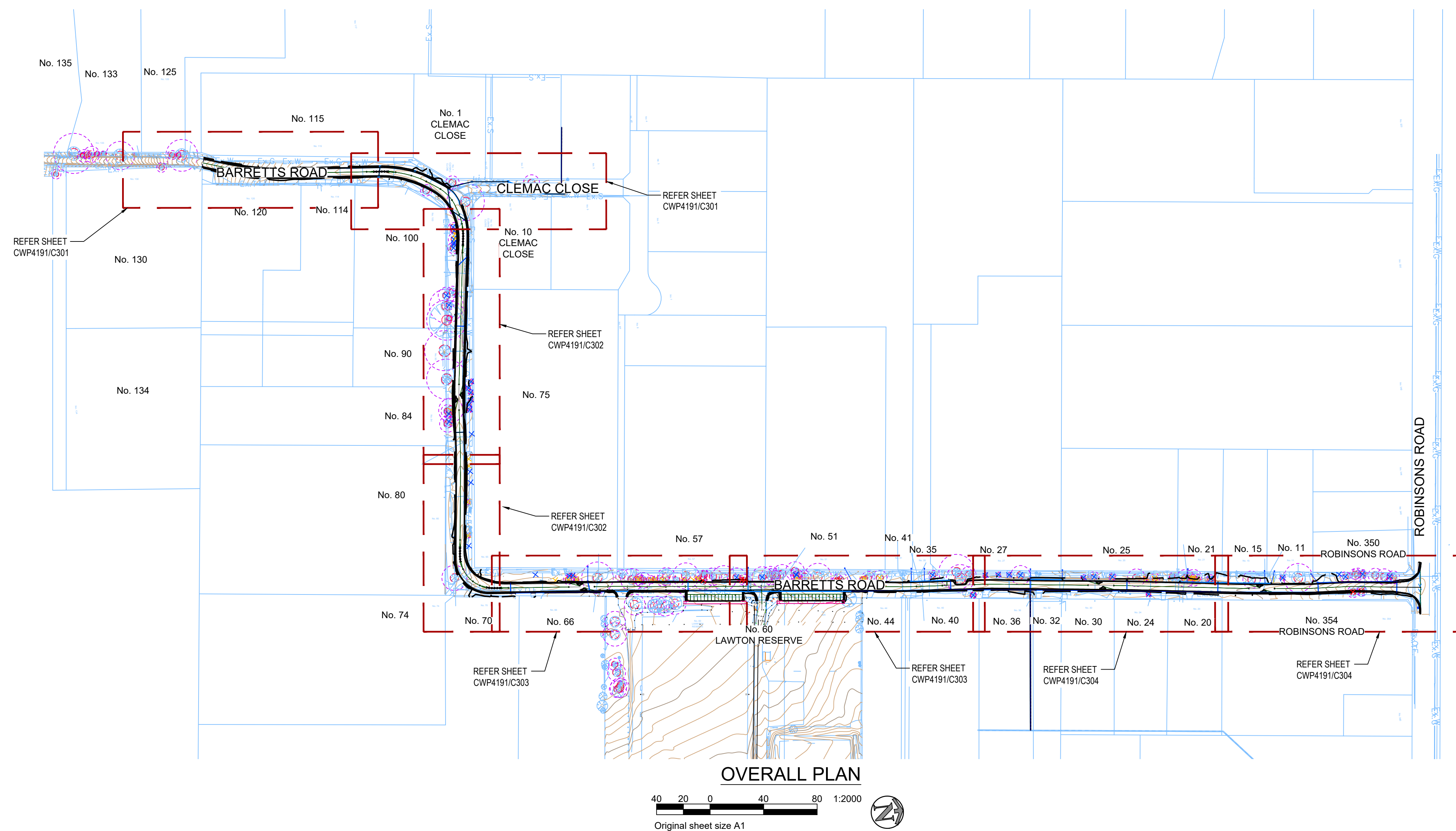
TEMPORARY BENCH MARK SETOUT

TBM I.D.	TBM Type	Easting	Northing	R.L. (AHD)
A	Spike in Nature Strip	340420.92	5772738.24	91.80
B	Spike in Nature Strip	340426.80	5772666.20	90.00
C	Spike in Nature Strip	340410.57	5772611.52	89.07
D	Spike in Nature Strip	340406.27	5772519.81	88.71
E	Spike in Nature Strip	340402.30	5772489.31	88.65
F	Spike in Nature Strip	340391.59	5772412.39	88.76
G1	Mickey Pin in edge of bitumen	340440.54	5772261.42	90.18
G2	Rivet in Pit	340125.27	5772064.33	92.16
H	Nail in join	340055.91	5772134.38	89.80
I	Nail in join	340049.31	5772084.14	91.08
J	Spike in Nature Strip	340042.54	5772066.62	91.60
K	Spike in Nature Strip	340020.01	5772015.85	91.41
L	Spike in Nature Strip	340011.28	5771927.34	90.15
M	Roof nail in nature strip	339983.74	5771730.47	77.28

CONSTRUCTION ISSUE

CONSTRUCTION ISSUE

LEGEND											AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DRAWING INDEX, NOTES AND LOCALITY PLAN																							
	3 ASPECT LANTERN (200mm)		MAST ARM (OUTREACH AS INDICATED)		PED. PUSH BUTTON & LANTERN		INTERNALLY ILLUMINATED SIGN		EXISTING STREET LIGHTING LANTERN			PROPOSED STREET LIGHTING LANTERN		ORIGINAL ISSUE	19-12-19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C1.dwg																								
	DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		RUBBISH BIN		NEW PEDESTAL		NEW JOINT USE POLE		UNITED ENERGY POLE			600mm DIA. CONDUIT JUNCTION PIT		300mm DETECTOR PIT		SERVICE PROVING RESULTS ADDED	18-06-20	01	2																									
	SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		GRADED PIT		FENCE		TRAFFIC SIGNAL CONTROLLER		EXISTING DETECTOR LOOP		WATER METER		WATER VALVE		TELSTRA PILLAR		MAJOR TELSTRA PIT		MINOR TELSTRA PIT		GAS VALVE		ELECTRICITY (UNDERGROUND)		ELECTRICITY (OVERHEAD)		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL		EXISTING KERB		PROPOSED KERB		LAWTON RESERVE FRONTAGE AMENDED	03-09-20	02	3	DESIGN	TB (JCA)	DATUM AHD			
	CONSTRUCTION ISSUE		CONSTRUCTION ISSUE (2)		TREE INFORMATION UPDATED		DESIGN CHECKED		APPROVED BY C.W.C.		CONTRACT No.		SCALE AS SHOWN		DRAWING No.		Rev. No.	CWP4191/C101			05																							
	DATE / /		APPROVED BY Infrastructure Manager		DATE / /		DATE / /		DATE / /		DATE / /		DATE / /		DATE / /		DATE / /																											



WARNING

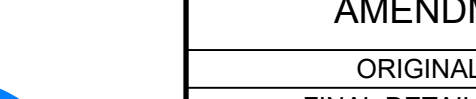
BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

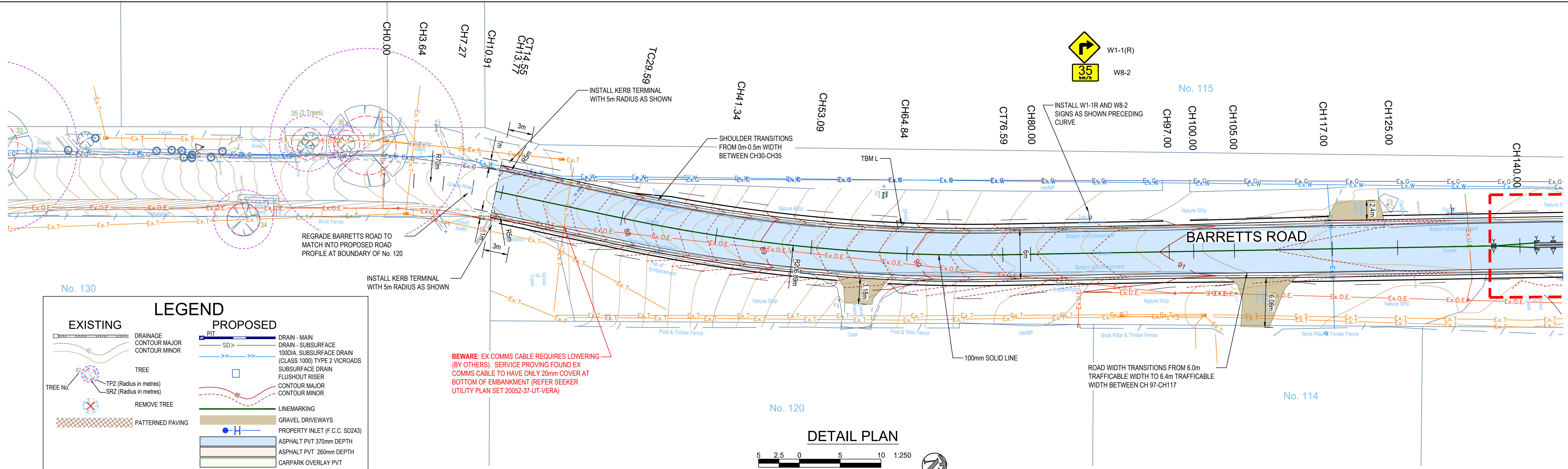


CONSTRUCTION ISSUE

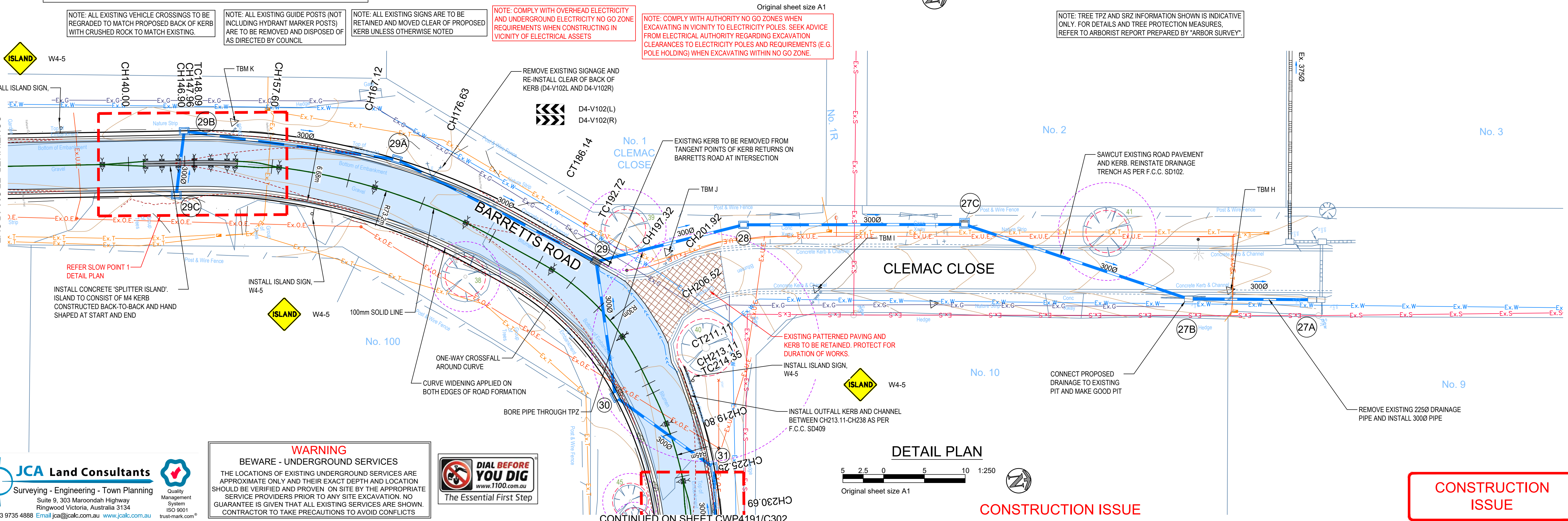
CONSTRUCTION ISSUE

LEGEND											AMENDMENTS				DATE			BY			No.			INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION OVERALL PLAN				SCALE		AS SHOWN		DRAWING No.		Rev. No.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		NEW PEDESTAL		WATER METER			WATER VALVE		STORMWATER (EXISTING)	19-12-19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C2.dwg																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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JCA Land Consultants

Surveying - Engineering - Town Planning

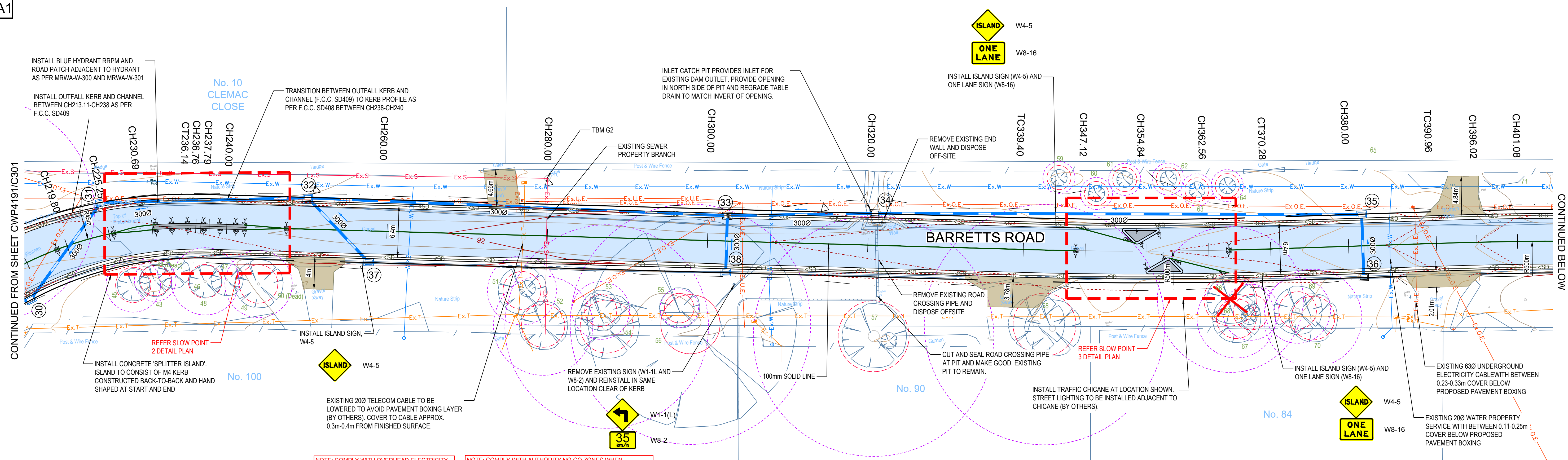
Suite 9, 303 Maroonah Highway
Ringwood Victoria, Australia 3134

Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

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AMENDMENTS				INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION		
ORIGINAL ISSUE	19-12-19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C3.dwg	DETAIL PLAN - SHEET 1 OF 4		
SERVICE PROVING RESULTS ADDED	18-06-20	01	2	DESIGN	TB (JCA)	DATUM	AHD			
LAWTON RESERVE FRONTAGE AMENDED	03-09-20	02	3	DESIGN	TB (JCA)	COUNCIL APPROVAL	MEETING No. / /	SCALE	AS SHOWN	DRAWING No.
CONSTRUCTION ISSUE	18-10-22	03	4	SURVEY	JCA	CONTRACT No.				
CONSTRUCTION ISSUE (2)	25-10-22	04	5	DESIGN	MD (JCA)	APPROVED BY	C.W.C.	DATE	/ /	05
TREE INFORMATION UPDATED	12-01-23	05	6	CHECKED	MD (JCA)	APPROVED BY	Infrastructure Manager			
			7	APPROVED BY	C.W.C.					
			8							
			9							
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			12							



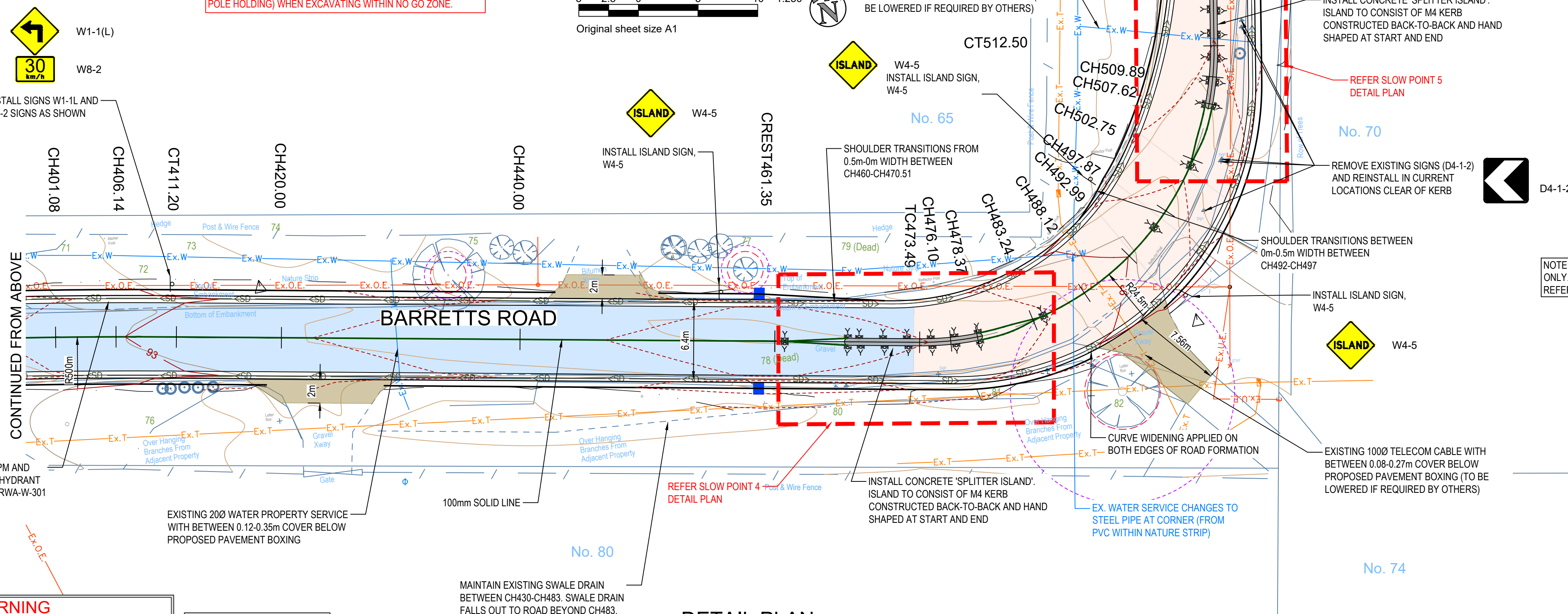
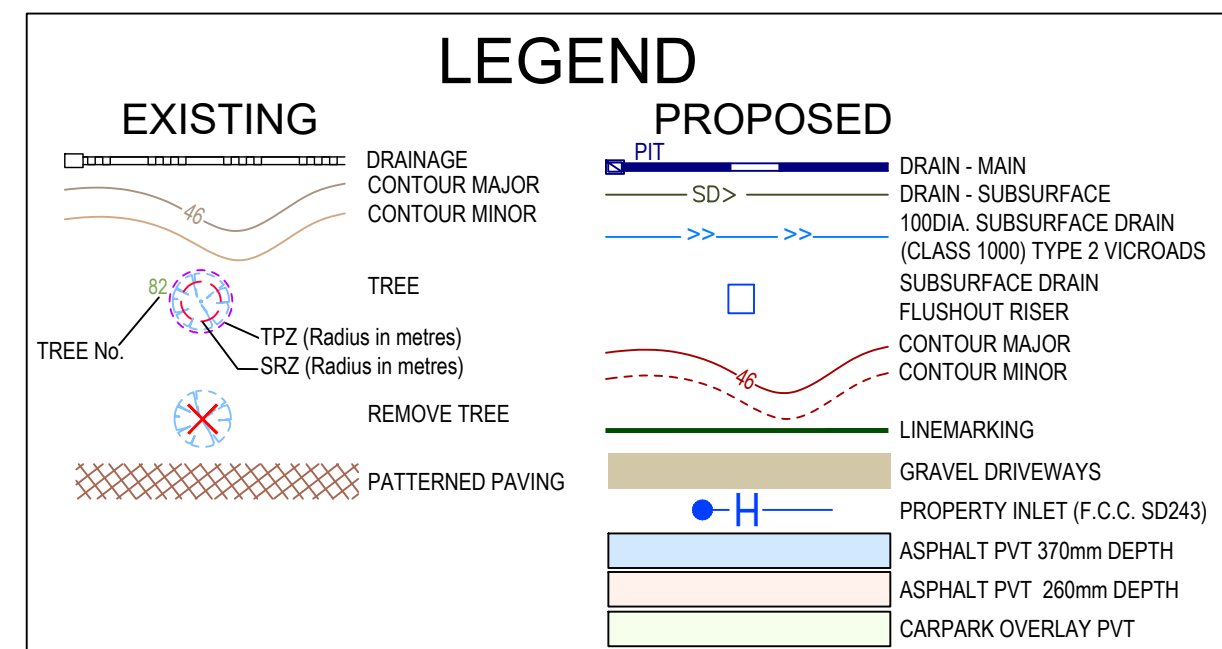
NOTE: ALL EXISTING VEHICLE CROSSINGS TO BE
REGRADED TO MATCH PROPOSED BACK OF KERB
WITH CRUSHED ROCK TO MATCH EXISTING.

NOTE: ALL EXISTING GUIDE POSTS (NOT INCLUDING HYDRANT MARKER POSTS) ARE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY COUNCIL

NOTE: COMPLY WITH OVERHEAD ELECTRICITY AND UNDERGROUND ELECTRICITY NO GO ZONE REQUIREMENTS WHEN CONSTRUCTING IN VICINITY OF ELECTRICAL ASSETS

NOTE: COMPLY WITH AUTHORITY NO GO ZONES WHEN EXCAVATING IN VICINITY TO ELECTRICITY POLES. SEEK ADVICE FROM ELECTRICAL AUTHORITY REGARDING EXCAVATION CLEARANCES TO ELECTRICITY POLES AND REQUIREMENTS (E.G. POLE HOLDING) WHEN EXCAVATING WITHIN NO GO ZONE.

NOTE: ALL EXISTING SIGNS ARE TO BE
RETAINED AND MOVED CLEAR OF PROPOSED
KERR UNLESS OTHERWISE NOTED

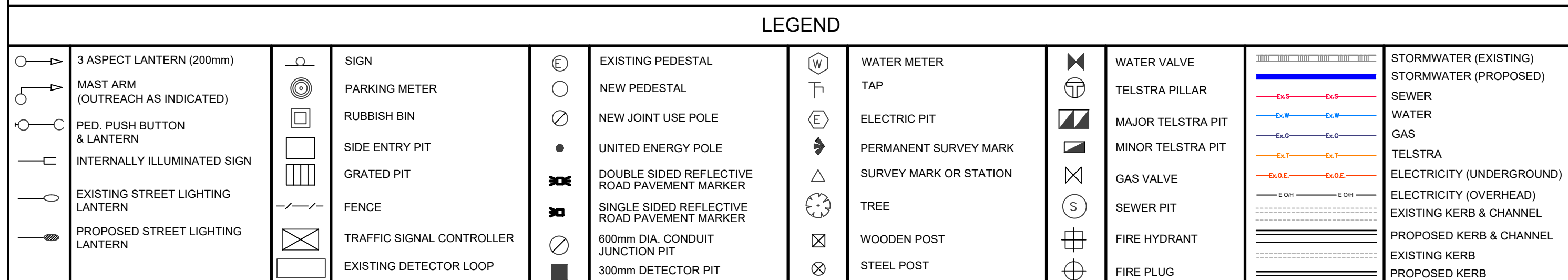


NOTE: TREE TPZ AND SRZ INFORMATION SHOWN IS INDICATIVE ONLY. FOR DETAILS AND TREE PROTECTION MEASURES, REFER TO ARBORIST REPORT PREPARED BY "ARBOR SURVEY"

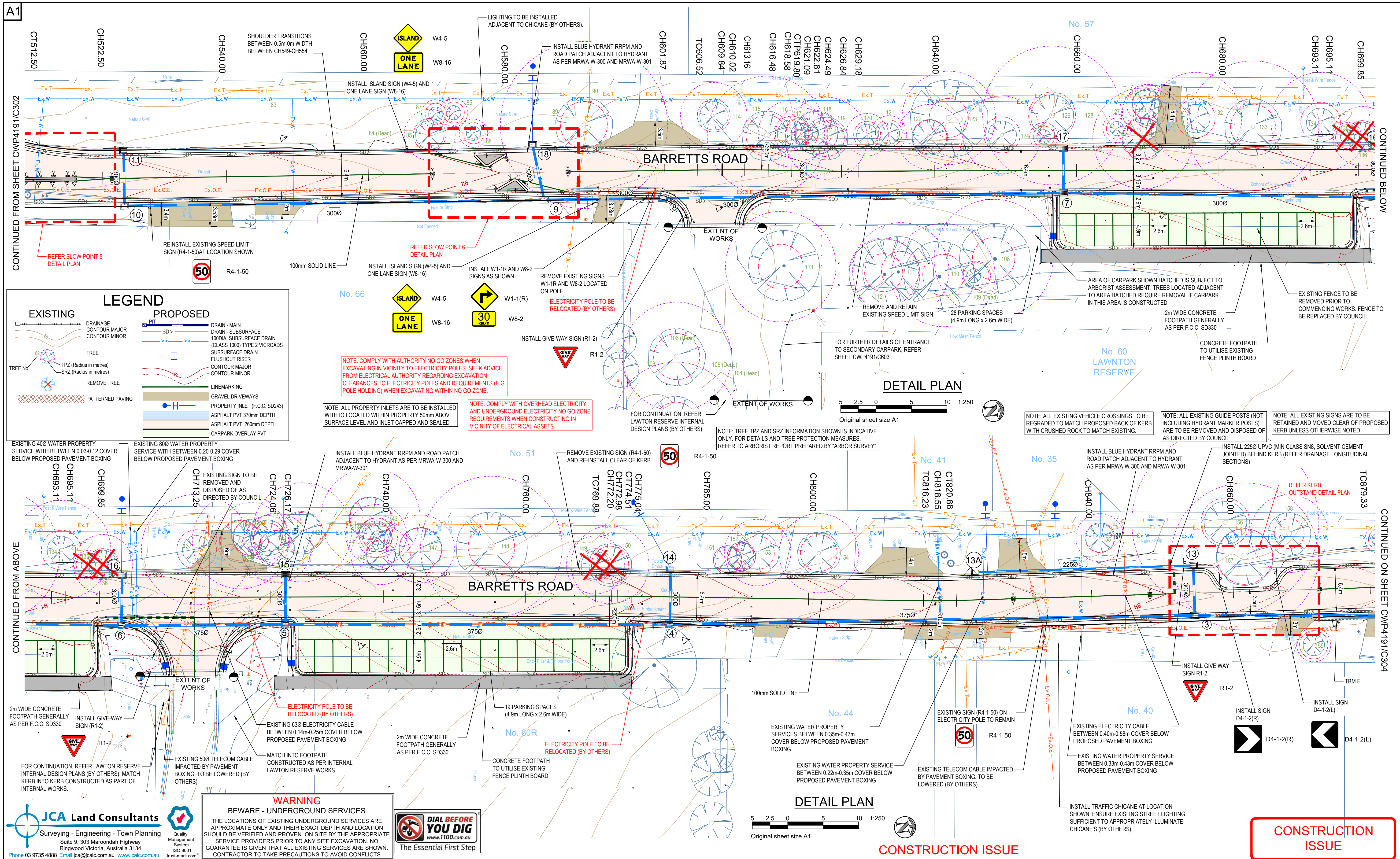


WARNING
BEWARE - UNDERGROUND SERVICES

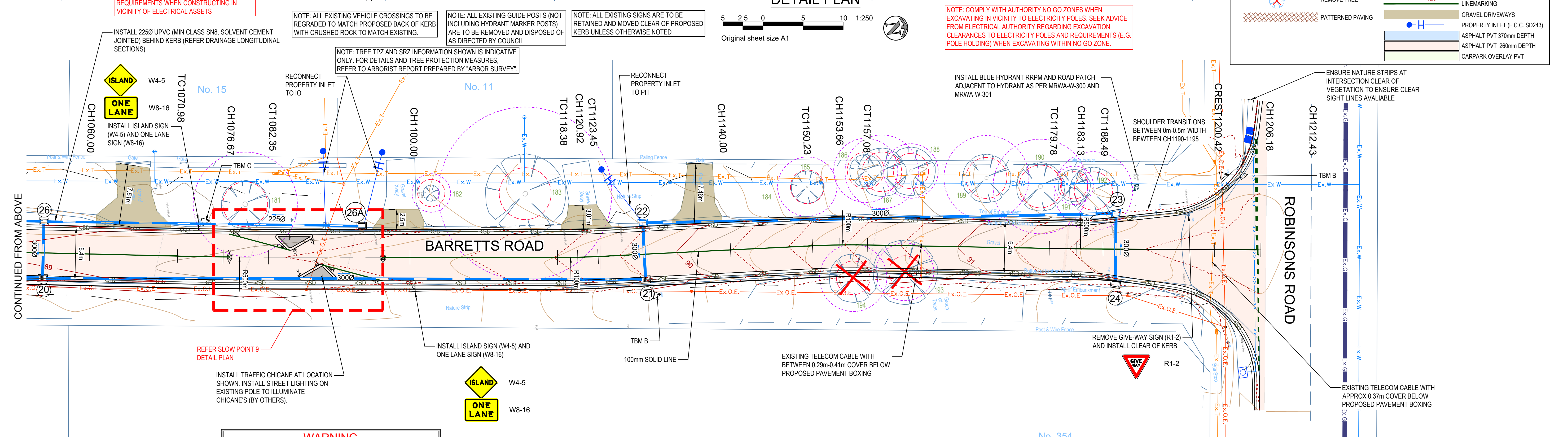
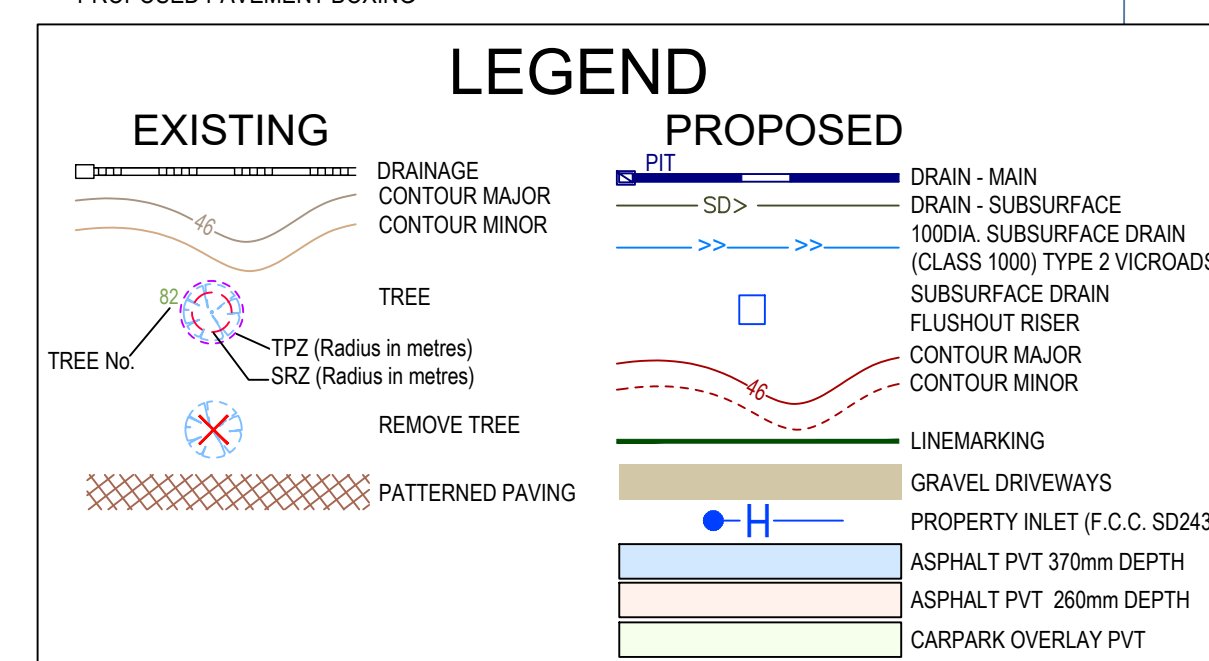
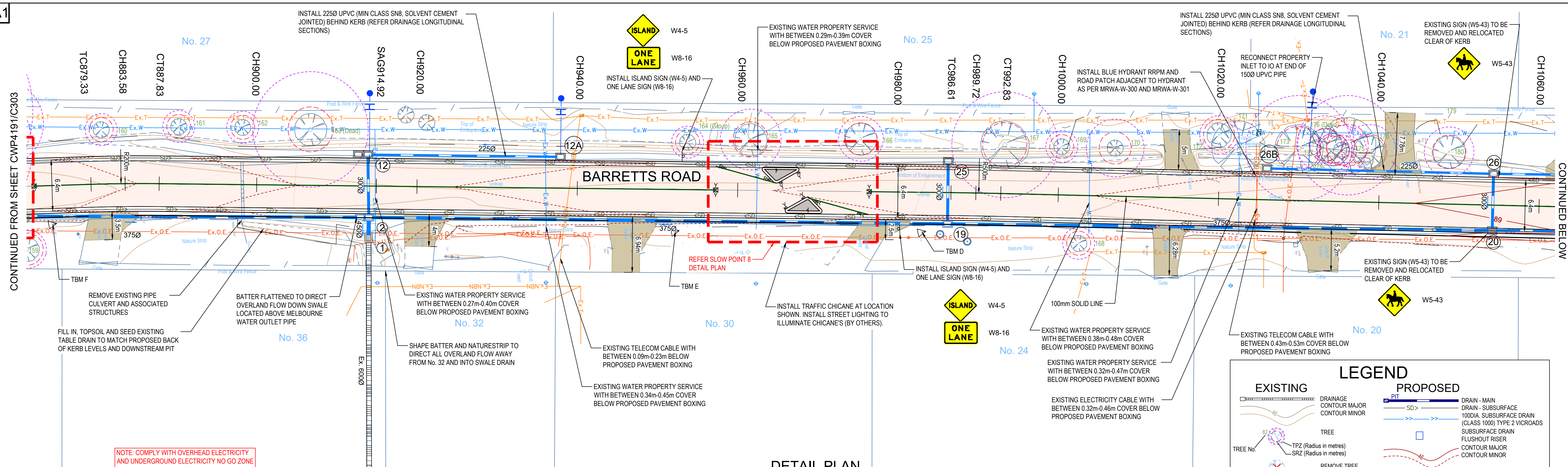
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



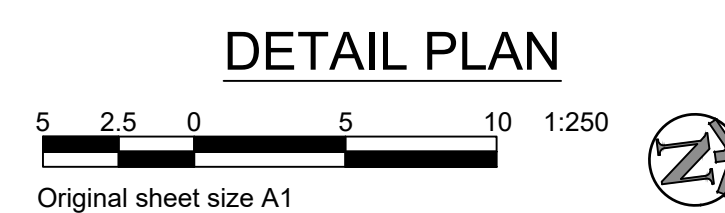
AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DETAIL PLAN - SHEET 2 OF 4							
ORIGINAL ISSUE				19-12-19	00	1	DRAWN TB (JCA)		FILE No. 25340 C3.dwg									
SERVICE PROVING RESULTS ADDED				18-06-20	01	2												
LAWTON RESERVE FRONTAGE AMENDED				03-09-20	02	3	DESIGN TB (JCA)		DATUM AHD									
CONSTRUCTION ISSUE				18-10-22	03	4												
CONSTRUCTION ISSUE (2)				25-10-22	04	5	SURVEY JCA		COUNCIL APPROVAL MEETING No. / /									
TREE INFORMATION UPDATED				12-01-23	05	6						SCALE AS SHOWN			DRAWING No. CWP4191/C302		Rev. No. 05	
						7	DESIGN CHECKED MD (JCA)		CONTRACT No.									
						8												
						9	APPROVED BY C.W.C.											
						10												
						11												
						12	DATE / /		APPROVED BY Infrastructure Manager			DATE / /						



LEGEND											AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT		BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DETAIL PLAN - SHEET 3 OF 4				
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE			STORMWATER (EXISTING)	ORIGINAL ISSUE	19-12-19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C3.dwg					
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR			STORMWATER (PROPOSED)	SERVICE PROVING RESULTS ADDED	18-06-20	01	2								
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT			WATER	LAWTON RESERVE FRONTAGE AMENDED	03-09-20	02	3	DESIGN	TB (JCA)	DATUM AHD					
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT			GAS	CONSTRUCTION ISSUE	18-10-22	03	4								
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE			ELECTRICITY (UNDERGROUND)	CONSTRUCTION ISSUE (2)	25-10-22	04	5	SURVEY	JCA	COUNCIL APPROVAL MEETING No. / /					
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT			ELECTRICITY (OVERHEAD)	TREE INFORMATION UPDATED	12-01-23	05	6								
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT			EXISTING KERB & CHANNEL					7	DESIGN CHECKED	MD (JCA)	CONTRACT No.	SCALE	AS SHOWN	DRAWING No. CWP4191/C303	Rev. No. 05
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG			PROPOSED KERB EXISTING KERB PROPOSED KERB					8							
																	9	APPROVED BY	C.W.C.					
																10								
																11								
																12	DATE / /		APPROVED BY Infrastructure Manager		DATE / /			



WARNING
Beware - Underground Services
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE
APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION
SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE
SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO
GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.
CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



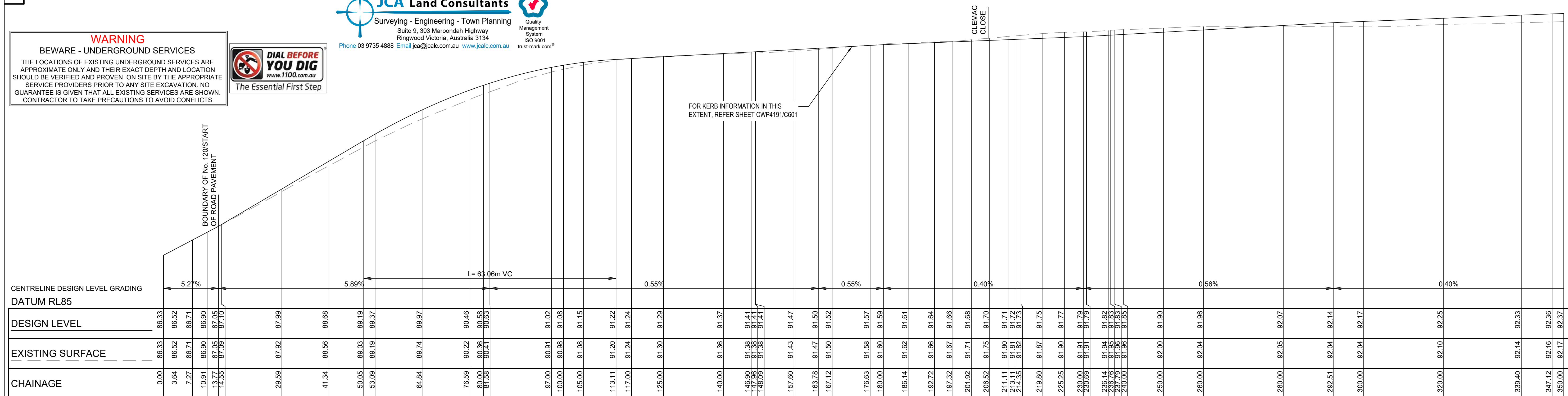
CONSTRUCTION ISSUE

AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DETAIL PLAN - SHEET 4 OF 4				
ORIGINAL ISSUE		19-12-19	00	1	DRAWN TB (JCA)		FILE No. 25340 C3.dwg					
SERVICE PROVING RESULTS ADDED		18-06-20	01	2								
LAWTON RESERVE FRONTAGE AMENDED		03-09-20	02	3	DESIGN TB (JCA)		DATUM AHD					
CONSTRUCTION ISSUE		18-10-22	03	4								
CONSTRUCTION ISSUE (2)		25-10-22	04	5	SURVEY JCA		COUNCIL APPROVAL MEETING No. / /					
TREE INFORMATION UPDATED		12-01-23	05	6								
				7	DESIGN CHECKED MD (JCA)		CONTRACT No.	SCALE	AS SHOWN	DRAWING No.	Rev. No.	
				8								
				9	APPROVED BY C.W.C.					CWP4191/C304		
				10								
				11			APPROVED BY Infrastructure Manager				05	
				12	DATE / /				DATE / /			

LEGEND											
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		STORMWATER (EXISTING)
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR		STORMWATER (PROPOSED)
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT		WATER
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT		GAS
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE		TELSTRA
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT		ELECTRICITY (UNDERGROUND)
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT		ELECTRICITY (OVERHEAD)
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG		EXISTING KERB & CHANNEL
											PROPOSED KERB

BEWARE - UNDERGROUND SERVICES

THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



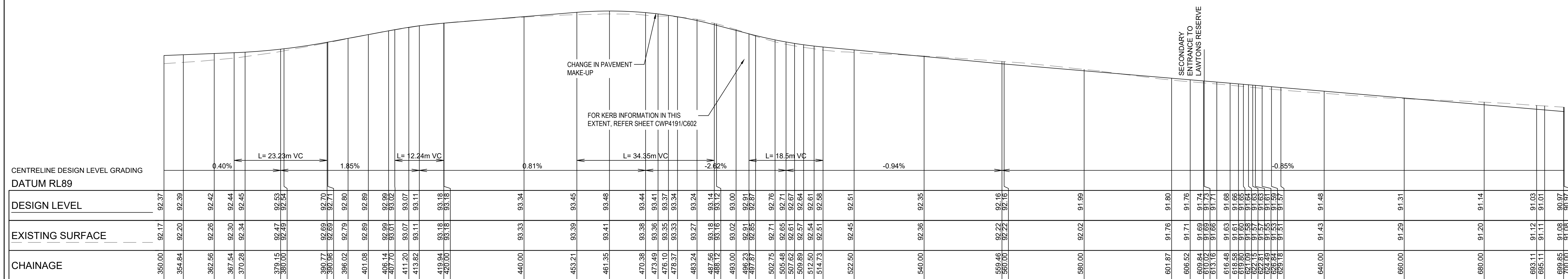
FOR KERB INFORMATION IN THIS
EXTENT, REFER SHEET CWP4191/C601

RIGHT LIP OF KERB VARIES TO OBTAIN
LONGITUDINAL GRADE IN KERB.
REFER SHEET CWP4191/601

LEFT LIP OF KERB TO MATCH EXISTING
LEVELS AT CLEMAC CLOSE INTERSECTION

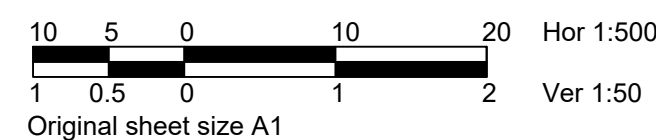
LEFT KERB CROSS-FALL TRANSITIONS
BEWTEEN SUPERELEVATED 1.75% TO
3.5% BETWEEN CH250-CH257 TO OBTAIN
GRADE ON KERB

— LEFT KERB CROSS-FALL TRANSITIONS
BEWTEEN 3.5% TO 3% BETWEEN
CH250-CH257 TO OBTAIN GRADE ON KERB



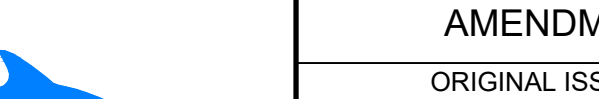
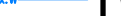
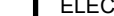
CROSS-FALL TRANSITIONS TO 2.5% AT CH460 BETWEEN CH455 AND CH465 TO ACHIEVE GRADE IN KERB AT HIGH POINT

BARRETTS ROAD LONGITUDINAL SECTION

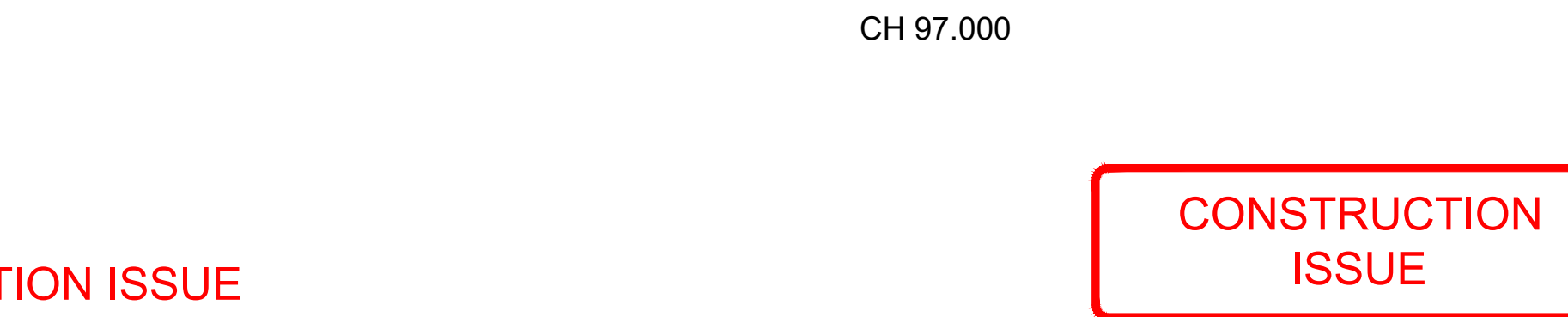
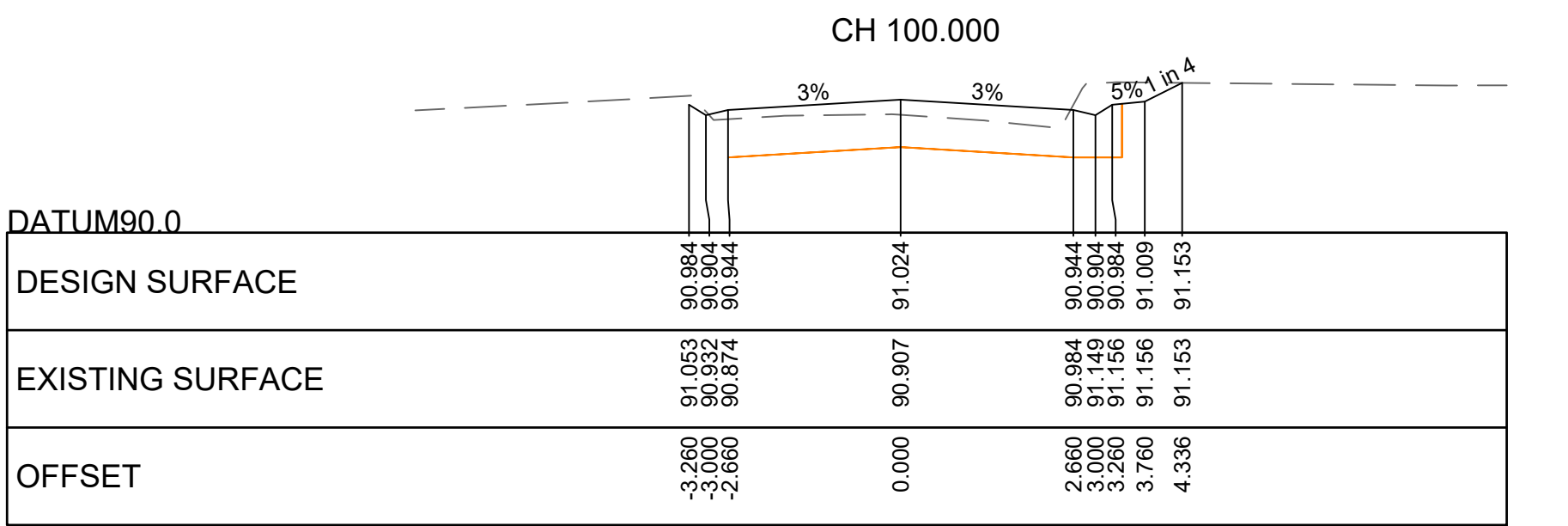
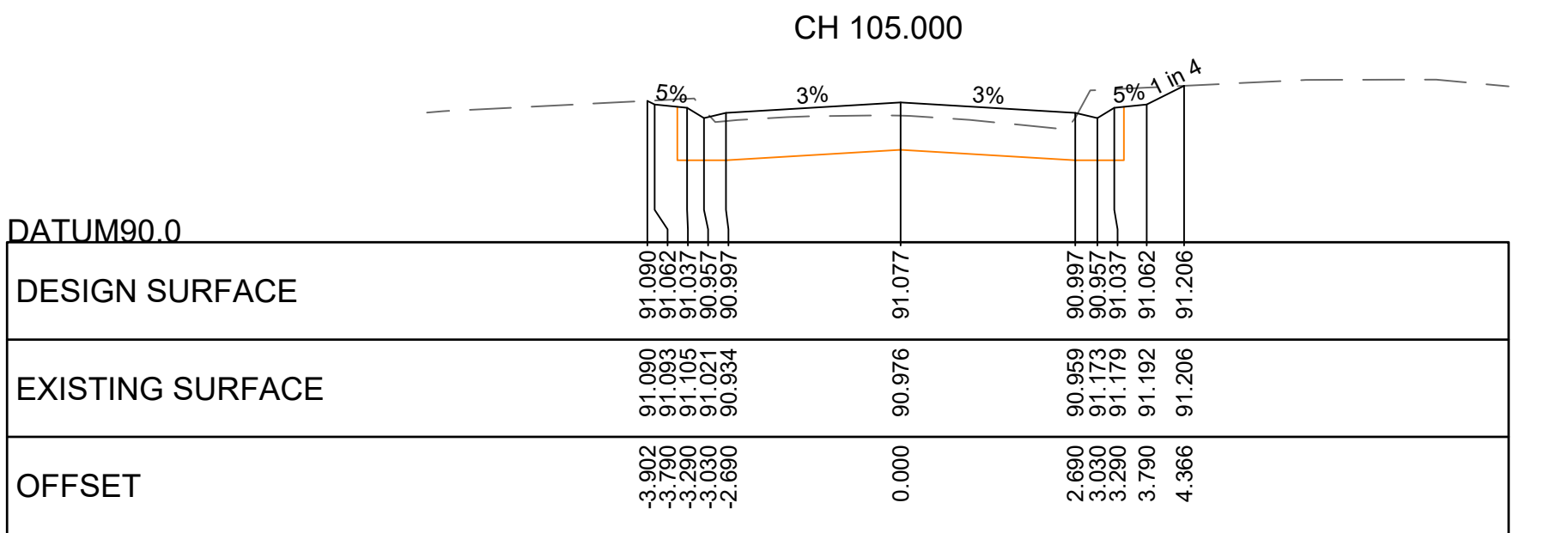
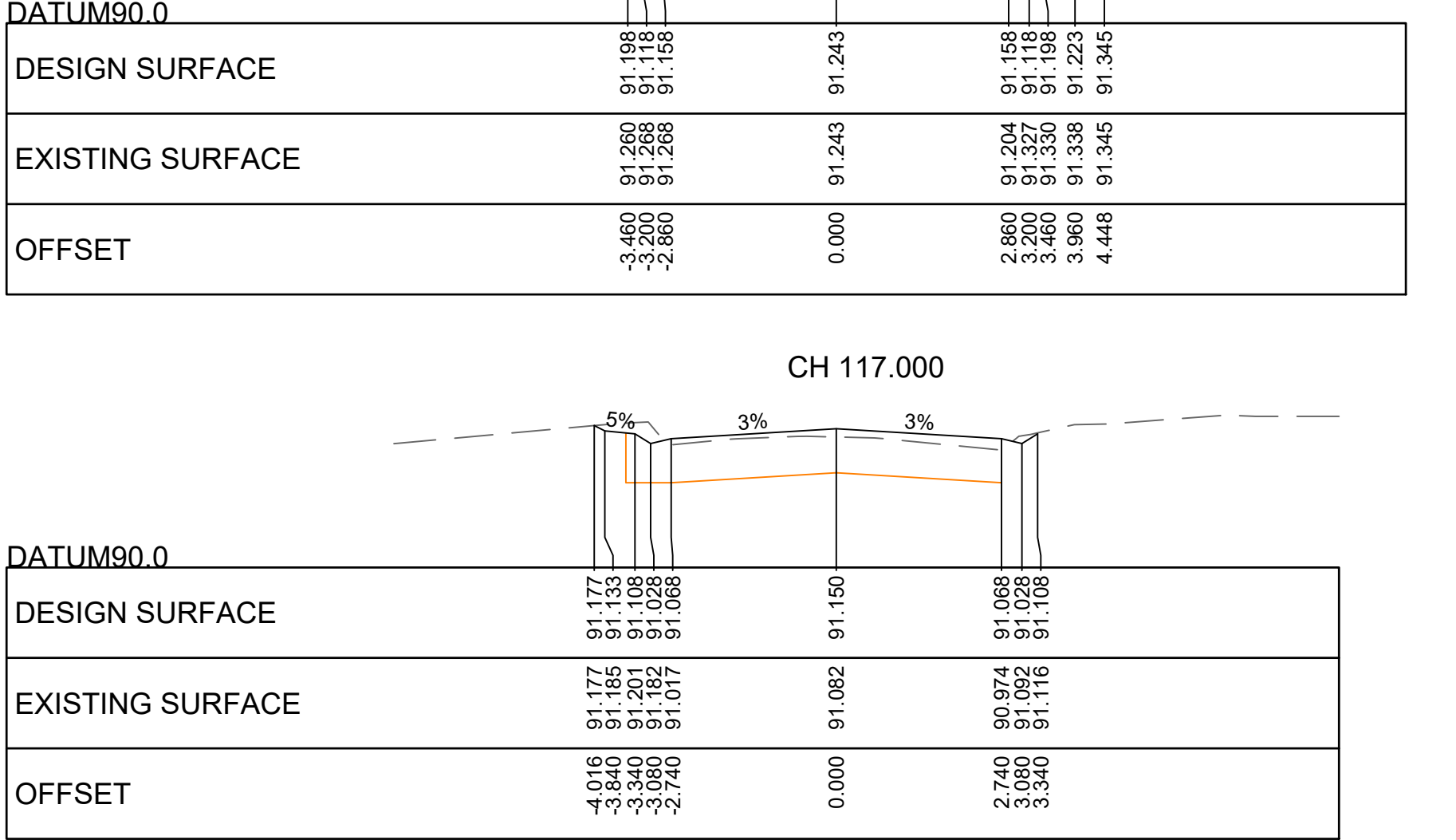
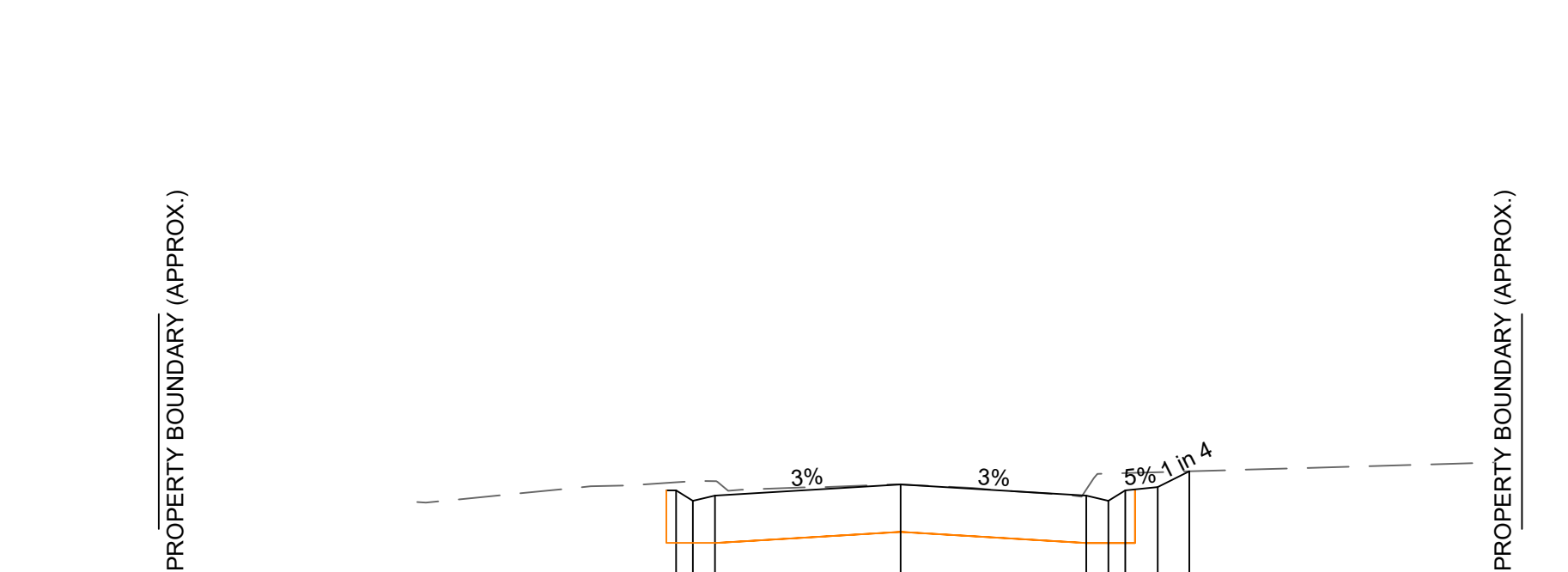
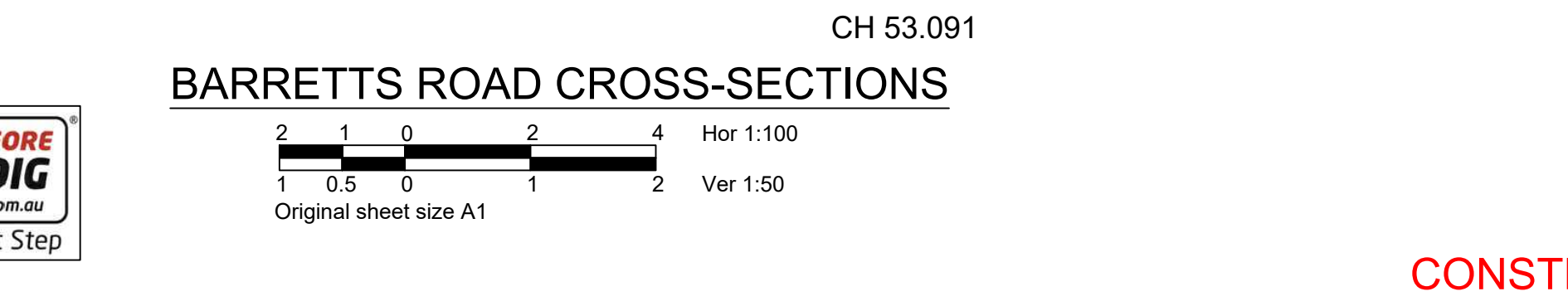
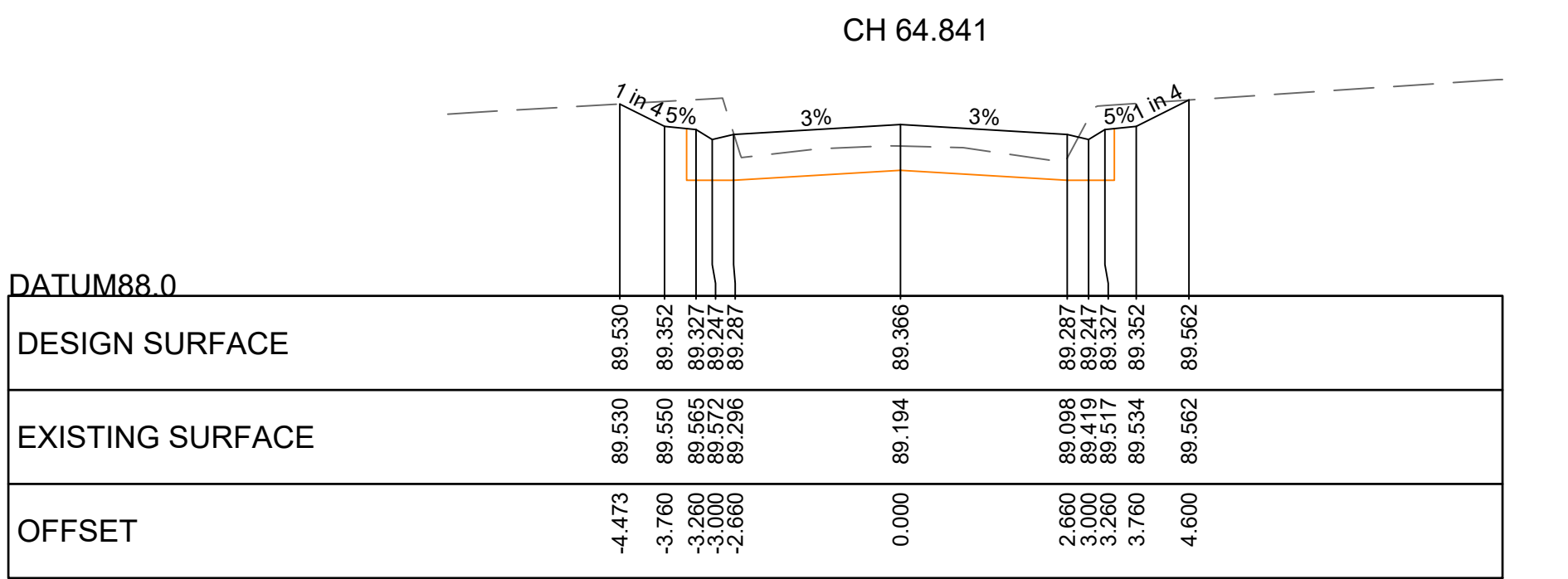
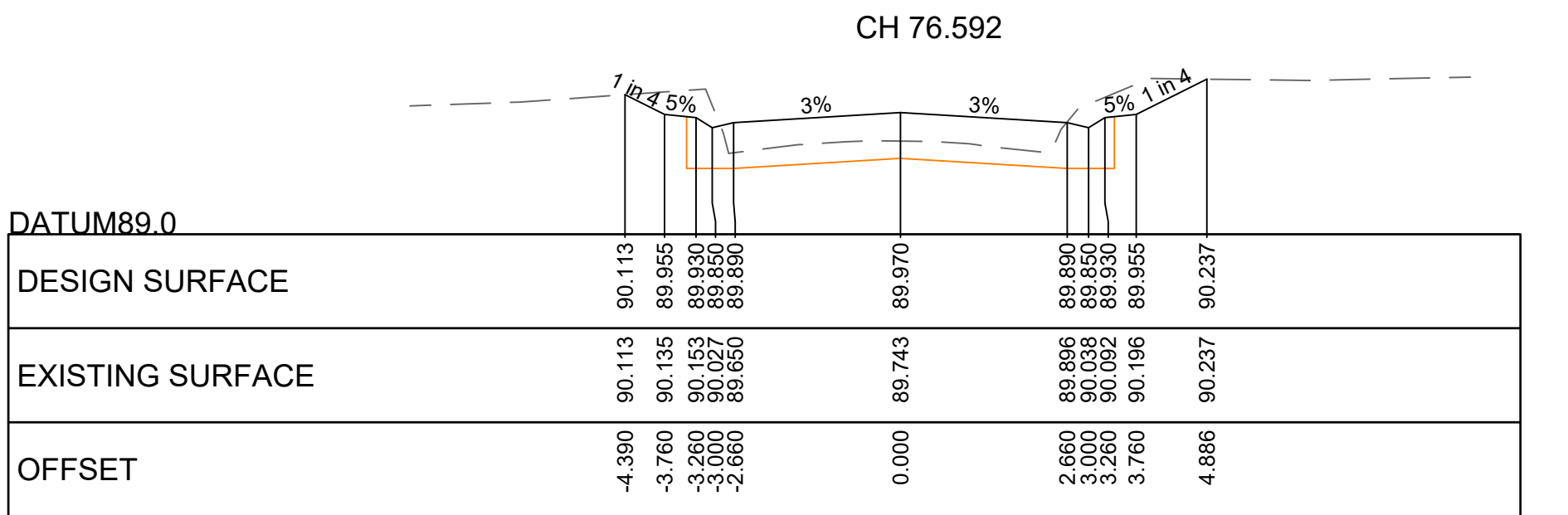
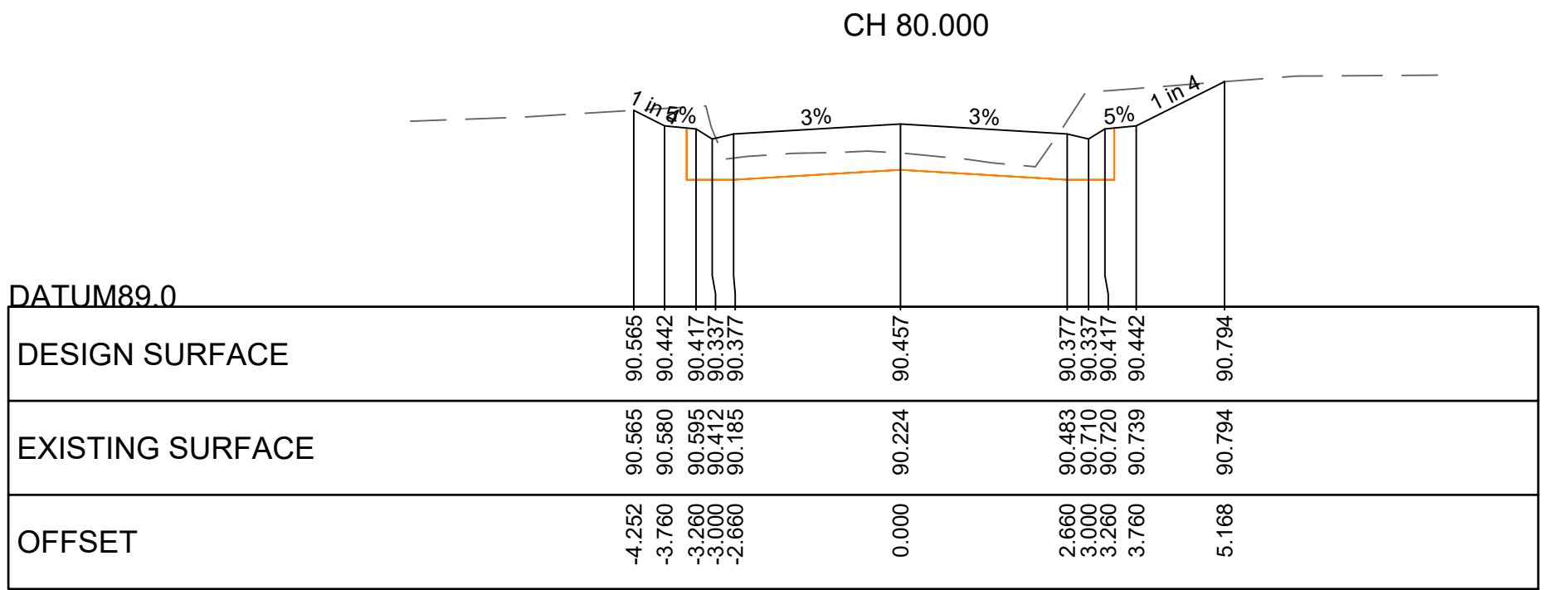
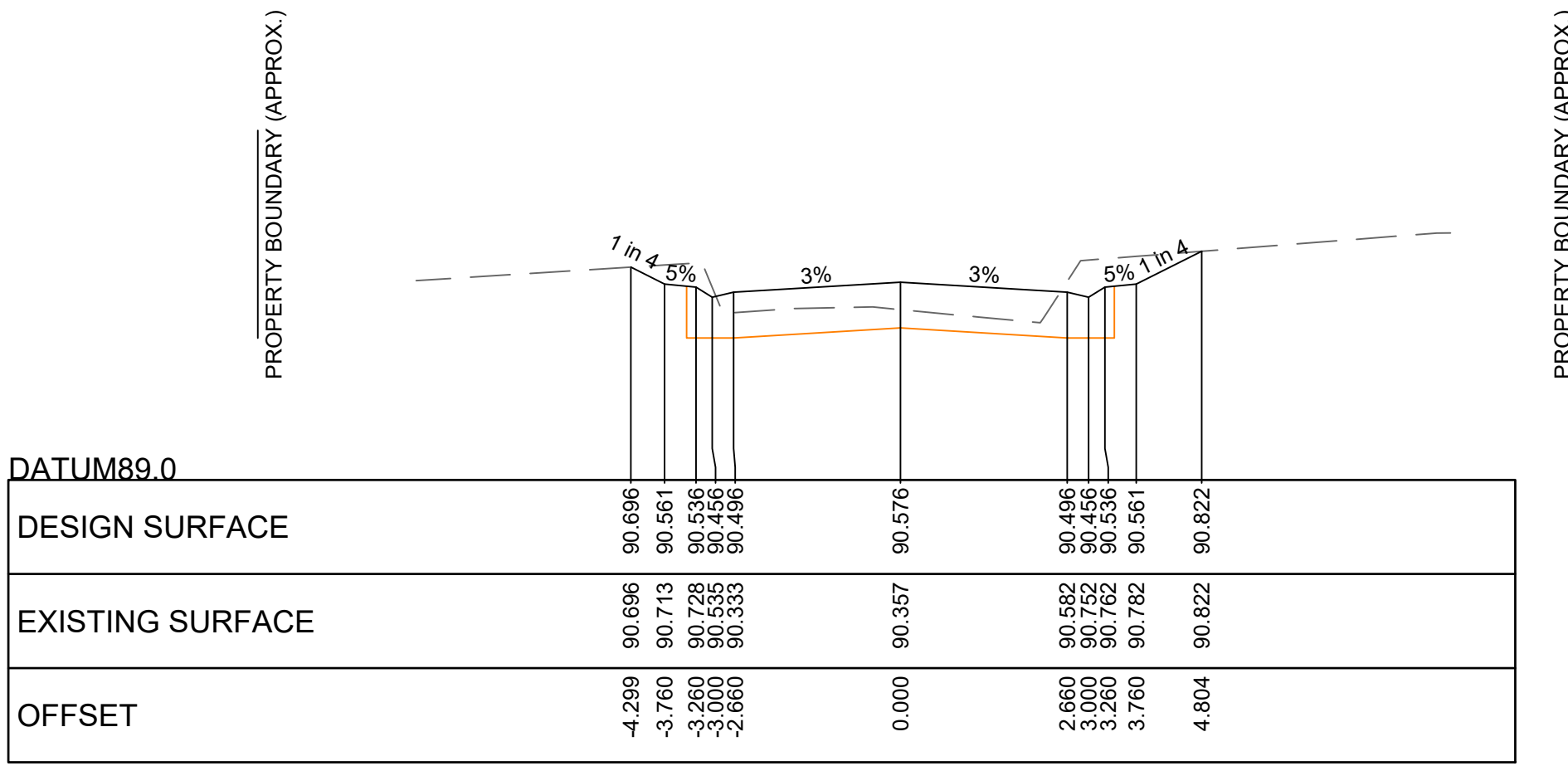
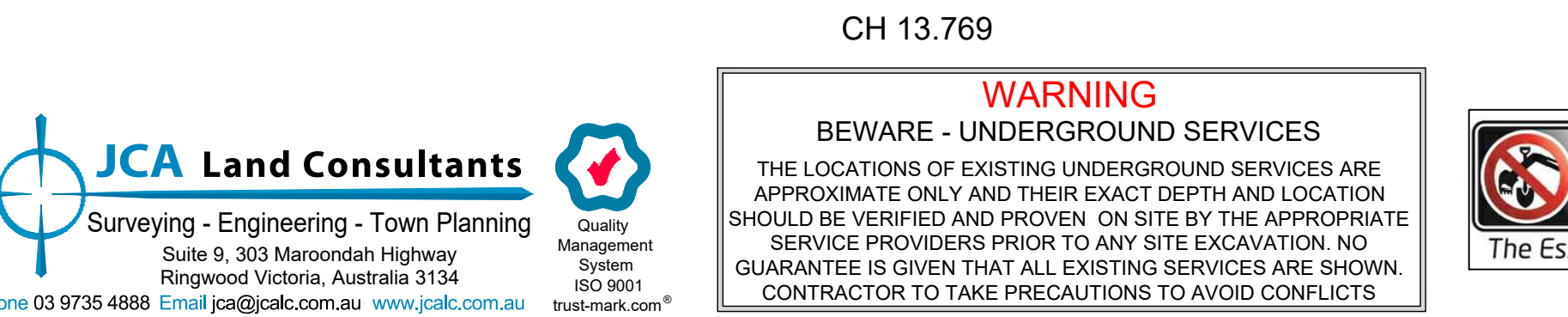
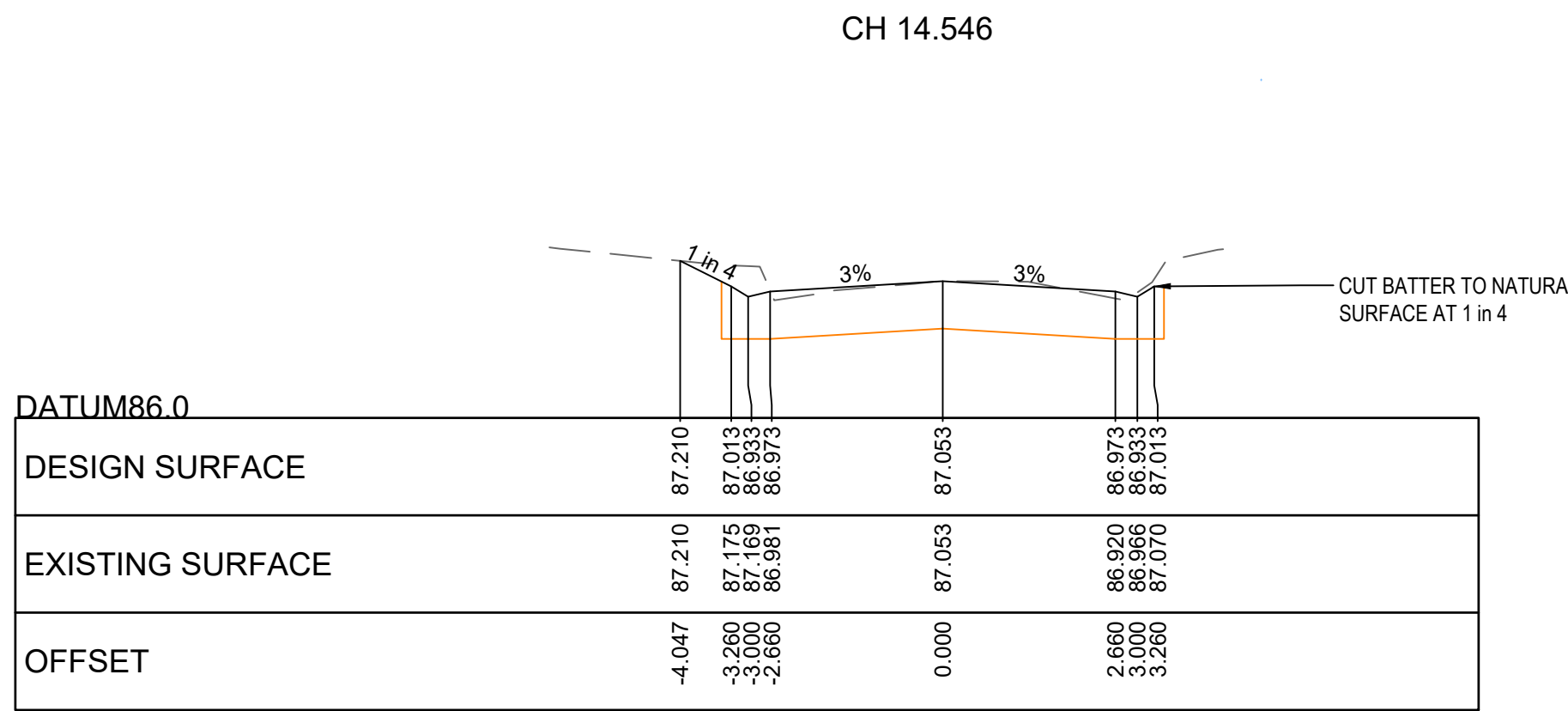
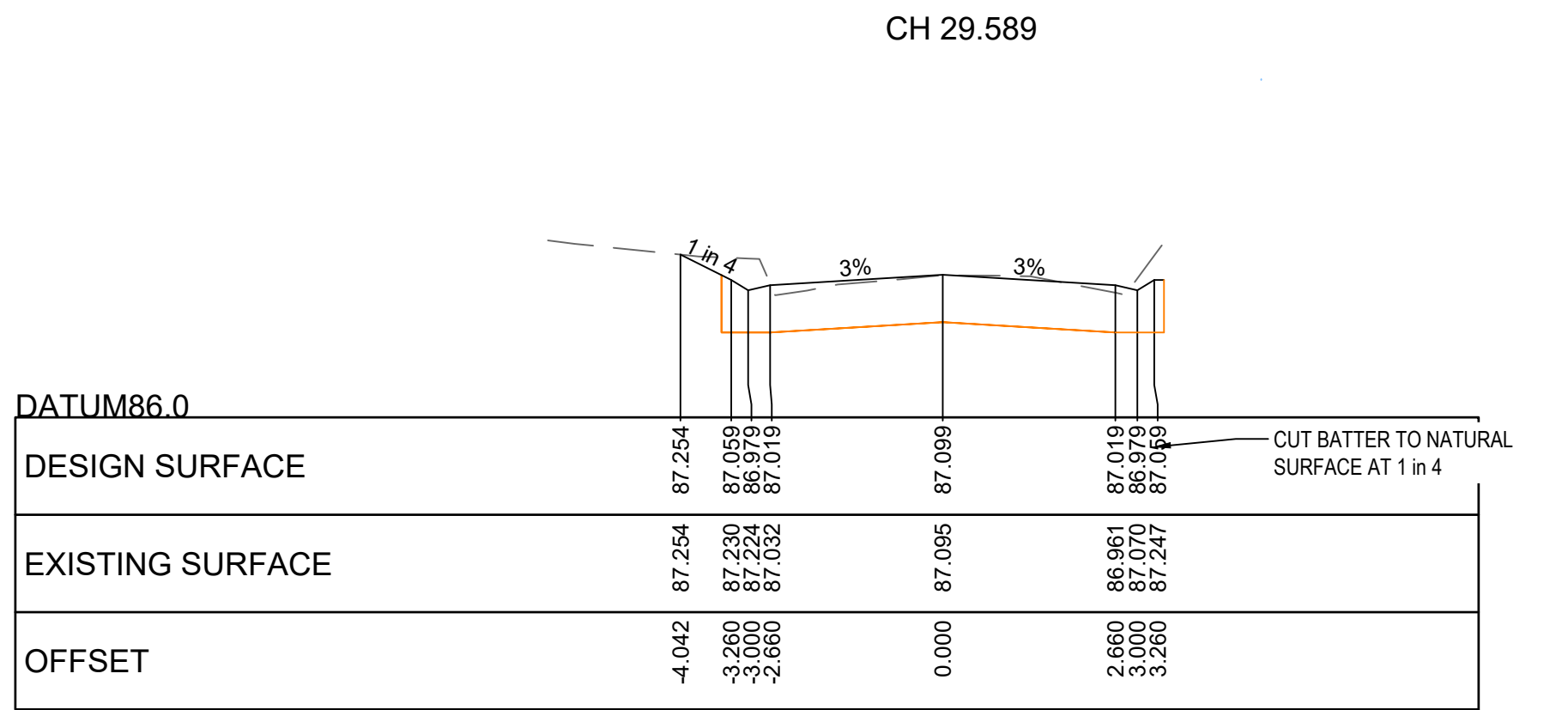
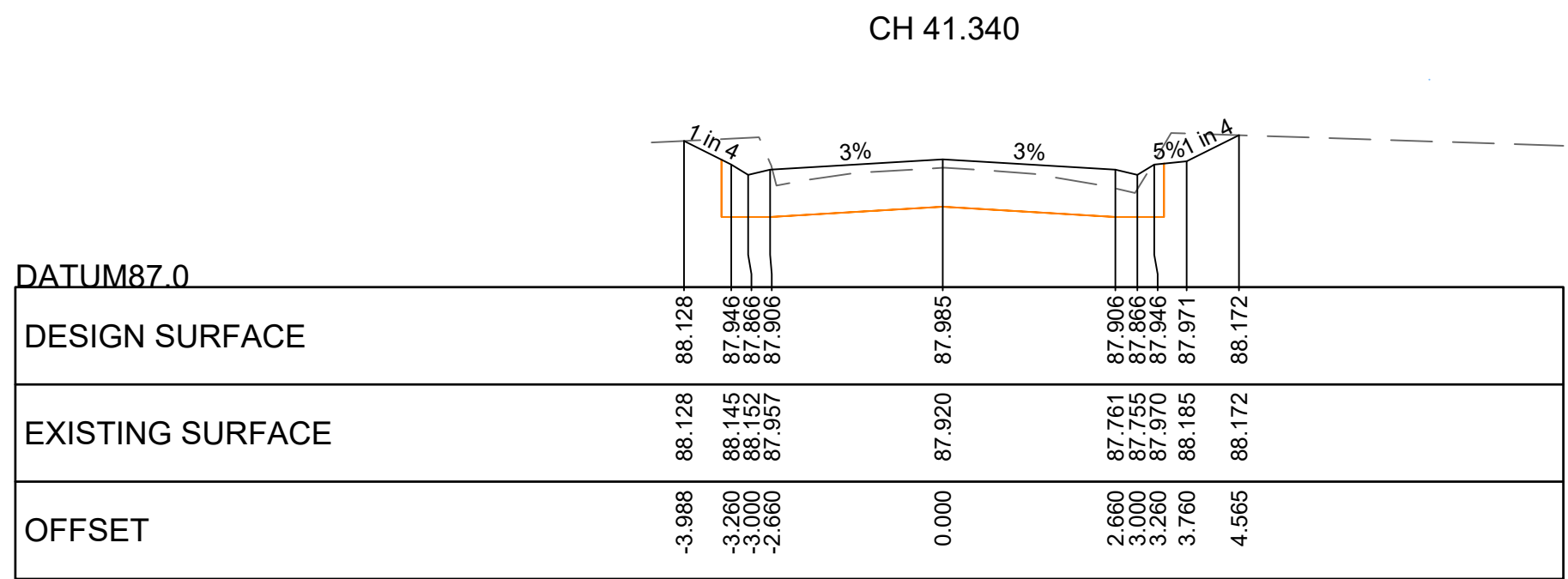
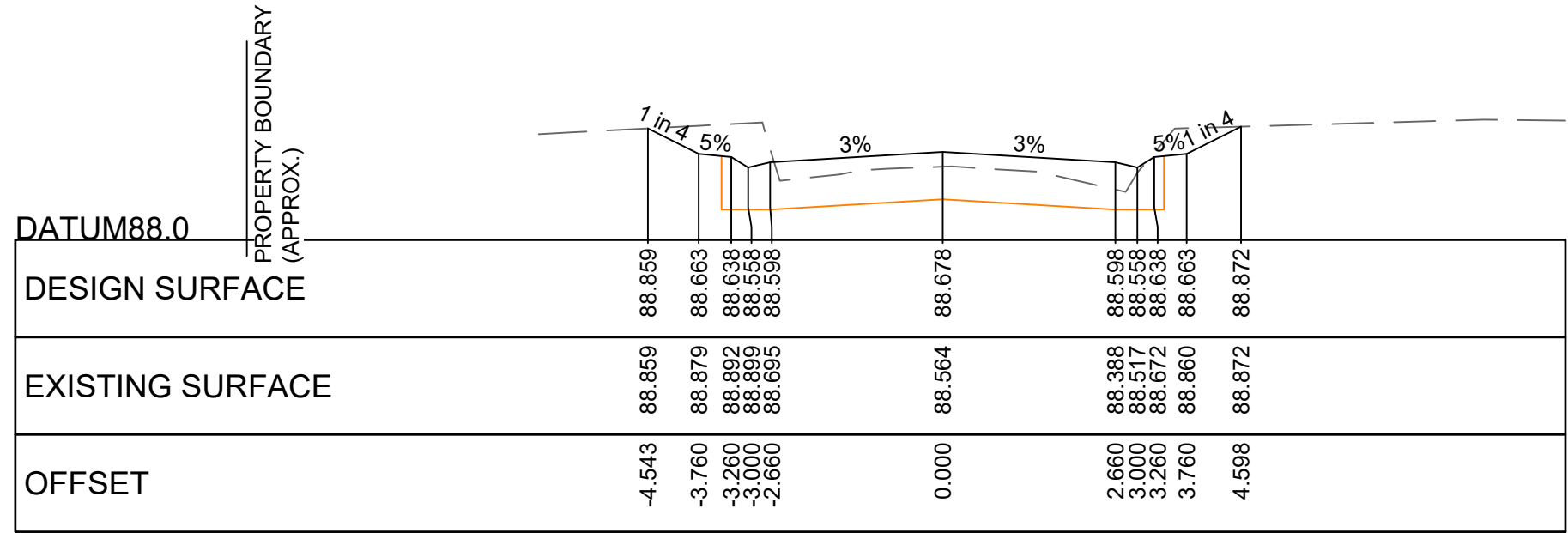


CONSTRUCTION ISSUE

CONSTRUCTION ISSUE

LEGEND															AMENDMENTS				DATE				BY				No.				INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD LONGITUDINAL SECTION - SHEET 1 OF 2			
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		STORMWATER (EXISTING)		STORMWATER (PROPOSED)			SEWER		WATER		GAS		TELSTRA		ELECTRICITY (UNDERGROUND)		ELECTRICITY (OVERHEAD)		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL		EXISTING KERB		PROPOSED KERB				
	MAST ARM (OUTREACH AS INDICATED)		RUBBISH BIN		NEW PEDESTAL		TAP		TELSTRA PILLAR		MAJOR TELSTRA PIT		MINOR TELSTRA PIT			GAS VALVE		SEWER PIT		FIRE HYDRANT		FIRE PLUG		ELECTRIC PIT		PERMANENT SURVEY MARK		SURVEY MARK OR STATION		TREE		WOODEN POST		STEEL POST				
	PED. PUSH BUTTON & LANTERN		SIDE ENTRY PIT		UNITED ENERGY POLE		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		600mm DIA. CONDUIT JUNCTION PIT		300mm DETECTOR PIT			FENCE		TRAFFIC SIGNAL CONTROLLER		EXISTING DETECTOR LOOP		INTERNALLY ILLUMINATED SIGN		GRATED PIT		EXISTING STREET LIGHTING LANTERN		PROPOSED STREET LIGHTING LANTERN										

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Suite 9, 303 Maroonah Highway
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Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

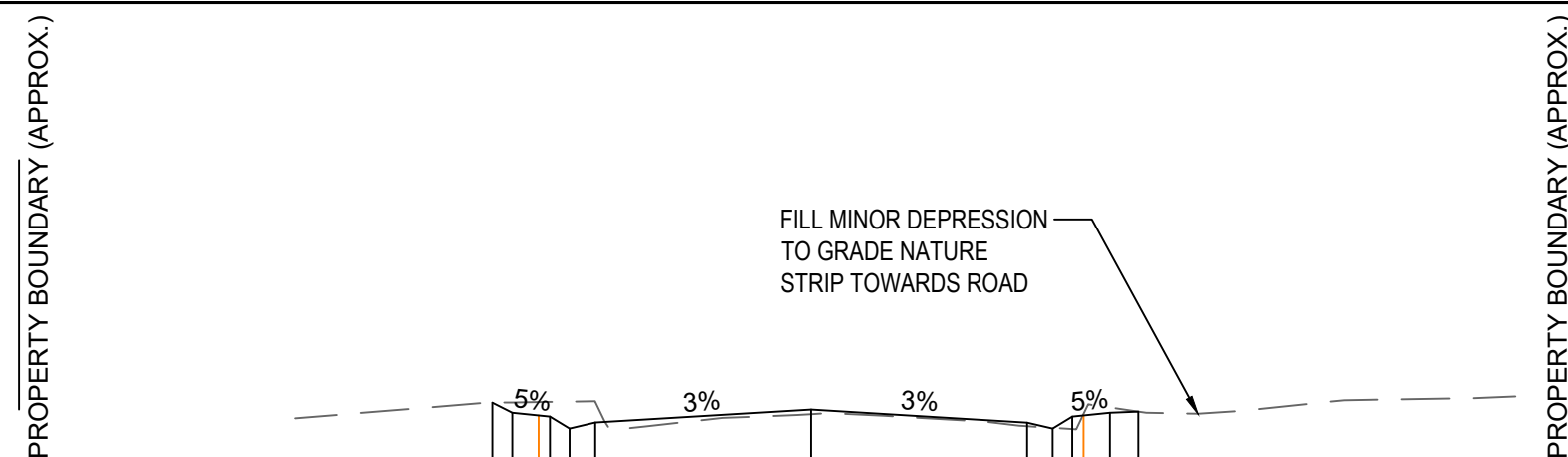
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WARNING
BEWARE - UNDERGROUND SERVICES
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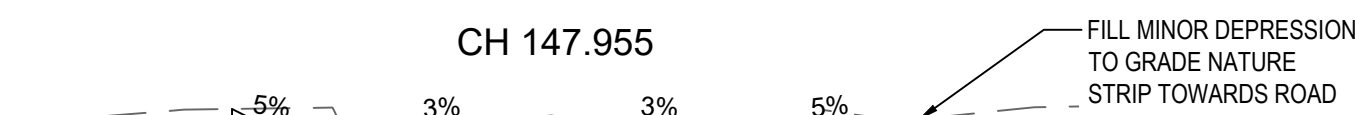
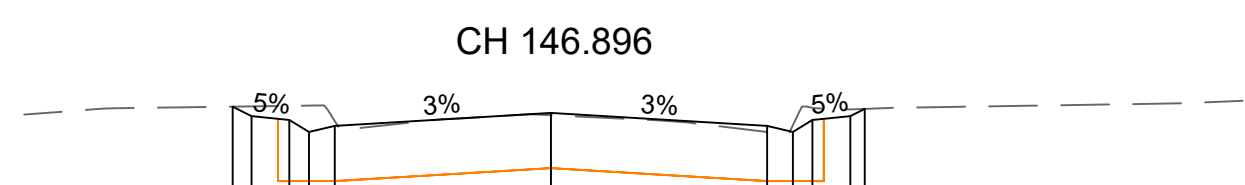
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www.1100.com.au
The Essential First Step

BARRETTS ROAD CROSS-SECTIONS
2 1 0 2 4 Hor 1:100
1 0.5 0 1 2 Ver 1:50
Original sheet size A1

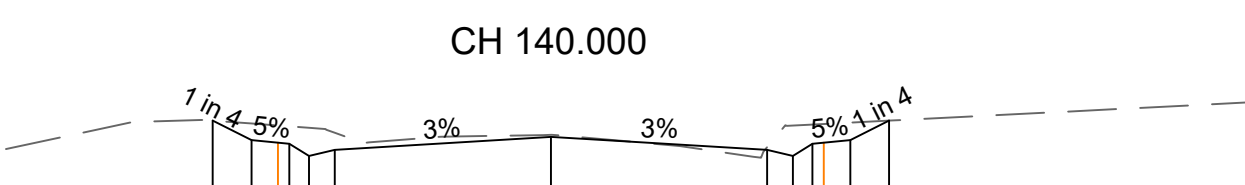
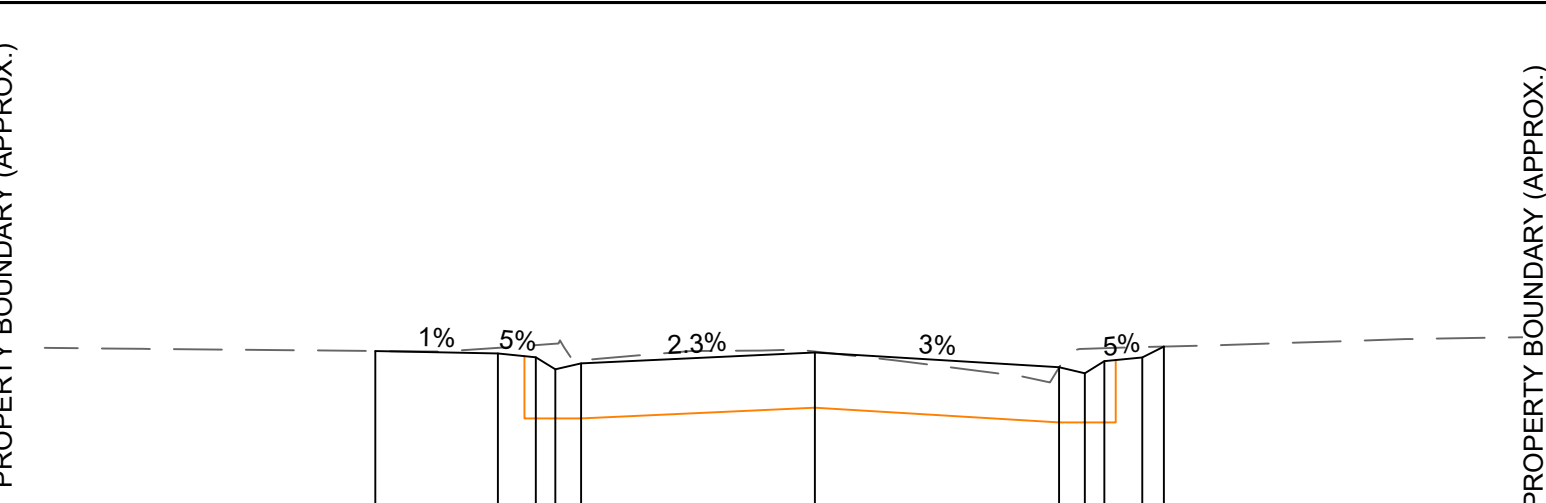
LEGEND										FRANKSTON CITY		AMENDMENTS				DATE				BY				No.				INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION											
3 ASPECT LANTERN (200mm) MAST ARM (OUTREACH AS INDICATED) PED. PUSH BUTTON & LANTERN INTERNALLY ILLUMINATED SIGN EXISTING STREET LIGHTING LANTERN PROPOSED STREET LIGHTING LANTERN SIGN PARKING METER RUBBISH BIN SIDE ENTRY PIT GRATED PIT FENCE TRAFFIC SIGNAL CONTROLLER EXISTING DETECTOR LOOP EXISTING PEDESTAL NEW PEDESTAL NEW JOINT USE POLE UNITED ENERGY POLE DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER 600mm DIA. CONDUIT JUNCTION PIT 300mm DETECTOR PIT WATER METER TAP ELECTRIC PIT PERMANENT SURVEY MARK SURVEY MARK OR STATION TREE WOODEN POST STEEL POST WATER VALVE TELSTRA PILLAR MAJOR TELSTRA PIT MINOR TELSTRA PIT GAS VALVE SEWER PIT FIRE HYDRANT FIRE PLUG STORMWATER (EXISTING) STORMWATER (PROPOSED) SEWER WATER GAS TELSTRA ELECTRICITY (UNDERGROUND) ELECTRICITY (OVERHEAD) EXISTING KERB & CHANNEL PROPOSED KERB & CHANNEL EXISTING KERB PROPOSED KERB												ORIGINAL ISSUE - FLP DETAILED DESIGN SERVICE PROVING RESULTS ADDED LAWTON RESERVE FRONTAGE AMENDED CONSTRUCTION ISSUE				04.10.19 19-12-19 18-06-20 03-09-20 18-10-22				00 01 02 03 04 05 06 07 08 09 10 11 12				1 2 3 4 5 6 7 8 9 10 11 12				DRAWN DESIGN SURVEY DESIGN CHECKED APPROVED BY DATE				TB (JCA) TB (JCA) JCA MD (JCA) C.W.C. DATE				FILE No. 25340 C5.dwg DATUM AHD COUNCIL APPROVAL MEETING No. / / CONTRACT No. APPROVED BY Infrastructure Manager DATE				SCALE AS SHOWN DRAWING No. CWP4191/C501 Rev. No. 04			



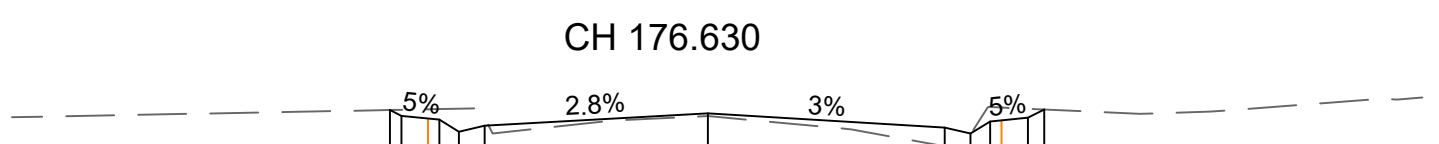
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DESIGN SURFACE	91.459 91.332 91.367 91.387 91.327
EXISTING SURFACE	91.459 91.461 91.464 91.466 91.466
OFFSET	-4.225 -3.960 -3.460 -3.468 -2.660
	0.000

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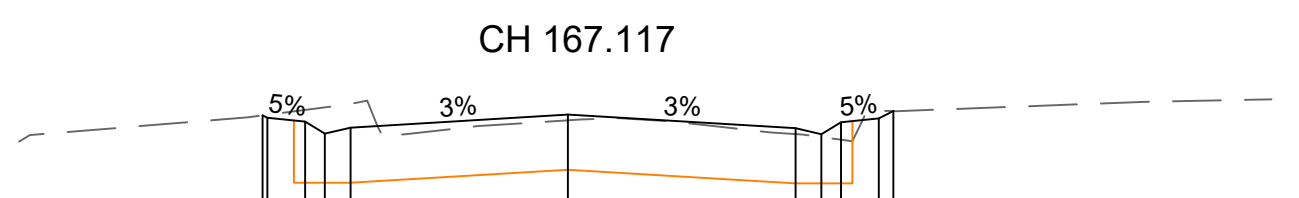
DATUM90.0			
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EXISTING SURFACE	91.411 91.413 91.416 91.398 91.316	91.355	91.244 91.288 91.403 91.393 91.397
OFFSET	-4.210 -3.960 -3.460 -3.460 -3.660	0.000	3.960 3.960 3.460 3.960 4.151

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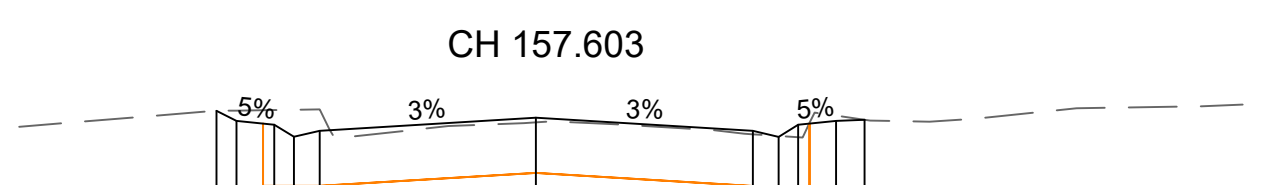
DATUM90.0		
DESIGN SURFACE	91.561	91.561 91.565 91.540 91.460 91.500
EXISTING SURFACE	91.561	91.603 91.620 91.630 91.519
OFFSET	-5.816	-4.193 -3.693 -3.433 -3.093



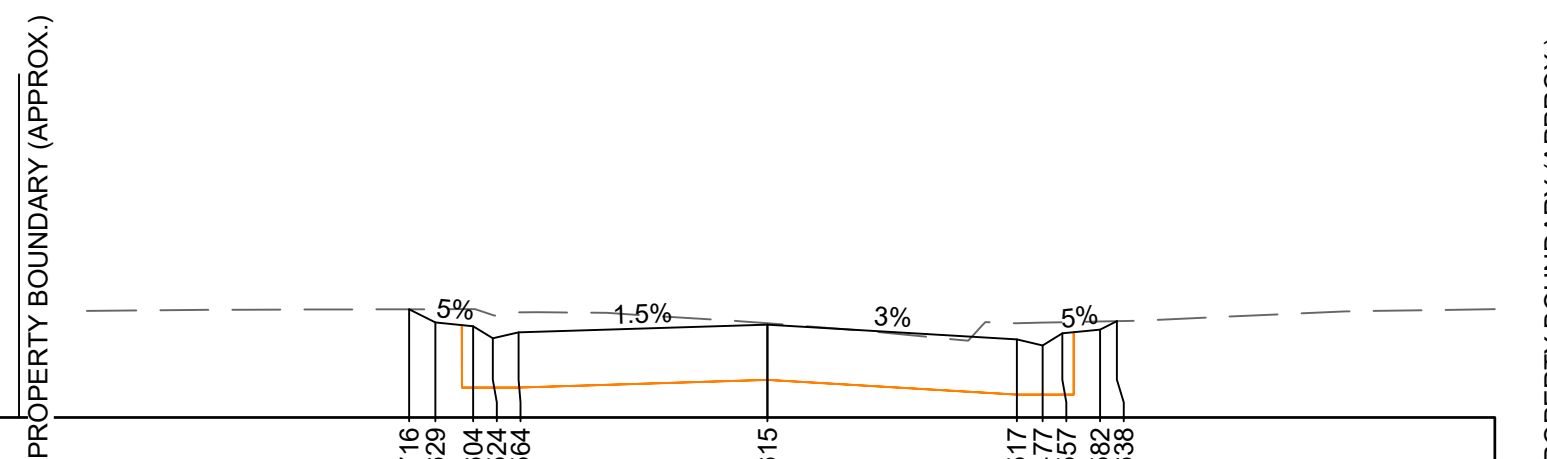
DATUM90.0				
DESIGN SURFACE	91.540 91.542 91.592 91.397 91.437	91.519	91.425 91.385 91.465 91.544	
EXISTING SURFACE	91.540 91.542 91.549 91.549 91.490	91.500	91.300 91.378 91.500 91.524	
OFFSET	-4.206 -3.063 -3.293 -3.293 -2.953	0.000	3.133 3.473 3.733 4.450	



DATUM90.0			
DESIGN SURFACE	91.461 91.445 91.420 91.380	91.466	91.376 91.360 91.346 91.441 91.489
EXISTING SURFACE	91.461 91.465 91.497 91.537	91.428	91.337 91.311 91.300 91.491 91.489
OFFSET	-0.038 -0.019 -0.477 -0.159	0.000	3.012 3.062 3.182 4.112 4.306



DATUM90.0			
DESIGN SURFACE		91.460 91.383 91.338 91.268 91.208 91.328	91.414
EXISTING SURFACE		91.460 91.461 91.467 91.467 91.469	91.393
OFFSET		-4.226 -3.960 -3.400 -3.400 -2.660	0.000

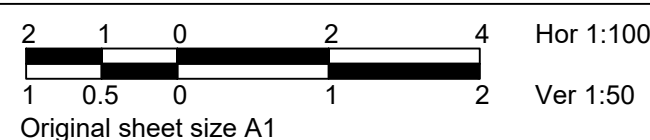


DATUM91.0		PROPOSED	EXISTING	OFFSET
DESIGN SURFACE	91.716 91.623 91.604 91.554	91.716 91.716 91.678 91.695	91.615	91.517 91.517 91.557 91.592 91.638
EXISTING SURFACE	91.716 91.716 91.678 91.695	91.624	91.624	91.624 91.630 91.630 91.635 91.638
OFFSET	-4.741 -4.382 -3.882 -3.232	0.000	0.000	3.300 3.900 3.900 4.400 4.622



WARNING
BEWARE - UNDERGROUND SERVICES

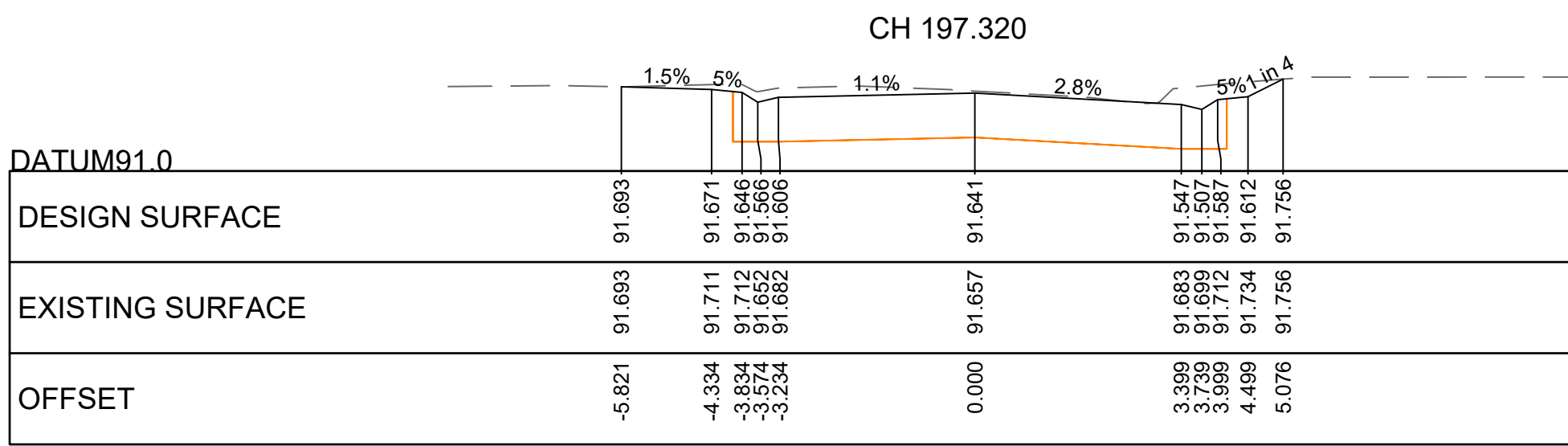
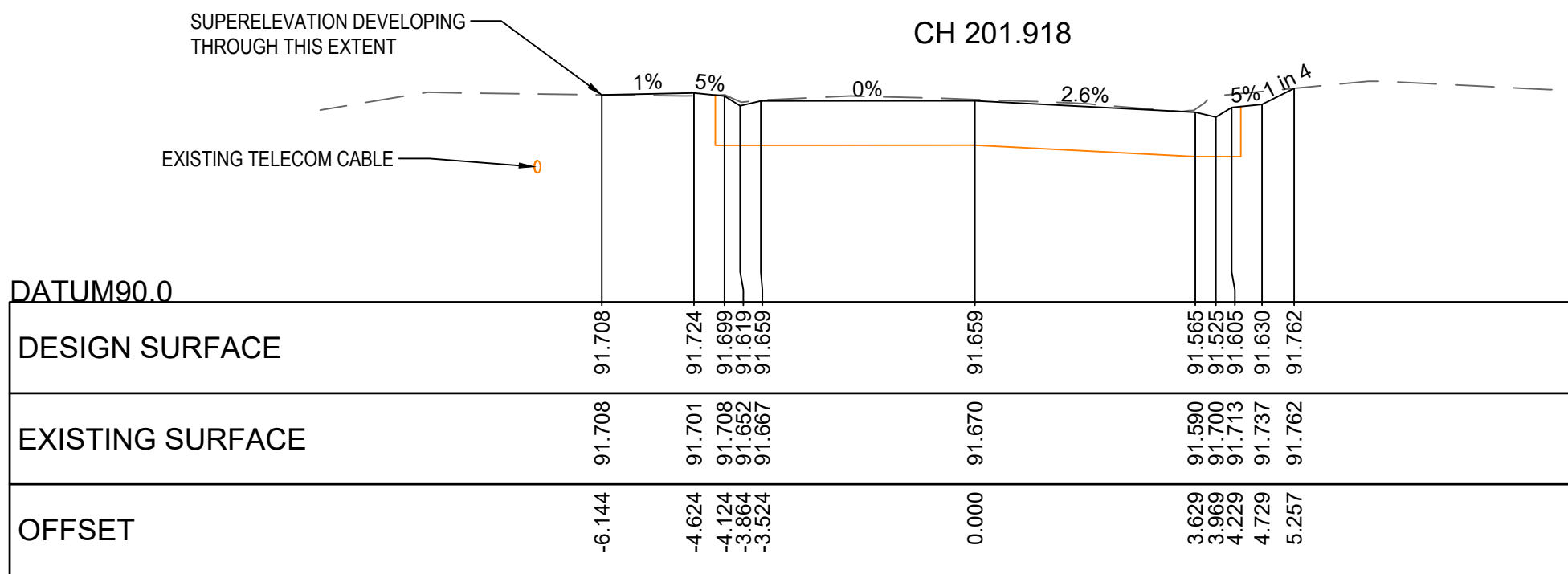
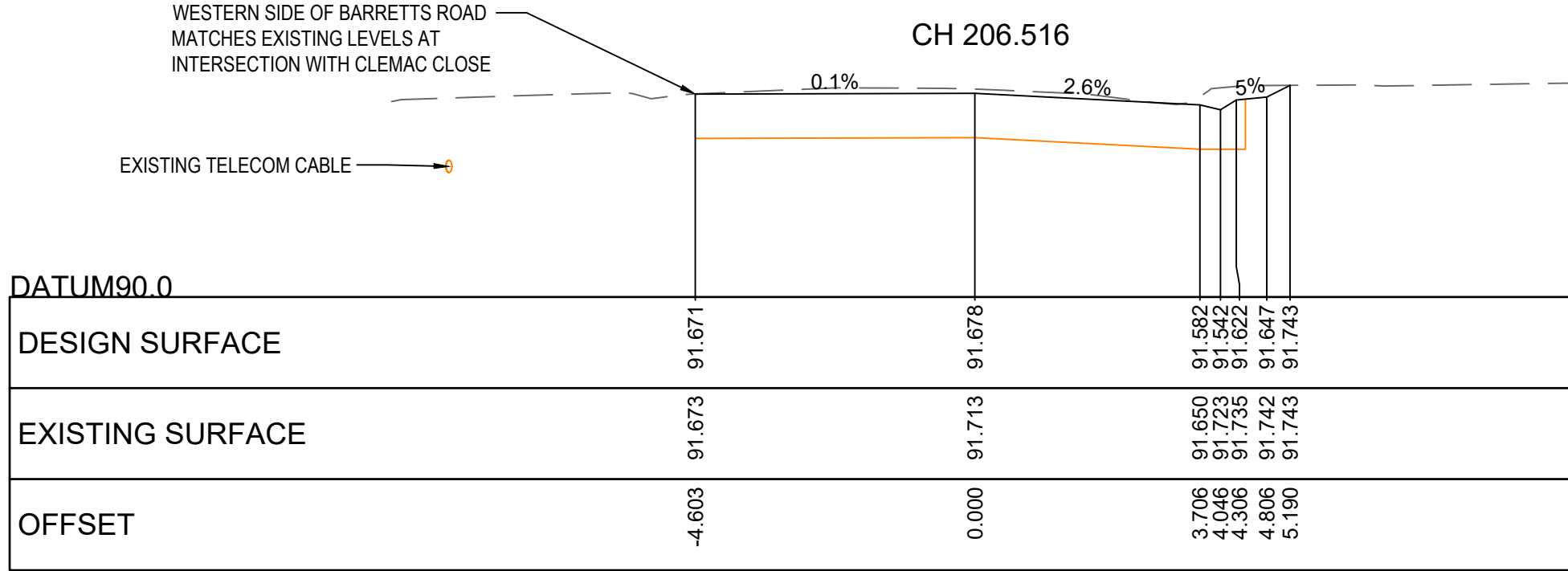
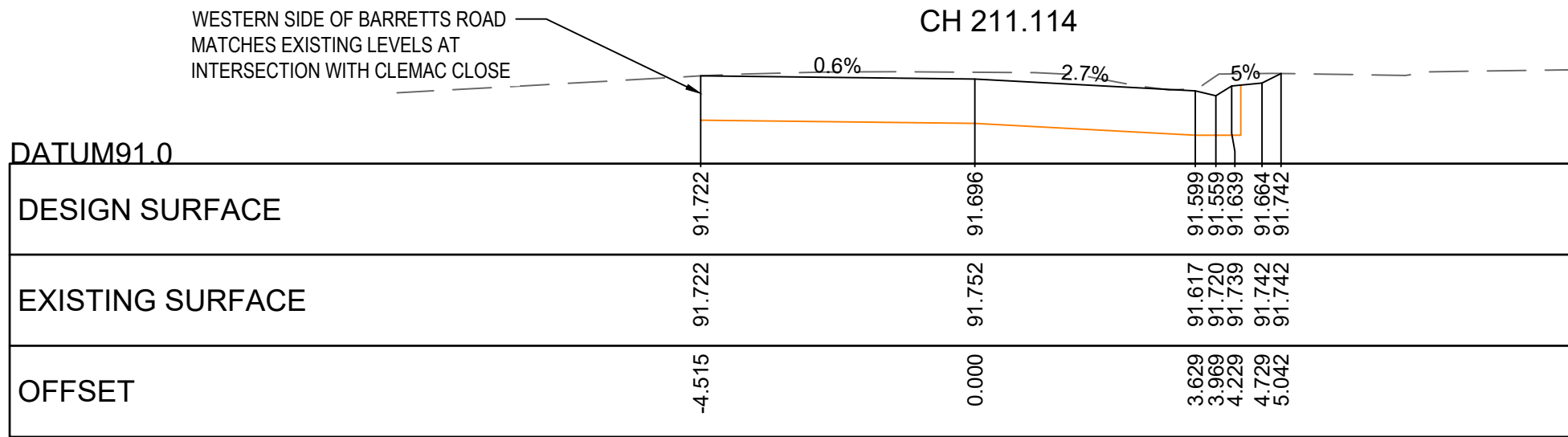
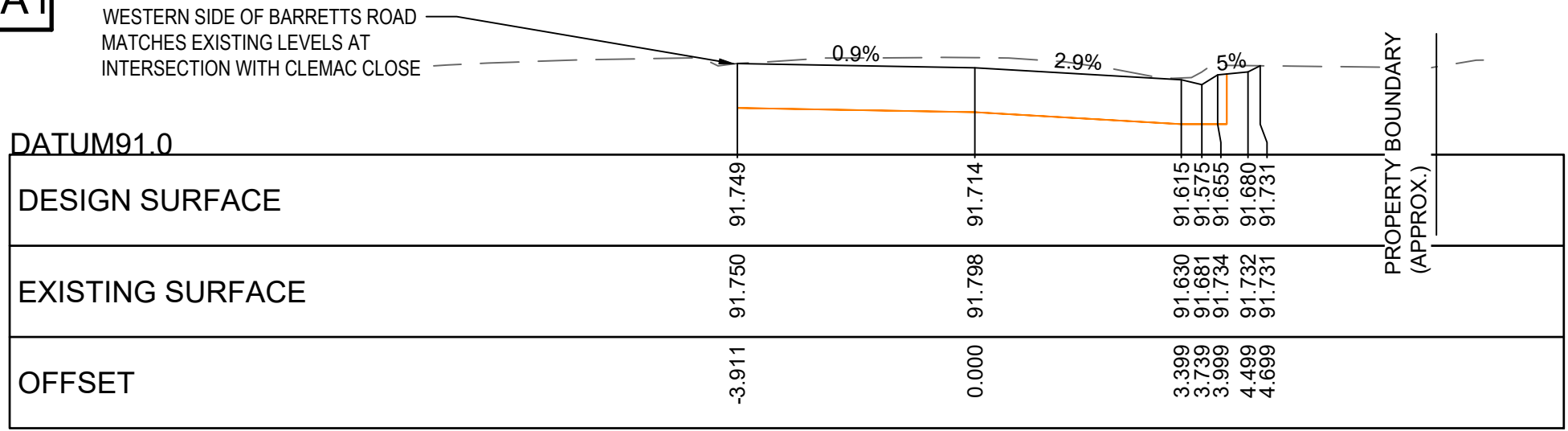
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CONSTRUCTION ISSUE

AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS - SHEET 2 OF 14				
ORIGINAL ISSUE - FLP		04-10-19	00	1	DRAWN TB (JCA)		FILE No. 25340 C5.dwg					
DETAILED DESIGN		19-12-19	01	2								
SERVICE PROVING RESULTS ADDED		18-06-20	02	3	DESIGN TB (JCA)		DATUM AHD					
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CONSTRUCTION ISSUE		18-10-22	04	5	SURVEY JCA		COUNCIL APPROVAL MEETING No. / /					
				6								
				7	DESIGN CHECKED MD (JCA)		CONTRACT No.	SCALE	AS SHOWN		DRAWING No.	Rev. No.
				9	APPROVED BY C.W.C.						CWP4191/C502	04
				10								
				11			APPROVED BY Infrastructure Manager					
				12	DATE / /				DATE / /			

A1



CH 192.722

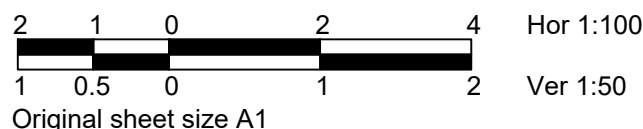
JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Maroonah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

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WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



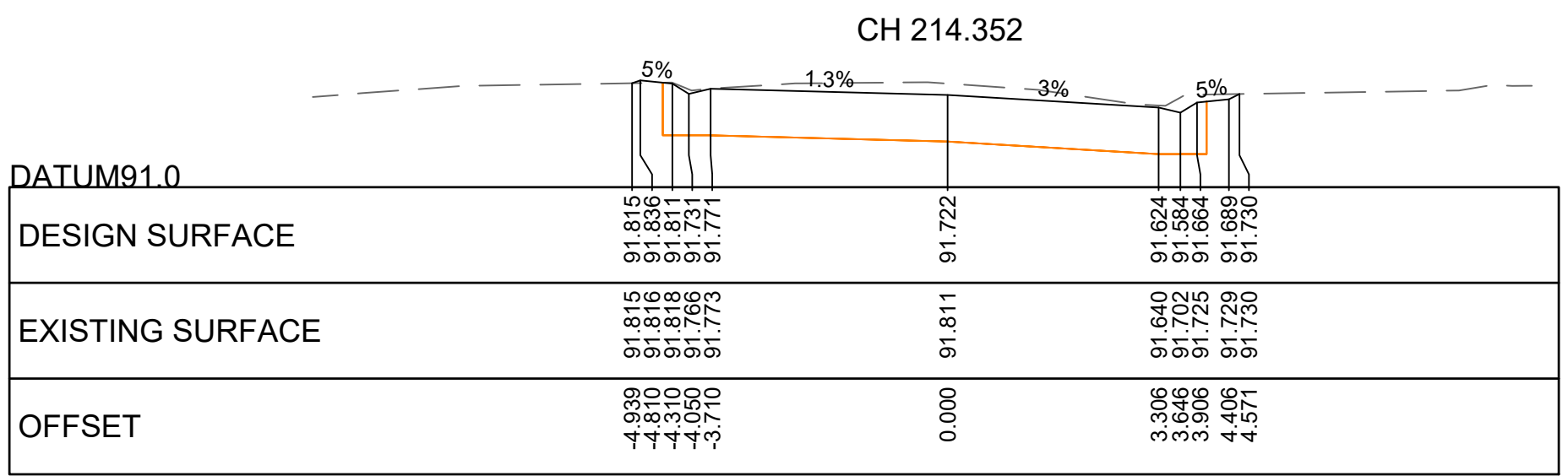
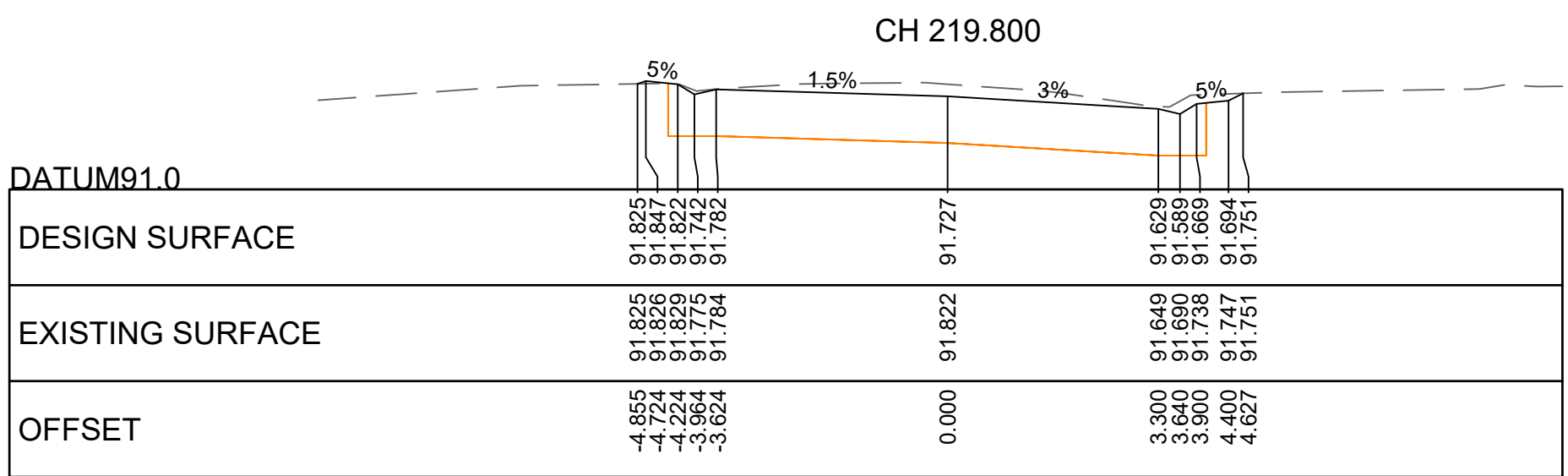
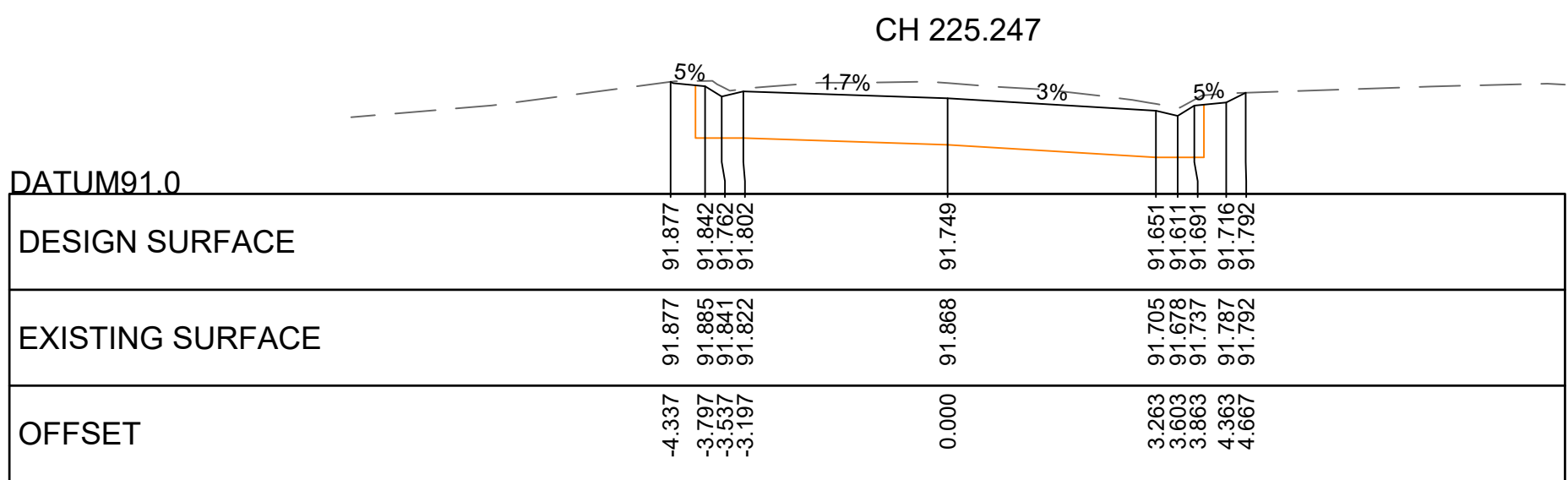
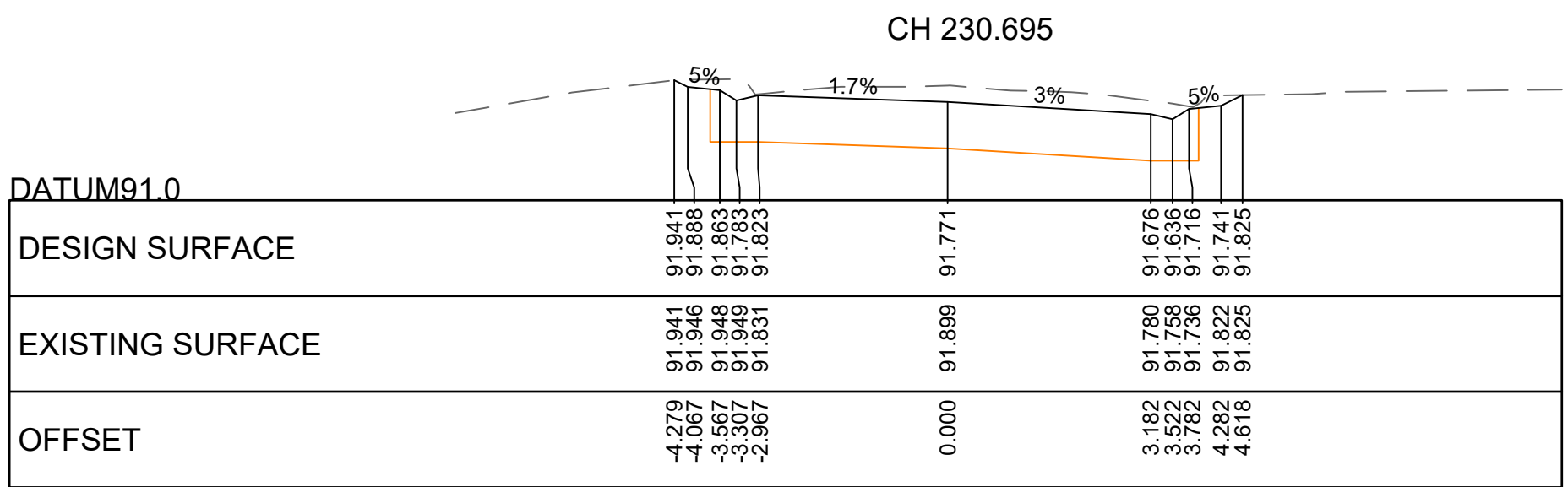
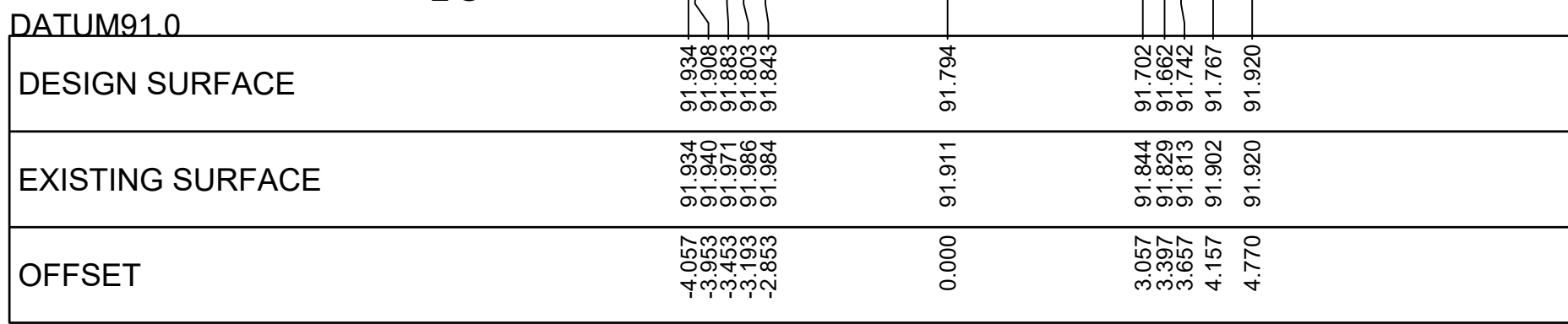
BARRETTS ROAD CROSS-SECTIONS



LEGEND									

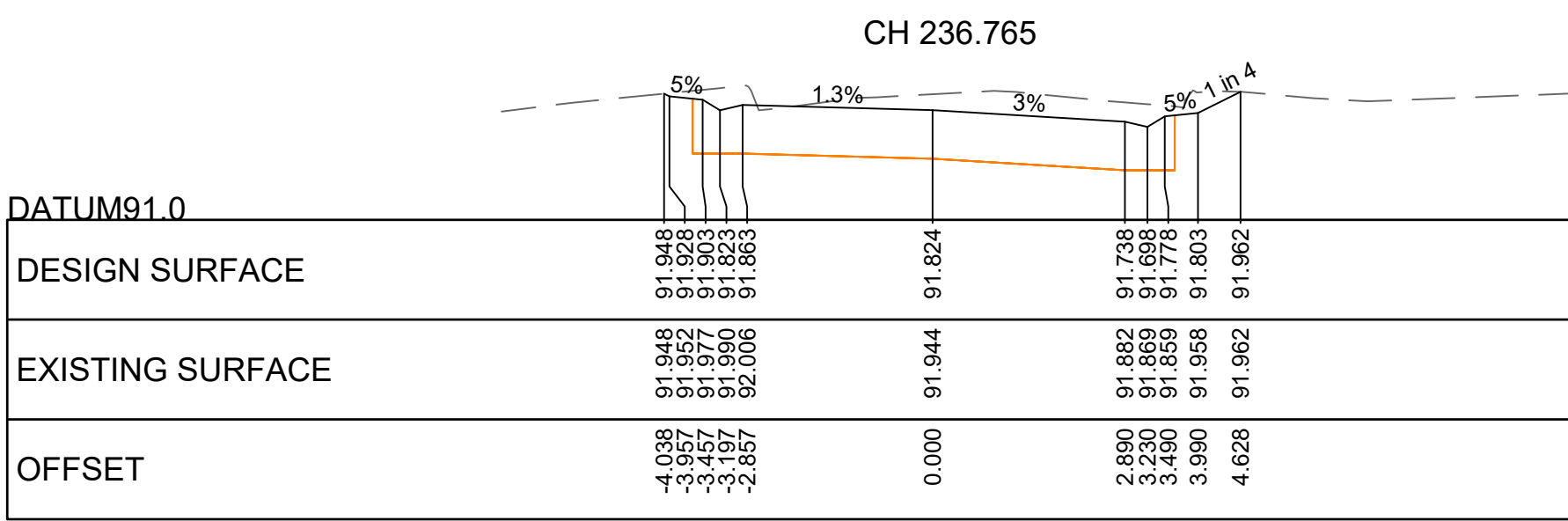
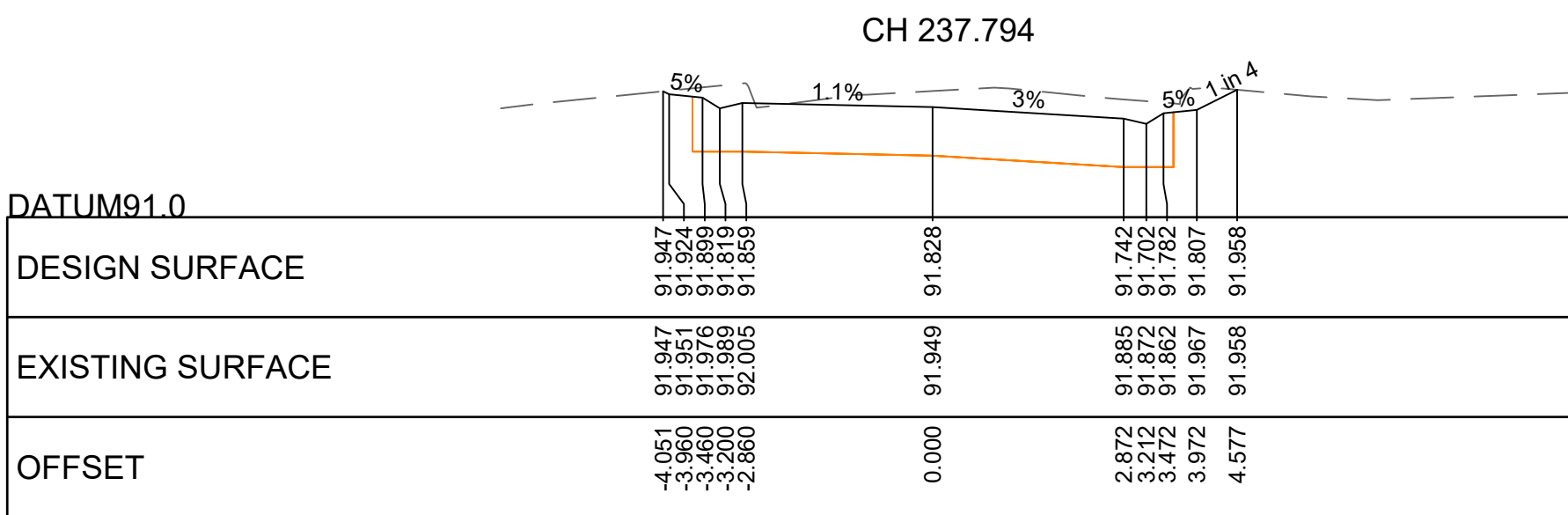
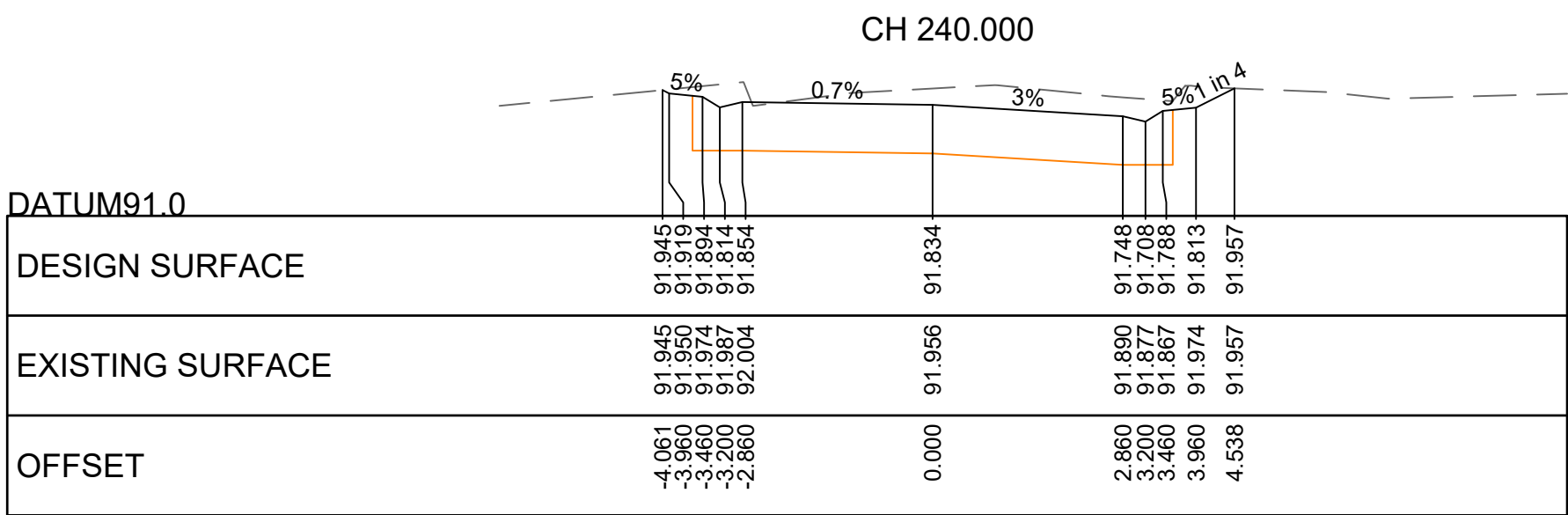
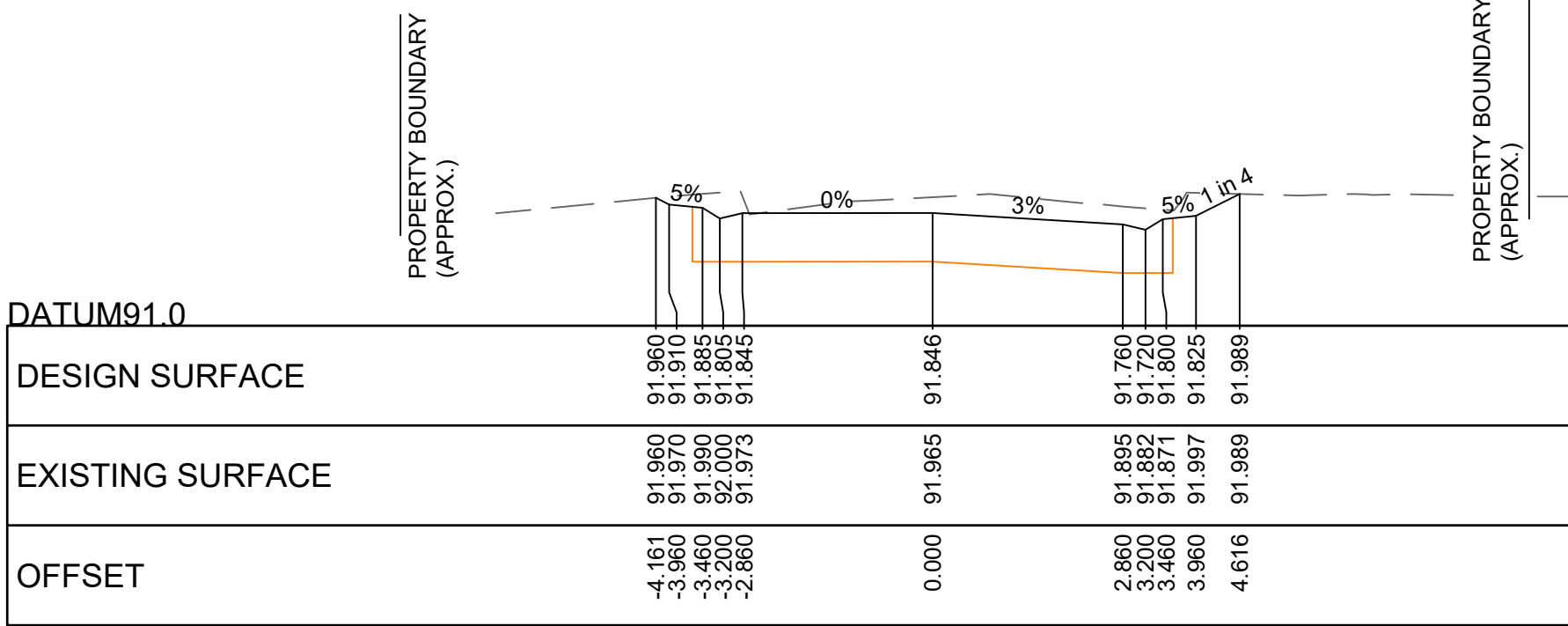


AMENDMENTS				INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS - SHEET 3 OF 14		
DATE	BY	No.							
04.10.19	00	1	ORIGINAL ISSUE - FLP	DRAWN	TB (JCA)	FILE No. 25340 C5.dwg	SCALE	AS SHOWN	DRAWING No. CWP4191/C503
19-12-19	01	2	DETAILED DESIGN						
18-06-20	02	3	SERVICE PROVING RESULTS ADDED	DESIGN	TB (JCA)	DATUM AHD	CONTRACT No.	COUNCIL APPROVAL MEETING No. / /	Rev. No.
03-09-20	03	4	LAWTON RESERVE FRONTAGE AMENDED						
18-10-22	04	5	CONSTRUCTION ISSUE	SURVEY	JCA		APPROVED BY Infrastructure Manager	DATE / /	04
		6							
		7		DESIGN CHECKED	MD (JCA)		APPROVED BY Infrastructure Manager	DATE / /	04
		8							
		9		APPROVED BY	C.W.C.		APPROVED BY Infrastructure Manager	DATE / /	04
		10							
		11					APPROVED BY Infrastructure Manager	DATE / /	04
		12		DATE / /					



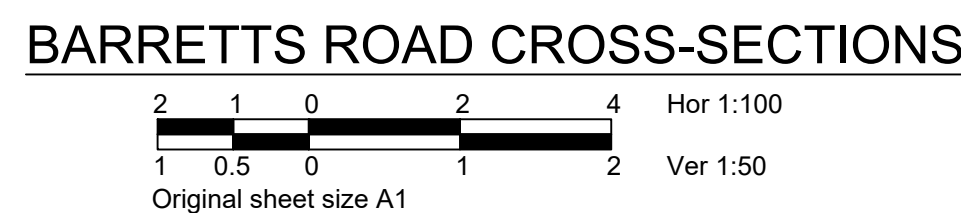
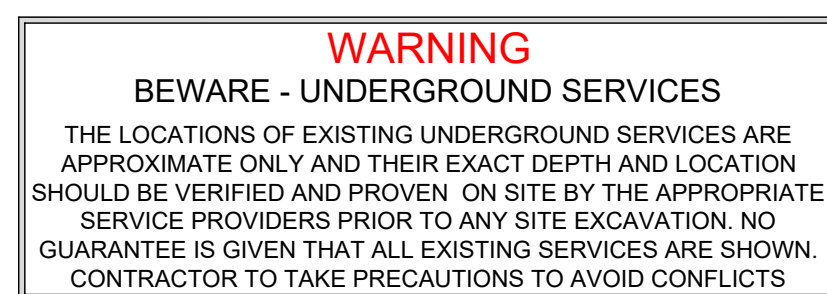
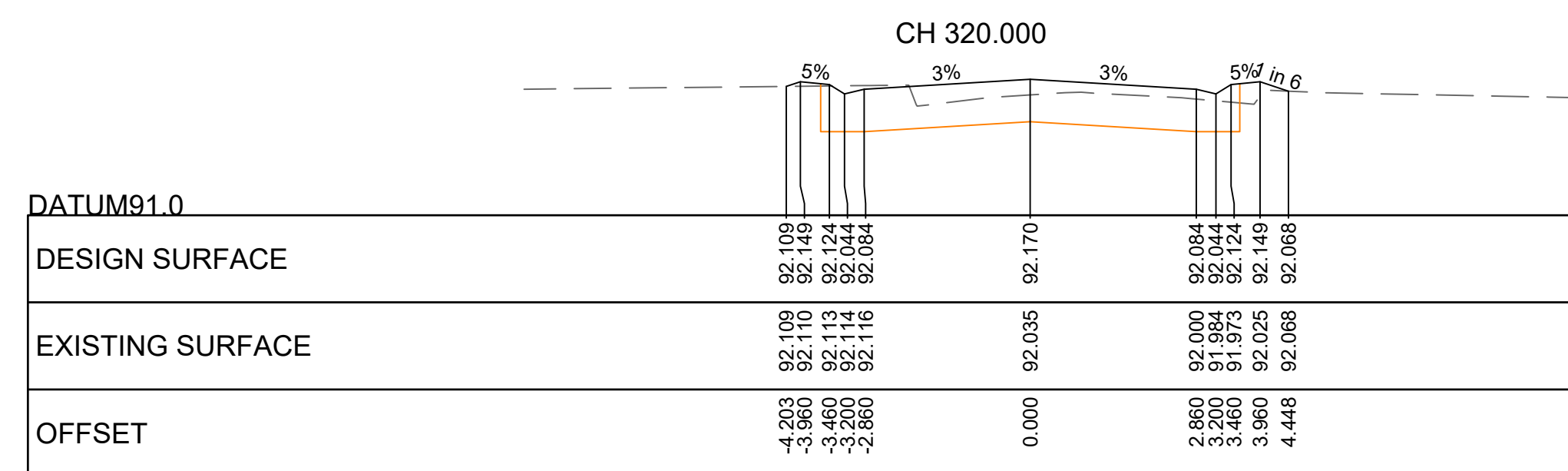
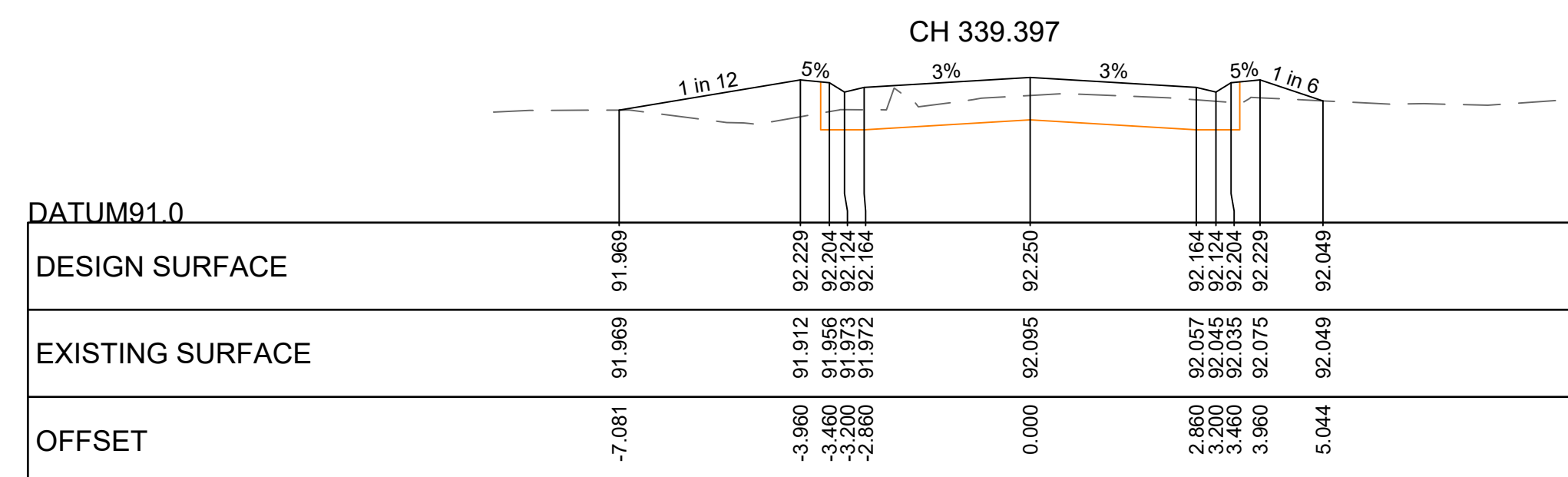
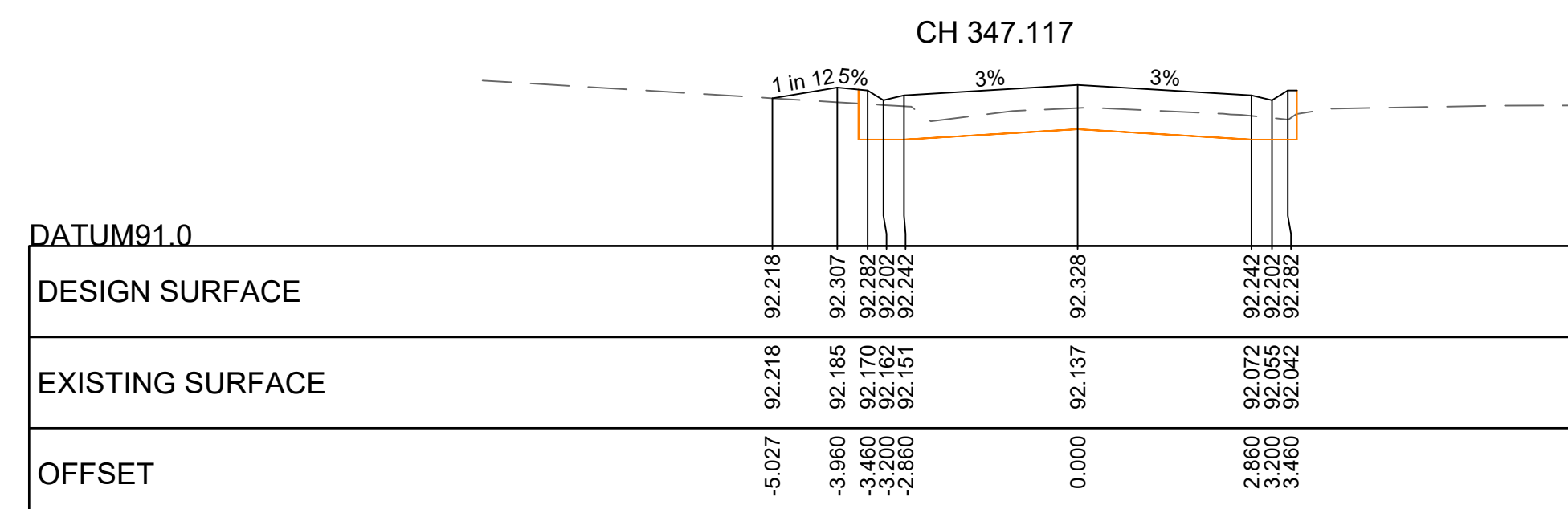
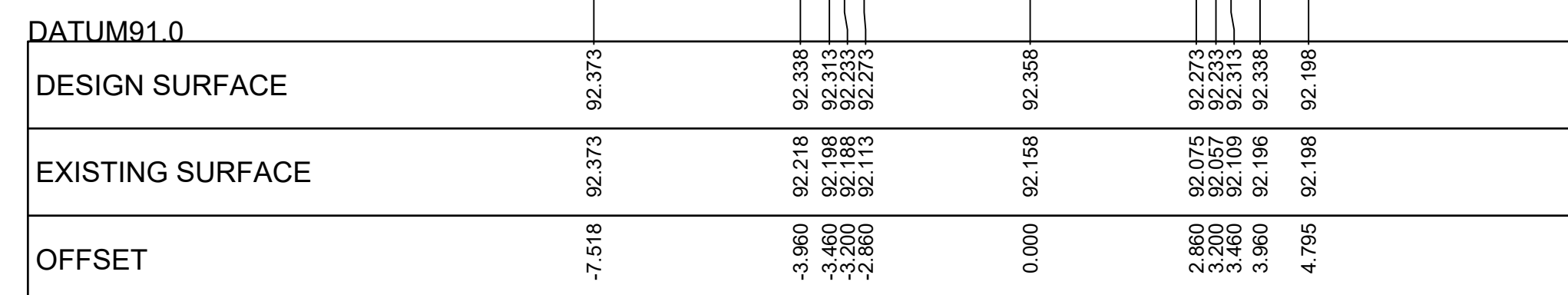
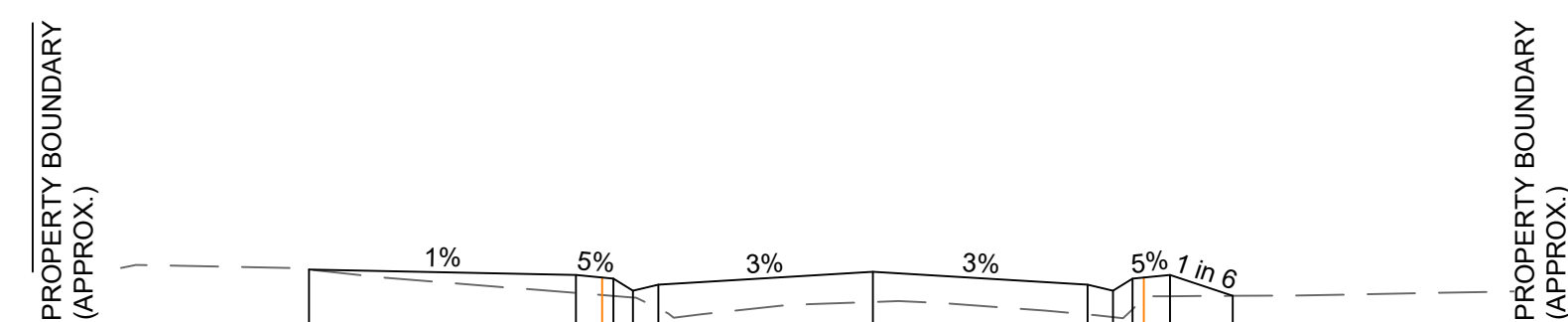
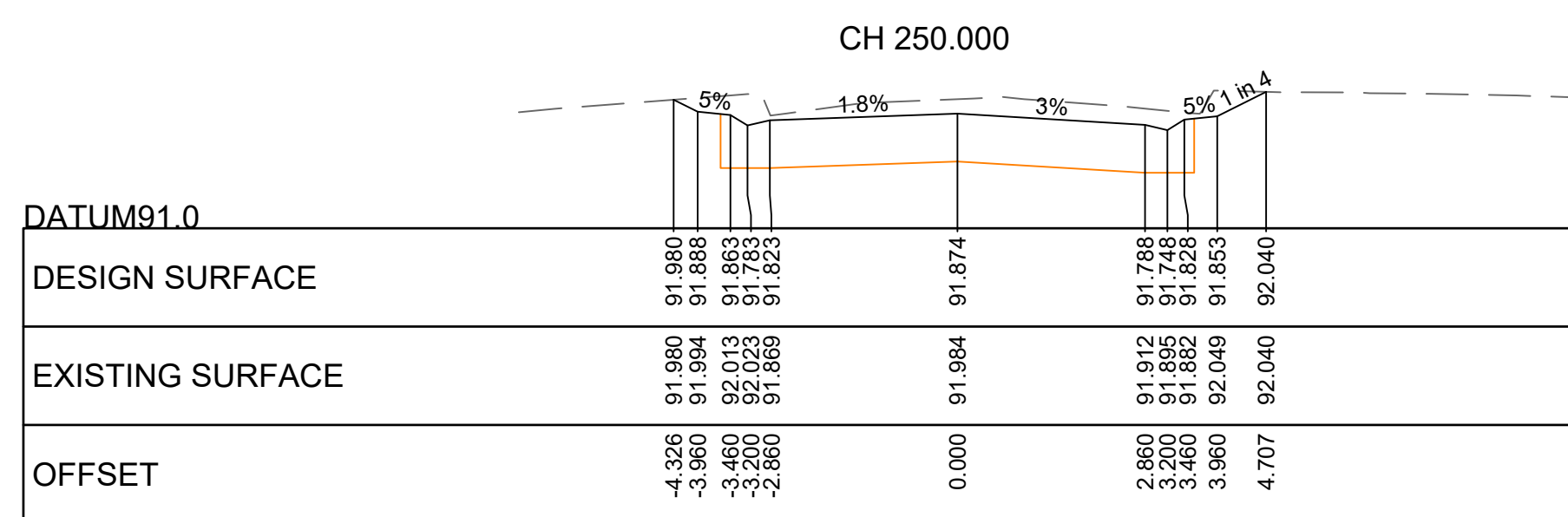
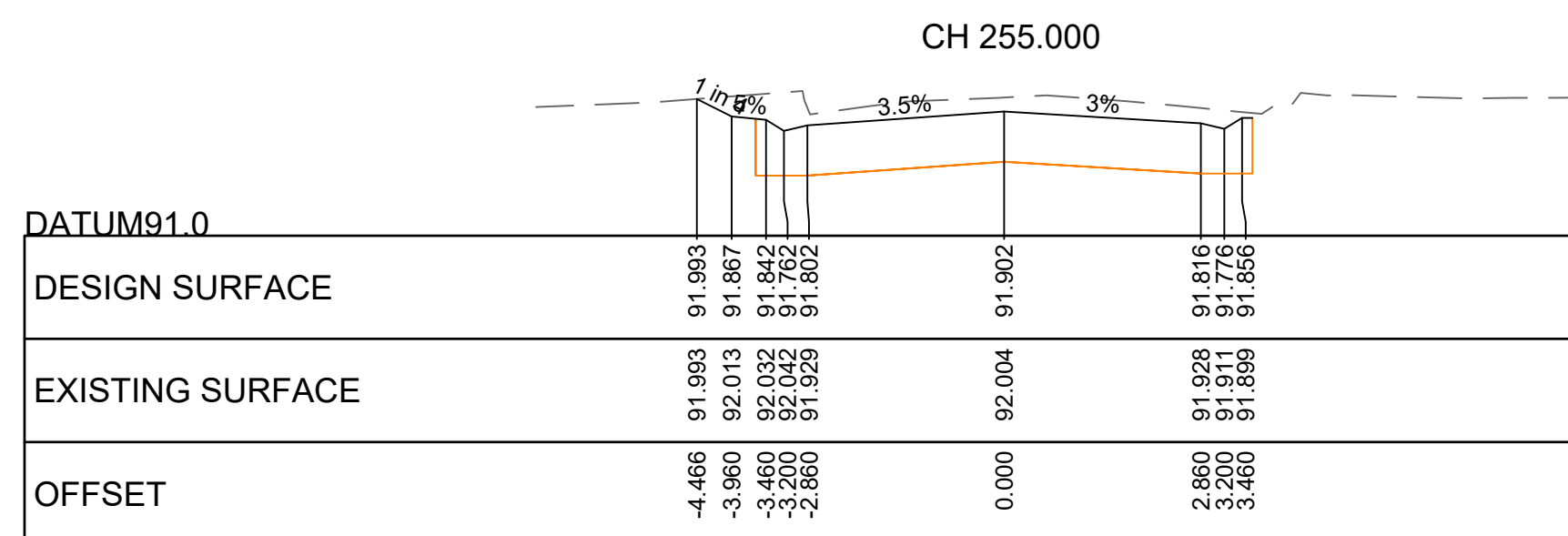
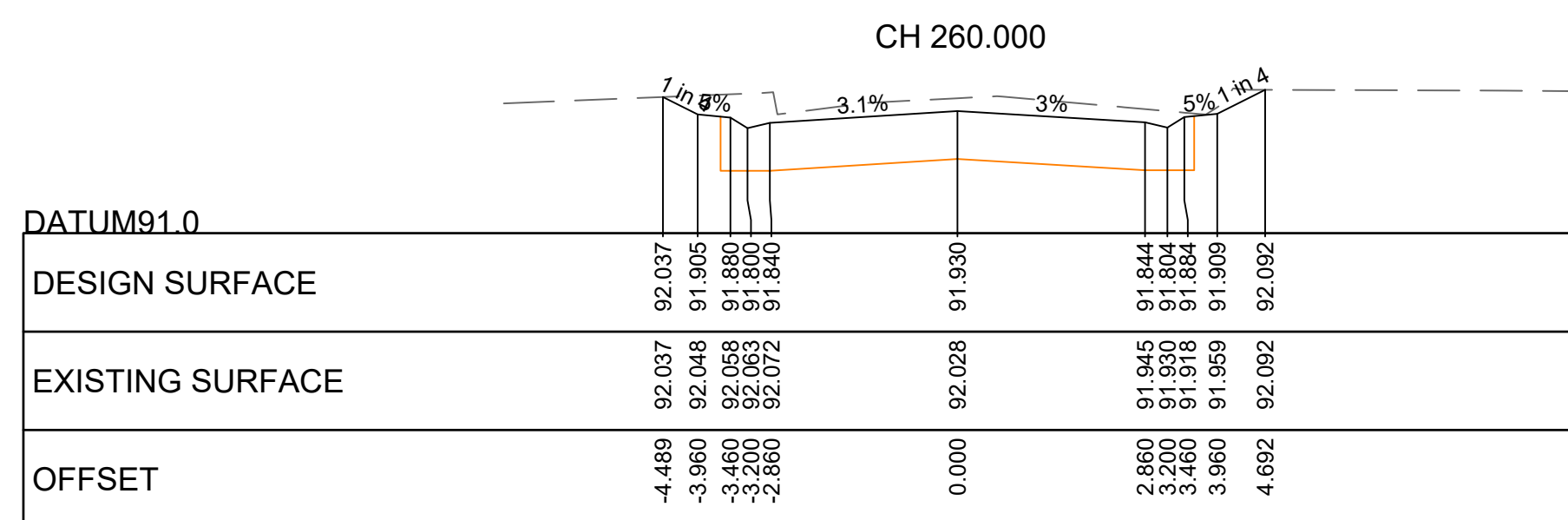
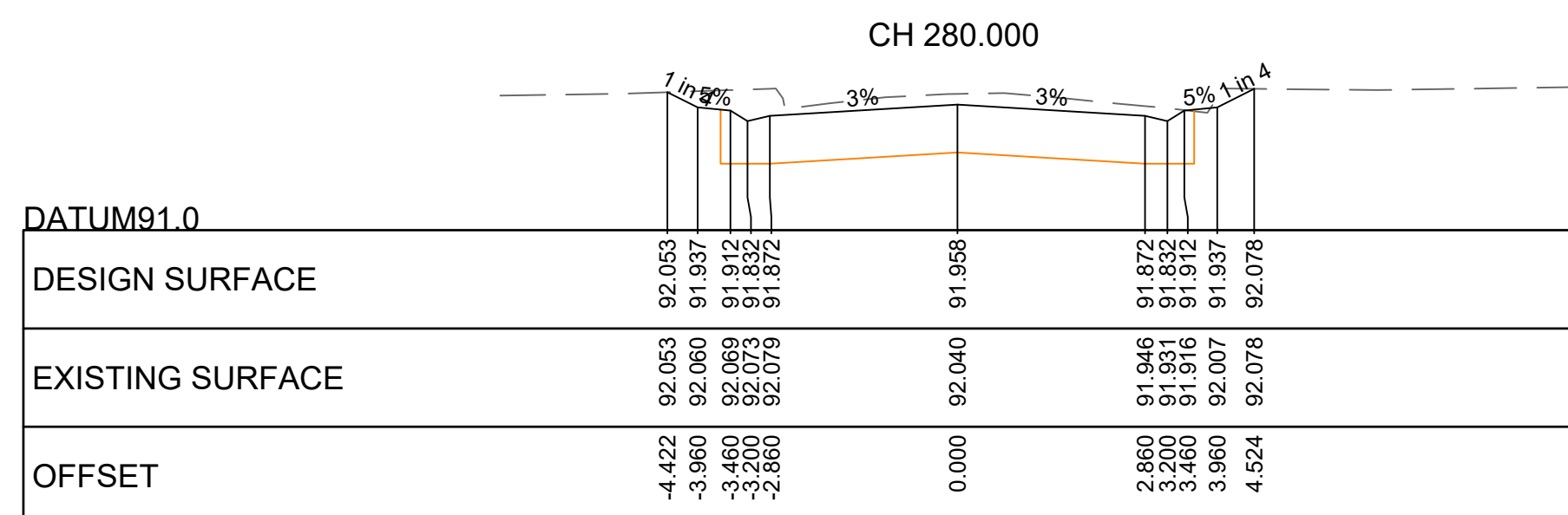
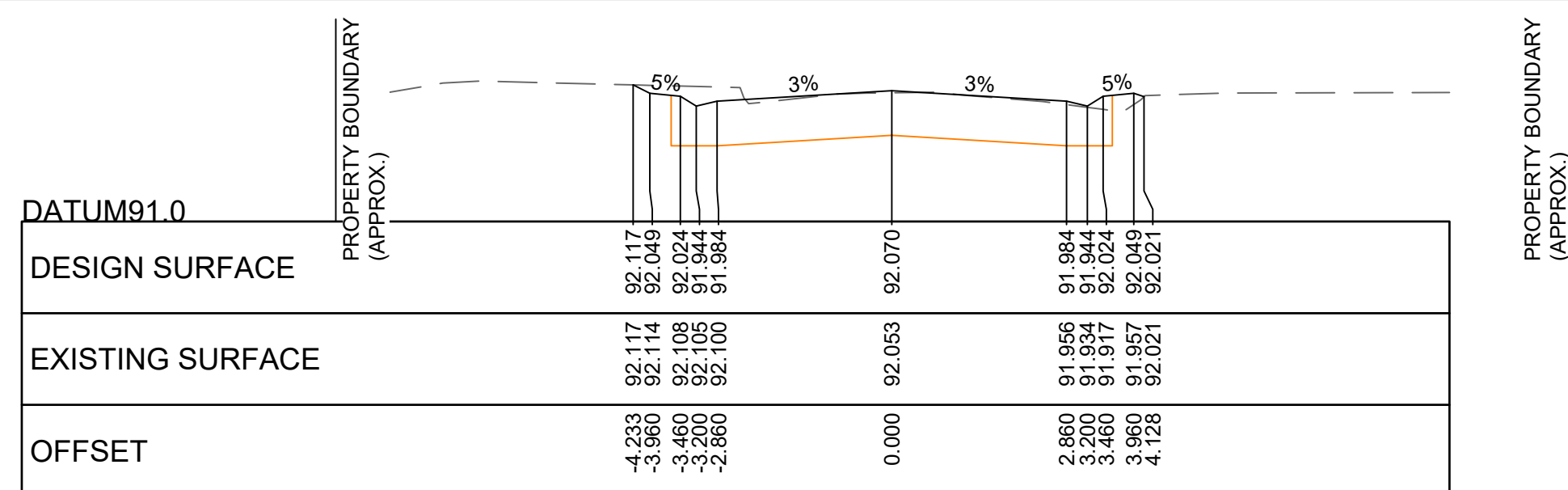
CH 213.109

CONSTRUCTION ISSUE

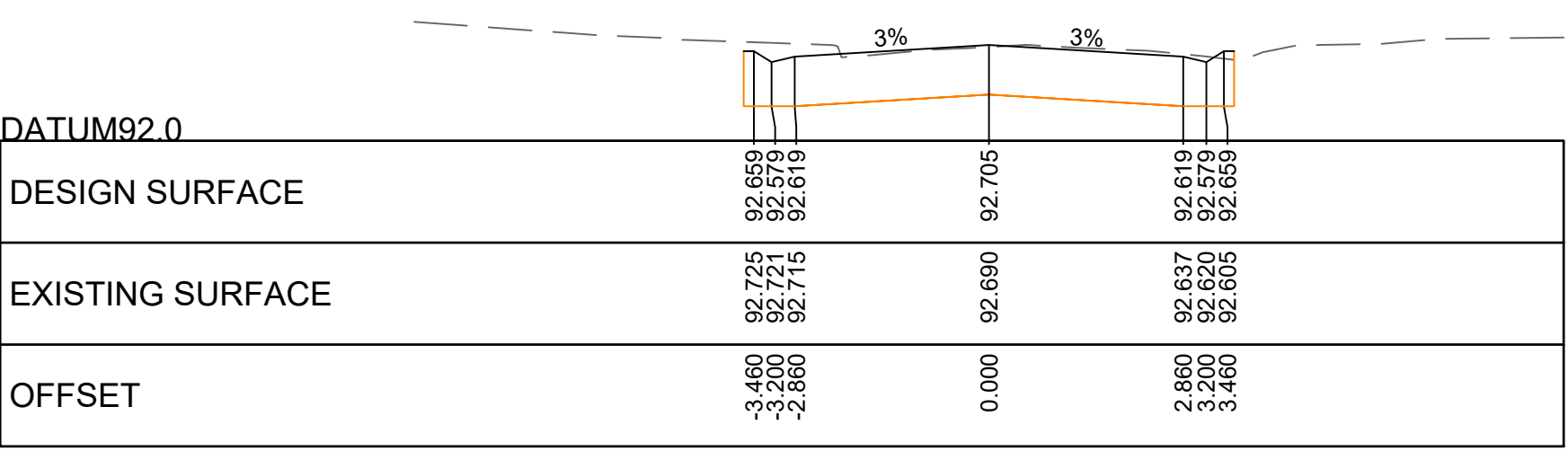
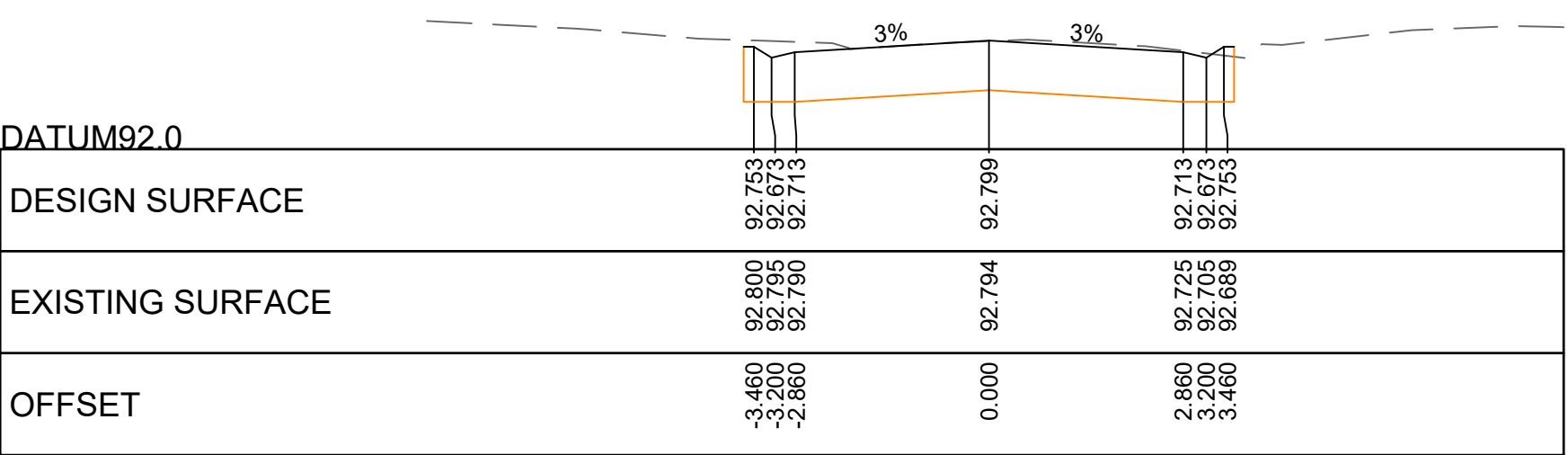
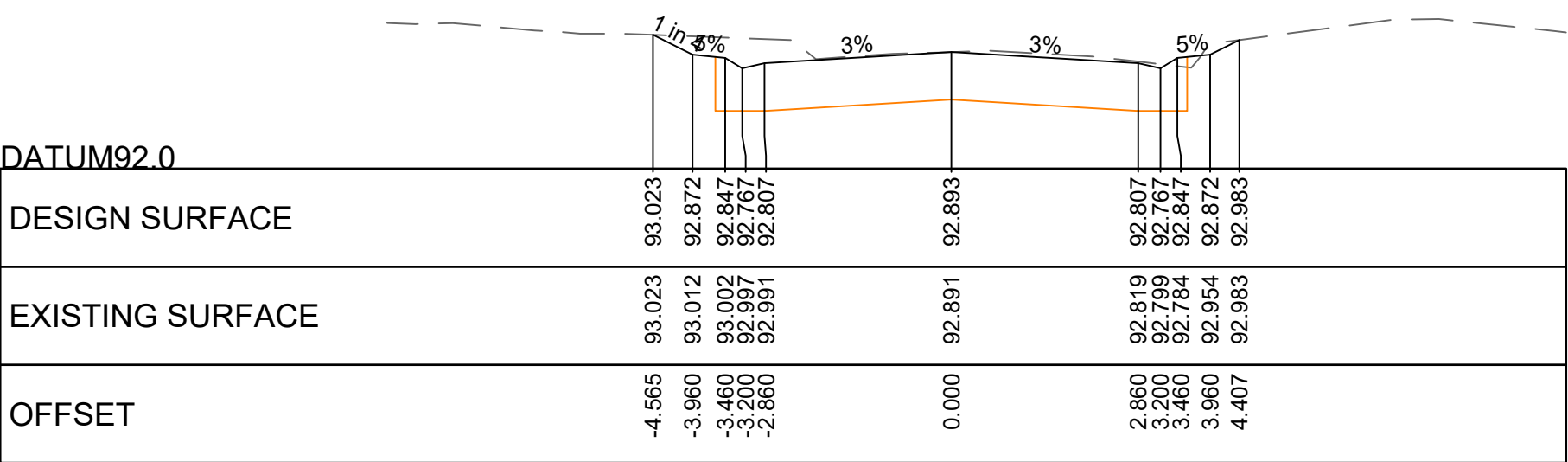
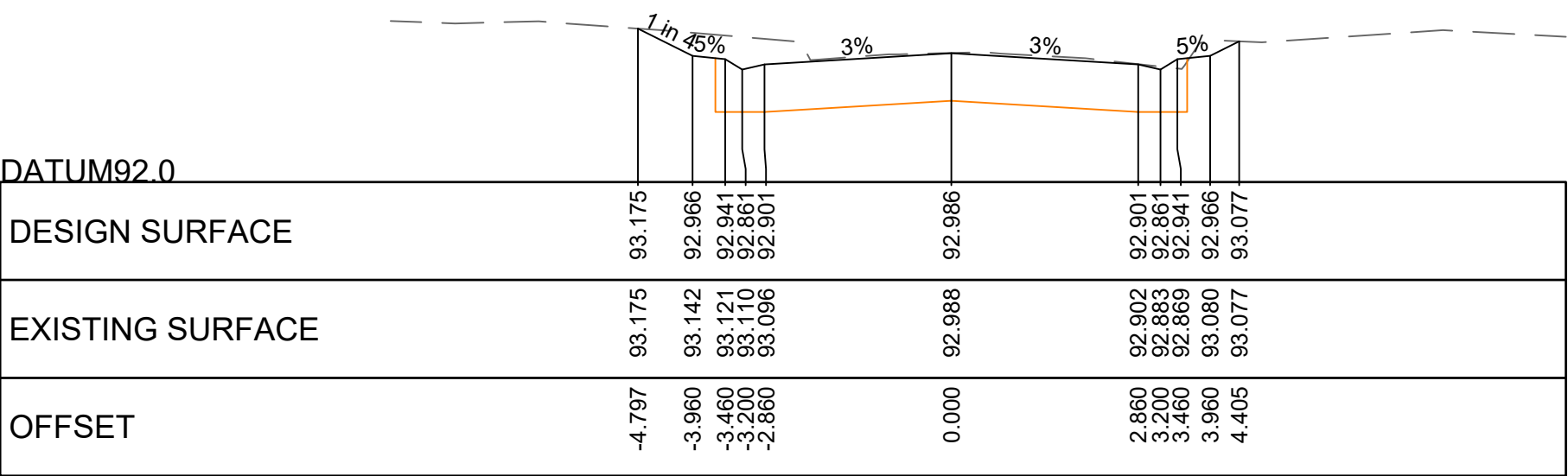
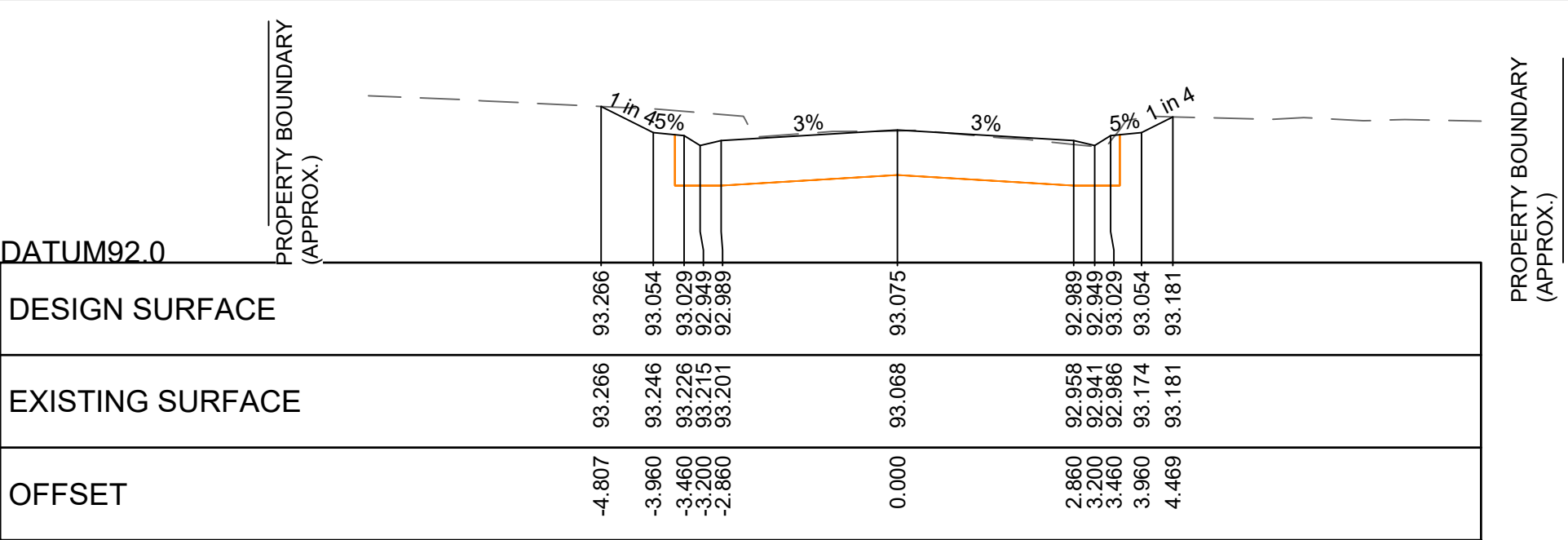
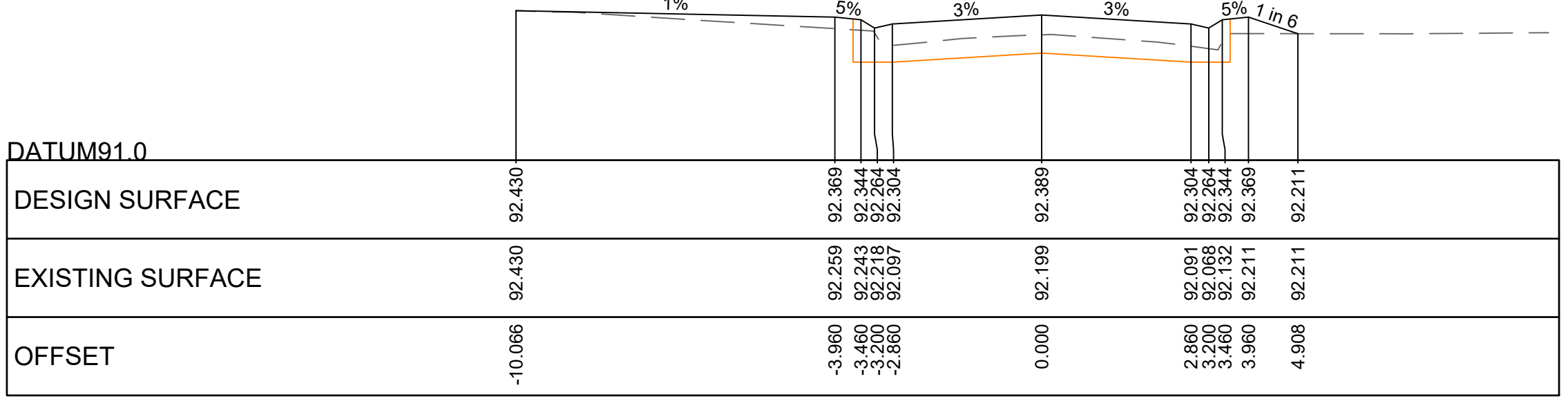
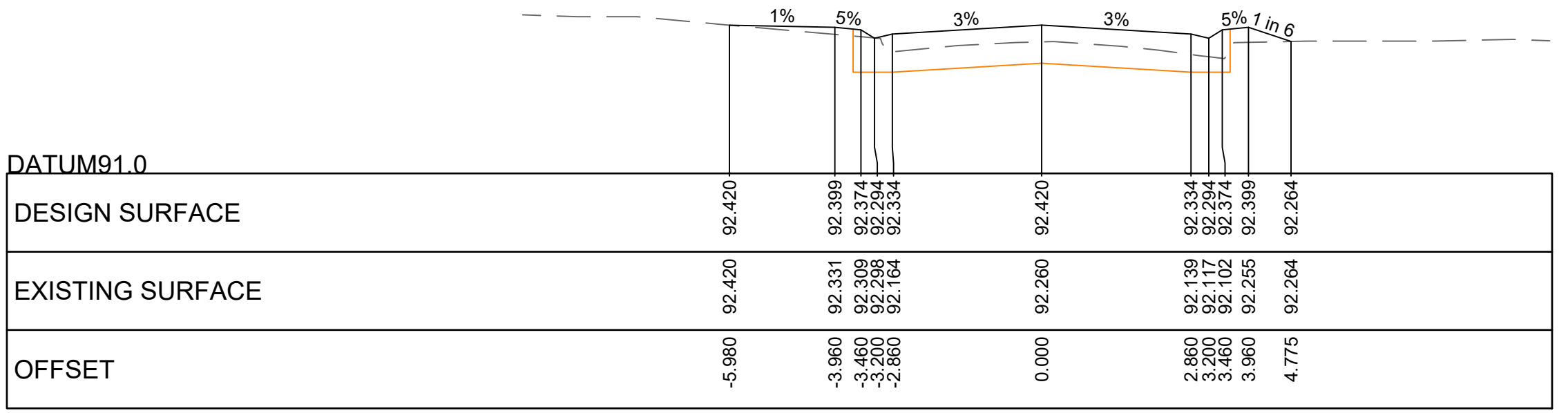
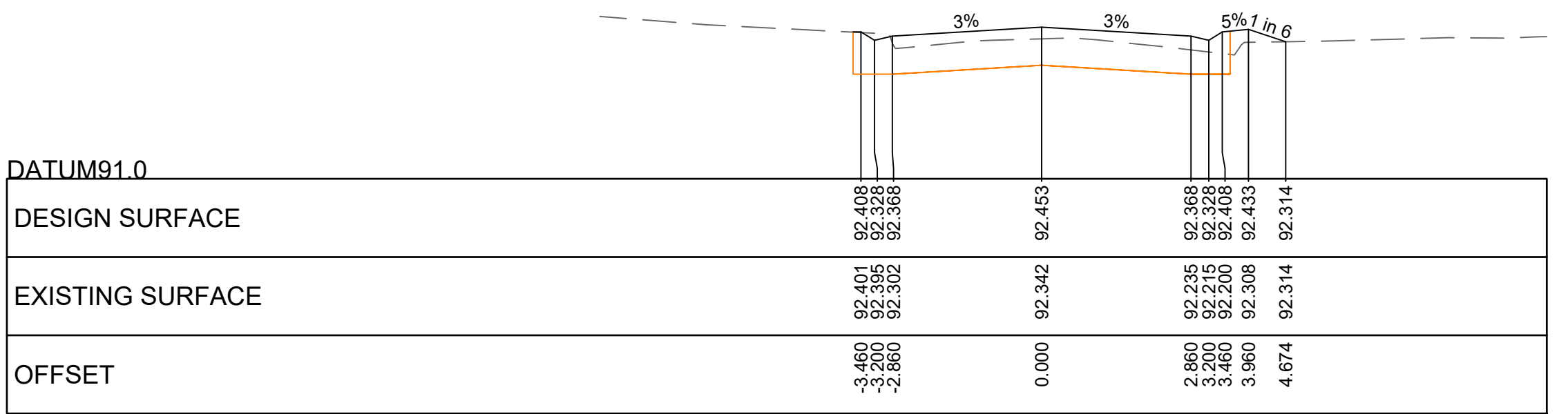
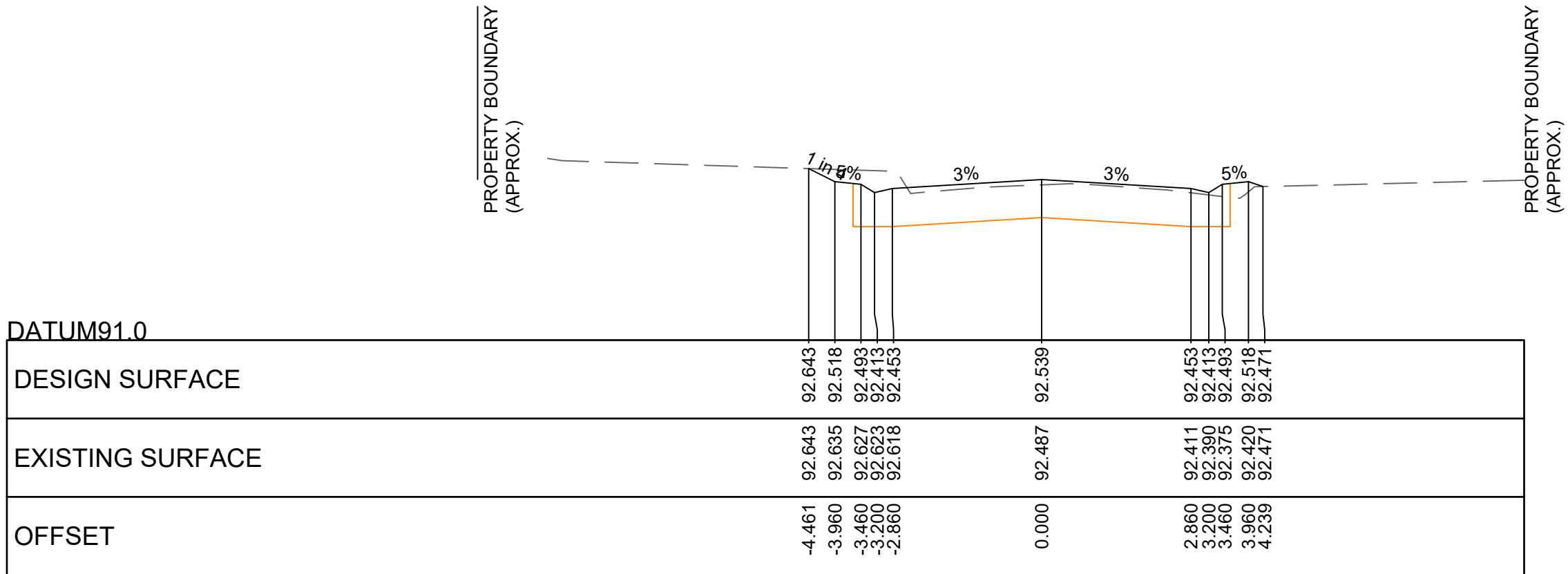


CH 236.142

CONSTRUCTION ISSUE

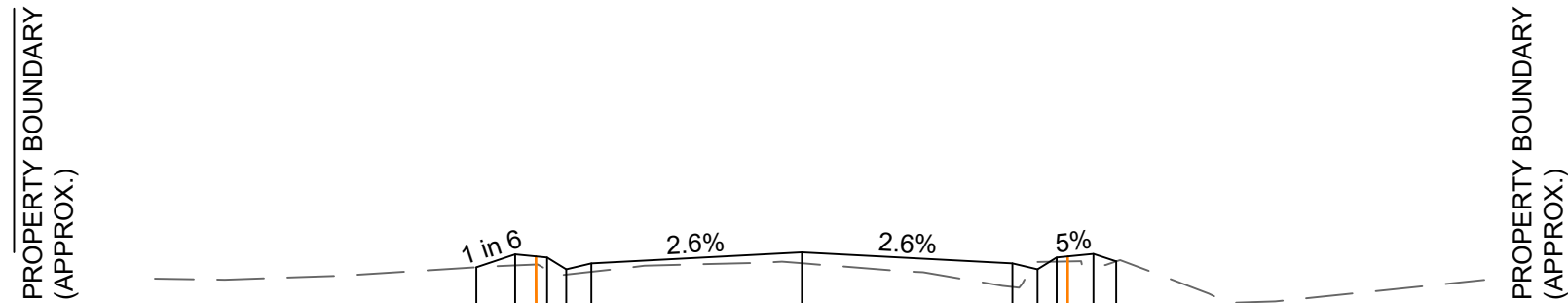


AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS SHEET - 4 OF 14				
ORIGINAL ISSUE - FLP				04.10.19	00	1	DRAWN TB (JCA)		FILE No. 25340 C5.dwg						
DETAILED DESIGN				19-12-19	01	2									
SERVICE PROVING RESULTS ADDED				18-06-20	02	3	DESIGN TB (JCA)		DATUM AHD						
LAWTON RESERVE FRONTAGE AMENDED				03-09-20	03	4									
CONSTRUCTION ISSUE				18-10-22	04	5	SURVEY JCA		COUNCIL APPROVAL MEETING No. / /						
						6									
						7	DESIGN				SCALE AS SHOWN		DRAWING No.		Rev. No.
						8	CHECKED MD (JCA)		CONTRACT No.				CWP4191/C504		
						9	APPROVED BY C.W.C.								
						10									
						11			APPROVED BY						04
						12	DATE / /		Infrastructure Manager		DATE / /				

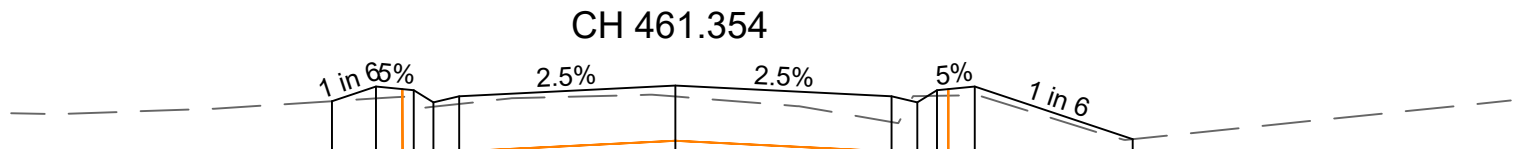


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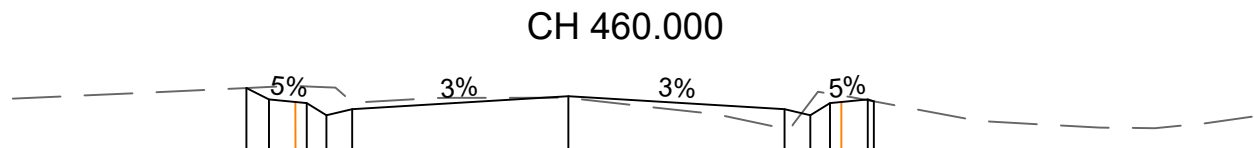
	AMENDMENTS		DATE	BY	NO.	INFRASTRUCTURE DEPARTMENT		BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS SHEET - 5 OF 14	
			04.10.19	00	1	DRAWN	TB (JCA)		
		ORIGINAL ISSUE - FLP		19-12-19	01	2		FILE No.	25340 C5.dwg
		DETAILED DESIGN		18-06-20	02	3	DESIGN	DATUM	AHD
		SERVICE PROVING RESULTS ADDED		03-09-20	03	4		COUNCIL APPROVAL	MEETING No. / /
		LAWTON RESERVE FRONTAGE AMENDED		18-10-22	04	5	SURVEY	CONTRACT No.	
		CONSTRUCTION ISSUE				6		APPROVED BY	C.W.C.
						7	DESIGN CHECKED	MD (JCA)	
						8			
						9	APPROVED BY		
						10			
						11			
						12	DATE / /		



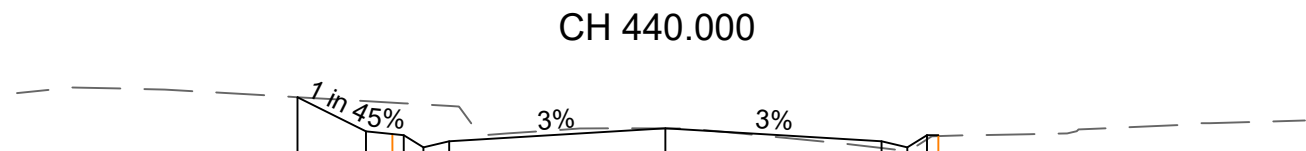
DATUM92.0				
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EXISTING SURFACE	93.381	93.381	93.381	93.381
OFFSET	-4.422	-3.886	0.000	2.860



DATUM92.0				
DESIGN SURFACE	93.376	93.376	93.376	93.376
EXISTING SURFACE	93.376	93.376	93.376	93.376
OFFSET	-4.543	-3.960	0.000	2.860

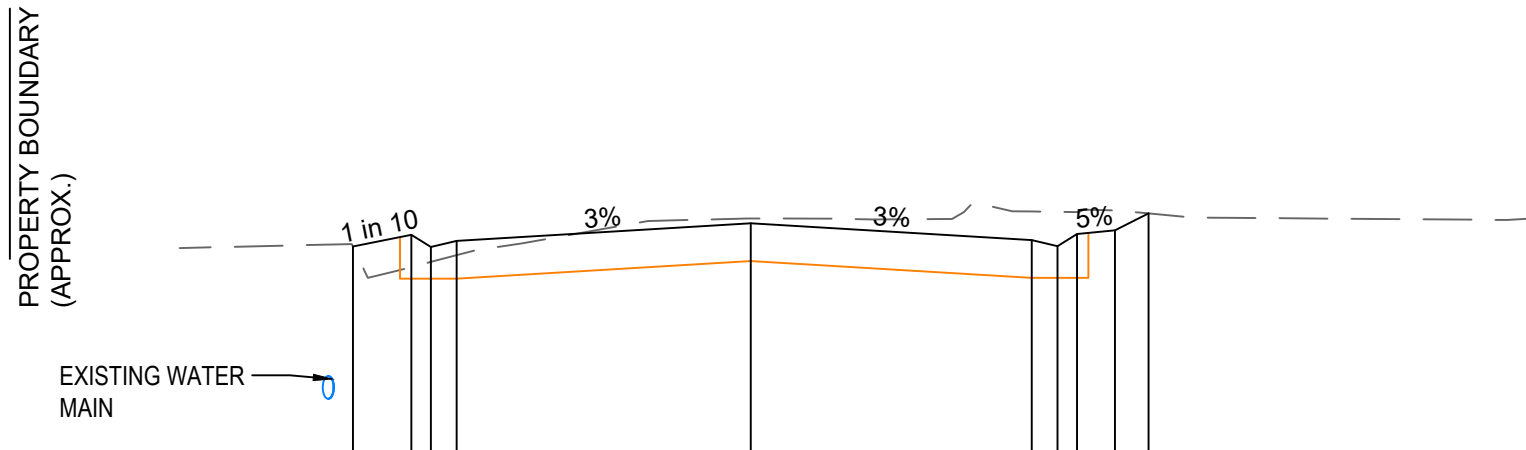


DATUM92.0				
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EXISTING SURFACE	93.396	93.396	93.396	93.396
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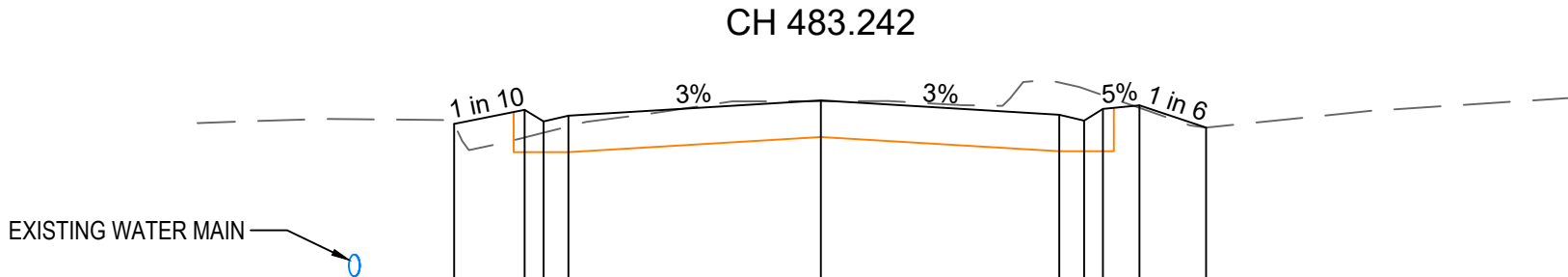


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EXISTING SURFACE	93.385	93.385	93.385	93.385
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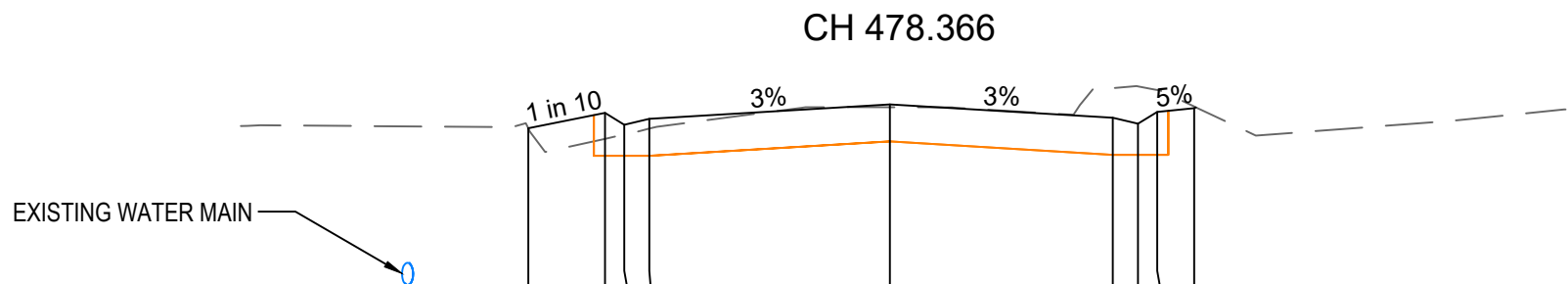
CH 420.000



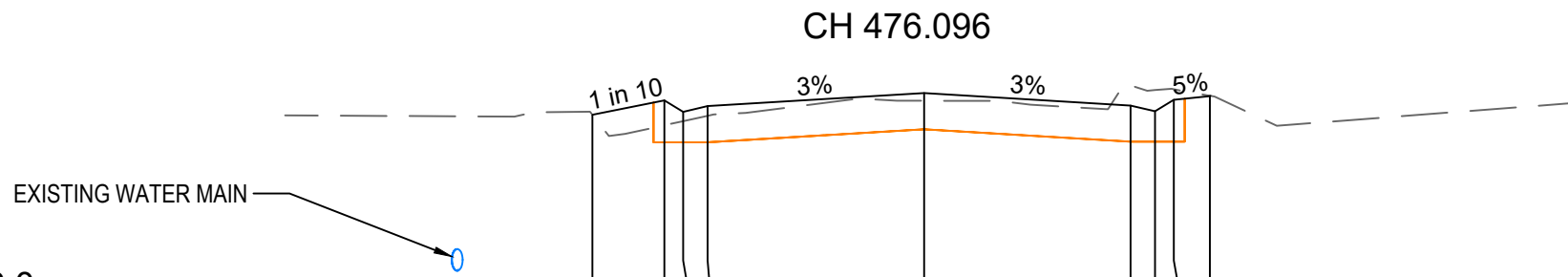
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EXISTING SURFACE	93.089	93.089	93.089	93.089
OFFSET	-5.262	-4.489	0.000	3.718



DATUM91.0				
DESIGN SURFACE	93.177	93.177	93.177	93.177
EXISTING SURFACE	93.177	93.177	93.177	93.177
OFFSET	-5.033	-4.065	0.000	3.273



DATUM92.0				
DESIGN SURFACE	93.213	93.213	93.213	93.213
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OFFSET	-4.889	-3.960	0.000	3.016



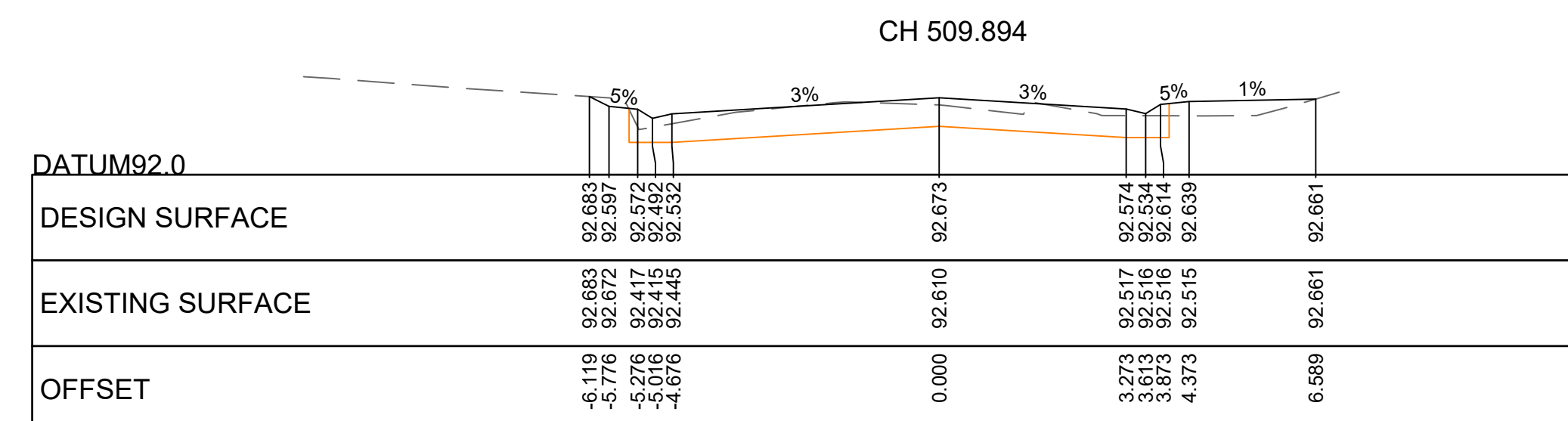
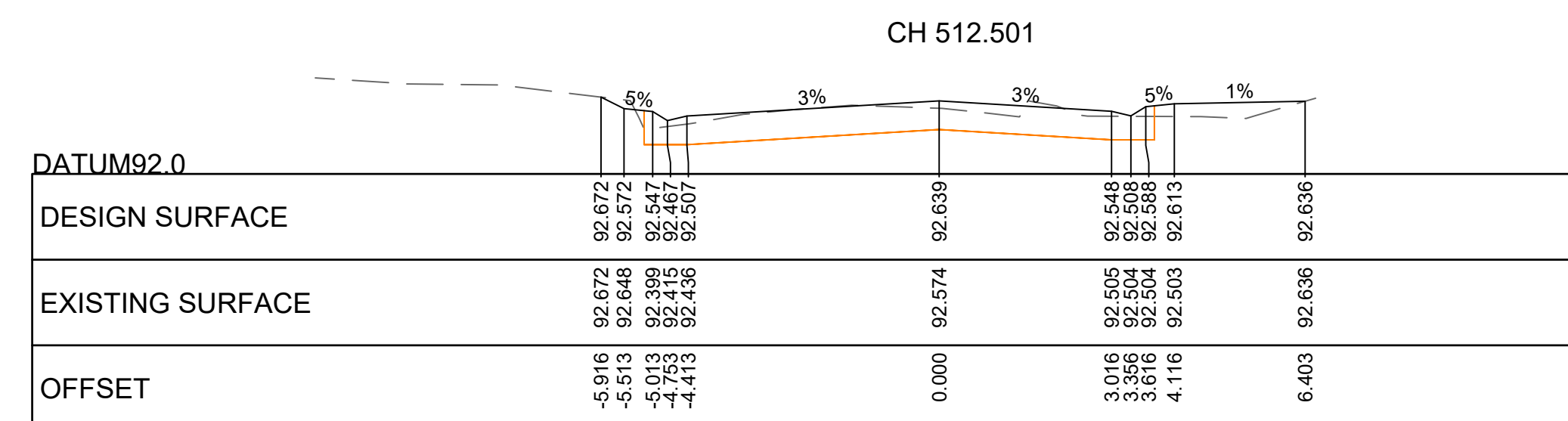
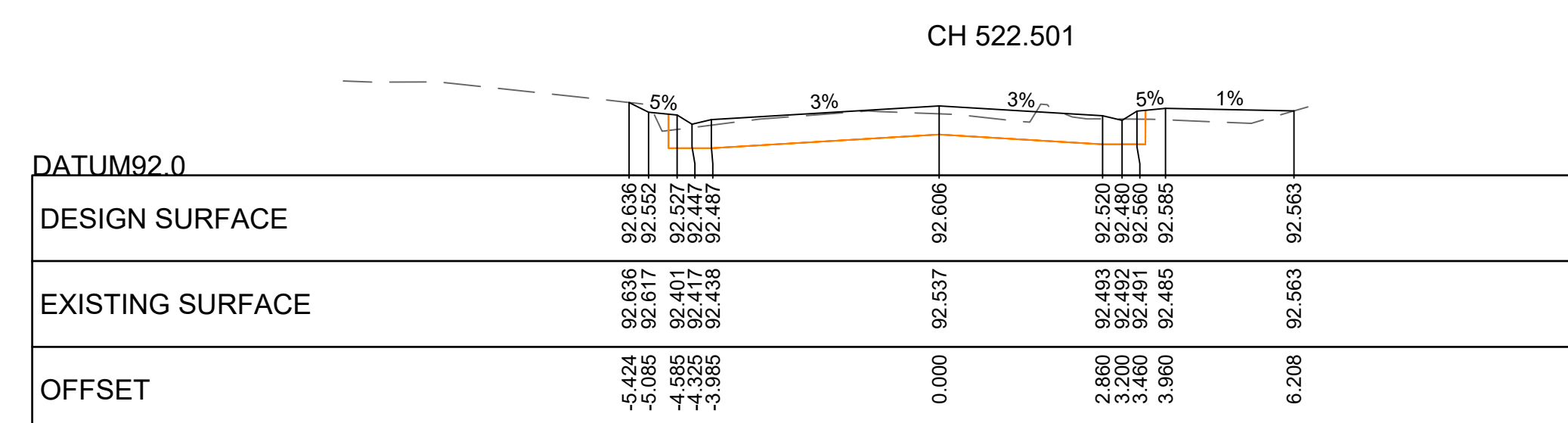
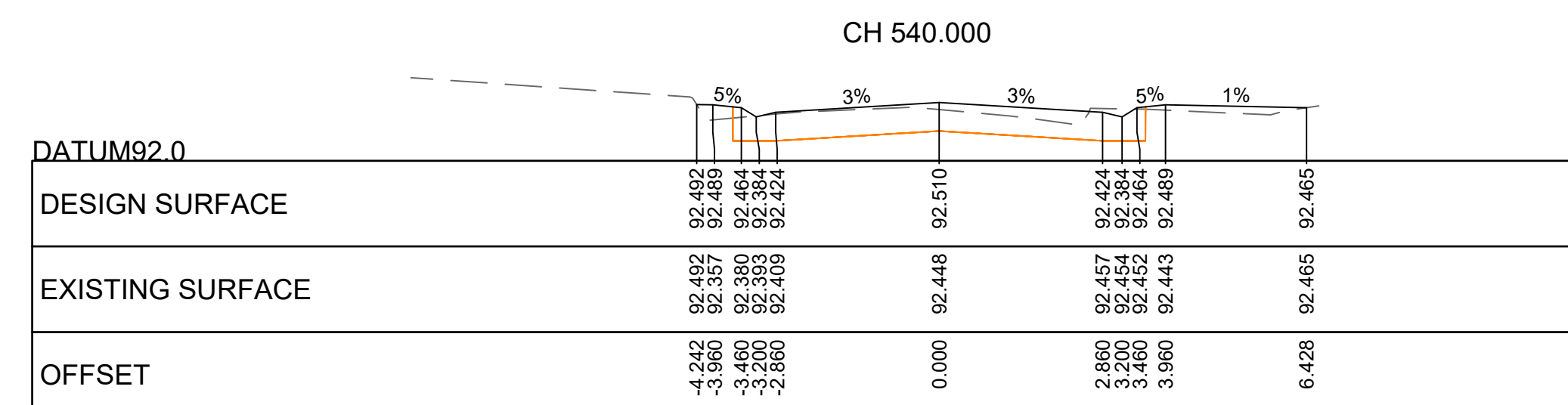
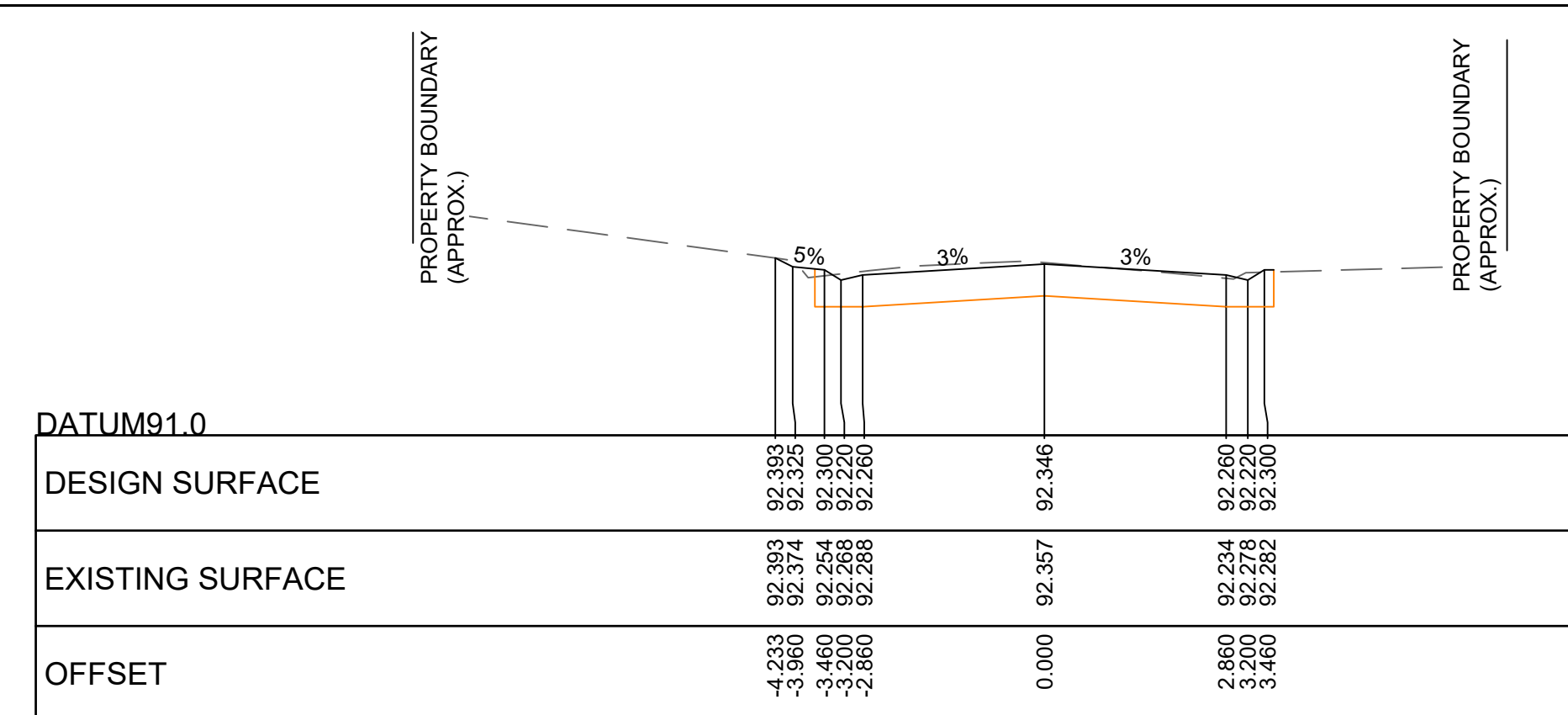
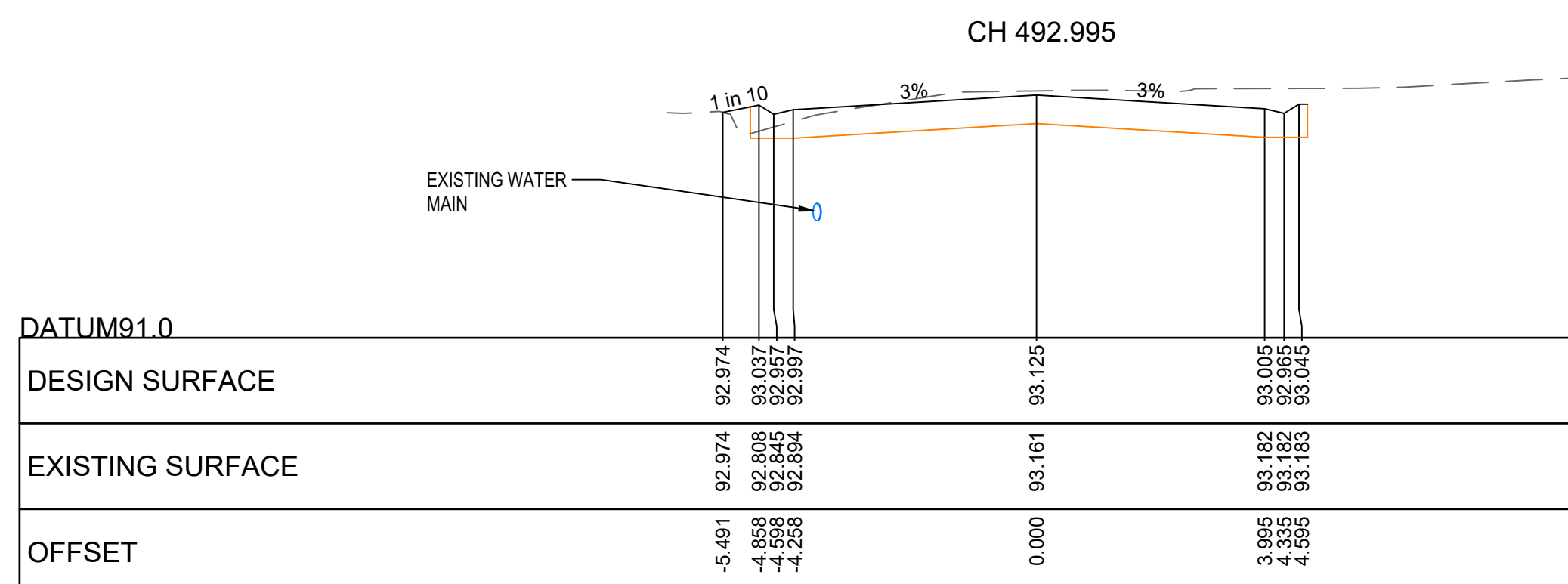
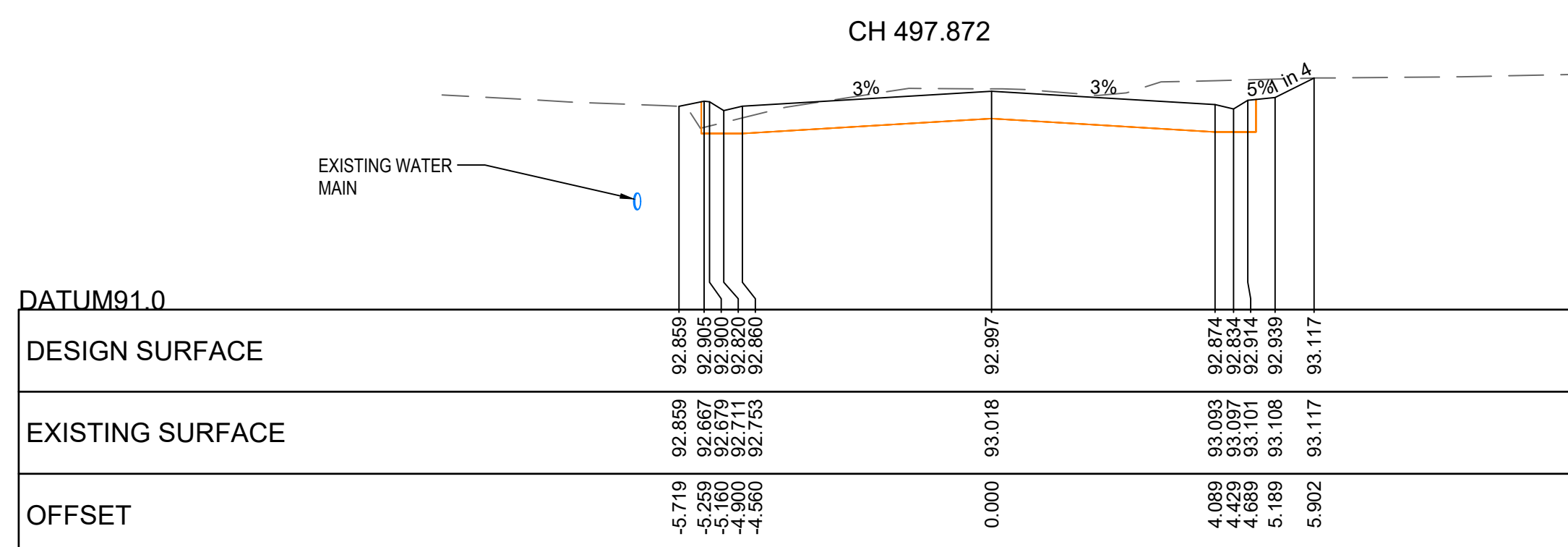
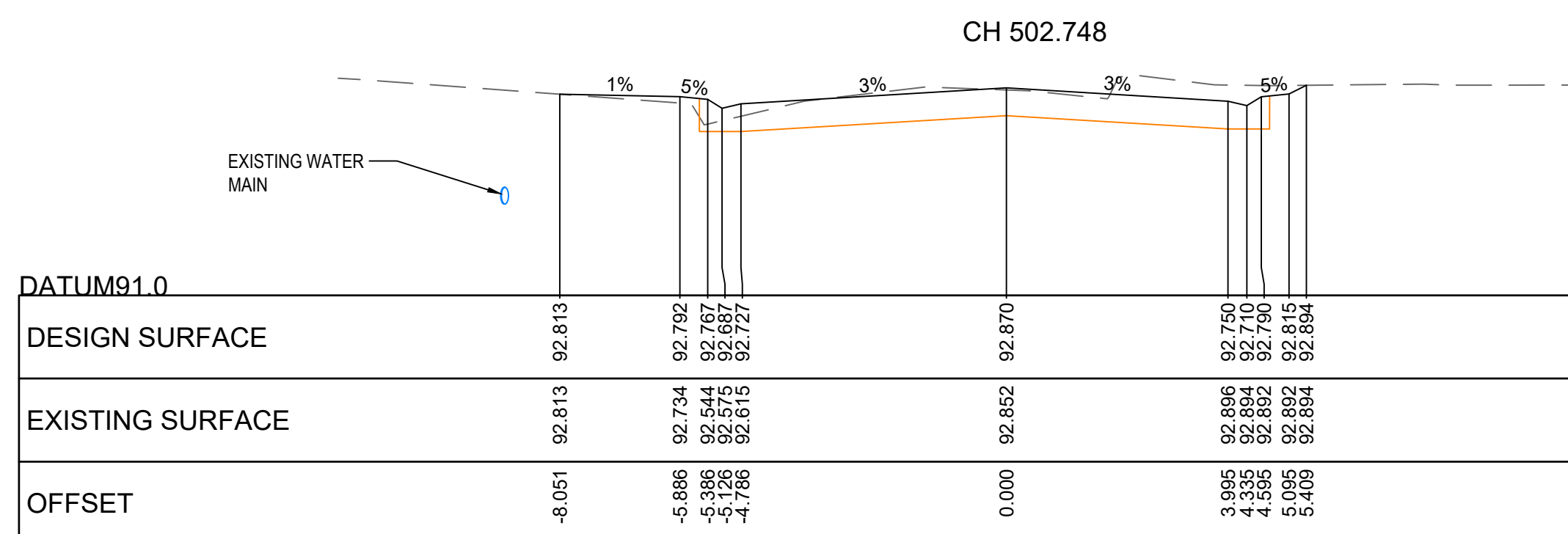
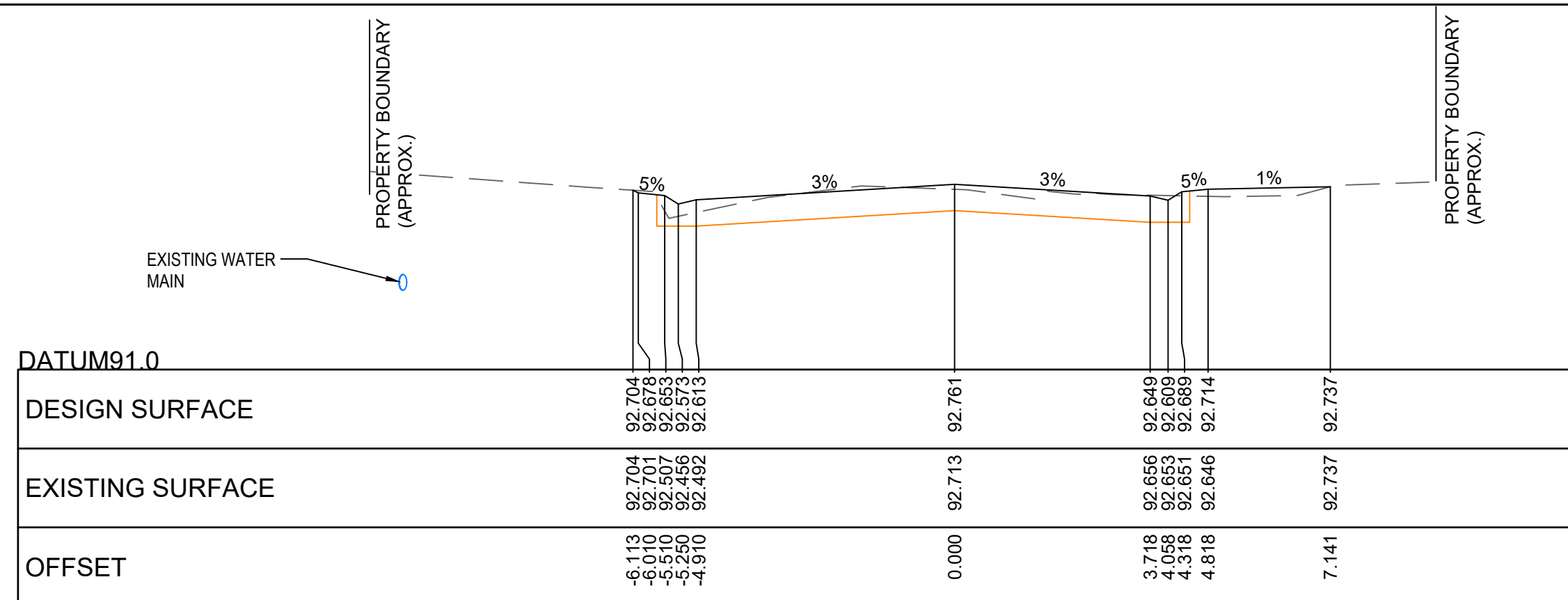
DATUM92.0				
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EXISTING SURFACE	93.259	93.259	93.259	93.259
OFFSET	-4.595	-3.960	0.000	2.860

CH 473.489

LEGEND									

AMENDMENTS				INFRASTRUCTURE DEPARTMENT			
ORIGINAL ISSUE - FLP	04.10.19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C5.dwg
DETAILED DESIGN	19-12-19	01	2	DESIGN	TB (JCA)	DATUM	AHD
SERVICE PROVING RESULTS ADDED	18-06-20	02	3			COUNCIL APPROVAL	MEETING No. / /
LAWTON RESERVE FRONTAGE AMENDED	03-09-20	03	4			CONTRACT No.	
CONSTRUCTION ISSUE	18-10-22	04	5			APPROVED BY	C.W.C.
			6			APPROVED BY	Infrastructure Manager
			7			DATE	/ /
			8				
			9				
			10				
			11				
			12				

BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION				Rev. No.	
BARRETTS ROAD CROSS-SECTIONS - SHEET 6 OF 14				04	



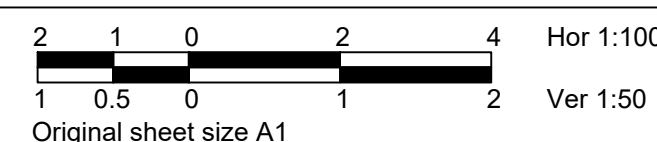
WARNING
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CH 488.119

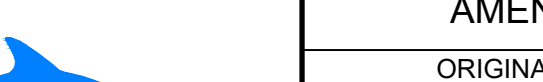
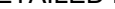
BARRETTS ROAD CROSS-SECTIONS



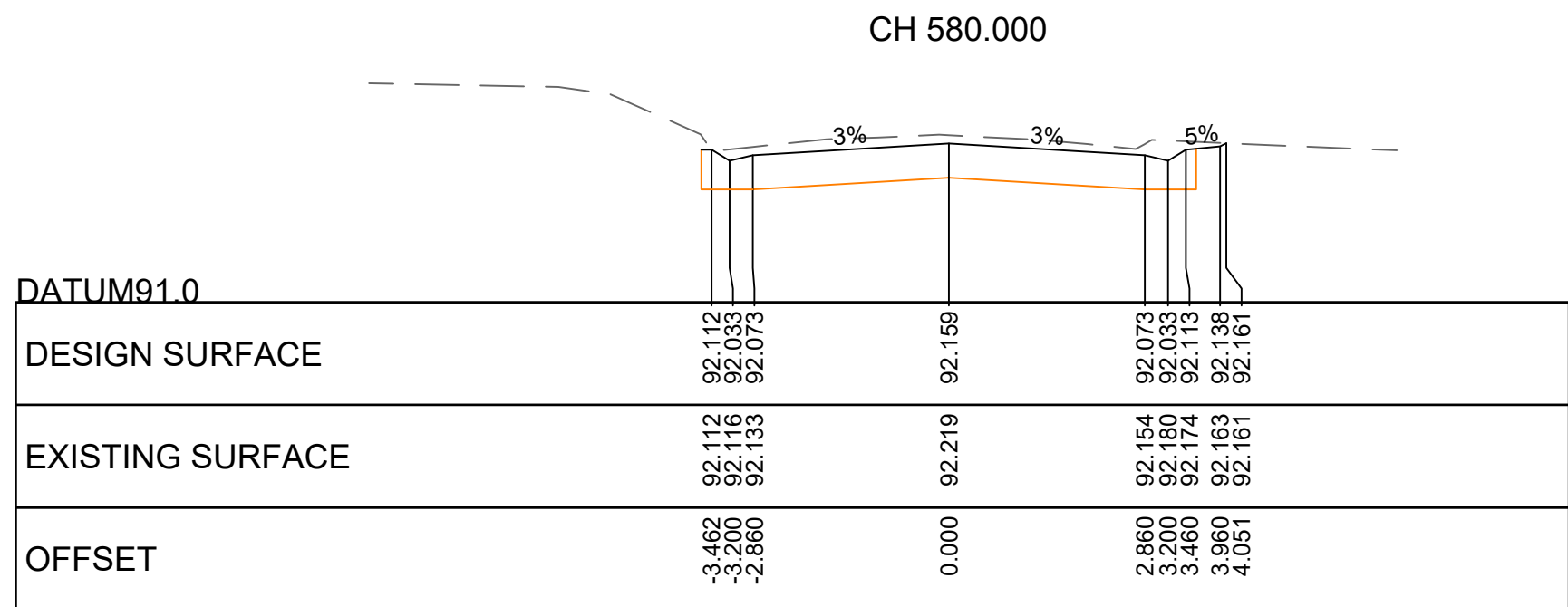
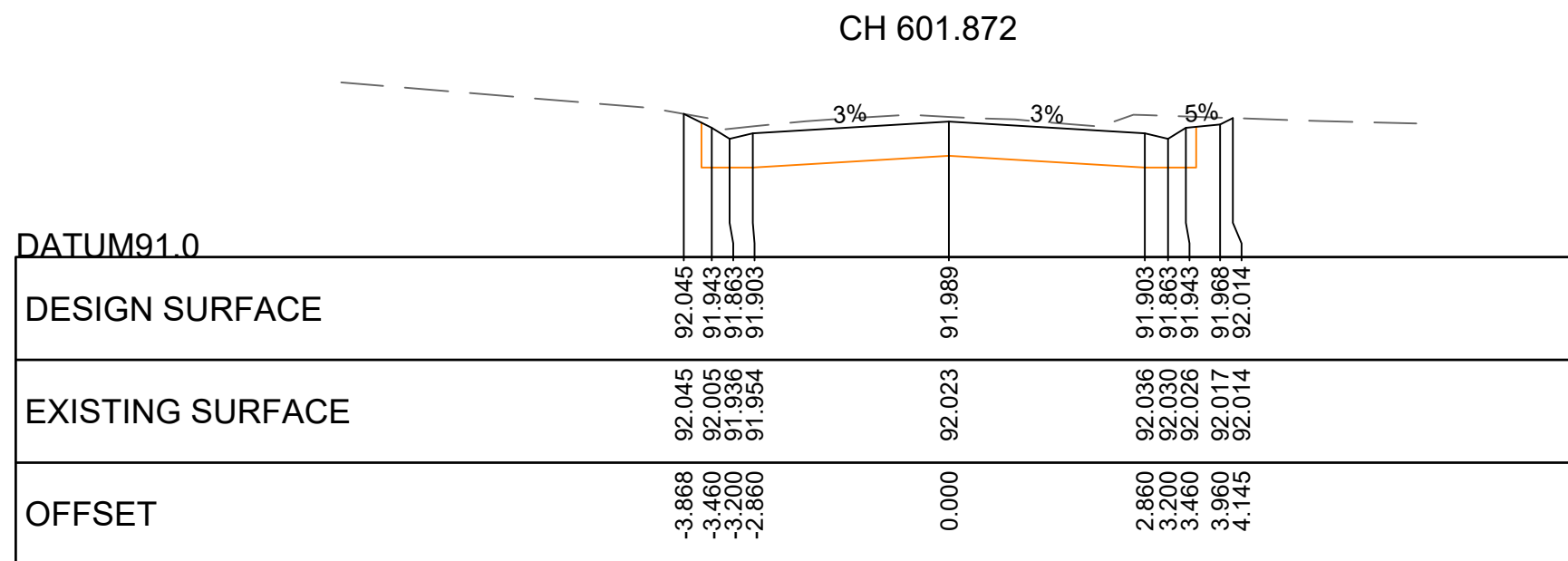
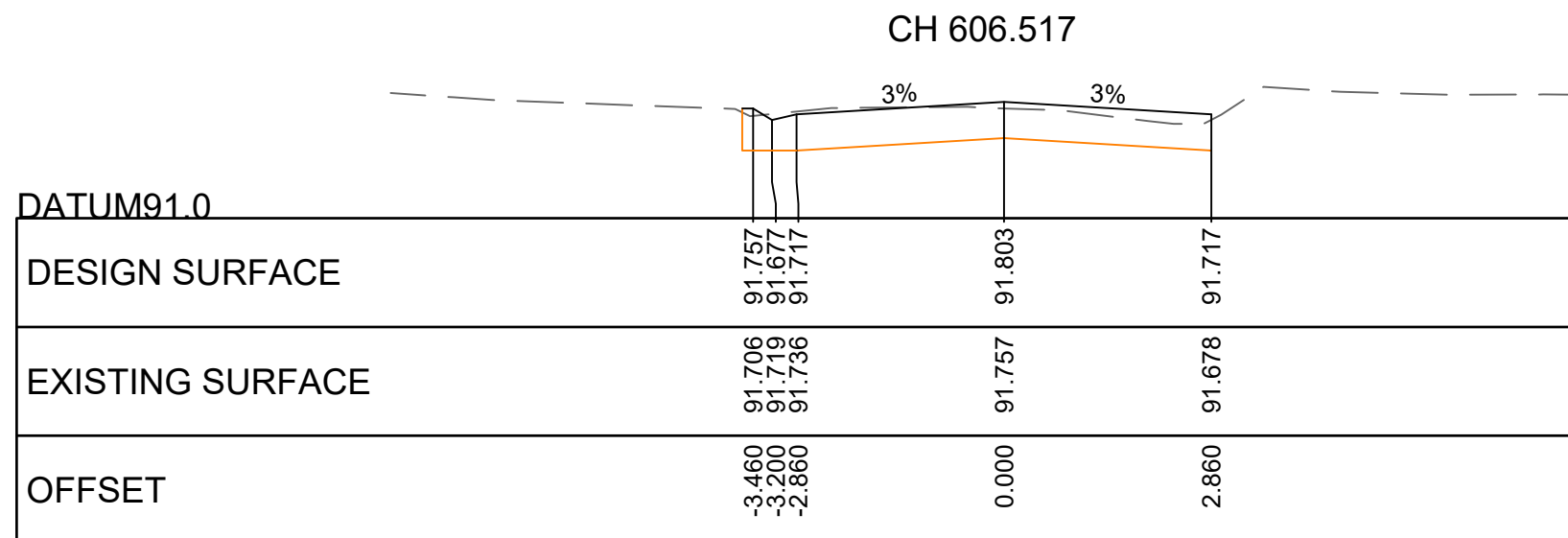
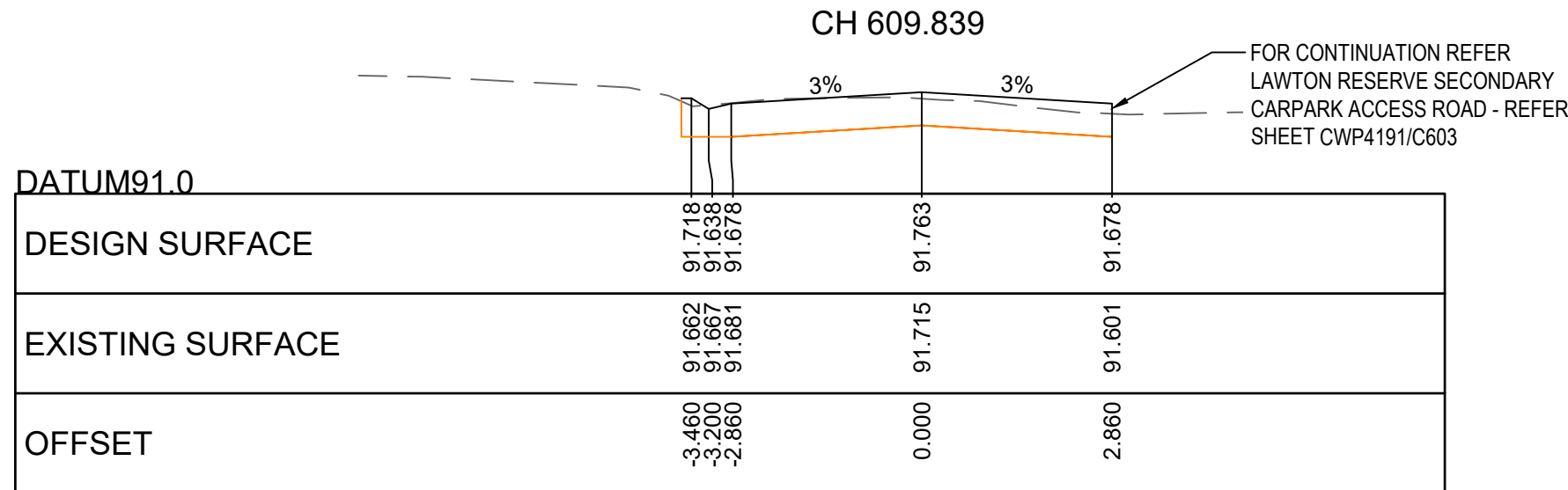
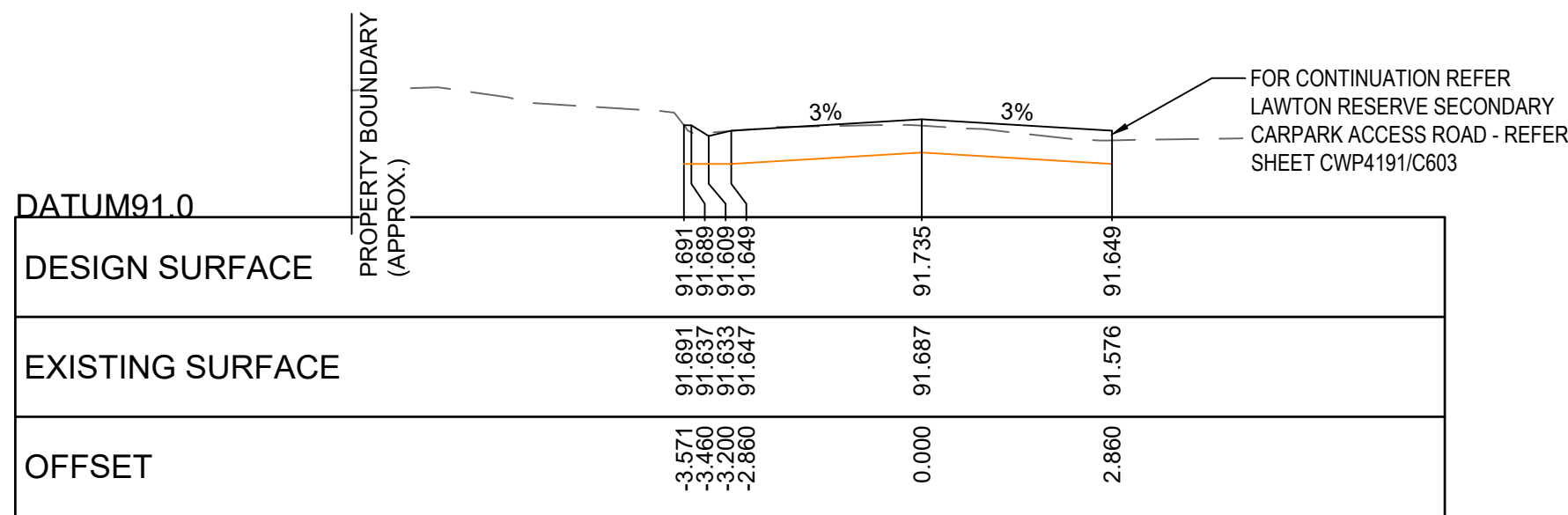
CONSTRUCTION ISSUE

CH 507.624

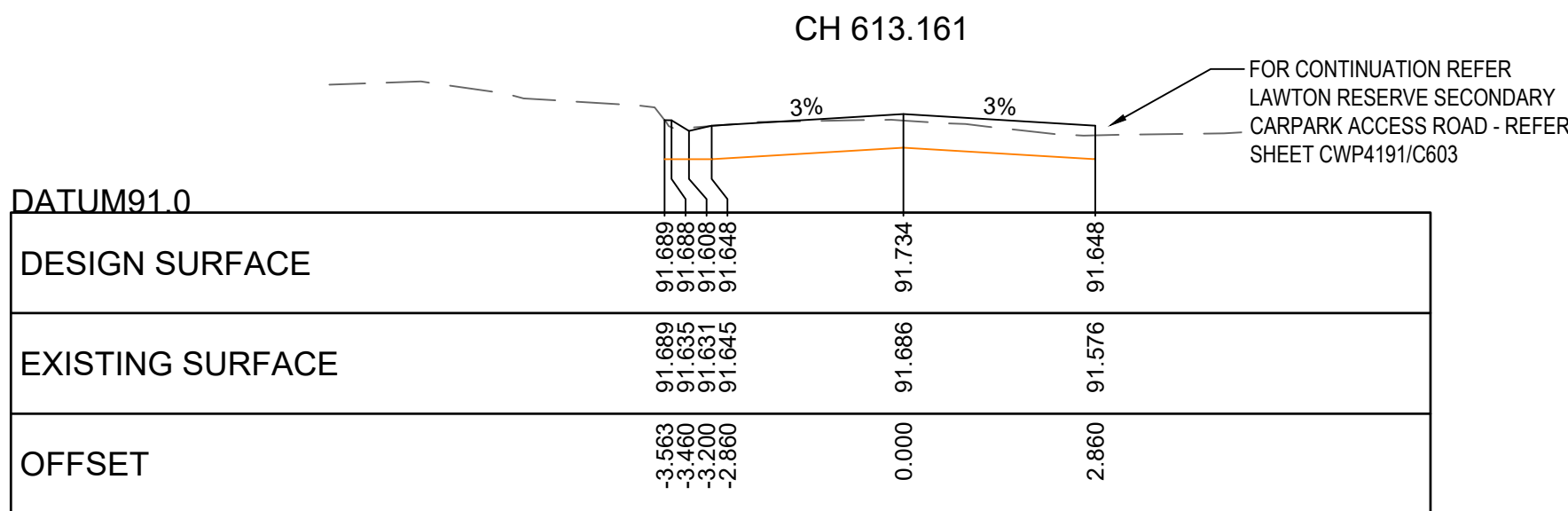
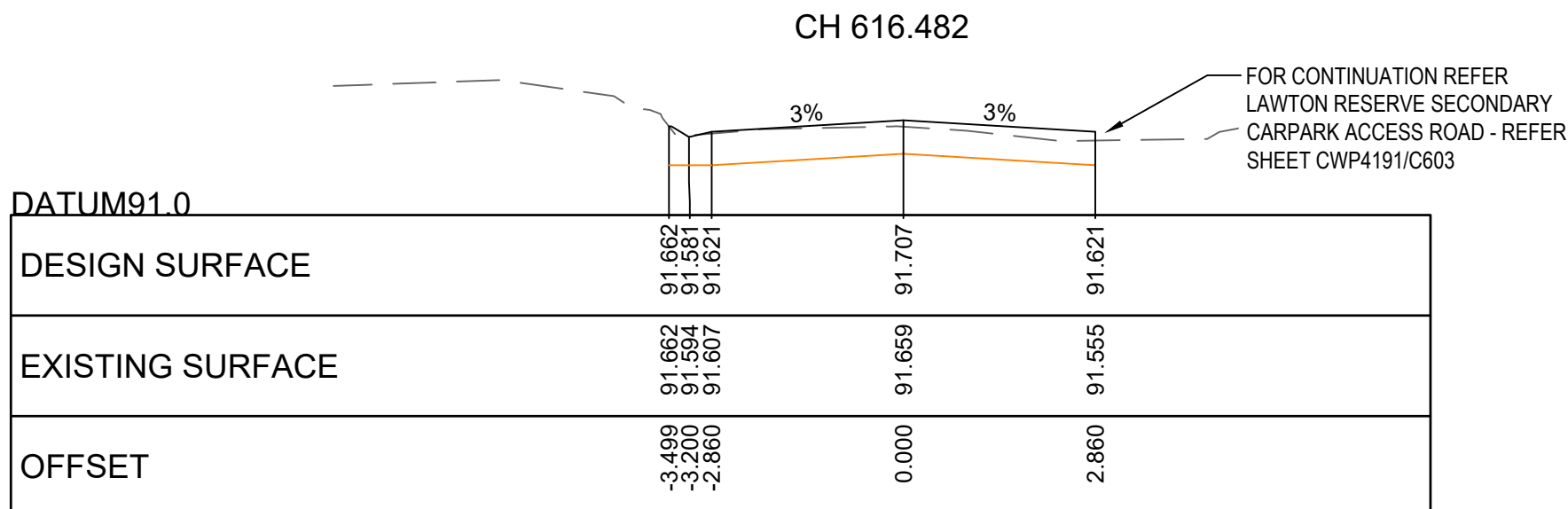
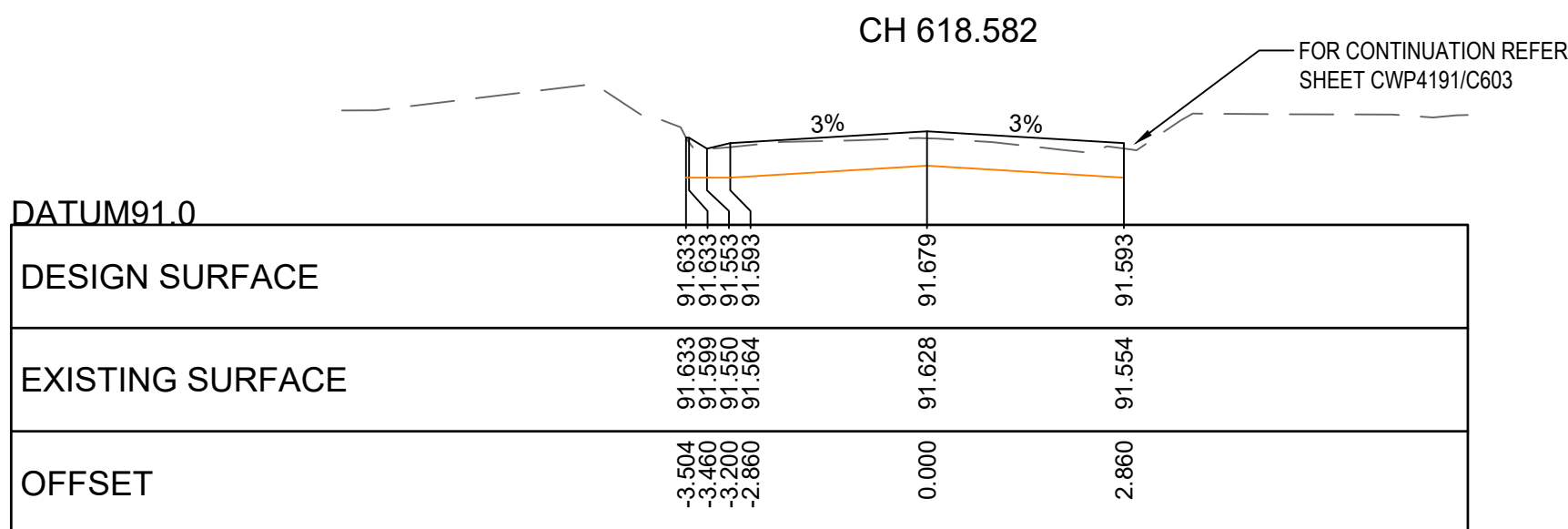
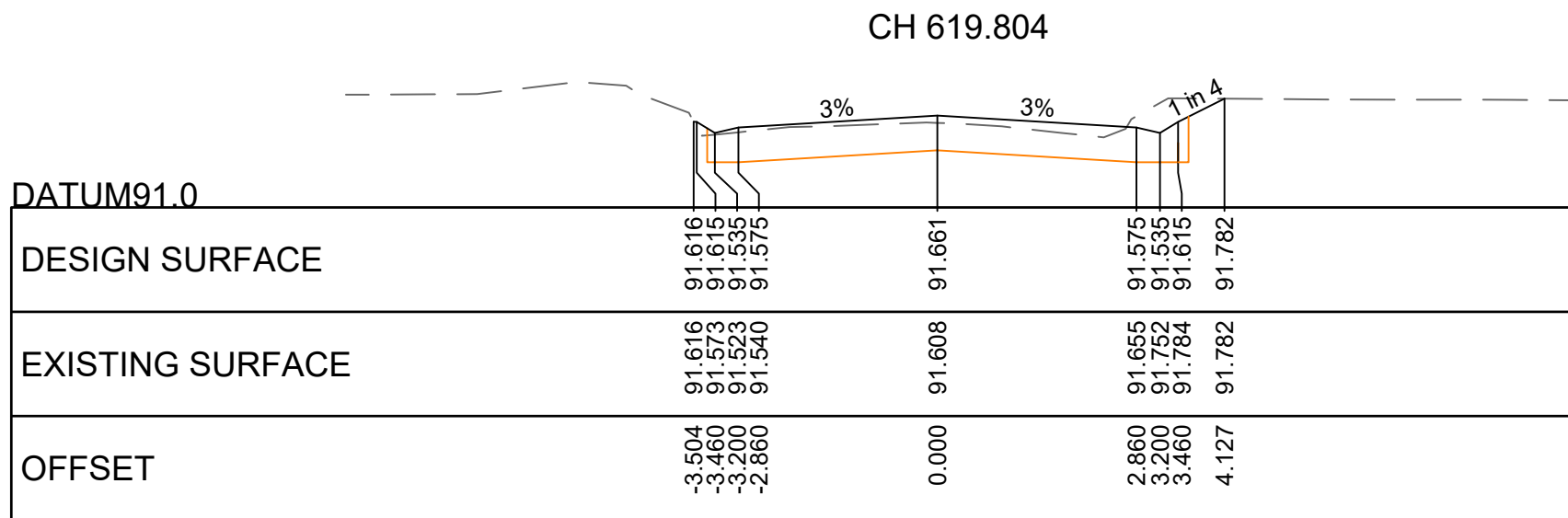
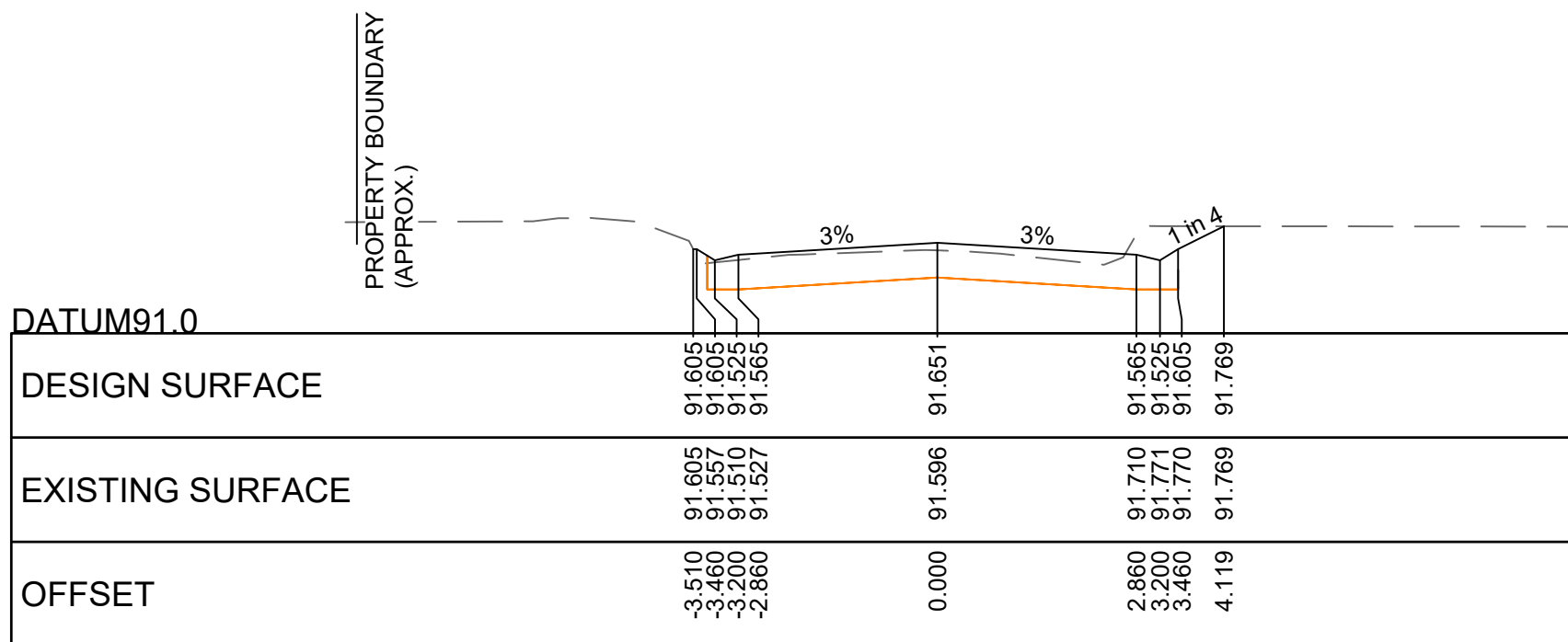
CONSTRUCTION ISSUE

LEGEND																AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS - SHEET 7 OF 14																						
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		TELSTRA PILLAR		MAJOR TELSTRA PIT			MINOR TELSTRA PIT		GAS VALVE		SEWER PIT		FIRE HYDRANT		FIRE PLUG						STORMWATER (EXISTING)		STORMWATER (PROPOSED)		SEWER		WATER		GAS		TELSTRA		ELECTRICITY (UNDERGROUND)		ELECTRICITY (OVERHEAD)		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		ELECTRIC PIT		PERMANENT SURVEY MARK		SURVEY MARK OR STATION			WOODEN POST		STEEL POST		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		600mm DIA. CONDUIT JUNCTION PIT		300mm DETECTOR PIT		TRAFFIC SIGNAL CONTROLLER		EXISTING DETECTOR LOOP		INTERNALLY ILLUMINATED SIGN		EXISTING STREET LIGHTING LANTERN		PROPOSED STREET LIGHTING LANTERN		CURB & CHANNEL		PROPOSED CURB & CHANNEL		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL		EXISTING KERB		PROPOSED KERB
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		PERMANENT SURVEY MARK		PERMANENT SURVEY MARK		SURVEY MARK OR STATION			WOODEN POST		STEEL POST		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		600mm DIA. CONDUIT JUNCTION PIT		300mm DETECTOR PIT		TRAFFIC SIGNAL CONTROLLER		EXISTING DETECTOR LOOP		INTERNALLY ILLUMINATED SIGN		EXISTING STREET LIGHTING LANTERN		PROPOSED STREET LIGHTING LANTERN		CURB & CHANNEL		PROPOSED CURB & CHANNEL		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL		EXISTING KERB		PROPOSED KERB
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MAJOR TELSTRA PIT		MINOR TELSTRA PIT		GAS VALVE			SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT		SEWER PIT
	EXISTING STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER			SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER
	PROPOSED STREET LIGHTING LANTERN		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER			TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER		TRAFFIC SIGNAL CONTROLLER
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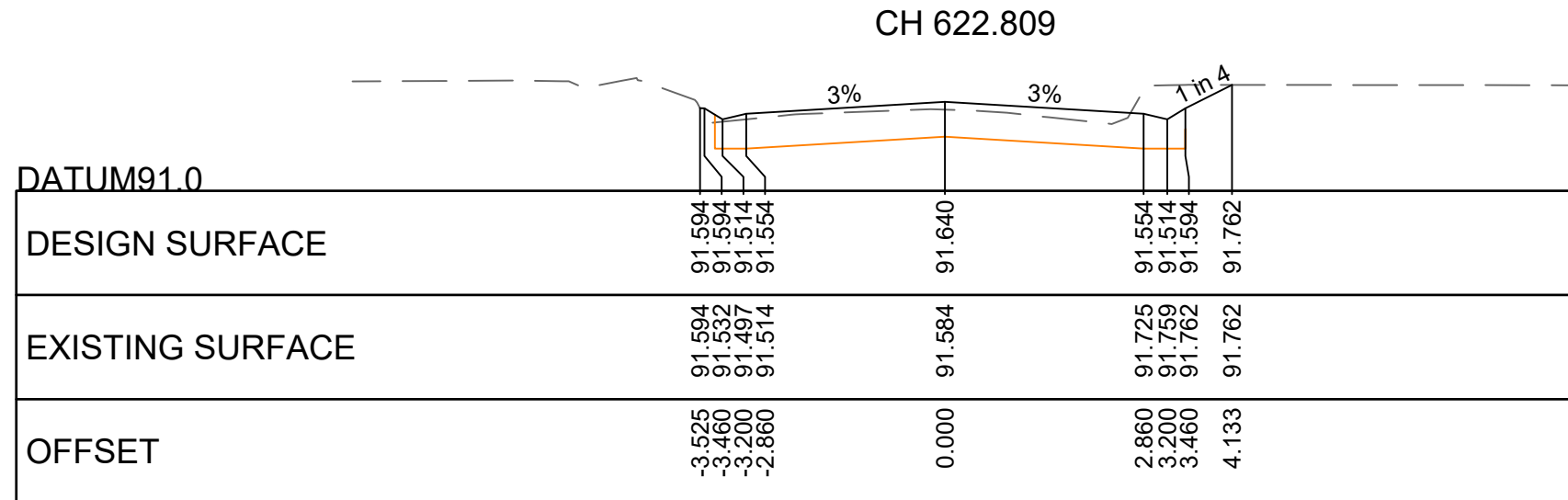
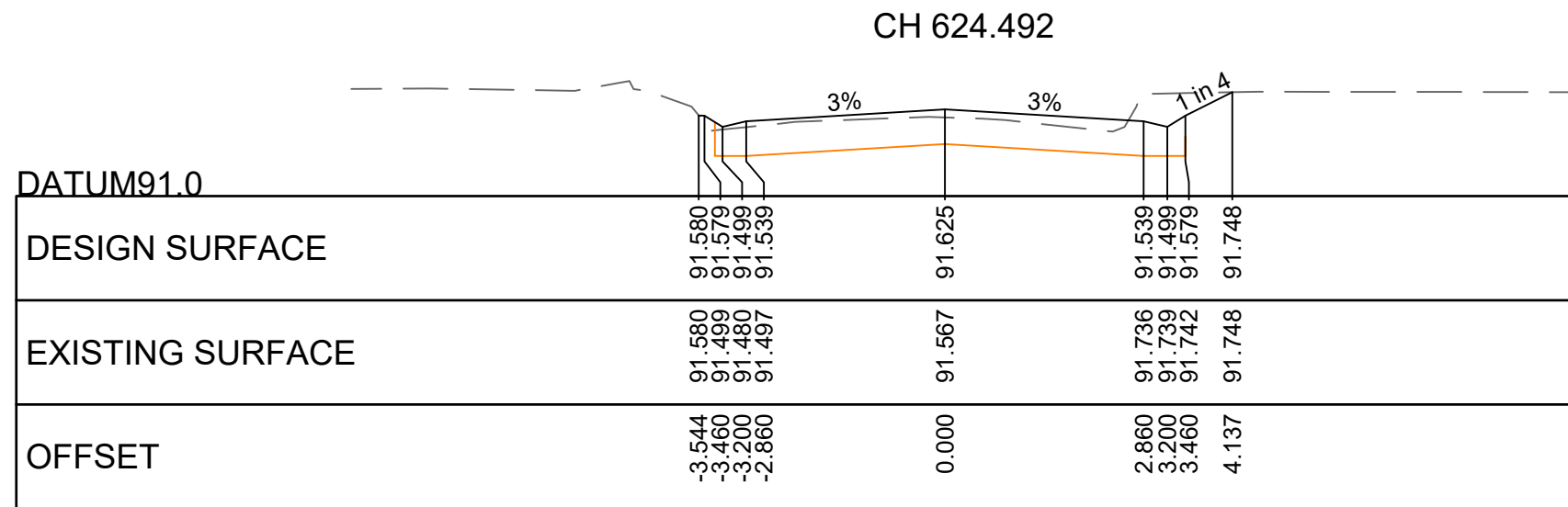
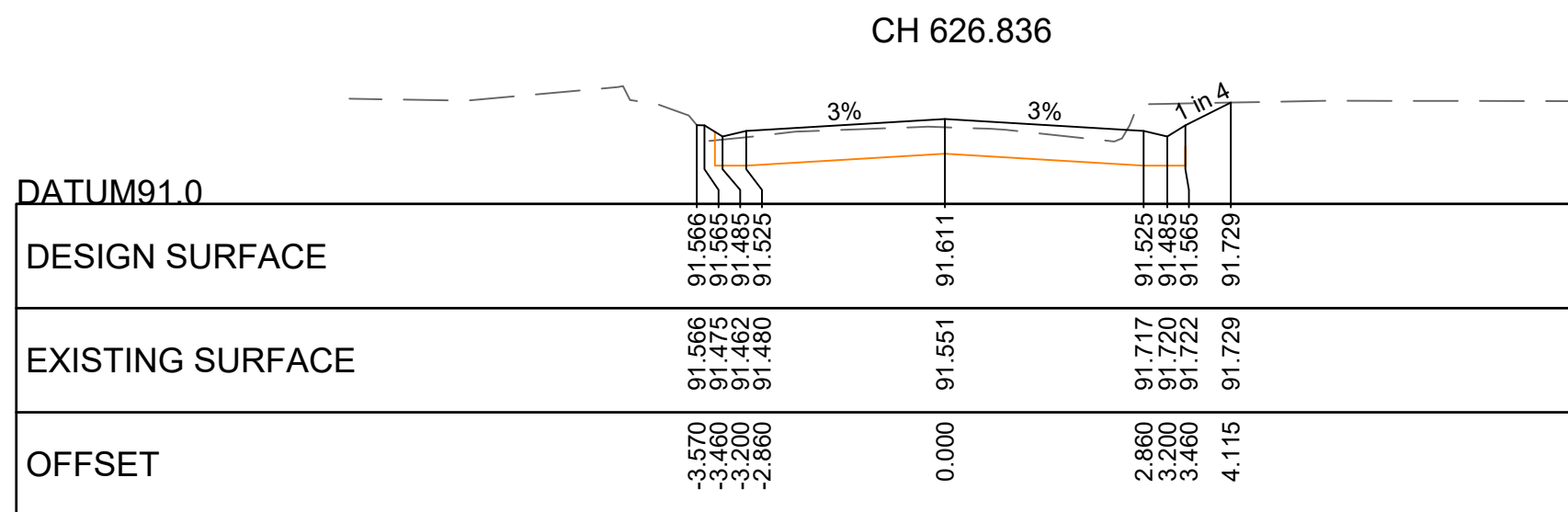
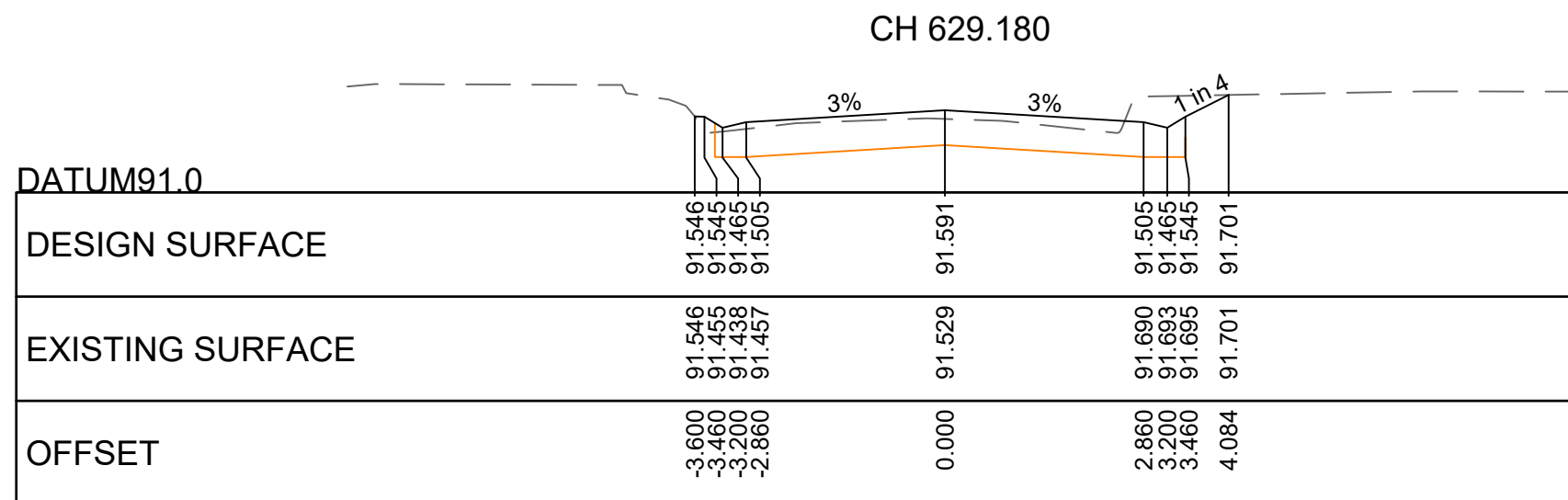
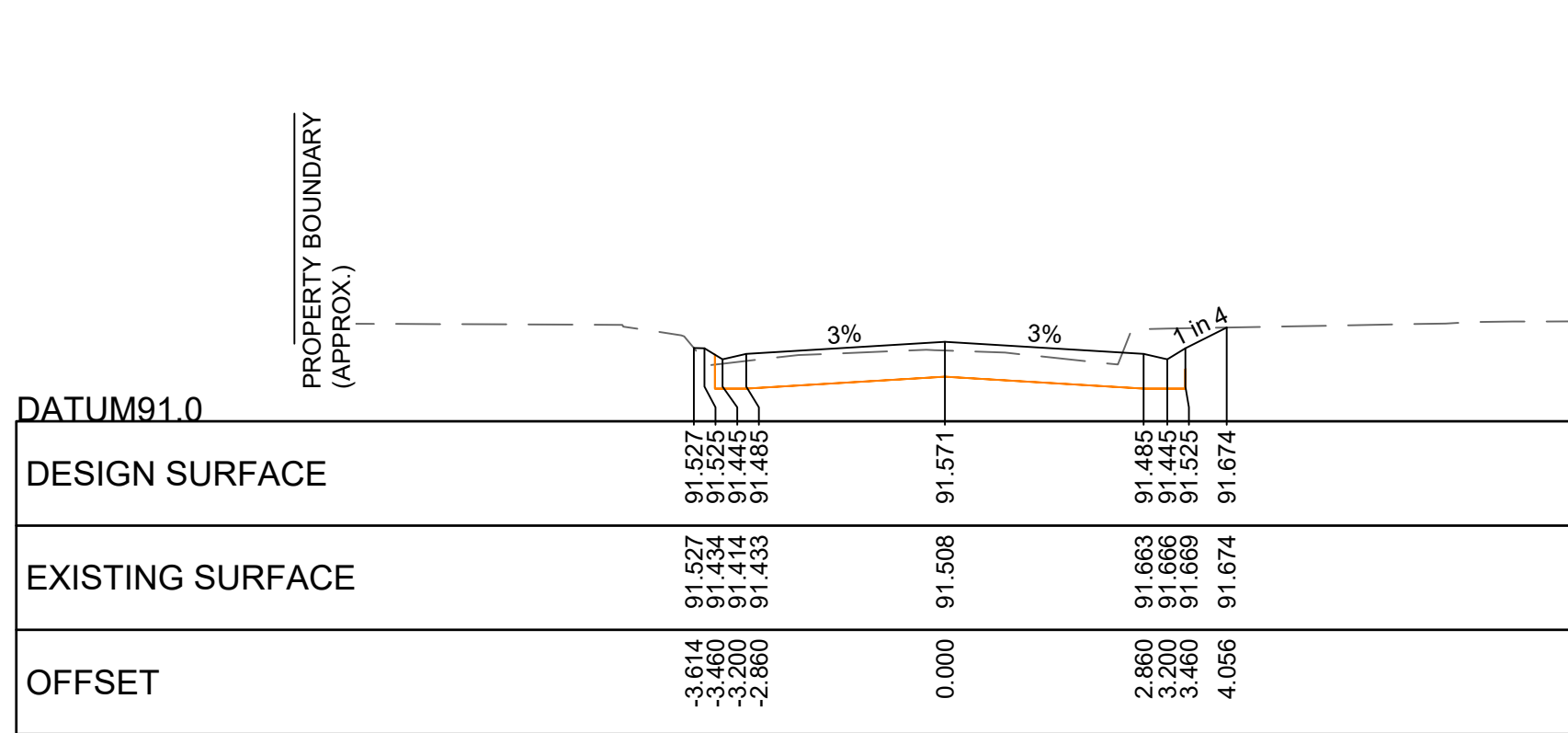
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CH 560.000



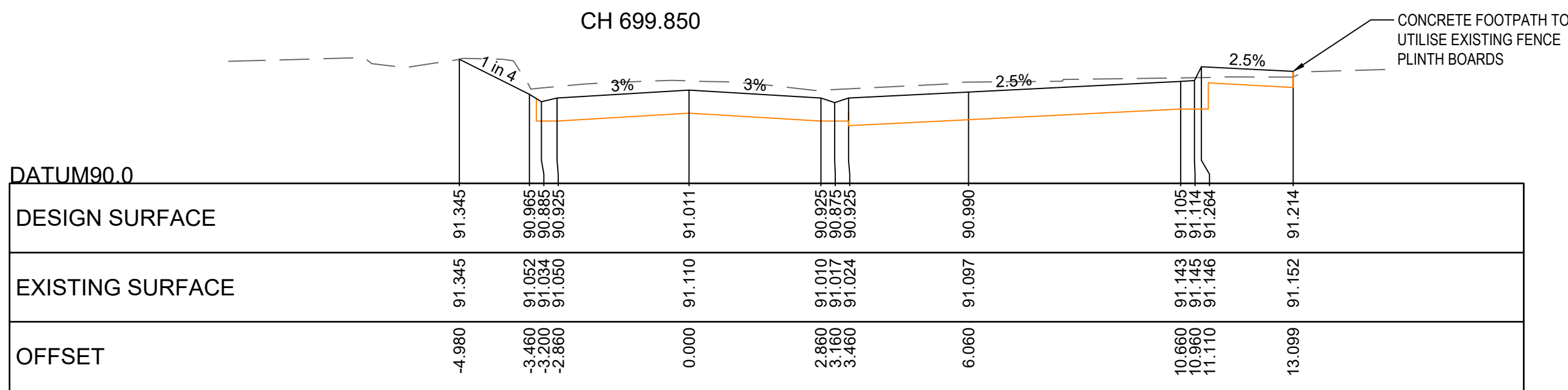
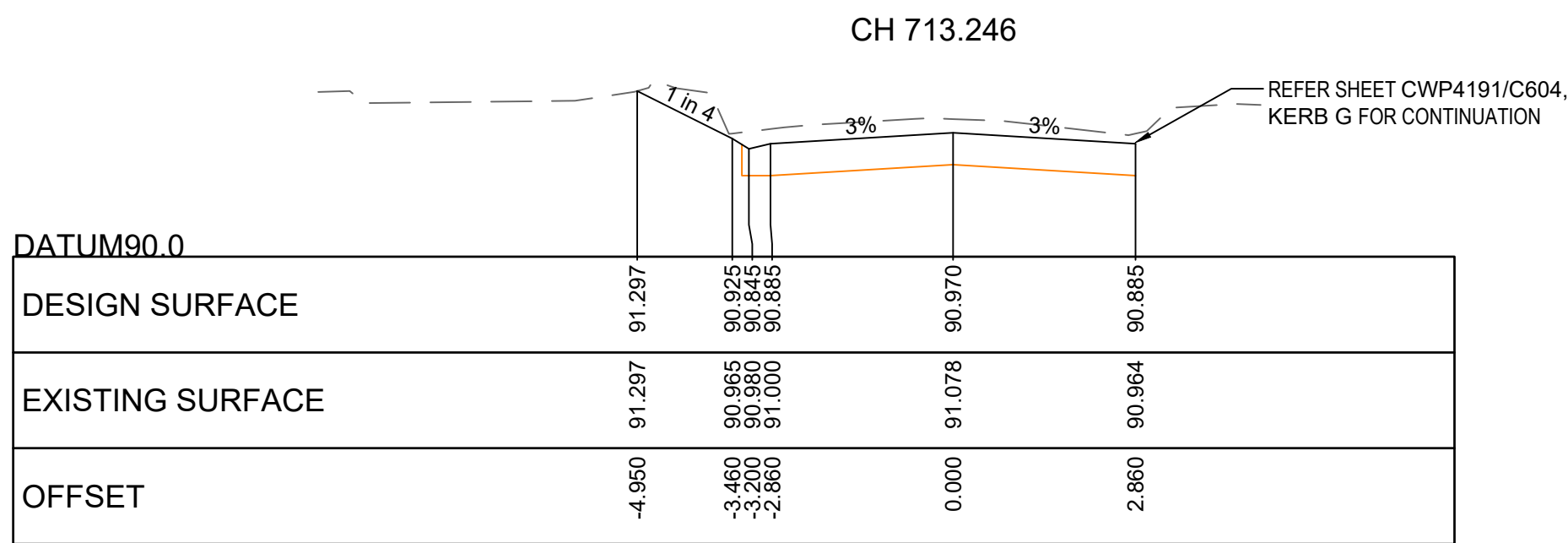
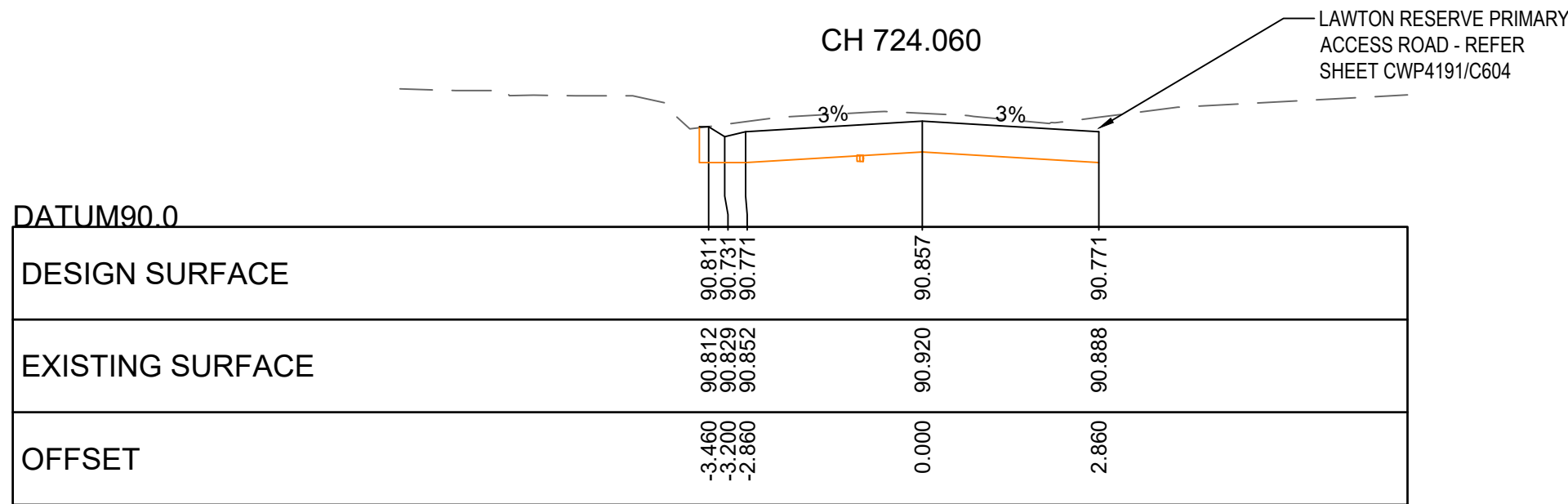
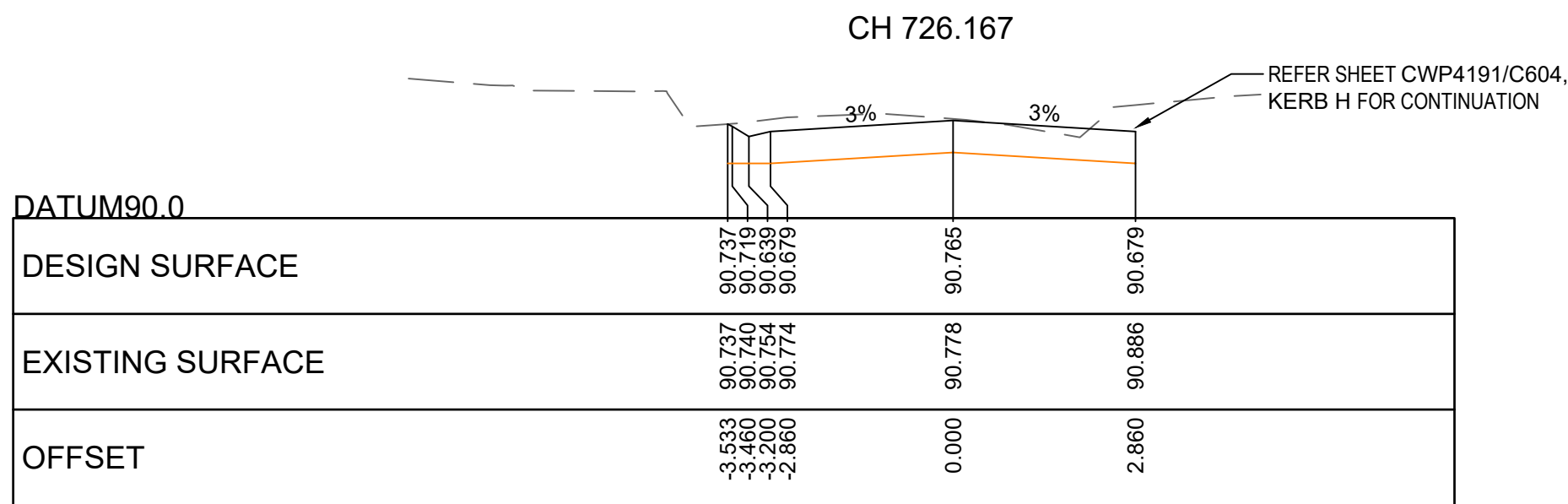
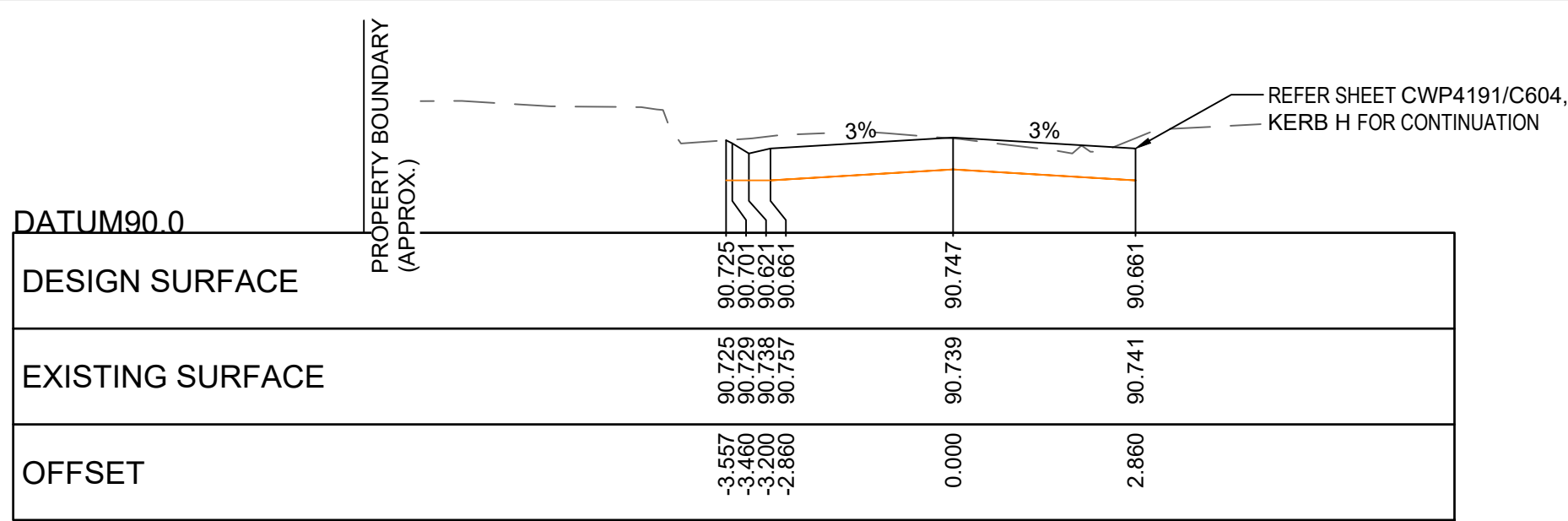
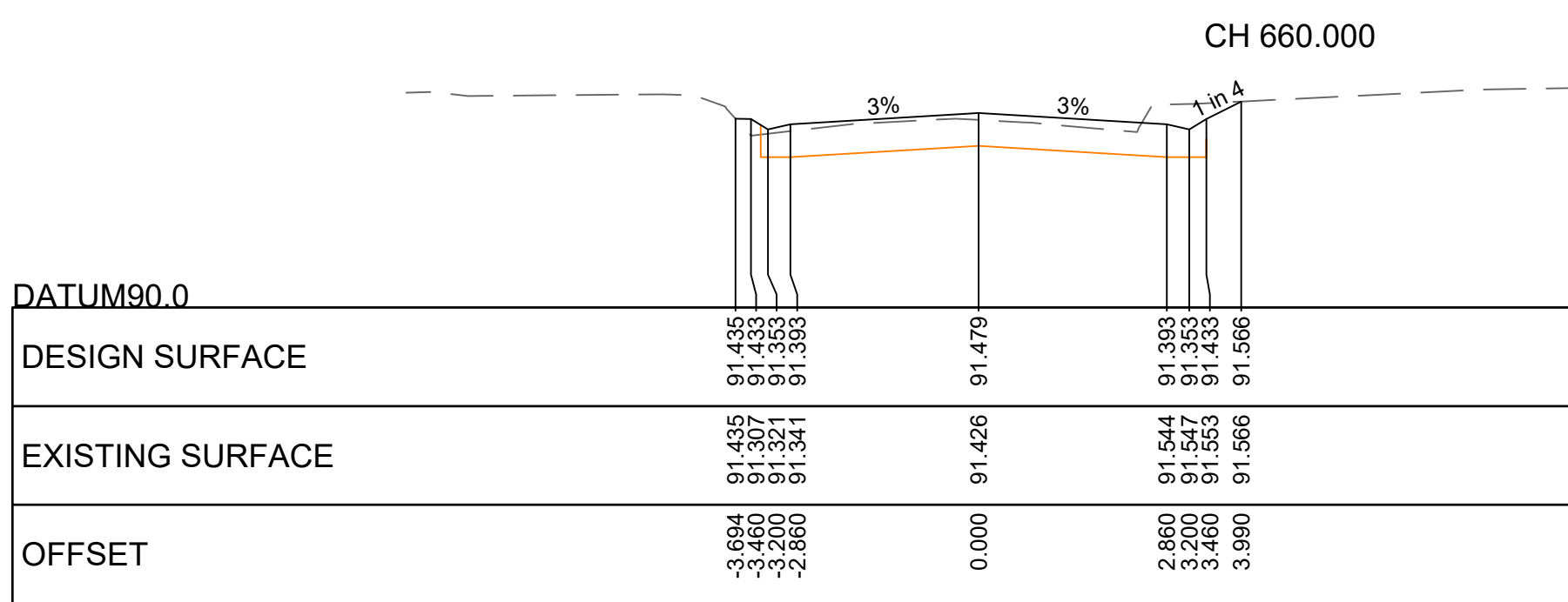
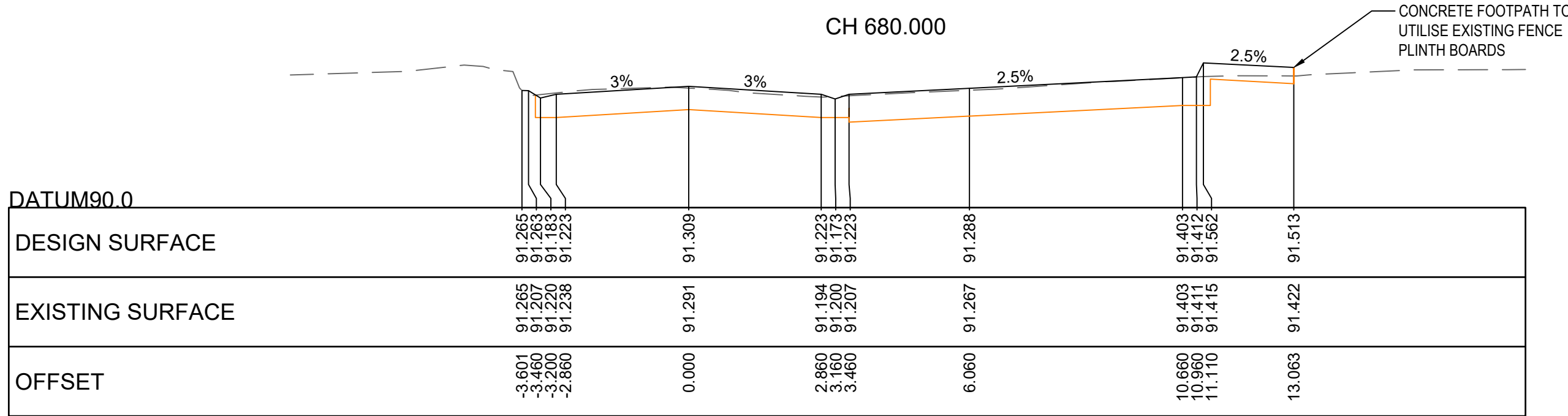
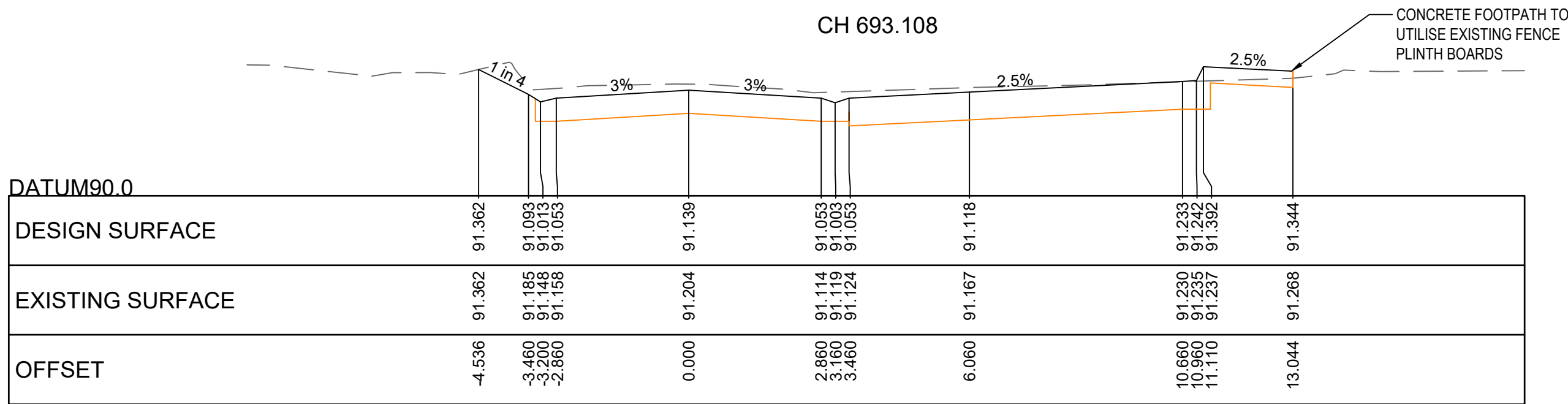
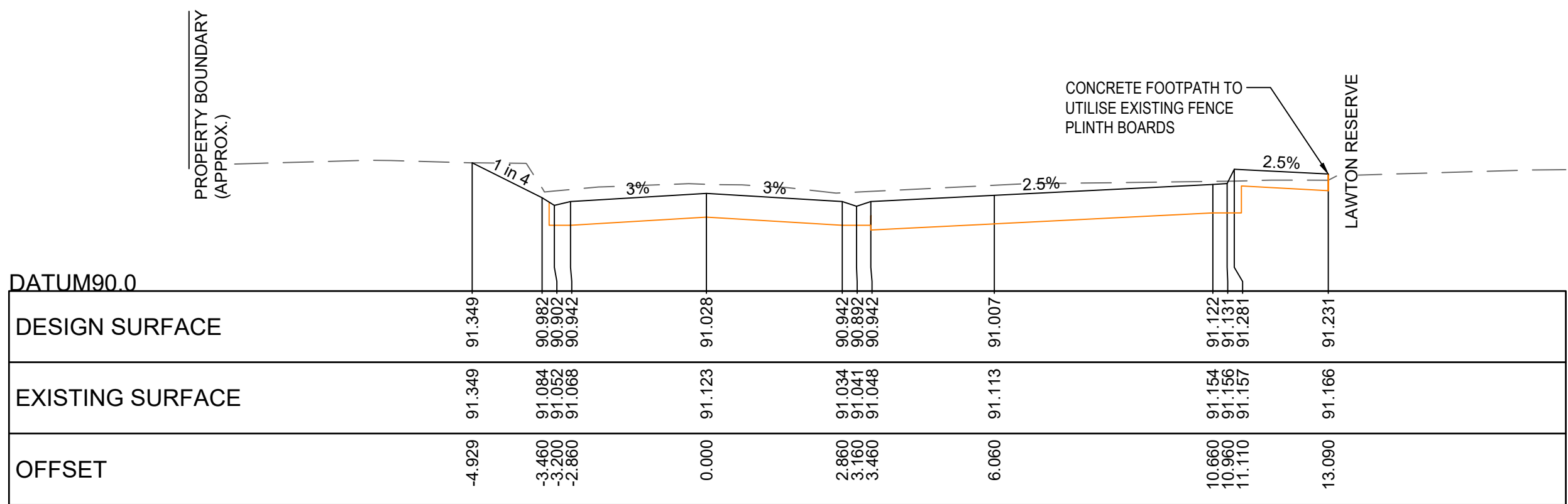
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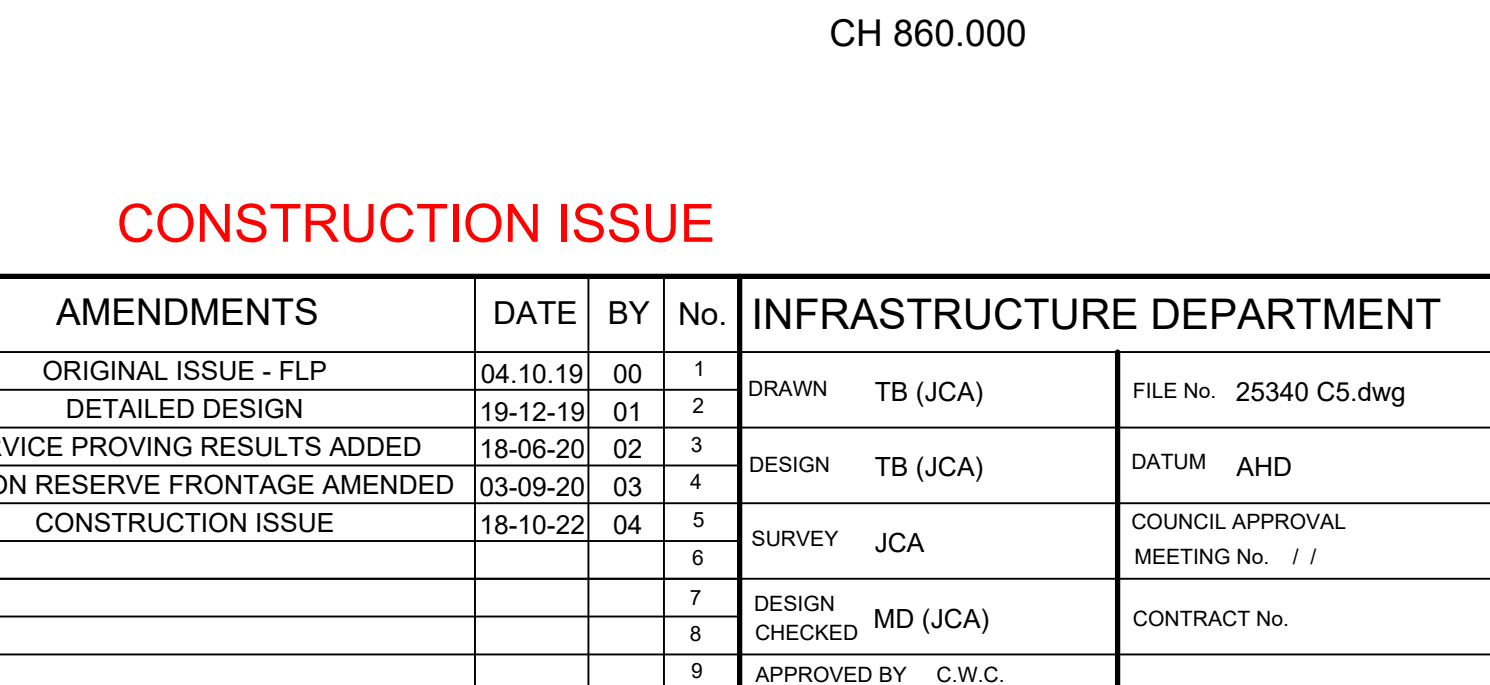
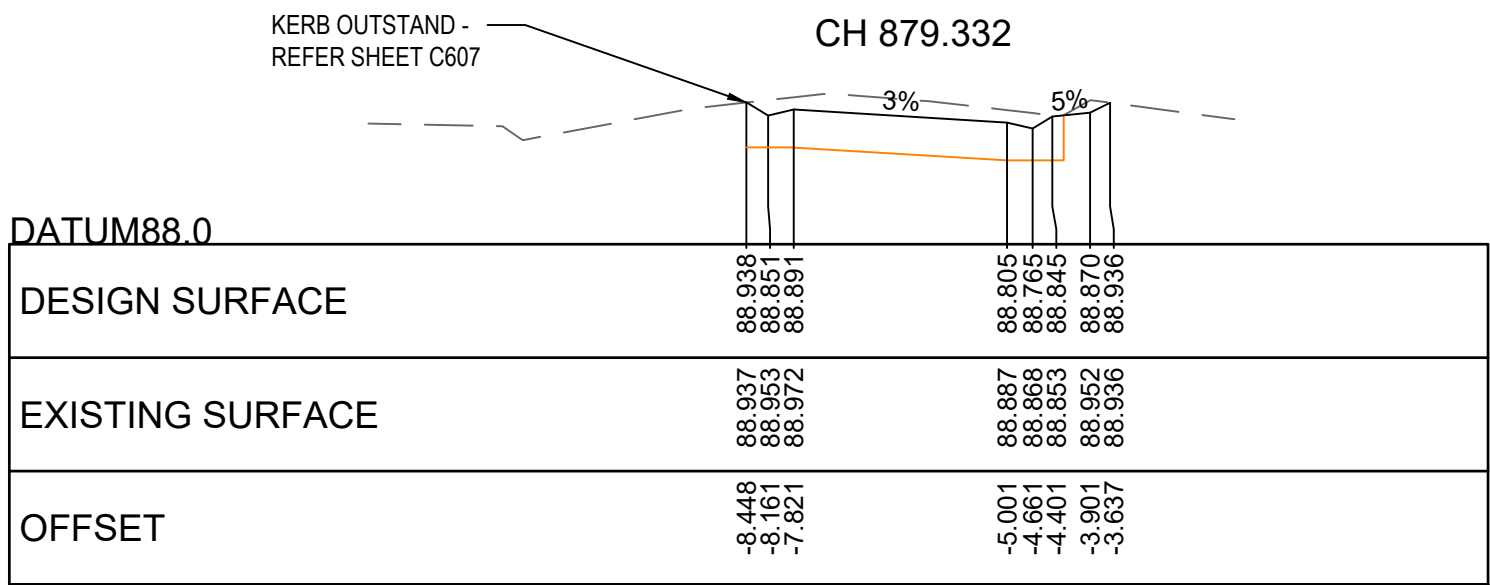
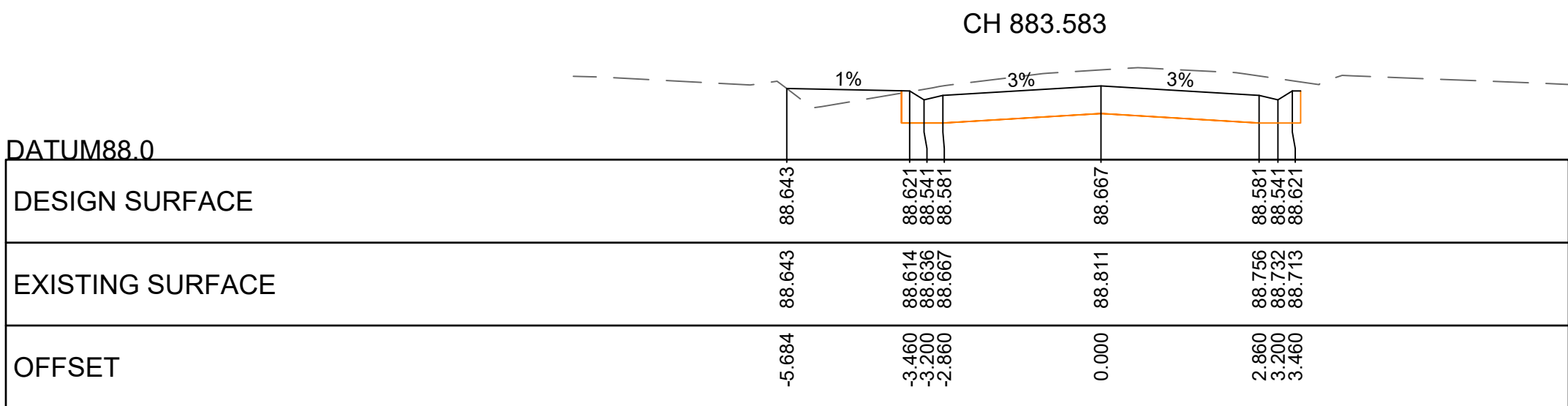
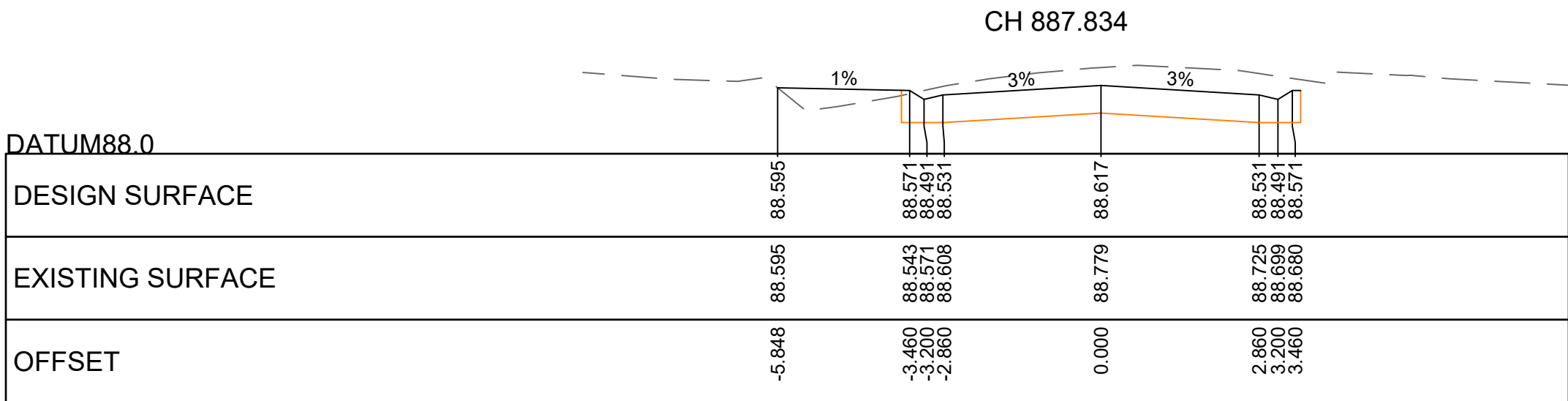
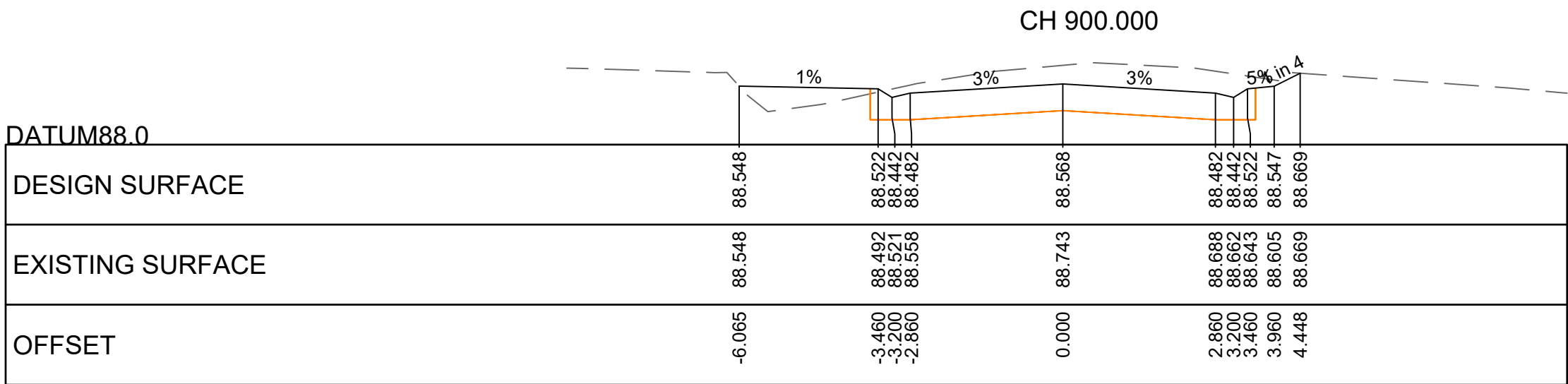
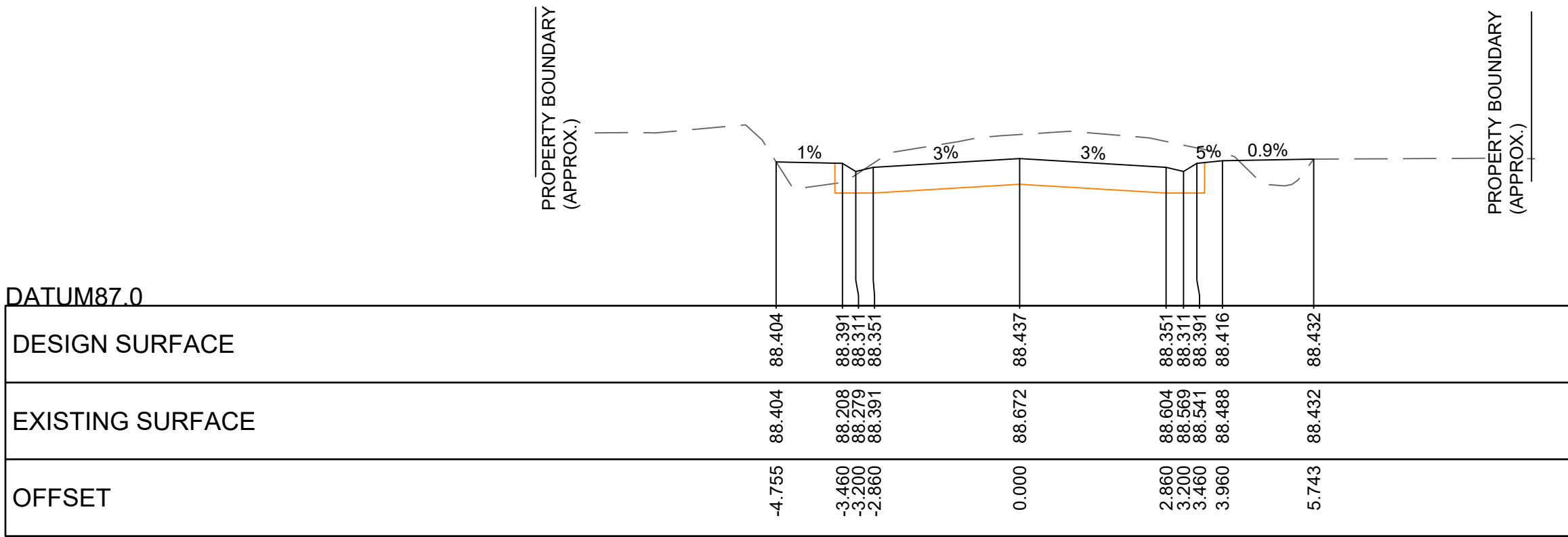
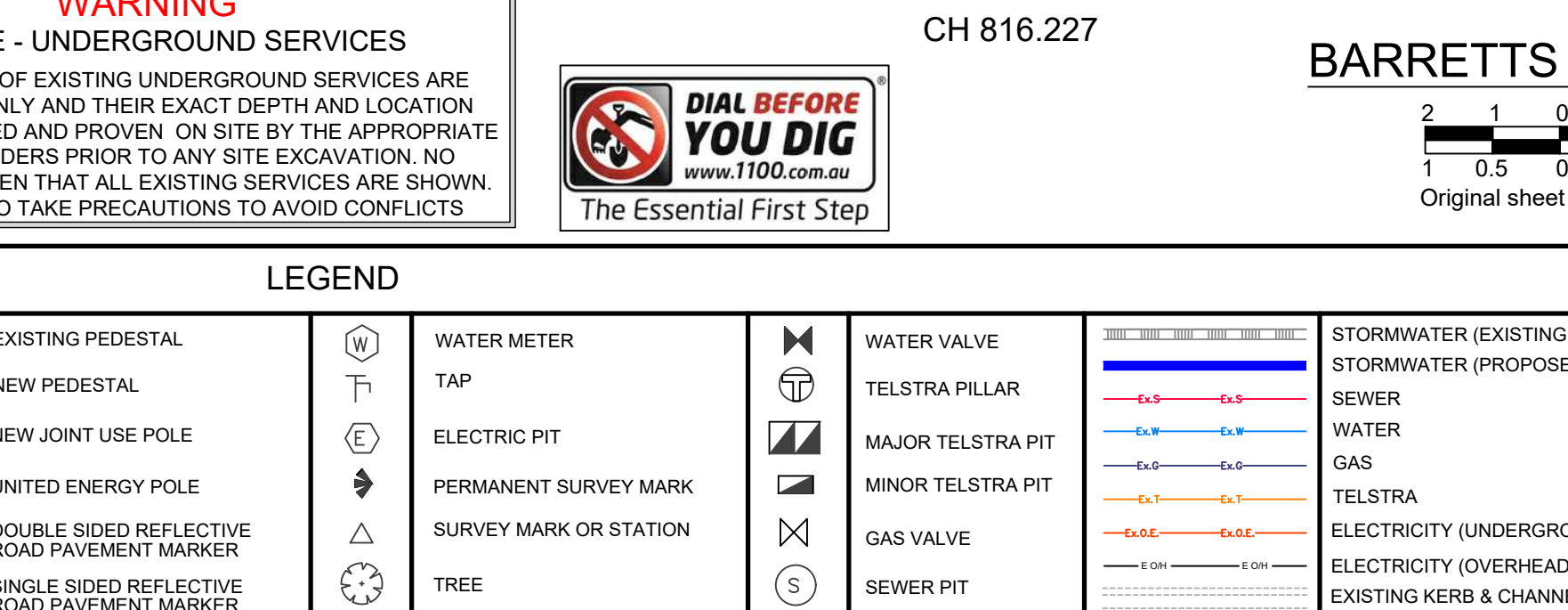
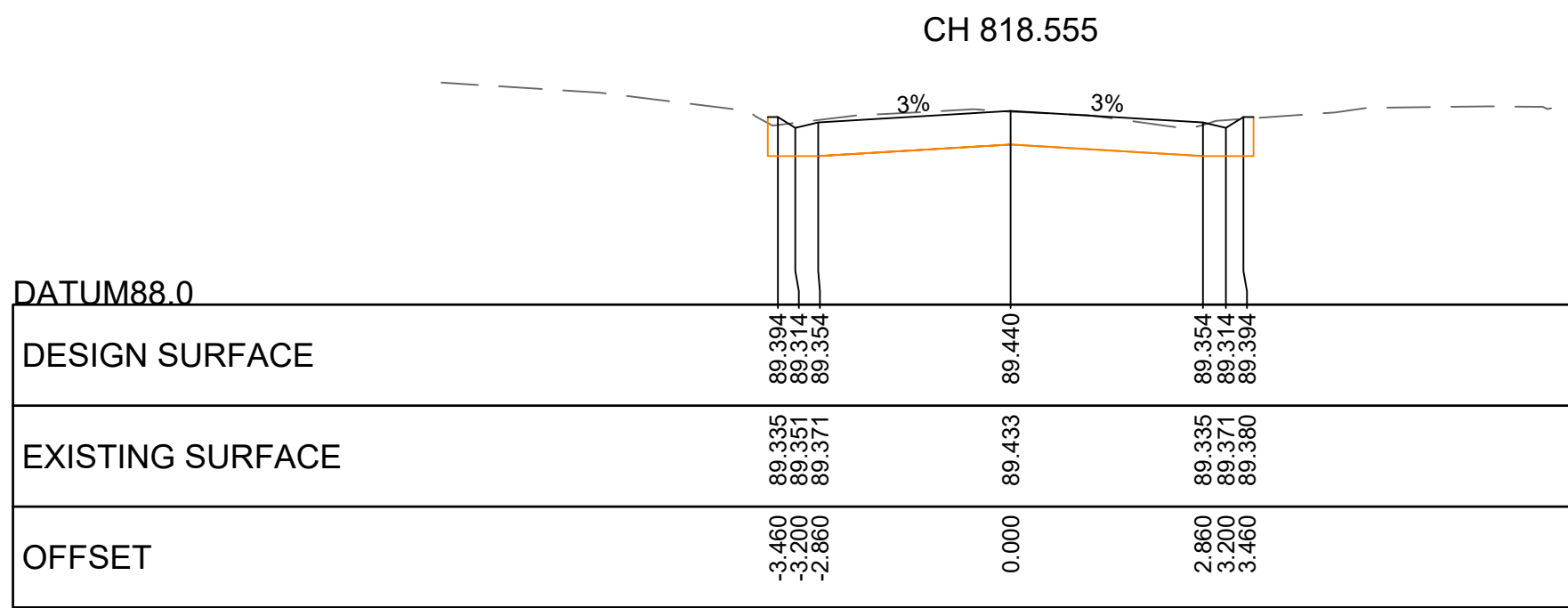
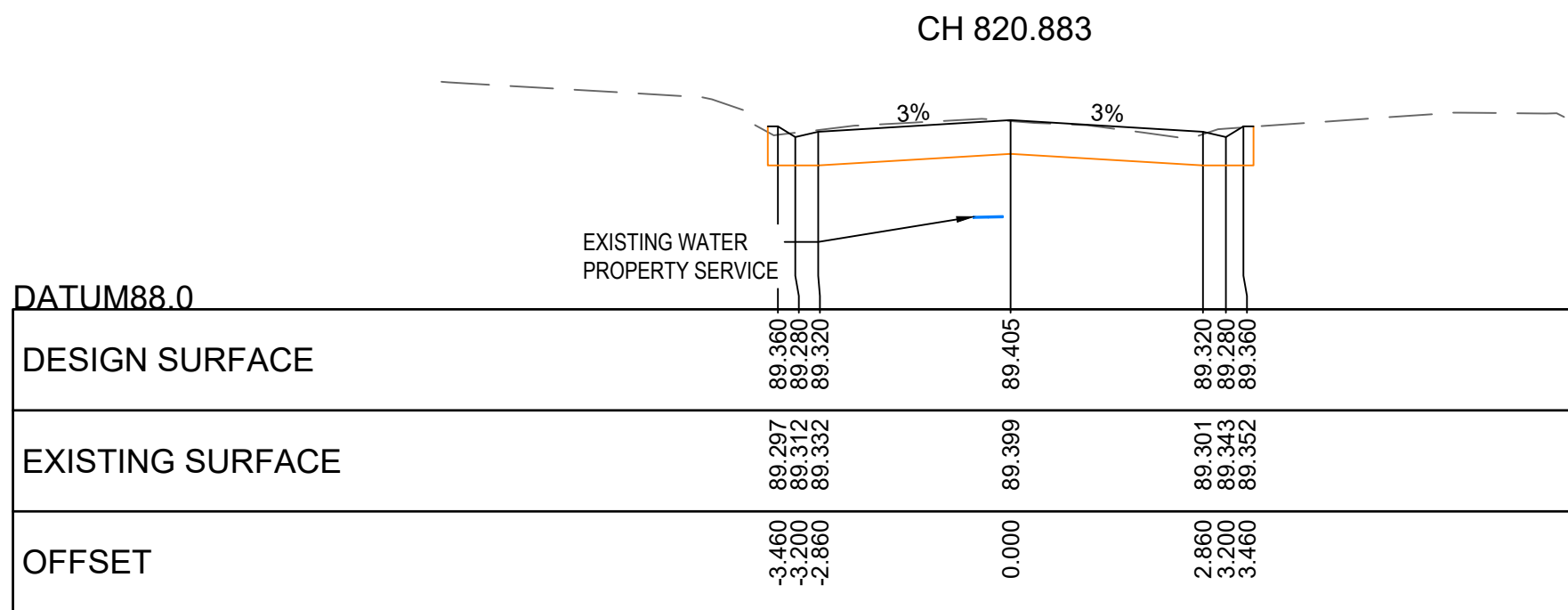
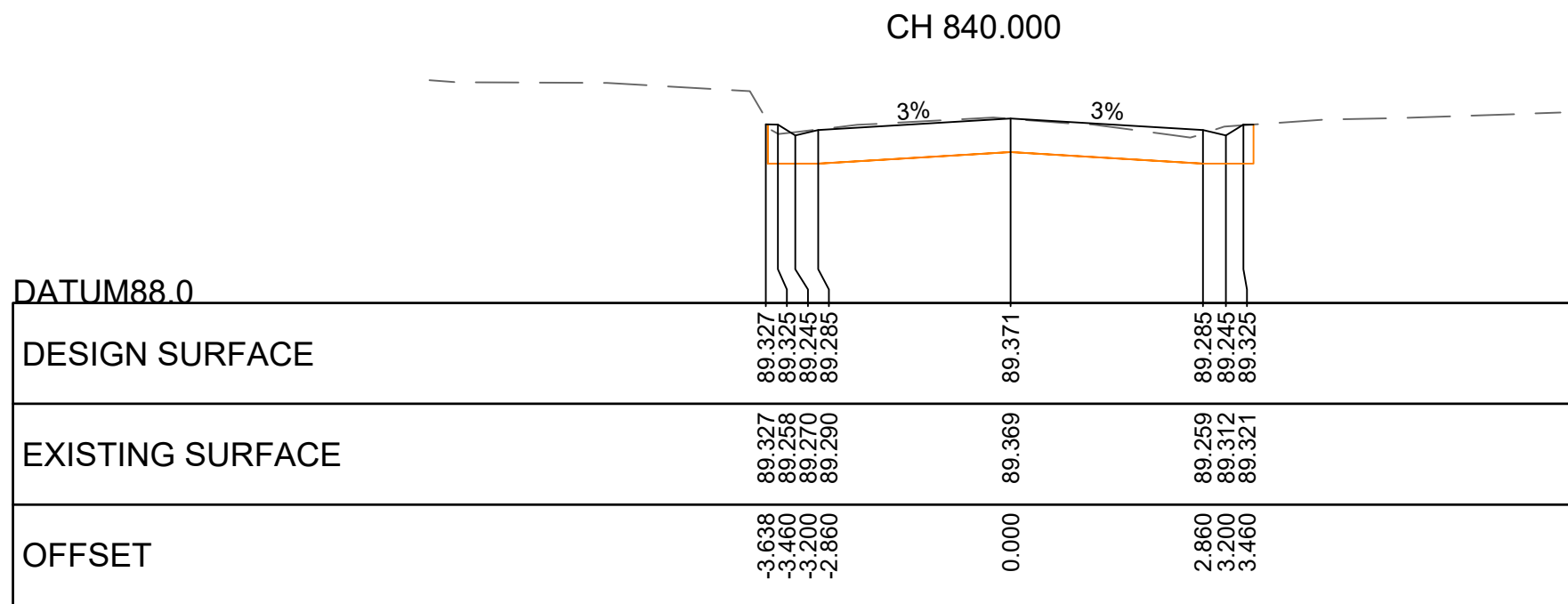
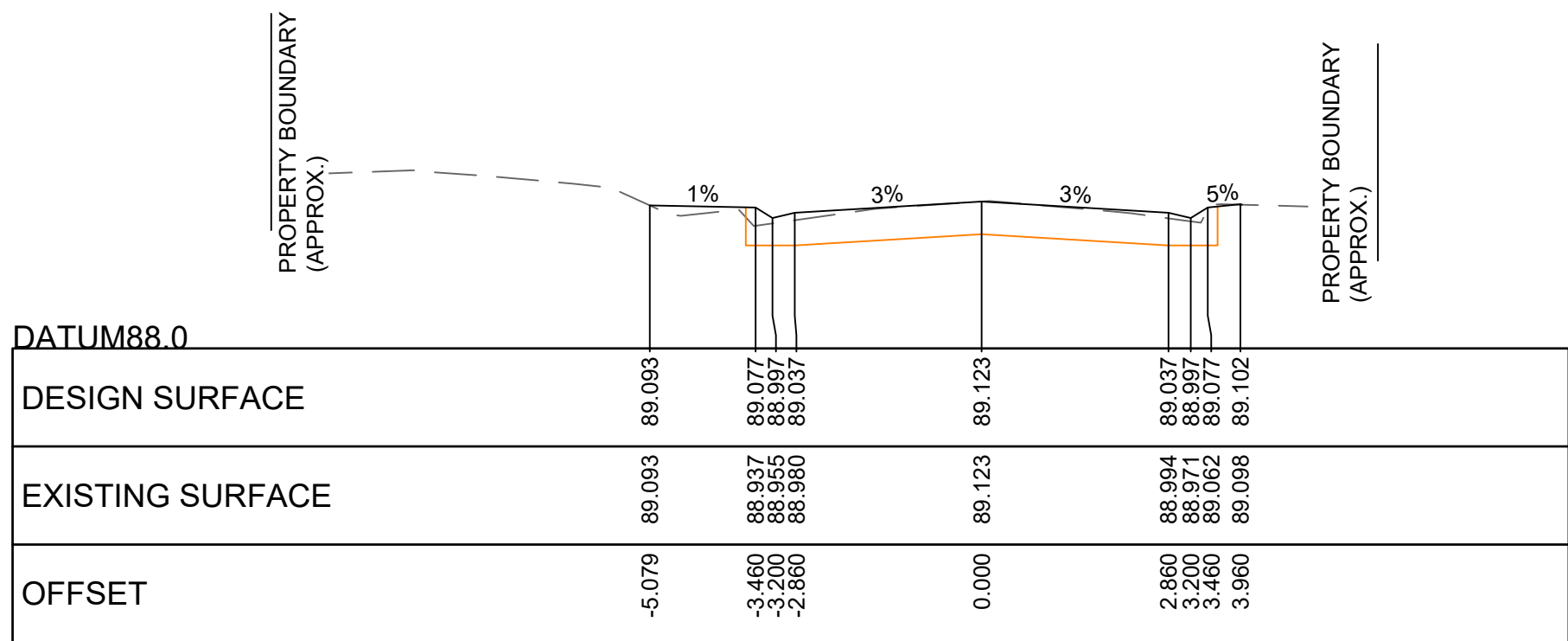
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	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		STORMWATER (EXISTING)
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR		STORMWATER (PROPOSED)
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT		SEWER
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT		WATER
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE		GAS
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT		TELSTRA
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT		ELECTRICITY (UNDERGROUND)
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG		ELECTRICITY (OVERHEAD)
											EXISTING KERB & CHANNEL
											PROPOSED KERB
											PROPOSED KERB

	AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROADCROSS-SECTIONS - SHEET 8 OF 14					
	ORIGINAL ISSUE - FLP		04.10.19	00	1	DRAWN TB (JCA)		FILE No. 25340 C5.dwg		SCALE AS SHOWN		DRAWING No. CWP4191/C508		Rev. No. 04
	DETAILED DESIGN		19-12-19	01	2									
	SERVICE PROVING RESULTS ADDED		18-06-20	02	3	DESIGN TB (JCA)		DATUM AHD						
	LAWTON RESERVE FRONTAGE AMENDED		03-09-20	03	4			COUNCIL APPROVAL MEETING No. / /						
	CONSTRUCTION ISSUE		18-10-22	04	5	SURVEY JCA								
					6									
					7	DESIGN								
					8	CHECKED MD (JCA)		CONTRACT No.						
					9	APPROVED BY C.W.C.								
					10									
					11									
					12	DATE / /		APPROVED BY Infrastructure Manager		DATE / /				

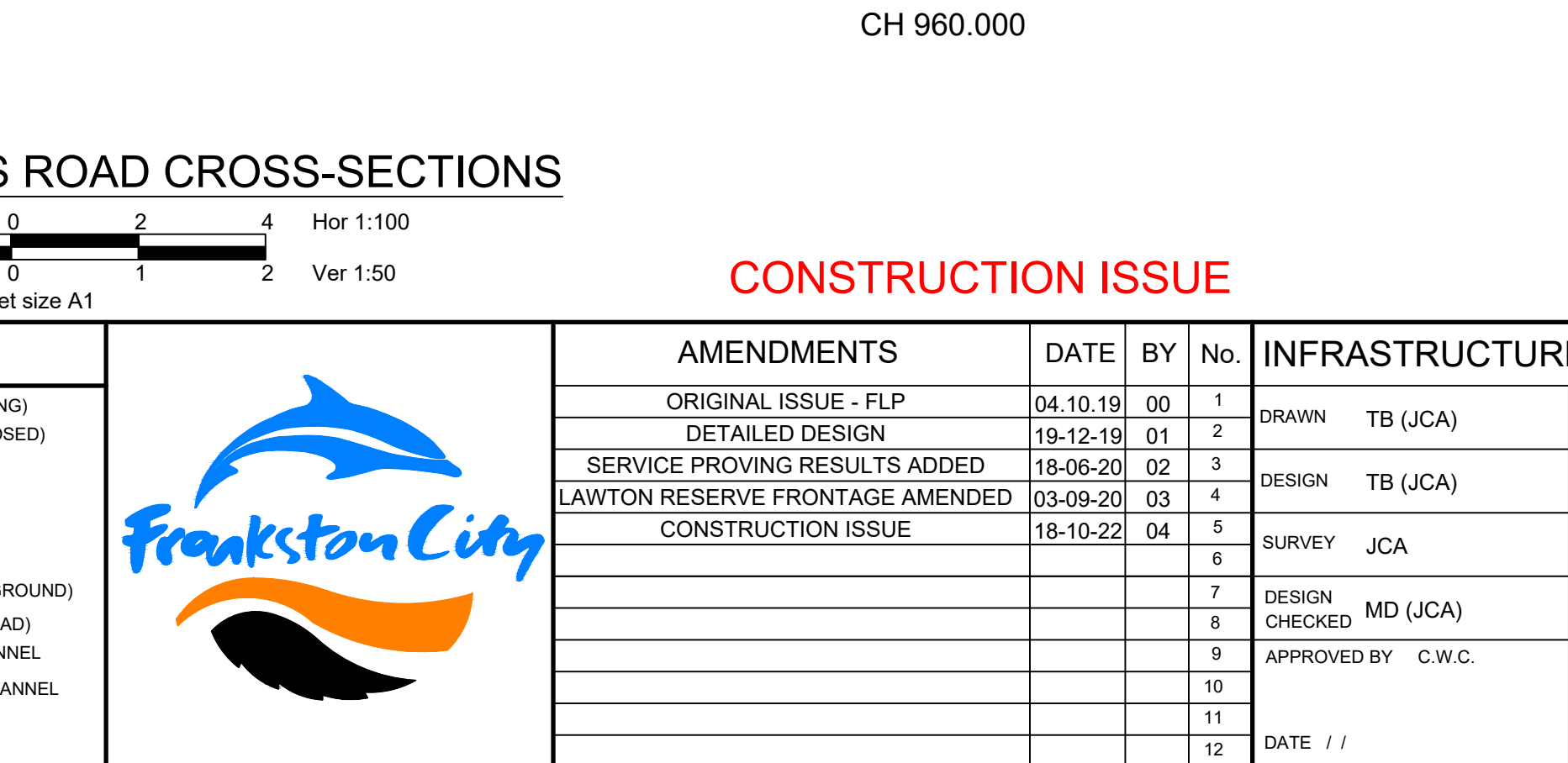
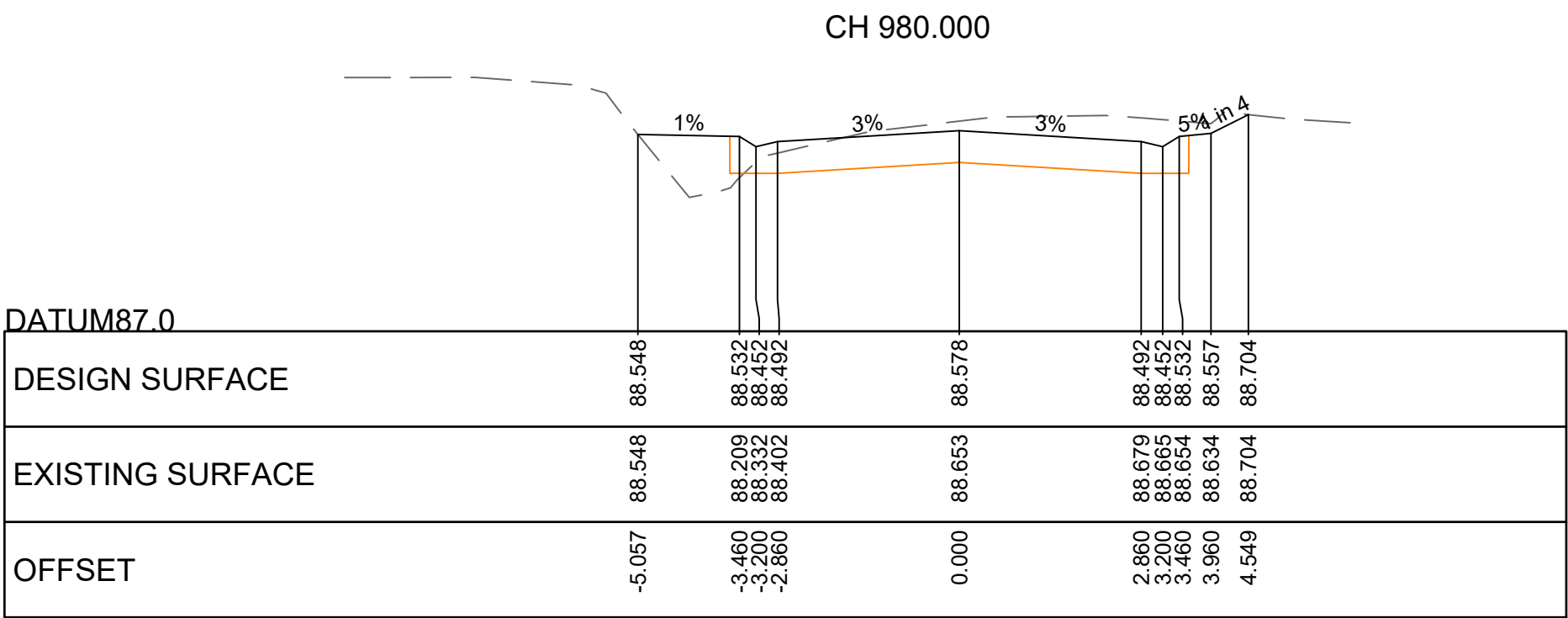
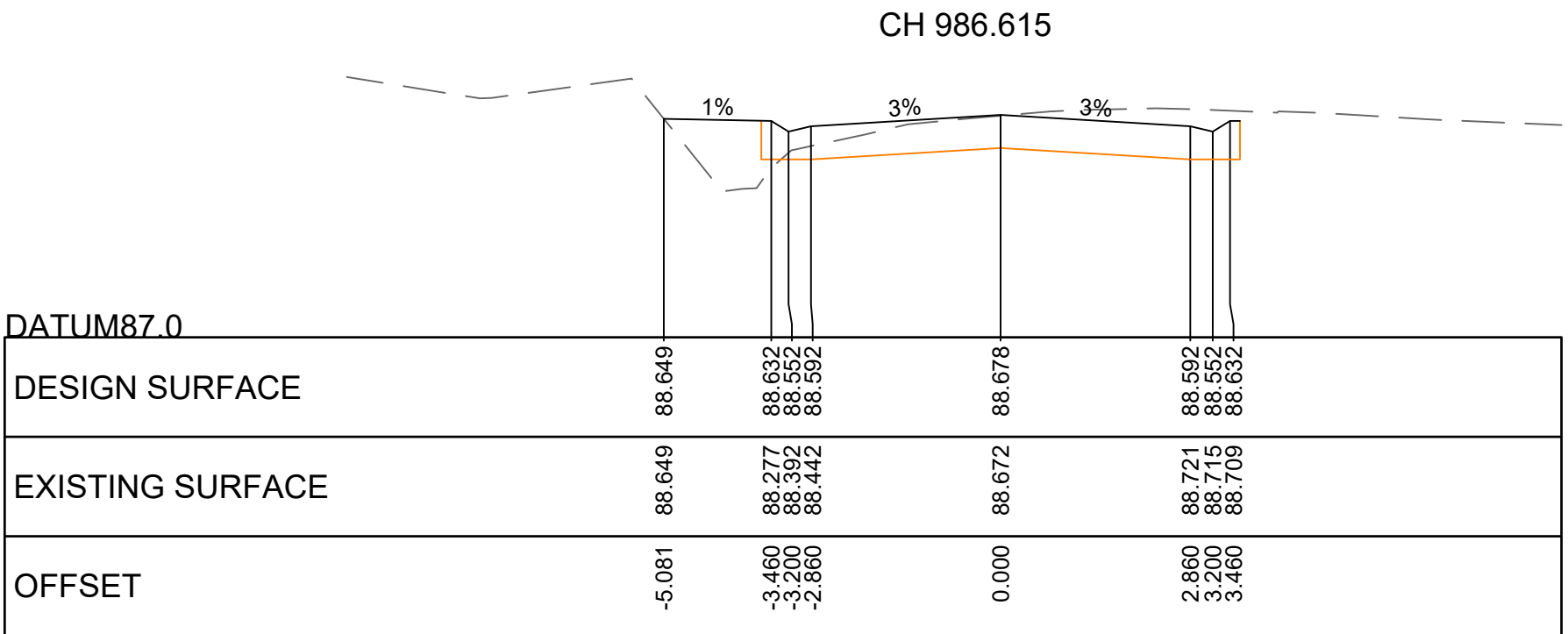
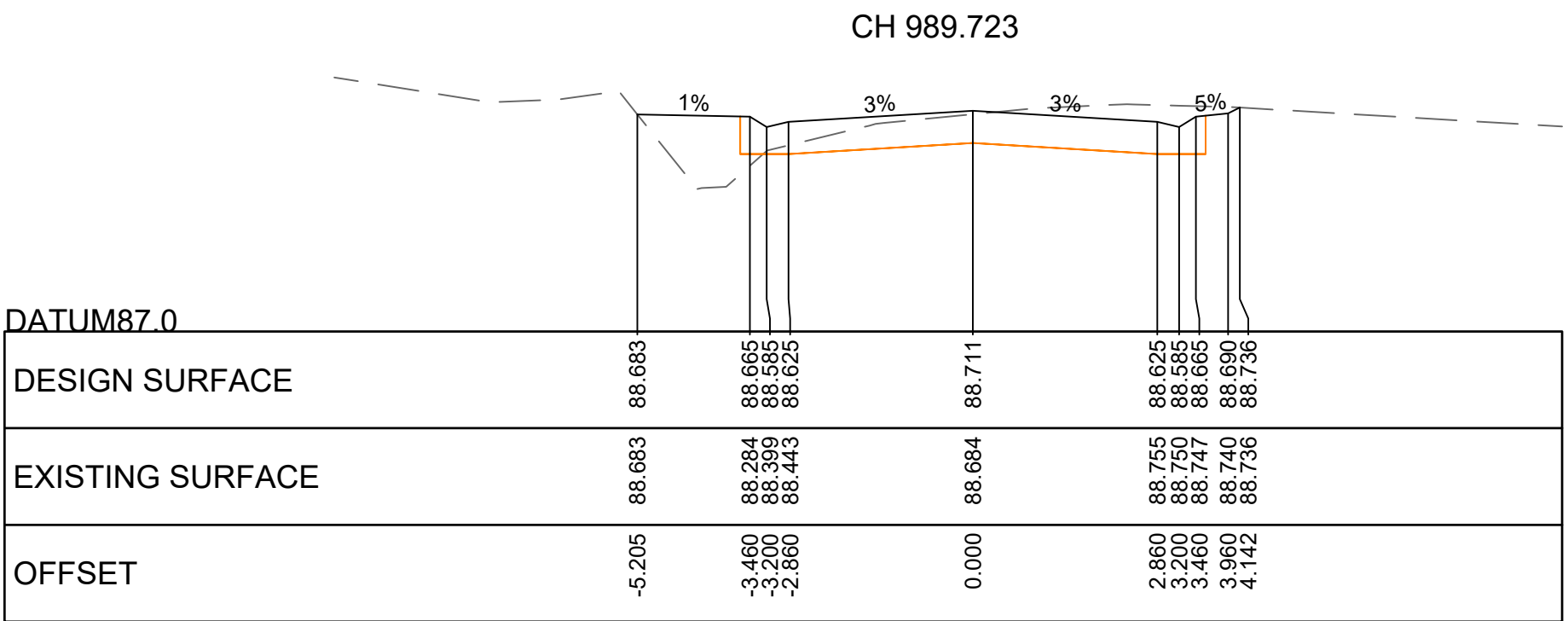
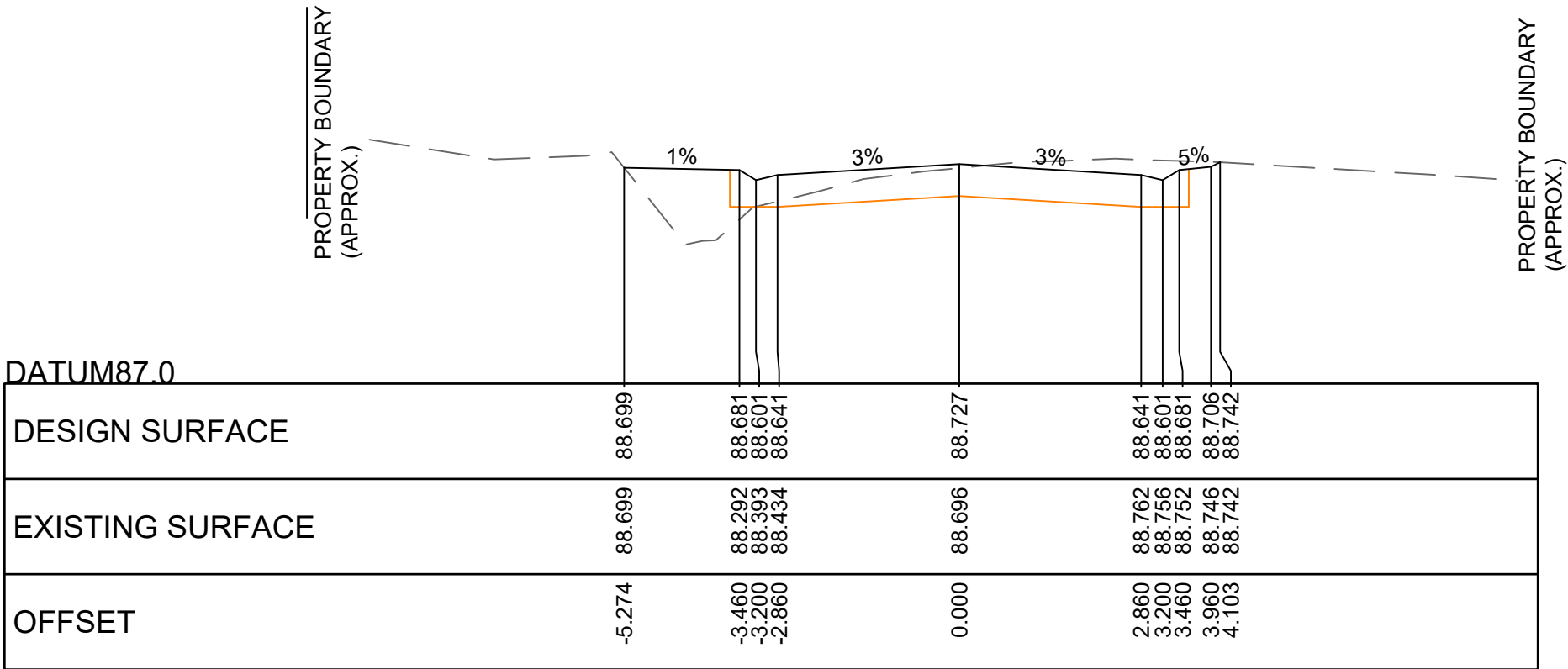
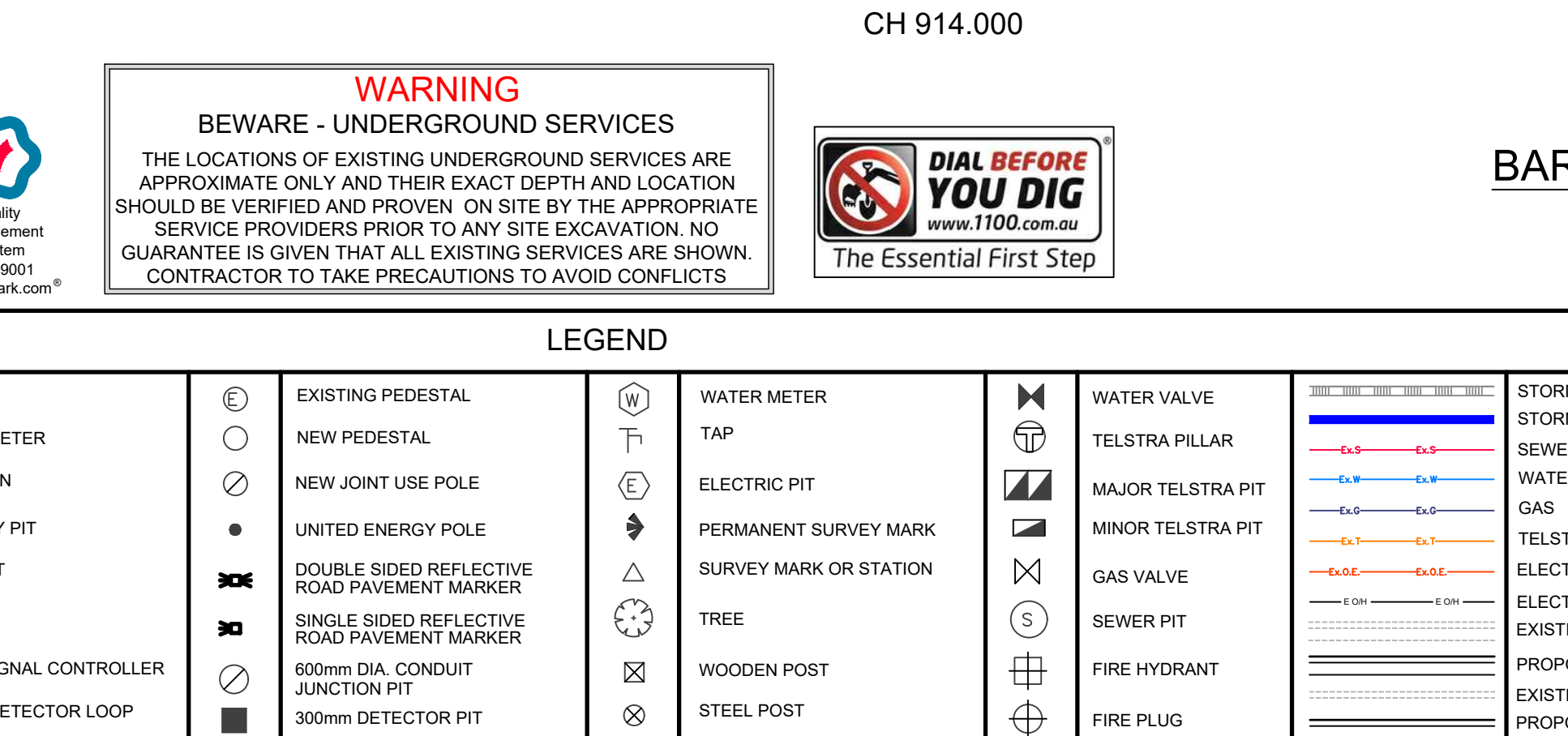
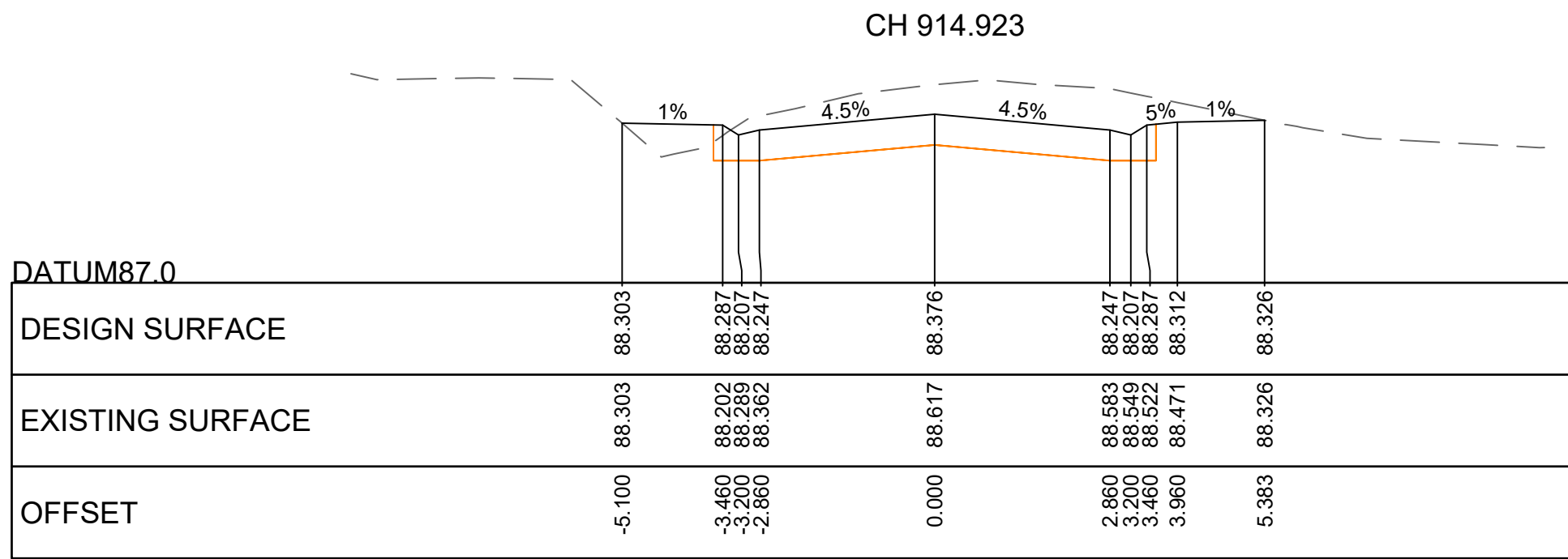
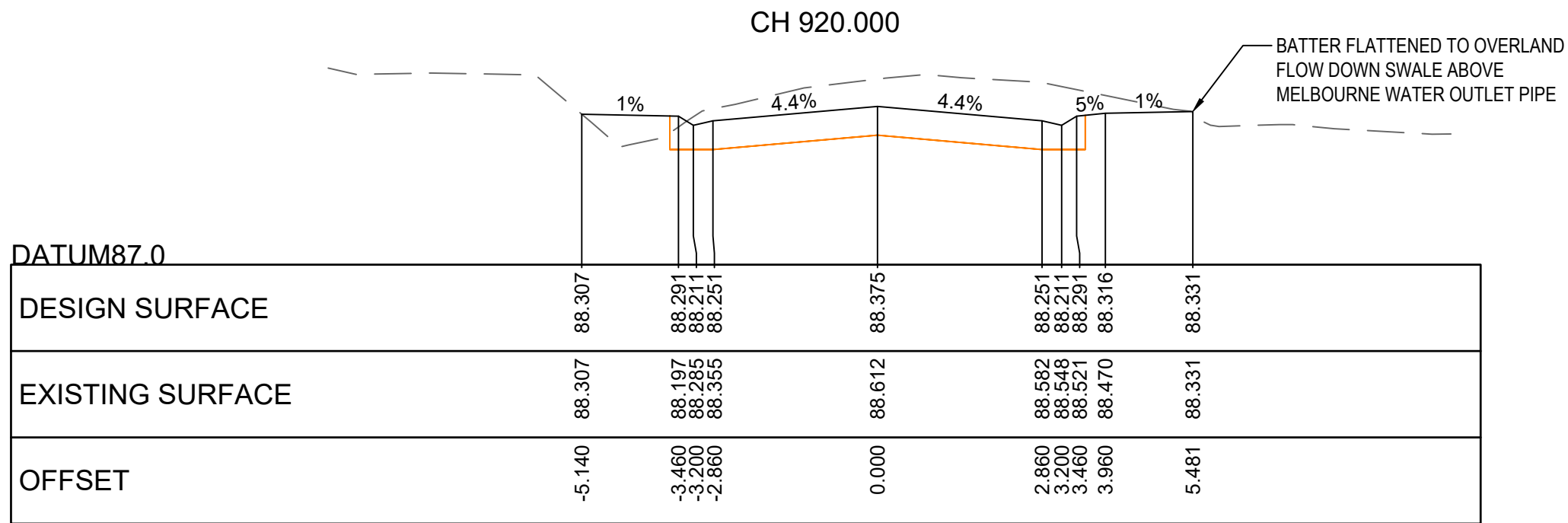
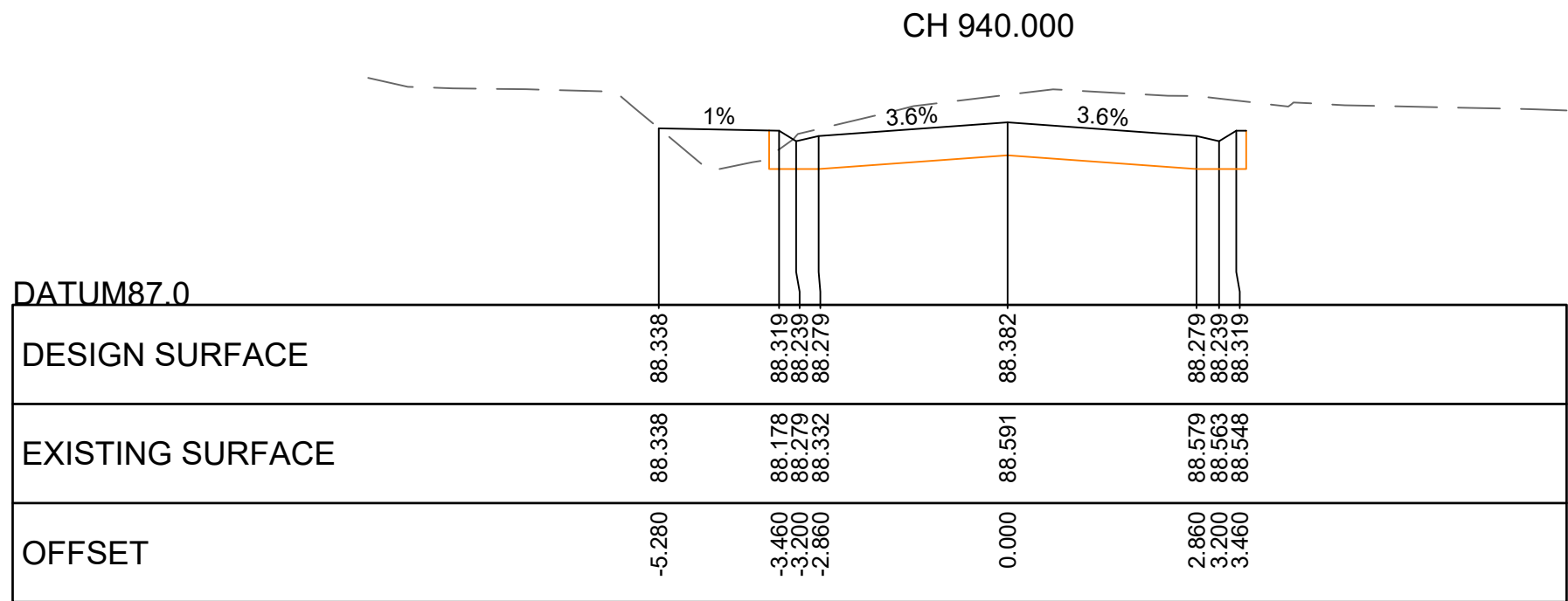
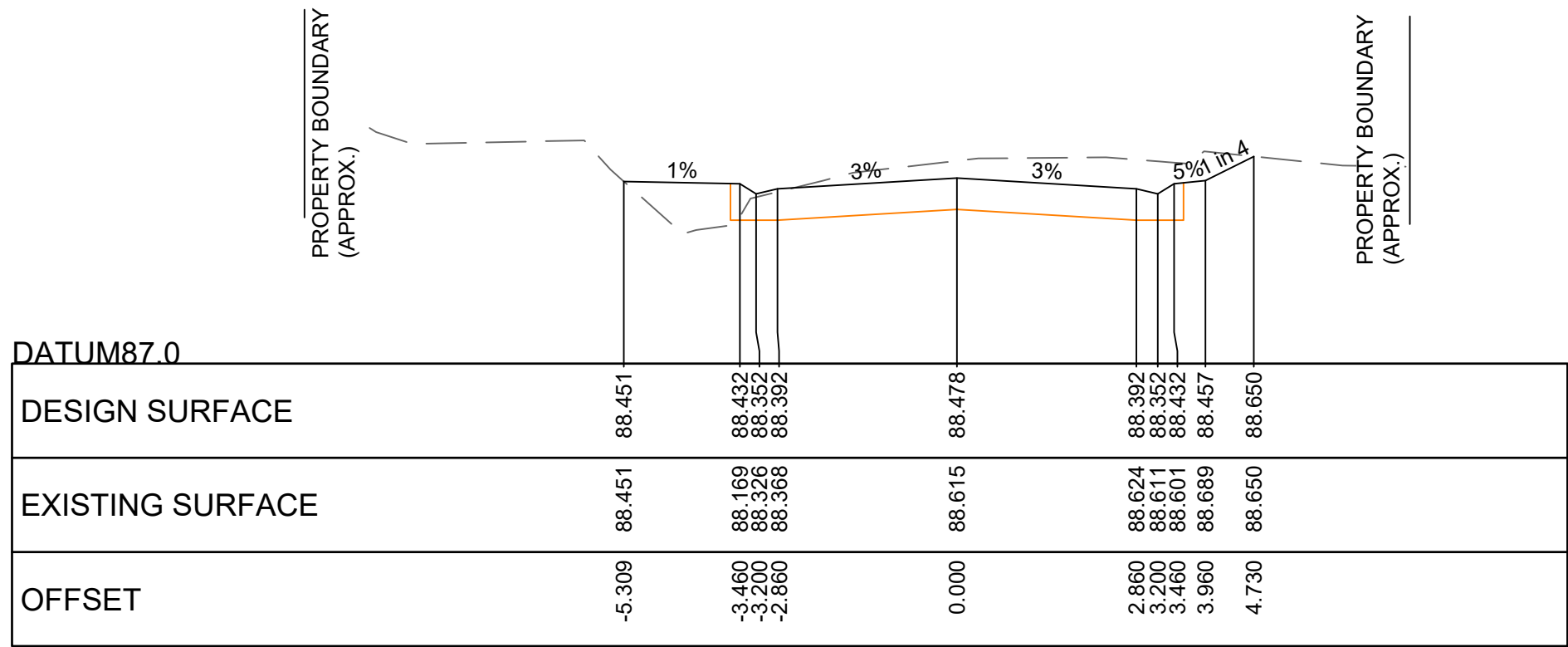


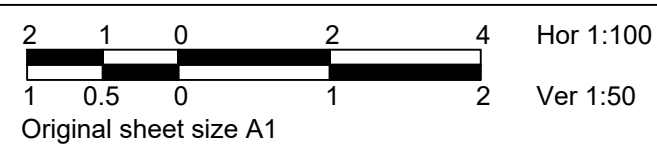
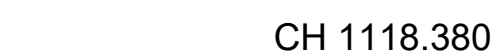
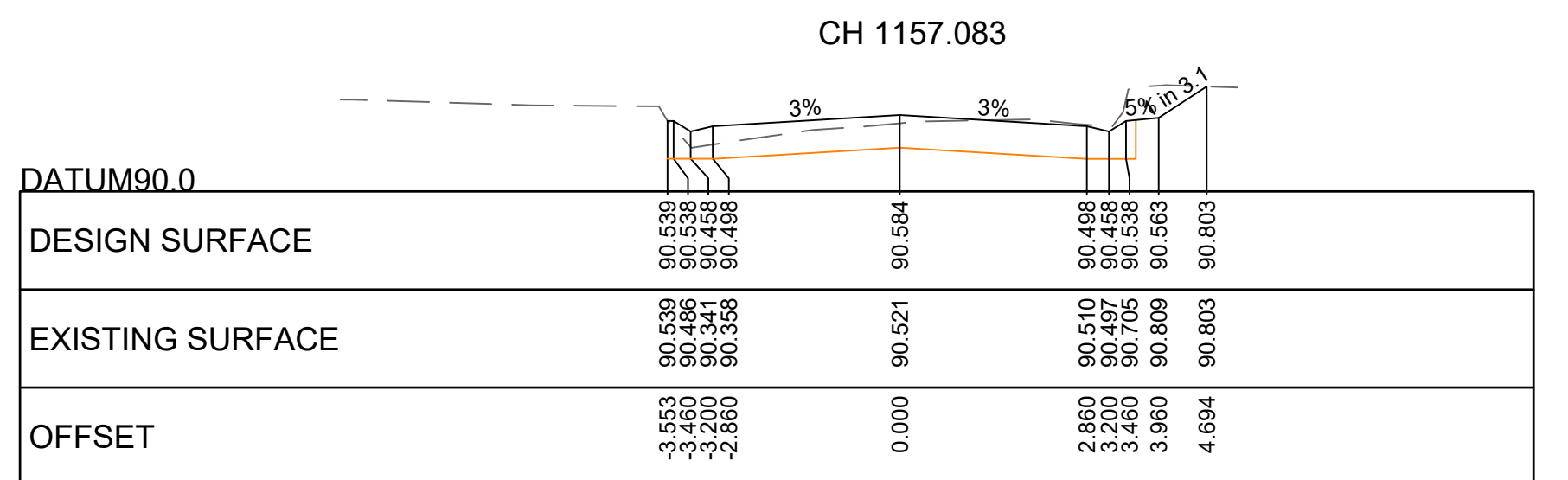
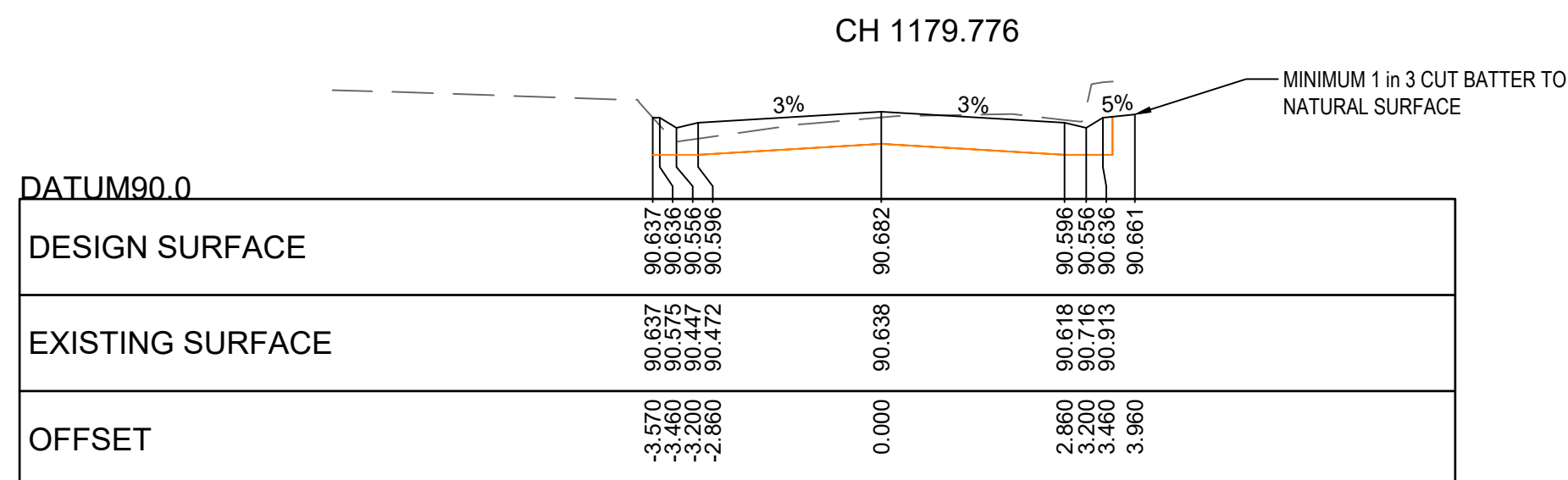
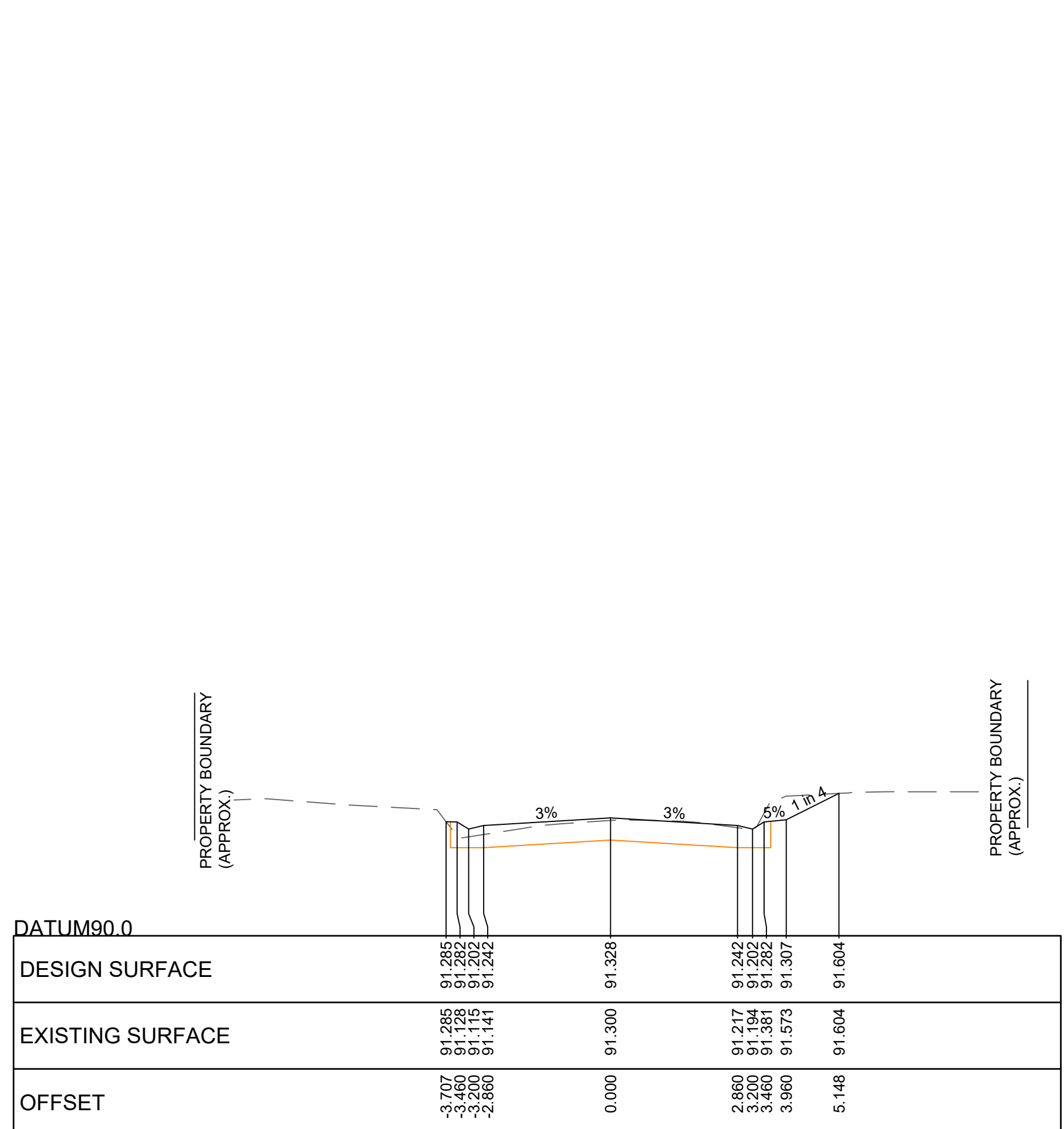
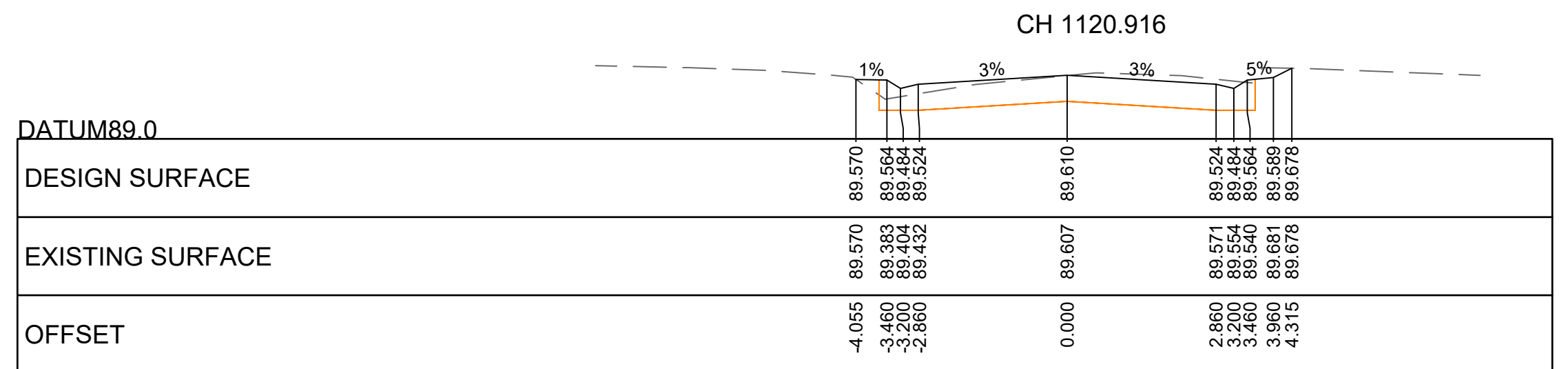
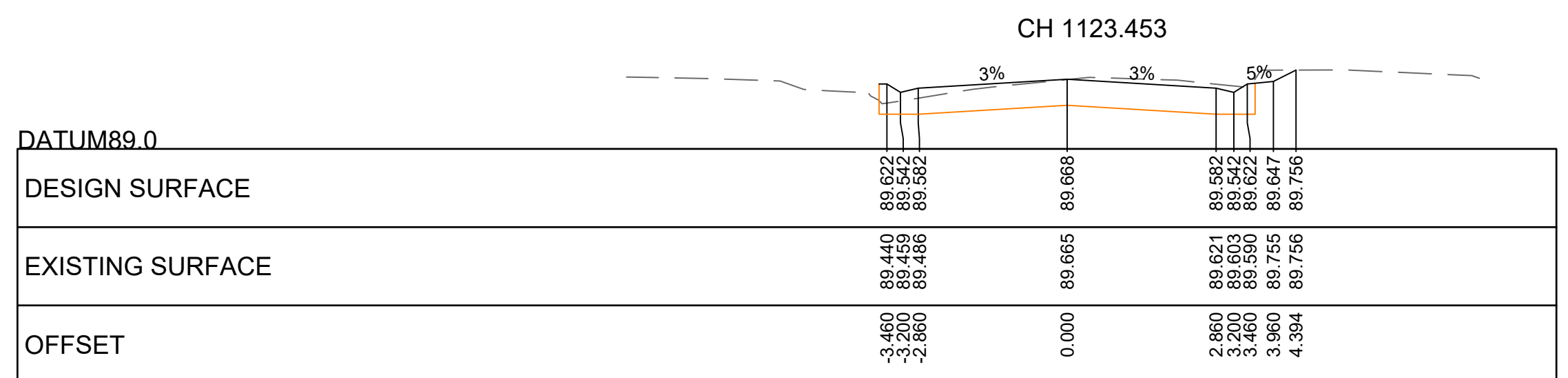
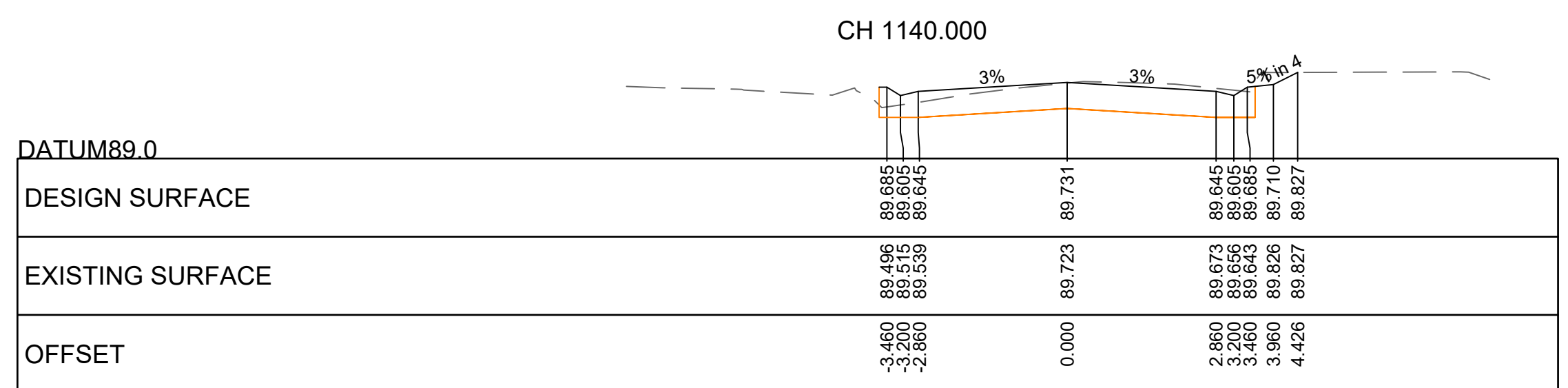
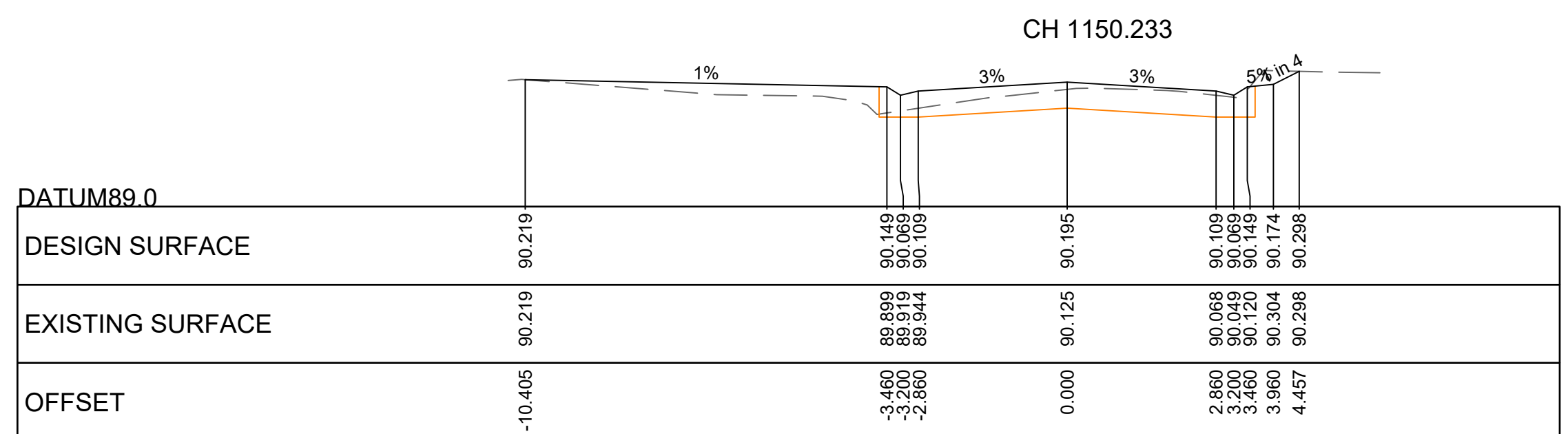
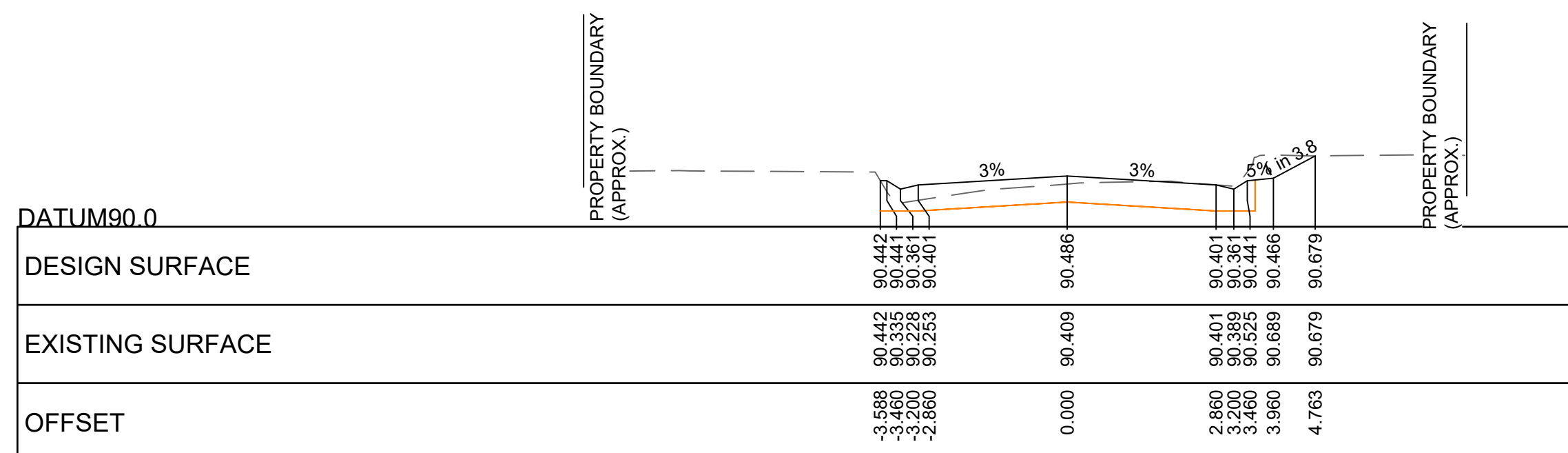
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	AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION			Rev. No.
	ORIGINAL ISSUE - FLP		04.10.19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C5.dwg	BARRETTS ROAD CROSS-SECTIONS - SHEET 9 OF 14			
	DETAILED DESIGN		19-12-19	01	2							DRAWING No. CWP4191/C509
	SERVICE PROVING RESULTS ADDED		18-06-20	02	3	DESIGN	TB (JCA)	DATUM AHD	APPROVED BY Infrastructure Manager			
	LAWTON RESERVE FRONTAGE AMENDED		03-09-20	03	4						DATE / /	
	CONSTRUCTION ISSUE		18-10-22	04	5	SURVEY	JCA	COUNCIL APPROVAL MEETING No. / /	DATE / /			
					6						SCALE AS SHOWN	
					7	DESIGN CHECKED	MD (JCA)	CONTRACT No.	CWP4191/C509			
					8	APPROVED BY	C.W.C.				04	
					9							
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LEGEND											AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS - SHEET 11 OF 14			
											ORIGINAL ISSUE - FLP	04.10.19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C5.dwg							
											DETAILED DESIGN	19-12-19	01	2										
											SERVICE PROVING RESULTS ADDED	18-06-20	02	3	DESIGN	TB (JCA)	DATUM AHD							
											LAWTON RESERVE FRONTAGE AMENDED	03-09-20	03	4										
											CONSTRUCTION ISSUE	18-10-22	04	5	SURVEY	JCA	COUNCIL APPROVAL MEETING No. / /							
														6										
														7	DESIGN CHECKED	MD (JCA)	CONTRACT No.	SCALE	AS SHOWN	DRAWING No.	Rev. No.			
														8										
														9	APPROVED BY	C.W.C.				CWP4191/C511	04			
													10											
													11											
													12	DATE / /		APPROVED BY Infrastructure Manager		DATE / /						





CONSTRUCTION ISSUE

CONSTRUCTION ISSUE


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 Ringwood Victoria, Australia 3134
 Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

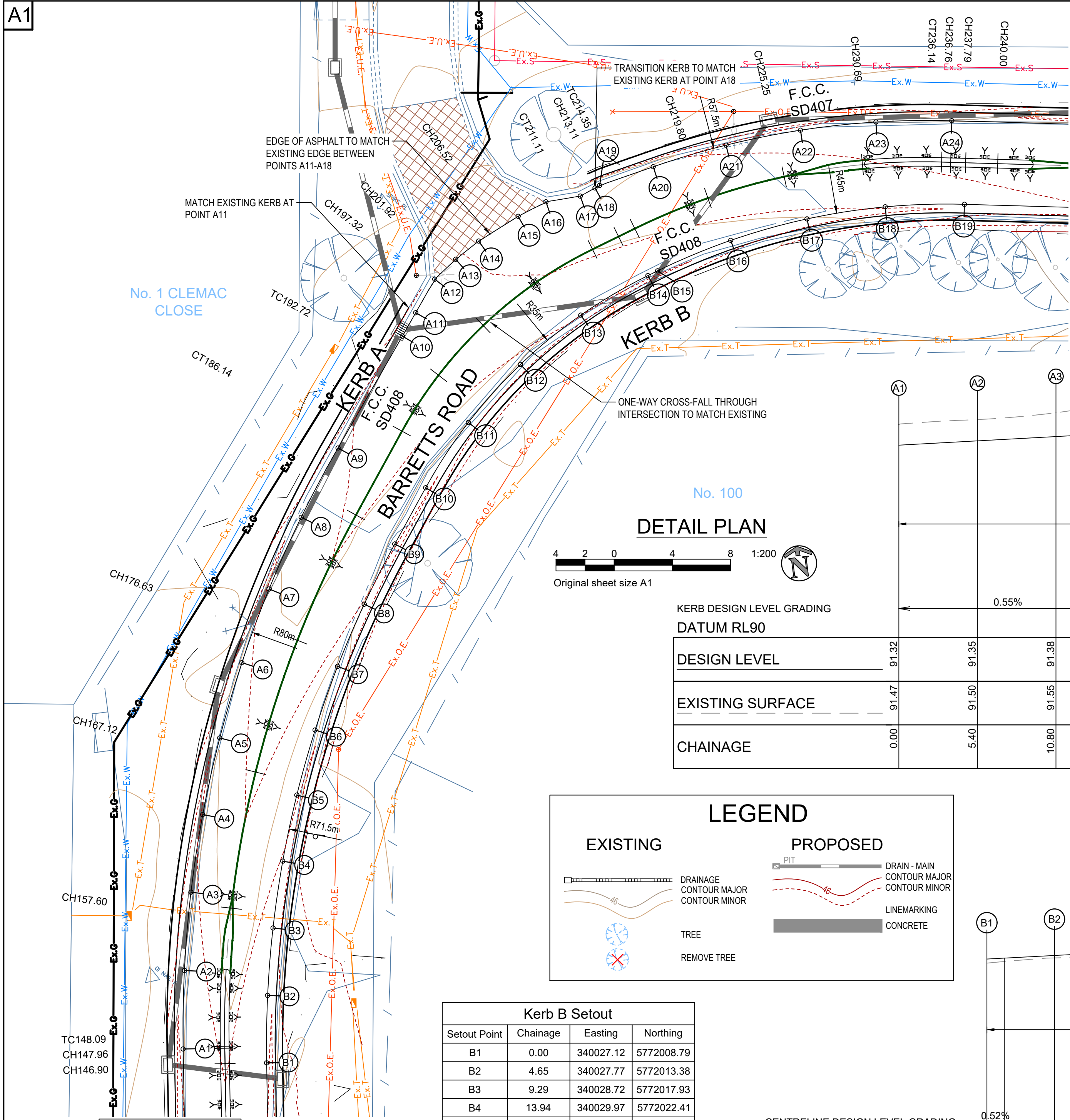

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE
APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION
SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE
SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO
GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.
CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



LEGEND										
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE	 STORMWATER (EXISTING)  STORMWATER (PROPOSED)  SEWER  WATER  GAS  TELSTRA  ELECTRICITY (UNDERGROUND)  ELECTRICITY (OVERHEAD)  EXISTING KERB & CHANNEL  EXISTING KERB  PROPOSED KERB
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR	
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT	
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT	
	EXISTING STREET LIGHTING LANTERN		GRADED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE	
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT	
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT	
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG	



AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD CROSS-SECTIONS - SHEET 14 OF 14						
ORIGINAL ISSUE - FLP				04.10.19	00	1	DRAWN TB (JCA)		FILE No. 25340 C5.dwg								
DETAILED DESIGN				19-12-19	01	2											
SERVICE PROVING RESULTS ADDED				18-06-20	02	3	DESIGN TB (JCA)		DATUM AHD								
LAWTON RESERVE FRONTAGE AMENDED				03-09-20	03	4			COUNCIL APPROVAL								
CONSTRUCTION ISSUE				18-10-22	04	5	SURVEY JCA		MEETING No. / /								
						6											
						7	DESIGN		MD (JCA)		CONTRACT No.		SCALE AS SHOWN		DRAWING No.		Rev. No.
						8	CHECKED								CWP4191/C514		04
						9	APPROVED BY		C.W.C.								
						10											
						11											
						12	DATE / /		APPROVED BY Infrastructure Manager		DATE / /						



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JCA Land Consultants
Surveying - Engineering - Town Planning
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Ringwood Victoria, Australia 3134
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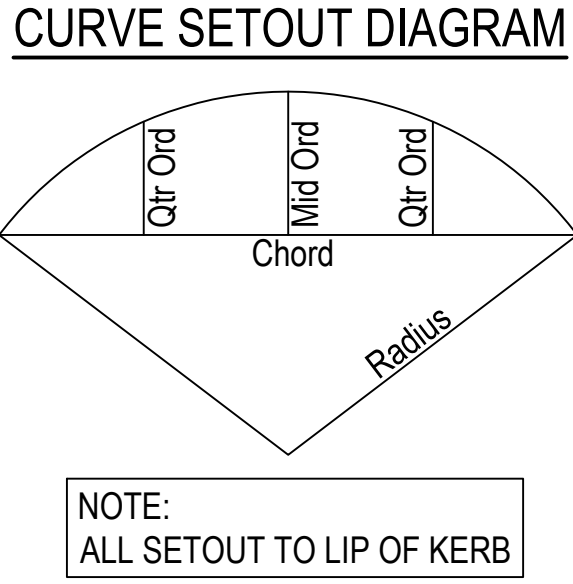
Kerb B Setout			
Setout Point	Chainage	Easting	Northing
B1	0.00	340027.12	5772008.79
B2	4.65	340027.77	5772013.38
B3	9.29	340028.72	5772017.93
B4	13.94	340029.97	5772022.41
B5	18.59	340031.50	5772026.79
B6	23.23	340033.32	5772031.07
B7	27.88	340035.40	5772035.22
B8	32.52	340037.76	5772039.22
B9	37.17	340040.37	5772043.07
B10	41.58	340042.96	5772046.63
B11	46.95	340046.44	5772050.71
B12	52.31	340050.49	5772054.22
B13	57.67	340055.04	5772057.06
B14	63.04	340059.96	5772059.17
B15	63.78	340060.66	5772059.41
B16	69.23	340065.91	5772060.86
B17	74.68	340071.30	5772061.66
B18	80.12	340076.74	5772061.80
B19	85.57	340082.16	5772061.28

Kerb B Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
B1-B9	71.5	36.753	2.402	1.809
B10-B14	35	21.123	1.632	1.231
B15-B19	45	21.578	1.312	0.988

LEGEND			

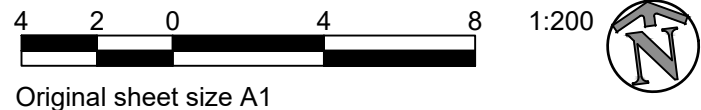
Kerb A Setout						
Setout Point	Chainage	Easting	Northing	Setout Point	Chainage	Northing
A1	0.00	340021.54	5772010.46	A13	58.56	340047.00
A2	5.40	340022.31	5772015.80	A14	60.58	340048.72
A3	10.80	340023.44	5772021.08	A15	63.78	340051.63
A4	16.20	340024.92	5772026.28	A16	65.94	340053.65
A5	21.60	340026.74	5772031.36	A17	68.33	340056.04
A6	27.00	340028.91	5772036.30	A18	69.48	340057.11
A7	32.40	340031.40	5772041.09	A19	69.85	340057.45
A8	37.80	340034.21	5772045.70	A20	73.75	340061.27
A9	43.20	340037.33	5772050.11	A21	78.97	340066.42
A10	52.07	340042.69	5772057.17	A22	84.19	340071.62
A11	53.92	340043.80	5772058.66	A23	89.41	340076.84
A12	56.58	340045.39	5772060.78	A24	94.63	340082.03

Kerb A Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
A1-A9	80	42.676	2.898	2.184
A20-A24	57.5	20.765	0.945	0.710



NOTE:
ALL SETOUT TO LIP OF KERB

DETAIL PLAN



KERB DESIGN LEVEL GRADING
DATUM RL90

DESIGN LEVEL

EXISTING SURFACE

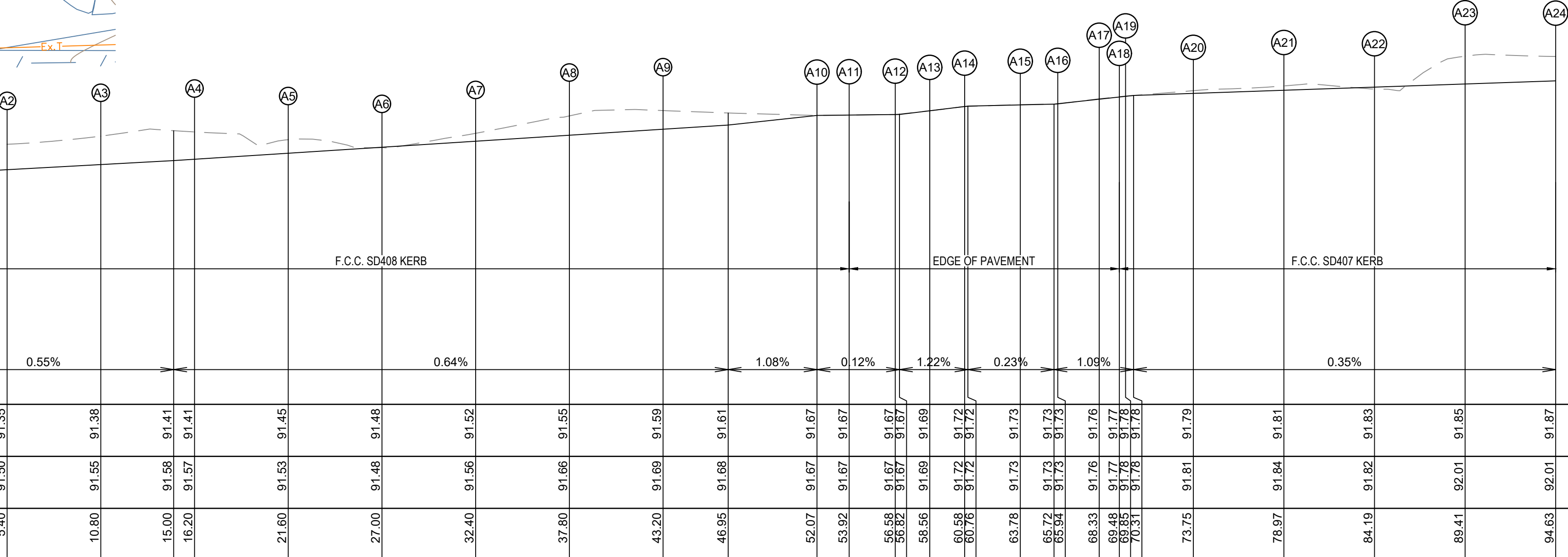
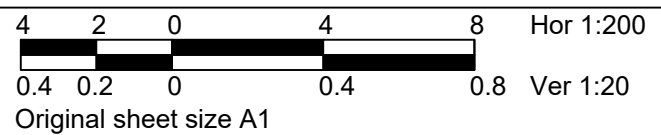
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LEGEND

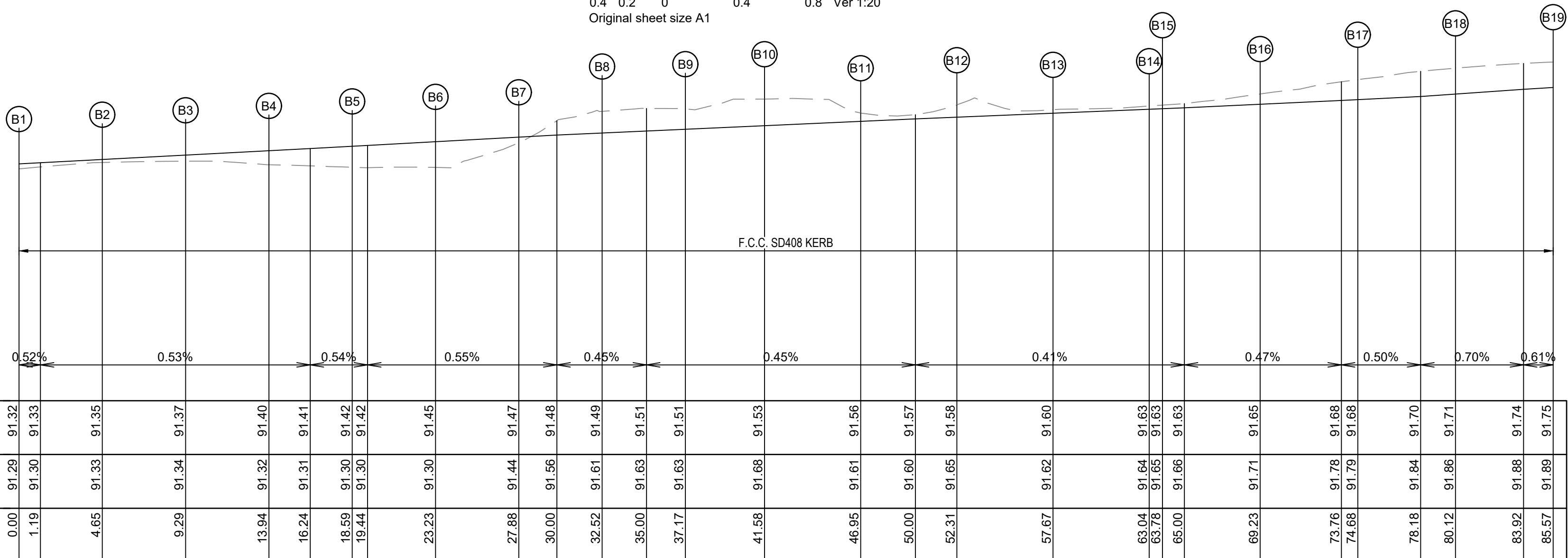
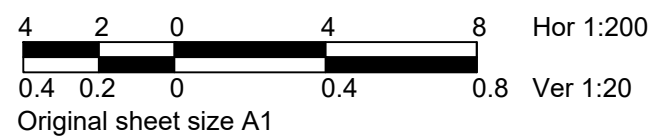
EXISTING

PROPOSED

KERB A LONGITUDINAL SECTION



KERB B LONGITUDINAL SECTION



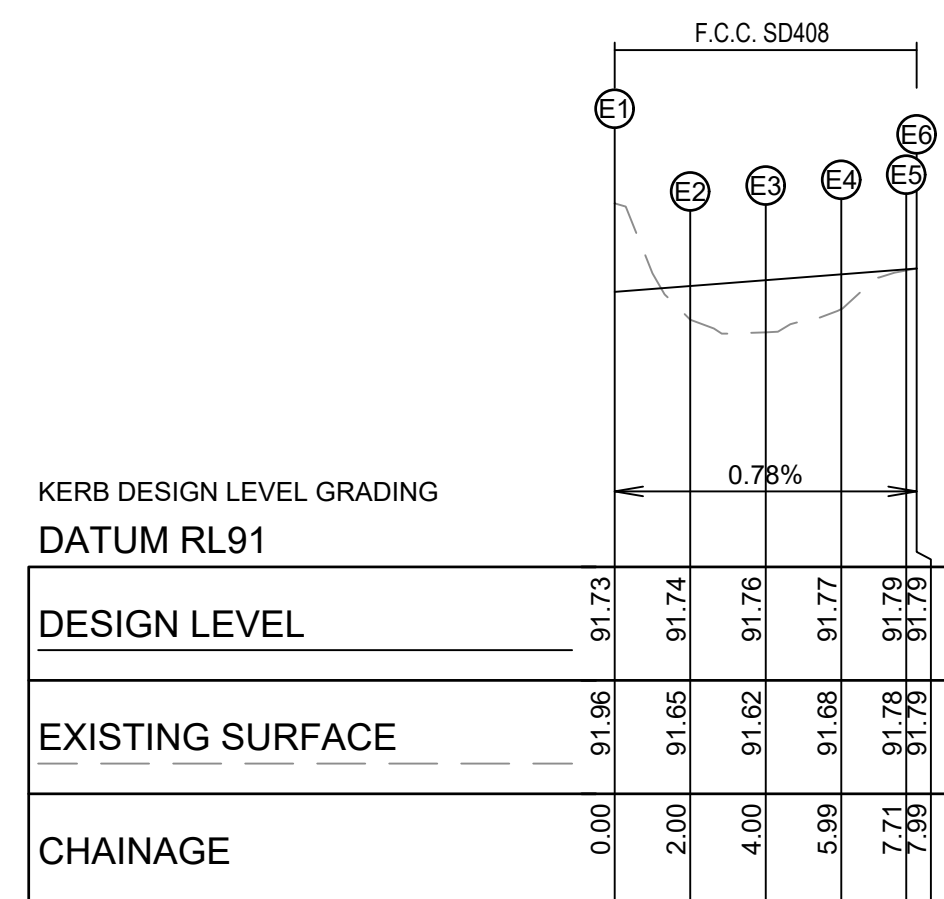
CONSTRUCTION ISSUE

CONSTRUCTION ISSUE

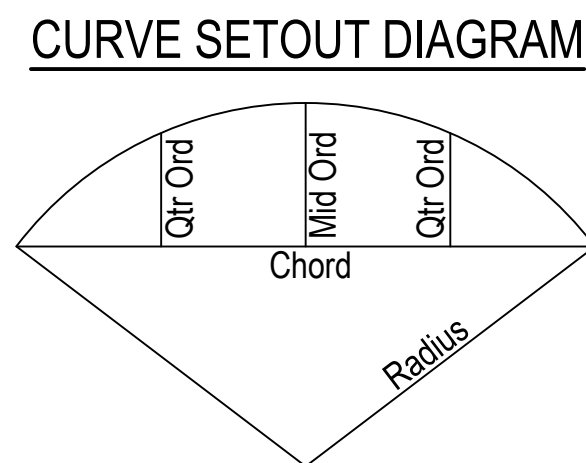
LEGEND



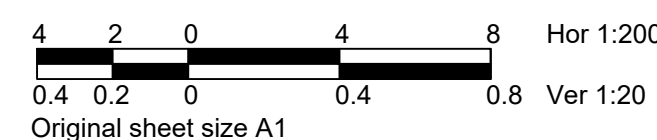
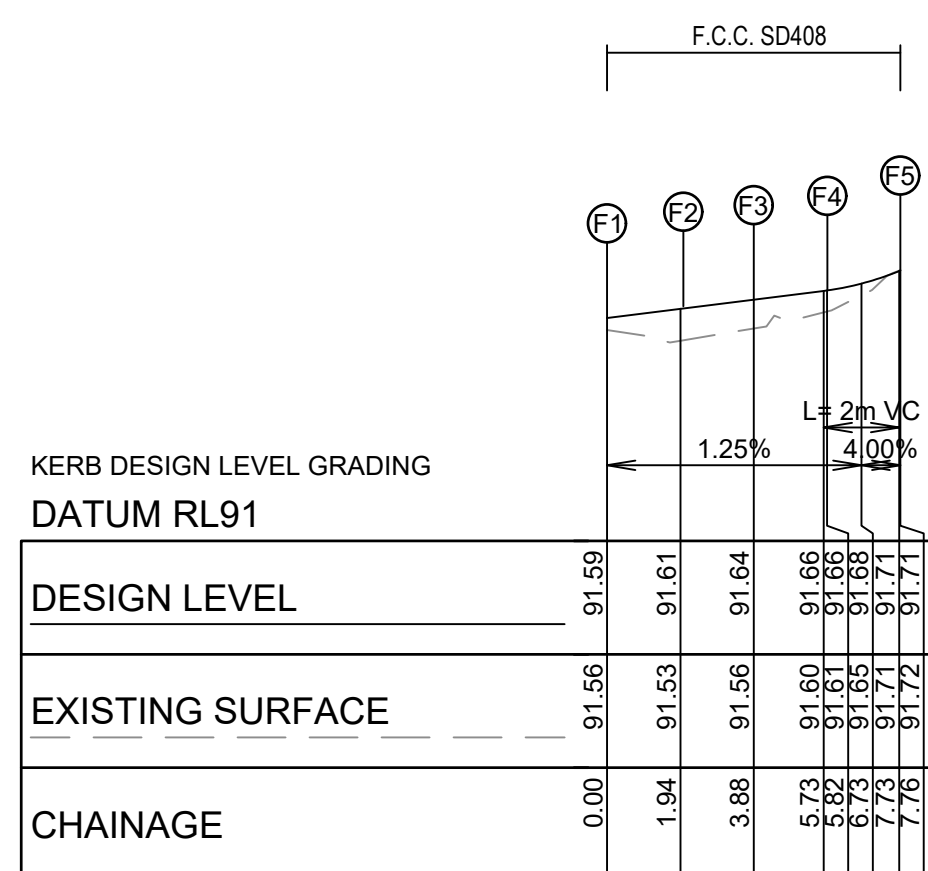
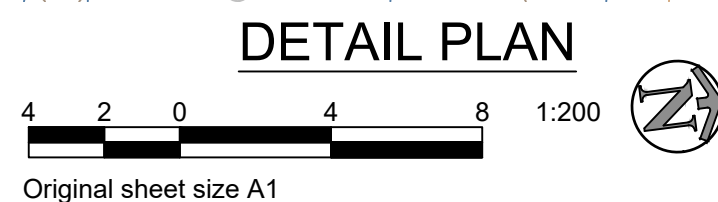
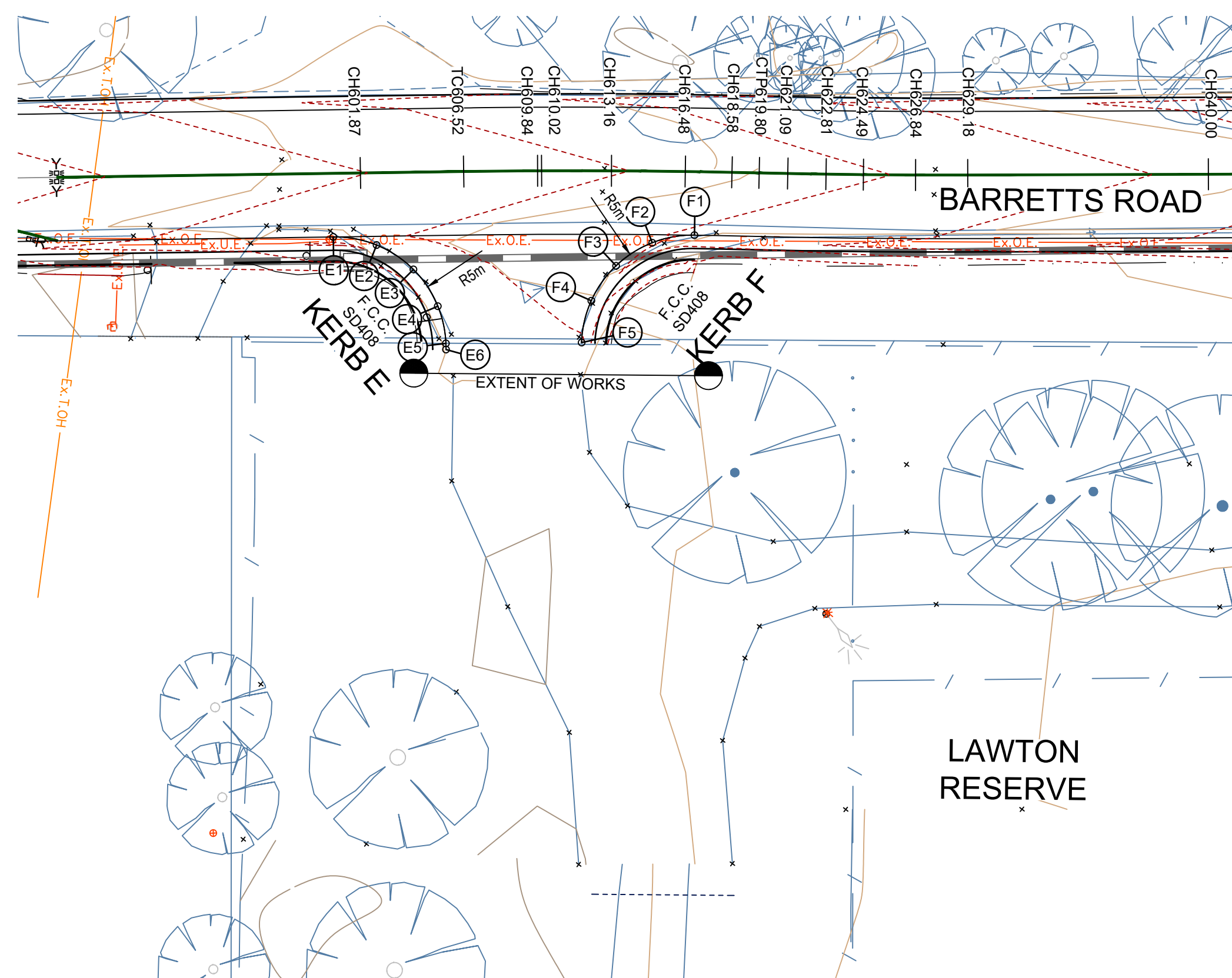
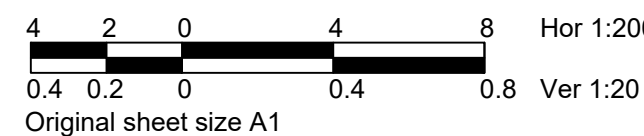
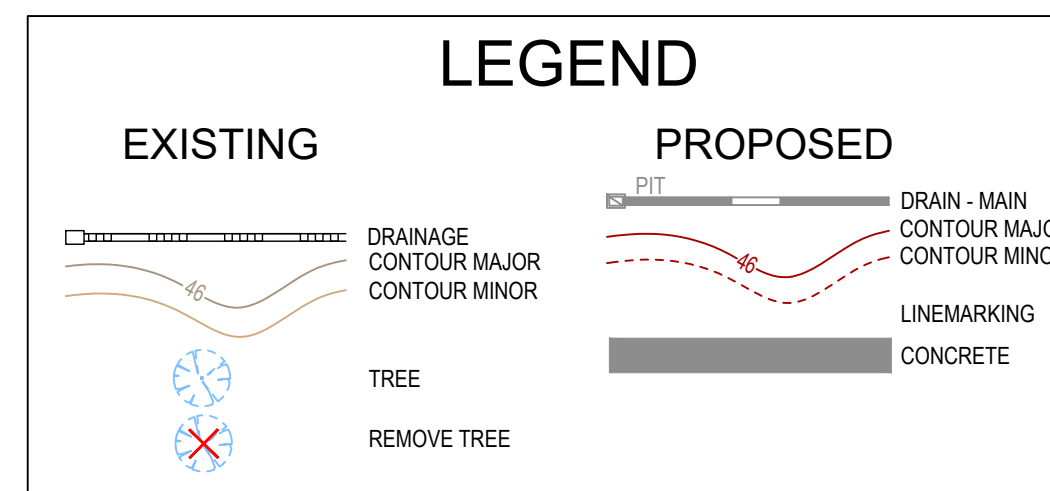
AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION BARRETTS ROAD KERB A AND B DETAIL PLANS AND LONGITUDINAL SECTIONS			
ORIGINAL ISSUE		19-12-19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C6.dwg				
SERVICE PROVING RESULTS ADDED		18-06-20	01	2							
LAWTON RESERVE FRONTAGE AMENDED		03-09-20	02	3	DESIGN	TB (JCA)	DATUM AHD				
CONSTRUCTION ISSUE		18-10-22	03	4							
				5	SURVEY	JCA	COUNCIL APPROVAL MEETING No. / /				
				6							
				7	DESIGN	MD (JCA)	CONTRACT No.	SCALE	AS SHOWN	DRAWING No.	Rev. No.
				8	CHECKED						
				9	APPROVED BY	C.W.C.					
				10							
				11							
				12	DATE / /		APPROVED BY Infrastructure Manager			CWP4191/C601	03
								DATE / /			



Kerb E Setout			
Setout Point	Chainage	Easting	Northing
E1	0.00	340356.40	5772140.78
E2	2.00	340357.01	5772142.67
E3	4.00	340358.30	5772144.17
E4	5.99	340360.08	5772145.05
E5	7.71	340361.79	5772145.20
E6	7.99	340362.06	5772145.17

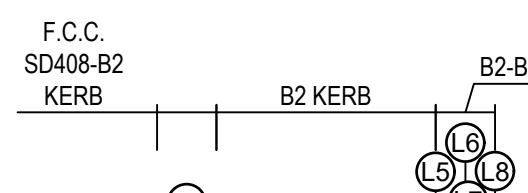
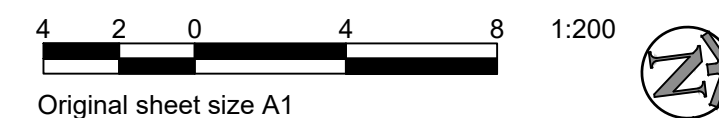
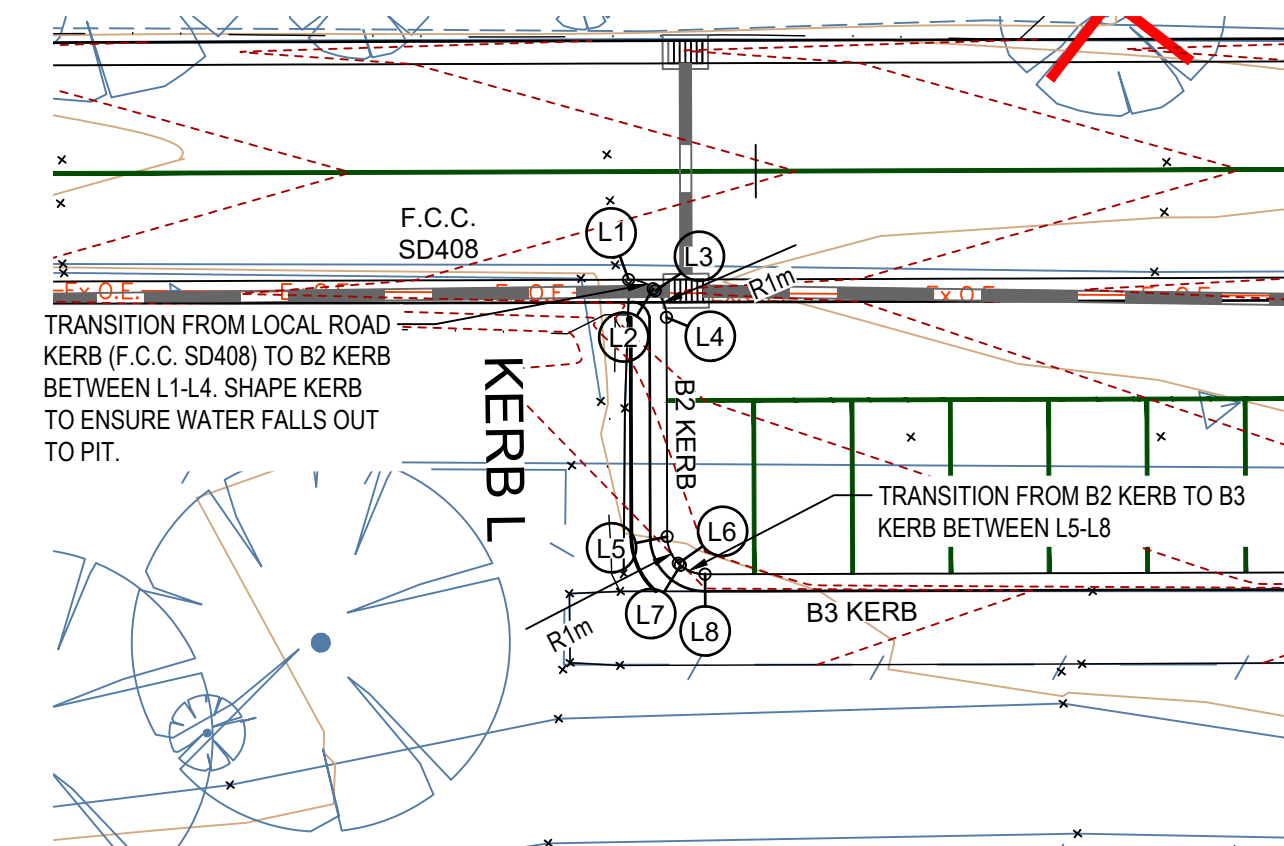


NOTE:
ALL SETOUT TO LIP OF KERB



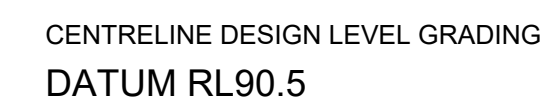
Kerb F Setout			
Setout Point	Chainage	Easting	Northing
F1	0.00	340358.37	5772156.90
F2	1.94	340358.47	5772154.98
F3	3.88	340359.30	5772153.23
F4	5.82	340360.72	5772151.93
F5	7.76	340362.52	5772151.26

Kerb F Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
F1-F5	5	7.005	1.432	1.115

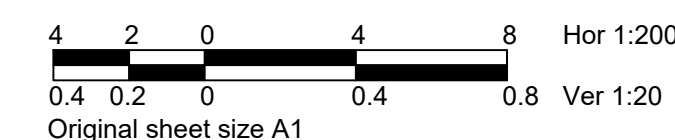


Kerb L Setout			
Setout Point	Chainage	Easting	Northing
L1	0.00	340363.47	5772196.33
L2	0.71	340363.79	5772196.99
L3	0.79	340363.84	5772196.99
L4	1.57	340364.58	5772197.11
L5	7.37	340370.34	5772196.43
L6	8.16	340371.08	5772196.66
L7	8.23	340371.13	5772196.77
L8	8.94	340371.45	5772197.33

Kerb L Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
L1-L4	1	1.414	0.293	0.228
L5-L8	1	1.414	0.293	0.228



DESIGN LEVEL			
EXISTING SURFACE	91.22	91.25	91.33
CHAINAGE	0.00	91.22	91.30
	0.71	91.25	91.41
	1.42	91.28	91.47
	1.57	91.33	91.42
	2.24	91.25	91.26
	4.47	91.30	91.33
	6.71	91.37	91.40
	7.37	91.40	91.41
	8.16	91.41	91.42
	8.94	91.42	91.43
	9.73	91.43	91.44



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LEGEND											
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		STORMWATER (EXISTING)
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR		STORMWATER (PROPOSED)
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT		WATER
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT		GAS
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE		TELSTRA
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT		ELECTRICITY (UNDERGROUND)
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT		ELECTRICITY (OVERHEAD)
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG		EXISTING KERB & CHANNEL
											PROPOSED KERB & CHANNEL
											EXISTING KERB
											PROPOSED KERB



AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION LAWTON RESERVE SECONDARY ACCESS AND KERB L DETAIL PLAN AND LONGITUDINAL SECTIONS			
ORIGINAL ISSUE				19-12-19	00	1	DRAWN TB (JCA)		FILE No. 25340 C6.dwg					
SERVICE PROVING RESULTS ADDED				18-06-20	01	2								
LAWTON RESERVE FRONTAGE AMENDED				03-09-20	02	3	DESIGN TB (JCA)		DATUM AHD		LAWTON RESERVE SECONDARY ACCESS AND KERB L DETAIL PLAN AND LONGITUDINAL SECTIONS			
CONSTRUCTION ISSUE				18-10-22	03	4								
						5	SURVEY JCA		COUNCIL APPROVAL MEETING No. / /					
						6					SCALE AS SHOWN DRAWING No. CWP4191/C603 Rev. No.			
						7	DESIGN MD (JCA)		CONTRACT No.					
						8								
						9	APPROVED BY C.W.C.				DATE / / DATE / / 03			
						10								
						11								
						12	APPROVED BY Infrastructure Manager							
							DATE / /							

A1

Kerb G Setout			
Setout Point	Chainage	Easting	Northing
G1	0.00	340386.28	5772247.49
G2	7.37	340378.98	5772248.52
G3	8.20	340378.16	5772248.63
G4	11.37	340375.01	5772248.45
G5	14.54	340372.18	5772247.06
G6	17.72	340370.10	5772244.69
G7	20.18	340369.23	5772242.40
G8	20.88	340369.11	5772241.70
G9	23.62	340368.77	5772238.99
G10	24.41	340368.97	5772238.25
G11	25.19	340369.64	5772237.87
G12	30.99	340375.39	5772237.16
G13	31.28	340375.67	5772237.08
G14	31.78	340376.06	5772236.78
G15	32.56	340376.26	5772236.04

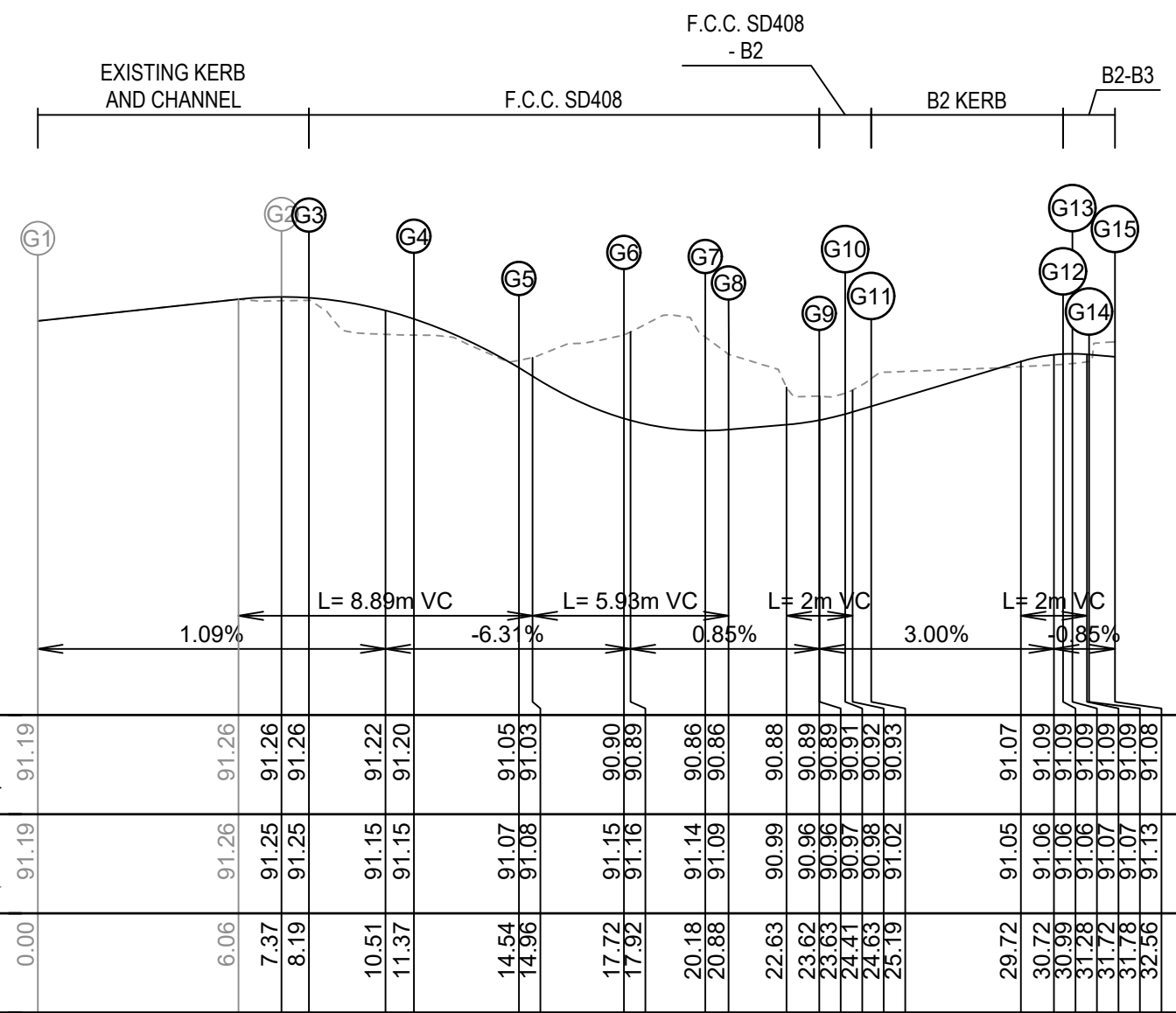
Kerb G Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
G3-G8	8	11.406	2.39	1.864
G9-G11	1	1.414	0.293	0.228
G12-G15	1	1.414	0.293	0.228

KERB DESIGN LEVEL GRADING
DATUM RL90

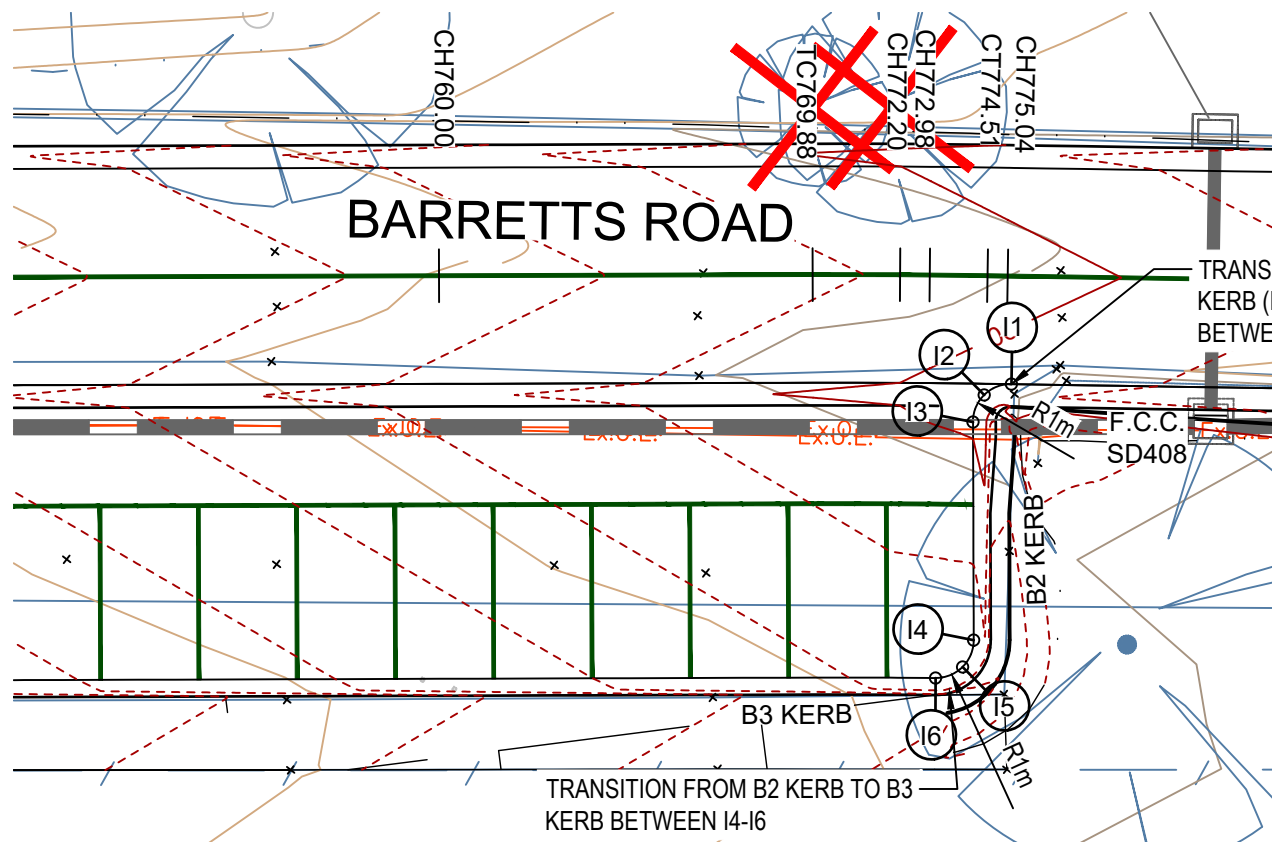
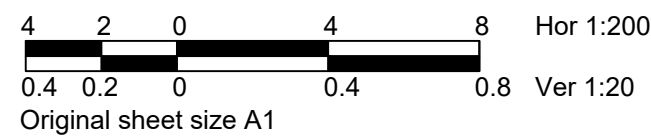
DESIGN LEVEL

EXISTING SURFACE

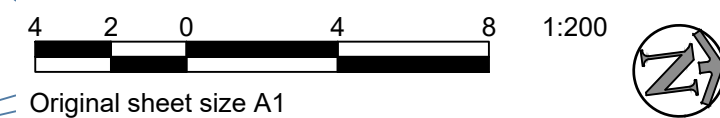
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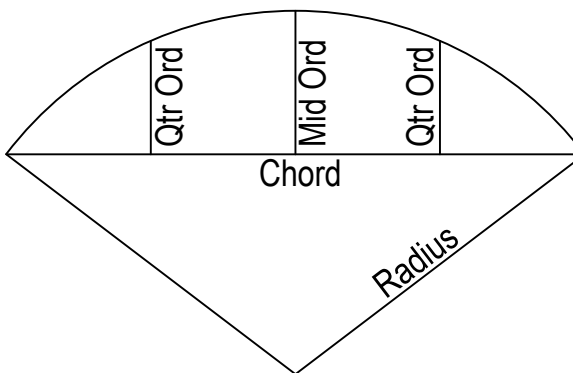
KERB G LONGITUDINAL SECTION



DETAIL PLAN KERB I



CURVE SETOUT DIAGRAM



NOTE:
ALL SETOUT TO LIP OF KERB

Kerb I Setout			
Setout Point	Chainage	Easting	Northing
I1	0.00	340378.14	5772313.91
I2	0.80	340378.33	5772313.16
I3	1.59	340379.00	5772312.77
I4	7.36	340384.73	5772312.06
I5	8.15	340385.40	5772311.68
I6	8.94	340385.59	5772310.93

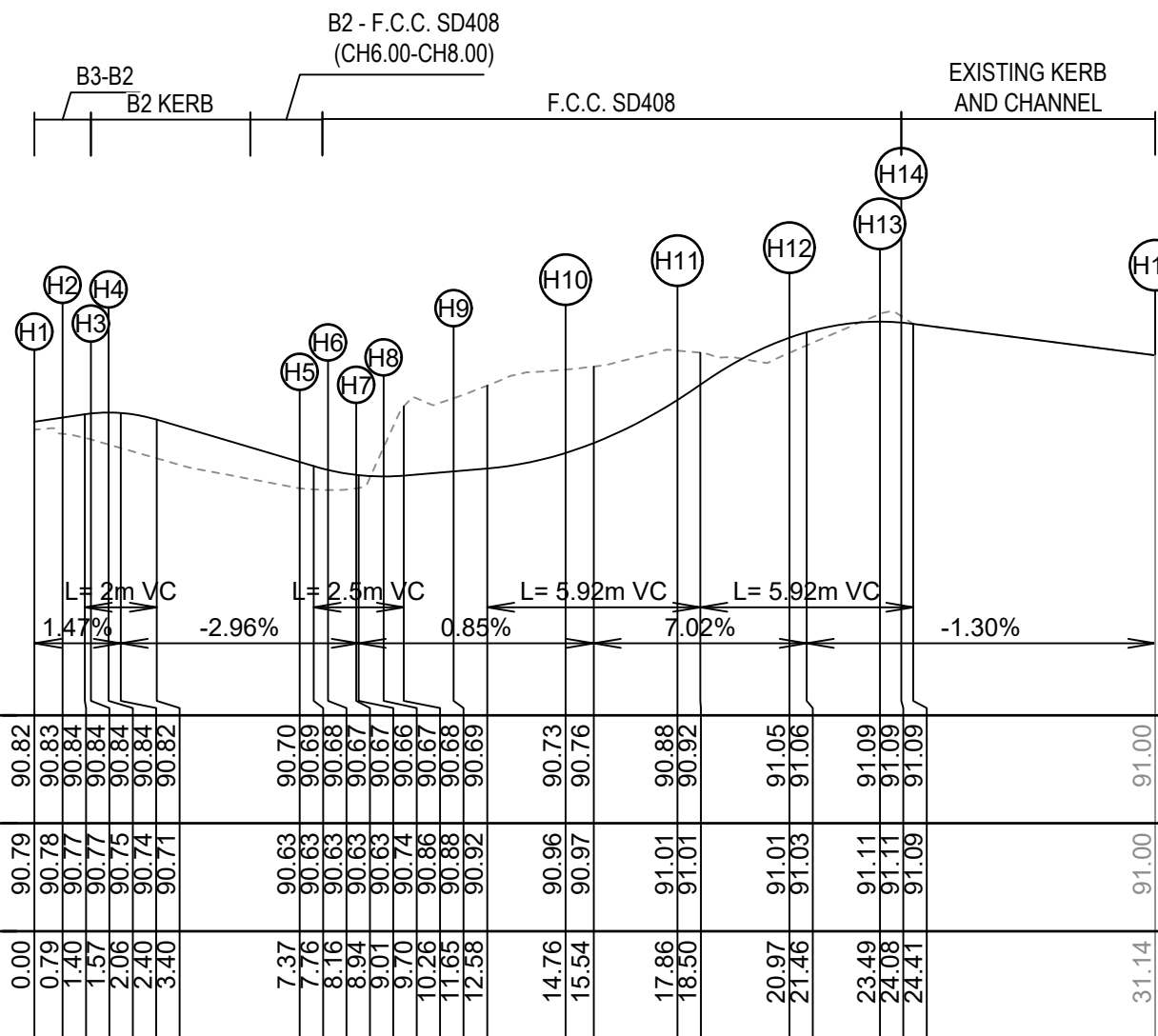
Kerb I Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
I1-I3	1	1.427	0.299	0.234
I4-I6	1	1.424	0.298	0.232

KERB DESIGN LEVEL GRADING
DATUM RL90

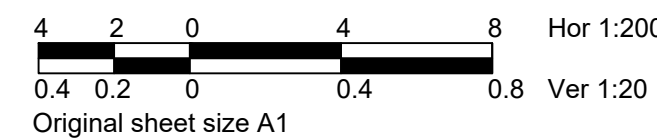
DESIGN LEVEL

EXISTING SURFACE

CHAINAGE

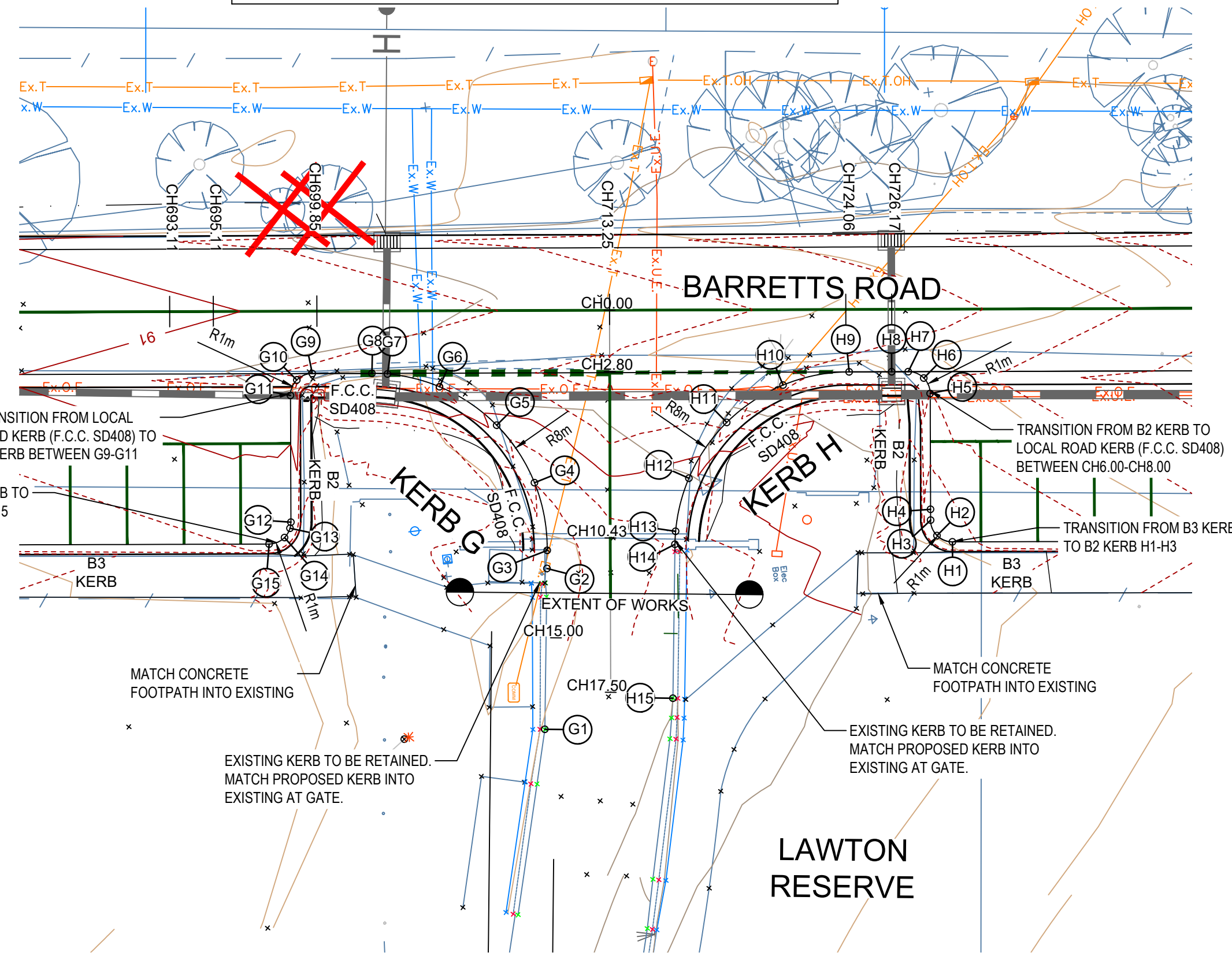
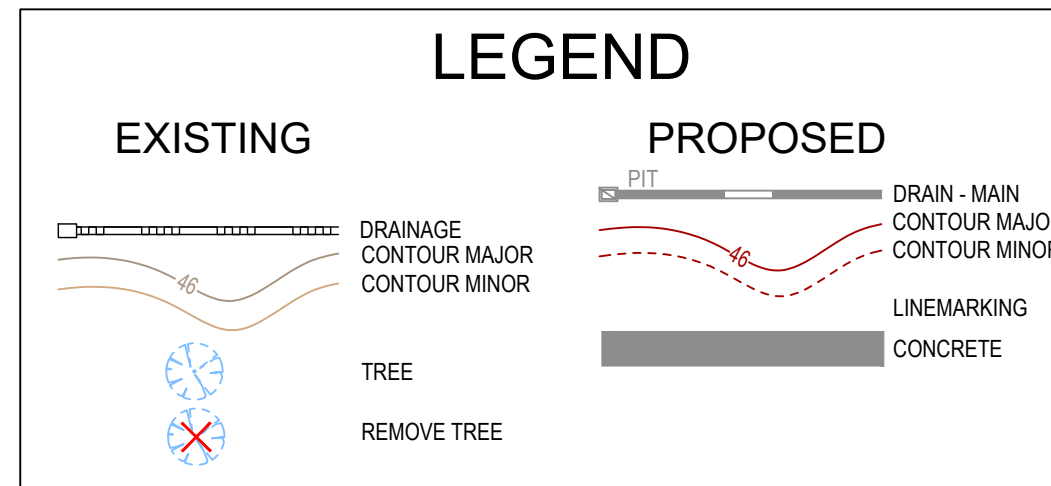


KERB H LONGITUDINAL SECTION

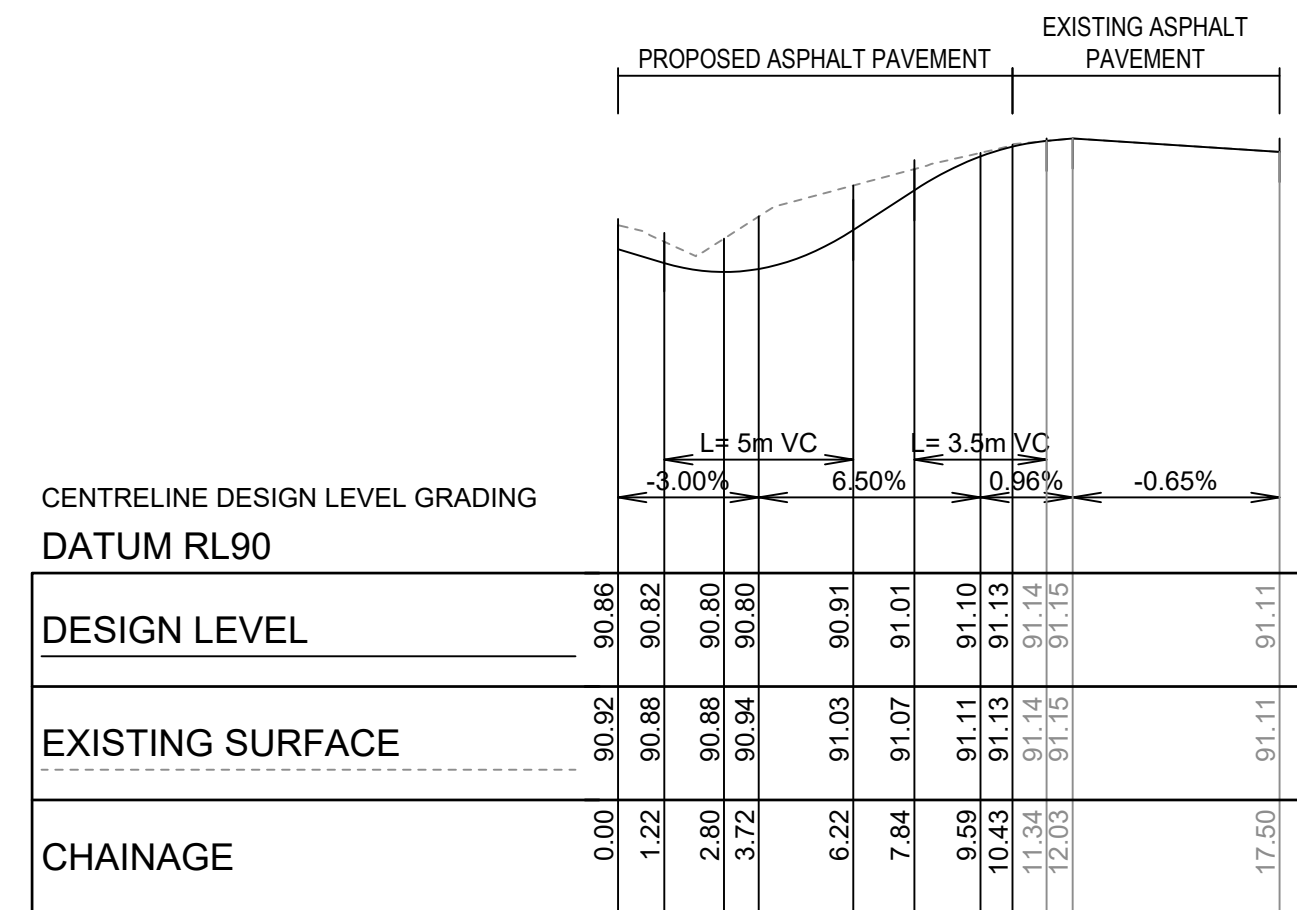
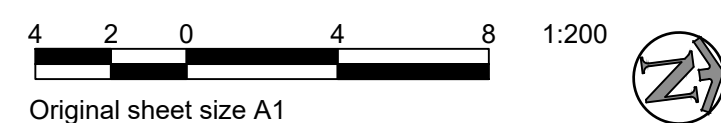


Kerb H Setout			
Setout Point	Chainage	Easting	Northing
H1	0.00	340380.12	5772267.09
H2	0.79	340379.74	5772266.42
H3	1.57	340379.01	5772266.22
H4	2.06	340378.52	5772266.28
H5	7.37	340373.25	5772266.93
H6	8.16	340372.51	5772266.73
H7	8.94	340372.14	5772266.06
H8	9.70	340372.04	5772265.31
H9	11.65	340371.80	5772263.38
H10	14.76	340372.02	5772260.30
H11	17.86	340373.39	5772257.53
H12	20.97	340375.71	5772255.48
H13	23.49	340378.04	5772254.58
H14	24.08	340378.62	5772254.47
H15	31.13	340385.61	5772253.49

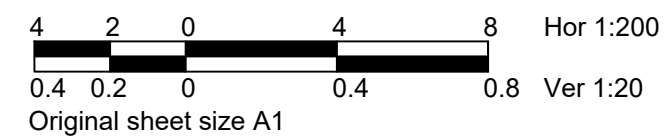
Kerb H Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
H1-H3	1	1.414	0.293	0.228
H5-H7	1	1.414	0.293	0.228
H9-H14	8	11.220	2.297	1.789



DETAIL PLAN



LAWTON RESERVE PRIMARY ACCESS ROAD
CENTRELINE LONGITUDINAL SECTION



Lawton Reserve Primary Access Road Centreline Setout		
Chainage	Easting	Northing
0.00	340367.61	5772252.85
2.80	340370.39	5772252.51
10.43	340377.97	5772251.57
17.50	340384.98	5772250.70

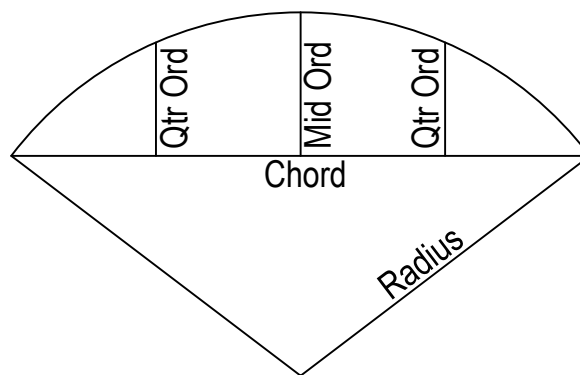
LEGEND

3 ASPECT LANTERN (200mm)	SIGN	EXISTING PEDESTAL	WATER METER	WATER VALVE	STORMWATER (EXISTING)
MAST ARM (OUTREACH AS INDICATED)	PARKING METER	NEW PEDESTAL	TAP	TELSTRA PILLAR	STORMWATER (PROPOSED)
PED. PUSH BUTTON & LANTERN	RUBBISH BIN	NEW JOINT USE POLE	ELECTRIC PIT	MAJOR TELSTRA PIT	SEWER
INTERNALLY ILLUMINATED SIGN	SIDE ENTRY PIT	UNITED ENERGY POLE	PERMANENT SURVEY MARK	MINOR TELSTRA PIT	WATER
EXISTING STREET LIGHTING LANTERN	GRATED PIT	DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER	SURVEY MARK OR STATION	GAS VALVE	GAS
PROPOSED STREET LIGHTING LANTERN	FENCE	SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER	TREE	SEWER PIT	TELSTRA
	TRAFFIC SIGNAL CONTROLLER	600mm DIA. CONDUIT JUNCTION PIT	WOODEN POST	FIRE HYDRANT	ELECTRICITY (UNDERGROUND)
	EXISTING DETECTOR LOOP	300mm DETECTOR PIT	STEEL POST	FIRE PLUG	ELECTRICITY (OVERHEAD)
					EXISTING KERB & CHANNEL
					PROPOSED KERB & CHANNEL
					EXISTING KERB
					PROPOSED KERB

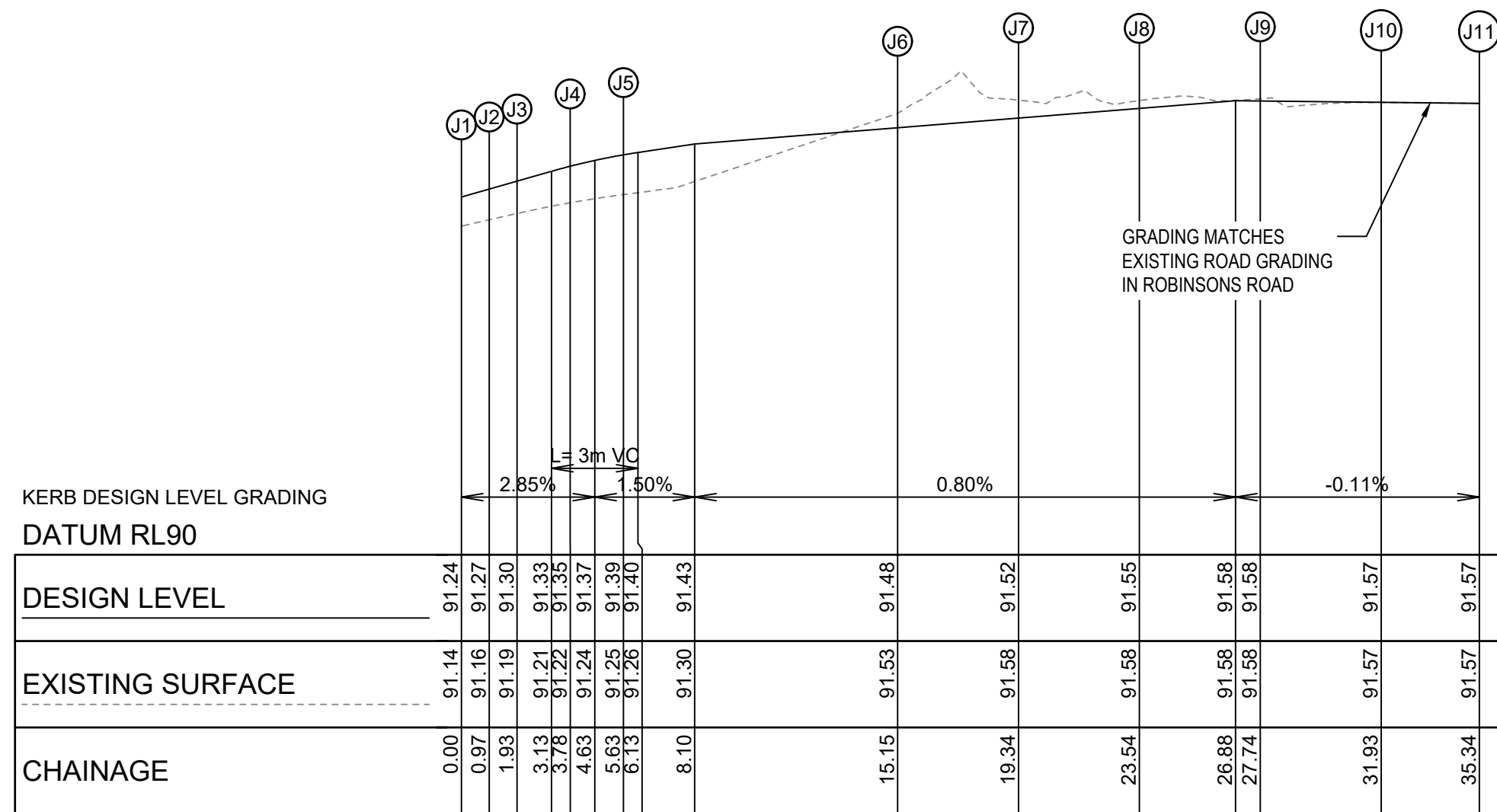


AMENDMENTS				INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION LAWTON RESERVE PRIMARY ACCESS AND KERB I DETAIL PLANS AND LONGITUDINAL SECTIONS		
DATE	BY	No.		FILE No.	DRAWN				
19-12-19	00	1	ORIGINAL ISSUE	25340 C6.dwg	TB (JCA)		COUNCIL APPROVAL MEETING No. / /	CONTRACT No.	SCALE AS SHOWN
18-06-20	01	2	SERVICE PROVING RESULTS ADDED						
03-09-20	02	3	LAWTON RESERVE FRONTAGE AMENDED						
18-10-22	03	4	CONSTRUCTION ISSUE						
		5					APPROVED BY Infrastructure Manager	DRAWING No. CWP4191/C604	Rev. No. 03
		6							
		7							
		8							
		9					DATE / /		
		10							
		11							
		12							

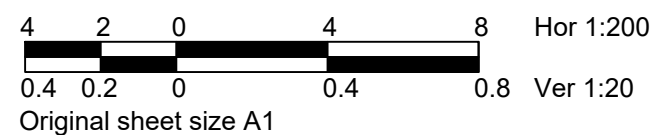
CURVE SETOUT DIAGRAM



NOTE:
ALL SETOUT TO LIP OF KERB

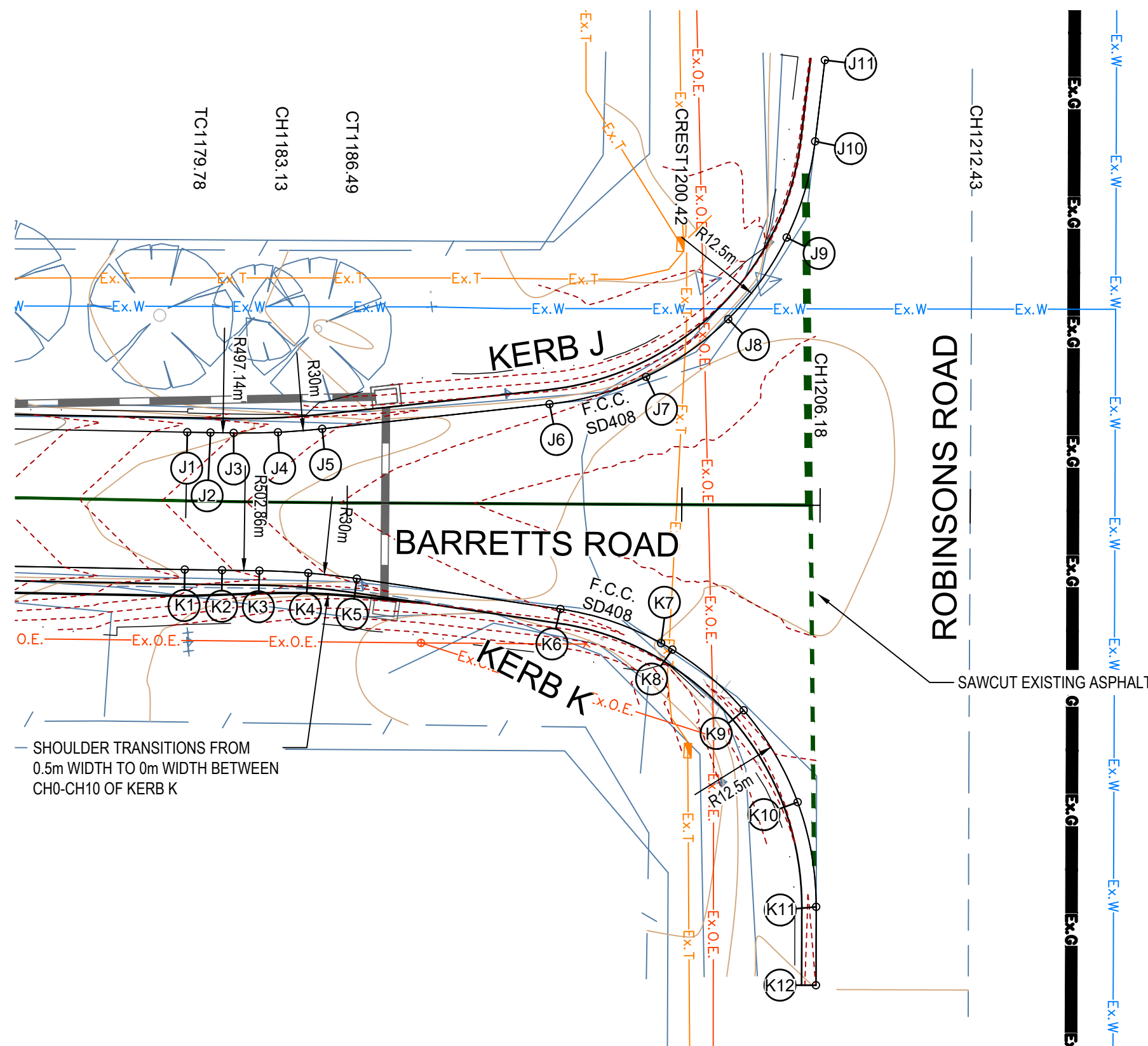


KERB J LONGITUDINAL SECTION

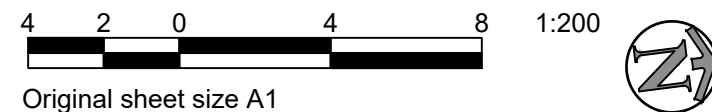


Kerb J Setout			
Setout Point	Chainage	Easting	Northing
J1	0.00	340424.43	5772715.86
J2	0.97	340424.57	5772716.82
J3	1.93	340424.70	5772717.77
J4	3.78	340424.91	5772719.61
J5	5.63	340425.00	5772721.45
J6	15.15	340425.18	5772730.97
J7	19.34	340424.55	5772735.10
J8	23.54	340422.61	5772738.80
J9	27.74	340419.55	5772741.65
J10	31.94	340415.72	5772743.33
J11	35.34	340412.42	5772744.16

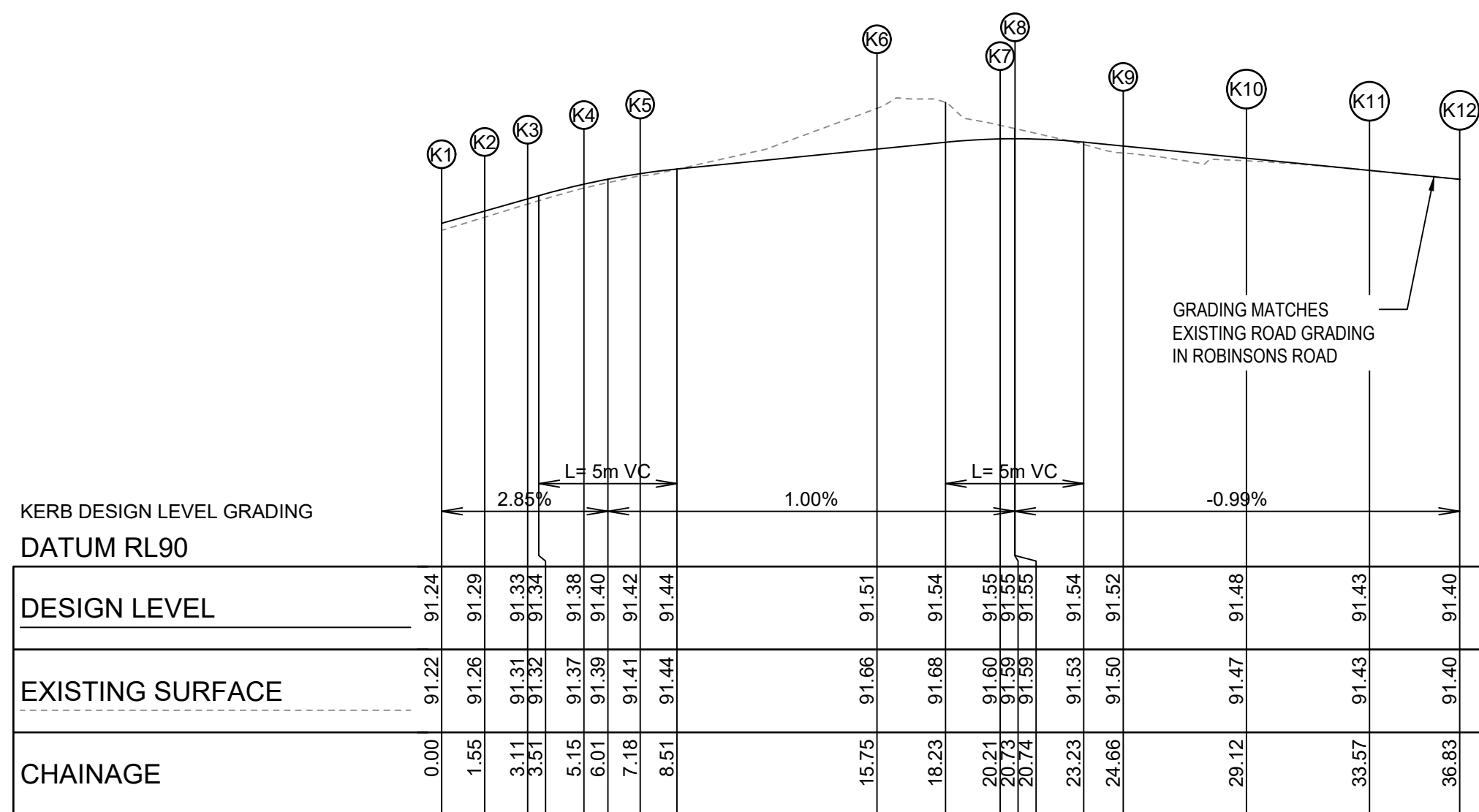
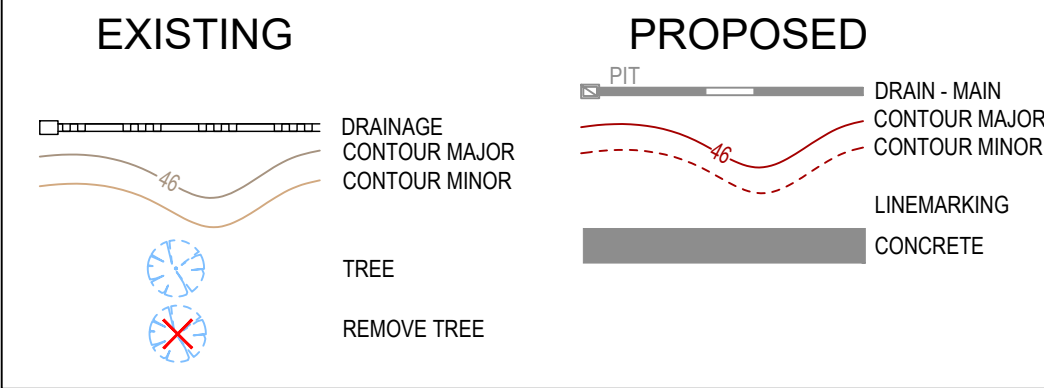
Kerb J Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
J1-J3	497.14	1.931	0.001	0.001
J3-J5	30	3.692	0.057	0.043
J6-J10	12.5	15.555	2.714	2.094



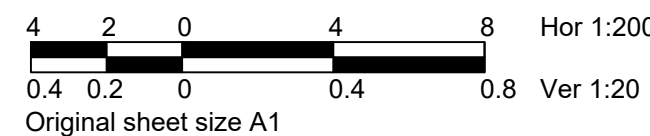
DETAIL PLAN



LEGEND



KERB K LONGITUDINAL SECTION

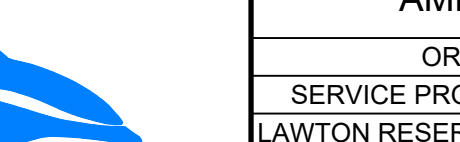
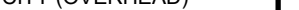


Kerb K Setout			
Setout Point	Chainage	Easting	Northing
K1	0.00	340430.09	5772715.03
K2	1.56	340430.31	5772716.57
K3	3.11	340430.53	5772718.11
K4	5.15	340430.88	5772720.12
K5	7.18	340431.37	5772722.09
K6	15.75	340433.69	5772730.34
K7	20.21	340435.64	5772734.32
K8	20.74	340435.96	5772734.75
K9	24.66	340438.84	5772737.38
K10	29.12	340442.92	5772739.13
K11	33.57	340447.34	5772739.34
K12	36.83	340450.58	5772739.92

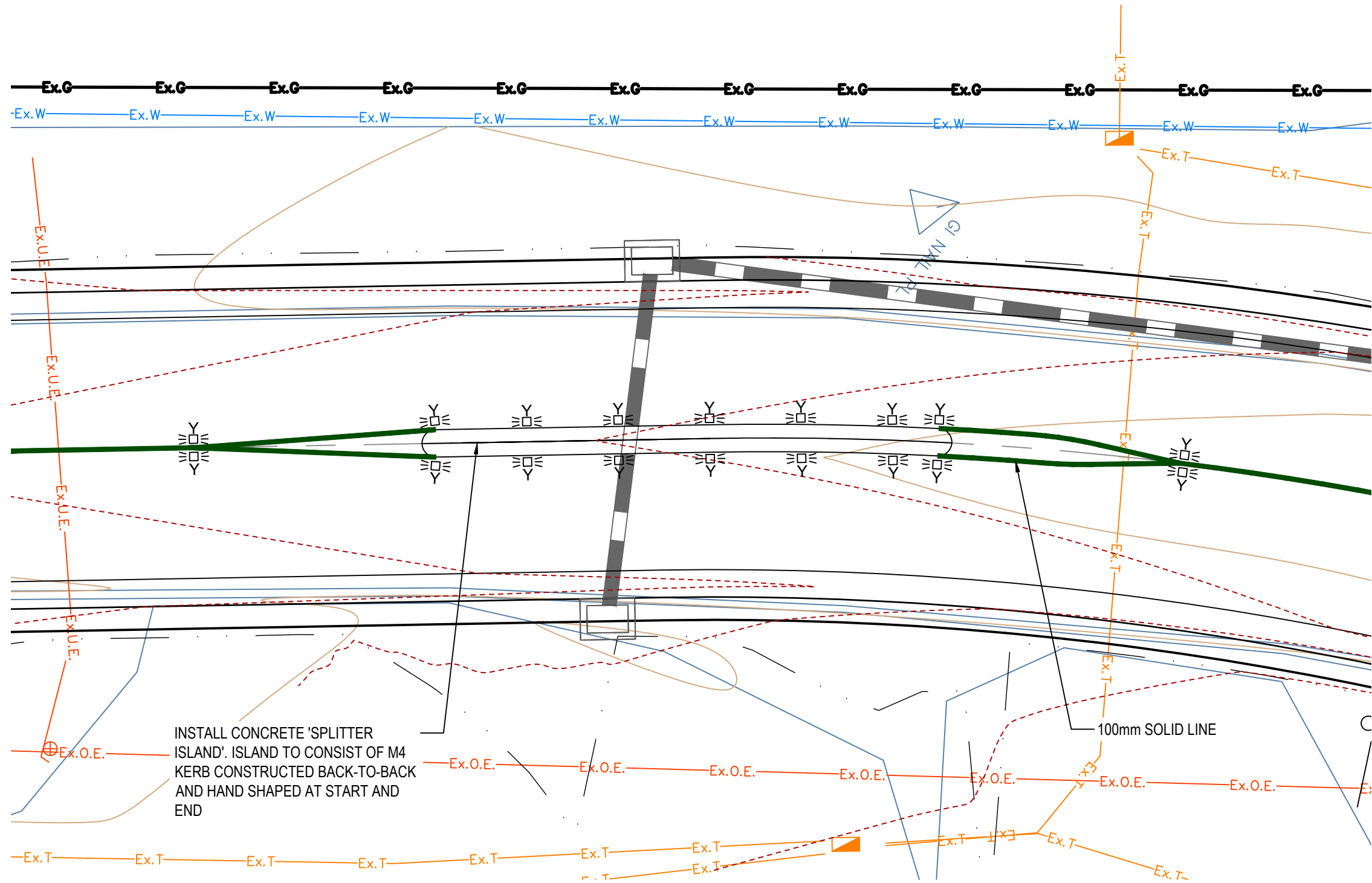
Kerb K Curve Setout				
Curve No.	Radius	Chord	Mid Ord	Qtr Ord
K1-K3	502.86	3.110	0.002	0.002
K3-K5	30	4.070	0.069	0.052
K6-K11	12.5	16.348	3.043	2.356

CONSTRUCTION ISSUE

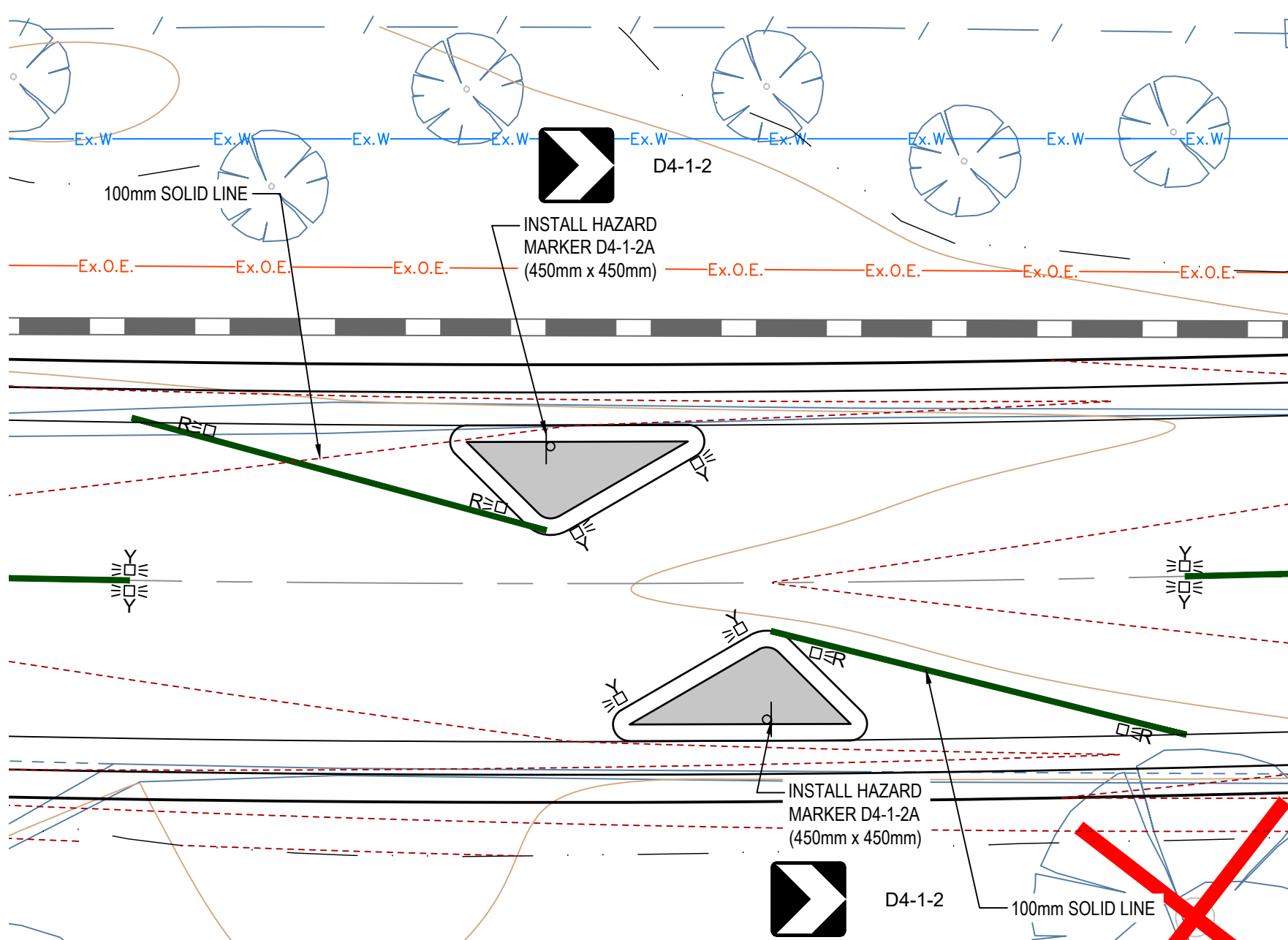
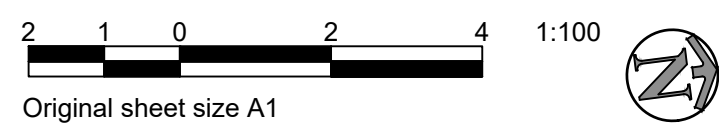
CONSTRUCTION
ISSUE

LEGEND											AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION KERB J AND K DETAIL PLANS AND LONGITUDINAL SECTIONS											
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE			STORMWATER (EXISTING)	19-12-19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C6.dwg			DRAWING No. CWP4191/C605		Rev. No. 03							
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR			STORMWATER (PROPOSED)	18-06-20	01	2															
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT			SEWER	03-09-20	02	3	DESIGN	TB (JCA)	DATUM AHD												
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT			GAS	18-10-22	03	4				COUNCIL APPROVAL MEETING No. / /											
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE			TELSTRA			5	SURVEY	JCA	CONTRACT No.	SCALE AS SHOWN											
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT			ELECTRICITY (UNDERGROUND)			6															
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		WOODEN POST		FIRE HYDRANT			ELECTRICITY (OVERHEAD)			7	DESIGN CHECKED	MD (JCA)													
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG			EXISTING KERB & CHANNEL			8															
												PROPOSED KERB & CHANNEL			9	APPROVED BY	C.W.C.													
											EXISTING KERB			10																
											PROPOSED KERB			11																
														12	DATE / /			APPROVED BY Infrastructure Manager	DATE / /											

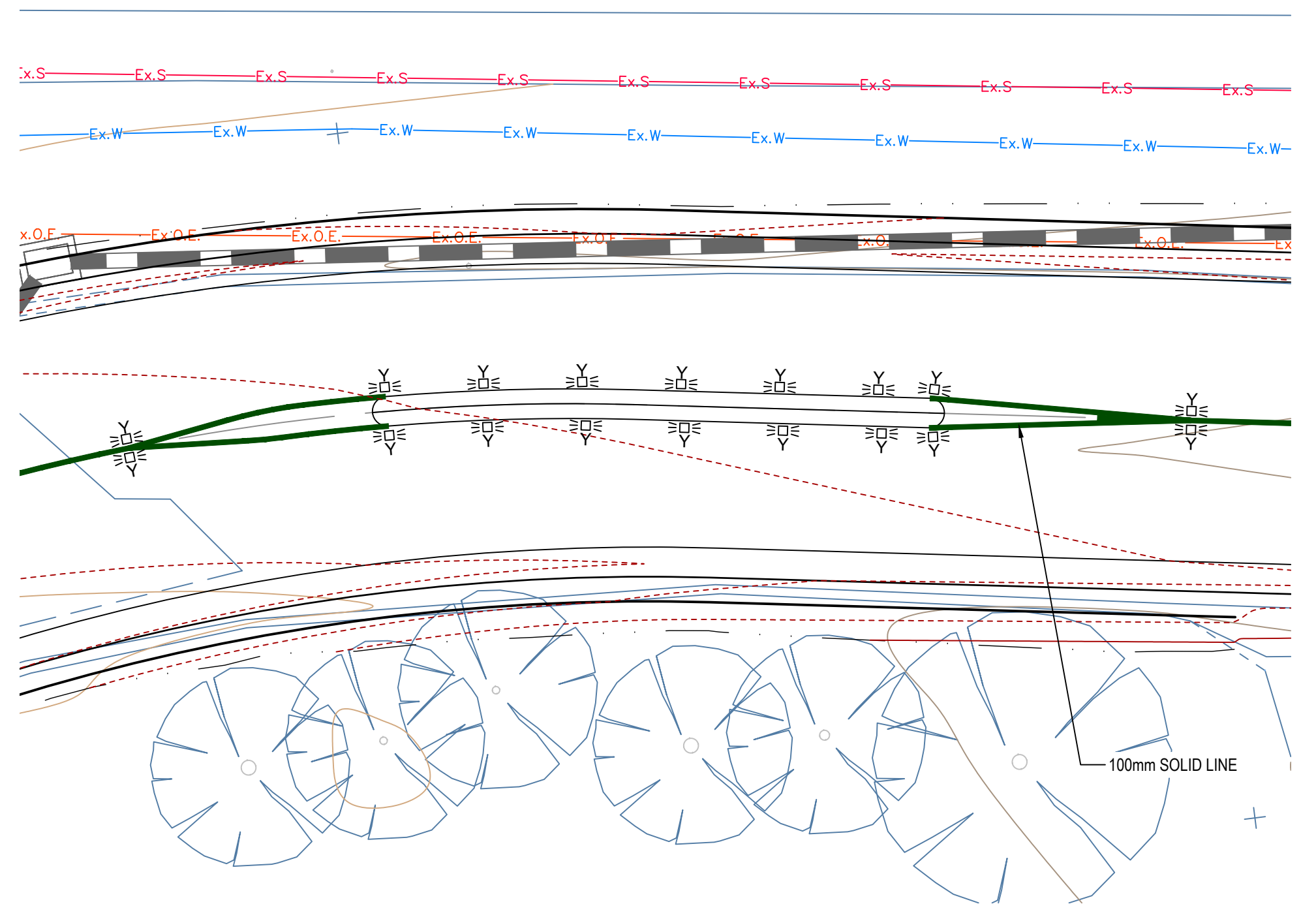




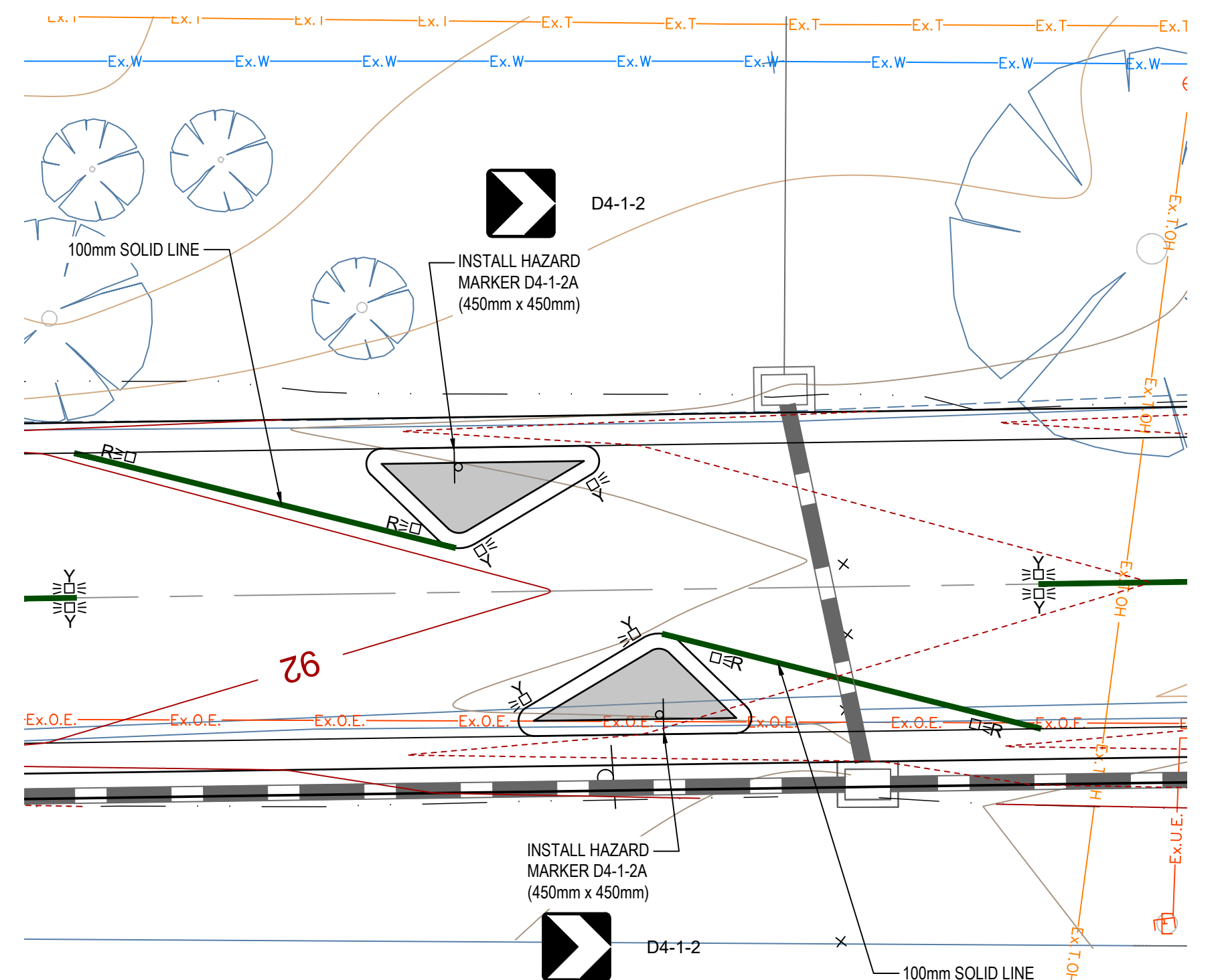
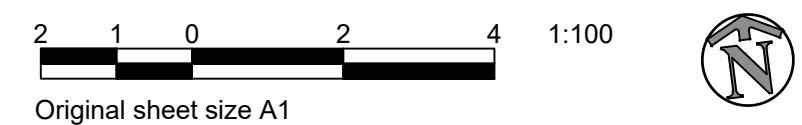
SLOW POINT 1 DETAIL PLAN



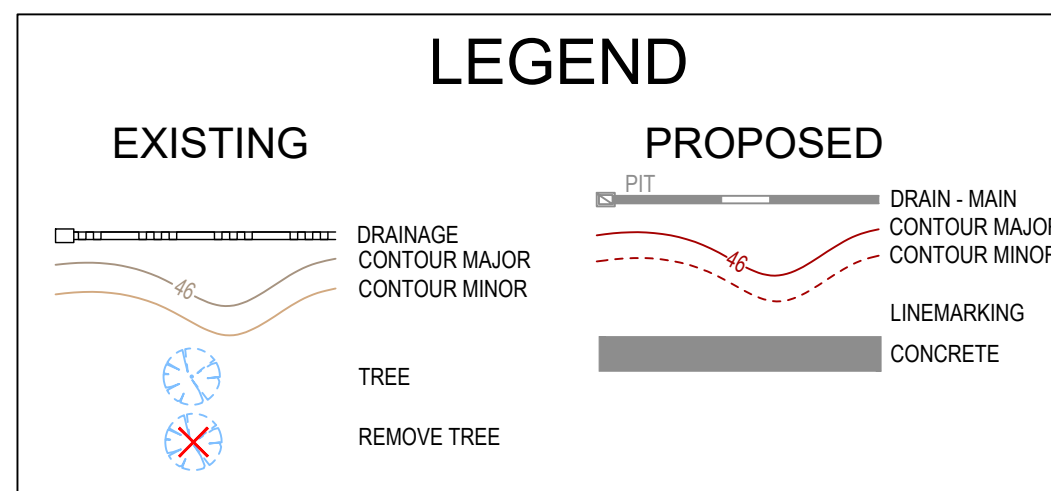
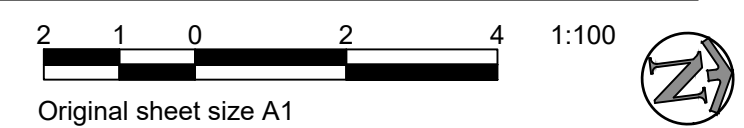
SLOW POINT 3 DETAIL PLAN



SLOW POINT 2 DETAIL PLAN



SLOW POINT 6 DETAIL PLAN

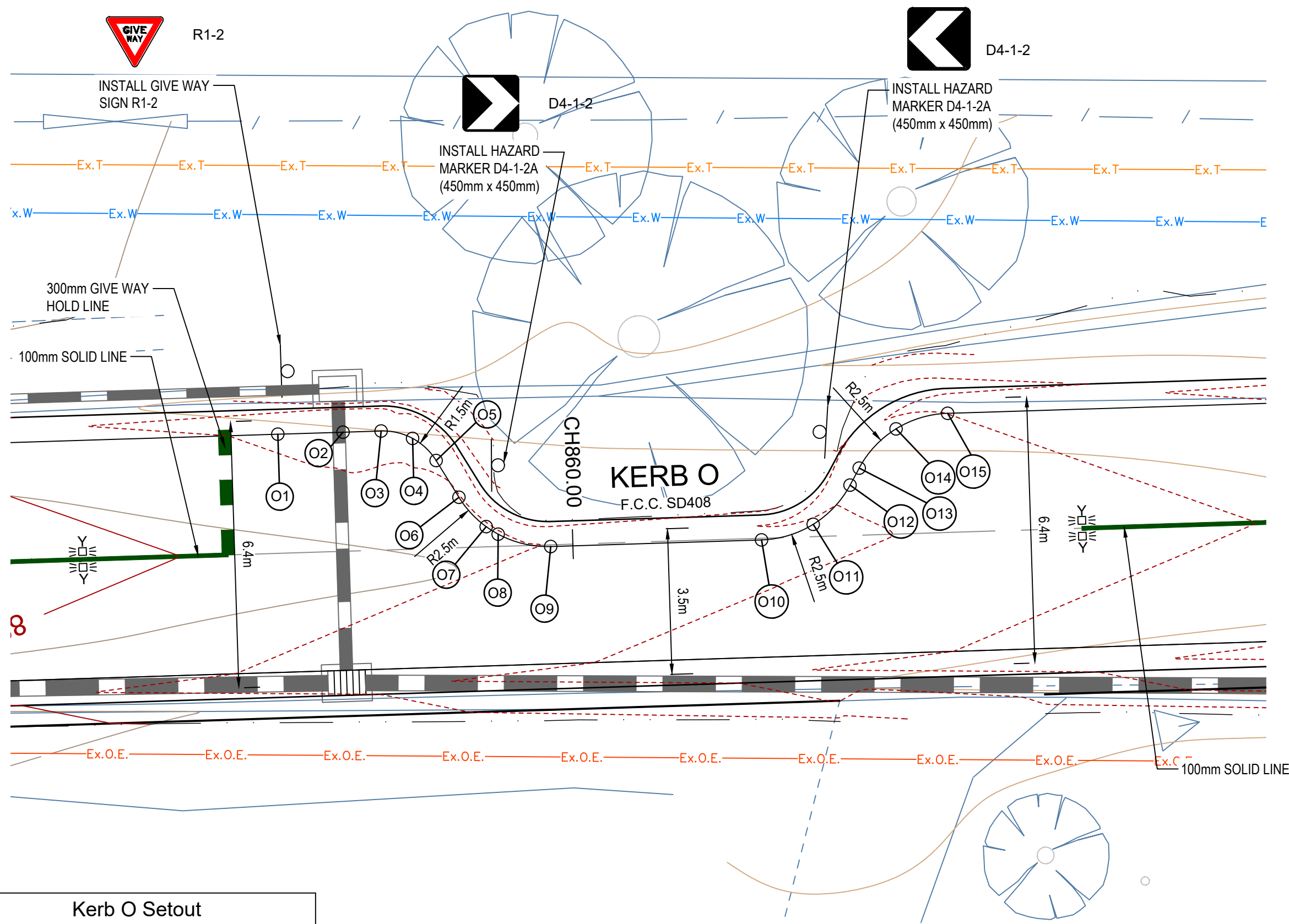


NOTE: DETAILING OF SLOW POINTS NOT FINALISED SUBJECT TO COMMUNITY CONSULTATION

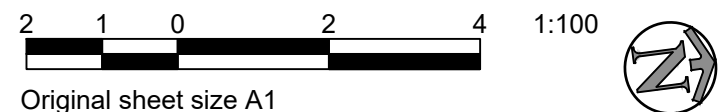
LEGEND									



AMENDMENTS				INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION SLOW POINTS 1-3 AND 6 DETAIL PLANS		
ORIGINAL ISSUE	19-12-19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C6.dwg			
SERVICE PROVING RESULTS ADDED	18-06-20	01	2							
LAWTON RESERVE FRONTAGE AMENDED	03-09-20	02	3	DESIGN	TB (JCA)	DATUM	AHD			
CONSTRUCTION ISSUE	18-10-22	03	4					COUNCIL APPROVAL		
			5	SURVEY	JCA	MEETING No.	/ /	SCALE	AS SHOWN	DRAWING No.
			6							
			7	DESIGN	MD (JCA)	CONTRACT No.		APPROVED BY	Infrastructure Manager	CWP4191/C606
			8	CHECKED						
			9	APPROVED BY	C.W.C.			DATE	/ /	03
			10							
			11							
			12	DATE	/ /					



KERB OUTSTAND DETAIL PLAN

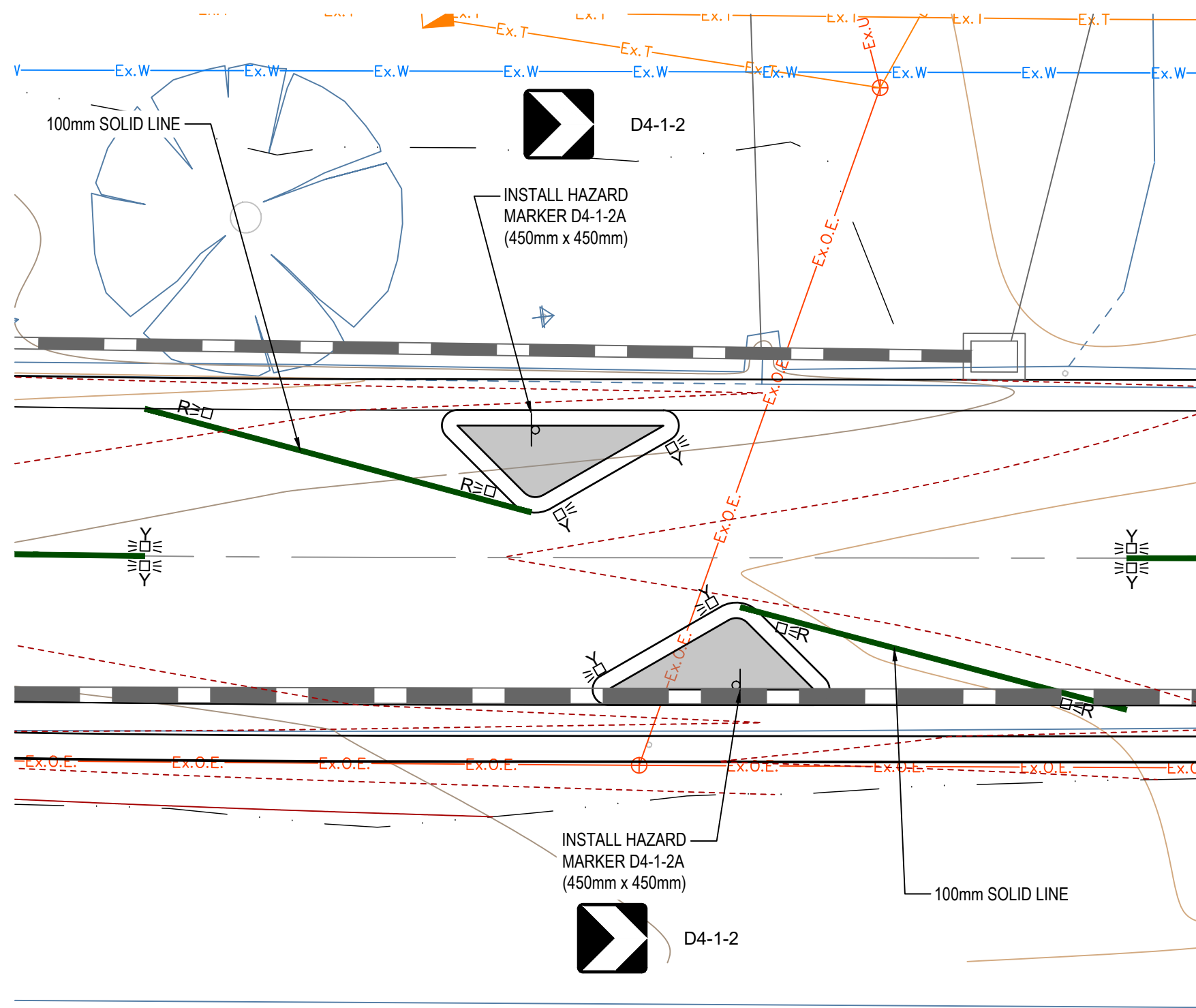
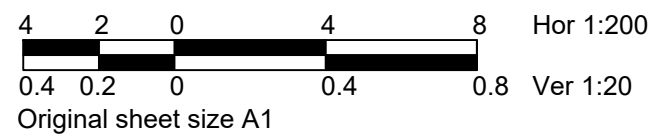


Setout Point	Chainage	Easting	Northing
O1	0.00	340381.89	5772391.81
O2	1.57	340382.04	5772393.37
O3	2.48	340382.13	5772394.28
O4	3.27	340382.40	5772395.01
O5	4.05	340383.00	5772395.50
O6	5.09	340383.94	5772395.93
O7	6.06	340384.73	5772396.49
O8	6.40	340384.94	5772396.75
O9	7.71	340385.40	5772397.97
O10	12.78	340385.88	5772403.01
O11	14.09	340385.67	5772404.29
O12	15.40	340384.84	5772405.29
O13	15.86	340384.47	5772405.55
O14	17.17	340383.64	5772406.55
O15	18.49	340383.43	5772407.83

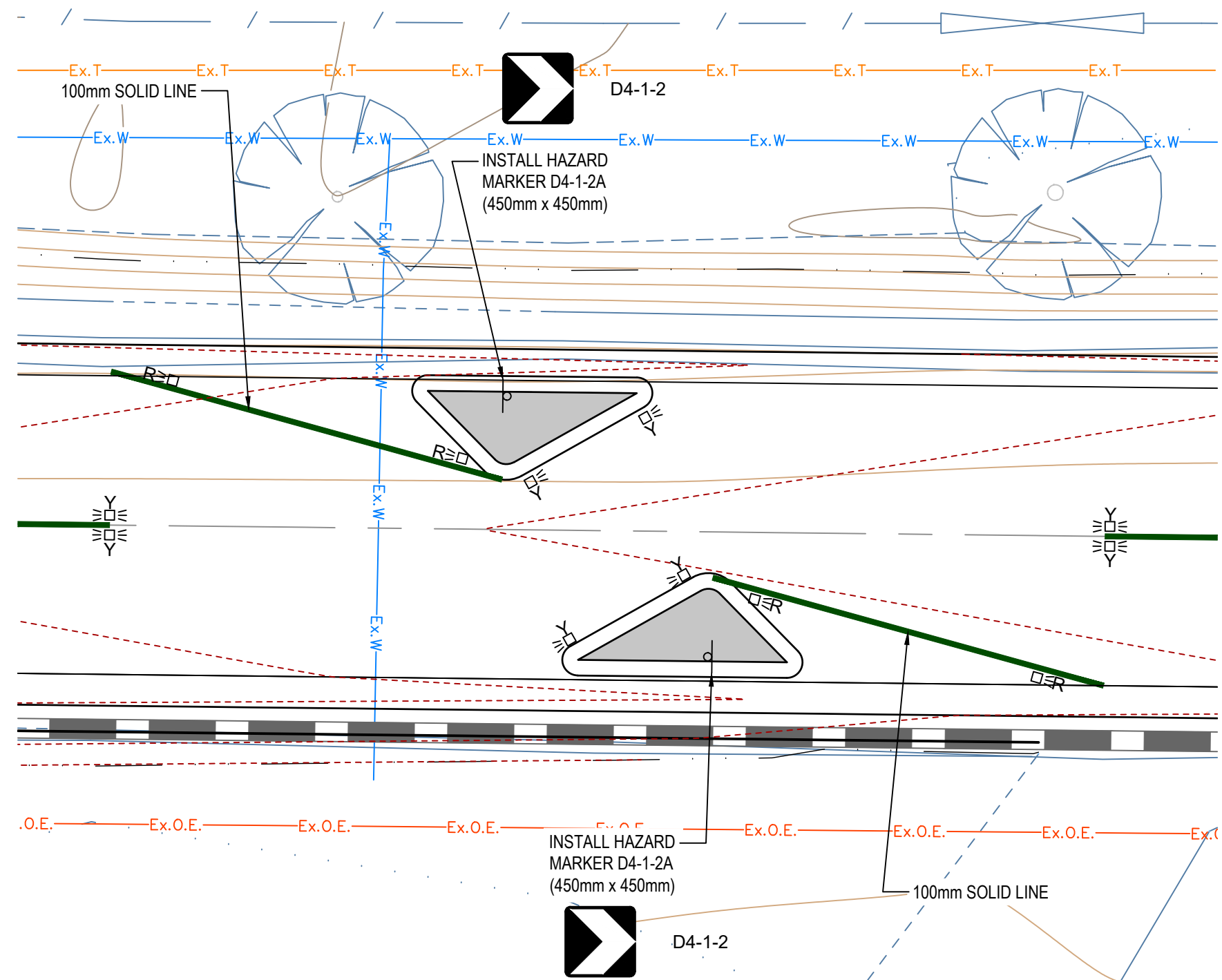
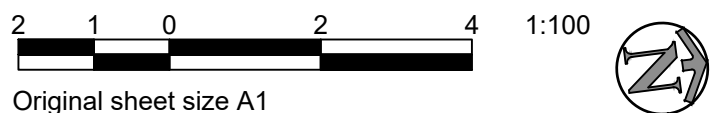
KERB DESIGN LEVEL GRADING
DATUM RL88

DESIGN LEVEL	88.89	88.87	88.88	88.89	88.89	88.90	88.91	88.90	88.84	88.82	88.79	88.77	88.74	88.70
EXISTING SURFACE	88.83	88.81	88.80	88.83	88.83	88.86	88.93	88.96	88.94	88.91	88.88	88.84	88.76	88.70
CHAINAGE	0.00	1.57	2.48	3.27	4.05	5.09	6.06	6.40	7.71	12.78	14.09	15.40	15.86	17.17

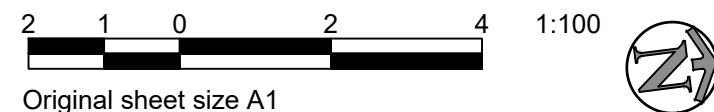
KERB O LONGITUDINAL SECTION



SLOW POINT 9 DETAIL PLAN



SLOW POINT 8 DETAIL PLAN



JCA Land Consultants
Surveying - Engineering - Town Planning
Suite 9, 303 Marondah Highway
Ringwood Victoria, Australia 3134
Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

WARNING
BEWARE - UNDERGROUND SERVICES
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS

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The Essential First Step

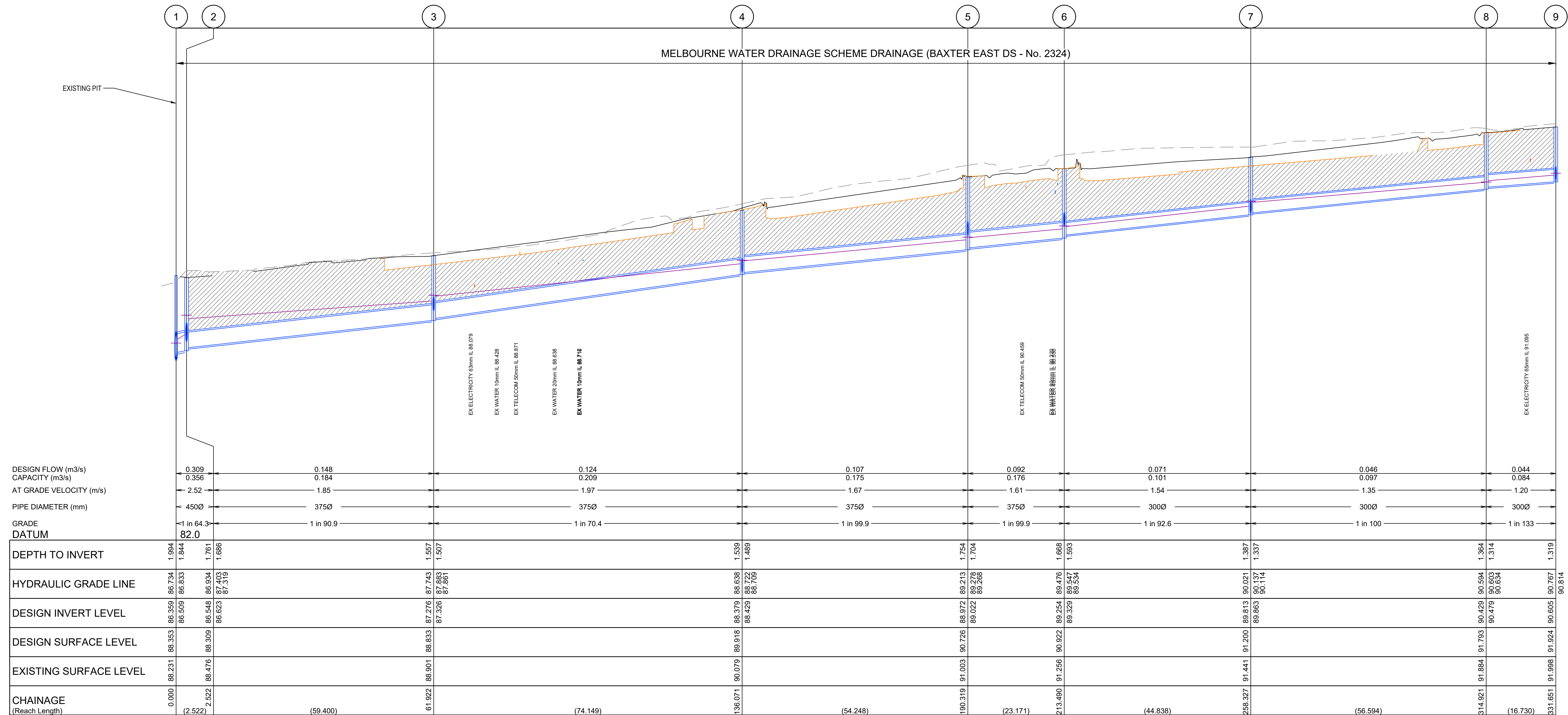
LEGEND	LEGEND	LEGEND	LEGEND	LEGEND
 MAST ARM (OUTREACH AS INDICATED) PED. PUSH BUTTON & LANTERN INTERNALLY ILLUMINATED SIGN EXISTING STREET LIGHTING LANTERN PROPOSED STREET LIGHTING LANTERN	 PARKING METER RUBBISH BIN SIDE ENTRY PIT GRATED PIT FENCE TRAFFIC SIGNAL CONTROLLER EXISTING DETECTOR LOOP	 NEW PEDESTAL NEW JOINT USE POLE UNITED ENERGY POLE DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER 600mm DIA. CONDUIT JUNCTION PIT 300mm DETECTOR PIT	 TAP ELECTRIC PIT PERMANENT SURVEY MARK SURVEY MARK OR STATION TREE WOODEN POST STEEL POST	 TELSTRA PILLAR MAJOR TELSTRA PIT MINOR TELSTRA PIT GAS VALVE SEWER PIT FIRE HYDRANT FIRE PLUG
 STORMWATER (PROPOSED) SEWER WATER GAS TELSTRA ELECTRICITY (UNDERGROUND) ELECTRICITY (OVERHEAD) EXISTING KERB & CHANNEL PROPOSED KERB & CHANNEL EXISTING KERB PROPOSED KERB				



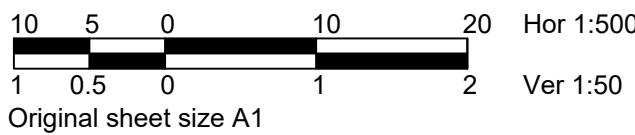
AMENDMENTS	DATE	BY	No.	INFRASTRUCTURE DEPARTMENT
ORIGINAL ISSUE	19-12-19	00	1	DRAWN TB (JCA)
SERVICE PROVING RESULTS ADDED	18-06-20	01	2	FILE No. 25340 C6.dwg
LAWTON RESERVE FRONTAGE AMENDED	03-09-20	02	3	DESIGN TB (JCA)
CONSTRUCTION ISSUE	18-10-22	03	4	DATUM AHD
			5	COUNCIL APPROVAL MEETING No. / /
			6	
			7	SURVEY JCA
			8	DESIGN CHECKED MD (JCA)
			9	CONTRACT No.
			10	APPROVED BY C.W.C.
			11	APPROVED BY Infrastructure Manager
			12	DATE / /

BARRETT'S ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION	
SLOW POINTS 8-9 AND KERB OUTSTAND DETAIL PLANS & LONGITUDINAL SECTION	
SCALE AS SHOWN	DRAWING No. CWP4191/C607
DATE / /	Rev. No. 03

CONSTRUCTION ISSUE



DRAINAGE LONGITUDINAL SECTION



CRUSHED ROCK BACKFILL

JCA Land Consultants

Surveying - Engineering - Town Planning

Suite 9, 303 Maroondah Highway
Ringwood Victoria, Australia 3134

Phone 03 9735 4888 Email jca@jcalc.com.au www.jcalc.com.au

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WARNING

BEWARE - UNDERGROUND SERVICES

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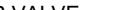
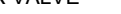
DIAL BEFORE YOU DIG

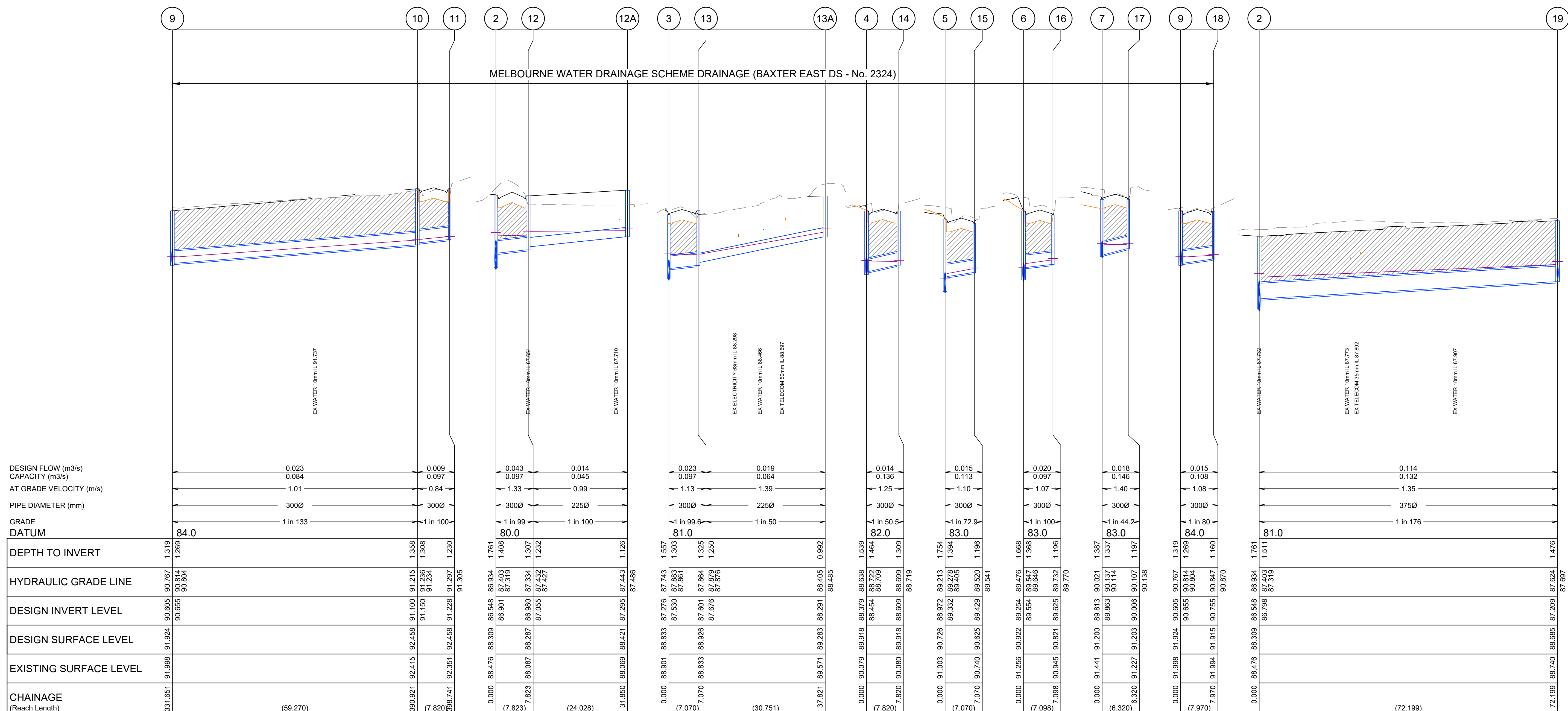
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The Essential First Step

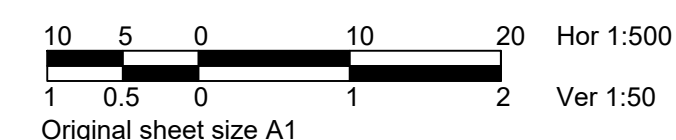
CONSTRUCTION ISSUE

CONSTRUCTION
ISSUE

LEGEND											AMENDMENTS		DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DRAINAGE LONGITUDINAL SECTION SHEET 1 OF 5		
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE			STORMWATER (EXISTING)	19-12-19	00	1	DRAWN	TB (JCA)	FILE No. 25340 C7.dwg			
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR			STORMWATER (PROPOSED)	18-06-20	01	2						
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT			WATER	03-09-20	02	3	DESIGN	TB (JCA)	DATUM AHD			
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT			GAS	18-10-22	03	4			COUNCIL APPROVAL MEETING No. / /			
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE			TELSTRA	25-10-22	04	5	SURVEY	JCA				
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT			ELECTRICITY (UNDERGROUND)		7		DESIGN CHECKED	MD (JCA)	CONTRACT No.			
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		FIRE HYDRANT					EXISTING KERB & CHANNEL		8				SCALE AS SHOWN			
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		WOODEN POST					EXISTING KERB		9		APPROVED BY	C.W.C.	DRAWING No.			
							STEEL POST					PROPOSED KERB		10				CWP4191/C701			
													11			APPROVED BY Infrastructure Manager		04			
													12		DATE / /		DATE / /				



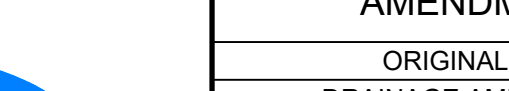
DRAINAGE LONGITUDINAL SECTION

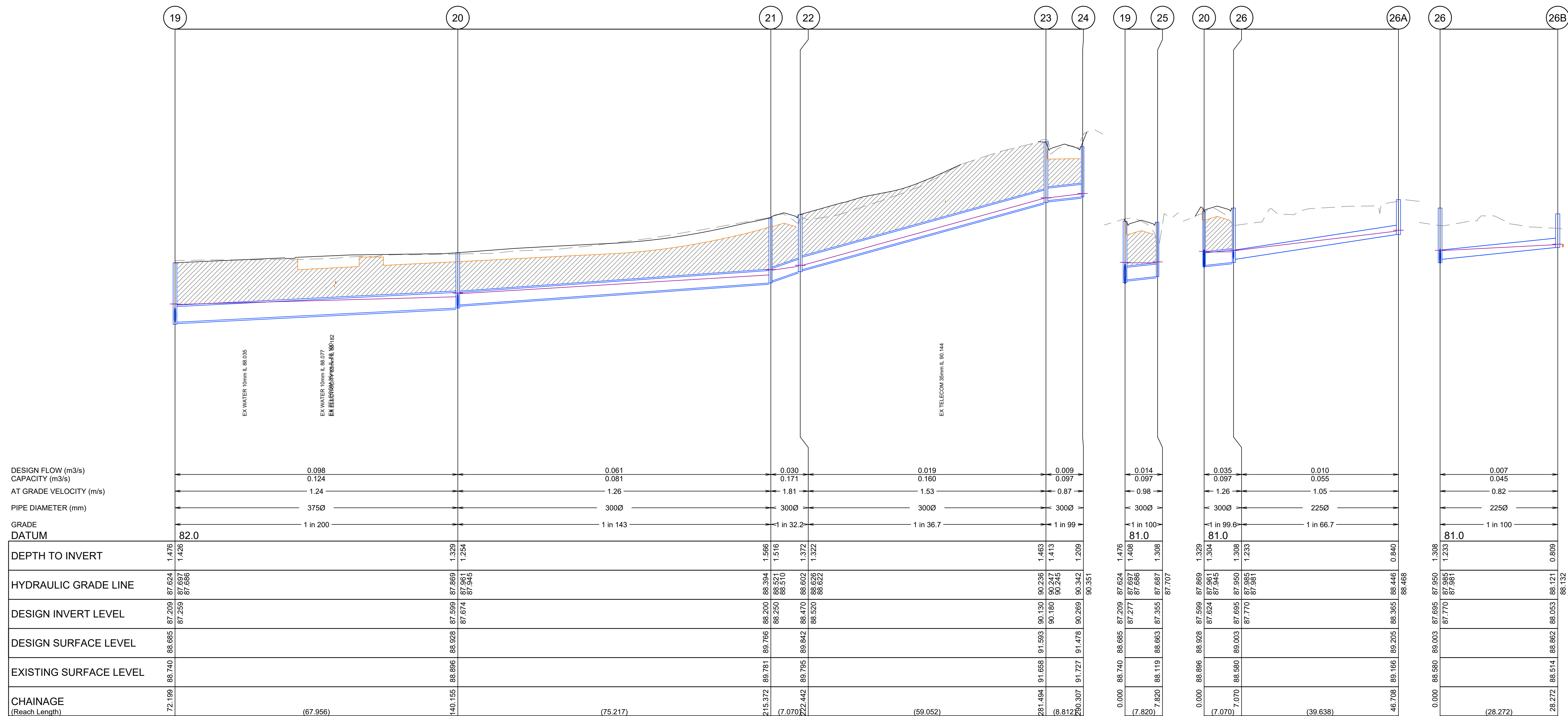
 CRUSHED ROCK BACKFILL

WARNING
BEWARE - UNDERGROUND SERVICES

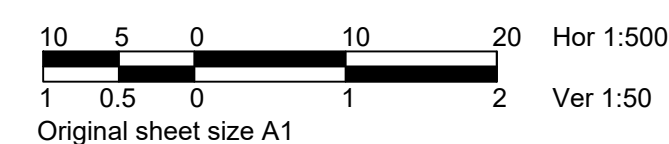
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



LEGEND											AMENDMENTS				DATE		BY		No.		INFRASTRUCTURE DEPARTMENT			BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DRAINAGE LONGITUDINAL SECTION SHEET 2 OF 5																				
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE			STORMWATER (EXISTING)		19-12-19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C7.dwg	SCALE		AS SHOWN					DRAWING No. CWP4191/C702		Rev. No. 04														
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR			STORMWATER (PROPOSED)		18-06-20	01	2																												
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT			WATER		03-09-20	02	3	DESIGN	TB (JCA)	DATUM	AHD																								
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT			GAS		18-10-22	03	4																												
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		GAS VALVE		TELSTRA		25-10-22	04	5	SURVEY	JCA	COUNCIL APPROVAL MEETING No. / /																										
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		ELECTRICITY (UNDERGROUND)		ELECTRICITY (OVERHEAD)					7	DESIGN	MD (JCA)	CONTRACT No.																									
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT JUNCTION PIT		FIRE HYDRANT		EXISTING KERB & CHANNEL		PROPOSED KERB & CHANNEL					8																												
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		WOODEN POST		EXISTING KERB		PROPOSED KERB					9	APPROVED BY	C.W.C.																										
							STEEL POST									10																												
							FIRE PLUG									11																												
																12																												



DRAINAGE LONGITUDINAL SECTION

 CRUSHED ROCK BACKFILL

WARNING
BEWARE - UNDERGROUND SERVICES

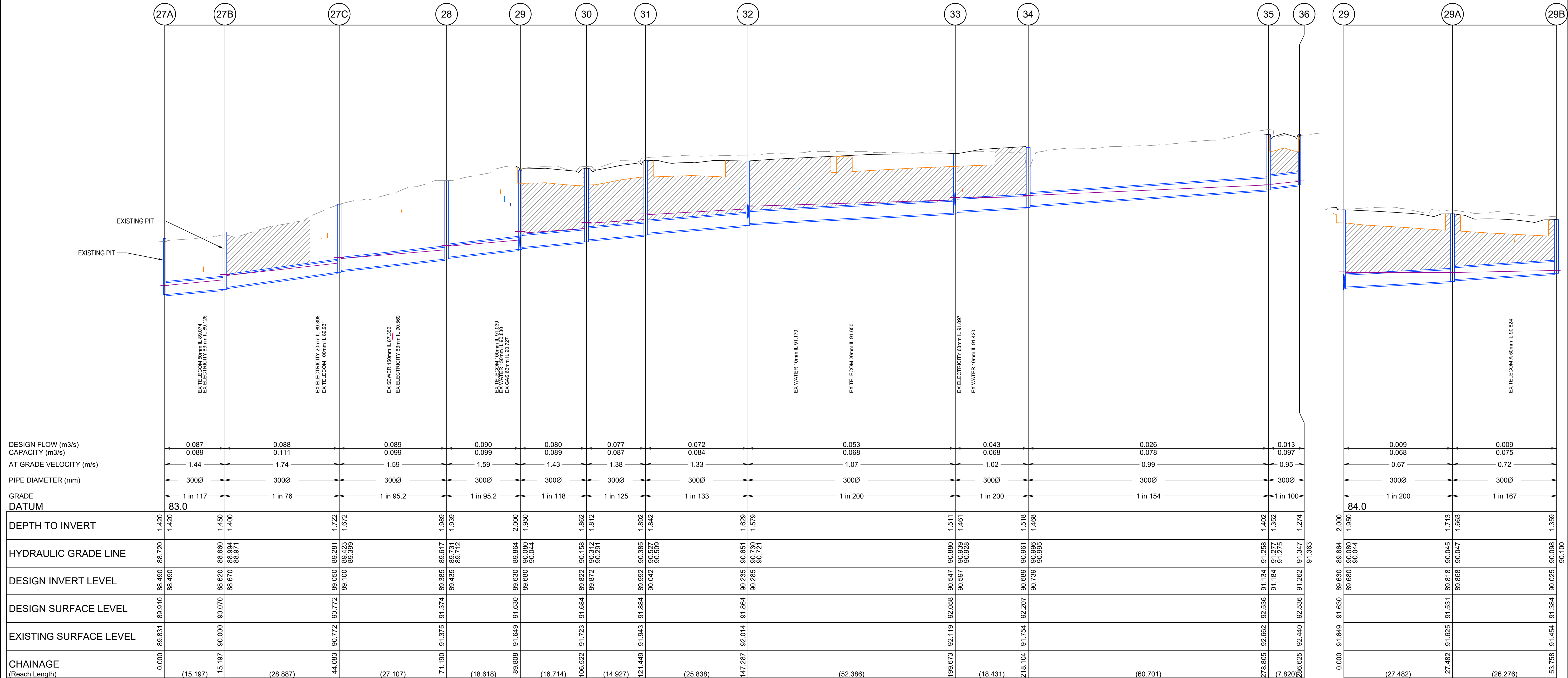
THE LOCATIONS OF EXISTING UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT DEPTH AND LOCATION SHOULD BE VERIFIED AND PROVEN ON SITE BY THE APPROPRIATE SERVICE PROVIDERS PRIOR TO ANY SITE EXCAVATION. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. CONTRACTOR TO TAKE PRECAUTIONS TO AVOID CONFLICTS



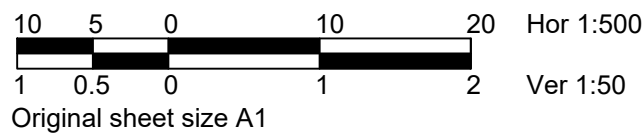
CONSTRUCTION ISSUE

CONSTRUCTION ISSUE

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DRAINAGE LONGITUDINAL SECTION



CRUSHED ROCK BACKFILL

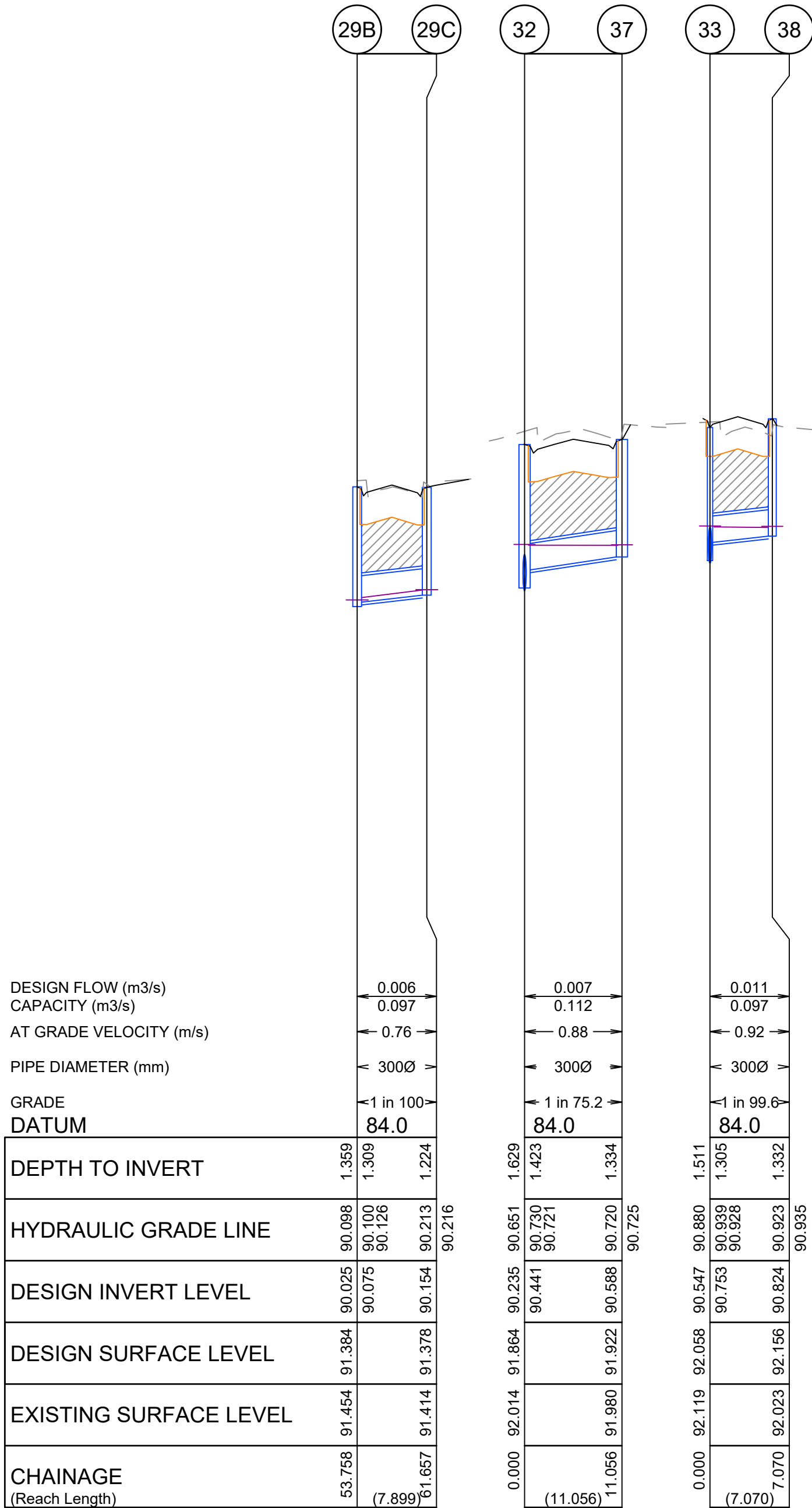
CONSTRUCTION ISSUE

CONSTRUCTION ISSUE

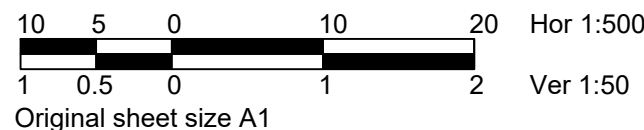
LEGEND											
	3 ASPECT LANTERN (200mm)		SIGN		EXISTING PEDESTAL		WATER METER		WATER VALVE		STORMWATER (EXISTING)
	MAST ARM (OUTREACH AS INDICATED)		PARKING METER		NEW PEDESTAL		TAP		TELSTRA PILLAR		STORMWATER (PROPOSED)
	PED. PUSH BUTTON & LANTERN		RUBBISH BIN		NEW JOINT USE POLE		ELECTRIC PIT		MAJOR TELSTRA PIT		SEWER
	INTERNALLY ILLUMINATED SIGN		SIDE ENTRY PIT		UNITED ENERGY POLE		PERMANENT SURVEY MARK		MINOR TELSTRA PIT		WATER
	EXISTING STREET LIGHTING LANTERN		GRATED PIT		DOUBLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		SURVEY MARK OR STATION		GAS VALVE		GAS
	PROPOSED STREET LIGHTING LANTERN		FENCE		SINGLE SIDED REFLECTIVE ROAD PAVEMENT MARKER		TREE		SEWER PIT		TELSTRA
			TRAFFIC SIGNAL CONTROLLER		600mm DIA. CONDUIT		WOODEN POST		FIRE HYDRANT		ELECTRICITY (UNDERGROUND)
			EXISTING DETECTOR LOOP		300mm DETECTOR PIT		STEEL POST		FIRE PLUG		ELECTRICITY (OVERHEAD)
											EXISTING KERB & CHANNEL
											PROPOSED KERB & CHANNEL
											EXISTING KERB
											PROPOSED KERB

AMENDMENTS				DATE	BY	No.	INFRASTRUCTURE DEPARTMENT			
ORIGINAL ISSUE				19-12-19	00	1	DRAWN TB (JCA)			
DRAINAGE AMENDMENTS				18-06-20	01	2	FILE No. 25340 C7.dwg			
LAWTON RESERVE FRONTAGE AMENDED				03-09-20	02	3	DESIGN TB (JCA)			
CONSTRUCTION ISSUE				18-10-22	03	4	COUNCIL APPROVAL MEETING No. / /			
CONSTRUCTION ISSUE (2)				25-10-22	04	5	SURVEY JCA			
						6				
						7	DESIGN CHECKED MD (JCA)			
						8				
						9	APPROVED BY C.W.C.			
						10				
						11				
						12	DATE / /			

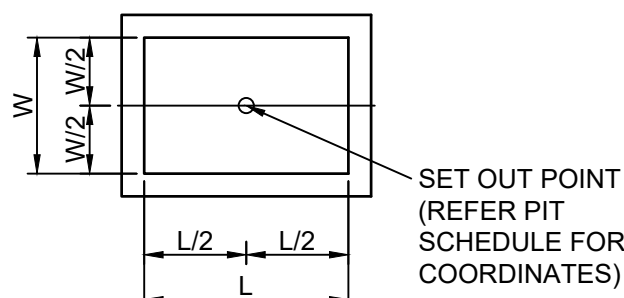
BARRETT'S ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DRAINAGE LONGITUDINAL SECTION SHEET 4 OF 5				SCALE AS SHOWN		DRAWING No. CWP4191/C704		Rev. No. 04	
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DRAINAGE LONGITUDINAL SECTION



CRUSHED ROCK BACKFILL



PIT SET OUT
NOT TO SCALE

NOTE: STEP IRONS TO BE PROVIDED
IN ALL PITS DEEPER THAN 0.9m

SEP - SIDE ENTRY PIT
DSEP - DOUBLE SIDE ENTRY PIT
GSEP - GRATED SIDE ENTRY PIT
JP - JUNCTION PIT
GP - GRATED PIT
ICP - INLET CATCH PIT

PIT SCHEDULE

Pit Name	Pit Type	Easting	Northing	Internal		Inlet		Outlet		Pit Setout RL	Depth	Step Irons Required	Relevant Standard Drawing	Remarks
				Width (mm)	Length (mm)	Dia (mm)	Inv Level (m)	Dia (mm)	Inv Level (m)					
1	Ex. GP	340398.219	5772451.249	600	900	450	86.51	600	86.36	88.35	1.99			Break into existing Junction Pit and connect new drainage
2	DSEP	340395.722	5772451.596	600	900	375	86.62	450	86.55	88.31	1.76	Y	F.C.C. SD211, I.D.M. SD450	Double side entry pit. Setout information sets out northern side entry pit (which contains inlet/outlet pipes). Side entry pits as per F.C.C. SD211. Arrangement of double-side entry pits to be generally as per I.D.M. SD450. Base to be corbelled out to 900mm x 900mm (refer standard drawing)
3	GSEP	340388.024	5772392.697	600	900	375	87.33	375	87.28	88.83	1.56	Y	I.D.M. SD475	
4	SEP	340379.925	5772318.992	900	600	375	88.43	375	88.38	89.92	1.54	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
5	SEP	340373.083	5772265.177	900	600	375	89.02	375	88.97	90.73	1.75	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
6	SEP	340370.252	5772242.179	600	900	300	89.33	375	89.25	90.92	1.67	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
7	GP	340363.951	5772197.787	900	600	300	89.86	300	89.81	91.20	1.39	Y	F.C.C. SD230	
8	SEP	340357.544	5772141.557	900	600	300	90.48	300	90.43	91.79	1.36	Y	F.C.C. SD211	
9	SEP	340355.665	5772124.932	900	600	300	90.66	300	90.61	91.92	1.32	Y	F.C.C. SD211	
10	SEP	340349.013	5772066.037	900	600	300	91.15	300	91.10	92.46	1.36	Y	F.C.C. SD211	
11	SEP	340341.242	5772066.915	600	900			300	91.23	92.46	1.23	Y	F.C.C. SD211	
12	DSEP	340387.948	5772452.474	600	900	225	87.06	300	86.98	88.29	1.31	Y	F.C.C. SD211	Double side entry pit. Setout information sets out northern side entry pit (which contains inlet/outlet pipes). Side entry pits as per F.C.C. SD211. Arrangement of double-side entry pits to be generally as per I.D.M. SD450. 1 x 100mm and 1 x 150mm Property Inlet Connection to pit.
12A	JP	340391.256	5772476.273	600	900			225	87.30	88.42	1.13	Y	F.C.C. SD215	
13	SEP	340380.986	5772393.372	600	900	225	87.68	300	87.60	88.93	1.33	Y	F.C.C. SD211	1 x 150mm Property Inlet Connection to pit
13A	JP	340378.051	5772362.760	600	900			225	88.29	89.28	0.99	Y	F.C.C. SD215	
14	SEP	340372.184	5772320.100	600	900			300	88.61	89.92	1.31	Y	F.C.C. SD211	1 x 100mm Property Inlet Connection to pit.
15	GSEP	340366.067	5772266.049	600	900			300	89.43	90.63	1.20	Y	I.D.M. SD475	
16	GSEP	340363.220	5772243.148	600	900			300	89.63	90.82	1.20	Y	I.D.M. SD475	1 x 100mm Property Inlet Connection to pit
17	GSEP	340357.679	5772198.566	600	900			300	90.01	91.20	1.20	Y	I.D.M. SD475	
18	SEP	340347.722	5772124.282	600	900			300	90.76	91.92	1.16	Y	F.C.C. SD211	1 x 100mm Property Inlet Connection to pit
19	SEP	340405.661	5772523.108	600	900	375	87.26	375	87.21	88.69	1.48	Y	F.C.C. SD211	
20	GSEP	340415.067	5772590.409	600	900	300	87.67	375	87.60	88.93	1.33	Y	I.D.M. SD475	
21	GSEP	340424.738	5772665.002	600	900	300	88.25	300	88.20	89.77	1.57	Y	I.D.M. SD475	
22	SEP	340417.689	5772665.547	900	600	300	88.52	300	88.47	89.84	1.37	Y	F.C.C. SD211	Reconnect existing property inlet to pit
23	SEP	340424.001	5772724.260	900	600	300	90.18	300	90.13	91.59	1.46	Y	F.C.C. SD211	
24	SEP	340432.733	5772723.070	600	900			300	90.27	91.48	1.21	Y	F.C.C. SD211	
25	SEP	340397.915	5772524.184	600	900			300	87.36	88.66	1.31	Y	F.C.C. SD211	
26	SEP	340408.077	5772591.470	600	900	225	87.77	300	87.70	89.00	1.31	Y	F.C.C. SD211	2 x 150mm Property Inlet Connections to pit
26A	JP	340413.634	5772630.717	600	900			225	88.37	89.21	0.84	N	F.C.C. SD215	
26B	JP	340403.837	5772563.517	600	900			225	88.05	88.86	0.81	N	F.C.C. SD215	
27														NOT IN USE
27A	Ex. SEP	340058.37	5772144.078			300	88.49			89.91	1.42			Remove existing 225mm pipe and connect new 300mm pipe. Make good pit.
27B	Ex. SEP	340056.33	5772129.019			300	88.67	300	88.62	90.07	1.45			Remove existing 225mm pipe and connect new 300mm pipes. Make good pit.
27C	JP	340043.830	5772102.978	600	900	300	89.10	300	89.05	90.77	1.72	Y	F.C.C. SD215	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
28	JP	340040.442	5772076.084	600	900	300	89.44	300	89.39	91.37	1.99	Y	F.C.C. SD215	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
29	GSEP	340042.640	5772057.596	600	900	300	89.68	300	89.63	91.63	2.00	Y	I.D.M. SD475	
29A	JP	340027.112	5772034.922	600	900	300	89.87	300	89.82	91.53	1.71	Y	F.C.C. SD215	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
29B	SEP	340020.385	5772009.521	600	900	300	90.08	300	90.03	91.38	1.36	Y	F.C.C. SD211	
29C	SEP	340028.038	5772007.564	600	900			300	90.15	91.38	1.22	Y	F.C.C. SD211	
30	SEP	340059.352	5772057.837	600	900	300	89.87	300	89.82	91.68	1.86	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
31	SEP	340069.562	5772068.726	600	900	300	90.04	300	89.99	91.88	1.89	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
32	SEP	340095.264	5772066.085	600	900	300	90.29	300	90.24	91.86	1.63	Y	F.C.C. SD211	Base to be corbelled out to 900mm x 900mm (refer standard drawing)
33	GSEP	340146.899	5772057.243	600	900	300	90.60	300	90.55	92.06	1.51	Y	I.D.M. SD475	
34	ICP	340165.218	5772055.211	600	900	300	90.74	300	90.69	92.21	1.52	Y	I.D.M. SD460	Install Inlet Catch Pit in location of existing table drain outlet from dam. Regrade base of table drain to match inlet of pit.
35	SEP	340225.412	5772047.388	600	900	300	91.18	300	91.13	92.54	1.40	Y	F.C.C. SD211	
36	SEP	340224.682	5772039.602	600	900			300	91.26	92.54	1.27	Y	F.C.C. SD211	
37	SEP	340101.777	5772057.150	600	900			300	90.59	91.92	1.33	Y	F.C.C. SD211	
38	SEP	340145.805	5772050.258	600	900			300	90.82	92.16	1.33	Y	F.C.C. SD211	

CONSTRUCTION ISSUE

CONSTRUCTION
ISSUE

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WARNING

BEWARE - UNDERGROUND SERVICES

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AMENDMENTS				INFRASTRUCTURE DEPARTMENT				BARRETTS ROAD, LANGWARRIN SOUTH ROAD RECONSTRUCTION DRAINAGE LONGITUDINAL SECTION SHEET 5 OF 5 AND PIT SCHEDULE		
DATE	BY	No.								
19-12-19	00	1	DRAWN	TB (JCA)	FILE No.	25340 C7.dwg		SCALE	AS SHOWN	DRAWING No.
18-06-20	01	2	DESIGN	TB (JCA)	DATUM	AHD				
03-09-20	02	3			COUNCIL APPROVAL	MEETING No. / /				CWP4191/C705
18-10-22	03	4			CONTRACT No.					
25-10-22	04	5	SURVEY	JCA	APPROVED BY	Infrastructure Manager				94
	06	6								
	07	7	DESIGN CHECKED	MD (JCA)						
	08	8	APPROVED BY	C.W.C.						
	09	9								
	10	10								
	11	11								
	12	12	DATE	/ /						