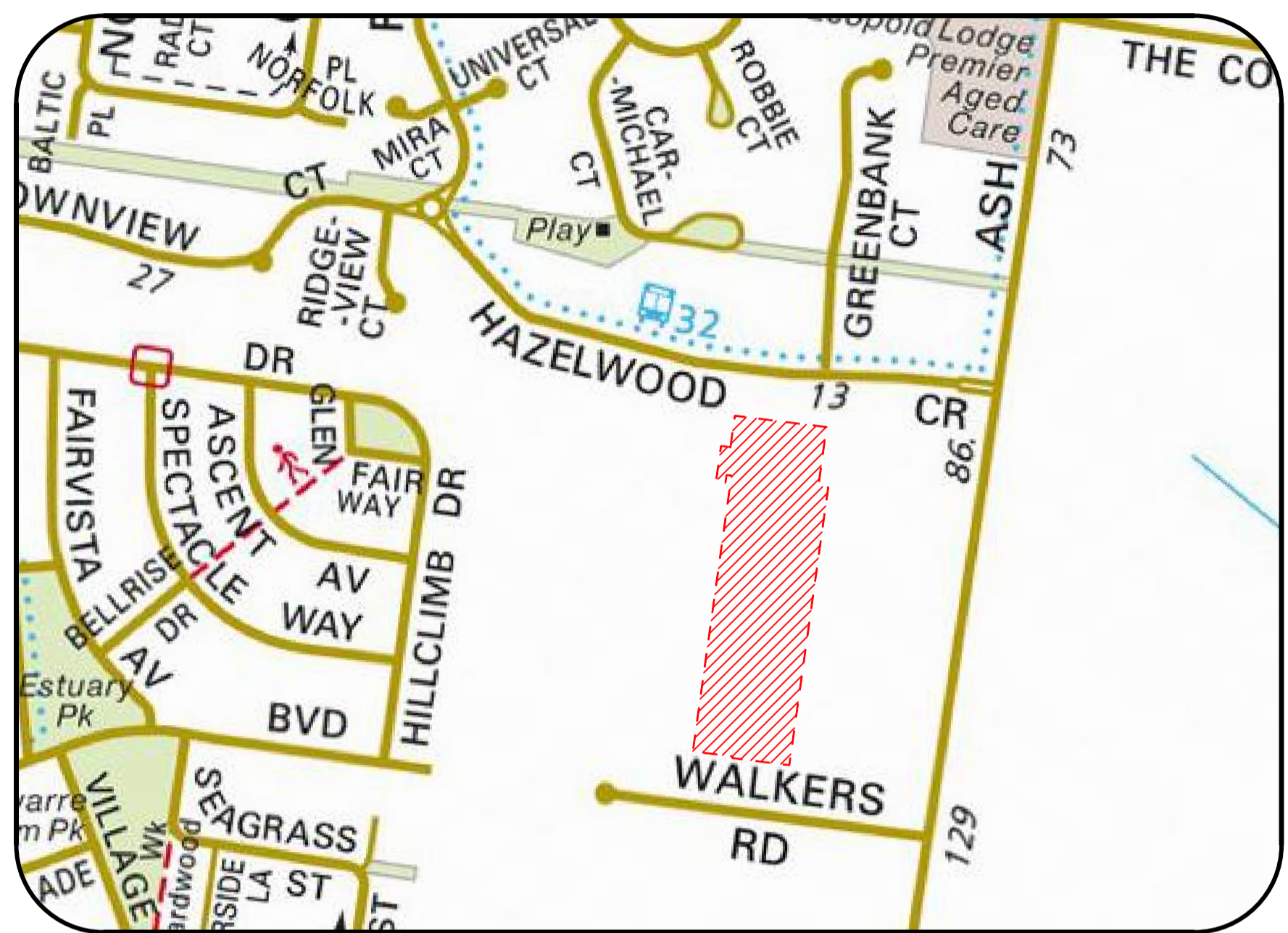


# ESTUARY II - STAGE 03

## ROAD AND DRAINAGE PLAN

### ASH ROAD, LEOPOLD



#### LEGEND

	EXISTING SHRUBS / TREES		PROPOSED SEWER AND MANHOLE
	SHRUBS / TREES TO BE REMOVED		EXISTING SEWER & MANHOLE
	PROPOSED TREES		PROPOSED FUTURE SEWER
	SIGN		PROPOSED WATER MAIN
	TELCO PILLAR		EXISTING WATER MAIN, FIRE PLUG AND VALVE
	TELCO PITS		PROPOSED FUTURE WATER
	ELECTRICITY LIGHT & POLE		PROPOSED ELECTRICITY MAIN
	PROPOSED KERB & CHANNEL		EXISTING ELECTRICITY MAIN & PIT
	EXISTING KERB & CHANNEL		PROPOSED FUTURE ELECTRICITY
	PROPOSED DRAIN / PIT / I.S.		PROPOSED GAS MAIN
	EXISTING DRAIN / PIT		EXISTING GAS MAIN
	PROPOSED AG DRAIN		PROPOSED FUTURE GAS
	PROPOSED HOUSE DRAIN / EASEMENT CONNECTION		PROPOSED TELECO MAIN
	EXISTING DRAIN / PIT		EXISTING TELECO CABLE
	FENCE LINE		PROPOSED FUTURE TELECO
	CARRIAGEWAY EASEMENT		PROPOSED CATCH DRAIN
	INVERT (DESIGN   EXISTING)		PROPOSED AG DRAIN
	EDGE OF SEAL / EDGE OF BITUMEN (DESIGN   EXISTING)		DESIGN SURFACE
	TOP OF BANK (DESIGN   EXISTING)		NATURAL SURFACE
	BOTTOM OF BANK		FILL ABOVE 300mm ALLOWING FOR 200mm STRIPPING
	PROPOSED TITLE BOUNDARY & SITE TITLE BOUNDARY		PROPOSED SEALED PAVEMENT
	PROPOSED FUTURE TITLE BOUNDARY		PROPOSED CRUSHED ROCK
	PREVIOUS STAGE TITLE BOUNDARY		PROPOSED CONCRETE FOOTPATH / DRIVEWAY
	PROPOSED OR EXISTING EASEMENT		PROPOSED ASPHALT FOOTPATH
	HOUSE		PROPOSED ALTERNATE PAVEMENT
	PROPOSED GAS & WATER CONDUIT		PROPOSED KERB
	OVERLAND 1% AEP STORMWATER FLOWPATH		PROPOSED NATURESTRIP / LANDSCAPING
	UNDERGROUND DRAINAGE CATCHMENT BOUNDARY		PROPOSED LOT EARTHWORKS NO TOPSOIL
	DIMENSION (IN METRES UNLESS STATED OTHERWISE)		PROPOSED OTHER
	LEADER / ARROW		PROPOSED ROCK BEACHING
	ES 101.95 EXISTING NATURAL SURFACE LEVEL		PROPOSED STAGE BOUNDARY
	FS 101.95 FINISHED SURFACE LEVEL		*PROPOSED RESERVE FENCING, REFER LANDSCAPE PLANS*
	TK 101.95 PROPOSED BACK OF KERB		PROPOSED BOLLARDS
	DIRECTION OF LOT GRADING		
	DIRECTION OF BASIN GRADING		
	PROPOSED FLAT TOP SPEED HUMPS		
	PERMANENT SURVEY MARK		
	SURVEY STATION		

#### AS-CONSTRUCTED SIGNATURES

	31/10/24
SIGN TOMKINSON GROUP	DATE
10/6-8 BOSTON RD, TORQUAY 3228	
	31/10/24
SIGN SIDNEY JENSTER	DATE
DRAPER'S CIVIL CONTRACTING PTY LTD	
54-56 LEATHER ST, BREAKWATER VIC 3219	

#### DRAWING LIST

DRAWING No.	TITLE	REV
A4041D.03-RD000	LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN	AC
A4041D.03-RD001	EXISTING CONDITIONS	AC
A4041D.03-RD100	PLAN OF SUBDIVISIONS (1 OF 3)	AC
A4041D.03-RD101	PLAN OF SUBDIVISIONS (2 OF 3)	AC
A4041D.03-RD102	PLAN OF SUBDIVISIONS (3 OF 3)	AC
A4041D.03-RD200	LAYOUT PLAN	AC
A4041D.03-RD300	SIGNAGE & LINEMARKING PLAN	AC
A4041D.03-RD400	PAVEMENT PLAN	AC
A4041D.03-RD500	TYPICAL SECTIONS & TYPICAL DETAILS	AC
A4041D.03-RD600	ROAD LONGITUDINAL SECTIONS ZALE STREET	AC
A4041D.03-RD601	ROAD CROSS SECTIONS SEDNA STREET (1 OF 2)	AC
A4041D.03-RD602	ROAD CROSS SECTIONS SEDNA STREET (2 OF 2)	AC
A4041D.03-RD610	ROAD LONGITUDINAL SECTIONS DELMARE DRIVE	AC
A4041D.03-RD611	ROAD CROSS SECTIONS DELMARE DRIVE	AC
A4041D.03-RD700	INTERSECTION DETAILS	AC
A4041D.03-RD800	DRAINAGE LONGITUDINAL SECTIONS	AC
A4041D.03-RD801	DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE	AC
A4041D.03-RD900	RETAINING WALL LAYOUT PLAN	AC
A4041D.03-RD901	RETAINING WALL DETAIL PLAN (1 OF 2)	AC
A4041D.03-RD902	RETAINING WALL DETAIL PLAN (2 OF 2)	AC
A4041D.03-RD903	BULK EARTHWORKS	AC

#### TABLE OF OFFSETS FOR SERVICES

STREET NAME	GAS	DW	TELCO	P2 PITS	UG ELEC	LIGHT POLE	BOK	SEWER
DELMARE DRIVE	2.2m STH	2.7m STH	1.8m NTH	1.65m STH	2.4m NTH	1.00m BOK	4.20N / 4.20S	1.0m NTH / STH
ZALE STREET	2.2m EST	2.7m EST	1.8m WST	1.65m EST	2.4m WST	1.00m BOK	4.20E / 4.20W	1.0m EST / WST

#### GENERAL NOTES

- PRIOR TO THE COMMENCEMENT OF WORKS**
- THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.
  - THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE MUNICIPALITY & VICROADS FOR ANY WORKS UNDERTAKEN WITHIN AN EXISTING ROAD RESERVE PRIOR TO THE COMMENCEMENT OF WORKS.
  - THE CONSULTANT HAS MADE EVERY REASONABLE ATTEMPT TO LOCATE EXISTING SERVICES AND HAS SHOWN THESE ON THE DRAWINGS. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND PROVIDE A WRITTEN REPORT DETAILING THE CONDITION REGARDING ALL EXISTING INFRASTRUCTURE WHICH THEY ARE INTERFACING WITH, OR OTHERWISE HAVING AN IMPACT ON.
  - PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVING AUTHORITIES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR NOT.
  - THE CONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG (CALL 1100), OR VISIT THE DIAL BEFORE YOU DIG WEBSITE PRIOR TO COMMENCING WORKS AND SATISFY THEMSELVES THAT THERE ARE NO SERVICES WITHIN THE VICINITY OF THE WORK AREA.
  - NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.
  - CONTRACTOR MUST FOLLOW THE "NO GO ZONE" SAFETY PROCEDURES AT ALL TIMES, WHICH ARE AVAILABLE FROM ALL UTILITY AND TELECOMMUNICATIONS COMPANIES, INCLUDING THE OFFICE OF THE CHIEF ELECTRICAL INSPECTOR, THE OFFICE OF GAS SAFETY AND WORKSAFE VICTORIA.
  - IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.
  - THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY BOTH COUNCIL & THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS. THIS PROJECT MANAGEMENT PLAN IS TO INCORPORATE THE FOLLOWING AT A MINIMUM AND IN ACCORDANCE WITH ANY LEGISLATION REQUIREMENTS:
    - OCCUPATIONAL HEALTH & SAFETY PROCEDURES
    - SITE STAFFING INCLUDING CONTACT DETAILS
    - TRAFFIC MANAGEMENT PLAN
    - ENVIRONMENTAL MANAGEMENT PLAN
    - QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
    - CONSTRUCTION PROGRAM
- CONSTRUCTION SETOUT**
- ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.
  - COORDINATION OF THIS DESIGN USES MGA 94, CORRECT AS OF THE DATE OF THESE PLANS. FROM 1ST JANUARY 2017, MGA 2020 MAY BE IN STANDARD USE AND WILL DIFFER IN POSITION BY AROUND 1.8 METRES FROM THIS DOCUMENT.
- PROTECTION OF VEGETATION**
- NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.
  - MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE.
- EARTHWORKS**
- ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
  - ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.
  - ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
  - ANY FILLING IN EXCESS OF 300mm DEPTH IS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION UNLESS DIRECTED OTHERWISE. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL & FILLED USING APPROVED CLAY FILL. TOPSOIL IS TO BE REPLACED NO MORE THAN 150mm THICK TO OBTAIN FINAL FILL LEVELS AS SHOWN ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED AS DETAILED ABOVE IN ACCORDANCE WITH AS3798-1996 ("GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS"). ON COMPLETION THE CONTRACTOR SHALL PRESENT A "LEVEL 1" TYPED REPORT NOMINATING THE EXTENT OF FILL PLACED, ITS CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH VERIFICATION PROVIDED TO THE SUPERVISING ENGINEER. A GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
  - THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.
  - THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
  - ALL TRENCHES ARE TO ACHIEVE THE SPECIFIED COMPACTION RESULTS WITHOUT EXCEPTION. THE SUPERINTENDENT RESERVES THE RIGHT TO REQUIRE COMPACTION TESTING BY A NATA APPROVED LABORATORY AT THE CONTRACTORS EXPENSE.
  - ALL EXCAVATIONS OF DEPTH 1.5m OR GREATER MUST COMPLY WITH LEGISLATION ENFORCED BY WORKSAFE VICTORIA. A NOTICE OF INTENTION TO COMMENCE EXCAVATION MUST BE SUBMITTED TO YOUR LOCAL WORKSAFE OFFICE.
  - ALL LOTS ARE TO ACHIEVE A MINIMUM CROSS FALL OF 1 IN 150 (0.67%) TO A LEGAL POINT OF DISCHARGE (DRAINAGE POINT OR ROAD RESERVE) UNLESS STATED OTHERWISE.
  - RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
  - ALL DISTURBED/EXPOSED AREAS MUST BE HYDROMULCHED AT THE COMPLETION OF WORKS.
- ROAD WORKS AND FOOTPATHS**
- ALL KERB & CHANNEL IS B2 (IDM SD100) UNLESS STATED OTHERWISE.
- STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES**
- ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
  - ALL EASEMENT DRAINAGE PITS ARE TO BE ARE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.
  - ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 6.0m O/S SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE.
  - ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH OR DIRECT OUT OF PIT SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED OTHERWISE.
  - REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.
  - STORMWATER DRAINS SHALL BE RCP OR HDPE (PER IDM CL16.10) UNLESS OTHERWISE SHOWN.
  - RCP STORMWATER DRAINS SHALL BE CLASS 2 (RRJ) UNLESS NOTED OTHERWISE OR AGREED UPON BY THE SUPERINTENDENT. PIPE JOINTING UP TO AND INCLUDING 600mm TO BE SPIGOT & SOCKET. PIPE DIAMETERS GREATER THAN 600mm SHALL BE FLUSH JOINTED WITH INTERIOR MORTAR JOINTS.
  - ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.
  - A CLOSED-CIRCUIT COLOUR TELEVISION (CCTV) INSPECTION OF ALL OF THE UNDERGROUND ASSETS TO
- CONSTRUCTION HOLD POINTS**
- CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE IDM
- EMERGENCY CONTACTS**
- THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES FOR ASSISTANCE IN EMERGENCY CONTACT:
 

SERVICE	AUTHORITY & CONTACT	TELEPHONE
EXISTING DRAINAGE	CITY OF GREATER GEELONG	5272 4608
SITE STORMWATER	TOMKINSON	5261 3788
SEWER & WATER	BARWON WATER	1300 656 007
ELECTRICITY	POWERCOR	132 206
GAS	AUSNET GAS	1800 088 208
COMMUNICATIONS	TELSTRA	1800 653 935
SEWER & WATER	BARWON WATER	1300 656 007
FLOOD/STORM	SES	1300 842 737
  - IN ANY EMERGENCY IF YOU BELIEVE LIFE OR PROPERTY IS THREATENED DO NOT HESITATE TO CONTACT STATE EMERGENCY SERVICES ON TELEPHONE 000.

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	MM	SP	MM	31/10/24
1	DRAWING LIST REVISIONS UPDATED SIGNAGE AND LINEMARKING PLAN UPDATED	MM	MK	MM	18/04/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D	CONTACTS & DRAWING LIST UPDATED	NC	RQ	MM	09/10/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23

**Tomkinson**  
SURVEY • ENGINEERING • PLANNING • PROJECT MANAGEMENT

10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788  
ABN 11 103 336 358 WWW.TOMKINSON.COM

**estuary II**  
LEOPOLD

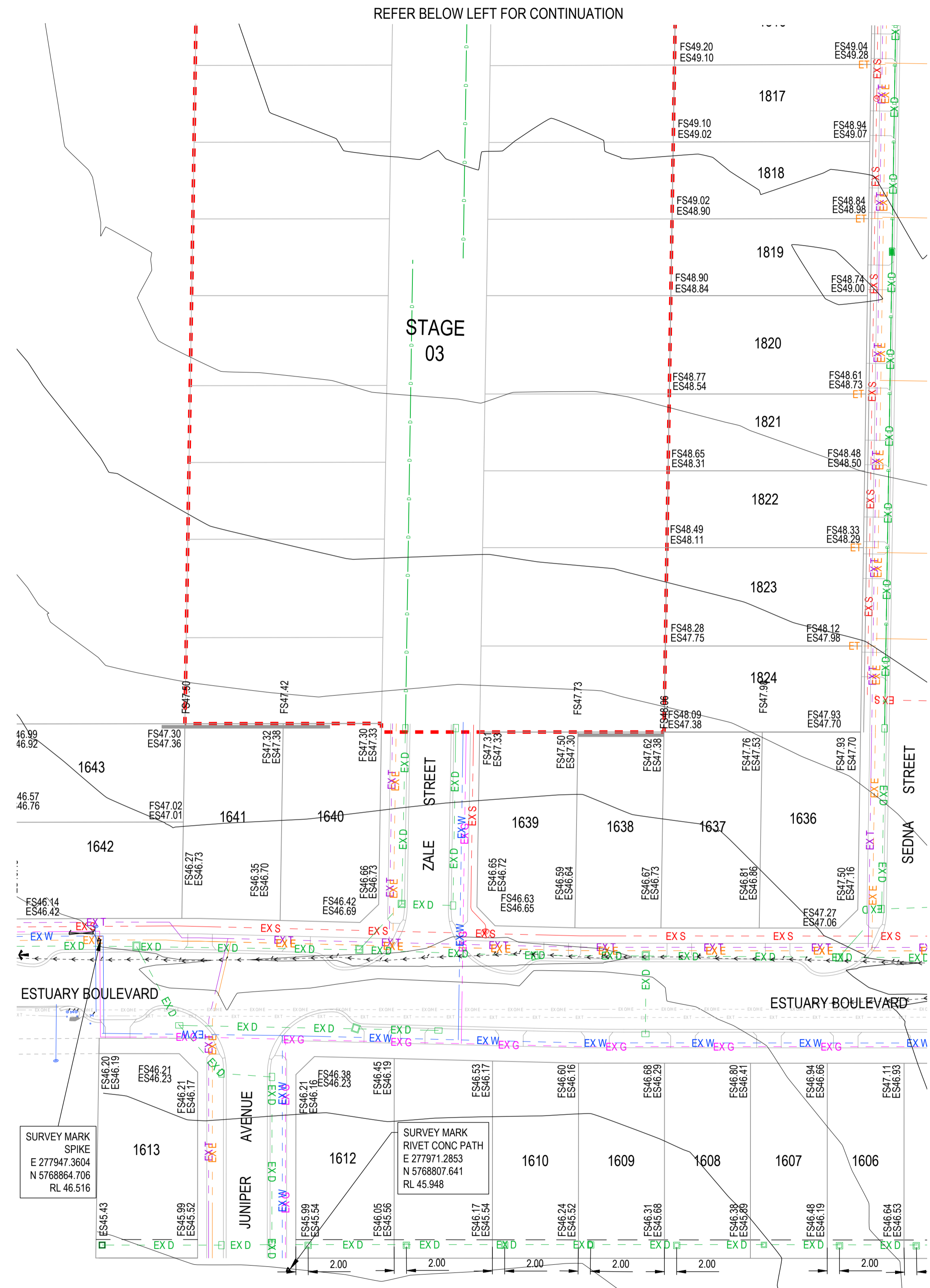
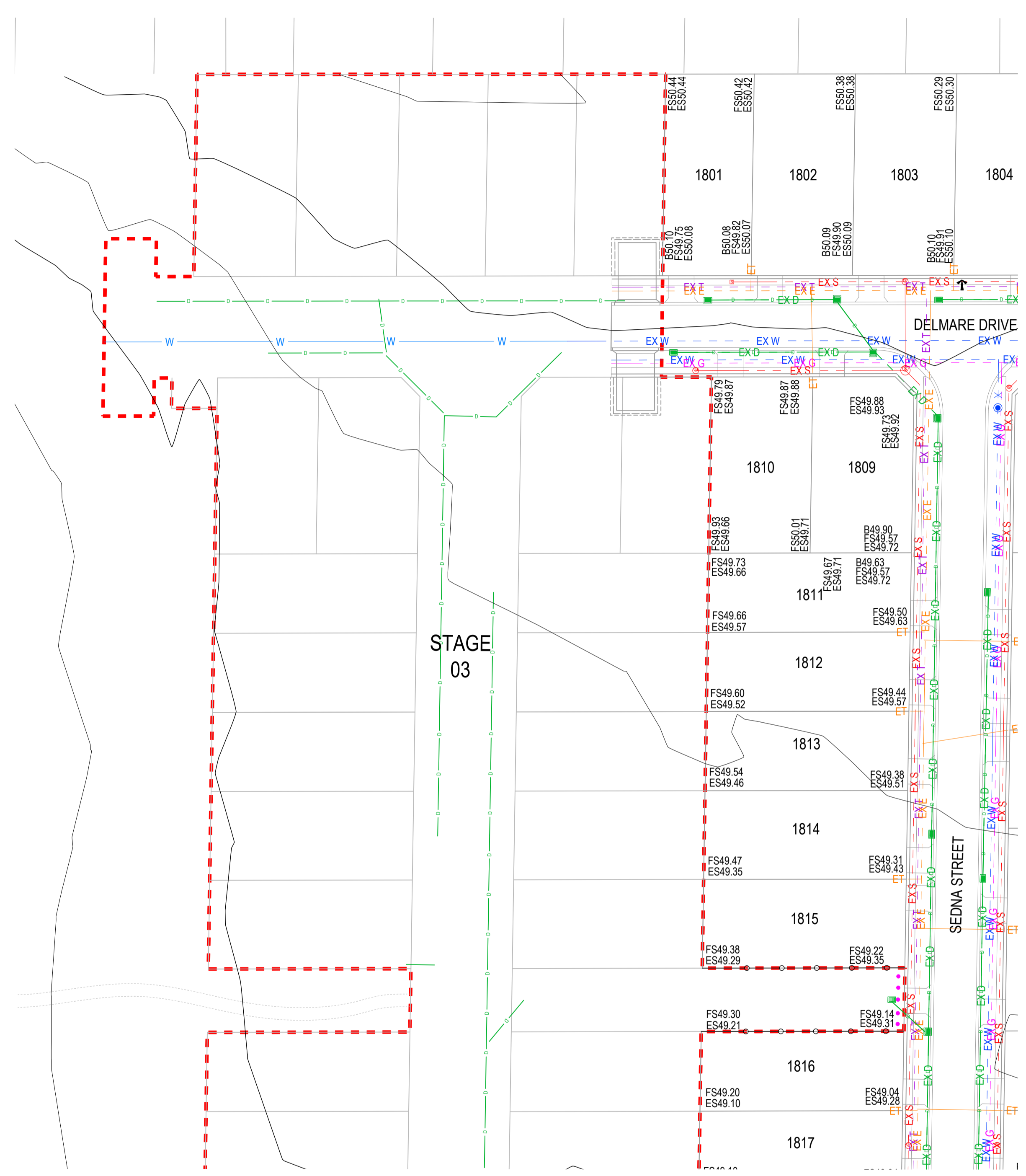
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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN**  
AUTHORITY: CITY OF GREATER GEELONG  
CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: REV: **AS CONSTRUCTED** A4041D-RD000 AC1

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SURVEY INFORMATION				
TYPE	LOCATION	East	North	Level
PM 113	Moolap PM113, 834 Bellarine Hwy	278 720.123	5 769 908.950	50.178 AHD
PM 114	Moolap PM114, Adj Rail Trail, Christies Rd	278 875.760	5 770 862.357	36.515 AHD
PM 88	Moolap PM 88, 501 Bellarine Hwy	275 647.154	5 770 793.750	12.388 AHD
RIVET	Concrete Path - Ash Road	278 133.433	5 768 724.731	47.016 AHD
RIVET	Concrete Path - Ash Road	278 142.050	5 768 786.098	47.925 AHD
RIVET	Concrete Path - Juniper Avenue	277 971.285	5 768 807.641	49.948 AHD

**AS-CONSTRUCTED SIGNATURES**

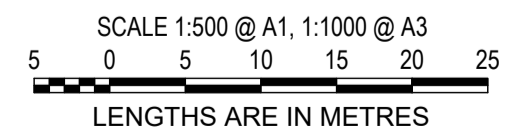
*JG* 31/10/24  
SIGN DATE  
TOMKINSON GROUP  
10/6-8 BOSTON RD, TORQUAY 3228

*Sidney Glenister* 31/10/24  
SIGN DATE  
DRAPER'S CIVIL CONTRACTING PTY LTD  
54-56 LEATHER ST, BREAKWATER VIC 3219

REFER ABOVE RIGHT FOR CONTINUATION

REFER BELOW LEFT FOR CONTINUATION

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	NC	SP	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23



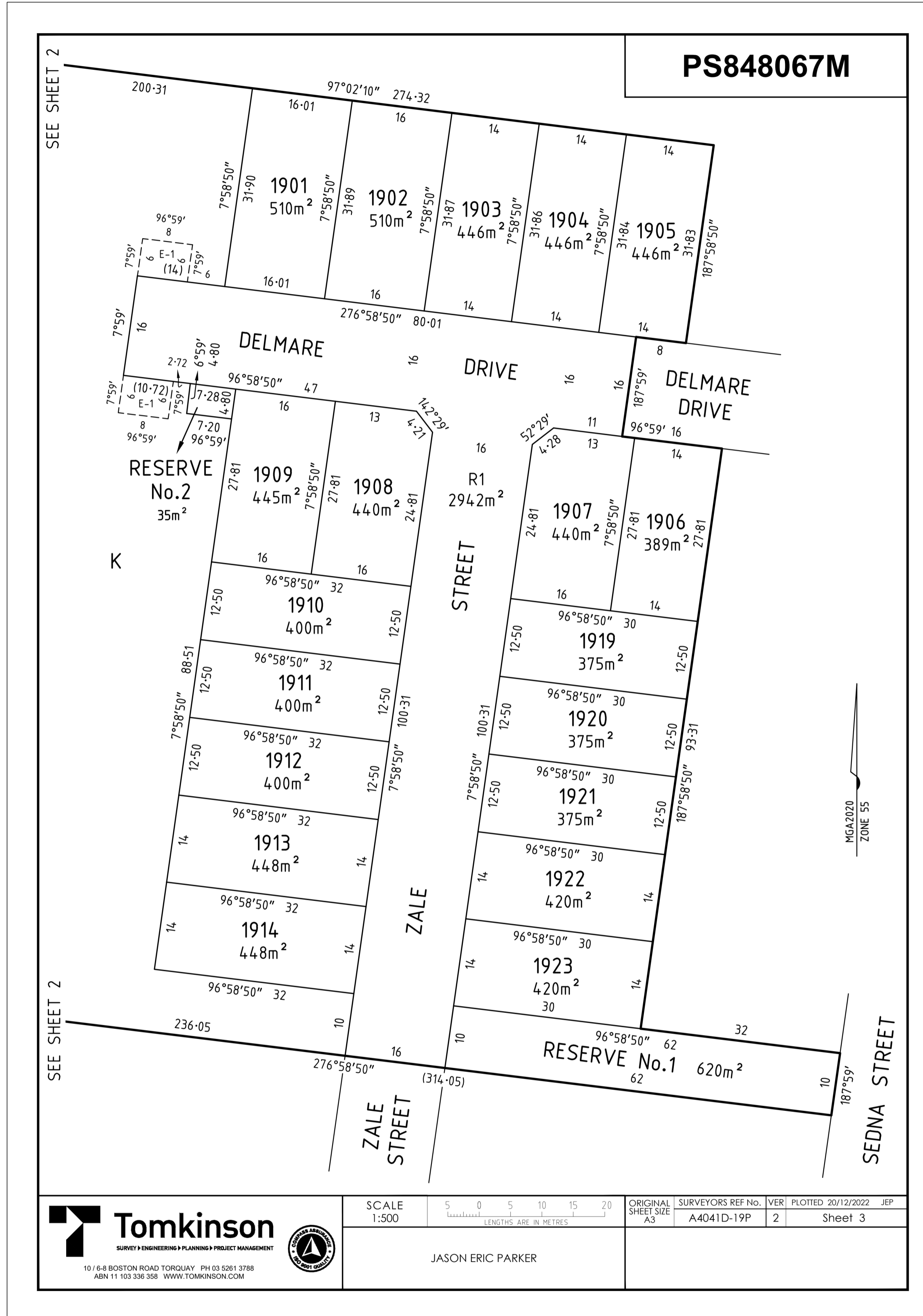
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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**EXISTING CONDITIONS**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONSTRUCTED A4041D-RD001


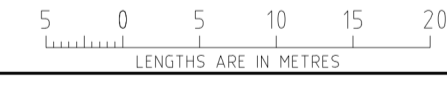
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**AS-CONSTRUCTED SIGNATURES**

 31/10/24  
 SIGN DATE  
**TOMKINSON GROUP**  
 106-8 BOSTON RD, TORQUAY 3228  
 31/10/24  
 SIGN DATE  
**DRAPER'S CIVIL CONTRACTING PTY LTD**  
 54-56 LEATHER ST, BREAKWATER VIC 3219

 <b>Tomkinson</b> <small>SURVEY ENGINEERING PLANNING PROJECT MANAGEMENT</small> <small>10 / 6-8 BOSTON ROAD TORQUAY PH 03 5261 3788        ABN 11 103 336 358 WWW.TOMKINSON.COM</small>	SCALE 1:500  <small>LENGTHS ARE IN METRES</small>	ORIGINAL SHEET SIZE A3	SURVEYORS REF No. A4041D-19P	VER 2	PLOTTED: 20/12/2022 JEP Sheet 3
	JASON ERIC PARKER				

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE




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SCALE N/A

LENGTHS ARE IN METRES

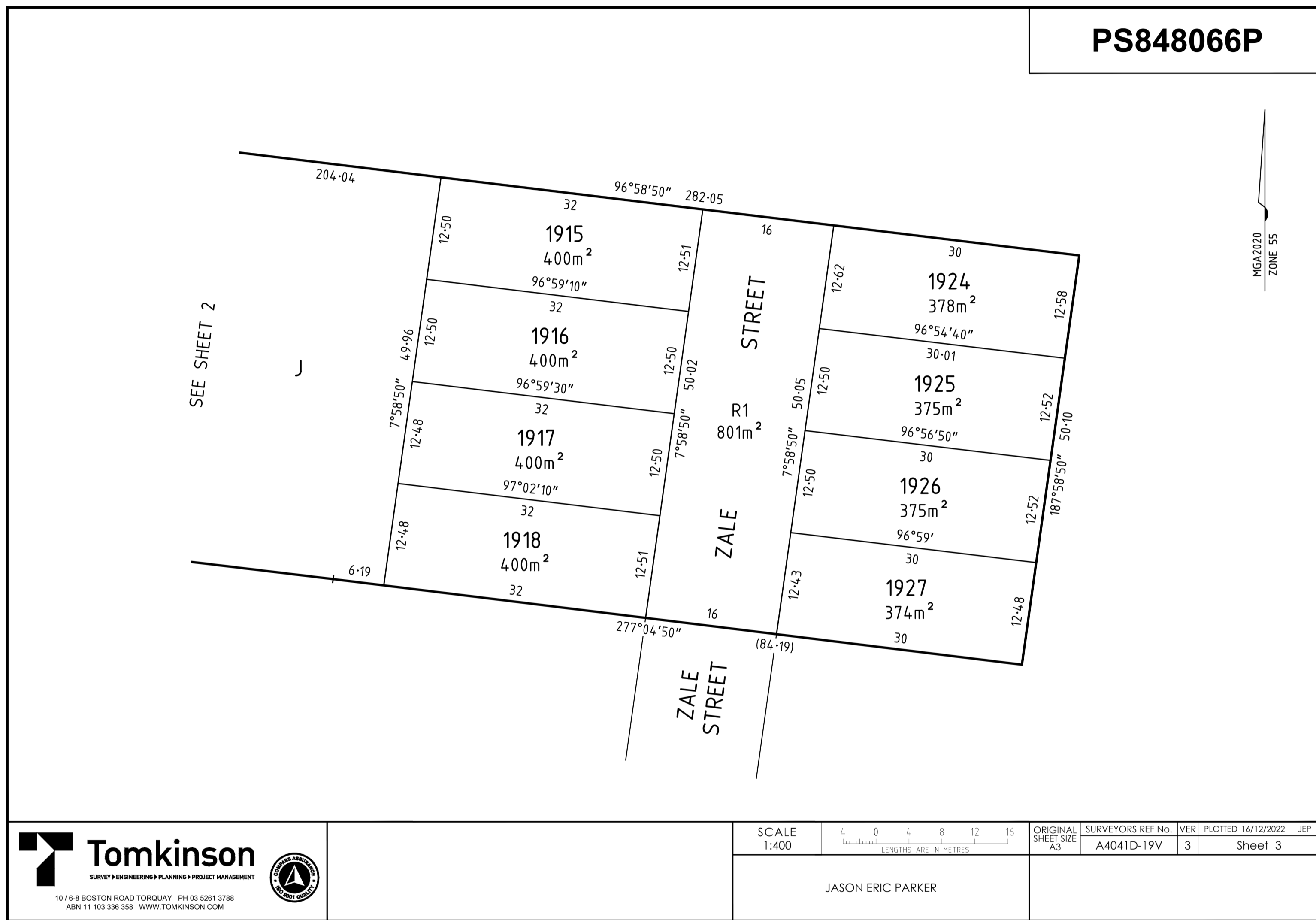



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**ESTUARY II - STAGE 03 PP-721-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**PLAN OF SUBDIVISION (SHEET 1 OF 3)**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: A4041D-RD100  
**AS CONSTRUCTED**

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 FILE: C:\12\DATA\TOMKINSON\ESTUARY II\AS CONSTRUCTED\PP-721-2021\ASH ROAD LEOPOLD RD AND DRAINAGE\A4041D-RD100.DWG

PS848066P



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SCALE	1:400	4 0 4 8 12 16	ORIGINAL SHEET SIZE	A4	SURVEYORS REF No.	A4041D-19V	VER	3	PLOTTED	16/12/2022	JEP
LENGTHS ARE IN METRES											
JASON ERIC PARKER											

**AS-CONSTRUCTED SIGNATURES**

	31/10/24
SIGN	DATE
TOMKINSON GROUP 1016-8 BOSTON RD, TORQUAY 3228	
	31/10/24
SIGN	DATE
DRAPER'S CIVIL CONTRACTING PTY LTD 54-56 LEATHER ST, BREAKWATER VIC 3219	

AC1	AS CONSTRUCTED	NC	SP	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23
REV	REVISION	DES	DWG	CHK	DATE



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SCALE N/A  
LENGTHS ARE IN METRES

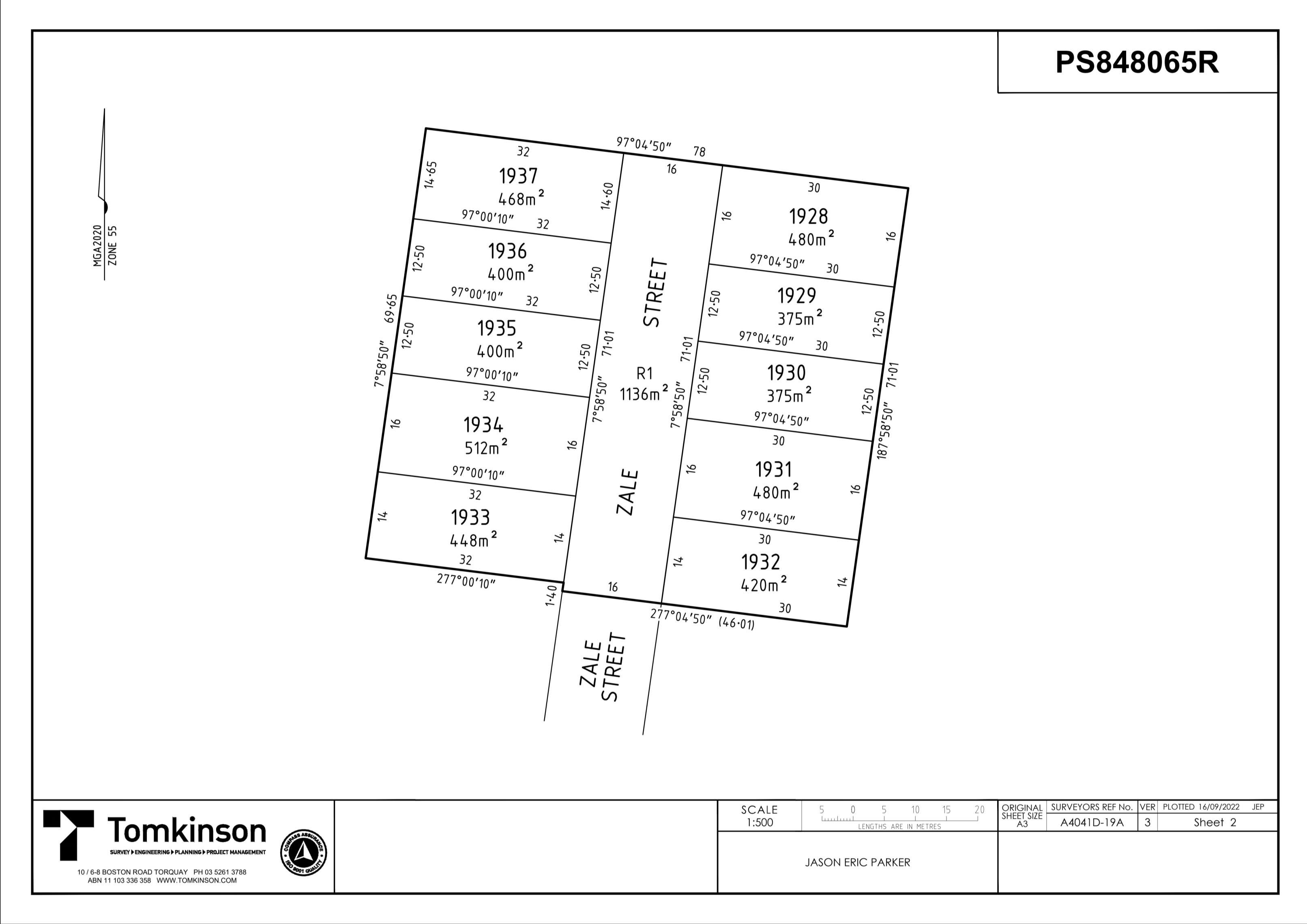


**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**PLAN OF SUBDIVISION (SHEET 2 OF 3)**  
AUTHORITY: CITY OF GREATER GEELONG  
CLIENT: ASH ROAD LEOPOLD PTY LTD  
DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED** A4041D-RD101

REV: AC1

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PLOT DATE: 31/10/2024 FILE: C:\112\DATA\TOMKINSON\860-425\01\44041 - ASH ROAD, LEOPOLD C- VILLAWOOD ENGINEERING\CAD\CURRENT\44041 - STAGE 03 ROAD AND DRAINAGE\44041D-03-RD101.DWG





PS848065R



SCALE	1:500	5 0 5 10 15 20 LENGTHS ARE IN METRES	ORIGINAL SHEET SIZE	A4	SURVEYORS REF No.	A4041D-19A	VER	3	PLOTTED	16/09/2022	JEP
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JASON ERIC PARKER

**AS-CONSTRUCTED SIGNATURES**

SIGN: DATE: 31/10/24  
 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC1	AC1 AS CONSTRUCTED	NC	RQ	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23
REV	REVISION	DES	DWG	CHK	DATE



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SCALE N/A  
 LENGTHS ARE IN METRES



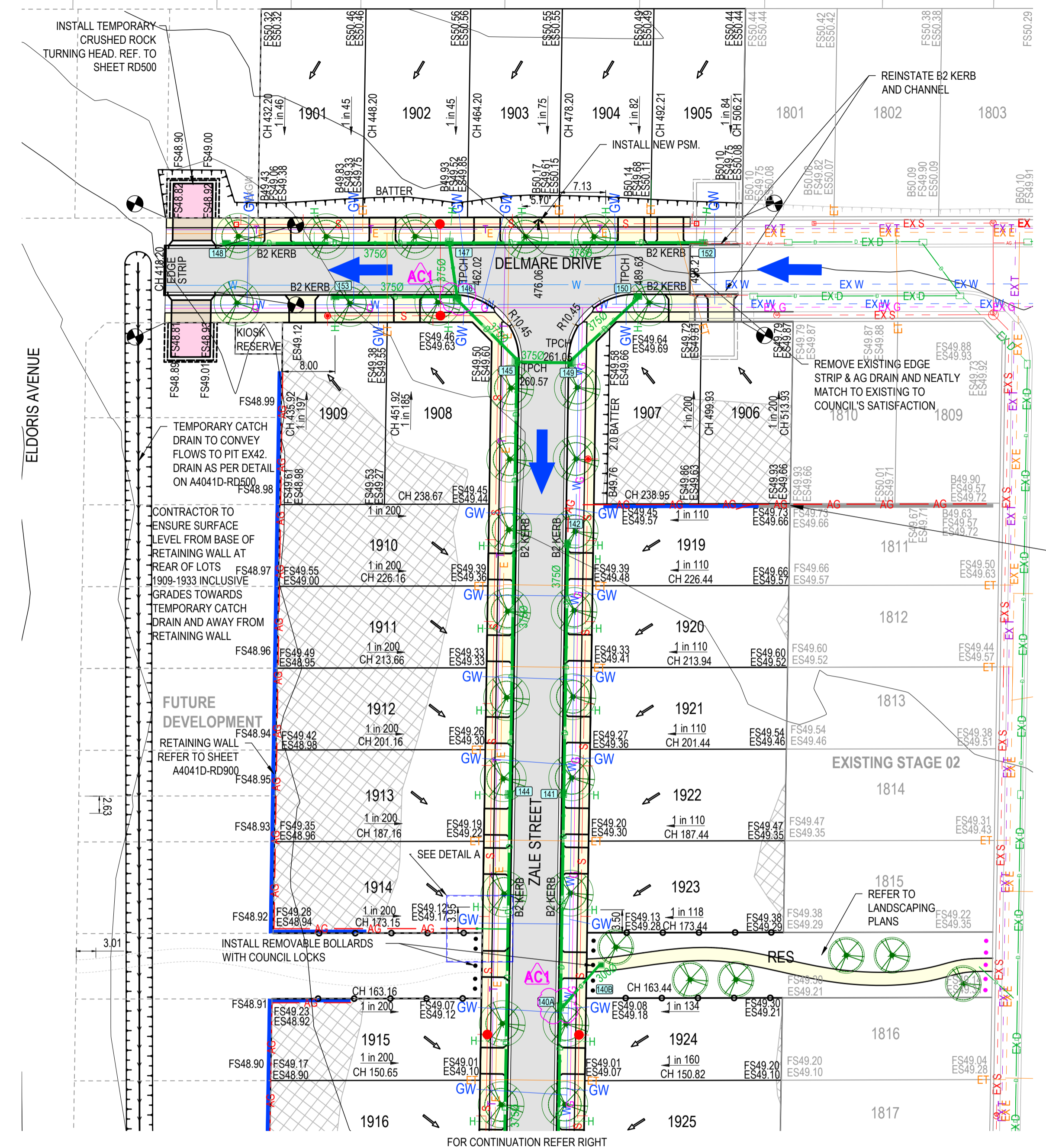
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**PLAN OF SUBDIVISION (SHEET 3 OF 3)**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: A4041D-RD102  
**AS CONSTRUCTED**

AC1

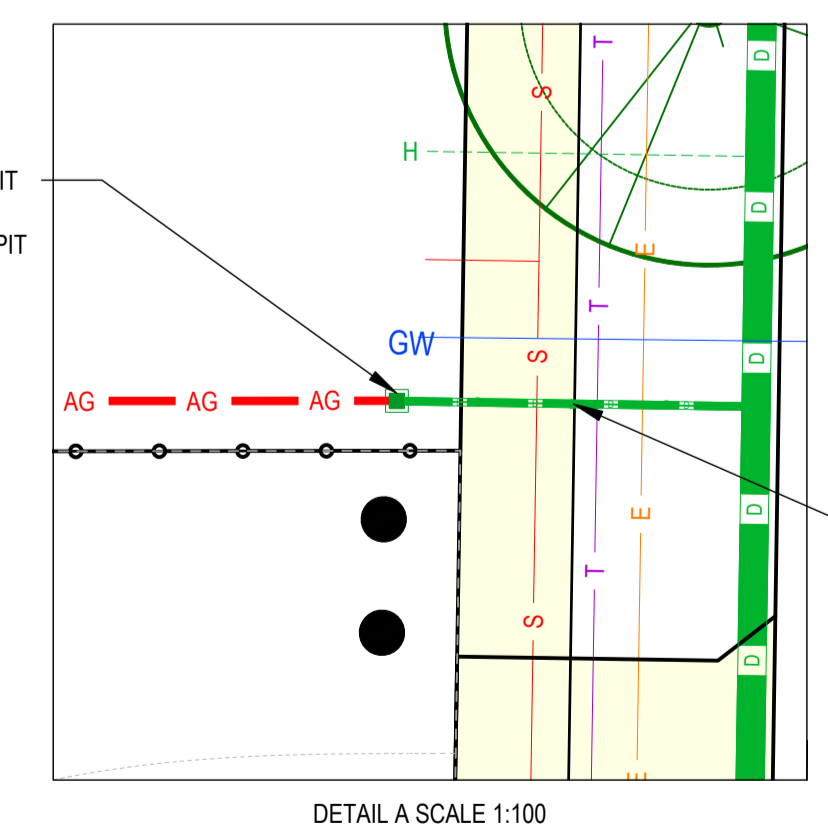
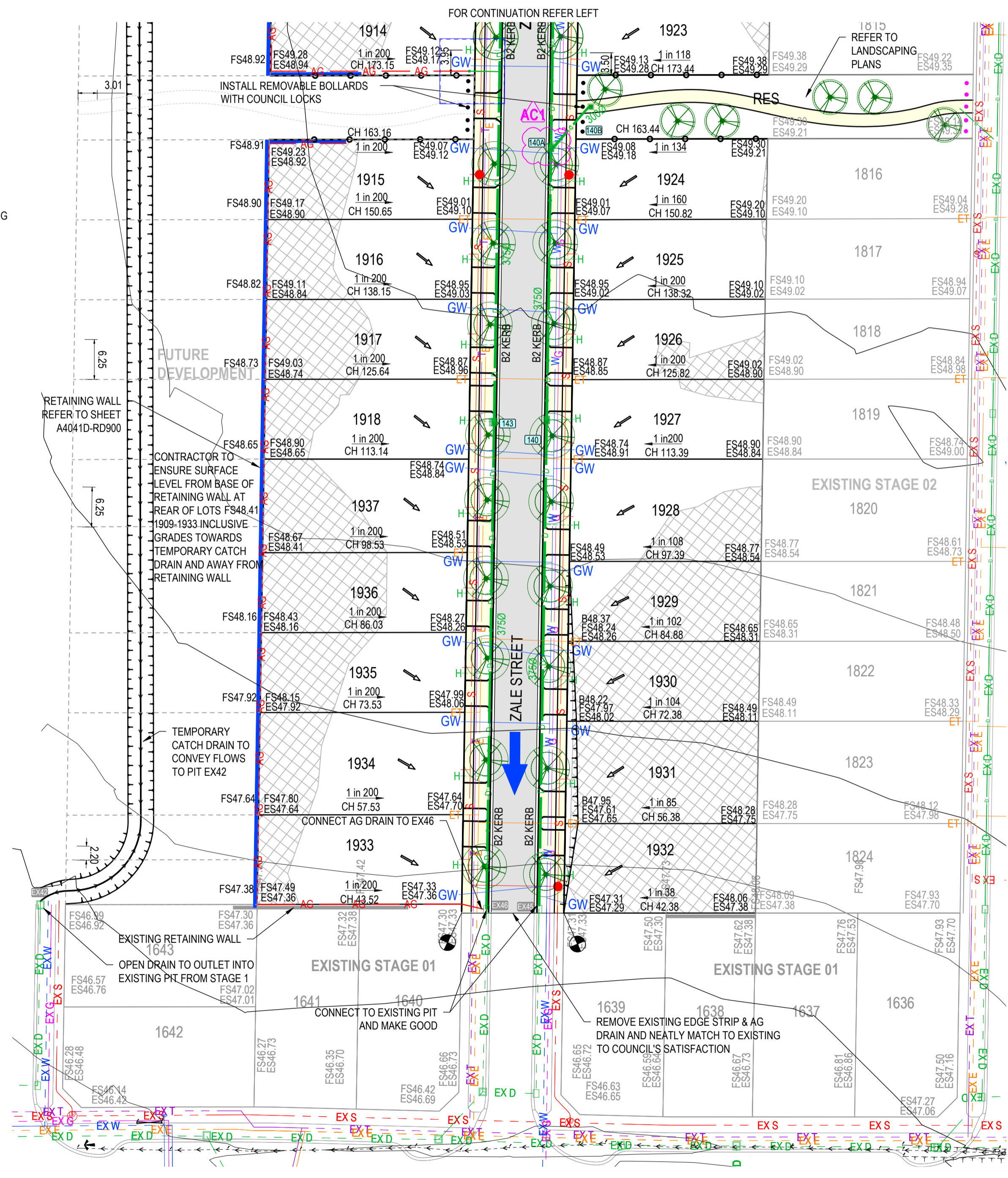


**NOTE:**

- CROSSOVERS AT RESERVES TO HAVE NO BULL NOSE TO ENSURE THERE IS NO HINDRANCE OF PEDESTRIANS USING TO CROSS THE ROAD.
- BOLLARDS TO BE INSTALLED ALONG ALL RESERVE ENTRIES ADJACENT ROAD RESERVE BOUNDARY.
- RESERVE BOLLARDS TO BE OFFSET 1.0m FROM ROAD RESERVE BOUNDARY WITH 1.5m SPACINGS.
- REMOVABLE BOLLARDS WITH COUNCIL LOCKS TO BE PROVIDED ADJACENT CROSSOVERS.
- REFER TO STANDARD DRAWING CCG701 FOR TYPICAL BOLLARD DETAIL.
- RESERVE BOUNDARIES ADJACENT LOTS TO BE FULLY FENCED. REFER TO LANDSCAPING PLANS FOR DETAILS.



CONTINUE EXISTING RETAINING WALL  
EXTEND EX. AG DRAIN AND  
CONNECT TO PIT 142.



**AS-CONSTRUCTED SIGNATURES**

SIGN: *[Signature]* DATE: 31/10/24  
 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED	NC	SP	MM	31/10/24
0 CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D UPDATE TURNING AREA HATCHING, ADD ET LOCATIONS, ADD AG DRAINS AND LOT GRADES	NC	RQ	MM	27/10/23
ADD DRAINAGE AND PIT TO RESERVE				
C AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A PRELIMINARY ISSUE	NC	PW	MM	05/04/23
REV	DES	DWG	CHK	DATE



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SCALE 1:500 @ A1, 1:1000 @ A3  
 5 0 5 10 15 20 25  
 LENGTHS ARE IN METRES

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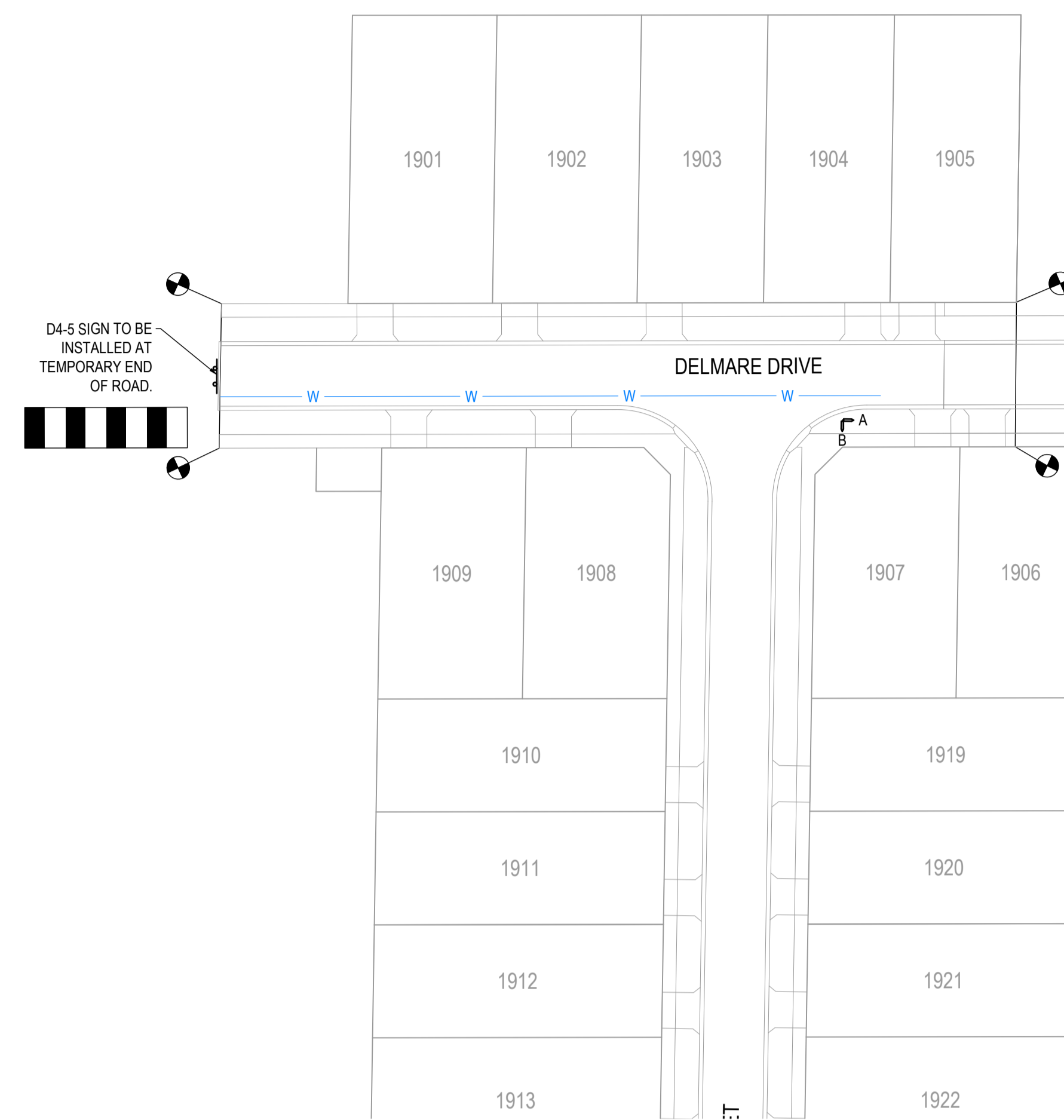
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 www.1100.com.au

**COMPASS ASSURANCE**  
 ISO 9001 QUALITY

**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE LAYOUT PLAN**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: **AS CONSTRUCTED** A4041D-RD200  
 PROJECT & DWG No: **AC1**

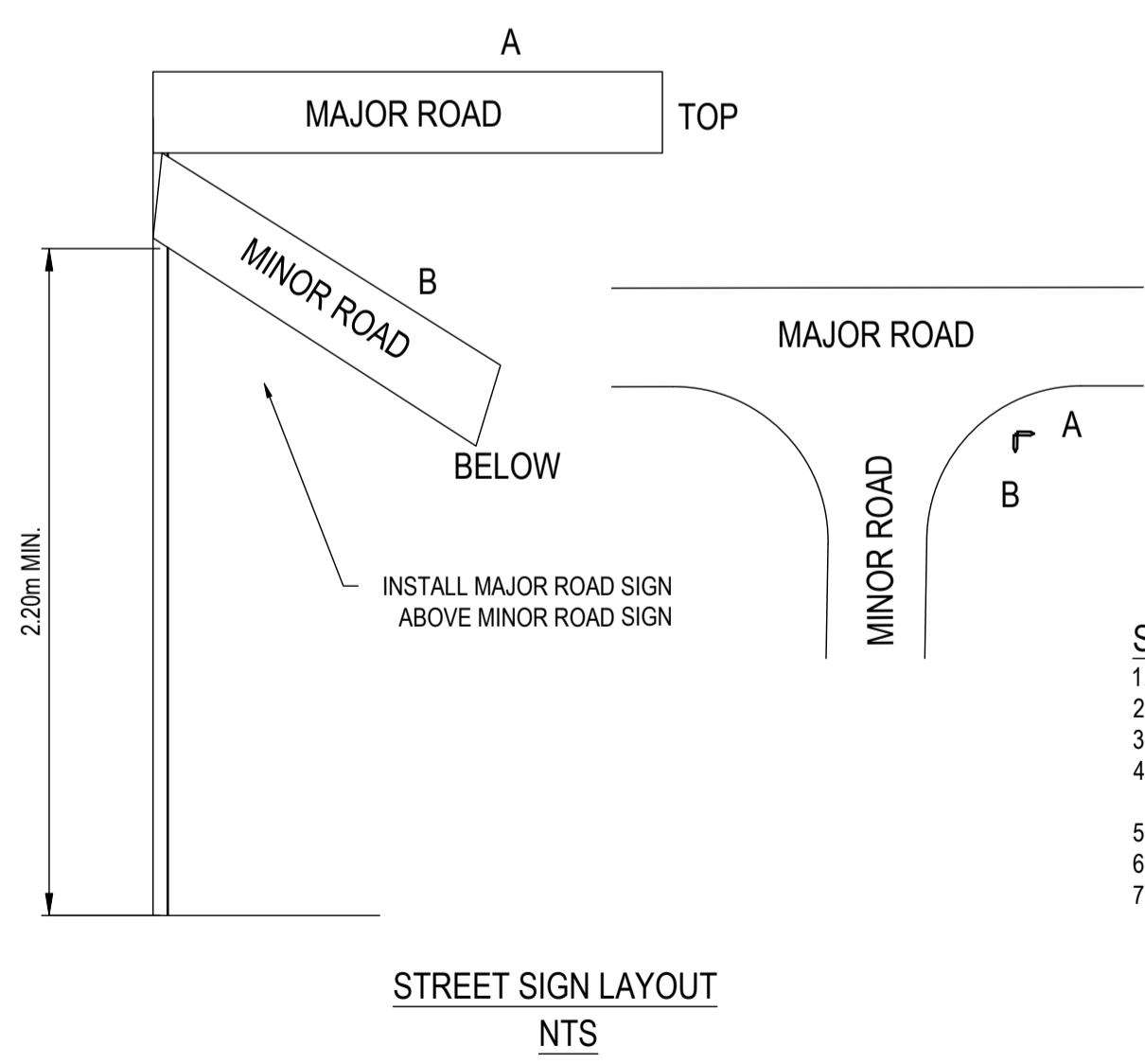
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS.  
 PLOT DATE: 31/10/2024 FILE: C:\12\DATA\TOMKINSON\BGO-42\SDS01\A4041 - ASH ROAD, LEOPOLD C-VILLAWOOD BENDIGO, LEOPOLD\_988ENGINEERING\CAD\CURRENT\A4041 - STAGE 3\ROAD AND DRAINAGE\A4041D-RD200.DWG






ROAD SIGN SCHEDULE		
TYPE	SIGN NAME	QTY
G5 SERIES	STREET SIGN	2
D4-5	TEMPORARY END OF ROAD	1
R5-35 (L)	NO STOPPING SIGN	2
R5-35 (R)	NO STOPPING SIGN	1

STREET SIGN SCHEDULE		
SIGN	SIGN NAME	QTY
A	DELMARE DR	1
B	ZALE ST	1



- SIGNAGE & LINEMARKING NOTES:**
- 90° BENDS TO HAVE CENTRE LINEMARKING WITH RRPMS AT MAX 6m SPACING.
  - RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL. 2.
  - ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
  - ALL SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2 - SIGNS AND LINEMARKINGS.
  - ALL SIGN POSTS TO BE SLEEVED IN ACCORDANCE WITH COGG SD C6710 - SIGN POSTS.
  - ALL LINEMARKINGS TO BE THERMOPLASTIC PERMANENT PAINT.
  - ALL HYDRANTS TO BE IDENTIFIED IN ACCORDANCE WITH C.F.A. DOCUMENT - IDENTIFICATION OF STREET HYDRANTS FOR FIREFIGHTING PURPOSES, PUBLISHED JULY 2019 INCLUDING INSTALLATION OF BLUE RAISED REFLECTIVE PAVEMENT MARKERS & PAINTED WHITE REFLECTIVE TRIANGLES.

**AS-CONSTRUCTED SIGNATURES**

 31/10/24  
 SIGN DATE  
**TOMKINSON GROUP**  
 10/6 BOSTON RD, TORQUAY 3228  
 Sydney, Glenelg  
 SIGN DATE  
**DRAPER'S CIVIL CONTRACTING PTY LTD**  
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	MM	SP	MM	31/10/24
1	CHANGE SIGN NAMES, ADD SIGN LABELS, REMOVE SIGN IMAGES	MM	MK	MM	18/04/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23



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 LENGTHS ARE IN METRES

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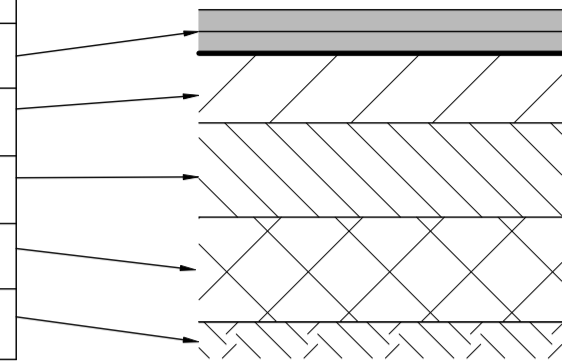
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE SIGNAGE AND LINEMARKING PLAN**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONTRUCTED A4041D-RD300

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 PLOT DATE: 31/10/2024 FILE: C:\12\DD\A\TOM\KMB90-42DS01\A4041 - ASH ROAD LEOPOLD LEOPOLD C - VILLAWOOD BENDIGO - LEOPOLD\_9886ENGINEERING\CAD\CURRENT\A4041 - ASH ROAD AND DRAINAGE\A4041D-RD300.DWG



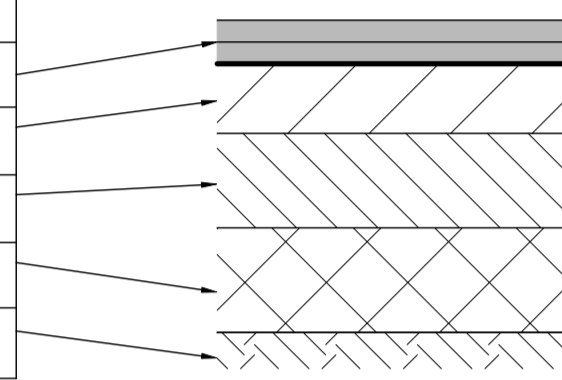
ZALE STREET

490mm DEPTH PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1. WEARING COURSE	40	SIZE 10 TYPE N BITUMINOUS SURFACING
2. UPPER BASE COURSE	150	20mm NOM. SIZE CL 2 FCR COMPACT TO 98% MMDD
3. LOWER BASE COURSE	150	20mm NOM. SIZE CL 3 FCR COMPACT TO 98% MMDD
4. SUBBASE COURSE	150	20mm CL 4 FCR SUBGRADE IMPROVEMENT LAYER COMPACT TO 98% SMDD
5. SUBGRADE		PREPARED SUBGRADE TO 98% SMDD



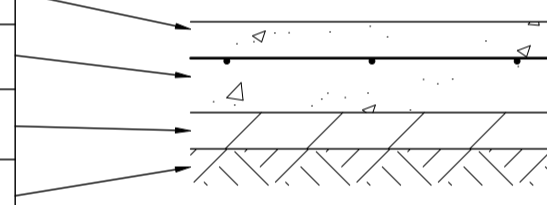
DELMARE DRIVE

560mm DEPTH PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1. WEARING COURSE	40	SIZE 10 TYPE N BITUMINOUS SURFACING
2. UPPER BASE COURSE	150	20mm NOM. SIZE CL 2 FCR COMPACT TO 98% MMDD
3. LOWER BASE COURSE	220	20mm NOM. SIZE CL 3 FCR COMPACT TO 98% MMDD
4. SUBBASE COURSE	150	20mm CL 4 FCR SUBGRADE IMPROVEMENT LAYER COMPACT TO 98% SMDD
5. SUBGRADE		PREPARED SUBGRADE TO 98% SMDD



CONCRETE FOOTPATH, SHARED PATH PAVEMENT AND DRIVEWAY DETAILS (IDM SD 205) & COGG DESIGN NOTE 12

PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 25MPa WITH SL72 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



GRAVEL PAVEMENT

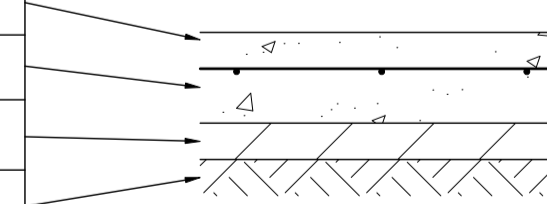
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

PAVEMENT NOTES:

- ROAD PAVEMENT COMPOSITIONS TO BE AS PER GEOTECHNICAL REPORT 'ESTUARY II ESTATE, 6981/22/410 ASH ROAD LEOPOLD' PREPARED BY GEOTEST CIVIL SERVICES
- PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
- PAVEMENT SUBBASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% MODIFIED WITH MOISTURE CONTENT WITHIN ±3% OF MODIFIED OPTIMUM MOISTURE CONTENT (MOMC).
- THE CAPPING LAYER SHALL BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% STANDARD WITH MOISTURE CONTENT WITHIN ±3% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).
- PAVEMENT LAYERS SHOULD BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS.
- SUBGRADE PREPARATION AND ENGINEERED FILL CONSTRUCTION (PAVEMENTS) TO BE IN ACCORDANCE WITH RELEVANT STANDARDS.
- WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCL. ROCK & CLAY) MUST BE REMOVED. THE SUBGRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED MUST BE OBTAINED FROM COUNCIL.
- ALL CONCRETE WORKS TO ABIDE WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED 2020.

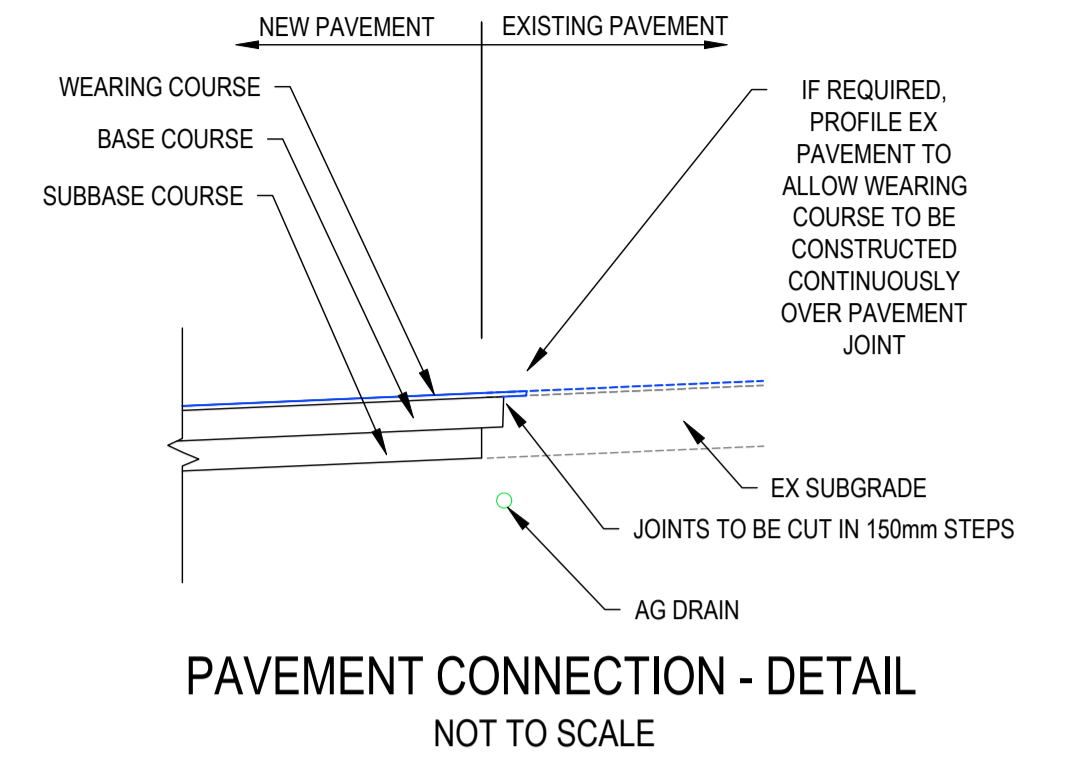
INDUSTRIAL VEHICLE CROSSING (IDM SD 250) & COGG DESIGN NOTE 12

PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 SURFACE FINISH		BROOMED FINISH & TOOLED JOINTS. FINISHED SURFACE TO COMPLY WITH AS 4586 - SLIP RESISTANT CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS
2 CONCRETE	125	CONCRETE 32MPa WITH SL82 TOP REINFORCEMENT WITH 50mm MIN. COVER.
3 BASE	100	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK (SEE NOTE C ADJACENT)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT

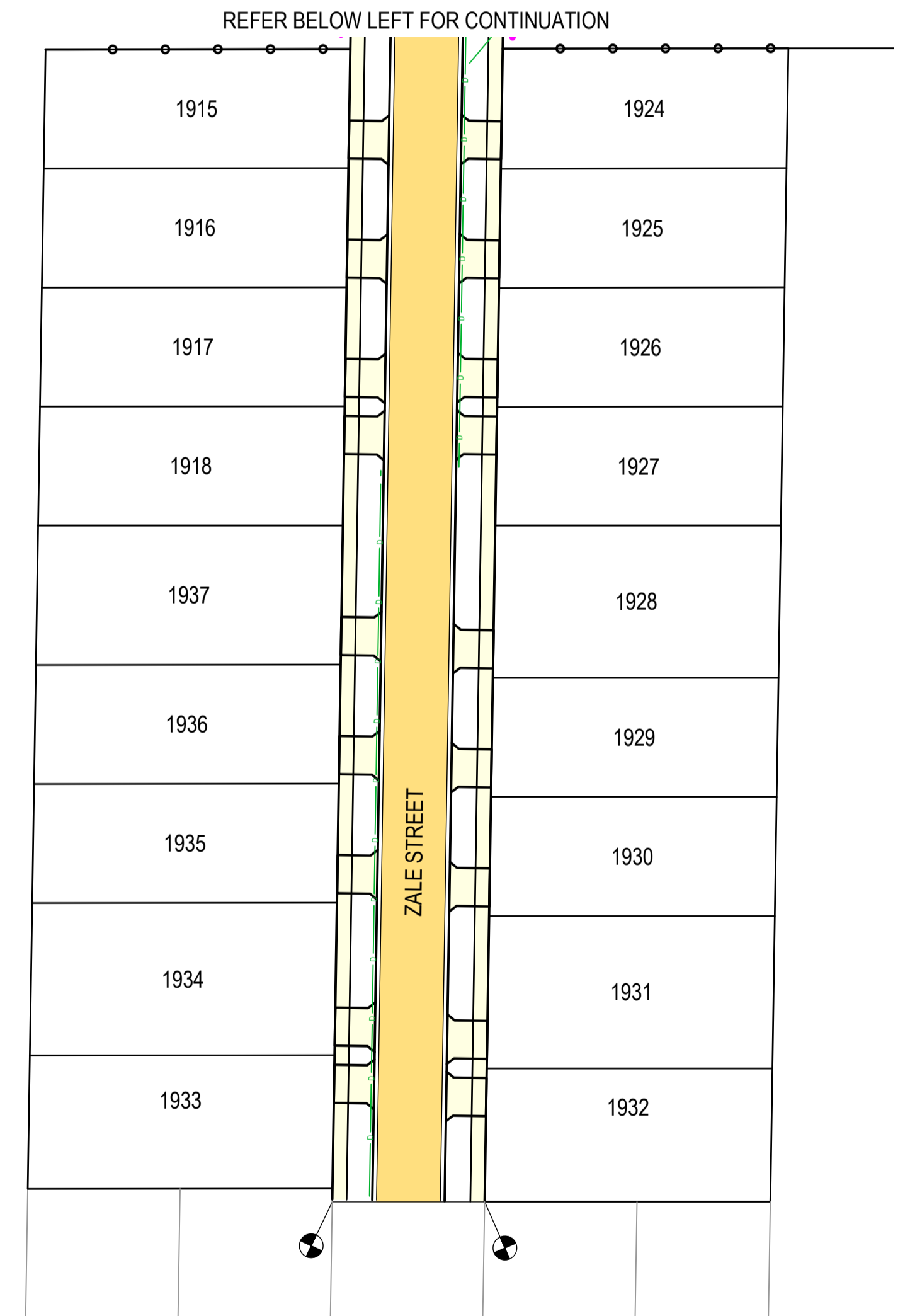
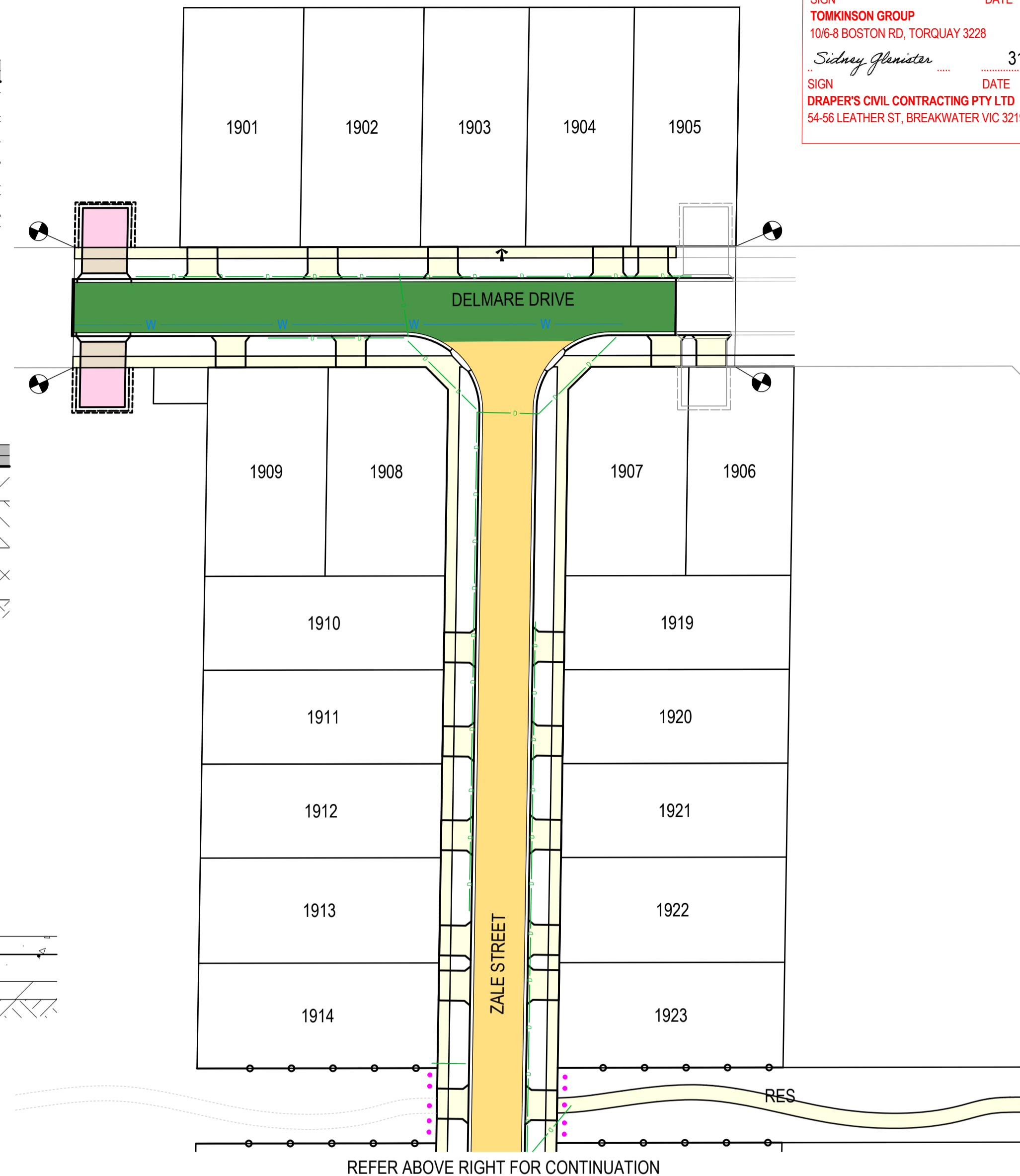


AS-CONSTRUCTED SIGNATURES

SIGN: *JG* DATE: 31/10/24  
 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228  
 SIGN: *Sidney Glenister* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219



REFER TO GEOTECHNICAL INVESTIGATION REPORT BY GEOTEST CIVIL SERVICES DATED 7 JULY 2022 FOR ESTUARY BLVD, WALKERS ROAD, ASH ROAD, DELMARE / RHEA DRIVE, HAMA / ELDORIS AVE AND ZALE / SEDNA STREET.



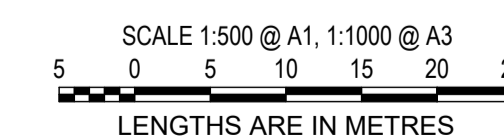
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0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D	UPDATE TURNING AREA	NC	RQ	MM	09/10/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23



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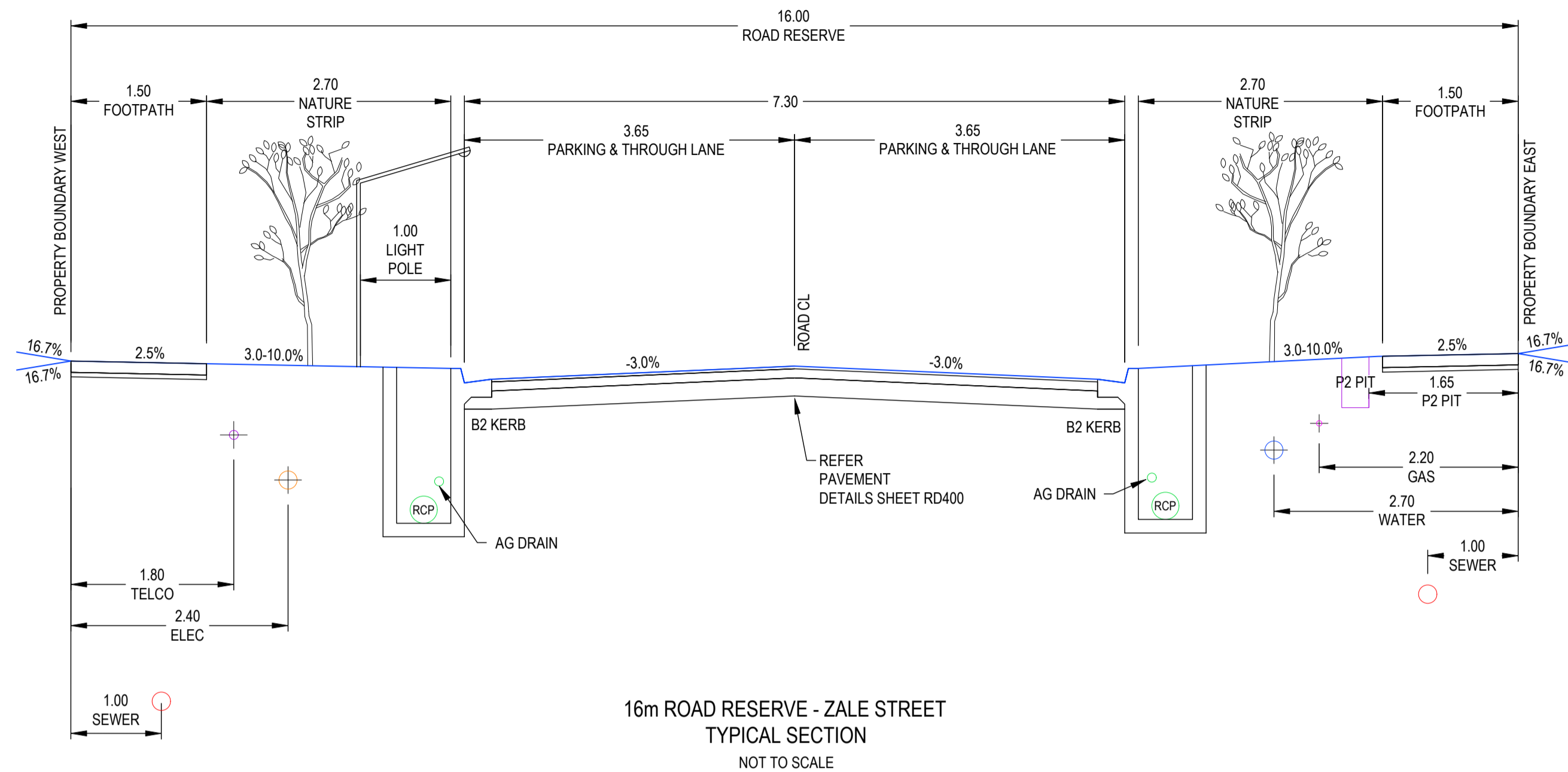
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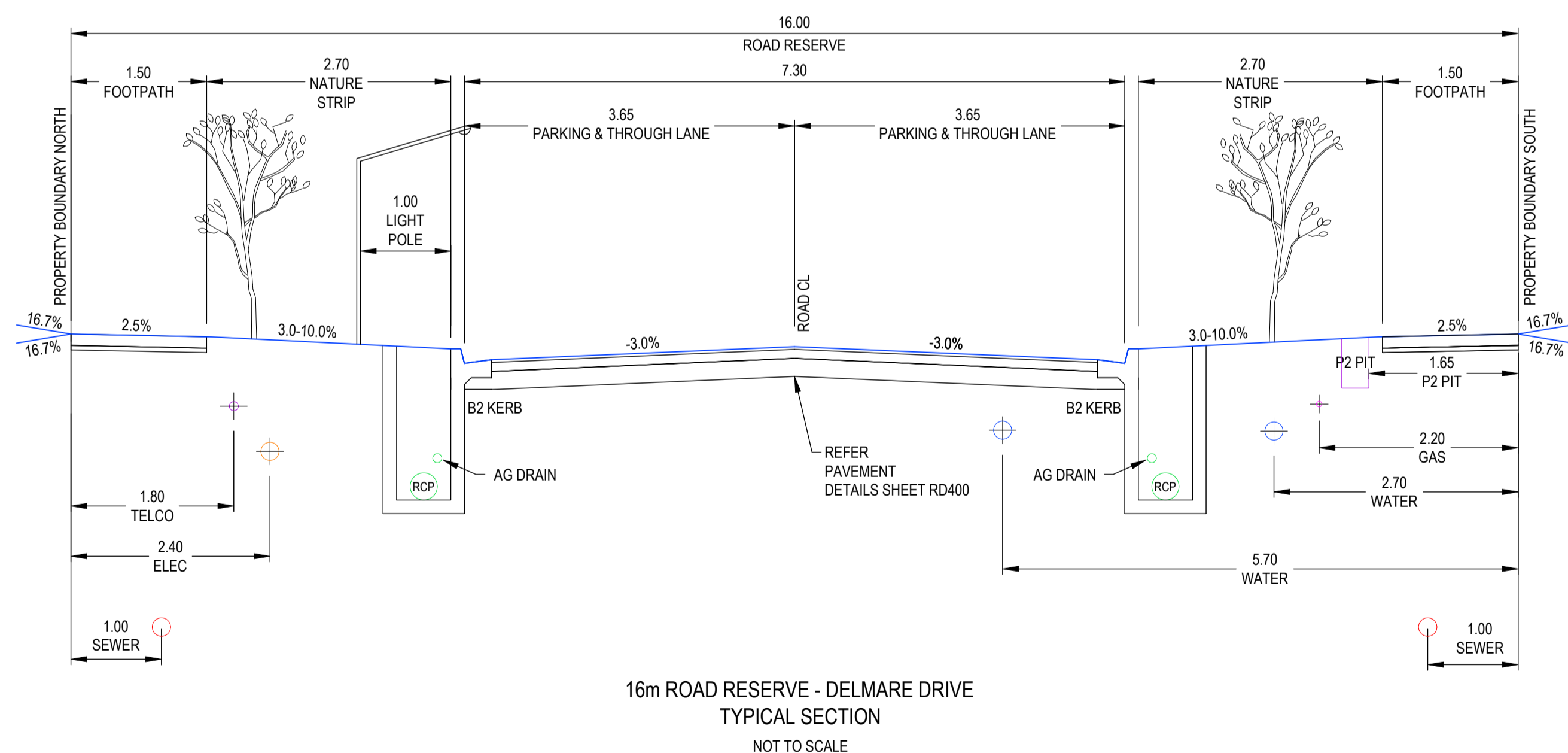
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD ROAD AND DRAINAGE PAVEMENT PLAN**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONTRUCTED A4041D-RD400

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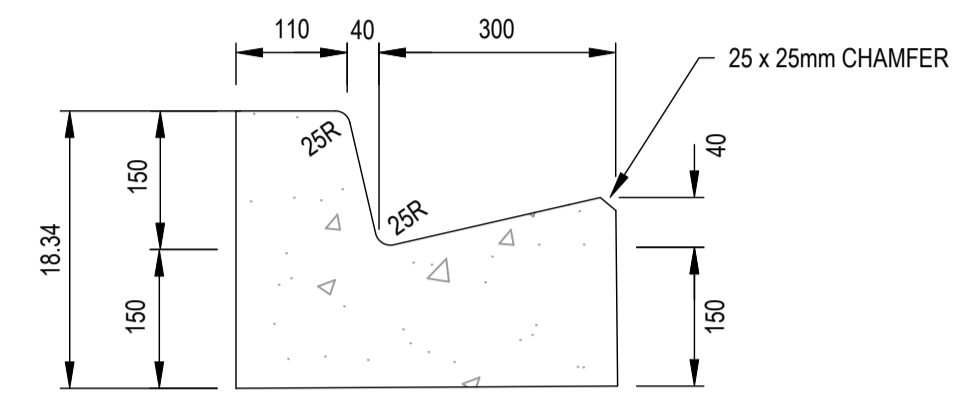
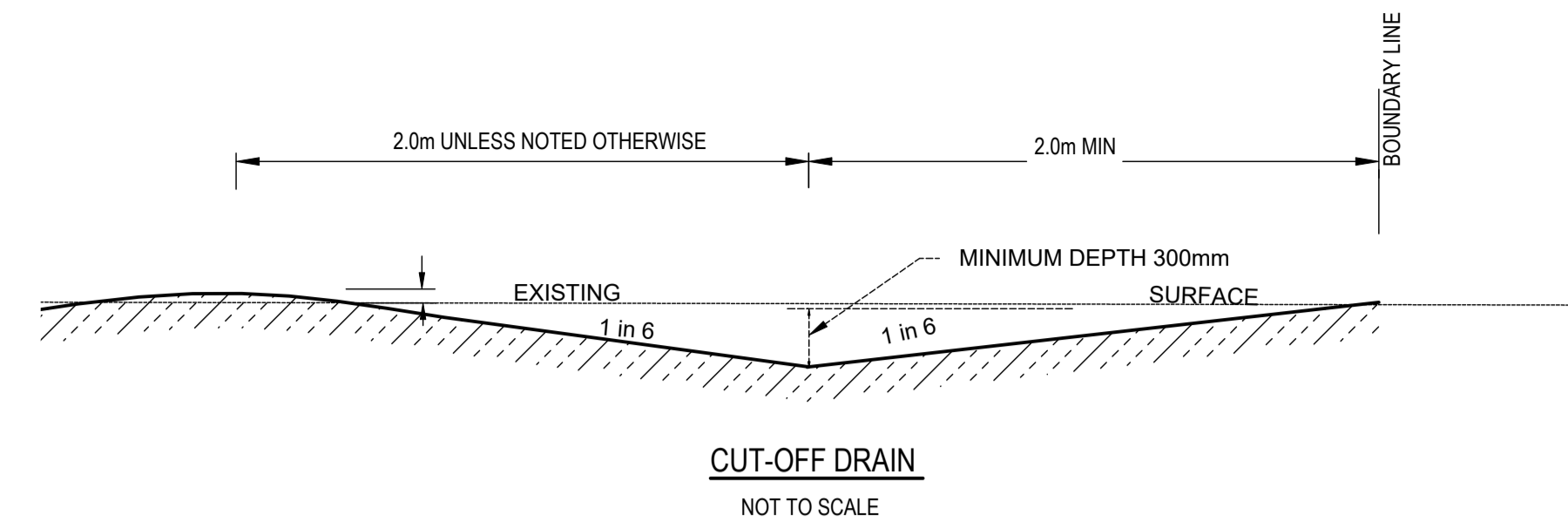




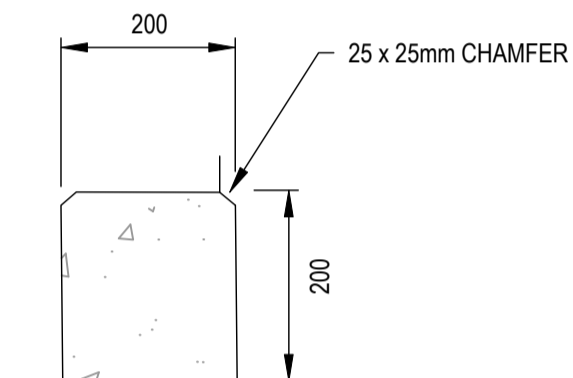
16m ROAD RESERVE - ZALE STREET  
TYPICAL SECTION  
NOT TO SCALE



16m ROAD RESERVE - DELMARE DRIVE  
TYPICAL SECTION  
NOT TO SCALE



B2 KERB DETAIL (IDM SD100)  
NOT TO SCALE

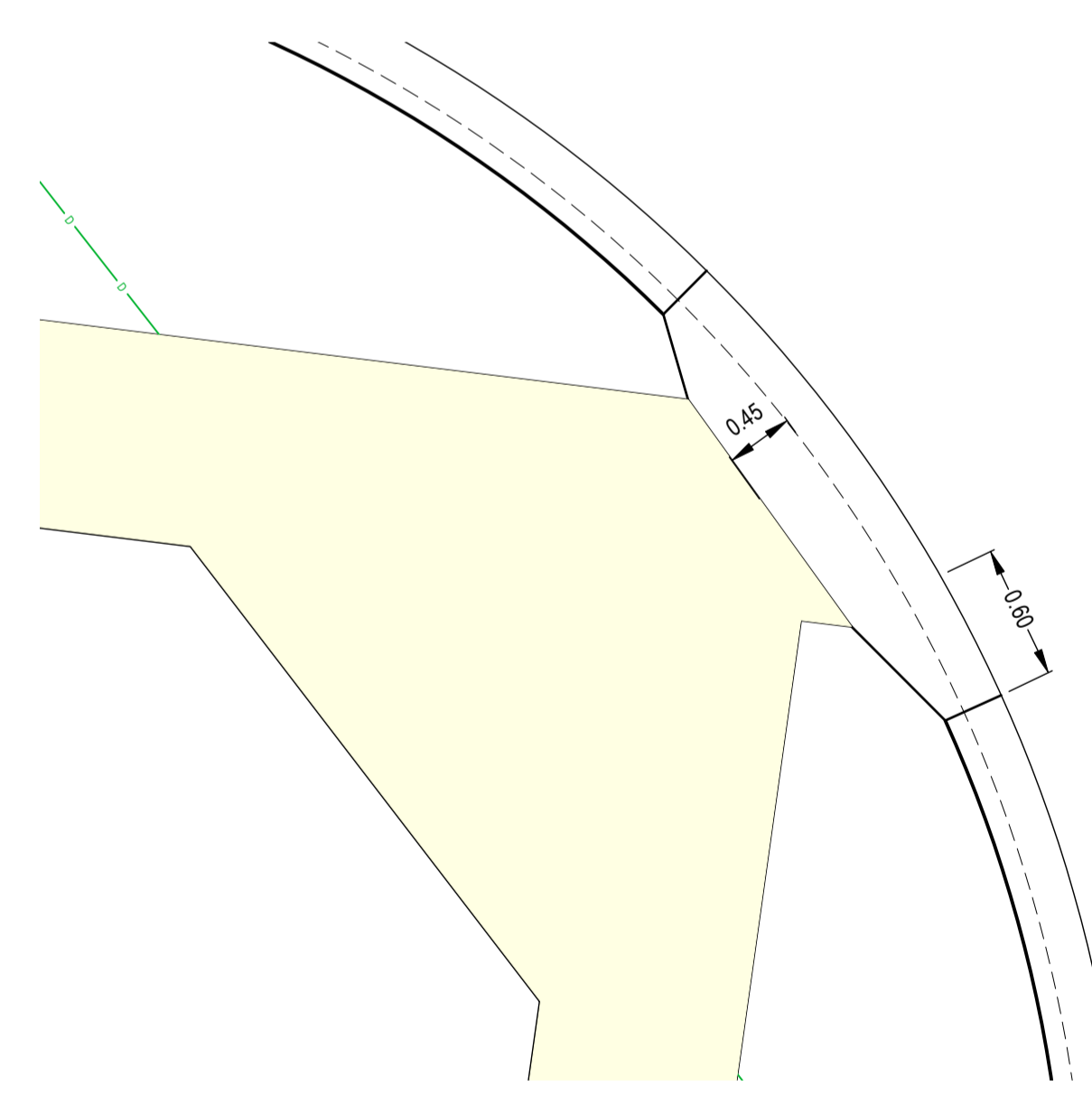


EDGE STRIP (IDM SD100)  
NOT TO SCALE

**AS-CONSTRUCTED SIGNATURES**

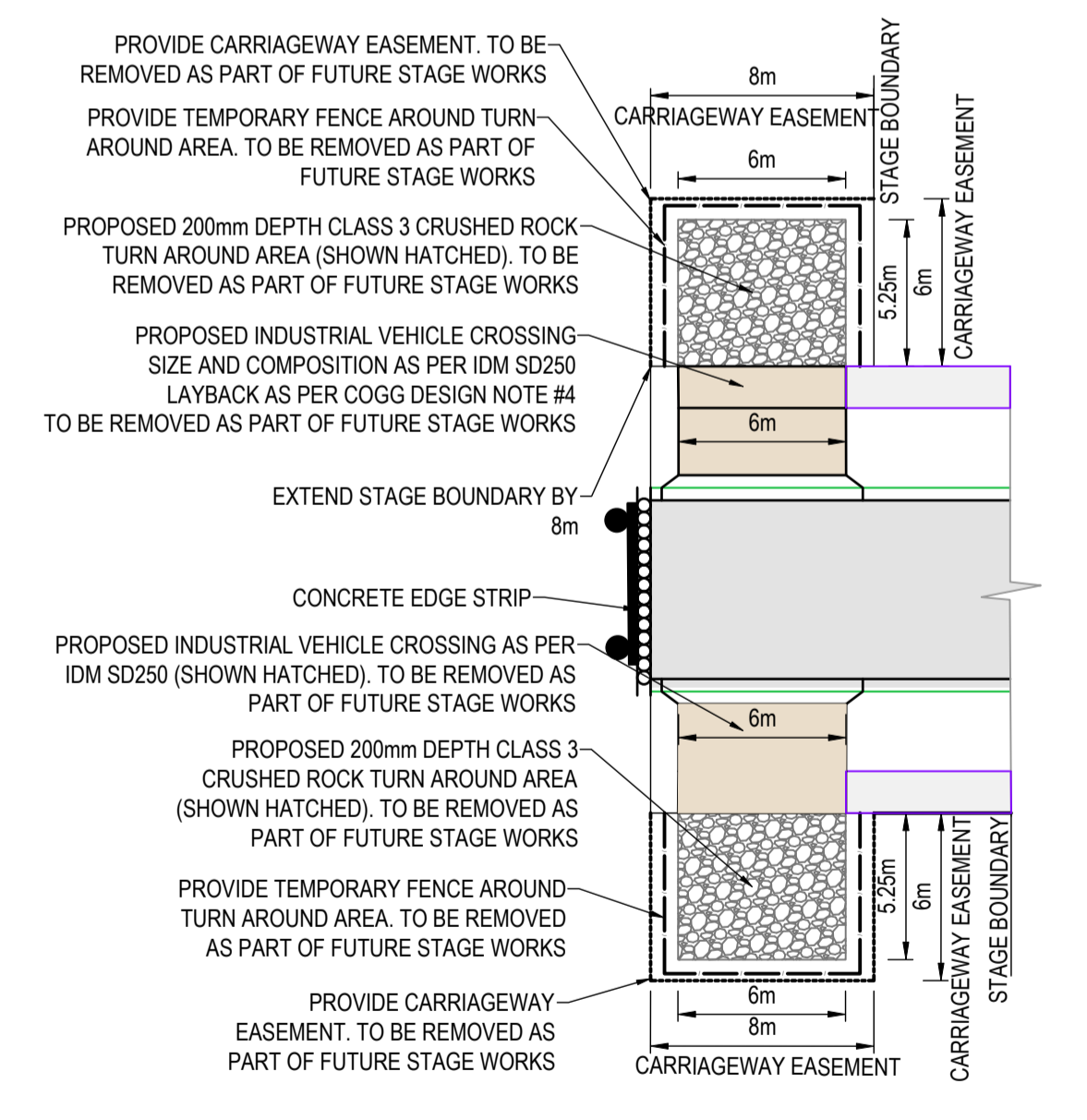
SIGN: *JG* DATE: 31/10/24  
 TOMKINSON GROUP  
 1016-8 BOSTON RD, TORQUAY 3228

SIGN: *Sidney Glanister* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219



TYPICAL - PRAM CROSSING DETAIL

SCALE 1:50 @ A1, 1:100 @ A3  
 0.5 0 0.5 1.0 1.5 2.0 2.5  
 LENGTHS ARE IN METRES



TYPICAL CARRIAGEWAY  
EASEMENT TURN AREA DETAIL  
N.T.S.

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	NC	SP	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D	AMENDED TURN AREA DETAIL	NC	RQ	MM	09/10/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23

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 ABN 11 103 336 358 WWW.TOMKINSON.COM

*estuary* 11  
 LEOPOLD 00

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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD TYPICAL SECTIONS & DETAILS**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONSTRUCTED A4041D-RD500

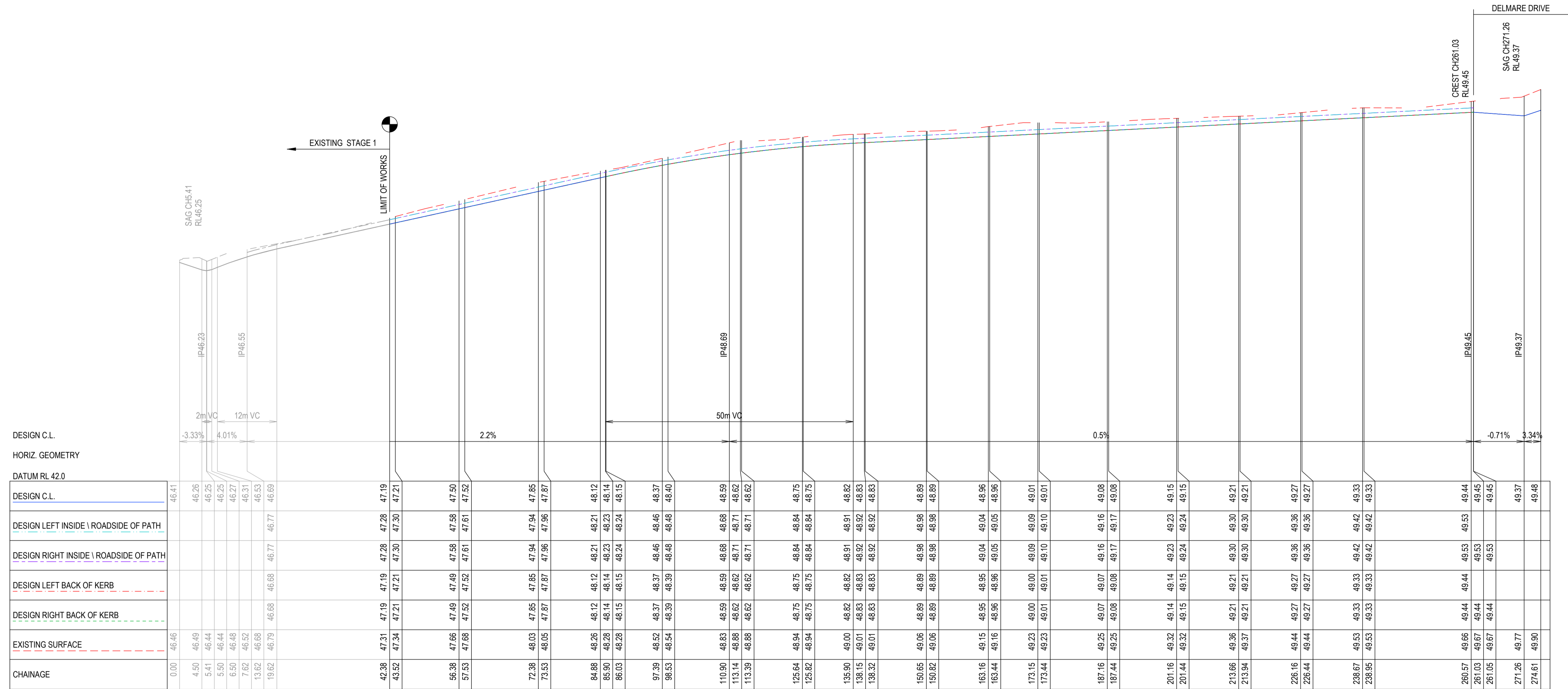
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 PLOT DATE: 31/10/2024 FILE: C:\112\DATA\TOMKINSON\ESTUARY II\AS CONSTRUCTED\A4041D-RD500.DWG



**AS-CONSTRUCTED SIGNATURES**

 31/10/24  
 SIGN DATE  
**TOMKINSON GROUP**  
 10/6-8 BOSTON RD, TORQUAY 3228

 31/10/24  
 SIGN DATE  
**DRAPER'S CIVIL CONTRACTING PTY LTD**  
 54-56 LEATHER ST, BREAKWATER VIC 3219



AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	REVISION
DES	DWG CHK DATE

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SCALE H 1:500 V 1:50 @ A1, H 1:1000 V 1:100 @ A3  
 LENGTHS ARE IN METRES

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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD LONGITUDINAL SECTIONS ZALE STREET**

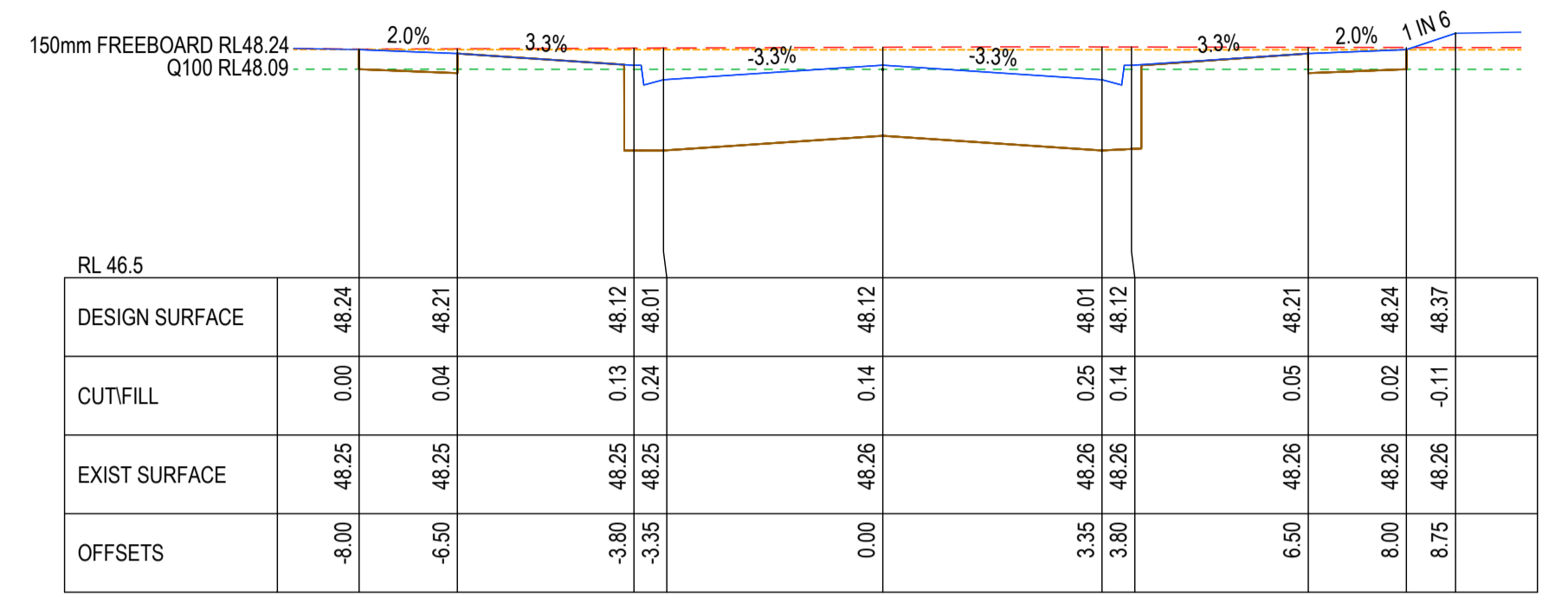
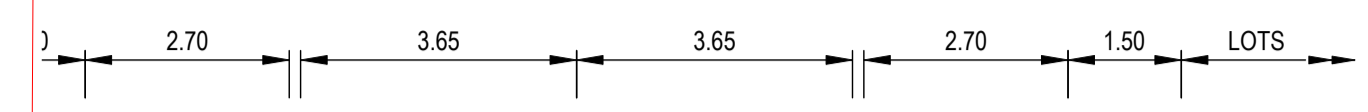
AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: REV: **AS CONSTRUCTED** A4041D-RD600 AC1

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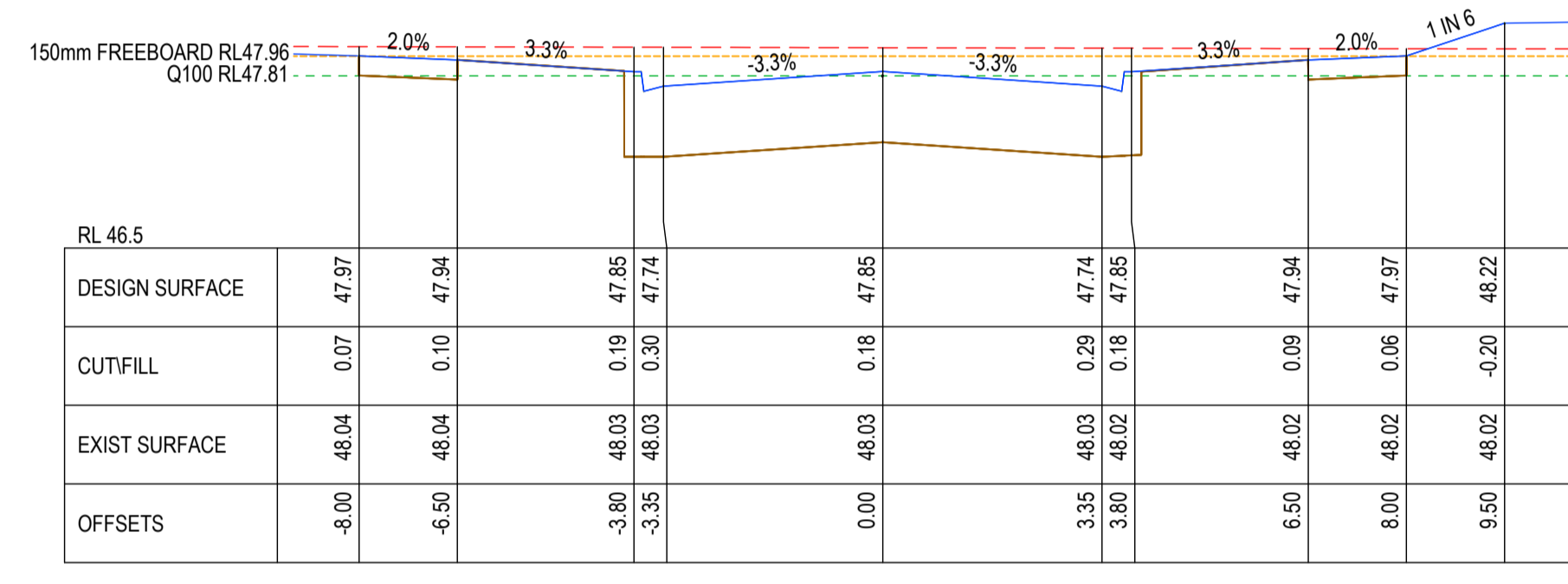


**AS-CONSTRUCTED SIGNATURES**

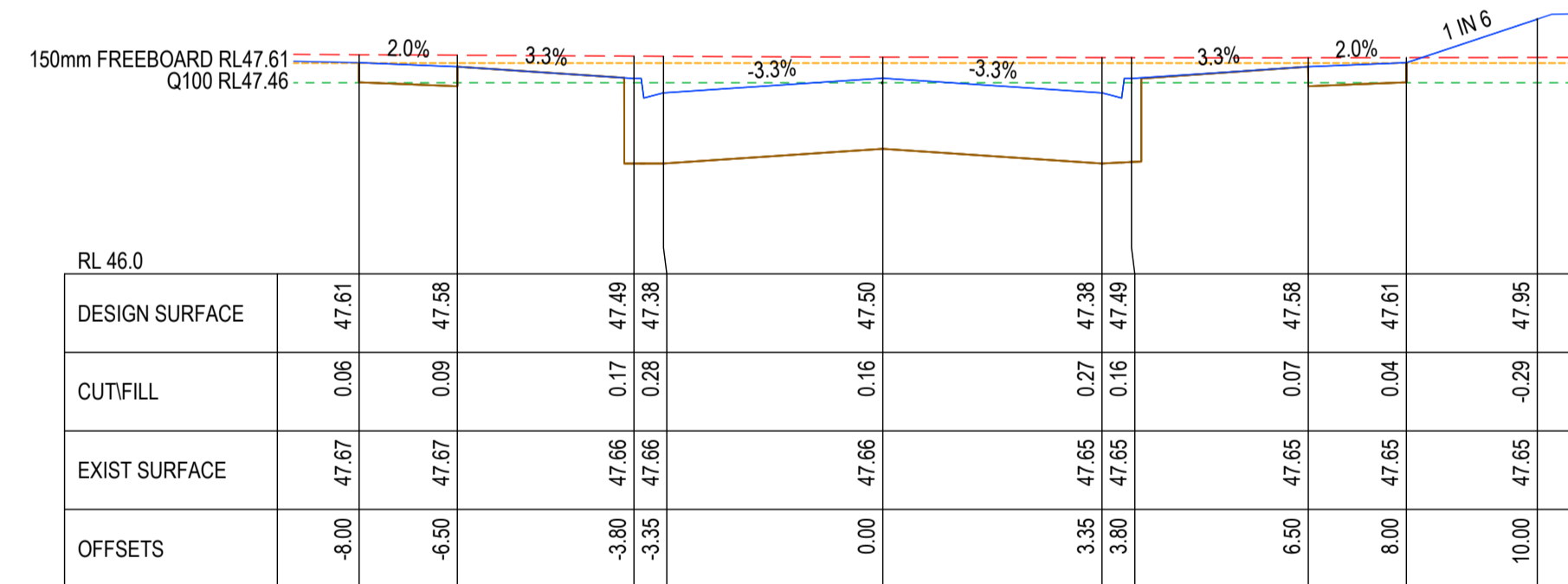
SIGN: *JG* DATE: 31/10/24  
 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228  
 Sidney Jhanister  
 SIGN: DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219



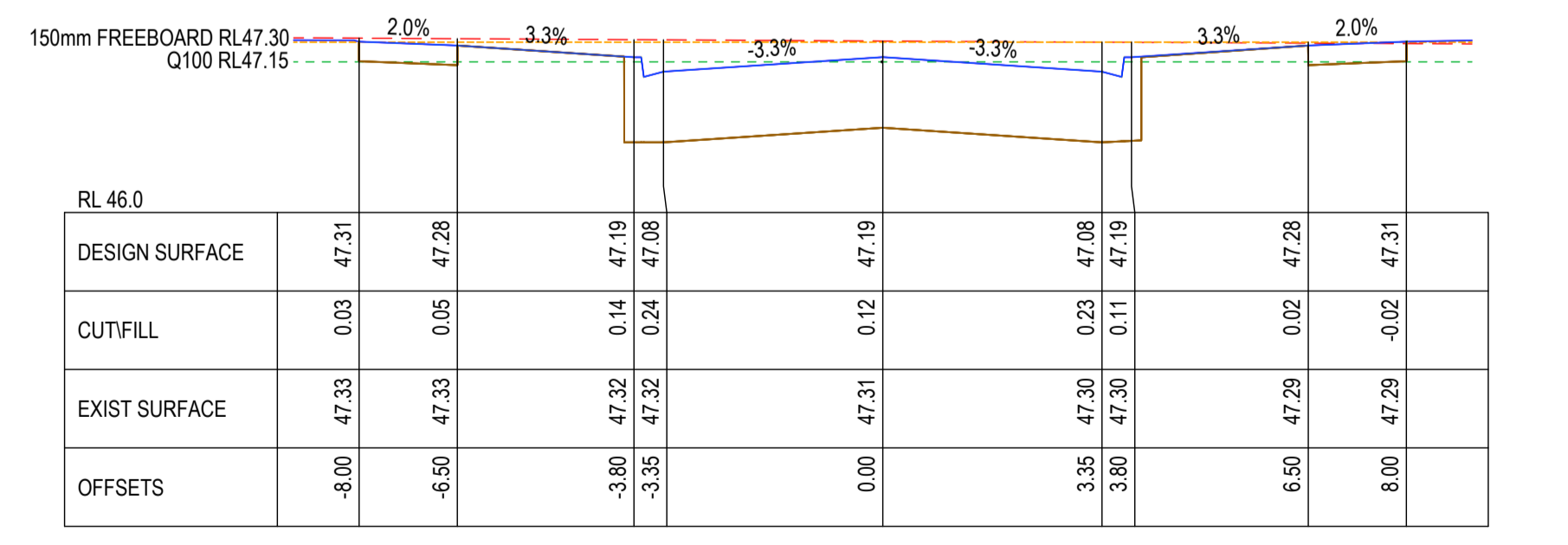
CH 84.88



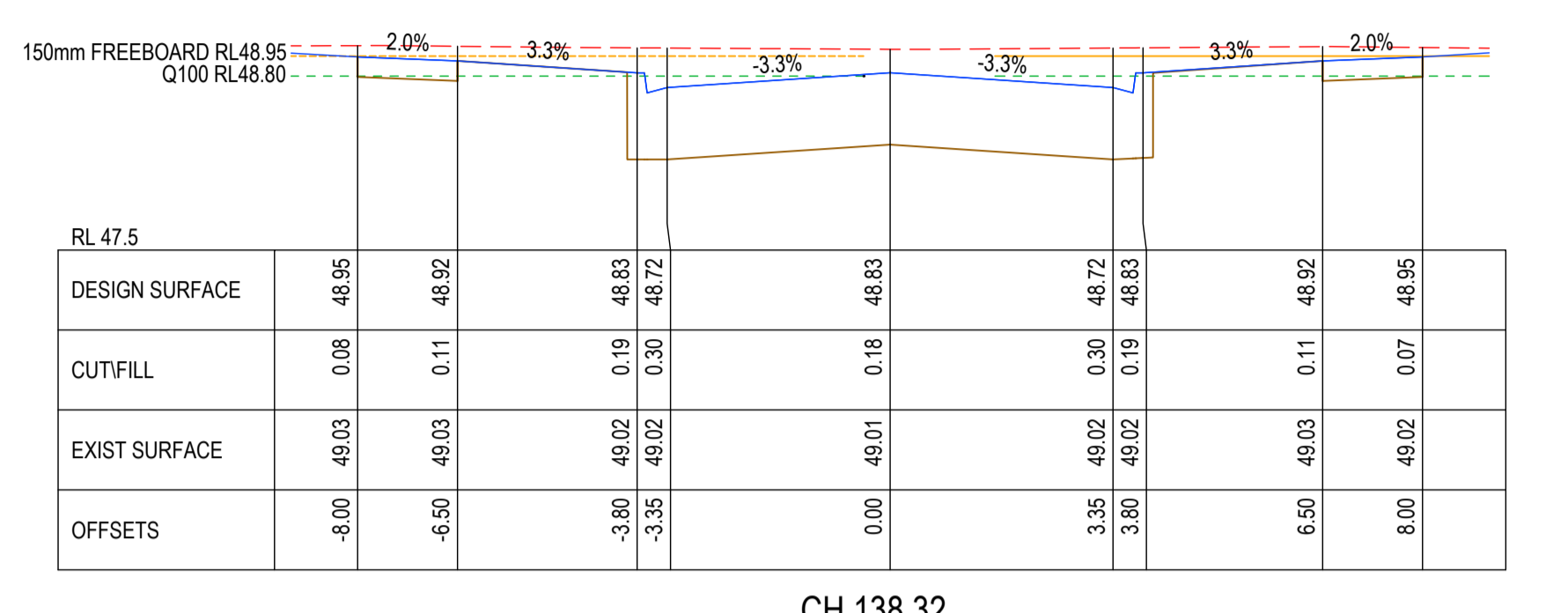
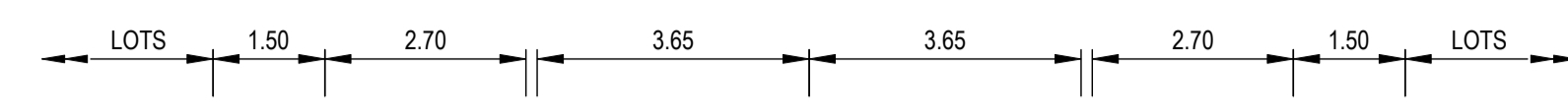
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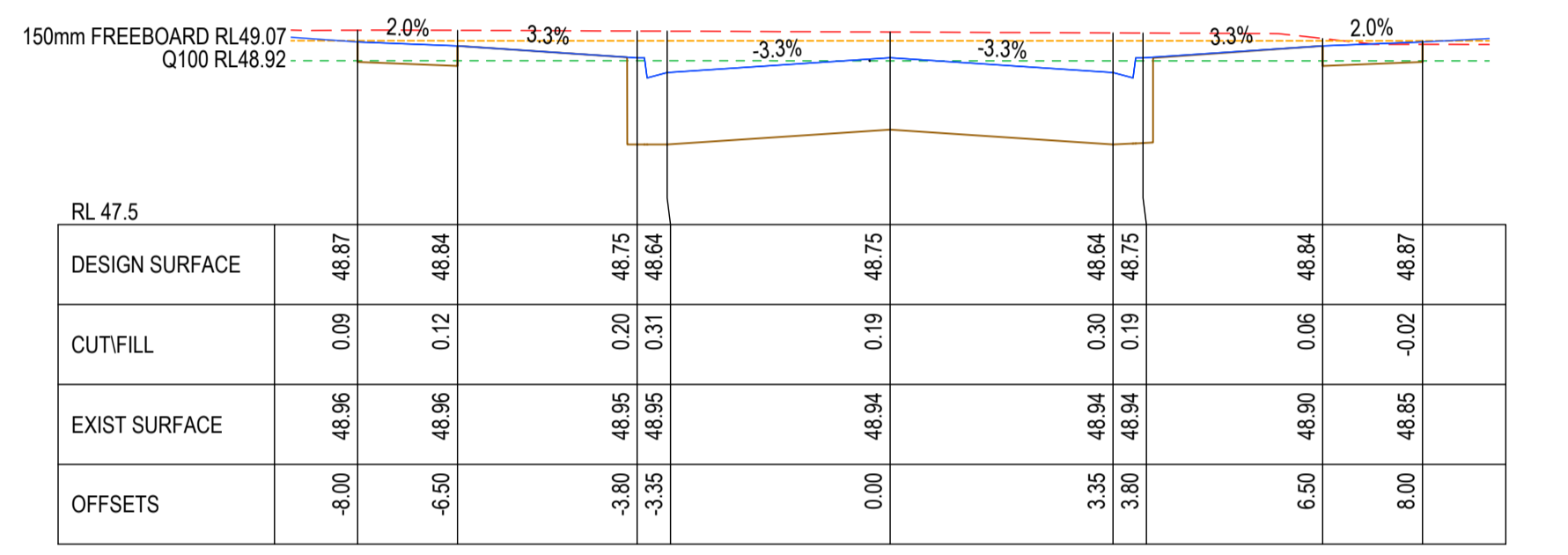
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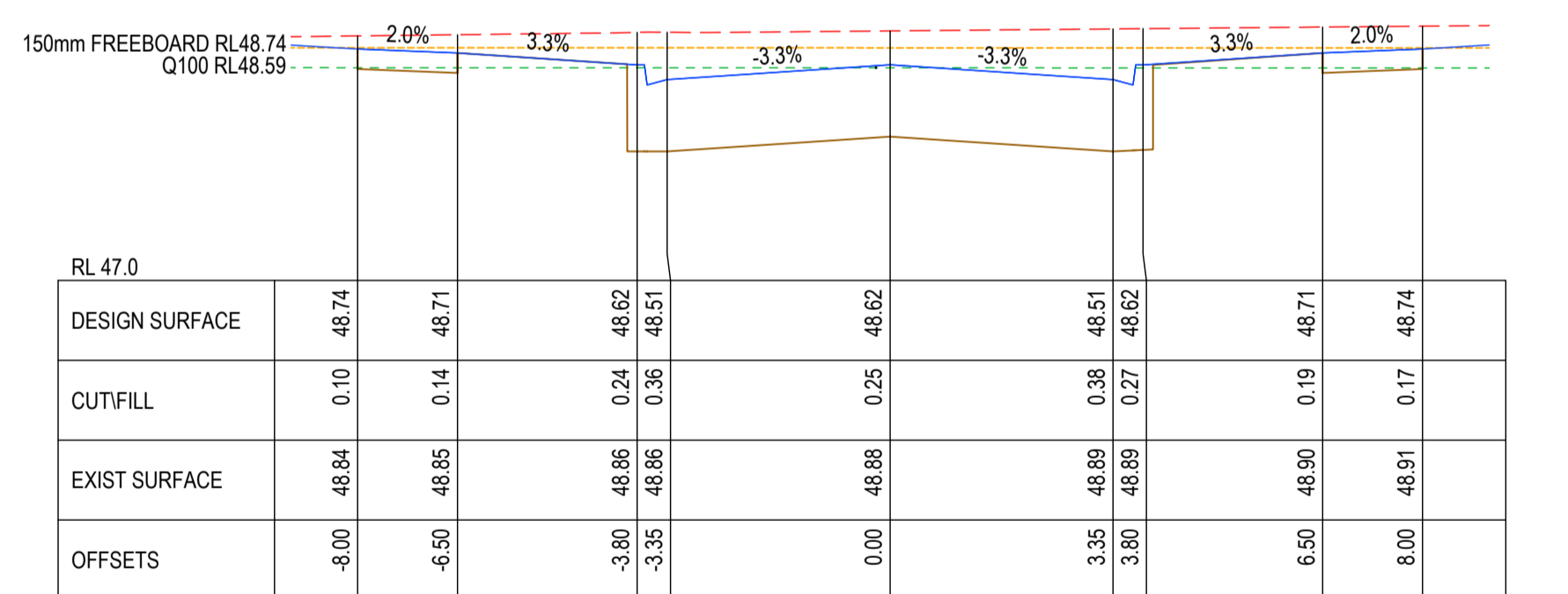
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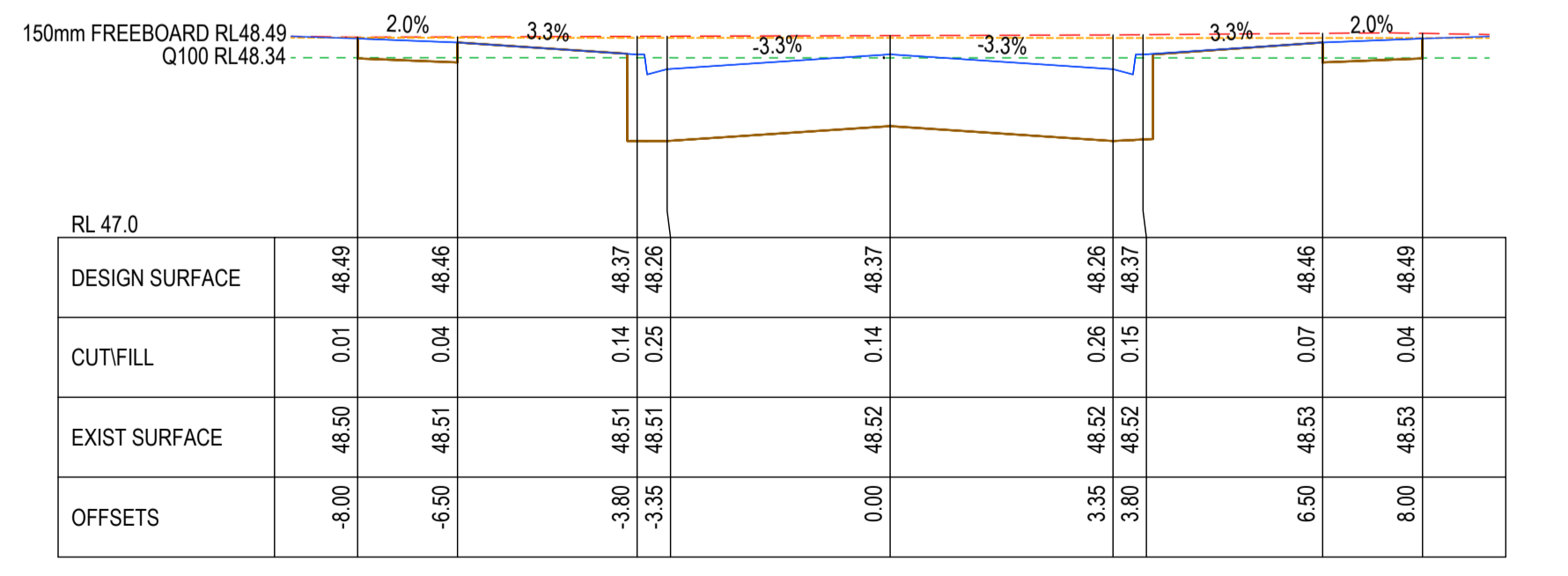
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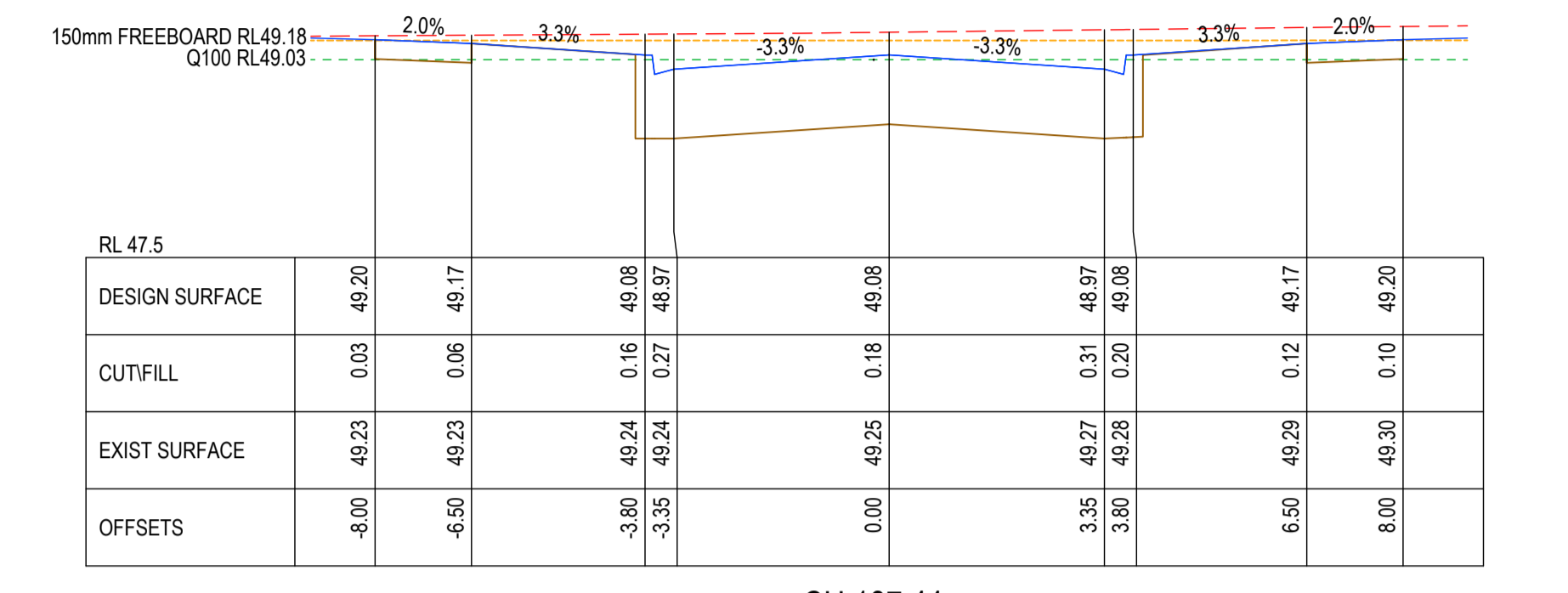
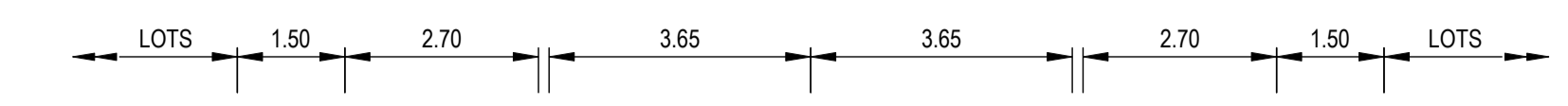
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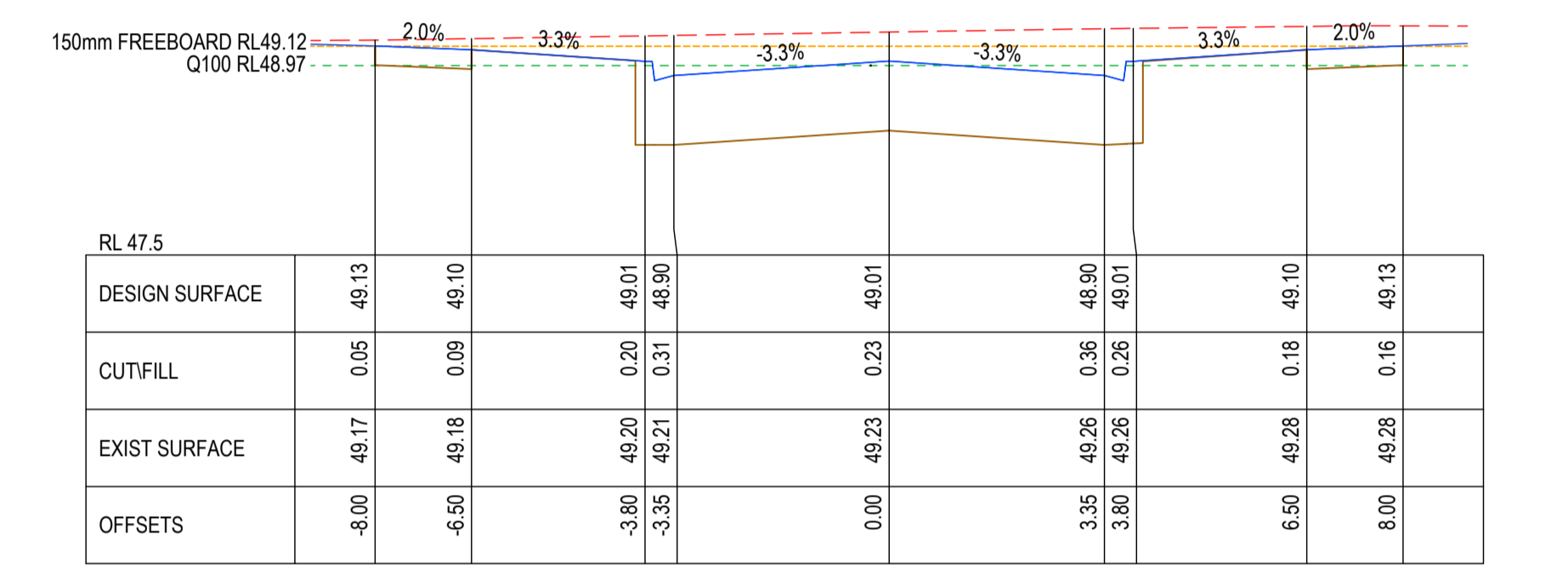
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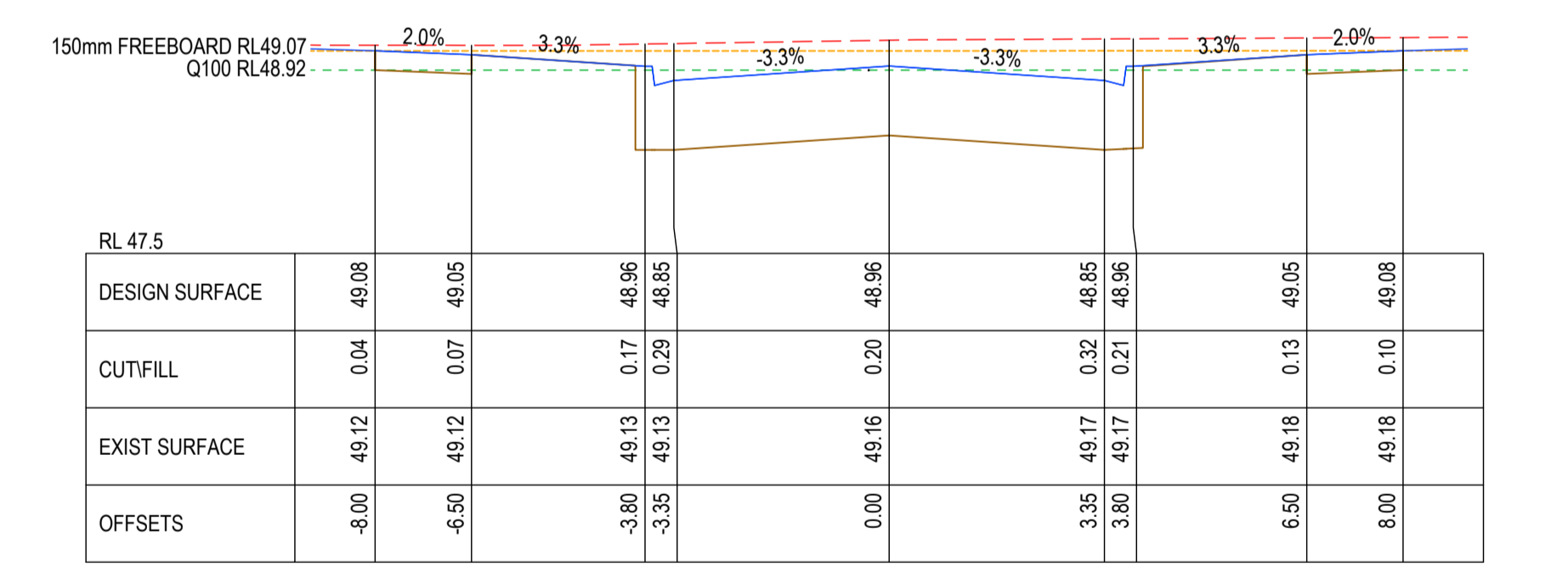
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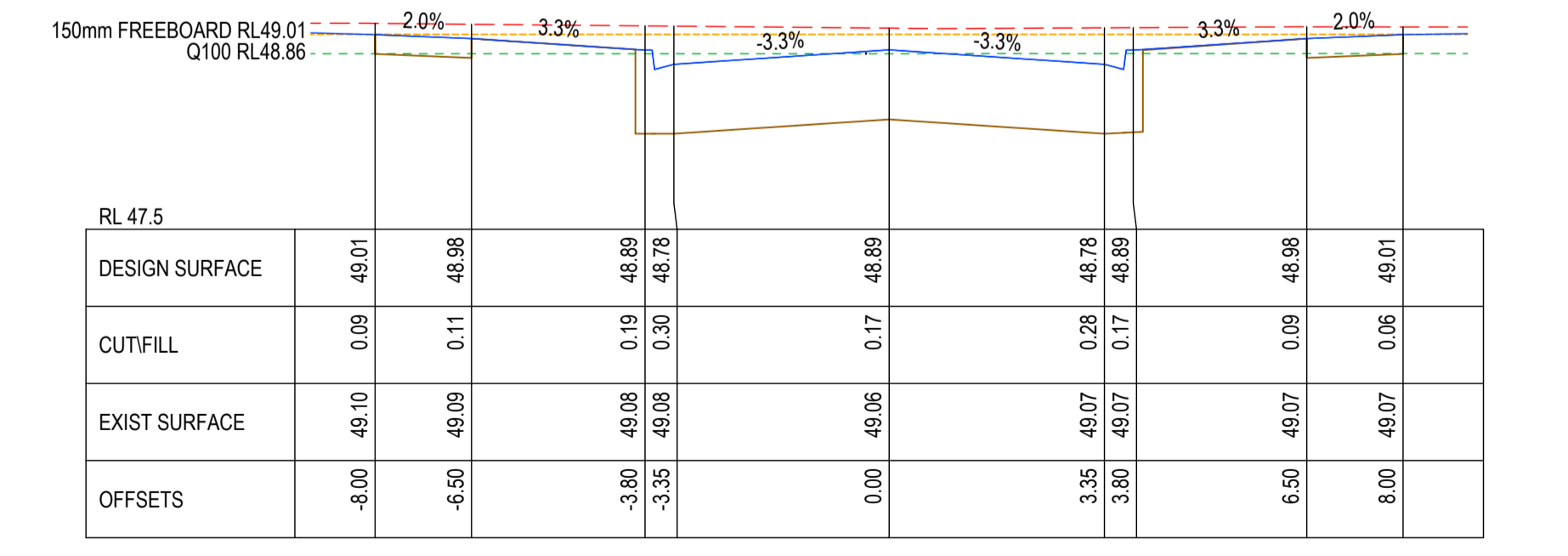
CH 187.44



CH 173.44



CH 163.44



CH 150.82

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE

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SCALE H 1:100 V 1:50 @ A1, H 1:200 V 1:100 @ A3  
 H 1 0 1 2 3 4 5 M  
 V 0.5 0 0.5 1 1.5 2.0 2.5 V  
 LENGTHS ARE IN METRES

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**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS ZALE STREET**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: A4041D-RD601

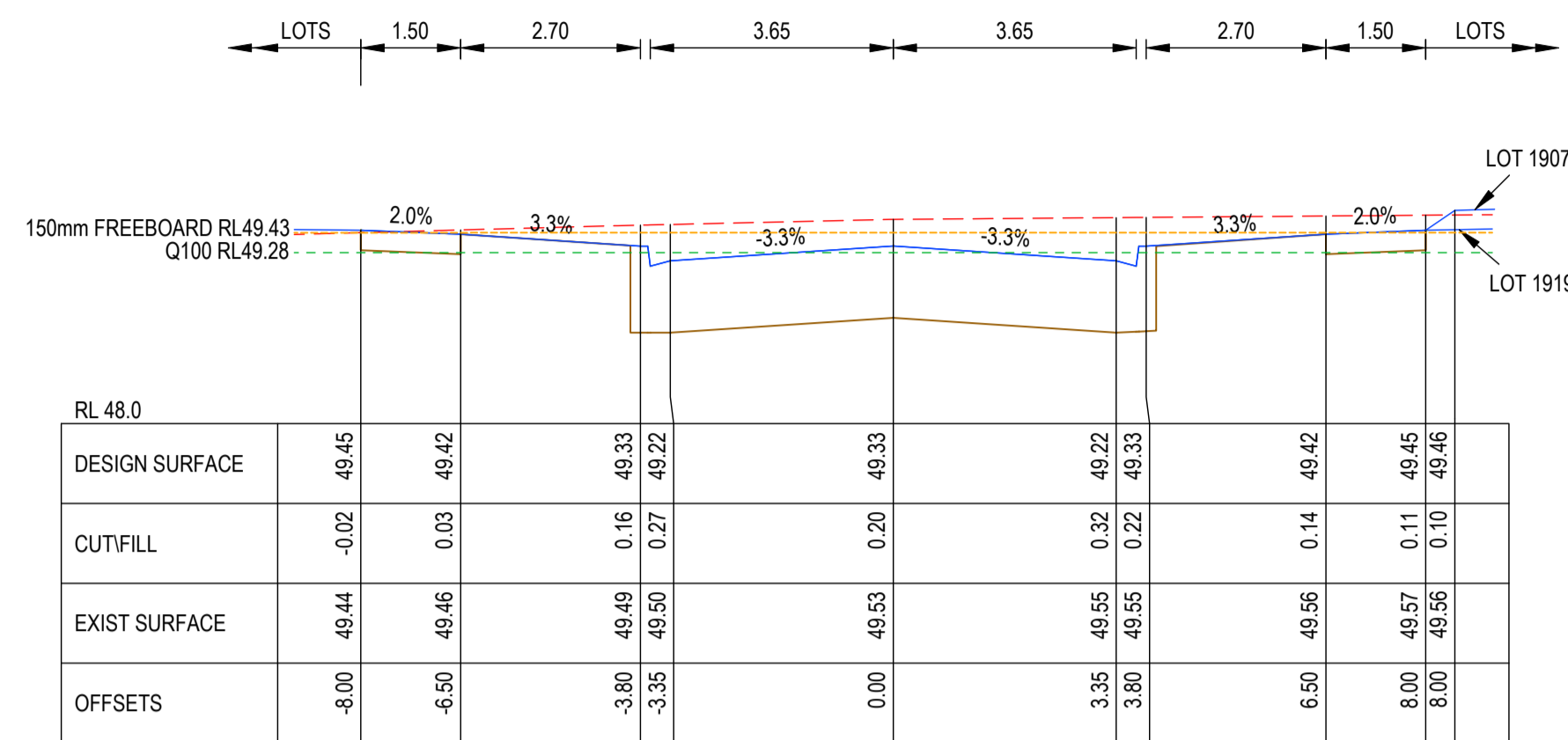
**AS CONSTRUCTED** A4041D-RD601

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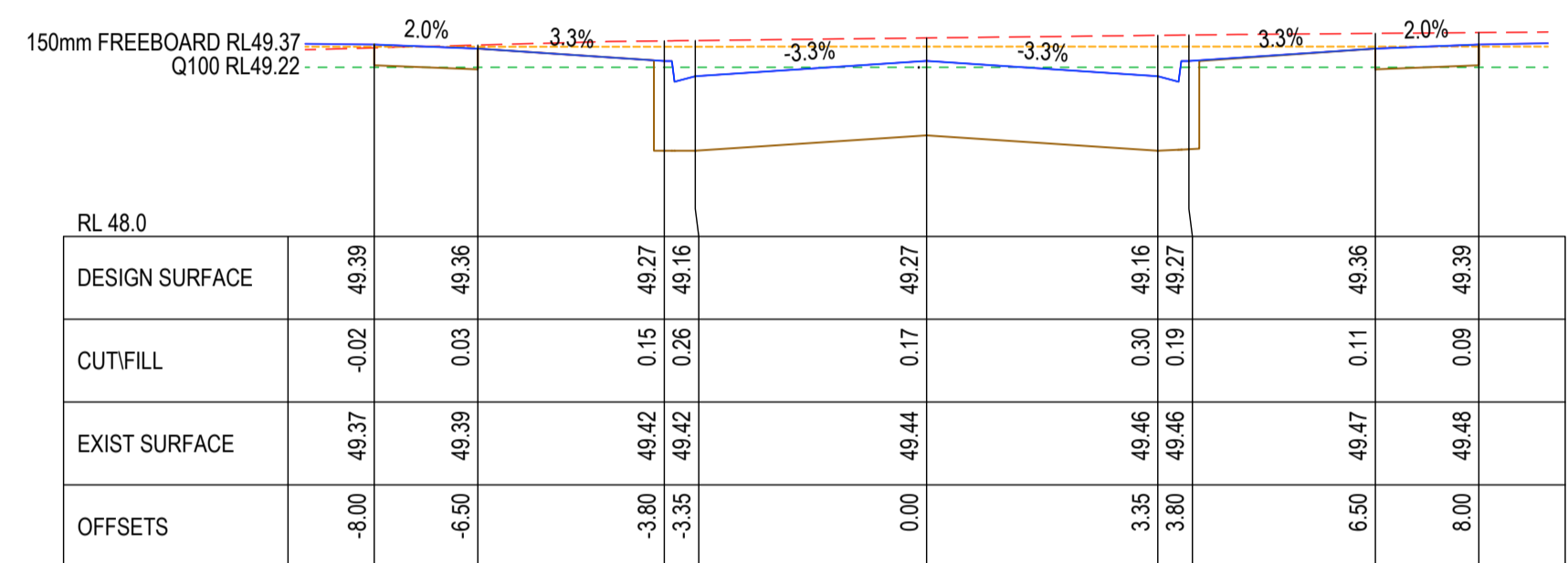


**AS-CONSTRUCTED SIGNATURES**

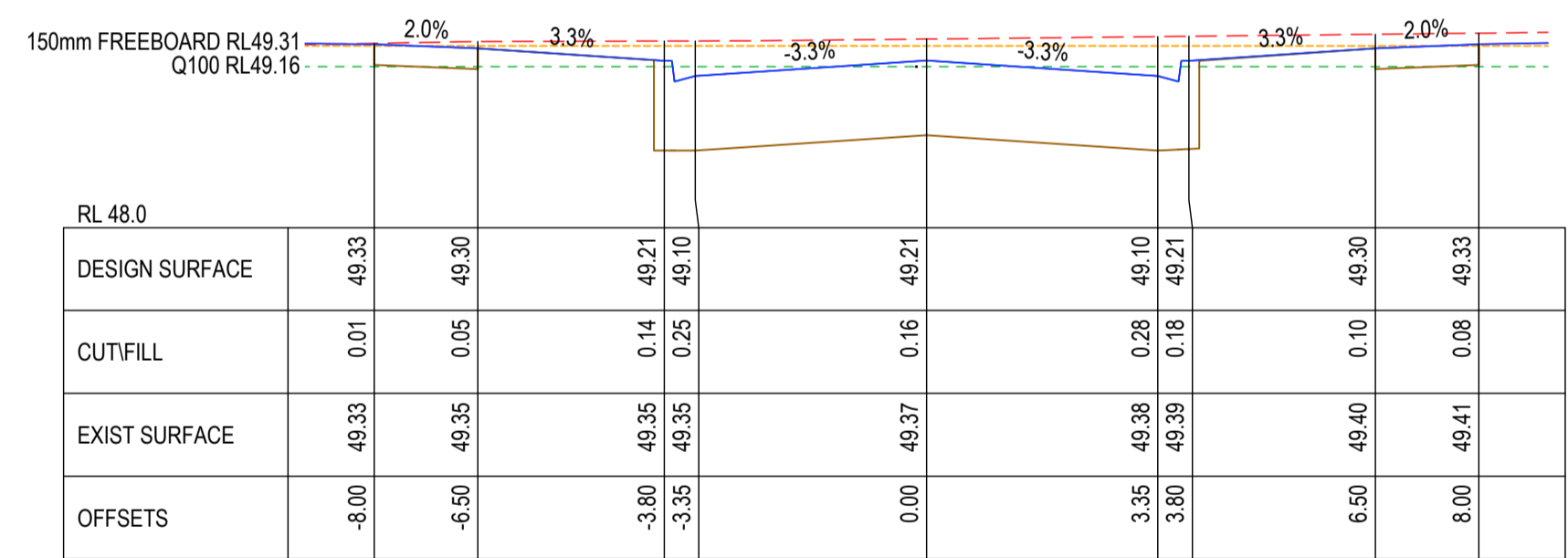
 31/10/24  
 SIGN DATE  
**TOMKINSON GROUP**  
 10/6-8 BOSTON RD, TORQUAY 3228  
 SIGN DATE  
*Sidney Ghanister* 31/10/24  
**DRAPER'S CIVIL CONTRACTING PTY LTD**  
 54-56 LEATHER ST, BREAKWATER VIC 3219



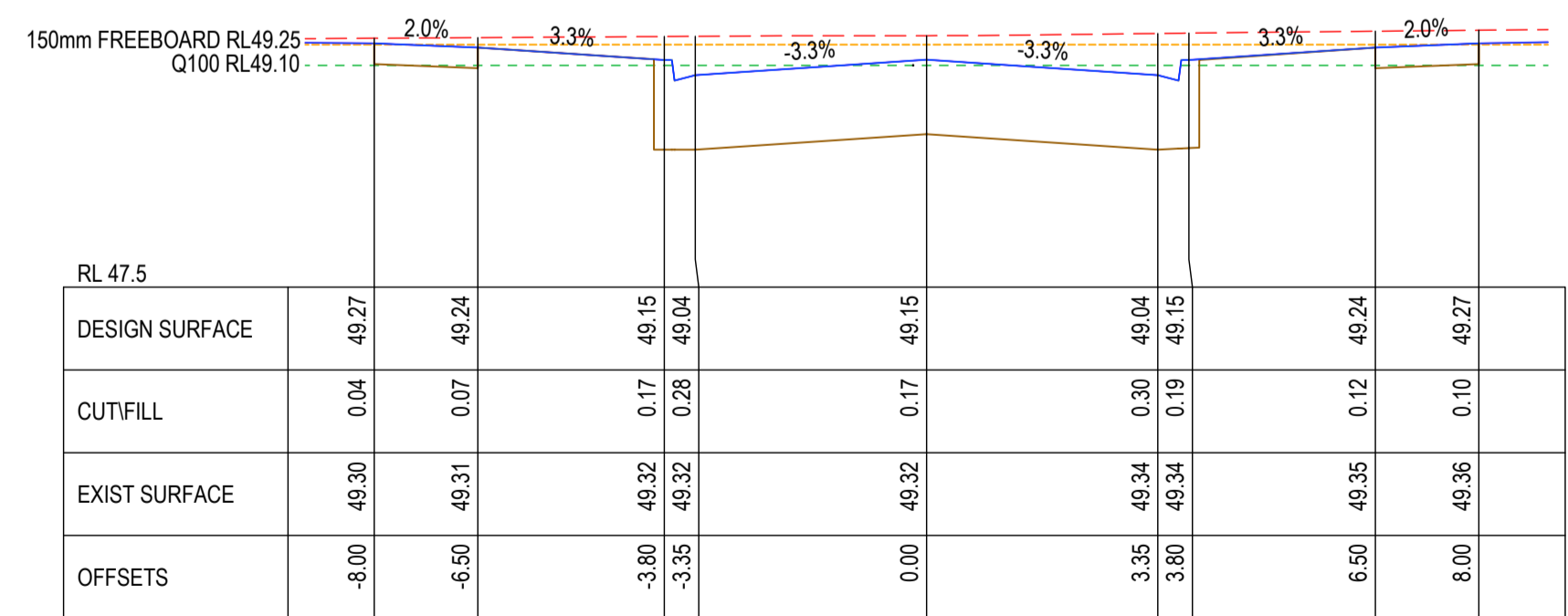
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CH 226.44



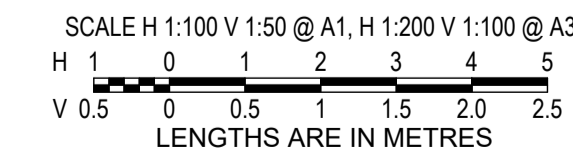
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0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23				
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23				
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23				
A PRELIMINARY ISSUE	NC PW MM 05/04/23				
REV	REVISION	DES	DWG	CHK	DATE

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**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS ZALE STREET**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: REV: AS CONSTRUCTED A4041D-RD602 AC1

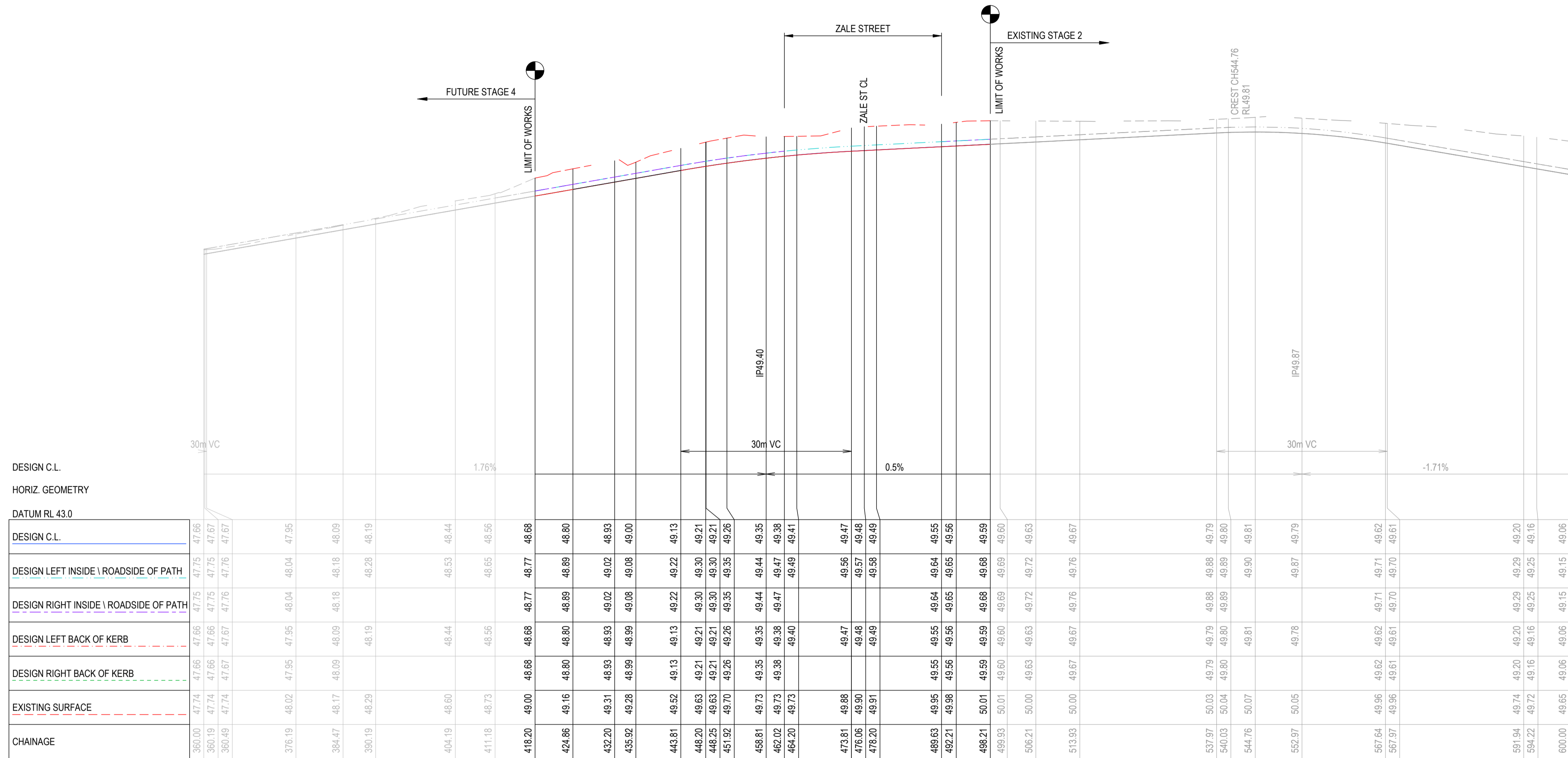
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**AS-CONSTRUCTED SIGNATURES**

SIGN:  DATE: 31/10/24  
 TOMKINSON GROUP  
 106-8 BOSTON RD, TORQUAY 3228

SIGN: *Sidney Glenister* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219



AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23

REV	REVISION	DES	DWG	CHK	DATE

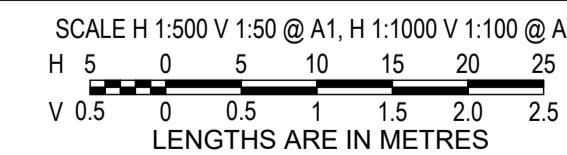


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 LEOPOLD



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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD LONGITUDINAL SECTIONS DELMARE DRIVE**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONSTRUCTED A4041D-RD610

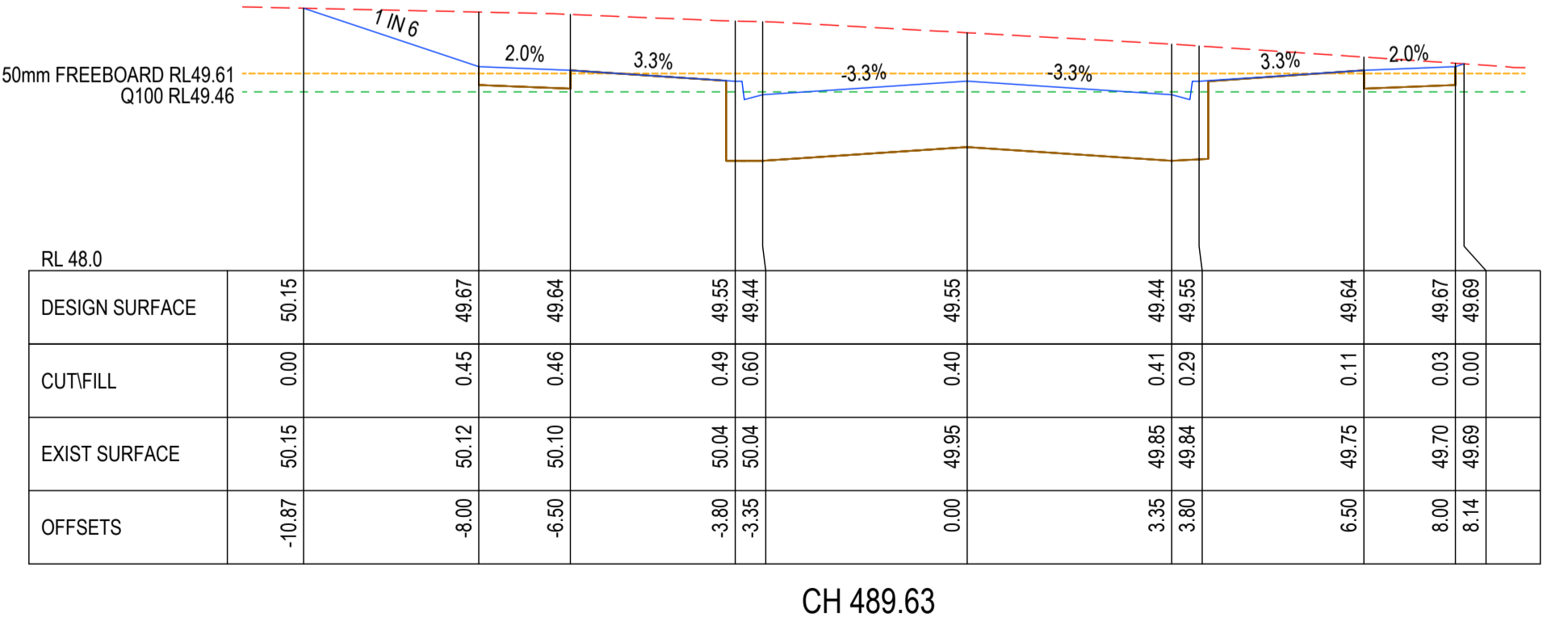
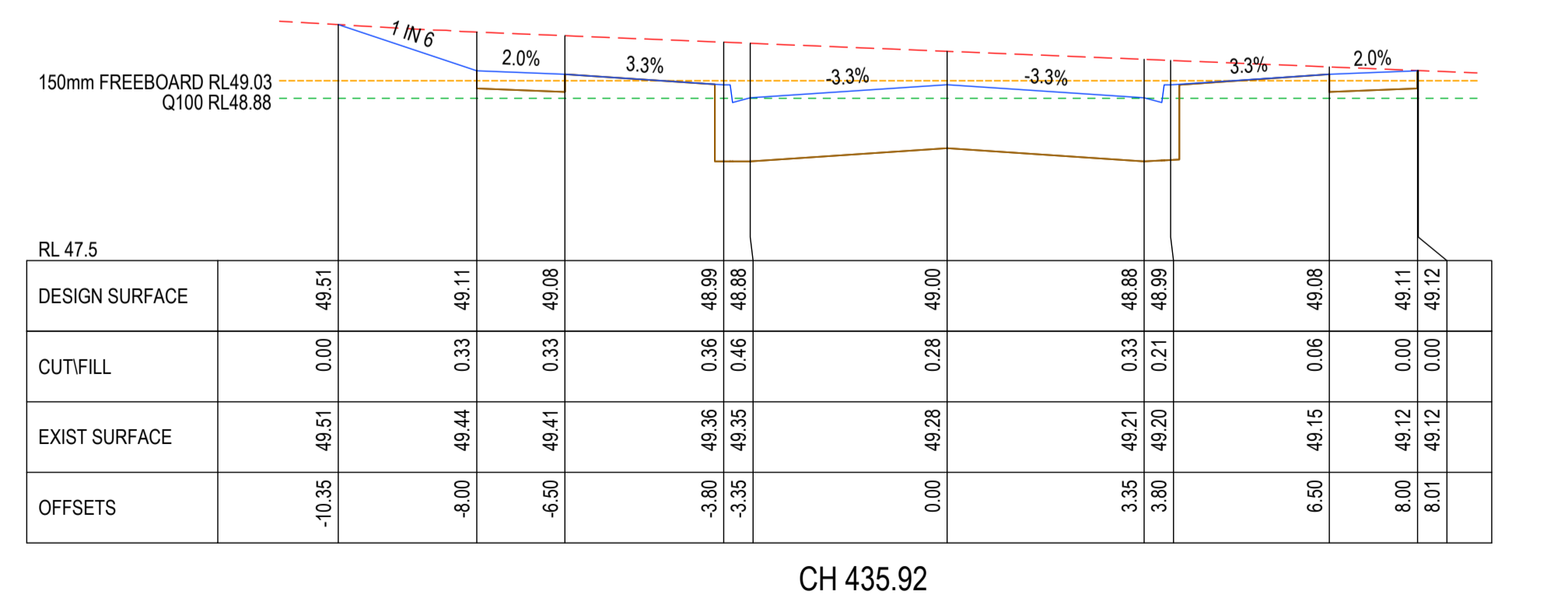
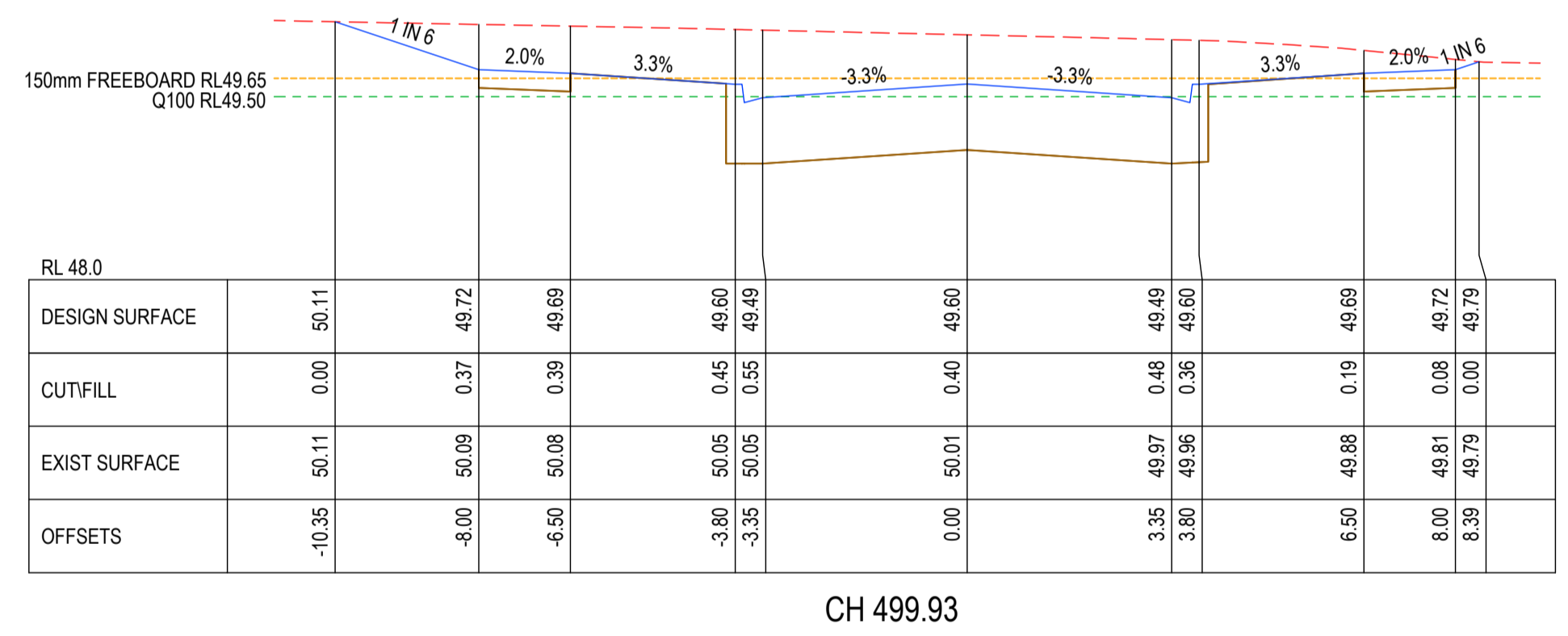
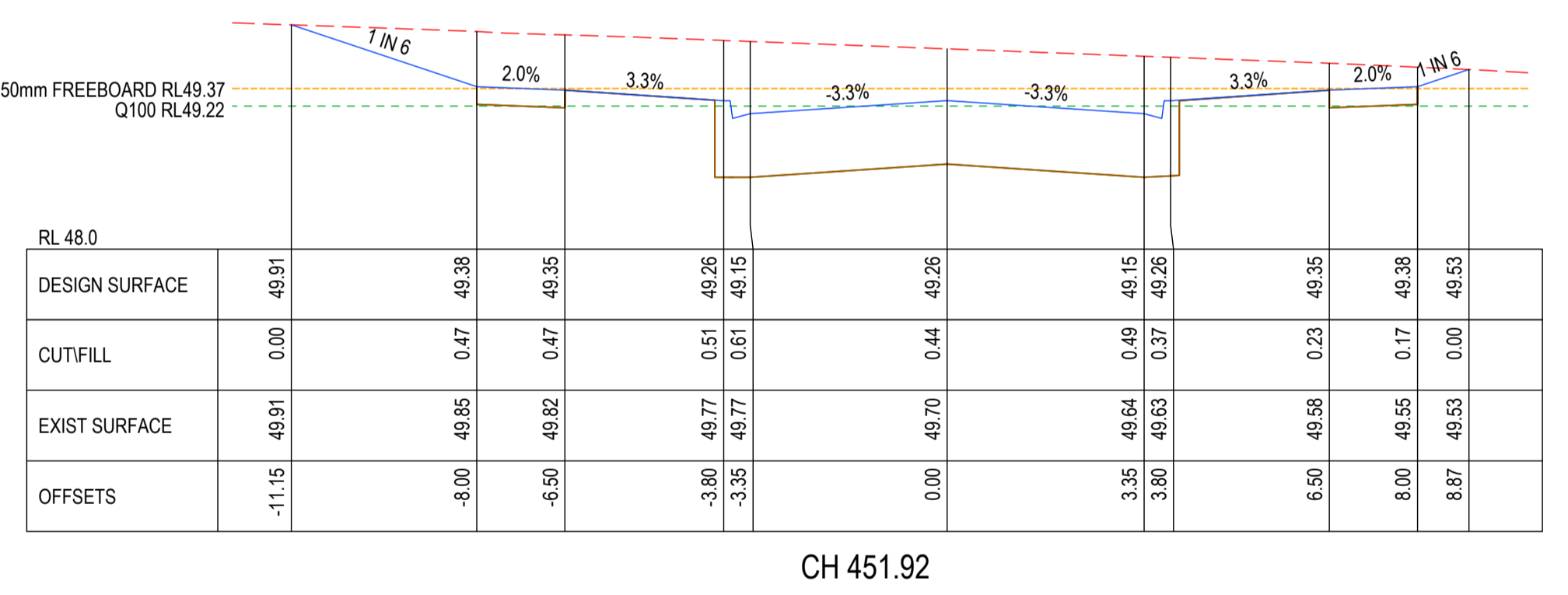
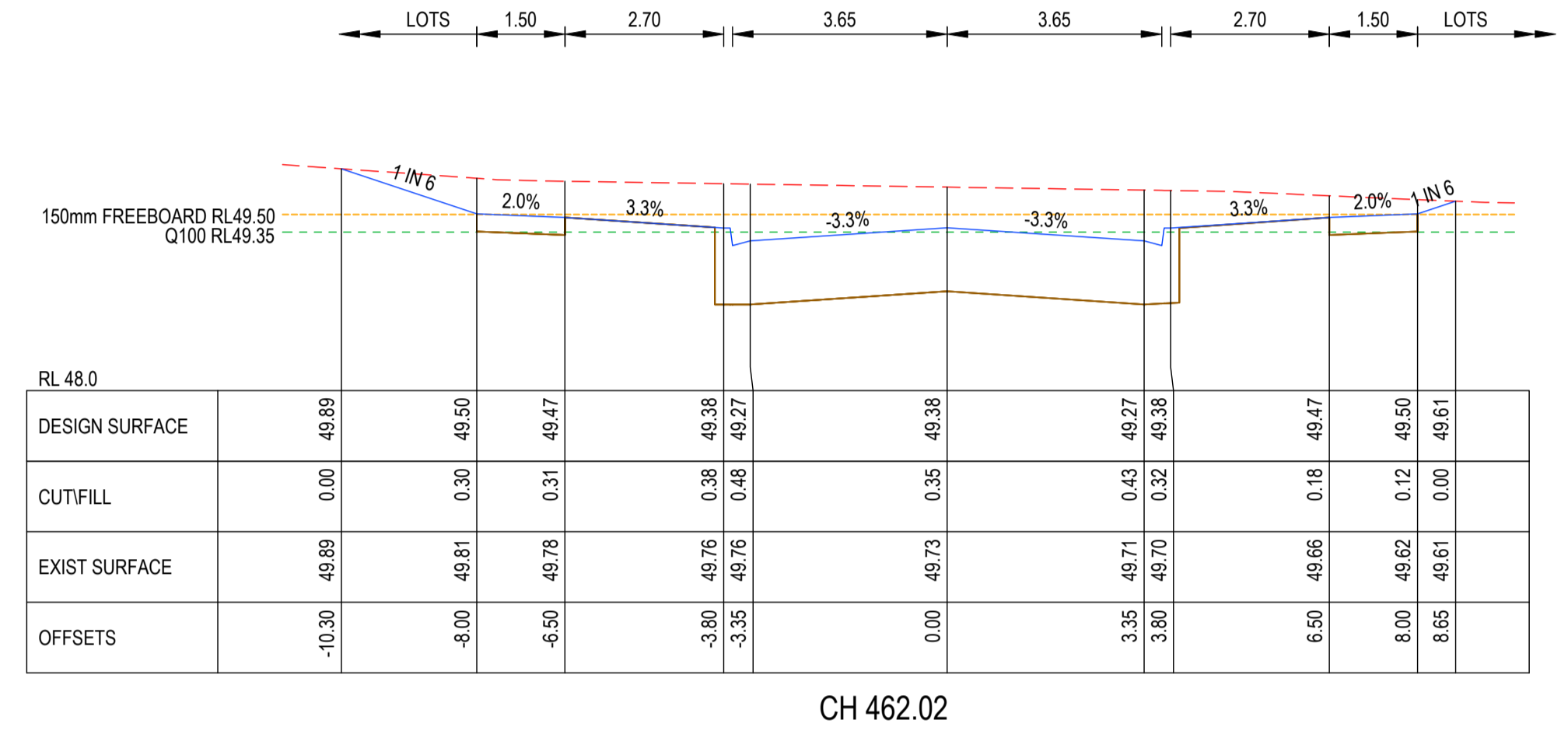
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**AS-CONSTRUCTED SIGNATURES**

SIGN: *[Signature]* DATE: 31/10/24  
**TOMKINSON GROUP**  
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
**DRAPER'S CIVIL CONTRACTING PTY LTD**  
 54-56 LEATHER ST, BREAKWATER VIC 3219



AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE
	REVISION

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SCALE H 1:100 V 1:50 @ A1, H 1:200 V 1:100 @ A3  
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 V 0.5 0 0.5 1 1.5 2.0 2.5 V  
 LENGTHS ARE IN METRES

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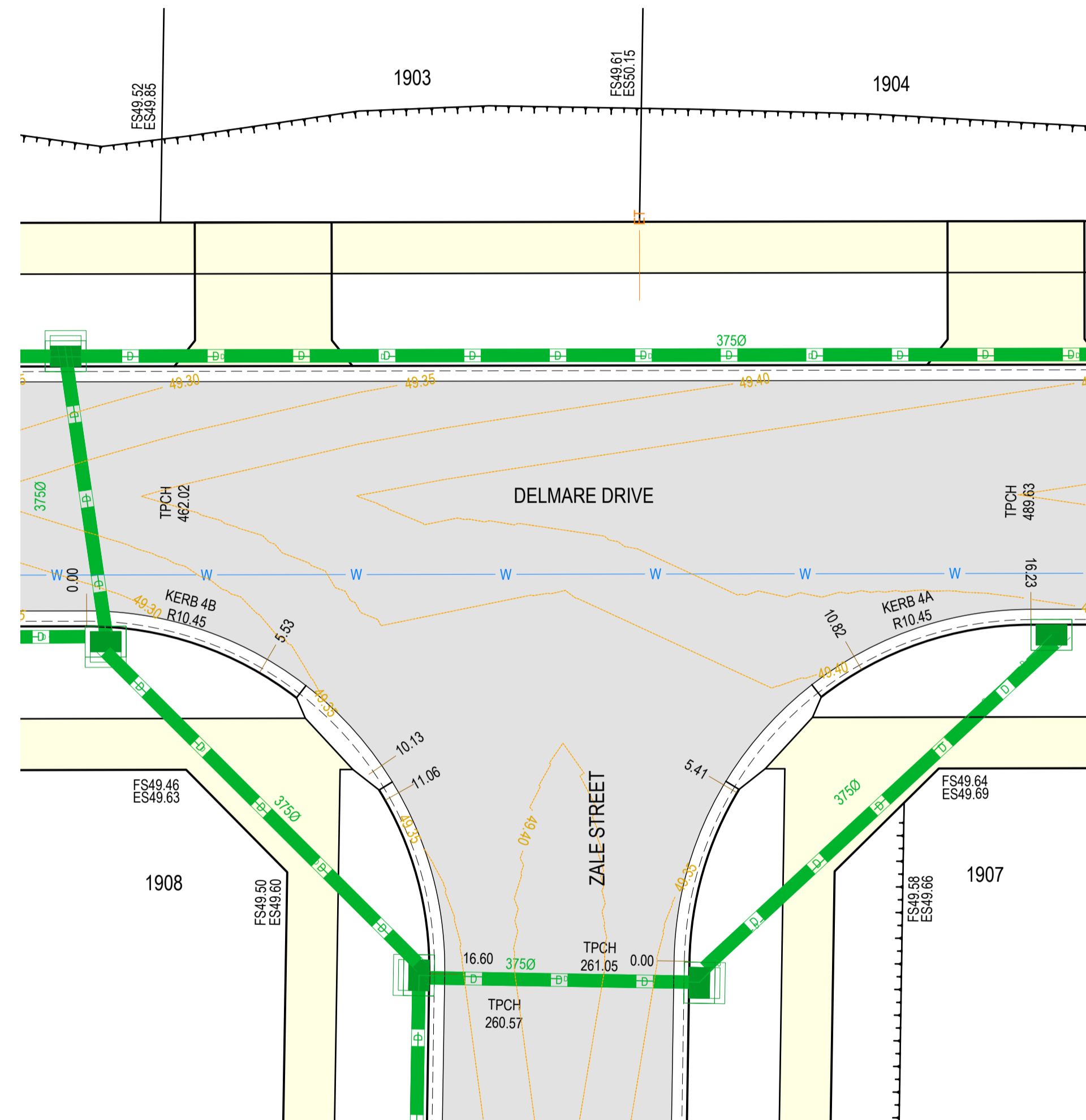
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**ROAD CROSS SECTIONS DELMARE DRIVE**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONTRUCTED A4041D-RD611

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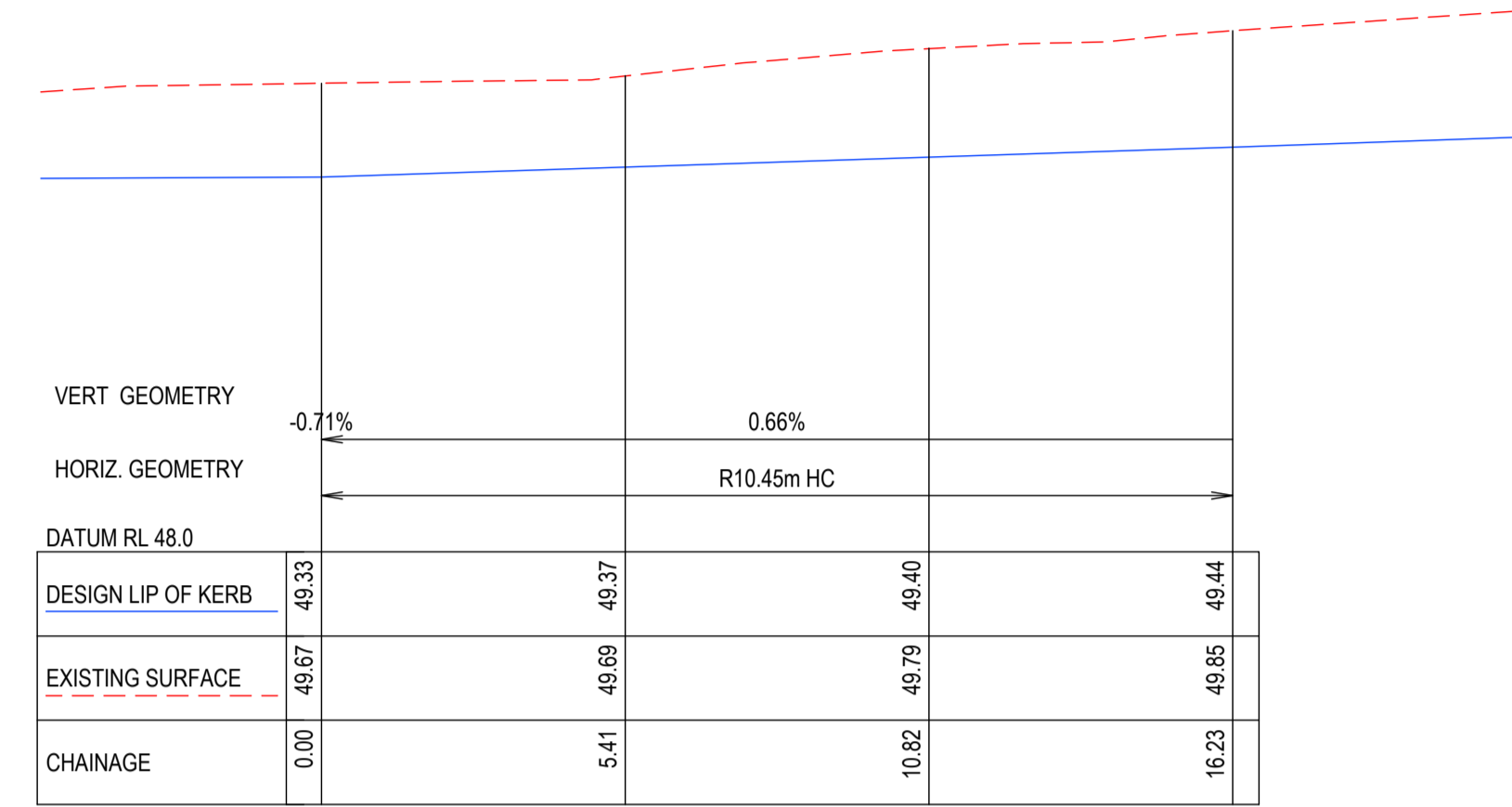


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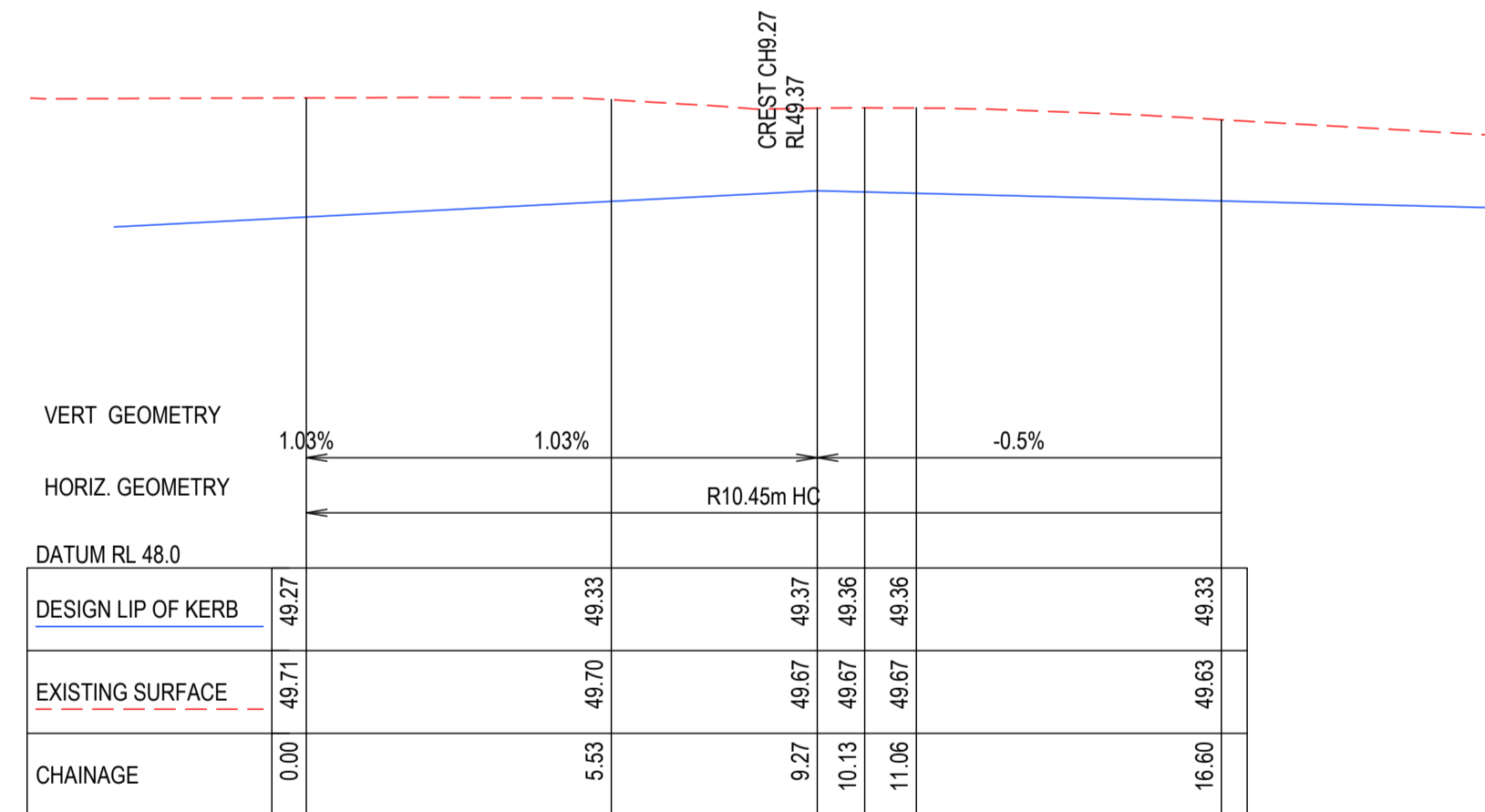
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 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228  
 Sidney Glanister 31/10/24  
 SIGN DATE  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219



**INTERSECTION DETAIL**  
 SCALE 1:125 @ A1, 1:250 @ A3  
 1.25 0 1.25 2.5 3.75 5 6.25  
 LENGTHS ARE IN METRES



KERB 4A



SCALE H 1:125 V 1:25 @ A1, H 1:250 V 1:50 @ A3  
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 LENGTHS ARE IN METRES

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS.	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE



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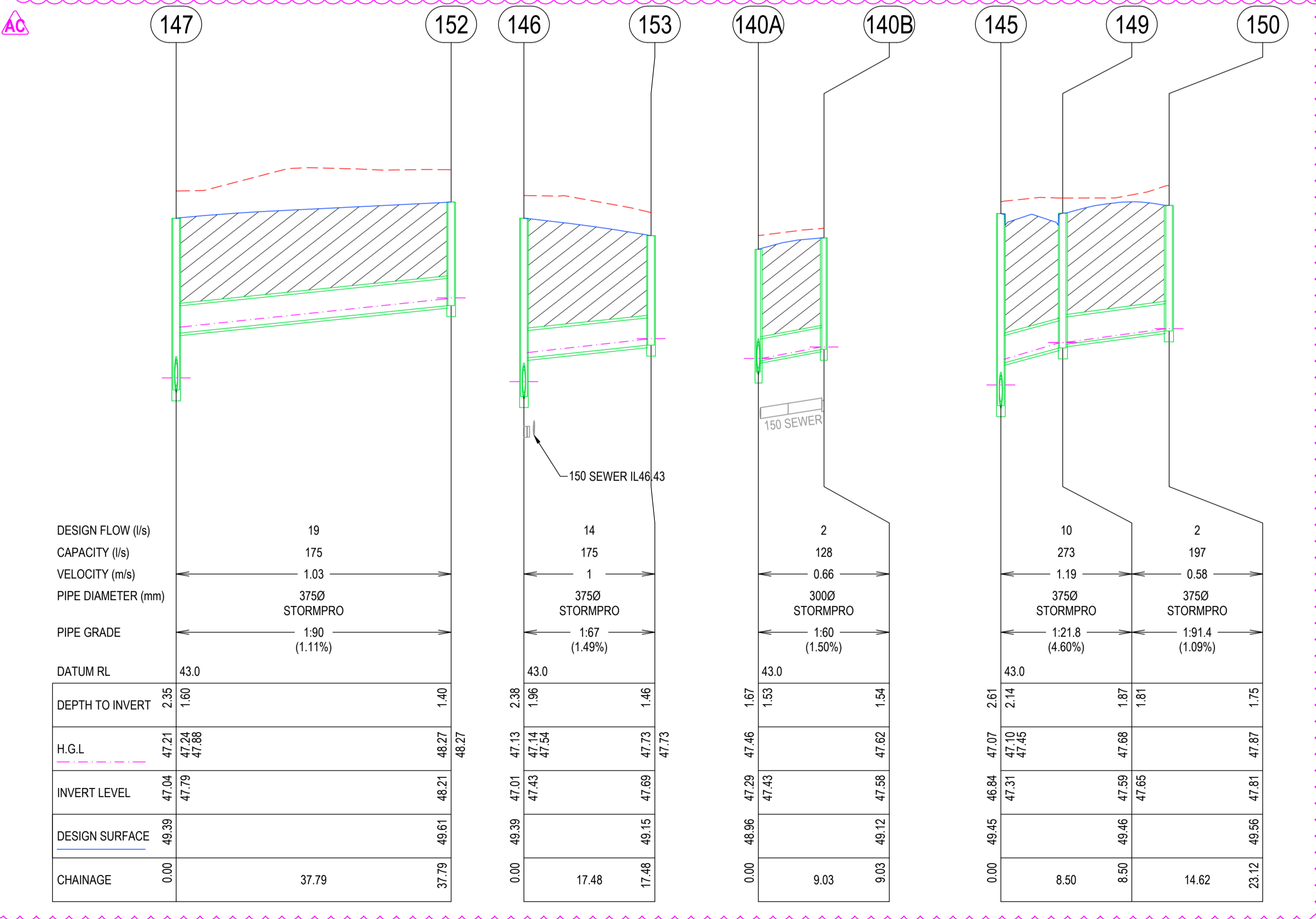
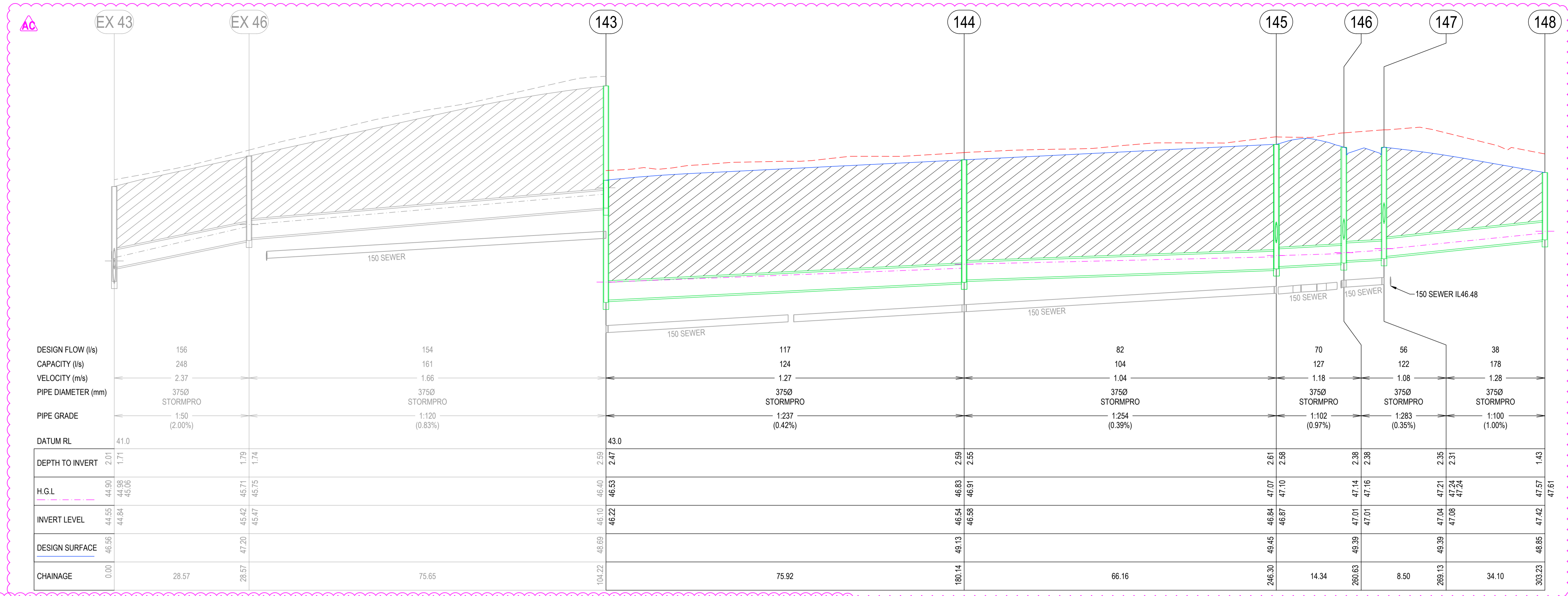
SCALE AS SHOWN  
 LENGTHS ARE IN METRES



**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**INTERSECTION DETAILS**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: REV:  
**AS CONSTRUCTED** A4041D-RD700 AC1

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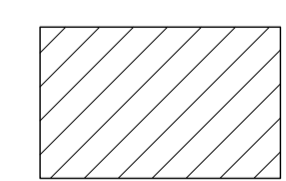




**AS-CONSTRUCTED SIGNATURES**

SIGN: *[Signature]* DATE: 31/10/24  
 TOMKINSON GROUP  
 106-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

 DENOTES FULL DEPTH BACKFILL AS PER ID10 STD 310

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	NC	SP	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D	RESERVE DRAIN, P140A AND P140B ADDED	NC	MK	MM	27/10/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23

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*estuary II*  
 LEOPOLD

SCALE H 1:500 V 1:50 @ A1, H 1:1000 V 1:100 @ A3  
 5 0 5 10 15 20 25  
 LENGTHS ARE IN METRES

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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONGITUDINAL SECTIONS**

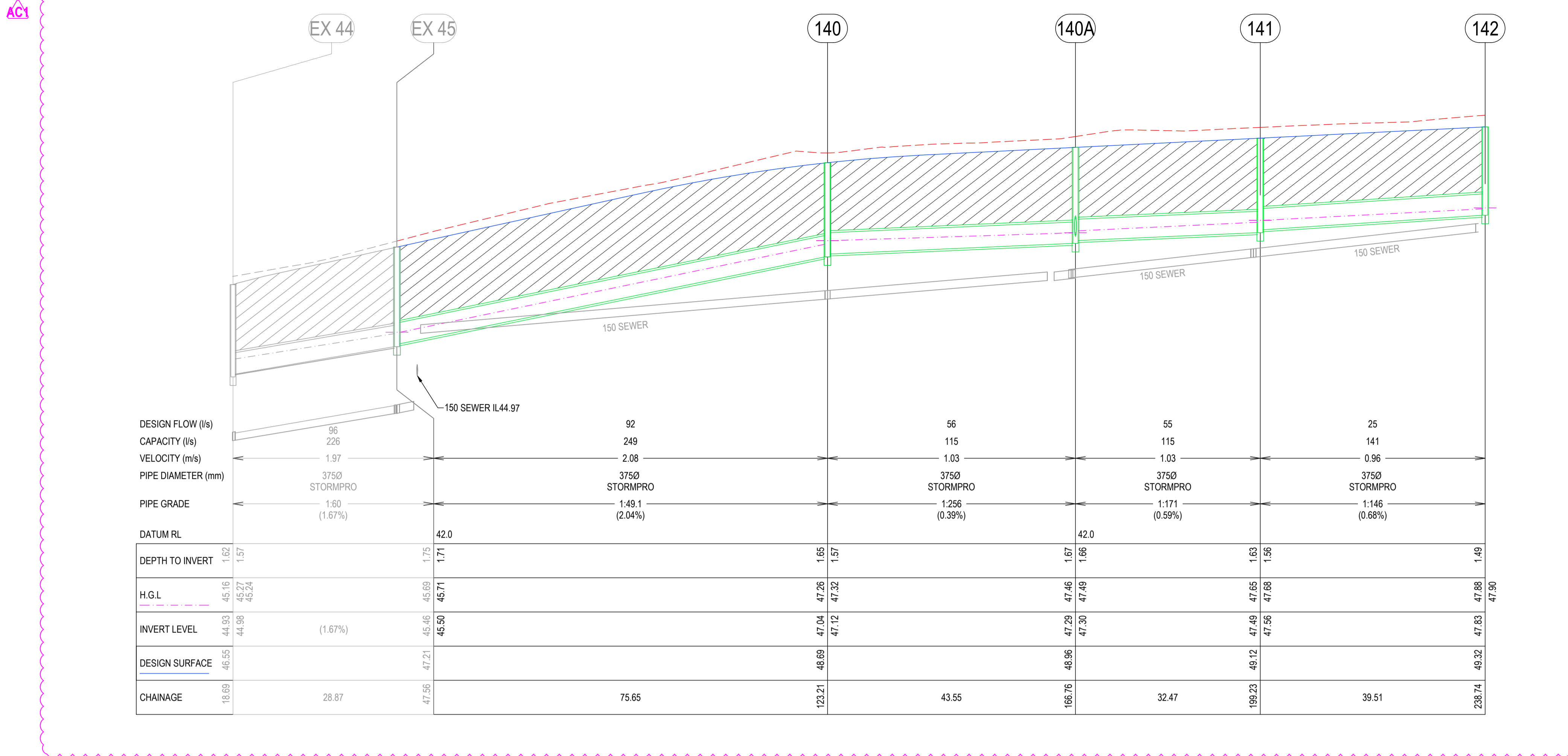
AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: **AS CONSTRUCTED A4041D-RD800**

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 PLOT DATE: 31/10/2024 FILE: C:\1122\DATA\TOMKINSON\2024\10\10\A4041D-RD800.DWG



DENOTES FULL DEPTH BACKFILL AS PER IDM STD 310


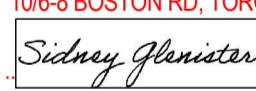


AC1

DRAINAGE PIT SCHEDULE												
PIT	LOCATION			INTERNAL	INLET	OUTLET	PIT		REMARKS			
PIT NAME	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	
EX43	SEP	277996.969	5768864.43	900	900	375	44.845	450	44.545	46.559	2.014	CONNECT TO EX NTH PIT WALL & MAKE GOOD
						375	44.845			46.559	2.014	CONNECT TO EX WEST PIT WALL & MAKE GOOD
EX44	SEP	278005.221	5768863.145	600	900	375	44.979	375	44.929	46.55	1.622	CONNECT TO EX NTH PIT WALL & MAKE GOOD
EX45	SEP	278009.229	5768891.738	600	900	375	45.50	375	45.46	47.209	1.75	CONNECT TO EX NTH PIT WALL & MAKE GOOD
EX46	SEP	278001.084	5768892.704	600	900	375	45.47	375	45.416	47.205	1.788	CONNECT TO EX NTH PIT WALL & MAKE GOOD
140	SEP	278019.731	5768966.656	600	900	375	47.12	375	47.04	48.699	1.65	REFER TO IDM SD430
140A	JP	278025.777	5769009.782	600	900	375	47.30	375	47.29	48.959	1.67	REFER TO IDM SD430
						300	47.43			48.959	1.67	
140B	GJP	278032.75	5769015.237	600	900			300	47.58	49.118	1.54	REFER TO IDM SD420 INSTALL CLASS D BIKE SAFE GRATE
141	SEP	278030.284	5769041.939	600	900	375	47.56	375	47.49	49.121	1.63	REFER TO IDM SD430
142	JP	278035.769	5769081.062	600	900			375	47.88	49.319	1.49	REFER TO IDM SD420
143	SEP	278011.437	5768967.638	900	900	375	46.22	375	46.10	48.693	2.59	REFER TO IDM SD430
144	SEP	278022.138	5769042.893	900	900	375	46.58	375	46.54	49.125	2.59	REFER TO IDM SD430
145	SEP	278031.16	5769108.341	900	900	375	46.87	375	46.84	49.449	2.61	REFER TO IDM SD430
						375	47.31			49.449	2.61	
146	JP	278022.279	5769119.267	900	900	375	47.01	375	47.01	49.387	2.38	REFER TO IDM SD420
						375	47.43			49.387	2.38	
147	SEP	278023.308	5769127.705	900	900	375	47.08	375	47.04	49.387	2.35	REFER TO IDM SD430
						375	47.79			49.387	2.35	
148	SEP	277988.456	5769131.857	600	900			375	47.42	48.855	1.43	REFER TO IDM SD430
149	SEP	278039.566	5769107.070	900	900	375	47.65	375	47.59	49.451	1.87	REFER TO IDM SD430
150	SEP	278050.884	5769115.916	600	900			375	47.81	49.563	1.75	REFER TO IDM SD430
152	JP	278060.802	5769122.956	600	900			375	48.21	49.608	1.40	REFER TO IDM SD420
153	SEP	278004.933	5769121.468	600	900			375	47.69	49.148	1.46	REFER TO IDM SD430

NOTE:  
 - ALL PIT LIDS TO BE CLASS C AS PER COGG DESIGN NOTE 13 UNLESS OTHERWISE STATED.  
 - ALL UNHAUNCHED PITS REFER IDM SD405 PLUS ADDITIONAL STD IN 'REMARKS'.

AS-CONSTRUCTED SIGNATURES

 31/10/24  
 SIGN DATE  
 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228  
 31/10/24  
 SIGN DATE  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

REV	REVISION	DES	DWG	CHK	DATE
AC1	AS CONSTRUCTED	NC	SP	MM	31/10/24
0	CONSTRUCTION ISSUE	NC	RQ	MM	6/11/23
D	UPDATE PIT SCHEDULE TO INCLUDE 104A AND 140B	NC	MK	MM	27/10/23
C	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
B	AMENDED AS PER COUNCIL COMMENTS.	NC	PW	MM	27/04/23
A	PRELIMINARY ISSUE	NC	PW	MM	05/04/23

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**estuary II**  
 LEOPOLD 00

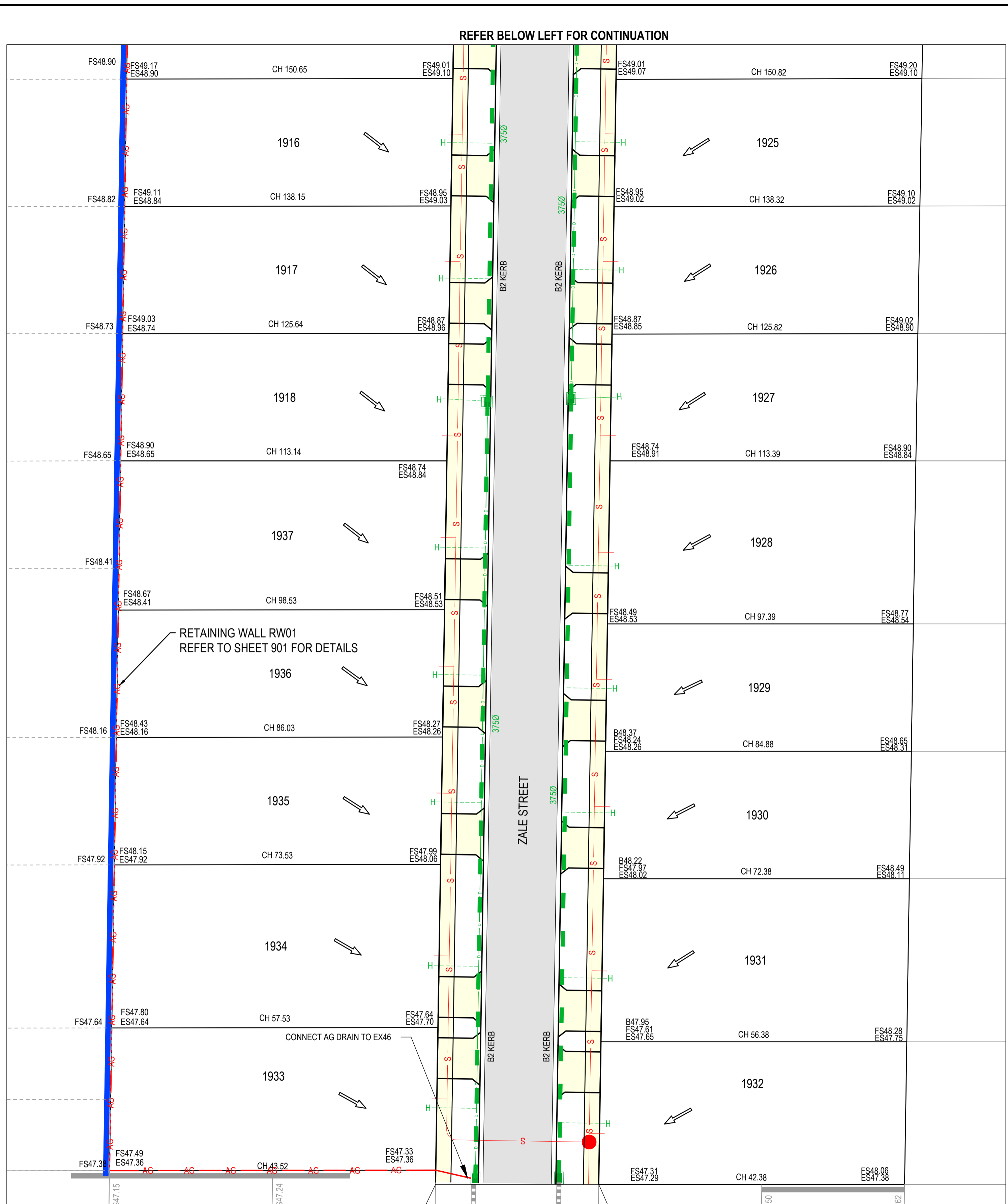
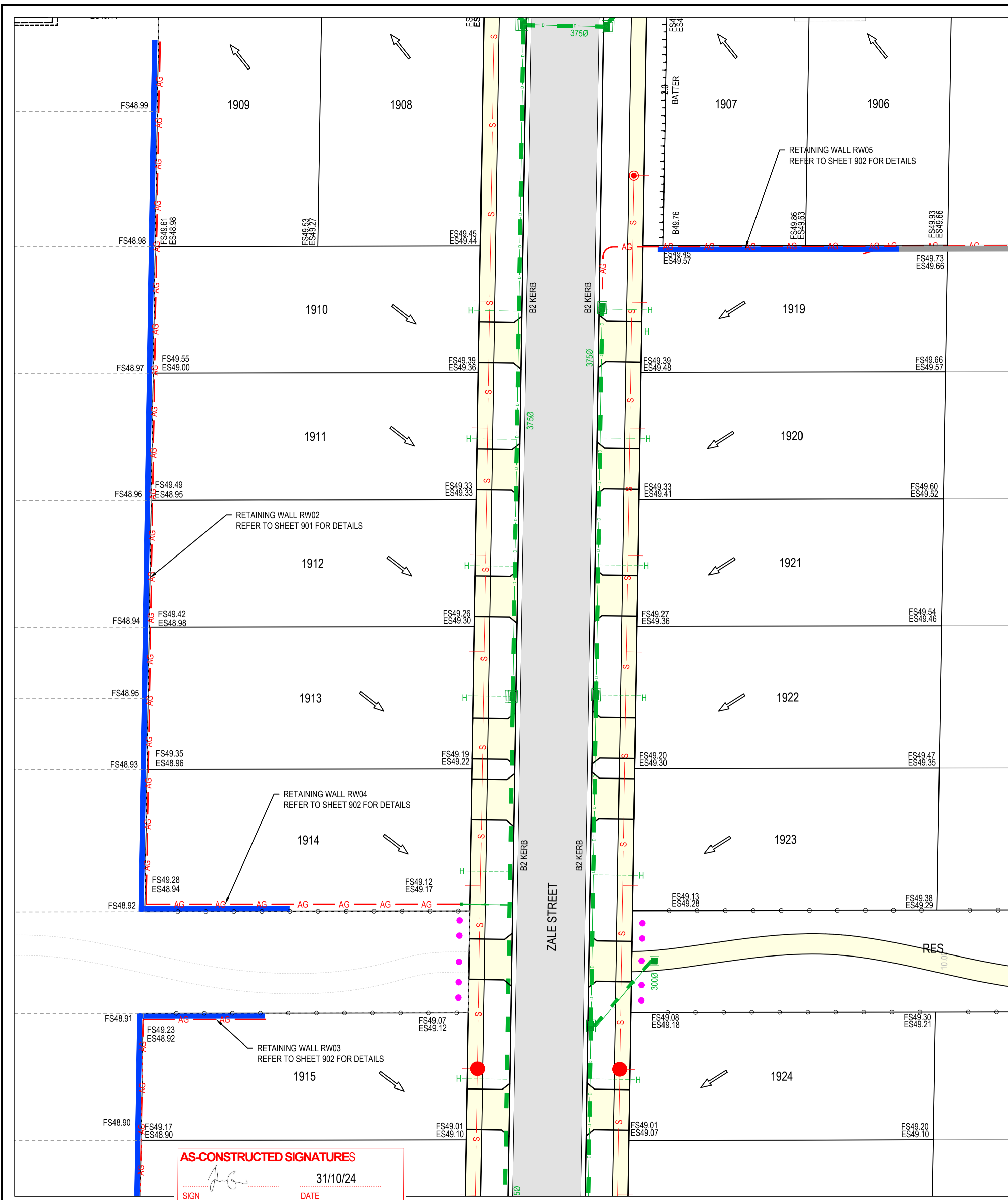
SCALE H 1:500 V 1:50 @ A1, H 1:1000 V 1:100 @ A3  
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 LENGTHS ARE IN METRES



**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**DRAINAGE LONGITUDINAL SECTIONS & PIT SCHEDULE**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONTRUCTED A4041D-RD801

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 TOMKINSON GROUP  
 1016-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
D ADD AG DRAINS TO RETAINING WALL PLAN	NC MK MM 27/10/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE



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 2.5 0 2.5 5 7.5 10 12.5  
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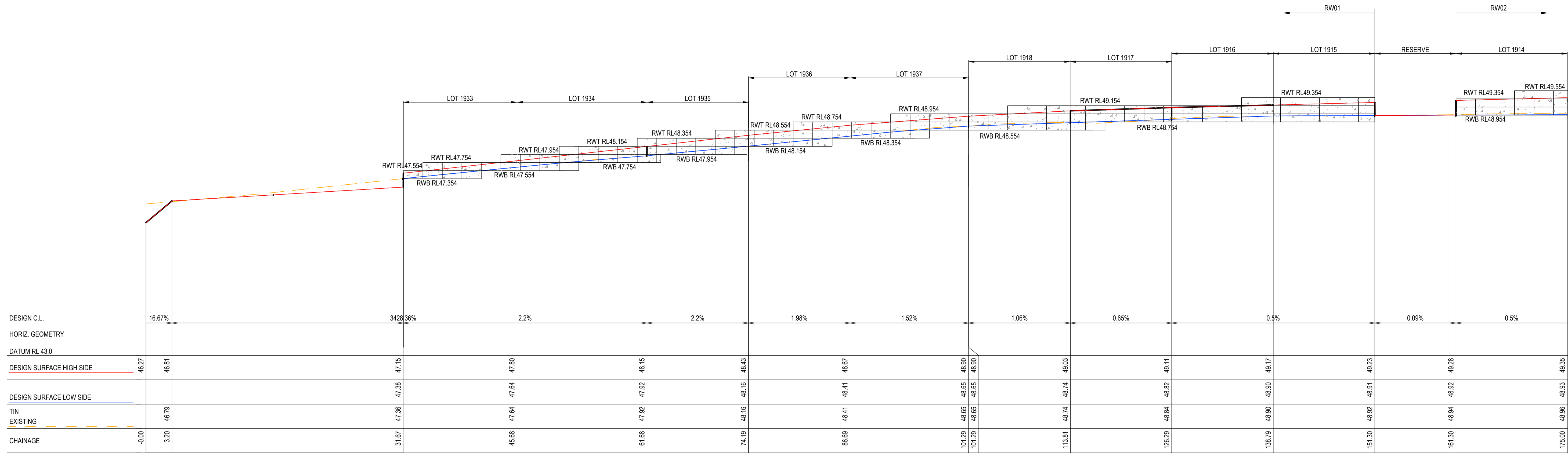
**ESTUARY II - STAGE 03**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**RETAINING WALL LAYOUT PLAN**

AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD

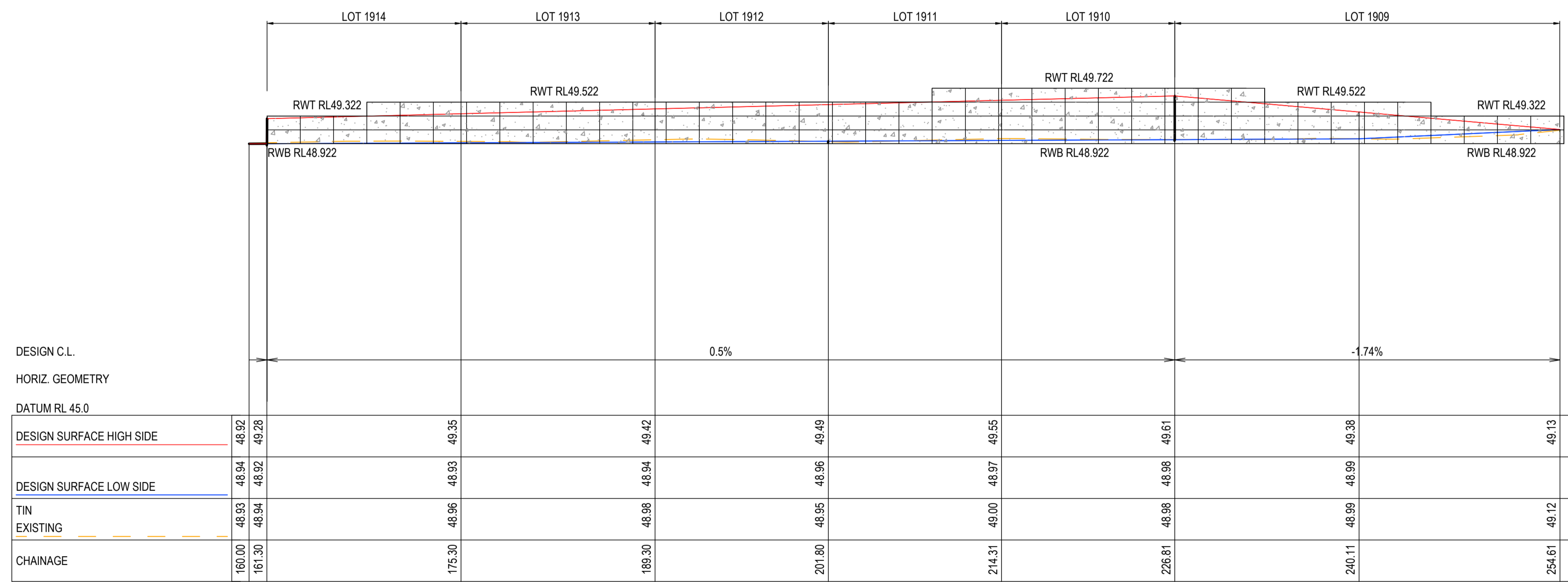
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 PLOT DATE: 31/10/2024 FILE: C:\112\DA\1\TOM\BGO-12DS01\44041 - ASH ROAD, LEOPOLD - C-VILL WOOD BENDIGO, LEOPOLD\_9886ENGINEERING\CAD\CURRENT\44041 - STAGE 03\ROAD AND DRAINAGE\A4041D-03-RD900.DWG





RETAINING WALL RW01 - LONGITUDINAL SECTION



RETAINING WALL RW02 - LONGITUDINAL SECTION

**AS-CONSTRUCTED SIGNATURES**

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 TOMKINSON GROUP  
 10/6-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE



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SCALE H 1:250 V 1:50 @ A1, H 1:500 V 1:100 @ A3  
 H 2.5 0 2.5 5 7.5 10 12.5 H  
 V 0.5 0 0.5 1 1.5 2.0 2.5 V  
 LENGTHS ARE IN METRES

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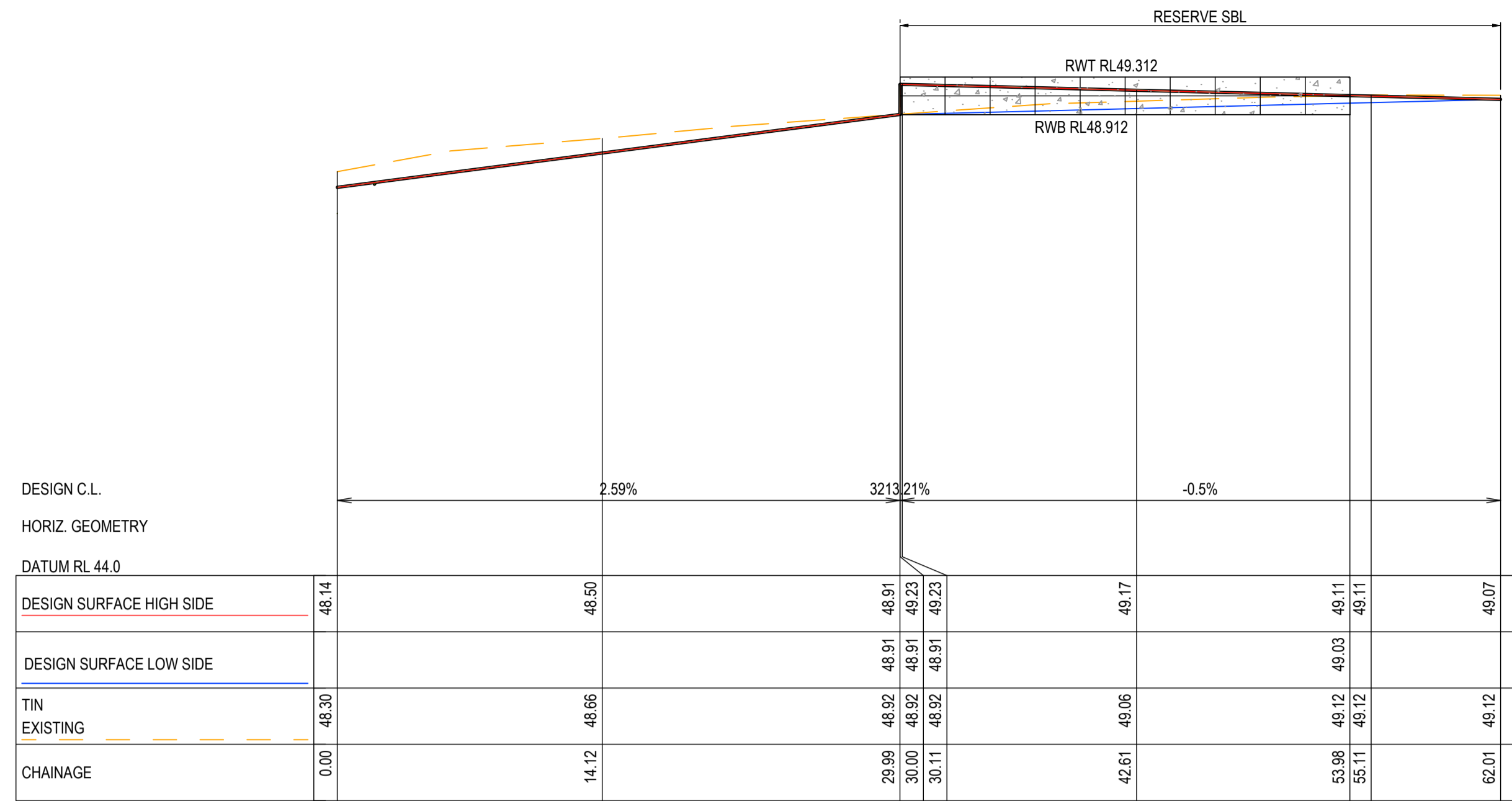
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**RETAINING WALL LAYOUT PLAN**

AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD

DWG STATUS: PROJECT & DWG No: REV: **AS CONSTRUCTED** A4041D-RD901 AC1

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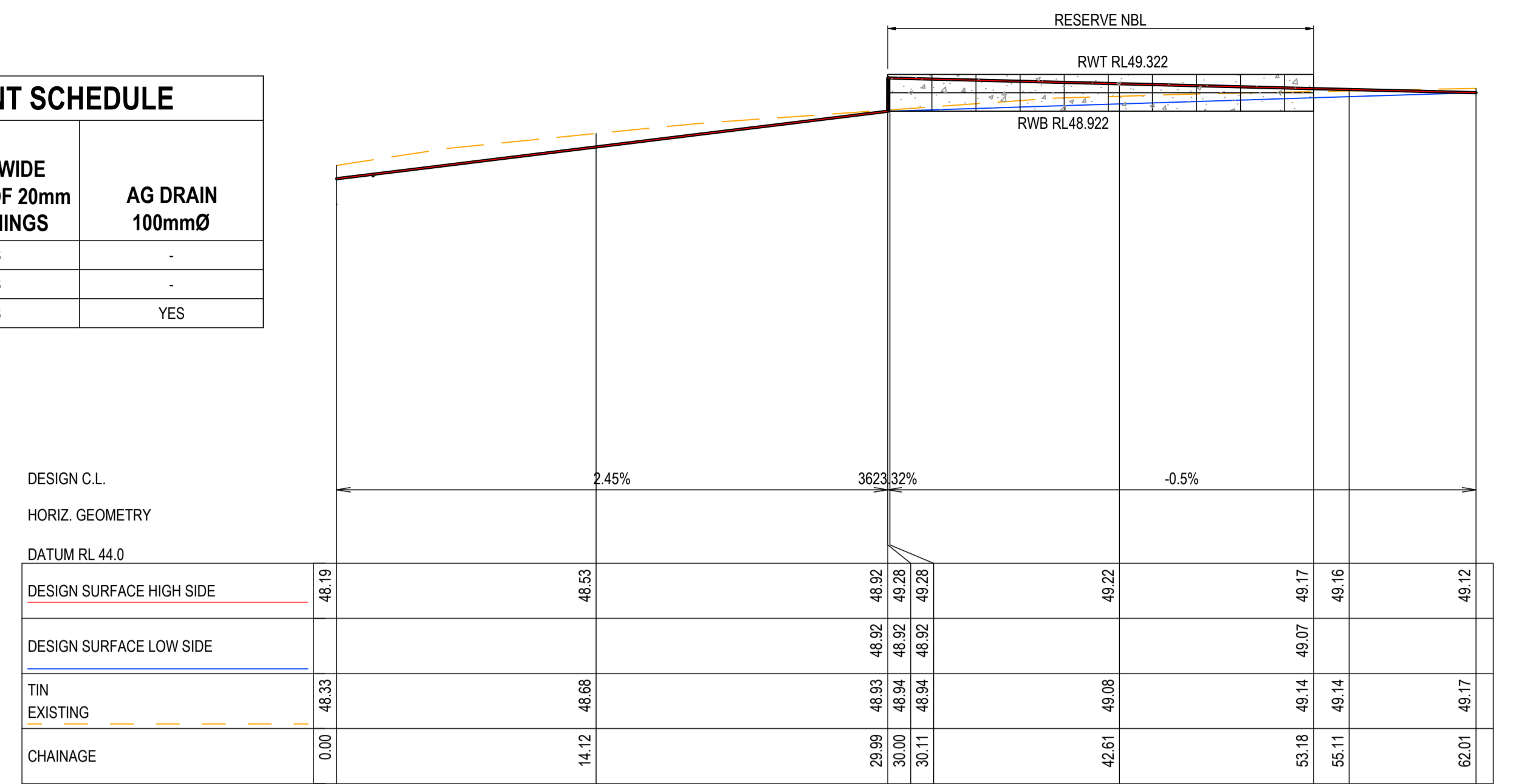




RETAINING WALL RW03 ON SOUTH BOUNDARY LINE OF RESERVE - LONGITUDINAL SECTION

### RETAINING WALL POST & EMBEDMENT SCHEDULE

EFFECTIVE HEIGHT 'H' (m)	DEPTH OF EMBEDMENT 'D' (m)	DIA OF HOLE (m)	GRADE OF POSTS	150mm WIDE TRENCH OF 20mm SCREENINGS	AG DRAIN 100mmØ
0.2	0.30	0.45	150UB14.0	YES	-
0.6	0.60	0.45	150UB14.0	YES	-
1.0	0.75	0.45	150UB14.0	YES	YES

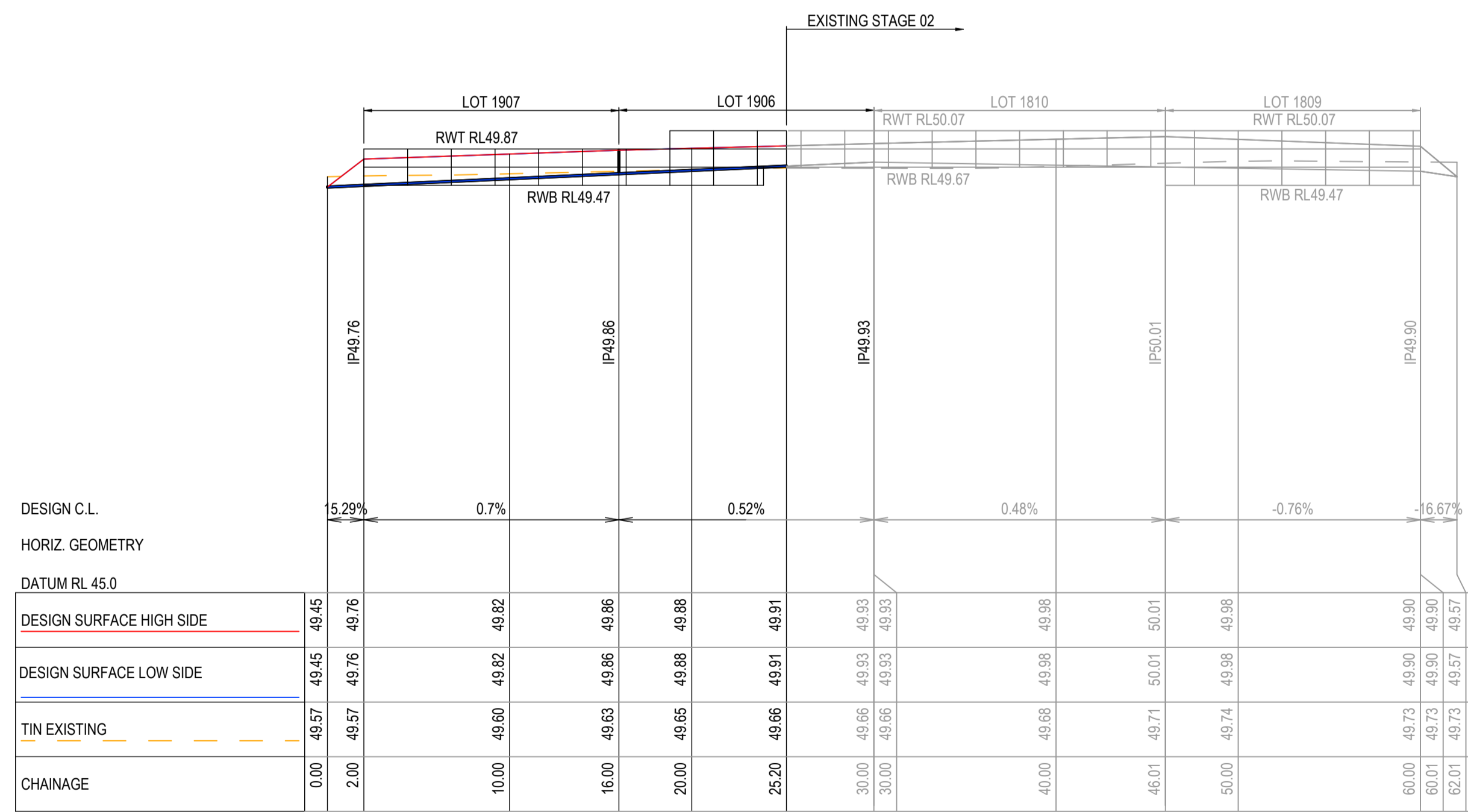
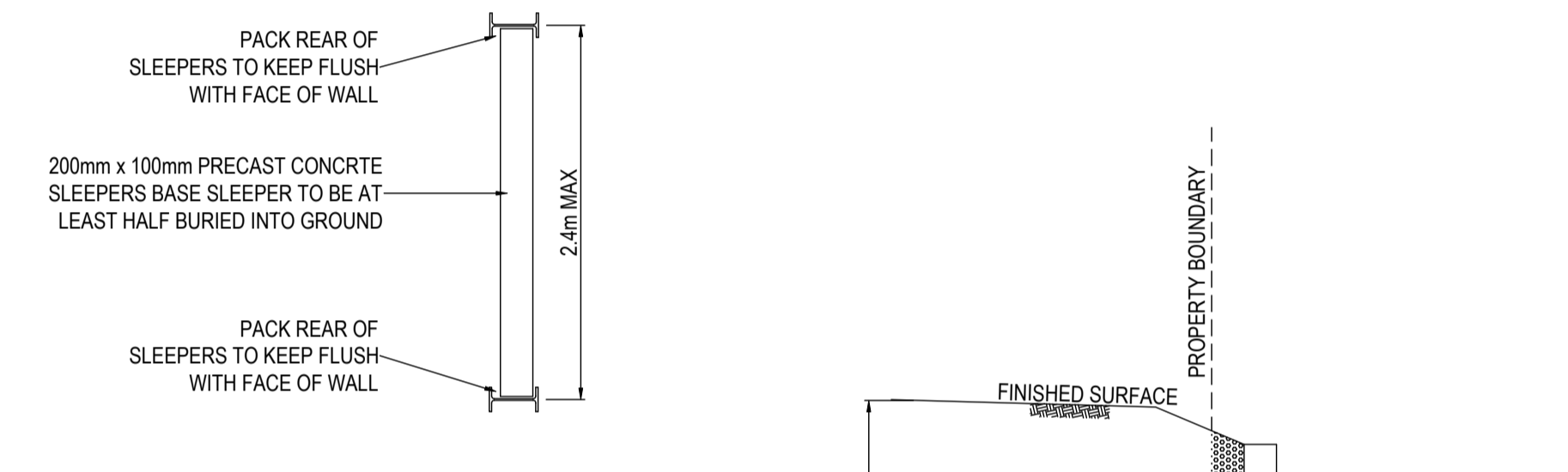
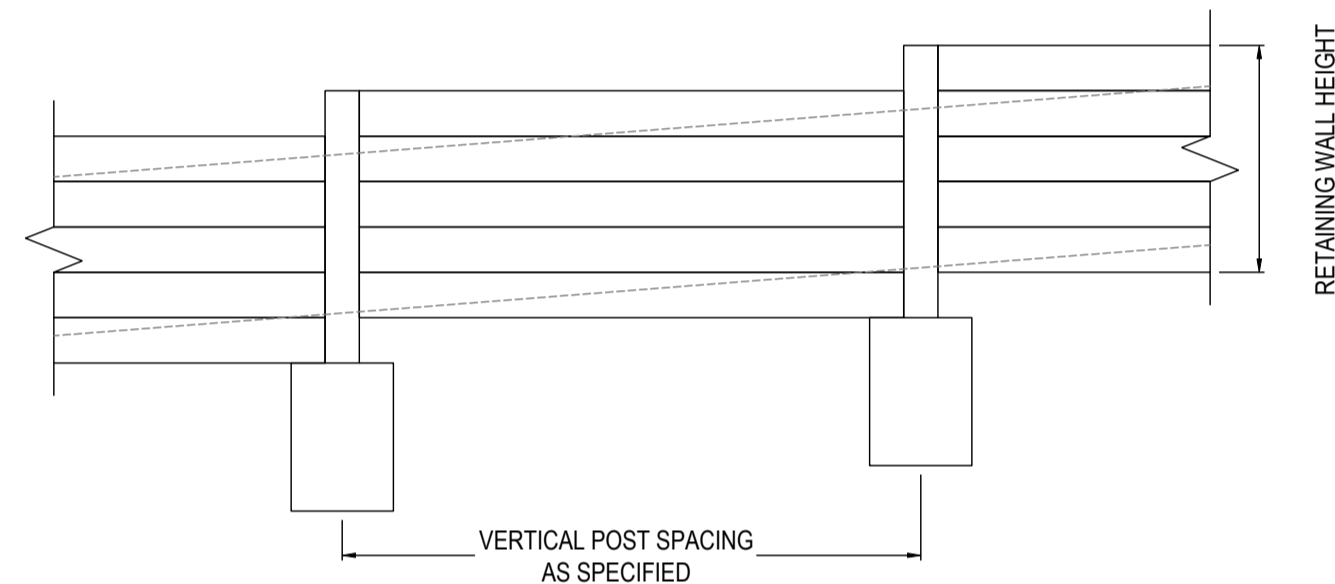


RETAINING WALL RW04 ON NORTH BOUNDARY LINE OF RESERVE - LONGITUDINAL SECTION

**AS-CONSTRUCTED SIGNATURES**

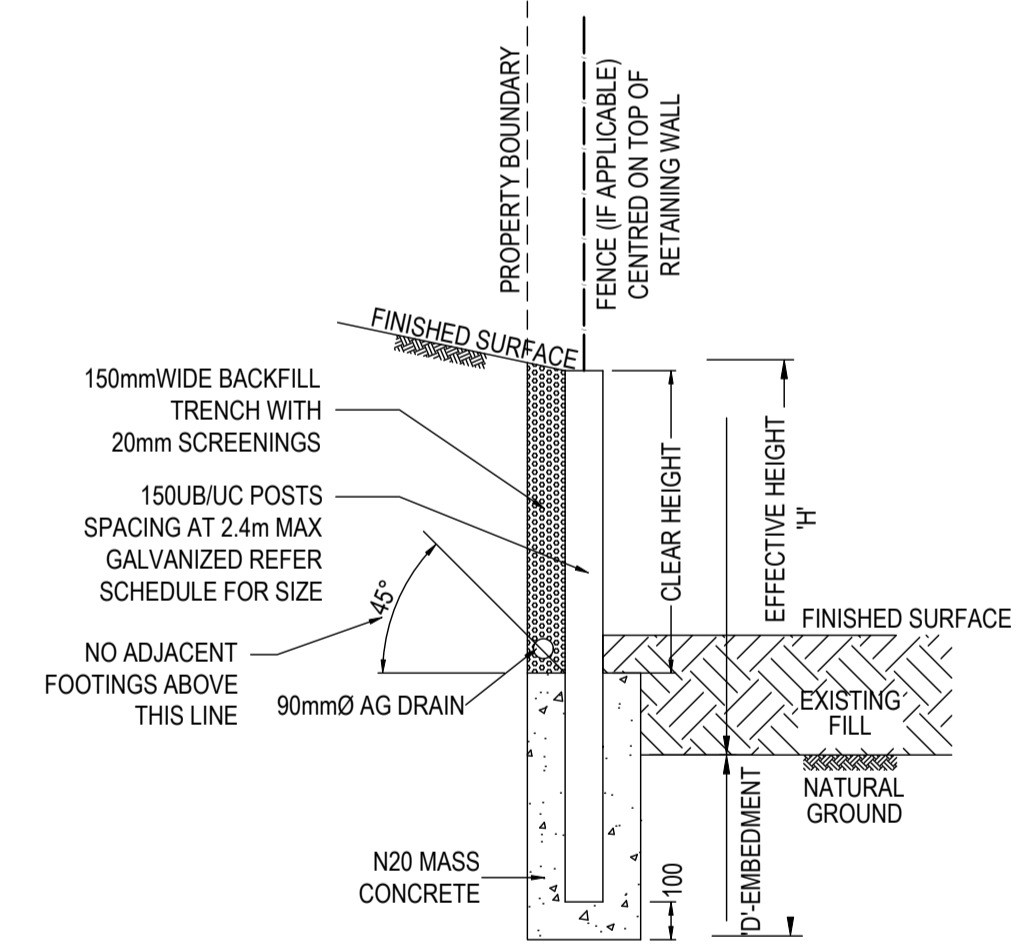
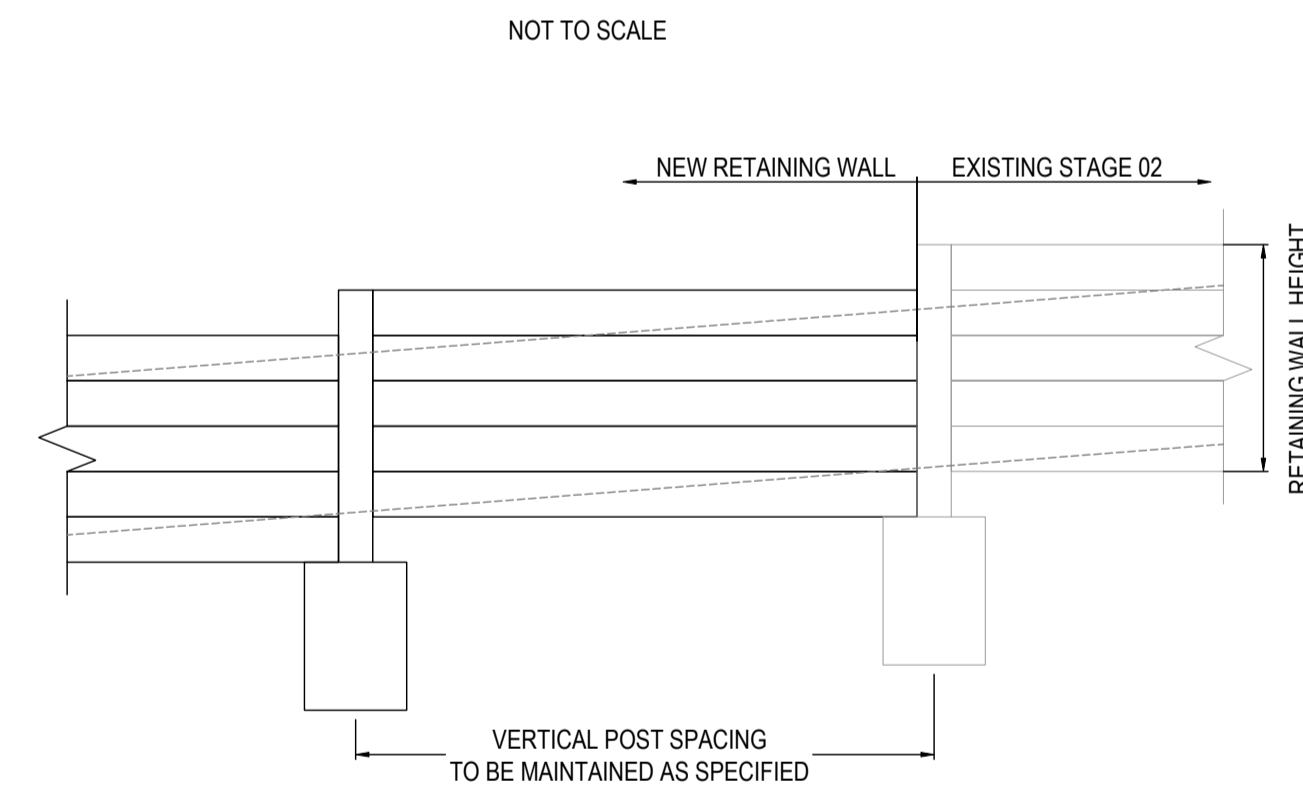
*[Signature]* 31/10/24  
SIGN DATE  
TOMKINSON GROUP  
106-8 BOSTON RD, TORQUAY 3228

*[Signature]* 31/10/24  
SIGN DATE  
DRAPER'S CIVIL CONTRACTING PTY LTD  
54-56 LEATHER ST, BREAKWATER VIC 3219

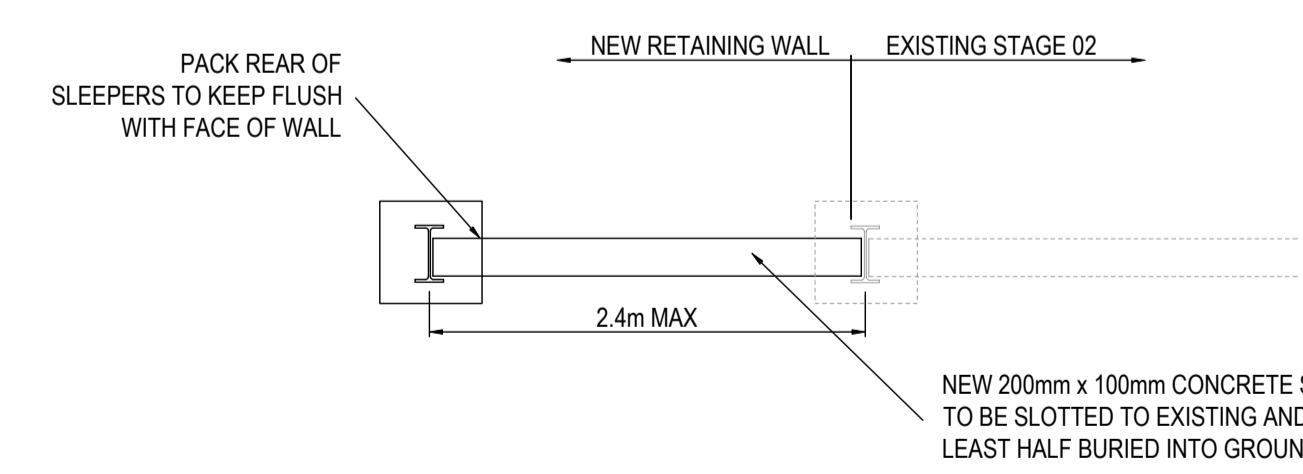


RETAINING WALL RW05 ON SOUTH BOUNDARY LINE OF RESERVE - LONGITUDINAL SECTION

RETAINING WALL LONGITUDINAL DETAIL



RETAINING WALL TYPICAL SECTION



CONNECTING TO EXISTING

NOT TO SCALE

RETAINING WALL

NOT TO SCALE

- NOTES**
- ALL WALLS TO HAVE 20mm SCREENING BACKFILL IN 150mm WIDE TRENCH
  - ALL SCREENING BACKFILL/AG DRAINS TO HAVE POSITIVE DRAINAGE CONNECTION
  - ALL SLEEPERS TO BE 200mm x 100mm H4 OR EQUIVALENT AS SPECIFIED
  - POSTS TO BE AT 2.4m MAX CENTRES AND ANTI-RUST TREATED
  - IF FENCE IS TO BE ATTACHED TO RETAINING WALL EMBEDMENT OF POSTS TO BE 600mm MIN
  - FACE OF RETAINING WALL TO HAVE 1:12 SLOPE
  - EMBEDMENT DEPTH IS TO BE WHOLLY IN SOLID NATURAL GROUND
  - WALL IS NOT DESIGNED TO SUPPORT ANY ADJACENT STRUCTURES
  - WALLS IN EXCESS OF 1.0m TO BE CERTIFIED BY A STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION
  - REFER TO 'RETAINING WALL DETAIL PLAN PREPARED BY SGP CONSULTING ENGINEERS REF 20-6070' WHEN CONSTRUCTING NEXT TO EXISTING/PROPOSED DRAINAGE
  - RETAINING WALL AND FOOTING TO BE FULLY CONTAINED WITHIN LOW SIDE LOT

AC1 AS CONSTRUCTED	NC SP MM 31/10/24
0 CONSTRUCTION ISSUE	NC RQ MM 6/11/23
C AMENDED AS PER COUNCIL COMMENTS	NC PW MM 11/08/23
B AMENDED AS PER COUNCIL COMMENTS	NC PW MM 27/04/23
A PRELIMINARY ISSUE	NC PW MM 05/04/23
REV	DES DWG CHK DATE



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H 2.5 0 2.5 5 7.5 10 12.5 H  
V 0.5 0 0.5 1 1.5 2.0 2.5 V  
LENGTHS ARE IN METRES

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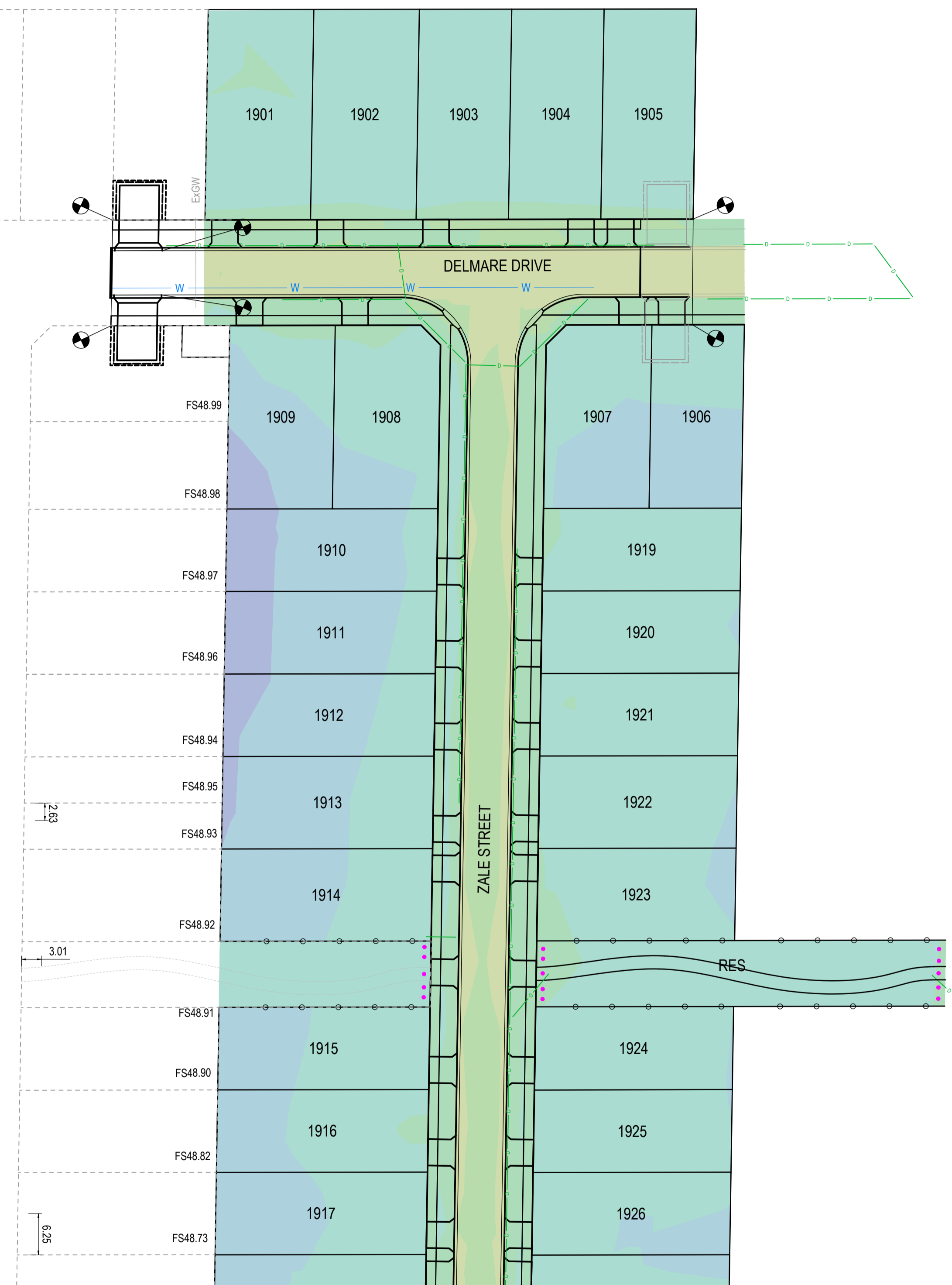
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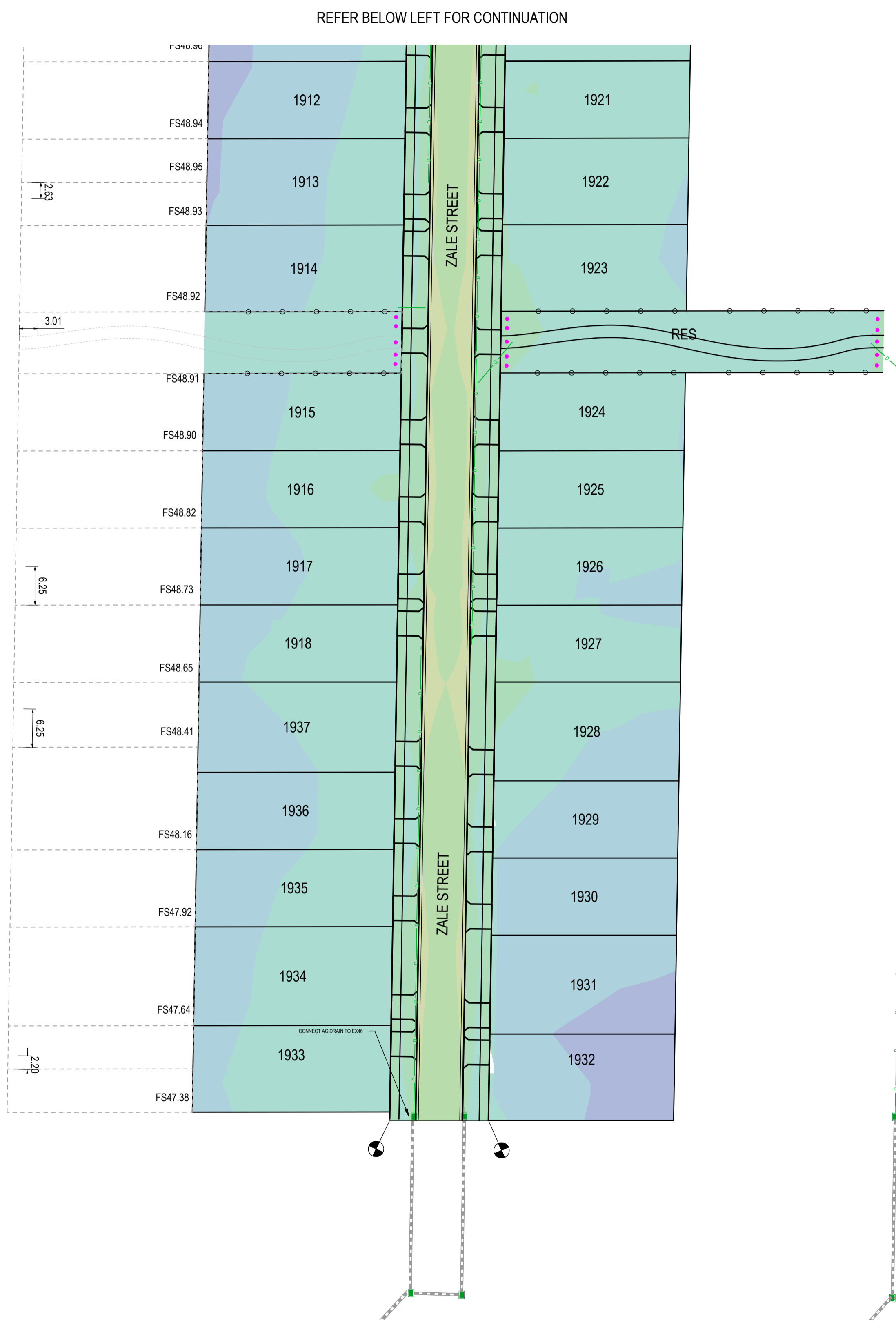
**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD**  
**ROAD AND DRAINAGE**  
**RETAINING WALL LONGITUDINAL SECTIONS**  
AUTHORITY: CITY OF GREATER GEELONG  
CLIENT: ASH ROAD LEOPOLD PTY LTD  
DWG STATUS: PROJECT & DWG No: REV:  
**AS CONSTRUCTED** A4041D-RD902 AC1

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PLOT DATE: 31/10/2024 FILE: C:\1122\DATA\TOMKINSON\B60-42\DS01\A4041 - ASH ROAD, LEOPOLD C-VILLAWOOD BENDIGO, LEOPOLD\_986ENGINEERING\CAD\DWG\IRRENT\A4041 - STAGE 03 ROAD AND DRAINAGE\A4041D-RD902.DWG





REFER ABOVE RIGHT FOR CONTINUATION



REFER BELOW LEFT FOR CONTINUATION

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 TOMKINSON GROUP  
 106-8 BOSTON RD, TORQUAY 3228

SIGN: *[Signature]* DATE: 31/10/24  
 DRAPER'S CIVIL CONTRACTING PTY LTD  
 54-56 LEATHER ST, BREAKWATER VIC 3219

**CUT & FILL DEPTH RANGE**

LOWER VALUE	UPPER VALUE	COLOUR
-3.5 to -2.5m		
-2.5 to 2.0m		
-2.0 to -1.5m		
-1.5 to -1.0m		
-1.0 to -0.6m		
-0.6 to -0.3m		
-0.3 to 0.1m		
0.1 - 0.3m		
0.3 - 0.6m		
0.6 - 1.0m		
1.0 - 1.5m		
1.5 - 2.0m		
2.0 - 2.5m		

**CUT & FILL VOLUMES**

CUT = 333m<sup>3</sup>  
 FILL = 781m<sup>3</sup>

NOTE: DEPTH RANGE CUT AND FILL ARE CALCULATED ALLOWING 200mm STRIPPING. VOLUMES HAVE BEEN CALCULATED FROM DESIGN SURFACE AGAINST STRIPPING WITHIN LOTS AND BOXING SURFACE AGAINST STRIPPING WITHIN ROAD RESERVE.

**AC1**

AC1 AS CONSTRUCTED

REV	REVISION	DES	DWG	CHK	DATE
0	CONSTRUCTION ISSUE	NC	SP	MM	31/10/24
C	AMENDED AS PER COUNCIL COMMENTS	NC	RQ	MM	6/11/23
B	AMENDED AS PER COUNCIL COMMENTS	NC	PW	MM	11/08/23
A	PRELIMINARY ISSUE	NC	PW	MM	27/04/23
		NC	PW	MM	05/04/23



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 0 5 10 15 20 25  
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**ESTUARY II - STAGE 03 PP-729-2021**  
**ASH ROAD, LEOPOLD ROAD AND DRAINAGE BULK EARTHWORKS**  
 AUTHORITY: CITY OF GREATER GEELONG  
 CLIENT: ASH ROAD LEOPOLD PTY LTD  
 DWG STATUS: PROJECT & DWG No: AS CONTRUCTED A4041D-RD903

REV: AC1

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