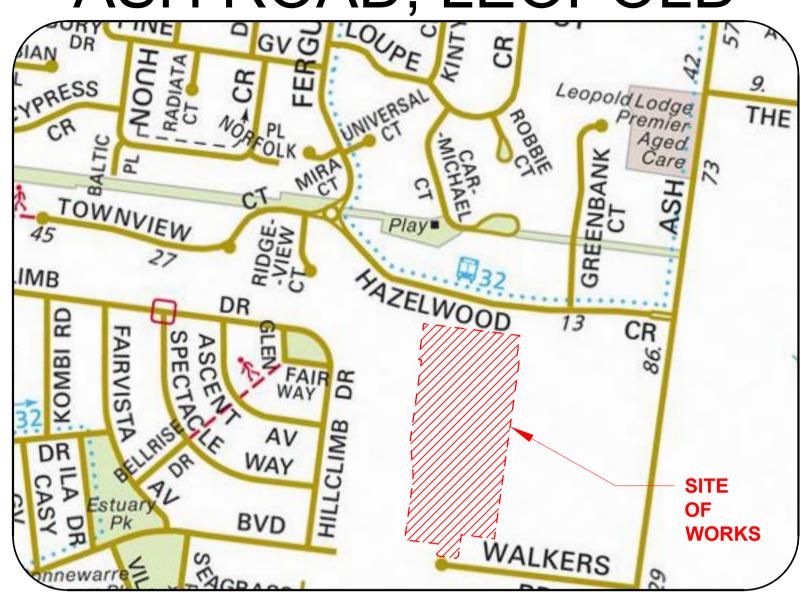
ROAD AND DRAINAGE PLAN

ASH ROAD, LEOPOLD



LOCALITY PLAN MELWAYS REF: 685 H3 SCALE 1:5000

- THE CONSULTING SURVEYOR IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PEGS AND 24. NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS
 - a. GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.

IF USING GNSS \ GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE

- b. ONLY USE A SINGLE POINT CALIBRATION FOR THE VERTICAL THEN TEST TO AT LEAST 1 OTHER
- STATED TBM BEFORE PROCEEDING c. IF YOU HAVE ANY QUERIES OR CONCERNS CONTACT THE CONSULTING SURVEYOR.

THE CONSULTANT HAS MADE EVERY REASONABLE ATTEMPT TO LOCATE EXISTING SERVICES AND HAS SITE MANAGEMENT DURING CONSTRUCTION SHOWN THESE ON THE DRAWINGS. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS AND PROVIDE A

DES DWG CHK AUTH DATE

- WRITTEN REPORT DETAILING THE CONDITION REGARDING ALL EXISTING INFRASTRUCTURE WHICH THEY 14. THE SUPERINTENDENT IS RESPONSIBLE FOR THE DESIGN AND MANAGEMENT OF THE CONSTRUCTION WORKS. ANY PROBLEMS ARISING DURING CONSTRUCTION SHALL BE DIRECTED TO THE SUPERINTENDENT.
- SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVICING AUTHORITIES). THE 15. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR AND ANY OTHER RELEVANT AUTHORITY SPECIFICATIONS. A COPY OF THE IDM CAN BE FOUND AT WWW.DESIGNMANUAL.COM.AU - IF YOU HAVE ANY ISSUES INTERPRETING THE MANUAL CONTACT THE SUPERINTENDENT.
- DIG WEBSITE PRIOR TO COMMENCING WORKS AND SATISFY THEMSELVES THAT THERE ARE NO SERVICES16. ALL WORKS MUST ABIDE BY THE APPROVED CONSTRUCTION MANAGEMENT PLAN AND MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY PUBLICATION "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.
 - 17. BEFORE COMMENCING ANY EXCAVATION WORKS OF 1.5m DEPTH OR GREATER, THE CONTRACTOR IS 30. THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR REQUIRED TO SUBMIT THE REQUIRED NOTIFICATION TO WORKSAFE VICTORIA. THE NOTIFICATION MUST BE RECEIVED BY THE AUTHORITY AT LEAST 3 DAYS PRIOR TO COMMENCING EXCAVATIONS, A COPY OF THE NOTIFICATION IS TO BE PROVIDED TO THE SUPERINTENDENT. THE CONTRACTOR SHALL COMPLY 31. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL IMPORTED FILL MATERIAL, INCLUDING WITH THE MINES ACT, OCCUPATIONAL HEATH AND SAFETY ACT, WORKSAFE VICTORIA REQUIREMENTS INCLUDING COMPLIANCE CODES.
 - 18. TWENTY-FOUR (24) HOURS NOTIFICATION TO INSPECTORS OF RELEVANT AUTHORITY IS REQUIRED PRIOR TO AN INSPECTION BEING CONDUCTED ON ANY PARTICULAR PORTION OF THE WORKS.
 - THE CONTRACTOR SHALL TAKE THE UTMOST CARE TO PRESERVE EXISTING TREES. NO TREES SHALL BE REMOVED WITHOUT THE PRIOR APPROVAL OF THE SUPERINTENDENT.
 - 20. THE CONTRACTOR IS REQUIRED TO CONFINE CONSTRUCTION VEHICLES TO THE ROAD RESERVE AND EASEMENTS. ANY DAMAGE CAUSED TO THE ALLOTMENTS MUST BE MADE GOOD.
 - OFFICER PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD MANAGEMENT ACT.
 - 22. DISPOSAL OF EXCESS SPOIL TRUCK ROUTE AND DISPOSAL LOCATION ARE TO BE APPROVED BY THE MUNICIPAL ENGINEERING DEPARTMENT.
- 11. COORDINATION OF THIS DESIGN USES MGA 94, CORRECT AS OF THE DATE OF THESE PLANS. FROM 1ST 23. AT THE COMPLETION OF WORKS ALL RUBBISH, DEBRIS AND SURPLUS SPOIL IS TO BE REMOVED AND ALL LOTS AND ROAD RESERVE TO BE LEFT IN A TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT & RELEVANT AUTHORITY.

APPROVED BY THE RESPONSIBLE AUTHORITY

EXISTING SHRUBS / TREES

TREE PROTECTION ZONE

ELECTRICITY LIGHT & POLE

CARRIAGEWAY EASEMEN

TOP OF BANK (DESIGN \ EXISTING)

PROPOSED FUTURE TITLE BOUNDARY

PREVIOUS STAGE TITLE BOUNDARY

PROPOSED GAS & WATER CONDUIT

DIRECTION OF LOT GRADING

↑ PERMANENT SURVEY MARK

△ SURVEY STATION

25. MACHINERY IS NOT TO BE DRIVEN OVER OR PARKED WITHIN THE DRIP ZONE OF ANY TREE

EARTHWORKS

98% STANDARD.

- 26. ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) GUIDELINES ON 42. ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.
- 28. ALL FILLING WITHIN OTHER AREAS IS TO ACHIEVE A MINIMUM COMPACTION OF 95% STANDARD.
- 29. 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 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, IT'S CONFORMANCE WITH THE SPECIFICATION AND ITS CLASSIFICATION AS "CONTROLLED FILL". IF ANY SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH VERIFICATION PROVIDED TO THE SUPERVISING ENGINEER. A 47. ALL SEWER MANHOLES ARE TO BE POSITIONED AND ROTATED SO THAT THEY ARE PLACED CENTRALLY EMERGENCY CONTACTS GEO-TECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- TOPSOIL, SATISFIES THE DESCRIPTION FOR CLEAN FILL MATERIAL IN EPA BULLETIN PUBLICATION NO. 448 OTHERWISE. (SEPT '95) AND SUBSEQUENT REVISIONS. THE CONTRACTOR SHALL PROVIDE VERIFICATION INCLUDING 50. ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 6.0m TEST CERTIFICATES TO THE SUPERVISING ENGINEER.
- 32. 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.
- 33. 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.
- 21. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL'S SUPERVISING 34. 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.
 - 35. RESERVES TO BE FREE DRAINING AND TO BE LEFT IN A CONDITION SATISFACTORY TO THE SUPERINTENDENT.
 - 36. ALL DISTURBED/EXPOSED AREAS MUST BE HYDROMULCHED AT THE COMPLETION OF WORKS.

ROAD WORKS AND FOOTPATHS

37. ALL KERB & CHANNEL IS B2 (IDM SD100) UNLESS STATED OTHERWISE

38. ALL ASPHALT ROAD SEALS ARE TO BE 10mm TYPE 'N' UNLESS STATED OTHERWISE

LEGEND

PROPOSED SEWER AND MANHOL

EXISTING SEWER & MANHOLE

PROPOSED WATER MAIN

PROPOSED FUTURE WATER

PROPOSED ELECTRICITY MAIN

EXISTING ELECTRICITY MAIN & PIT

PROPOSED FUTURE ELECTRICITY

PROPOSED GAS MAIN

EXISTING GAS MAIN

PROPOSED FUTURE GAS

PROPOSED TELECO MAIN

EXISTING TELECO CABLE

PROPOSED CATCH DRAIN

DESIGN SURFACE

NATURAL SURFACE

PROPOSED FUTURE TELECO

PROPOSED SEALED PAVEMENT

PROPOSED CRUSHED ROCK

PROPOSED ROCK BEACHING

PROPOSED STRUCTURAL FILL

150mm FREEBOARD RL

ES 101.95 EXISTING/NATURAL SURFACE LEVEL

FS 101.95 FINISHED SURFACE LEVEL B 101.95 PROPOSED BATTER LEVEL

FILL ABOVE 300mm ALLOWING FOR 200mm STRIPPING

PROPOSED CONCRETE FOOTPATH / DRIVEWAY

EXISTING WATER MAIN, FIRE PLUG AND VALVE

- ACCORDANCE WITH COGG DESIGN NOTE 12.
- 41. TGSIs WHERE REQUIRED ARE TO BE INSTALLED IN ACCORDANCE WITH COGG DESIGN NOTE 11

PROPOSED POST AND RAIL FENCE

- IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.
- 27. ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 43. AT ALL TEMPORARY STAGE BOUNDARY TERMINATIONS TO ROADS THE CONTRACTOR IS TO INSTALL A D4-5 HAZARD SIGN.
 - 44. ALL CONCRETE TO COMPLY WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED NOVEMBER 2020. CONCRETE FOR FOOTPATHS IS TO HAVE A MINIMUM STRENGTH OF 32MPa (N32) AND KERB AND CHANNEL IS TO HAVE A MINIMUM STRENGTH OF 280KG/M3 (28MPa), WITH FINISHES AS OUTLINED IN THE 63. ELECTRICITY & TELECOMMUNICATIONS CONDUITS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. REFER TO **DESIGN NOTE**
- ON PLANS. ALL FILLING TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED AS DETAILED ABOVE IN 45. TRANSITIONS BETWEEN DIFFERENT KERB TYPES TO BE OVER 3.0m MINIMUM, IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER.
 - 46. ROAD PAVEMENT COMPACTION & TESTING REQUIREMENTS ARE AS PER THE IDM.
 - WITHIN THE FOOTPATH, TO PREVENT CRACKING.

STORMWATER DRAINAGE AND SERVICE CONDUIT NOTES

- 48. ALL EASEMENT DRAINAGE PIPES ARE 1.0m OFFSET TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE
- 49. ALL EASEMENT DRAINAGE PITS ARE TO BE ARE 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED
- O/S SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE OR COMING
- 51. ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH OR COMING DIRECT OUT OF PIT, SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED
- 52. REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM
- 53. STORMWATER DRAINS SHALL BE RCP OR HDPE (PER IDM CL16.10) UNLESS OTHERWISE SHOWN.
- DIAMETERS GREATER THAN 600mm SHALL BE FLUSH JOINTED WITH INTERIOR MORTAR JOINTS. 55. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE

54. 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

- SATISFACTION OF THE SUPERVISING ENGINEER.
- 56. ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.

A4041D-05-RD000 LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN EXISTING CONDITIONS A4041D-05-RD001 LOT DIMENSIONS PLAN A4041D-05-RD100 A4041D-05-RD200 LAYOUT PLAN A4041D-05-RD201 NON-STANDARD DRIVEWAYS PLAN SIGNAGE & LINEMARKING PLAN A4041D-05-RD400 PAVEMENT PLAN A4041D-05-RD500 **ROAD TYPICAL SECTIONS & DETAILS** A4041D-05-RD600 ROAD LONGITUDINAL SECTION-HAMA AVENUE A4041D-05-RD601 ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 1 OF 2 A4041D-05-RD602 ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 2 OF : A4041D-05-RD610 ROAD LONGITUDINAL SECTION-ELDORIS AVENUI A4041D-05-RD61 ROAD CROSS SECTIONS ELDORIS-AVENUE - SHEET 1 OF 2 A4041D-05-RD612 ROAD CROSS SECTIONS ELDORIS-AVENUE - SHEET 2 OF 2 A4041D-05-RD620 ROAD LONGITUDINAL SECTION-DELMARE DRIVE A4041D-05-RD621 ROAD CROSS SECTIONS-DELMARE DRIVE A4041D-05-RD700 INTERSECTION DETAILS - SHEET 1 OF 2 A4041D-05-RD701 INTERSECTION DETAILS - SHEET 2 OF 2 DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3 DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3 A4041D-05-RD802 DRAINAGE LONG SECTIONS - 3 OF 3 & PIT SCHEDULE A4041D-05-RD900 RETAINING WALL LAYOUT PLAN A4041D-05-RD901 RETAINING WALL LONGITUDINAL SECTIONS A4041D-05-RD902 RETAINING WALL LONGITUDINAL SECTIONS & DETAILS A4041D-05-RD903 BULK EARTHWORKS

DRAWING LIST

DRAWING No.

			TA	3LE	OF	OF	FSET	S F	OR S	SER	VICES			
STREET NAME	GA	AS	D	W	TEL	.CO	P2 P	ITS	UG E	LEC	LIGHT POLE	вок	SEV	VER
DELMARE DRIVE	2.2m	STH	2.7m 5.7m	STH STH	1.8m	NTH	*1.65m	STH	2.4m	NTH	1.00m BOK	4.20N / 4.20S	1.0m	NTH
HAMA AVENUE	2.2m	WST	2.7m	WST	0.5m	EST	*1.65m	WST	1.0m	EST	1.00m BOK	2.20E / 4.20W	1.0m	WST
ELDORIS AVENUE	2.2m	EST	2.7m	EST	0.5m	WST	*1.65m	EST	1.0m	WST	1.00m BOK	4.20E / 2.20W	1.0m	EST

57. CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28 DAYS

*DIMENSION IS TO OUTER PIT WALL. REFER TO TYPICAL DETAILS

- 58. ALL GRATES ARE TO BE HOT DIPPED GALVANISED
- 59. 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED T
- 60. STEP IRONS ARE NOT TO BE INSTALLED IN ANY DRAINAGE PIT, ACCESS LIDS ARE TO BE LOCATED TO ENABLE REASONABLE ACCESS
- 61. ALL HOUSE DRAIN CONNECTIONS TO REINFORCED CONCRETE PIPES ARE TO UTILISE "CONCONECT" OR COUNCIL APPROVED EQUIVALENT PRODUCTS TO AVOID PIPE PROTRUSIONS INTO THE LARGER PIPE.
- 62. REFER ROAD LAYOUT PLANS FOR WATER & GAS ROAD SERVICE CONDUIT LOCATIONS. INTERSECTION DETAILS PLANS DO NOT SHOW CONDUITS.
- ELECTRICITY & TELECOMMUNICATION PLANS FOR ACTUAL ROAD SERVICE CONDUIT LOCATIONS. IF THERE ARE ANY DISCREPANCIES BETWEEN THESE PLANS CONTACT SUPERINTENDENT FOR CLARIFICATION.

CONSTRUCTION HOLD POINTS

64. CONSTRUCTION HOLD POINTS ARE TO BE IN ACCORDANCE WITH THE IDM

65. THE PROJECT AREA CONTAINS THE FOLLOWING SERVICES FOR ASSISTANCE IN EMERGENCY CONTACT:

AUTHORITY & CONTACT TELEPHONE DRAINAGE CITY OF GREATER GEELONG 5272 4608 POWERCOR 132 206 AUSNET GAS 1800 088 208 COMMUNICATIONS TELSTRA 1800 653 935 SEWER & WATER BARWON WATER 1300 656 007

66. IN ANY EMERGENCY IF YOU BELIEVE LIFE OR PROPERTY IS THREATENED DO NOT HESITATE TO CONTACT STATE EMERGENCY SERVICES ON TELEPHONE 000

REFER TO ELECTRICAL AND **TELSTRA PLANS FOR SERVICE**

AND CONDUIT DETAILS

WARNING

BEWARE OF UNDERGROUND SERVICES THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND HEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

GREATER GEELONG CITY COUNCIL **PLANNING ENVIRONMENT ACT 1987** GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 1 of 24 **Approved By Matthew Kirtley Approved Date 21/11/2024**

NOTE: THIS IS NOT A BUILDING APPROVAL

ESTUARY II - STAGE 05 PP-729-2021

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK, STAGING RENAME AND DRAWING LIST UPDATED A PRELIMINARY ISSUE

GENERAL NOTES

PRIOR TO THE COMMENCEMENT OF WORKS

WITHIN THE VICINITY OF THE WORK AREA.

WITHOUT PERMISSION FROM THE UTILITY COMPANY.

a. OCCUPATIONAL HEALTH & SAFETY PROCEDURES

e. QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)

10. ALL LEVELS ARE TO A.H.D. AND ARE REFERENCED TO THE T.B.M. INDICATED.

b. SITE STAFFING INCLUDING CONTACT DETAILS

c. TRAFFIC MANAGEMENT PLAN

f. CONSTRUCTION PROGRAM

METRES FROM THIS DOCUMENT.

d. ENVIRONMENTAL MANAGEMENT PLAN

SERVICES ARE PRESENT.

REQUIREMENTS:

CONSTRUCTION SETOUT

ARE INTERFACING WITH, OR OTHERWISE HAVING AN IMPACT ON.

THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF

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

PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY

THE CONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG (CALL 1100), OR VISIT THE DIAL BEFORE YOU

NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND

CONTRACTOR MUST FOLLOW THE "NO GO ZONE" SAFETY PROCEDURES AT ALL TIMES, WHICH ARE

IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN

CONSTRUCTION OR SITE MANAGEMENT PLAN) AND HAVE IT APPROVED BY **BOTH** COUNCIL & THE

TO INCORPORATE THE FOLLOWING AT A MINIMUM AND IN ACCORDANCE WITH ANY LEGISLATION

JANUARY 2017, MGA 2020 MAY BE IN STANDARD USE AND WILL DIFFER IN POSITION BY AROUND 1.8

SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF ANY WORKS. THIS PROJECT MANAGEMENT PLAN IS

CHIEF ELECTRICAL INSPECTOR, THE OFFICE OF GAS SAFETY AND WORKSAFE VICTORIA.

THE CONTRACTOR MUST PREPARE A PROJECT MANAGEMENT PLAN (OTHERWISE CALLED A

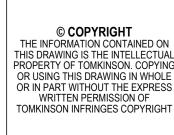
AVAILABLE FROM ALL UTILITY AND TELECOMMUNICATIONS COMPANIES, INCLUDING THE OFFICE OF THE



10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM







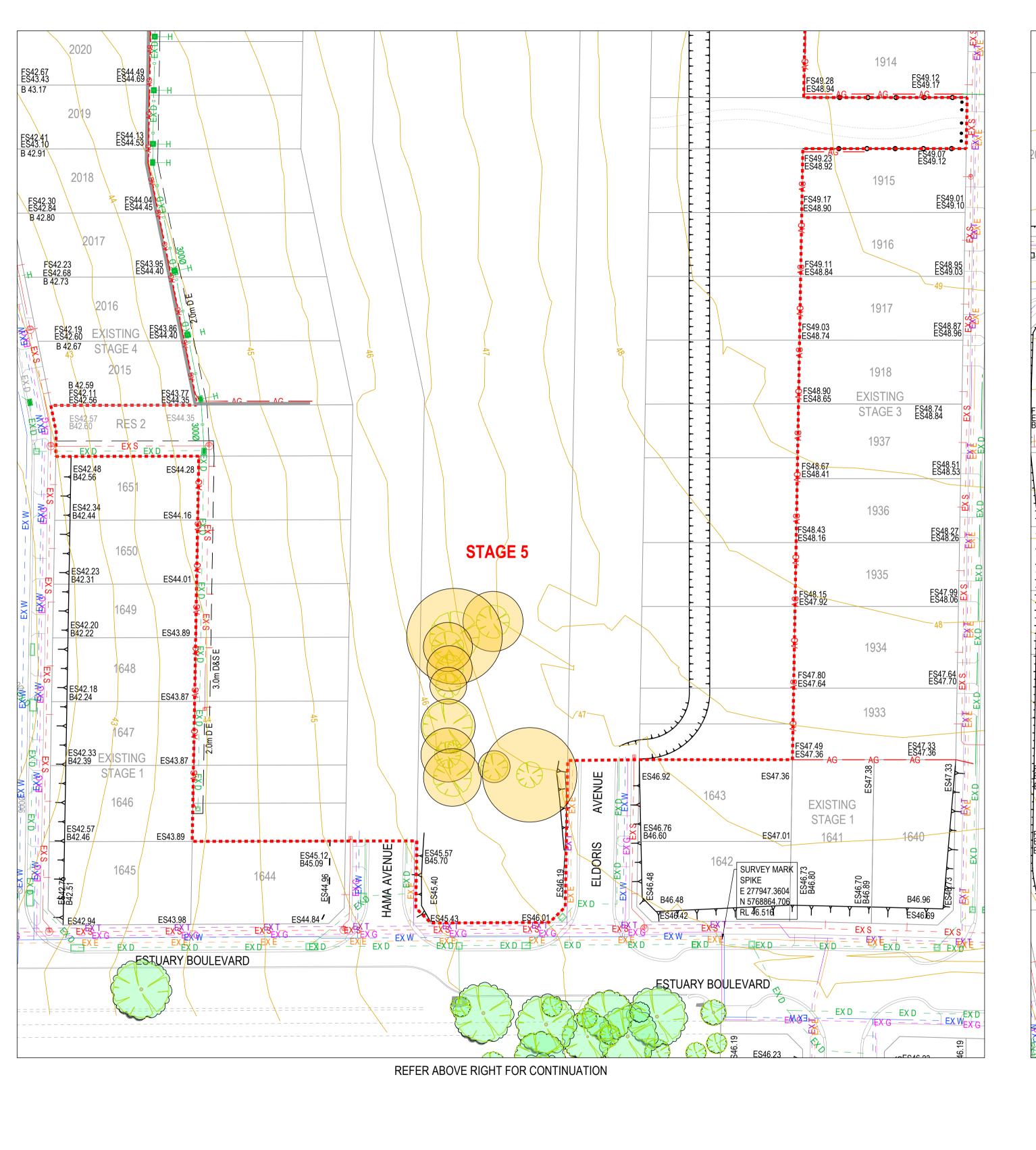
SCALE N/A

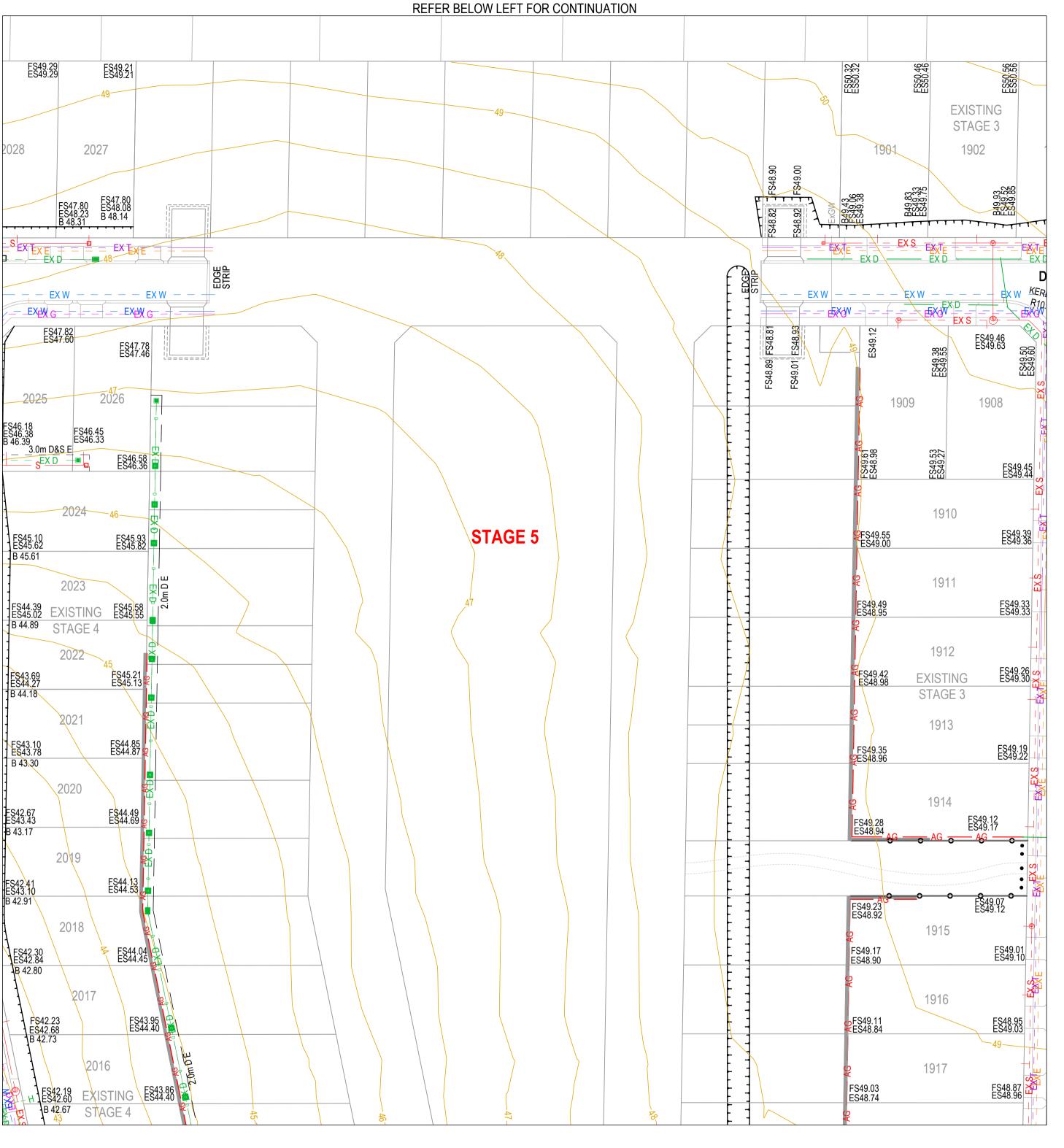




ASH ROAD, LEOPOLD ROAD AND DRAINAGE

LOCALITY, GENERAL NOTES AND SHEET INDEX PLAN AUTHORITY: CITY OF GREATER GEELONG CLIENT: ASH ROAD PTY LTD





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 Moolap PM 88, 501 Bellarine Hwy 275 647.154 5 770 793.750 12.388 AHD Concrete Path - Ash Road 278 133.433 5 768 724.731 47.016 AHD Concrete Path - Ash Road 278 142.050 5 768 786.098 47.925 AHD Concrete Path - Juniper Avenue 5 768 807.641 49.948 AHD

GREATER GEELONG CITY COUNCIL **PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME**

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 2 of 24 Approved By Matthew Kirtley **Approved Date 21/11/2024**

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 **B** TITLE BLOCK UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE DES DWG CHK AUTH DATE

REVISION

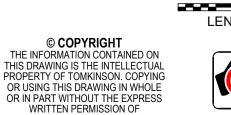




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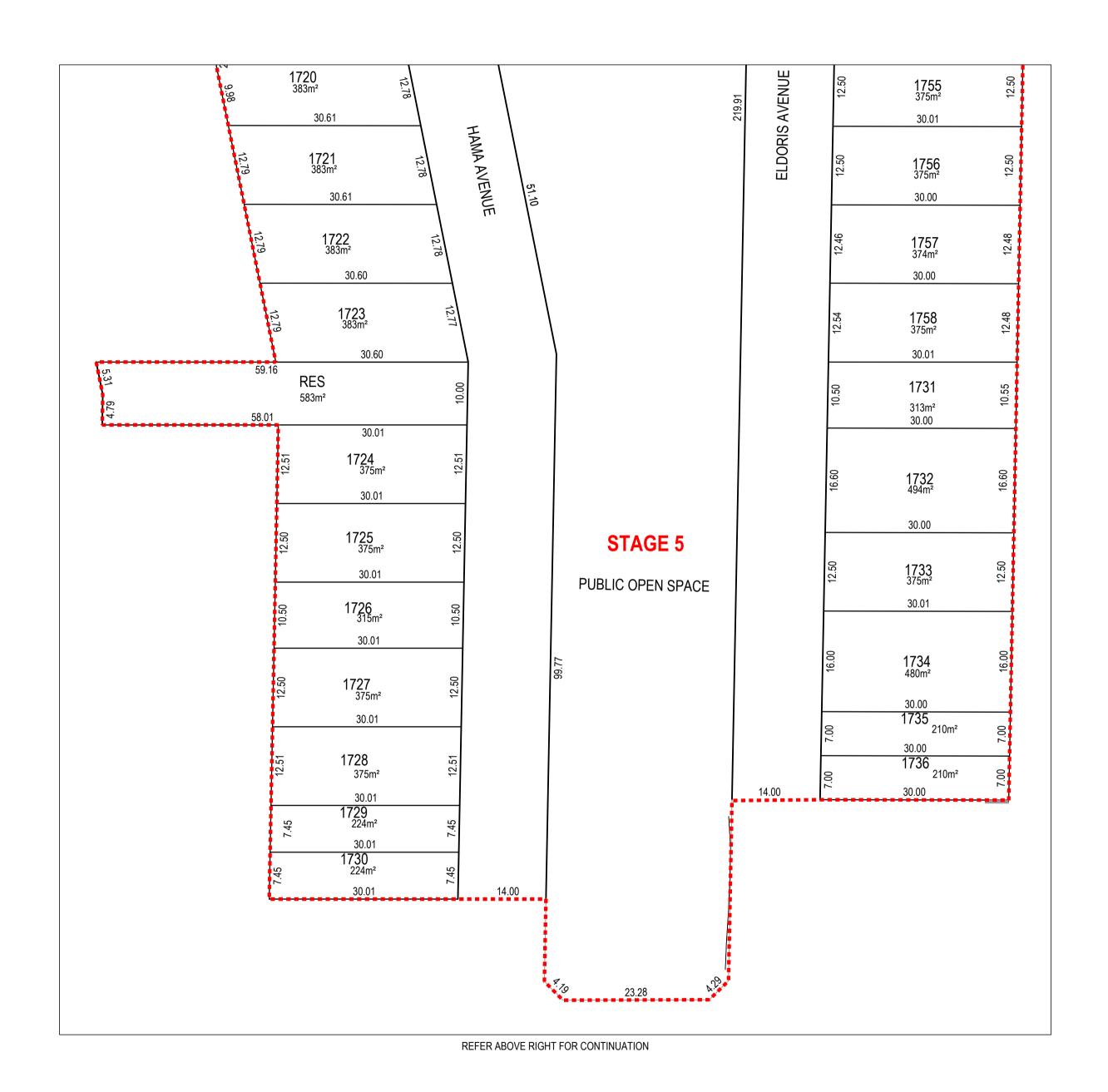




ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE EXISTING CONDITIONSAUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:

REFER TO PLANS OF SUBDIVISION
PS 848068K, PS 848070Y & PS 848069H
FOR MORE INFORMATION





GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 **GREATER GEELONG PLANNING SCHEME**

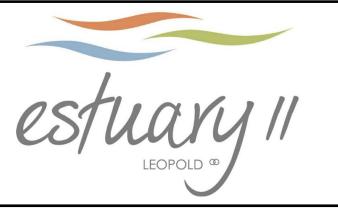
Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 3 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

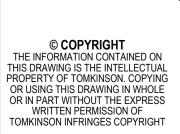
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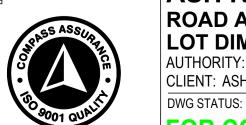
10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM



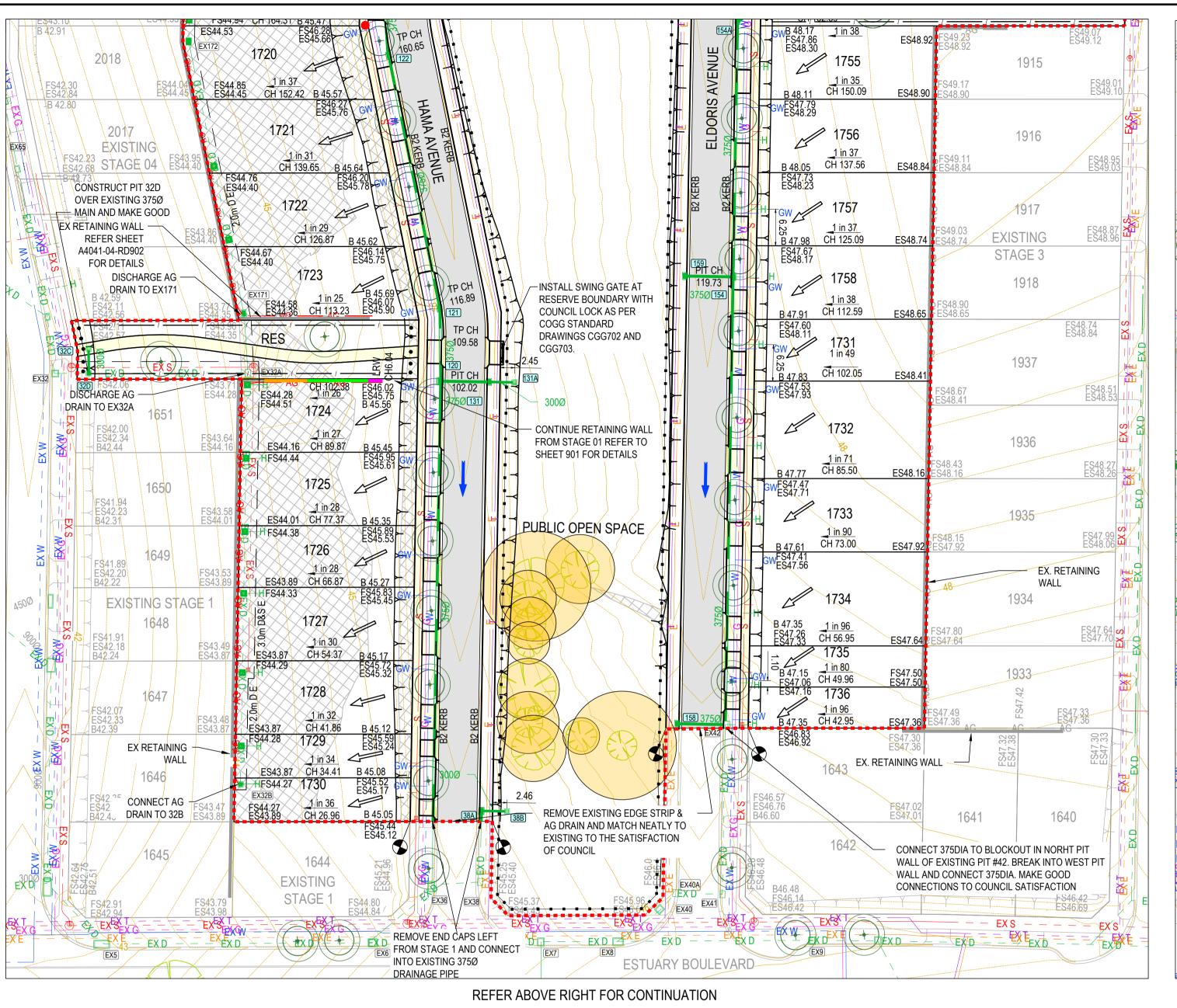


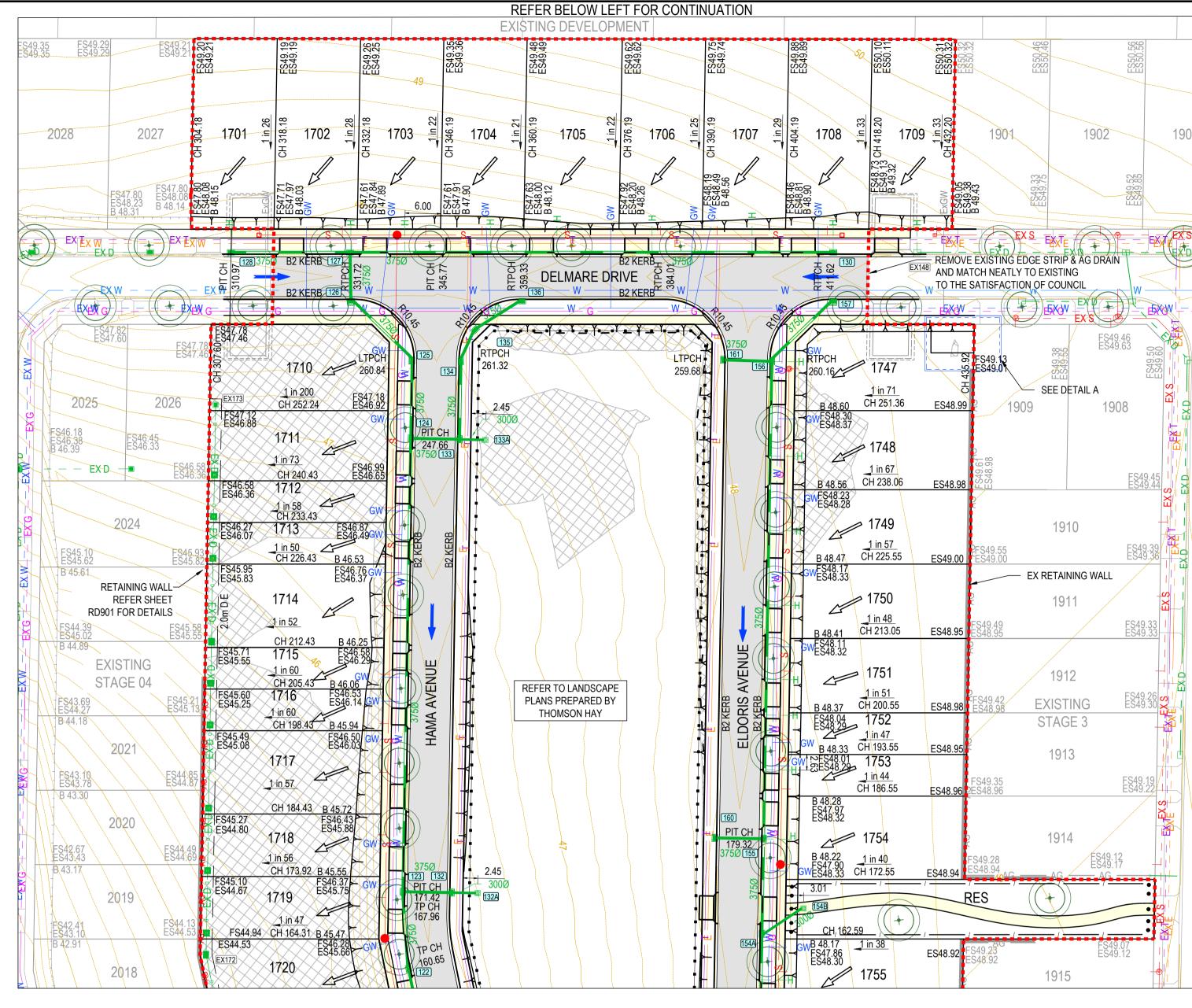




ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE LOT DIMENSION PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

MK MK MM CS 19/11/24





GENERAL DESIGN DETAIL PLAN NOTES **APPLIES IN ALL CASES UNLESS STATED OTHERWISE**

KERB TYPES:

- •• FRONTING LOTS = 450mm B2 AS PER IDM SD 100 ALL KERB RETURNS ARE 8.0m RADIUS TO Bok
- ALL DRIVEWAYS TO LOTS AS PER COGG DESIGN NOTE 4 AND READ IN **CONJUNCTION WITH IDM SD420**
- CROSSOVERS AT RESERVES TO HAVE NO BULL NOSE TO ENSURE THERE IS NO
- HINDRANCE OF PEDESTRIANS USING TO CROSS THE ROAD. • ALL FOOTPATHS CONCRETE & 1.5m WIDE @ 0.05m O/S AS PER IDM SD 205
- PUBLIC OPEN SPACE FENCE TO BE OFFSET 1.0m FROM ROAD RESERVE BOUNDARY AND CONSTRUCTED AS PER CGG709.
- RESERVE BOLLARDS TO BE OFFSET 1.0m FROM ROAD RESERVE BOUNDARY WITH 1.5m SPACINGS.
- REMOVABLE BOLLARDS WITH COUNCIL LOCKS TO BE PROVIDED ADJACENT
- REFER TO STANDARD DRAWING CGG701 FOR TYPICAL BOLLARD DETAIL.
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S BL & SIDE BOUNDARIES. ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES.
- CONTOUR INTERVAL 0.5m @ 1 : 1000 & 0.05m @ 1 : 200 / 1 : 250(A3) WHERE
- RESERVE BOUNDARIES ADJACENT LOTS TO BE FULLY FENCED. REFER TO LANDSCAPING PLANS FOR DETAILS.
- FOR CORNER LOT LEVELS REFER TO INTERSECTION DETAILS SHEETS RD700 AND RD701

WARNING

BEWARE OF UNDERGROUND SERVICES THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.



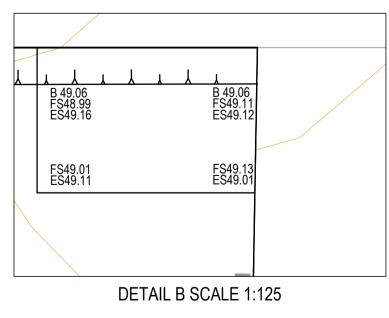
THERE ARE DAMAGES.

FILL > 300mm REQUIRES **LEVEL 1 SUPERVISION**

NOTE: FILL ALLOWS FOR 200mm STRIPPING

CONTRACTOR TO REMOVE ALL TEMPORARY TURNING AREAS INCLUDING INDUSTRIAL CROSSING, LAYBACKS, EDGE STRIPS AND AG DRAINS. REINSTATE LAYBACKS FROM TURNING AREAS WITH B2 KERB AND NATURE STRIP TO COUNCIL SATISFACTION.

CONTRACTOR TO EXERCISE CAUTION WHILE EXISTING LAYBACKS ARE REMOVED AND DURING EXCAVATION/CONSTRUCTION OF PIT 128. PAVEMENT WEARING COURSE TO BE REINSTATED IF



SCALE 1:500 @ A1, 1:1,000 @ A3

LENGTHS ARE IN METRES

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

GREATER GEELONG CITY COUNCIL **PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME**

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 4 of 24 **Approved By Matthew Kirtley Approved Date 21/11/2024**

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 MK MK MM CS 07/10/24 B GENERAL NOTES UPDATED BOLLARDS IN PUBLIC SPACE CHANGED TO FENCE

A PRELIMINARY ISSUE

DES DWG CHK AUTH DATE REVISION

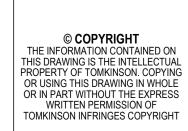




10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM



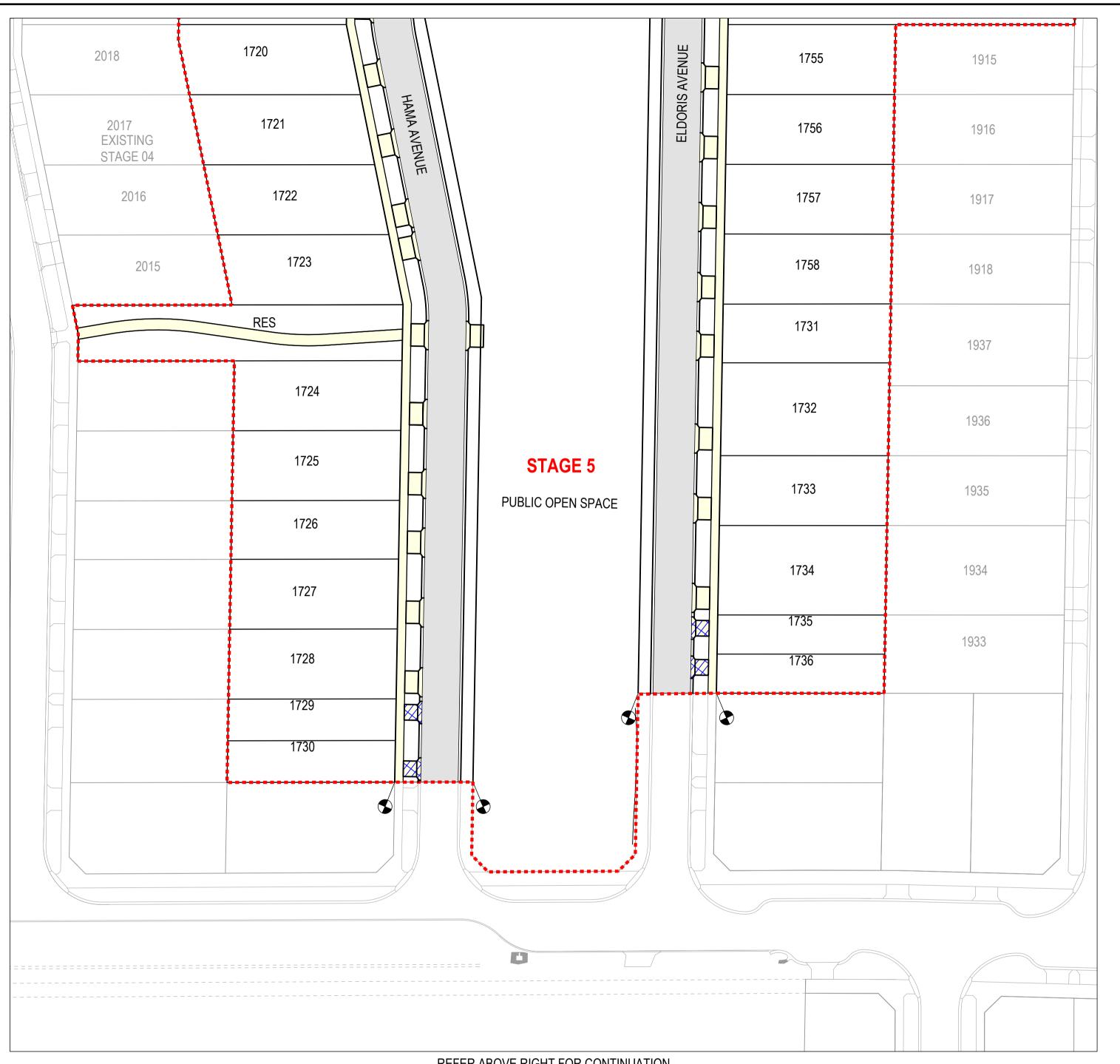


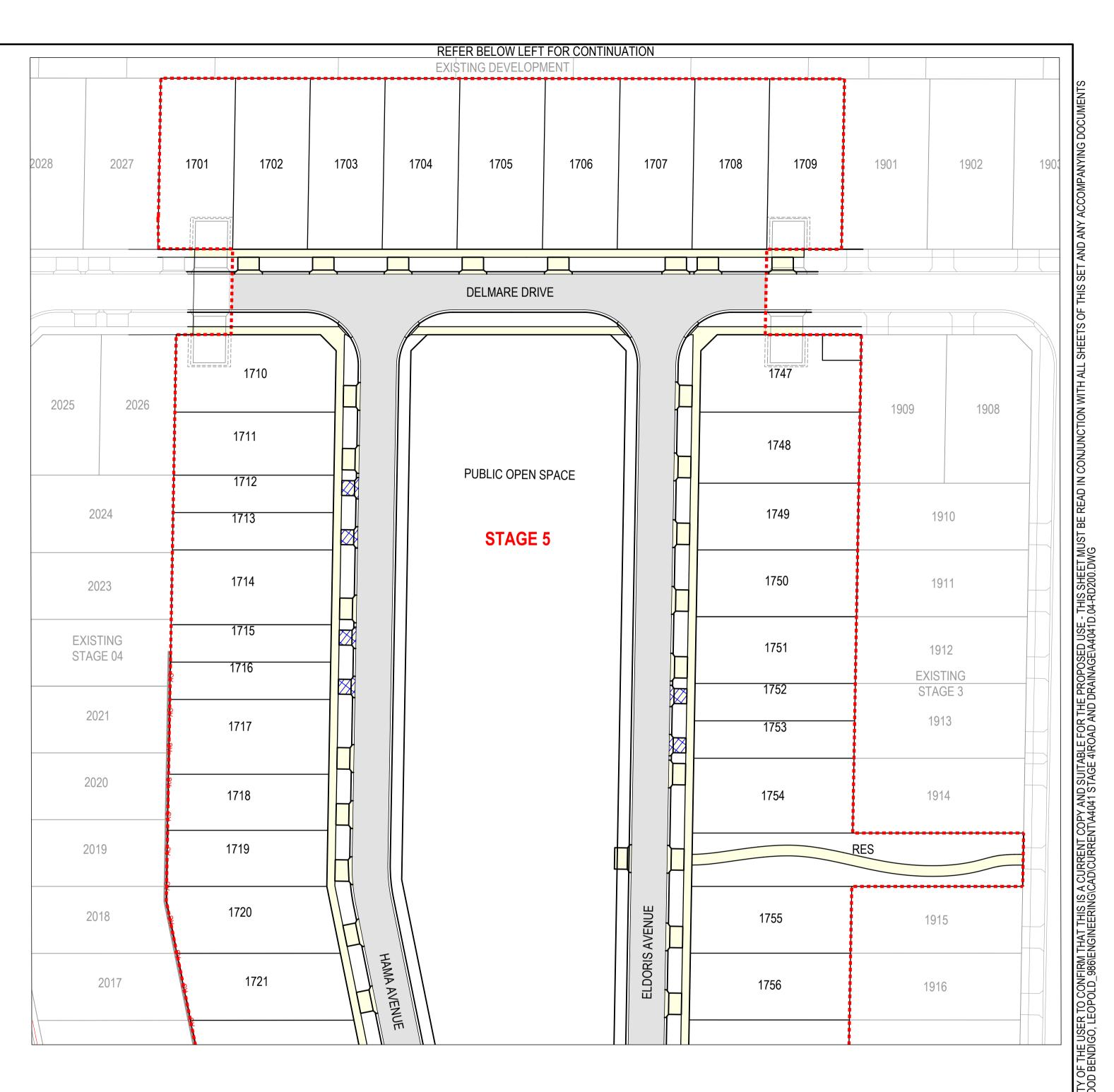






DWG STATUS: PROJECT & DWG No:





REFER ABOVE RIGHT FOR CONTINUATION

_EGE	ND
	STANDARD VEHICLE CROSSING
	NON -STANDARD VEHICLE CROSSING
	FOOTPATH
	ROAD PAVEMENT
	TEMPORARY TURNING HEAD (CONCRETE)
	TEMPORARY TURNING HEAD (GRAVEL)

A PRELIMINARY ISSUE

NON S	STANDARI	O VECHICLE CROSSINGS
LOT NO.	WIDTH (m)	OFFSET FROM NEAREST BOUNDARY(m) + DIRECTION
1712	2.8	1.0 NTH
1713	2.8	1.0 STH
1715	2.8	1.0 NTH
1716	2.8	1.0 STH
1729	2.8	1.0 NTH
1730	2.8	1.0 STH
1735	2.8	1.0 NTH
1736	2.8	1.0 NTH
1752	2.8	1.0 NTH
1753	2.8	1.0 STH

MK MK MM CS 03/09/24

DES DWG CHK AUTH DATE

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 **GREATER GEELONG PLANNING SCHEME**

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 5 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

MK MK MM CS 19/11/24 0 ISSUED FOR CONSTRUCTION

REVISION

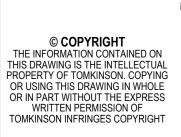




10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM



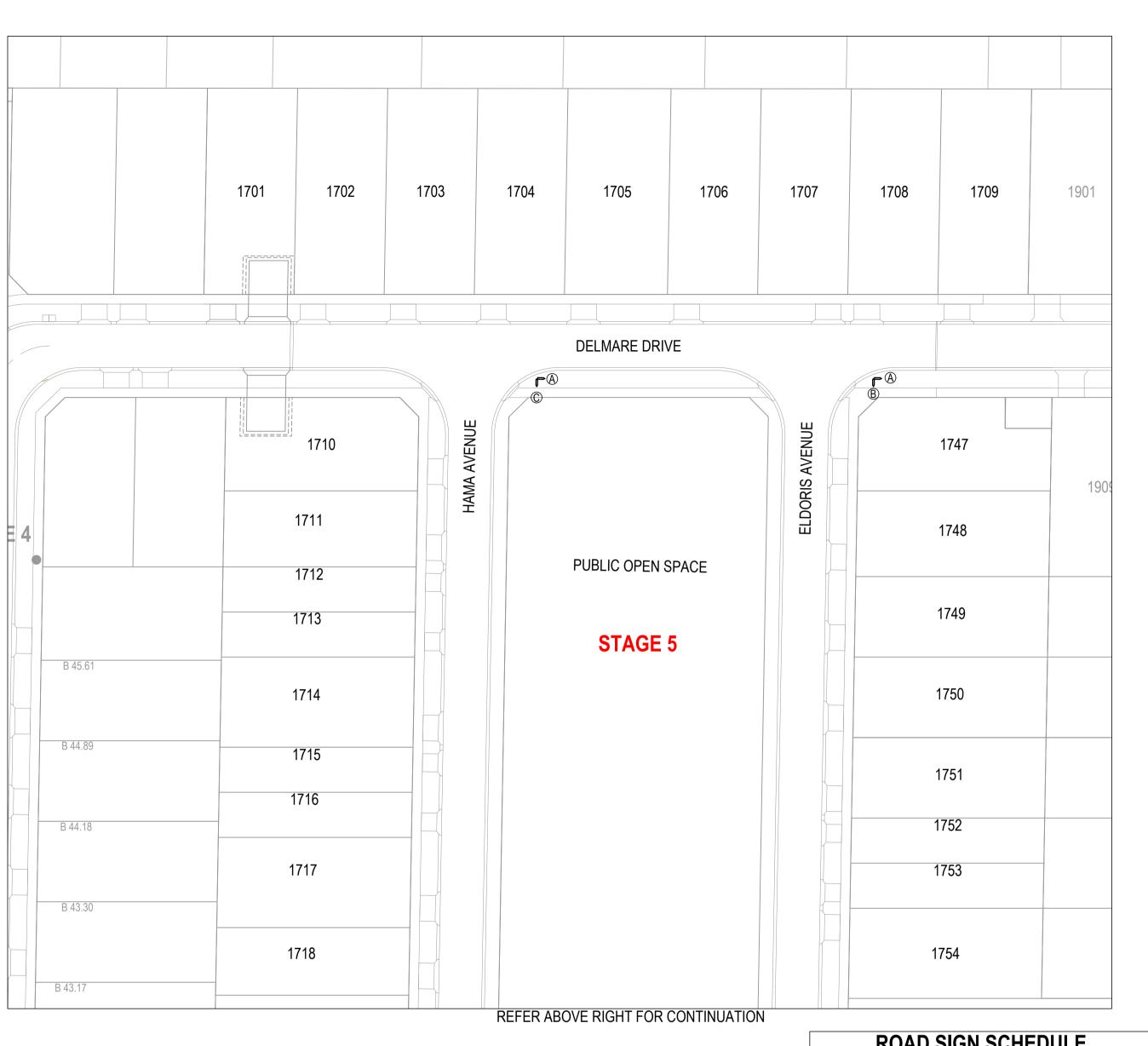




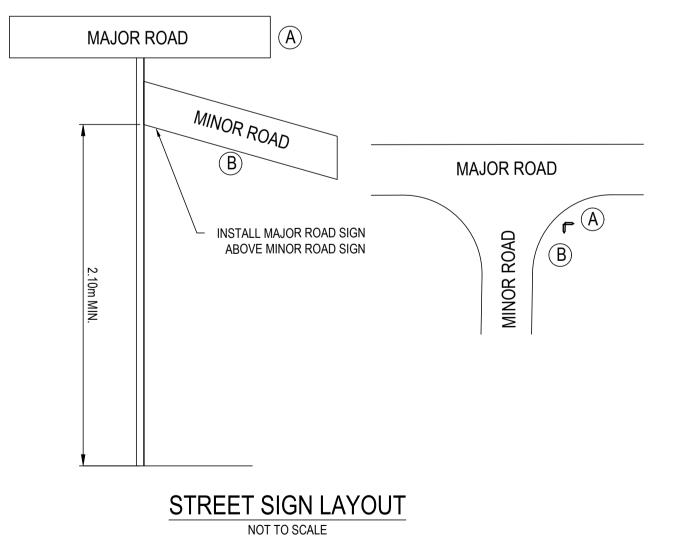


ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE NON-STANDARD DRIVEWAYS PLAN
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:







STRE	ET SIGN SCHEDULE	
SIGN	SIGN NAME	QTY
Α	DELMARE DR	2
В	ELDORIS AVE	1
С	HAMA AVE	1



SIGNAGE & LINEMARKING NOTES:

- 90° BENDS TO HAVE CENTRE LINEMARKING WITH RRPM'S AT MAX 6m SPACING. RRPM'S TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL. 2.
- ALL LINEMARKING AND SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.
- 4. 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 CGG710 - 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

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 6 of 24 Approved By Matthew Kirtley

Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION

MK MK MM CS 19/11/24 B TITLE BLOCK AND ROAD SIGNAGE AS PER COGG COMMENTS UPDATED MK MK MM CS 07/10/24

A PRELIMINARY ISSUE DES DWG CHK AUTH DATE REVISION

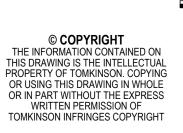




10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM





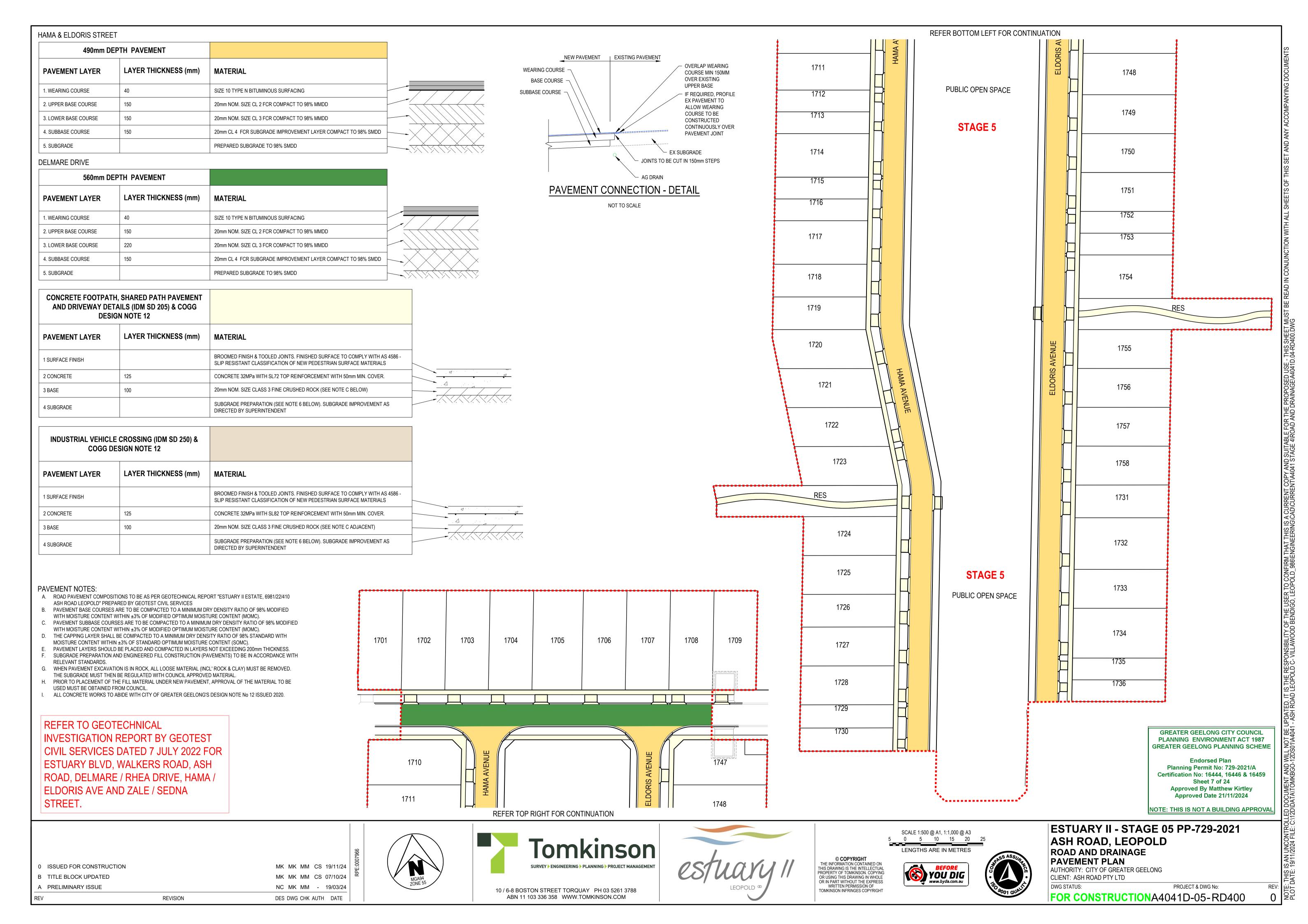


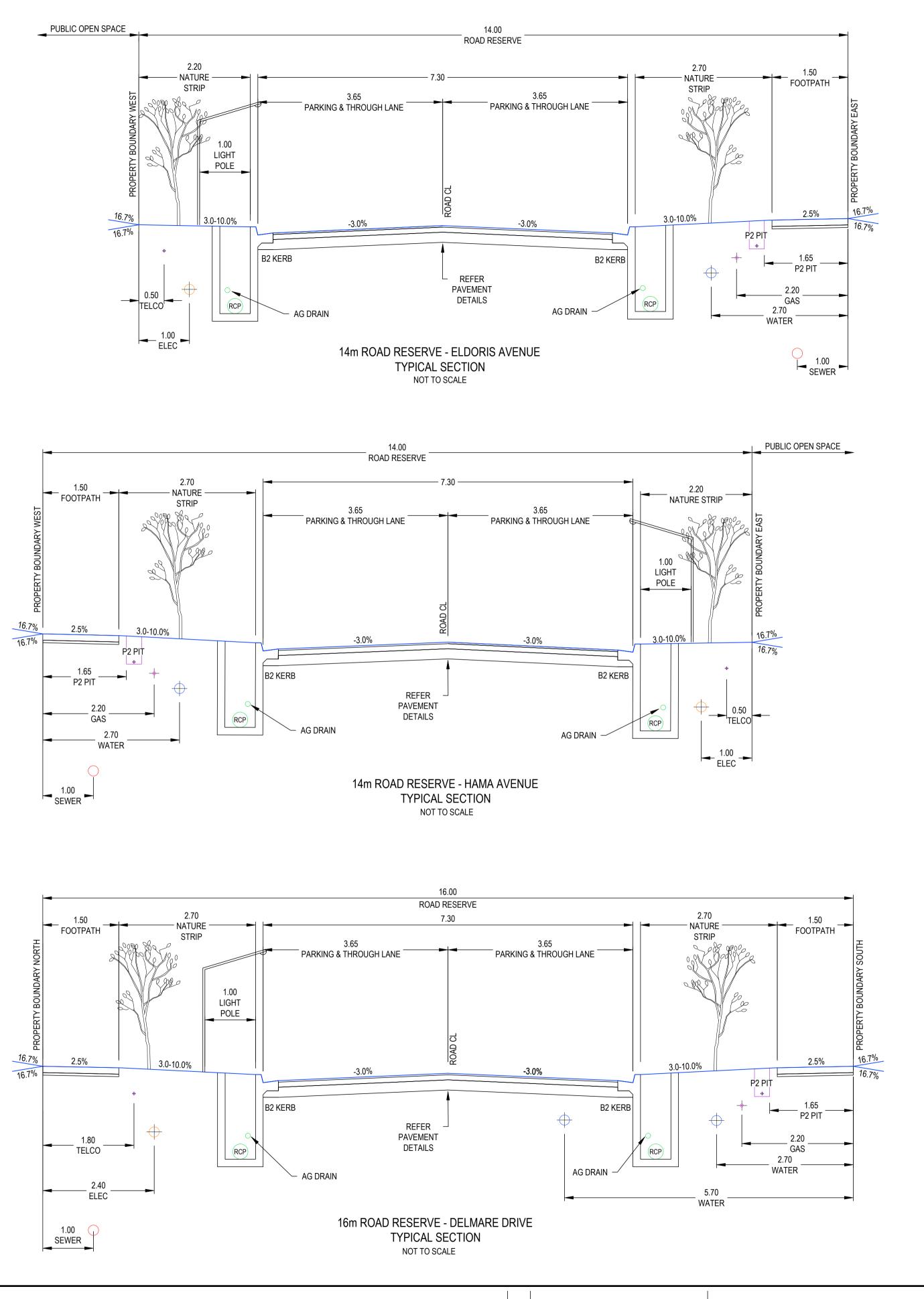


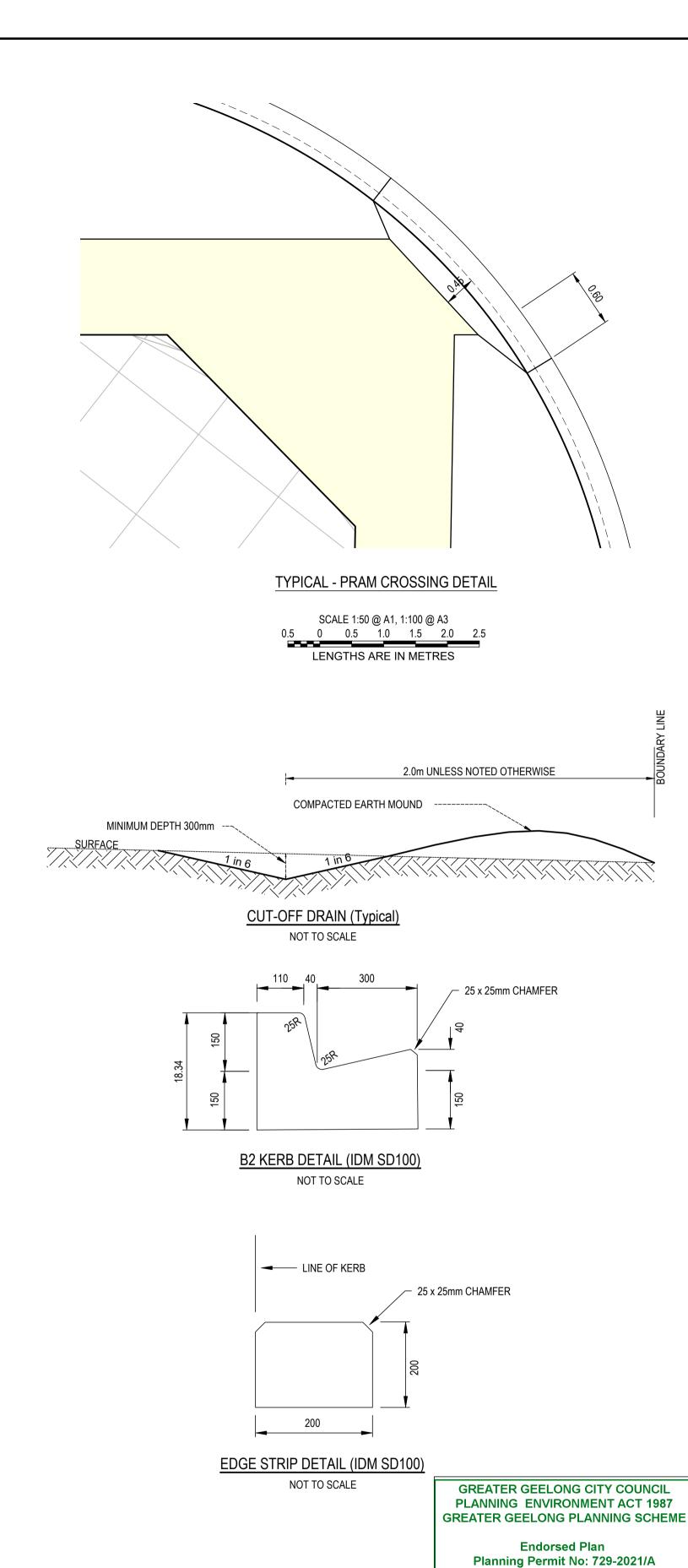


SIGNAGE AND LINEMARKING PLAN AUTHORITY: CITY OF GREATER GEELONG CLIENT: ASH ROAD PTY LTD

DWG STATUS: PROJECT & DWG No:



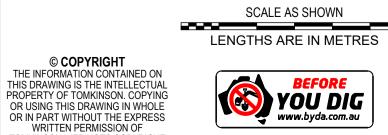












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DWG STATUS: PROJECT & DWG No:

FOR CONSTRUCTIONA4041D-05-RD500

Certification No: 16444, 16446 & 16459

Sheet 8 of 24

Approved By Matthew Kirtley

Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

A PRELIMINARY ISSUE REVISION DES DWG CHK AUTH DATE

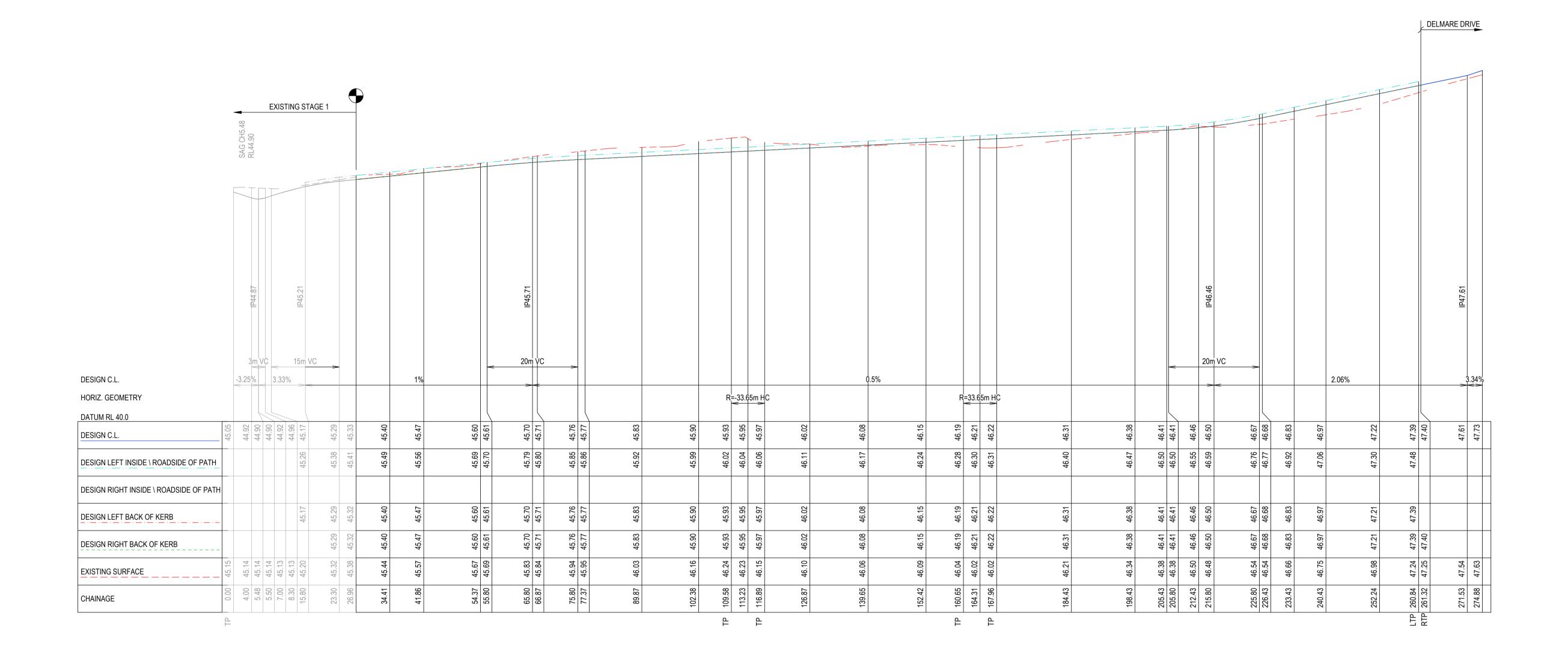
0 ISSUED FOR CONSTRUCTION

B TITLE BLOCK UPDATED

MK MK MM CS 19/11/24

MK MK MM CS 07/10/24

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

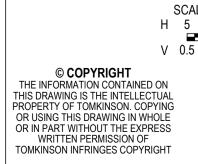


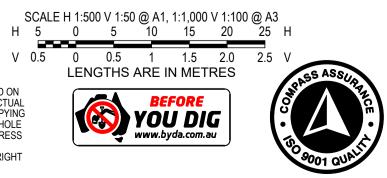
Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 9 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL











ROAD LONGITUDINAL SECTION-HAMA AVENUE AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:

FOR CONSTRUCTIONA4041D-05-RD600

A PRELIMINARY ISSUE NC MK MM - 19/03/24 10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788 ABN 11 103 336 358 WWW.TOMKINSON.COM REVISION DES DWG CHK AUTH DATE

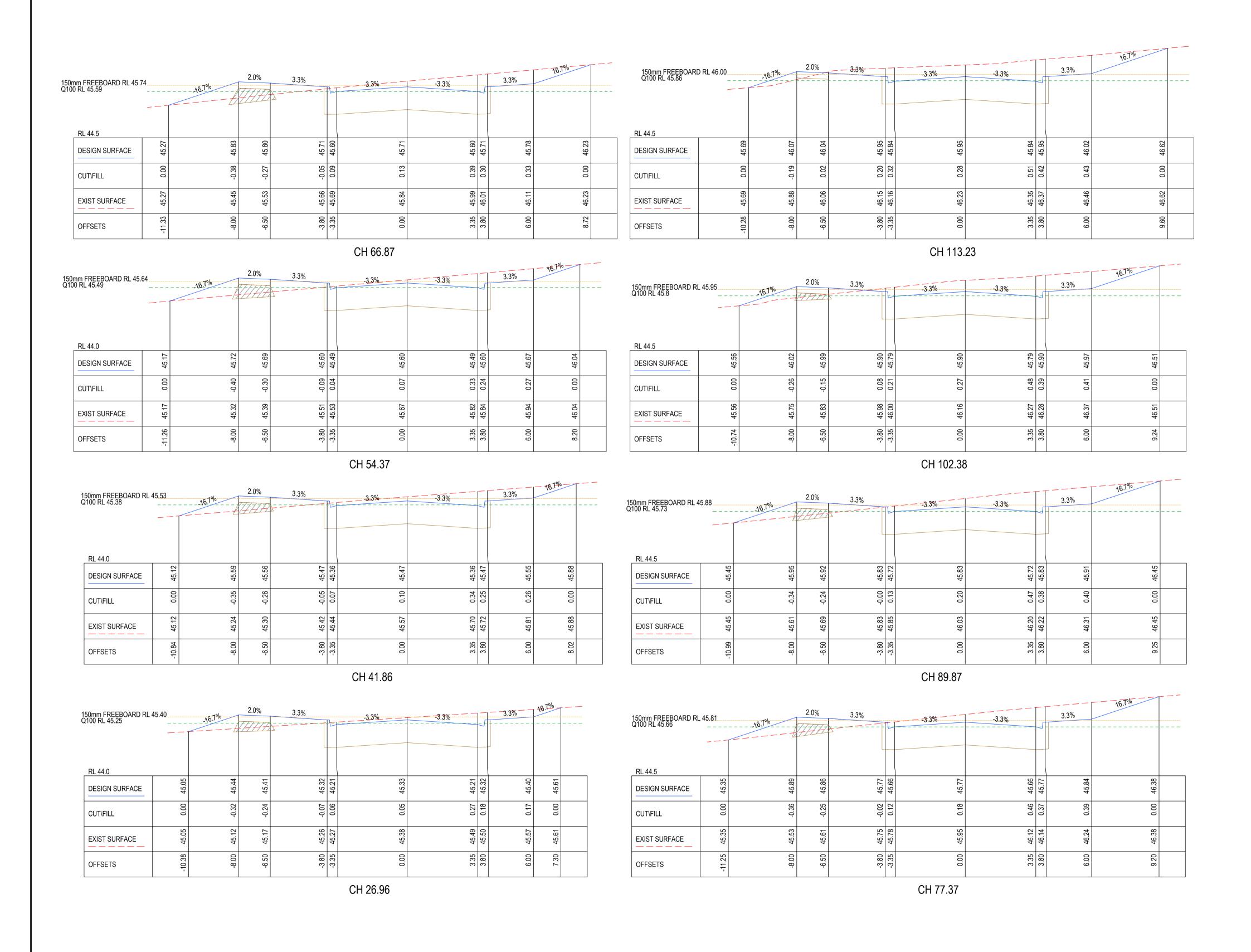
MK MK MM CS 19/11/24

MK MK MM CS 07/10/24

0 ISSUED FOR CONSTRUCTION

B TITLE BLOCK AND LONG SECTION UPDATED





Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 10 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

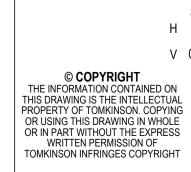
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK AND CROSS SECTIONS UPDATED A PRELIMINARY ISSUE DES DWG CHK AUTH DATE REVISION

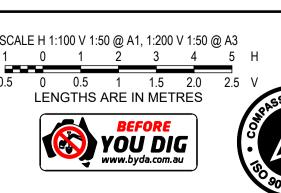


10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM





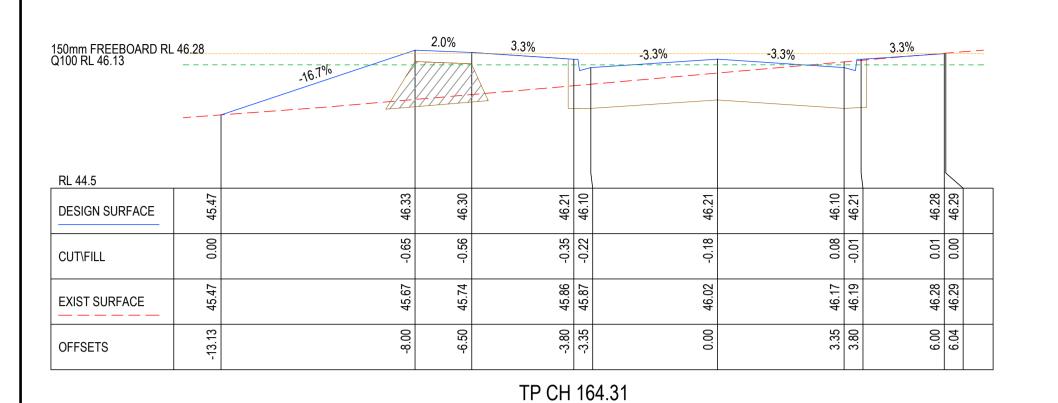




ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 1 OF 2
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:





					-						
150mm FREEBOARD RL Q100 RL 46.07	_ 46.22		2.0%	3.3%	- - -	-3.3%		L.f		5.7%	
RL 44.5											
DESIGN SURFACE	45.57	46.27	46.24	46.15	46.04	46.15	46.04	46.15	46.22	46.31	
CUT\FILL	0.00	-0.50	-0.41	-0.20	-0.07	-0.05	0.17	0.07	0.07	0.00	
EXIST SURFACE	45.57	45.76	45.83	45.95	45.96	46.09	46.20	46.22	46.29	46.31	
OFFSETS	-12.16	8-00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	6.53	

150mm FREEBOARD RL Q100 RL 46	46.15		2.0%	3.3%		-3.3%	-3.3%		3.3%	16.7%	
RL 44.5 DESIGN SURFACE	45.63	46.20	46.17	46.08	45.97	46.08	45.97	46.08	46.16	46.31	
CUT\FILL	0.00	-0.43	-0.34	-0.15	-0.02	-0.02	0.20	0.11	0.12	00:00	
EXIST SURFACE	45.63	45.78	45.84	45.94	45.95	46.06	46.18	46.19	46.27	46.31	
OFFSETS	-11.41	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	96.9	

CH 152.42

					C	CH 139.65					
150mm FREEBOARD RL Q100 RL 45.93	- 46.08 		2.0%	3.3%	7=	3.3%	-3.3%		3.3%	16.7%	
RL 44.5											
DESIGN SURFACE	45.62	46.14	46.11	46.02	45.91	46.02	45.91	46.02	46.09	46.44	
CUT\FILL	0.00	-0.38	-0.29	-0.08	0.05	0.08	0.34	0.24	0.26	0.00	
EXIST SURFACE	45.62	45.75	45.82	45.94	45.96	46.10	46.24	46.26	46.35	46.44	
OFFSETS	-11.12	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	8.10	

CH 126.87

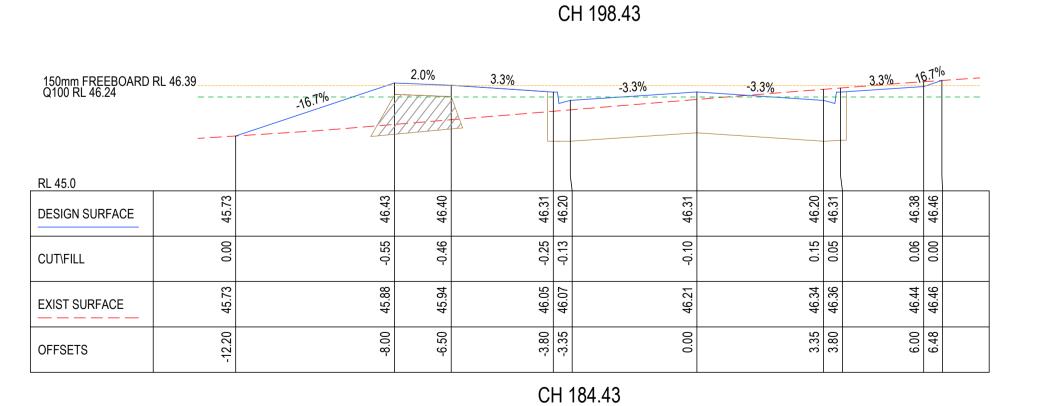
MK MK MM CS 19/11/24

50mm FREEBOARD RL Q100 RL 46.63	46.79 	_16.7%	2.0%	3.3%		-3.3%	-3.3%	F	3.3%
RL 45.0									
DESIGN SURFACE	46.50	46.80	46.77	46.68	46.57	46.68	46.57	46.68	46.76
CUT\FILL	-0.17	-0.44	-0.37	-0.22	-0.10	-0.14	0.05	-0.05	-0.08
EXIST SURFACE	46.33	46.37	46.40	46.46	46.47	46.54	46.62	46.63	46.68
OFFSETS	-9.82	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	00.9

150mm FREEBOARD RL Q100 RL 46.41	46.57 		2.0%	3.3%			3.3%	<u></u>	3.3%	46.7%	
RL 45.0											
DESIGN SURFACE	46.25	46.58	46.55	46.46	46.35	46.46	46.35	46.46	46.54	46.69	
CUT\FILL	0.00	-0.29	-0.23	-0.07	0.05	0.04	0.24	0.14	0.13	0.00	
EXIST SURFACE	46.25	46.29	46.33	46.40	46.41	46.50	46.59	46.60	46.66	46.69	
OFFSETS	-10.01	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	6.92	
					CI	H 212.43	1	1			

CH 226.43

150mm FREEBOARD RL 46.4 Q100 RL 46.32	47 		2.0%	3.3%		-3.3%		- f	3.3%^	6.7% 	
RL 45.0 DESIGN SURFACE	45.94	46.50	46.47	46.38	46.27	46.38	46.27	46.38	46.45	46.57	
CUT\FILL	0.00	-0.47	-0.38	-0.19	90:0-	-0.04	0.19	0.10	0.09	00.00	
EXIST SURFACE	45.94	46.03	46.08	46.19	46.21	46.34	46.46	46.47	46.54	46.57	
OFFSETS	-11.36	-8.00	-6.50	-3.80	-3.35	00:0	3.35	3.80	6.00	6.70	



150mm FREEBOARD RL Q100 RL 47.34	47,49 6.1%	2.0%	3.3%	H	-3.3%	-3.3%	1	3.3%	16.7%
RL 46.0									
DESIGN SURFACE	47.51	47.48	47.39	47.28	47.39	47.28	47.39	47.47	
CUT\FILL	-0.34	-0.30	-0.19	-0.07	-0.16	-0.01	-0.12	-0.17	
EXIST SURFACE	47.17	47.18	47.21	47.21	47.24	47.27	47.27	47.29	
OFFSETS	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	
					LTP CH 260.8	34			

0mm FREEBOARD RL 00 RL 47.16	47.31	2.0%	3.3%	H	-3.3%	-3.3%	<u> </u>	3.3%	0.7%
		<u> </u>							
L 45.5				$ \ $					
ESIGN SURFACE	47.33	47.30	47.21	47.10	47.22	47.10	47.21	47.29	
UT\FILL	-0.42	-0.38	-0.26	-0.15	-0.23	-0.09	-0.20	-0.24	
XIST SURFACE	46.92	46.93	46.95	46.95	46.98	47.01	47.02	47.05	
FFSETS	8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.00	

CH 252.24

150mm FREEBOARD RL Q100 RL 46.92	47.07 <u>-1.7%</u> 	2.0%	3.3%	H	3.3%	-3.3%	5	3.3%	<u>1.7%</u> <u>_</u>
RL 45.5									
DESIGN SURFACE	47.09	47.06	46.97	46.86	46.97	46.86	46.97	47.04	
CUT\FILL	-0.44	-0.39	-0.27	-0.16	-0.22	-0.06	-0.16	-0.20	
EXIST SURFACE	46.65	46.67	46.70	46.71	46.75	46.80	46.81	46.85	
OFFSETS	-8.00	-6.50	-3.80	-3.35	0:00	3.35	3.80	6.00	
		1	1		CH 240.43				

PLANNING ENVIRONMENT ACT 1987 **GREATER GEELONG PLANNING SCHEME Endorsed Plan** Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459

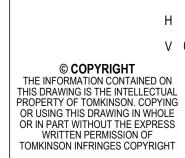
Sheet 11 of 24

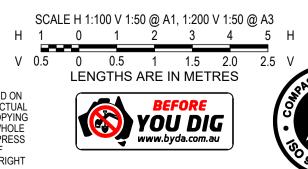
Approved By Matthew Kirtley Approved Date 21/11/2024

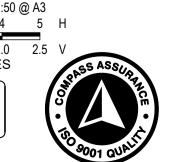
NOTE: THIS IS NOT A BUILDING APPROVAL

Tomkinson SURVEY | ENGINEERING | PLANNING | PROJECT MANAGEMENT









ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD

ROAD AND DRAINAGE ROAD CROSS SECTIONS-HAMA AVENUE - SHEET 2 OF 2
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:

FOR CONSTRUCTIONA4041D-05-RD602

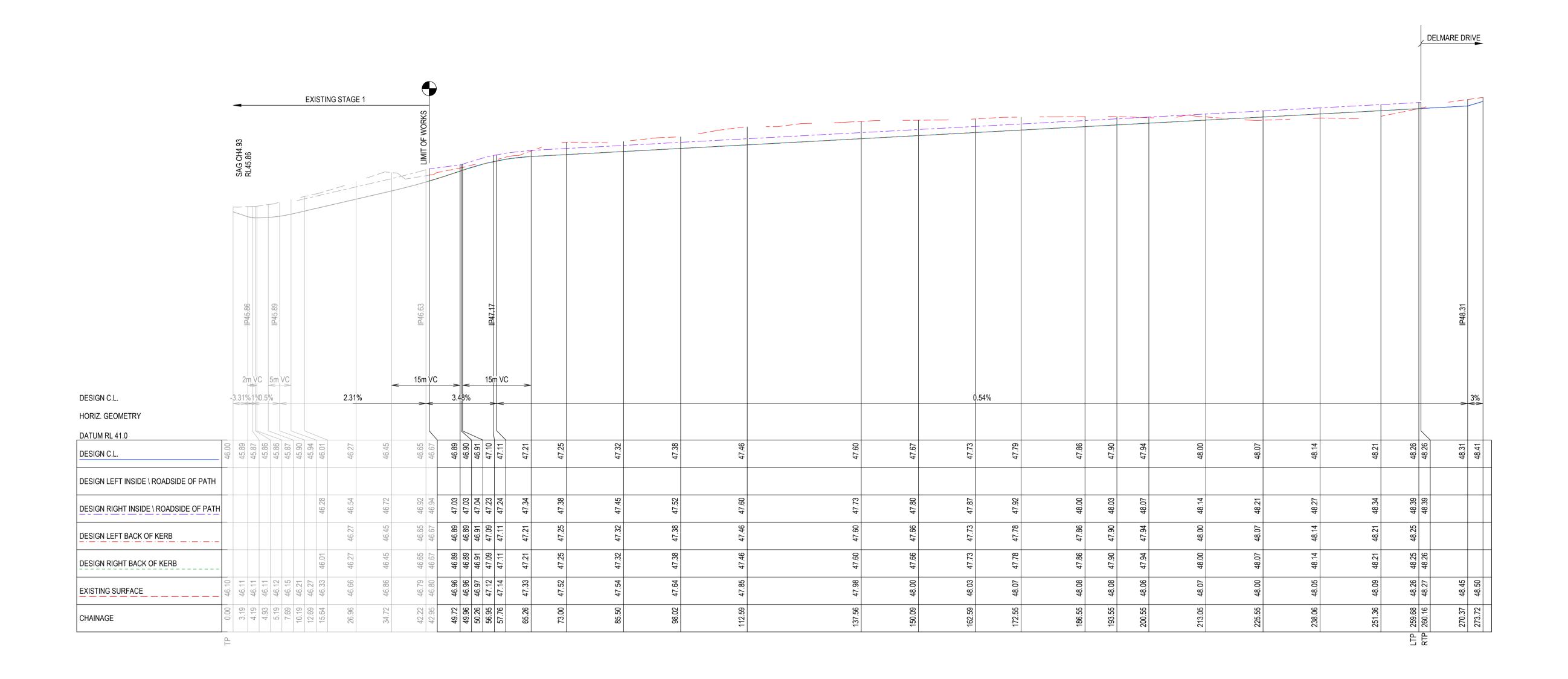
A PRELIMINARY ISSUE NC MK MM - 19/03/24 REVISION DES DWG CHK AUTH DATE

0 ISSUED FOR CONSTRUCTION

B TITLE BLOCK AND CROSS SECTIONS UPDATED

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

GREATER GEELONG CITY COUNCIL



Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 12 of 24

Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

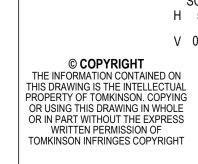
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK AND LONG SECTION UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE NC MK MM - 19/03/24 REVISION DES DWG CHK AUTH DATE

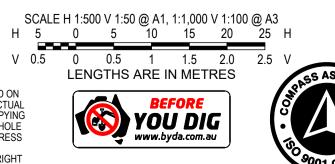


10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM



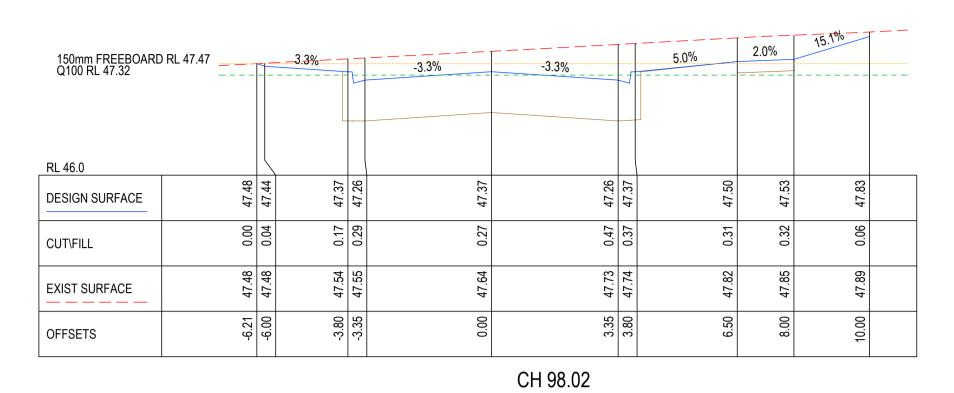




ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD

ROAD AND DRAINAGE ROAD LONGITUDINAL SECTION-ELDORIS AVENUE AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:



150mm FREEBOARD RL4 Q100 RL47.63	47.78	33% —		-3.3%	-3.3%		5.0%	2.0%	13.7%	
RL 46.5										
DESIGN SURFACE	47.80	47.80	47.62	47.73	47.62	47.73	47.87	47.90	48.17	
CUT\FILL	0.00	00.0-	0.10	0:30	0.52	0.42	0.38	0.41	0.21	
EXIST SURFACE	47.80	47.80	47.91	48.03	48.14	48.16	48.25	48.30	48.38	
OFFSETS	-6.02	9.00	-3.35	0:00	3.35	3.80	6.50	8.00	10.00	

CH 162.59

150mm FREEBOARD RL4 Q100 RL47.82	17.97	-16.7%	3.3%		3,3%	-3.3%	—	5.0%	2.0%	43.3%	-
RL 46.5	-	_	4	3	4		4	7	0	2	
DESIGN SURFACE	47.81	48.01	47.94	47.83	47.94	47.83	47.94	48.07	48.10	48.37	
CUT\FILL	0.00	-0.16	-0.01	0.12	0.12	0.34	0.24	0.18	0.18	-0.04	
EXIST SURFACE	47.81	47.85	47.93	47.94	48.06	48.17	48.18	48.25	48.29	48.33	
OFFSETS	-7.18	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

150mm FREEBOARD Q100 RL 47.26	RL 47.41				-3.3%	-3.3%		5.0%	2.0%	14.7%	
RL 46.0											
DESIGN SURFACE	47.40	47.38	47.30	47.19	47.31		47.13	47.44	47.47	47.77	
CUT\FILL	0.00	0.03	0.15	0.27	0.23	ć	0.42	0.24	0.24	-0.02	
EXIST SURFACE	47.40	47.41	47.45	47.46	47.54	7	47.01	47.68	47.71	47.75	
OFFSETS	-6.15	-6.00	-3.80	-3.35	00:00	C	20.00	2 09	8.00	10.00	

CH 85.5

150mm FREEBOARD RI Q100 RL47.57	_47.72	6.7%	4 —3. 3 %—		-3.3%	-3.3%		5.0%	2.0%	14.1%	
RL 46.5											
DESIGN SURFACE	47.78	47.74	47.66	47.55	47.67	47.55	47.66	47.80	47.83	48.11	
CUT\FILL	00:0	0.05	0.20	0.33	0.34	0.57	0.47	0.44	0.46	0.25	
EXIST SURFACE	47.78	47.79	47.87	47.88	48.00	48.12	48.14	48.24	48.29	48.36	
OFFSETS	-6.25	00'9-	-3.80	-3.35	0:00	3.35	3.80	6.50	8.00	10.00	

150mm FREEBOARD RL Q100 RL47.78	47.93 ـ 47.93	6.7%	3.3%			-3.3%		5.0%	2.0%	- 13.3% -	
Q100 RL47.78	=_=_			-	0.075						
RL 46.5				1							
DESIGN SURFACE	47.86	47.97	47.90	47.79	47.90	05 54	47.79	48.03	48.06	48.33	
CUT\FILL	0.00	-0.09	90.0	0.18	0.18	o c	00	0.22	0.23	0.01	
EXIST SURFACE	47.86	47.88	47.96	47.97	48.08	10	40. 7	48.25	48.29	48.34	
OFFSETS	-6.64	-6.00	-3.80	-3.35	0.00	200	3.80	6.50	8.00	10.00	

CH 200.55

50mr 100	m FREEBOARD RL 47.3 RL 47.2	35	16.7%	3.3%		-3.3%	-3.3%	-5	5,0%	2.0%	40.1%	
_	RL 46.0											
	DESIGN SURFACE	47.56	47.32	47.24	47.13	47.24	47 13	47.24	47.38	47.41	47.61	
	CUT\FILL	0.00	0.23	0.28	0.39	0.27	0.45	0.34	0.17	0.15	-0.02	
	EXIST SURFACE	47.56	47.55	47.53	47.52	47.52	47.58	47.58	47.55	47.56	47.59	
	OFFSETS	-7.48	-6.00	-3.80	-3.35	0.00	335	3.80	6.50	8.00	10.00	

						CH 150.09			_ — — —	<u>-</u> -
150mm FREEBOARD RI Q100 RL47.51	_47. <u>66— </u>	¹ 6.7	%3.3 %	- 1	-3.3%	-3.3%	1	5.0%	2.0%	14.5%
RL 46.0	2	7	0	6	0	6	0	3	9	Q
DESIGN SURFACE	47.75	47.67	47.60	47.49	47.60	47.49	47.60	47.73	47.76	48.05
CUT\FILL	0.00	0.10	0.25	0.37	0.38	09:0	0.51	0.45	0.47	0.25
EXIST SURFACE	47.75	47.77	47.84	47.86	47.98	48.09	48.10	48.19	48.23	48.30
OFFSETS	-6.47	-6.00	-3.80	-3.35	0:00	3.35	3.80	6.50	8.00	10.00

CH 137.56

150mm FREEBOARD RL4 Q100 RL47.68	47.83				-3.3%	-3.3%	<u> </u>	5.0%	2.0%	13.3%	
RL 46.5								P			
DESIGN SURFACE	47.85	47.86	47.78	47.67	47.79	47.67	47.78	47.92	47.95	48.22	
CUT\FILL	0.00	-0.00	0.15	0.28	0.28	0.50	0.41	0.36	0.38	0.18	
EXIST SURFACE	47.85	47.85	47.94	47.95	48.07	48.18	48.19	48.28	48.33	48.39	
OFFSETS	-6.03	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	
						CH 172 55					

							CH 73						
50m 2100	nm FREEBOARD RL 47.18) RL 47.03	3		3.3%		3.3%			+	5.0%		4.4%	
	RL 45.5 DESIGN SURFACE	47.14	7.17	47.09	46.98	47.09		46.98	47.09	47.23	47.26	47.35	
	CUT\FILL	0.00	-0.02 47	0.03	0.14 4	0.03		_	0.17 4	0.13	0.07	-0.07	
	EXIST SURFACE	47.14	47.15	47.13	47.13	47.12		47.24	47.26	47.36	47.33	47.28	
	OFFSETS	-6.14	-6.00	-3.80	-3.35	0:00		3.35	3.80	6.50	8.00	10.00	
							CH 56.95						

150mm FREEBOARD RL Q100 RL47.39	.47.54 	16.70	3.3%	-	-3.3%	-3.3%		5.0%	2.0%	14.5%	
RL 46.0											
DESIGN SURFACE	47.65	47.53	47.46	47.35	47.46	47.35	47.46	7 60	47.63	47.91	
CUT\FILL	0.00	0.13	0.27	0.40	0.39	0.81	0.0	10.0	0.49	0.26	
EXIST SURFACE	47.65	47.67	47.74	47.75	47.85	47 96 47 96	47.07	70 87	48.11	48.17	
OFFSETS	-6.67	-6.00	-3.80	-3.35	0.00	د. بر	0000	000	8.00	10.00	
		'				CH 112.59	•	,			

CH 1/2.55

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 **GREATER GEELONG PLANNING SCHEME**

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 13 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

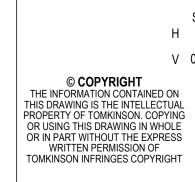
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK AND CROSS SECTIONS UPDATED A PRELIMINARY ISSUE NC MK MM - 19/03/24 DES DWG CHK AUTH DATE REVISION

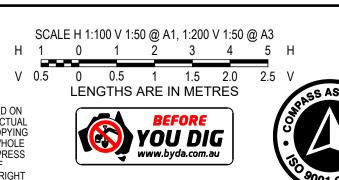


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ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD

ROAD AND DRAINAGE ROAD CROSS SECTIONS-ELDORIS AVENUE - SHEET 1 OF 2

AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:

150mm FREEBOARD RL Q100 RL48.06	.48.21 - — —		3.3%		-3.3%	-3.3%		5.0%	2.0%	11.1%	
RL 47.0											
DESIGN SURFACE	47.84	48.28	48.21	48.10	48.21	48.10	48.21	48.34	48.37	48.60	
CUT\FILL	00:0	-0.38	-0.25	-0.13	-0.12	11.0	0.01	-0.03	-0.01	-0.16	
EXIST SURFACE	47.84	47.90	47.96	47.97	48.09	48.21	48.22	48.32	48.37	48.44	
OFFSETS	79:8-	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

CH 251.36

150mm FREEBOARD RL Q100 RL48		-16.7%	3.3%		-3.3%	-3.3%	J.	5.0%	2.0%	13.0%	
RL 46.5 DESIGN SURFACE	47.80	48.21	48.14	48.03	48.14	48.03	48.14	48.27	48.30	48.56	
CUT\FILL	0.00	-0.34	-0.20	-0.08	60.0-	0.12	0.02	-0.03	-0.02	-0.22	
EXIST SURFACE	47.80	47.87	47.94	47.95	48.05	48.15	48.16	48.24	48.28	48.34	
OFFSETS	-8.46	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

150mm FREEBOARD RL Q100 RL47.94	.48.09 		3.3%		-3.3%			5.0%		11.8%	
RL 46.5											
DESIGN SURFACE	47.74	48.14	48.07	47.96	48.07	47.96	48.07	48.21	48.24	48.47	
CUT\FILL	0.00	-0.33	-0.18	-0.06	-0.07	0.19	0.10	60:0	0.10	-0.08	
EXIST SURFACE	47.74	47.82	47.89	47.90	48.00	48.15	48.17	48.29	48.33	48.39	
OFFSETS	-8.40	-6.00	-3.80	-3.35	0:00	3.35	3.80	6.50	8.00	10.00	

CH 225.55

150mm FREEBOARD RL Q100 RL47.88		-16.7%	3.3%		3.3%		<u></u>	5.0%	2.0%	42.0%	
RL 46.5 DESIGN SURFACE	47.80	48.08	48.00	47.89	48.00	47.89	48.00	48.14	48.17	48.41	
CUT\FILL	0.00	-0.22	-0.07	0.05	0.07	0.31	0.23	0.15	0.15	90:0-	
EXIST SURFACE	47.80	47.86	47.93	47.95	48.07	3548.21	80 48.23	5048.29	.0048.32	10.0048.35	
OFFSETS	-7.64	-6.00	-3.80	-3.35	0.00	ਲੇ	3.6	9	8	10.	

CH 213.05

150mm FREEBOARD RL Q100 RL48.1	.48.25 	16.7%	3.3%		-3.3%	3.3%		5.0%	2.0%	8.3%	
RL 47.0											
DESIGN SURFACE	48.03	48.33	48.25	48.14	48.26	48.14	48.25	48.39	48.42	48.58	
CUT\FILL	0.00	-0.24	-0.11	0.02	0.00	0.23	0.13	60:0	0.10	-0.01	
EXIST SURFACE	48.03	48.08	48.15	48.16	48.26	48.37	48.39	48.48	48.52	48.58	
OFFSETS	77.7-	-6.00	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	10.00	

CH 259.68

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A
Certification No: 16444, 16446 & 16459
Sheet 14 of 24
Approved By Matthew Kirtley
Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

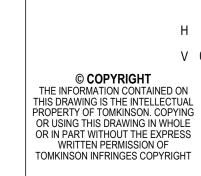
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK AND CROSS SECTIONS UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE NC MK MM - 19/03/24 DES DWG CHK AUTH DATE REVISION

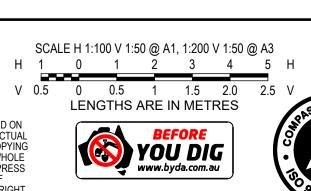


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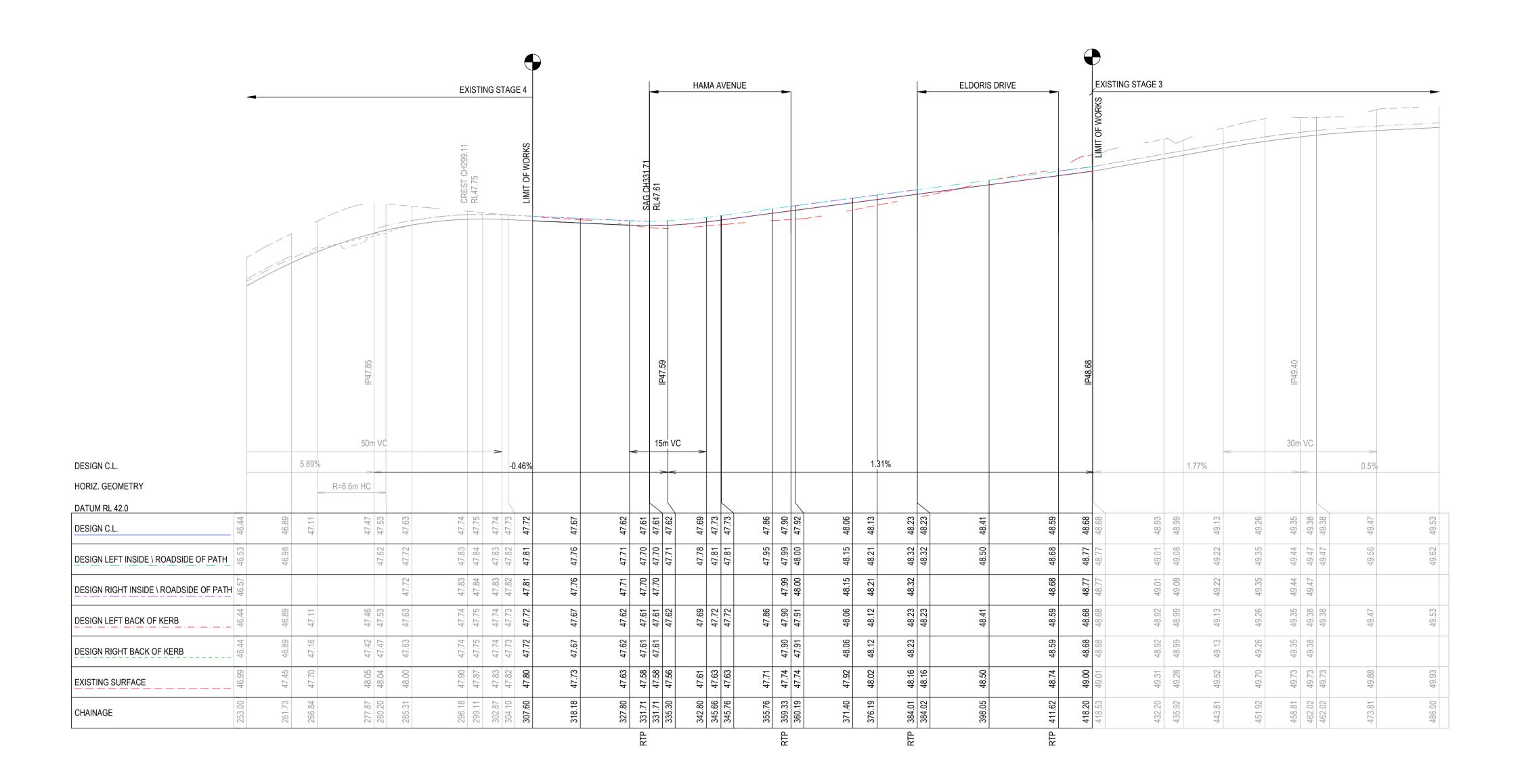
ROAD AND DRAINAGE ROAD CROSS SECTIONS-ELDORIS AVENUE - SHEET 2 OF 2

AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD

DWG STATUS:

PROJECT & DWG No: FOR CONSTRUCTIONA4041D-05-RD612



Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 15 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

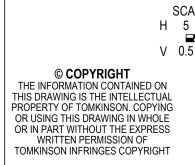
NOTE: THIS IS NOT A BUILDING APPROVAL

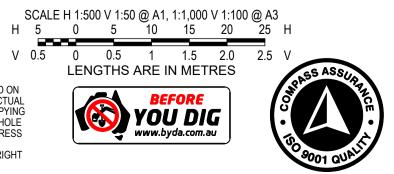


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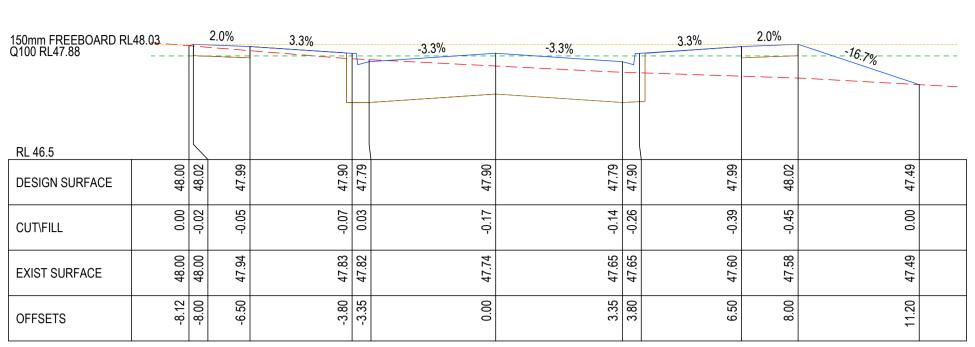
ROAD AND DRAINAGE ROAD LONGITUDINAL SECTION-DELMARE DRIVE AUTHORITY: CITY OF GREATER GEELONG CLIENT: ASH ROAD PTY LTD

DWG STATUS: PROJECT & DWG No:

FOR CONSTRUCTIONA4041D-05-RD620

MK MK MM CS 19/11/24

0 ISSUED FOR CONSTRUCTION



RTP CH 359.33

150mm FREEBOARD RL48.7 Q100 RL48.61	 	11/1/6	2.0%	3.3%		-3.3%	-3.3%	<u></u>	3.3%	- 2. 0% —	6.0%	
RL 47.5					$ \ $			\	(
DESIGN SURFACE	49.29	48.80	48.77	48.68	48.57	48.68	48.57	48.68	48.77	48.80	48.87	
CUT\FILL	0.00	0.33	0.33	0.38	0.48	0.32	0.38	0.27	0.14	60:0	-0.00	
EXIST SURFACE	49.29	49.13	49.10	49.06	49.05	49.00	48.95	48.95	48.91	48.88	48.87	
OFFSETS	-10.94	-8.00	-6.50	-3.80	-3.35	00:00	3.35	3.80	6.50	8.00	9.20	

150mm FREEBOARD RL Q100 RL47.57		16,7%	2.0%	3.3%		3.3%	-3.3%	<u>-</u> f	3.3%	2.0%	
RL 46.0						(
DESIGN SURFACE	47.87	47.73	47.70	47.61	47.50	47.61	47.50	47.61	47.70	47.73	
CUT\FILL	0.00	0.11	0.09	0.09	0.18	-0.04	-0.01	-0.13	-0.28	-0.35	
EXIST SURFACE	47.87	47.85	47.79	47.70	47.69	47.58	47.50	47.49	47.42	47.38	
OFFSETS	-8.85	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	

						CH 418.2						
150mm FREEBOARD RL Q100 RL48.53	48.68	1/N ₆	2.0%	3.3%		-3.3%	-3.3%	- f	3.3%	-2.0%	6.0%	
RL 47.0 DESIGN SURFACE	49.06	48.71	48.68	48.59	48.48	48.59	48.48	48.59	48.68	48.71	48.78	
CUT\FILL	0.00	0.26	0.23	0.22		0.15	0.28		0.11	70.0	-0.02	
EXIST SURFACE	49.06	48.98	48.91	48.81	48.80	48.74	48.76	48.77	48.79	48.78	48.76	
OFFSETS	-10.10	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	9.20	

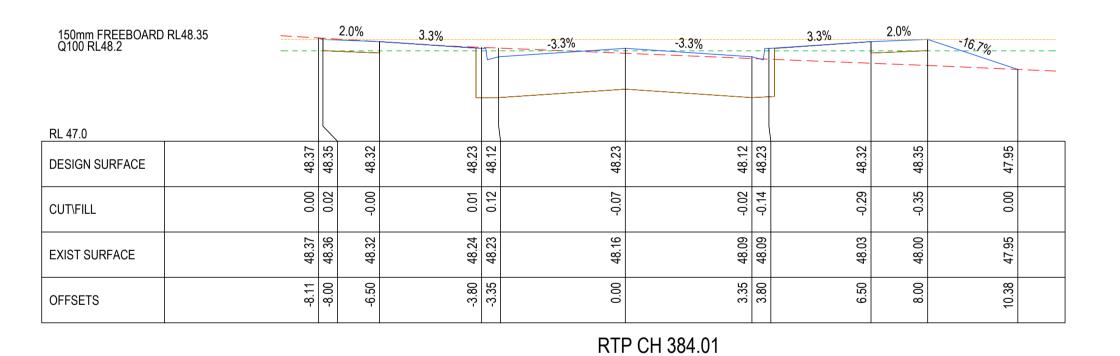
RTP CH 411.62

150mm FREEBOARD RL Q100 RL47.57	-	16.7%	2.0%	3.3%			3.3%	-	3.3%	2.0%	
RL 46.5											
DESIGN SURFACE	48.01	47.79	47.76	47.67	47.56	47.67	47.56	47.67	47.76	47.79	
CUT\FILL	0.00	0.19	0.17	0.18	0.28	90.0	0.04	-0.08	-0.27	-0.36	
EXIST SURFACE	48.01	47.97	47.93	47.85	47.84	47.73	47.60	47.58	47.48	47.43	
OFFSETS	-9.37	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	

RTP CH 331.71

CH 318.18

CH 307.6



15 Q	0mm FREEBOARD RL47.7 100 RL47.55		16.7%	2.0%	3.3%	L	-3.3%	3.3%	-	3.3%	2.0%	<u></u>
	RL 46.5											
	DESIGN SURFACE	48.10	47.84	47.81	47.72	47.61	47.72	47.61	47.72	47.81	47.84	
	CUT\FILL	0.00	0.21	0.19	0.20	0.30	0.08	0.05	-0.08	-0.28	-0.38	
	EXIST SURFACE	48.10	48.05	48.00	47.91	47.90	47.80	47.66	47.64	47.53	47.46	
	OFFSETS	-9.57	-8.00	-6.50	-3.80	-3.35	0.00	3.35	3.80	6.50	8.00	

150mm FREEBOARD RL Q100 RL48.08	48.23		2.0%	3.3%		-3.3%	-3.3%			3.3%	2.0%	-16,7%	
RL 46.5 DESIGN SURFACE	48.21	48.24	48.21	48.12	48.01	48.13	20	48.01	48.12	48.21	48.24	47.80	
CUT\FILL	0.00	-0.04	-0.06	-0.04	90:0	-0.11	, c	0.00	-0.18	-0.33	-0.39	00.00	
EXIST SURFACE	48.21	48.20	48.16	48.08	48.08	48.02	7	47.95	47.94	47.89	47.86	47.80	
OFFSETS	-8.23	-8.00	-6.50	-3.80	-3.35	0.00	C	3.35	3.80	6.50	8.00	10.67	

CH 376.19

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 16 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

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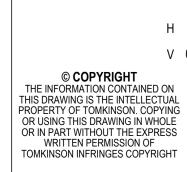
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK AND CROSS SECTIONS UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE REVISION DES DWG CHK AUTH DATE

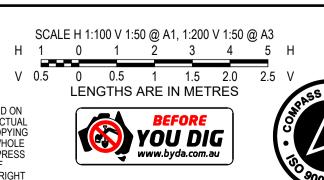


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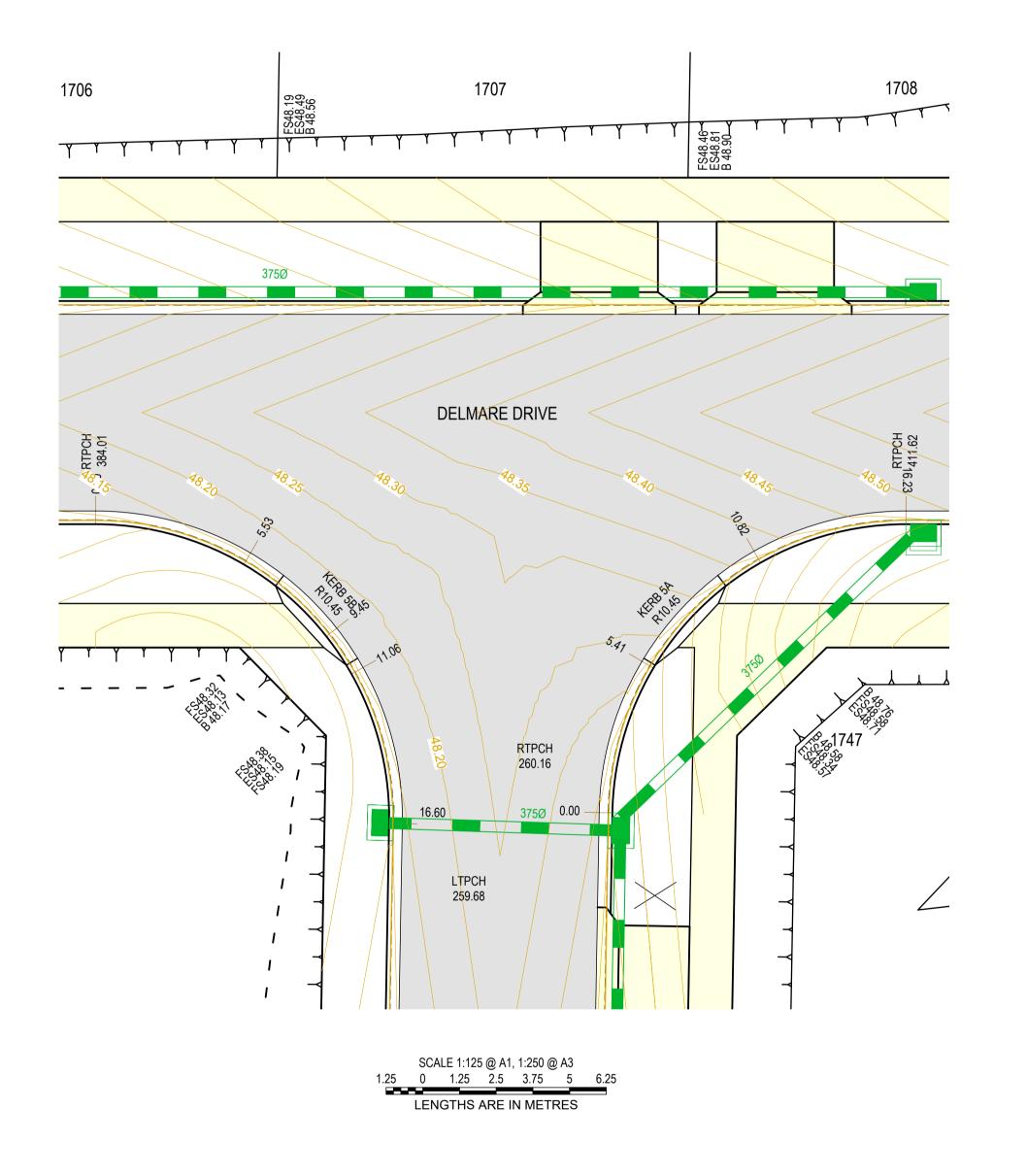


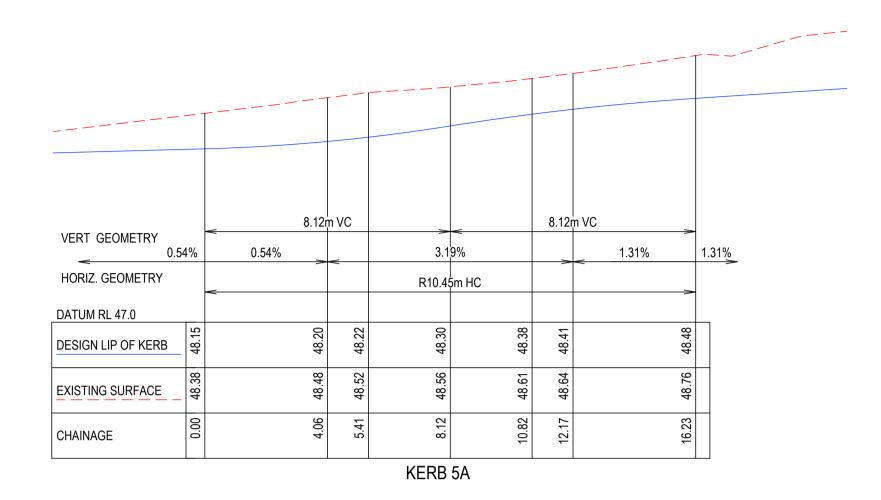




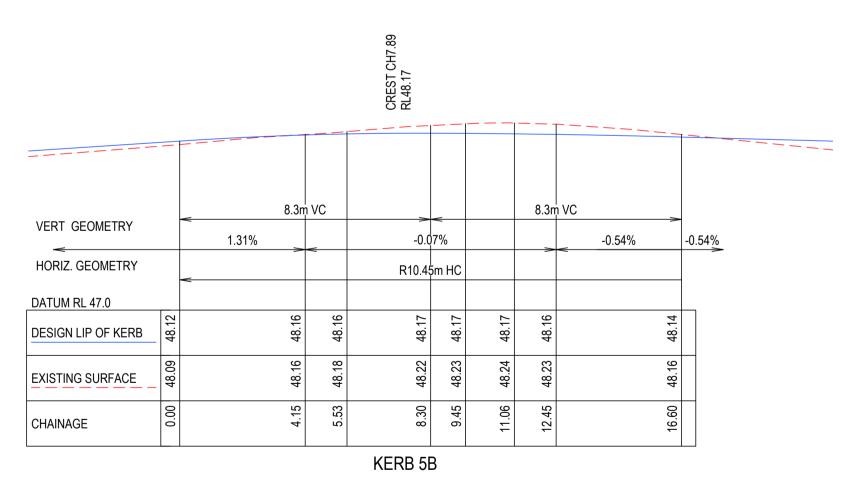
ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE

ROAD CROSS SECTIONS-DELMARE DRIVE AUTHORITY: CITY OF GREATER GEELONG





SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3 H 1.25 0 1.25 2.5 3.75 5.0 6.25 H V 0.25 0 0.25 0.5 0.75 1.0 1.25 V LENGTHS ARE IN METRES



SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3 H 1.25 0 1.25 2.5 3.75 5.0 6.25 H V 0.25 0 0.25 0.5 0.75 1.0 1.25 V LENGTHS ARE IN METRES

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 17 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK, CONTOURS AND LONG SECTIONS UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE

REVISION



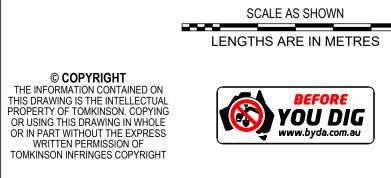
DES DWG CHK AUTH DATE



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ABN 11 103 336 358 WWW.TOMKINSON.COM



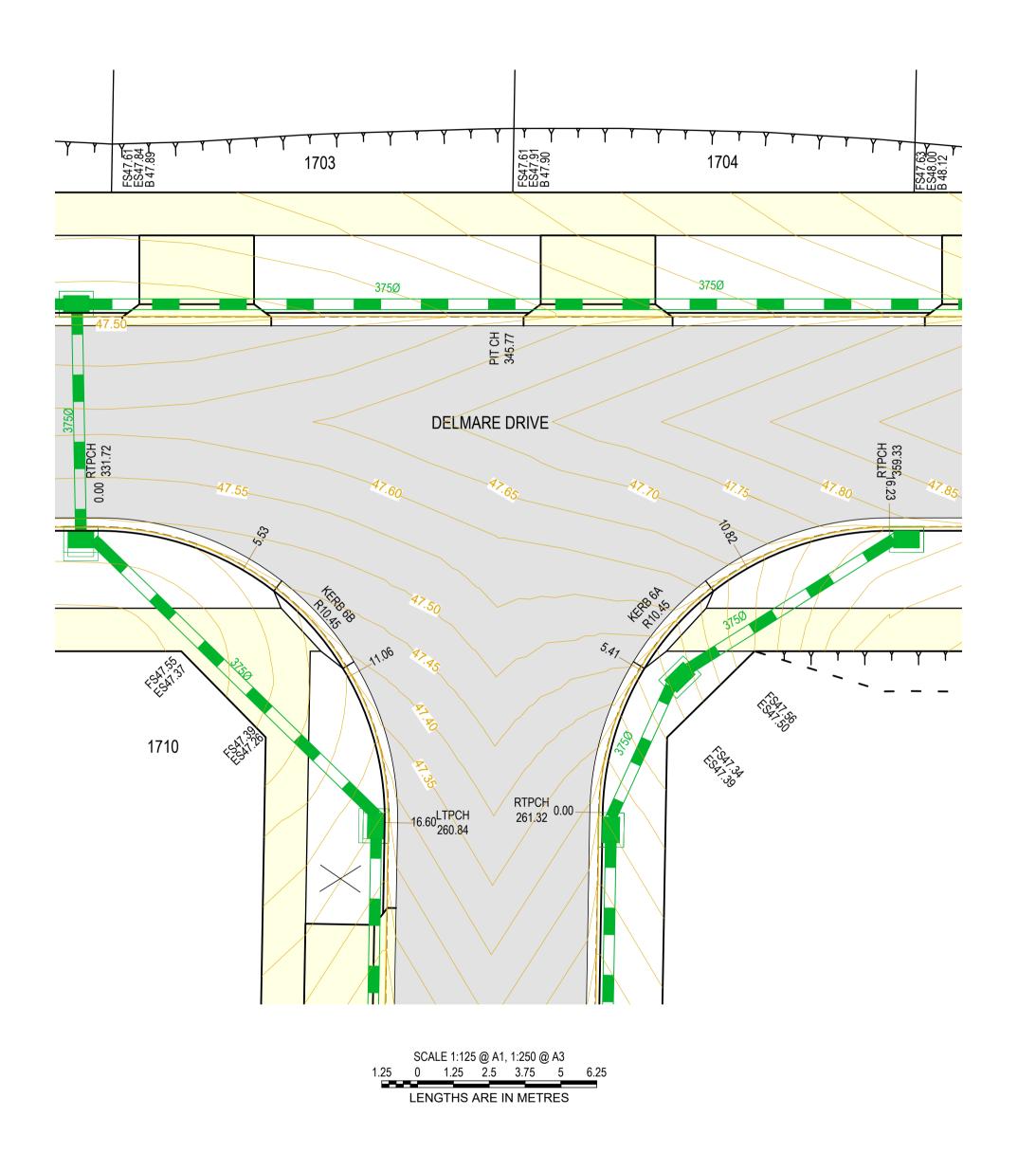


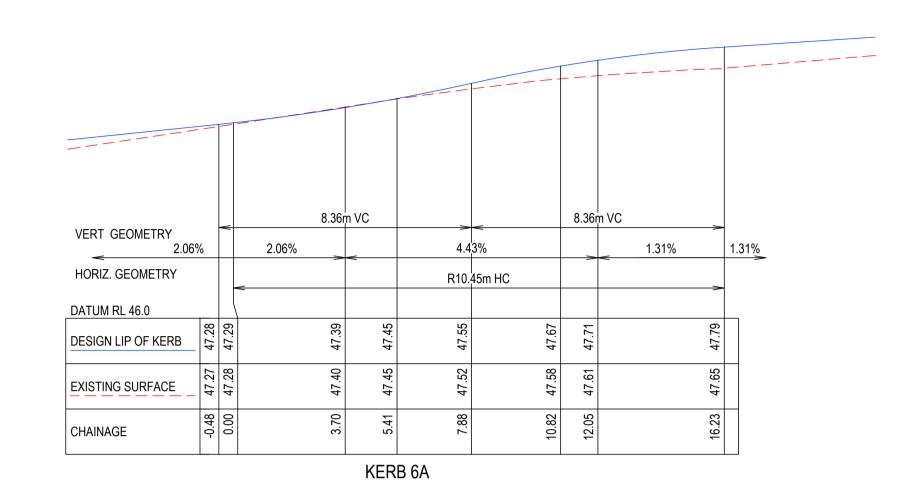


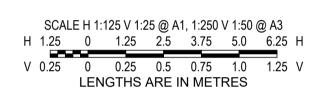


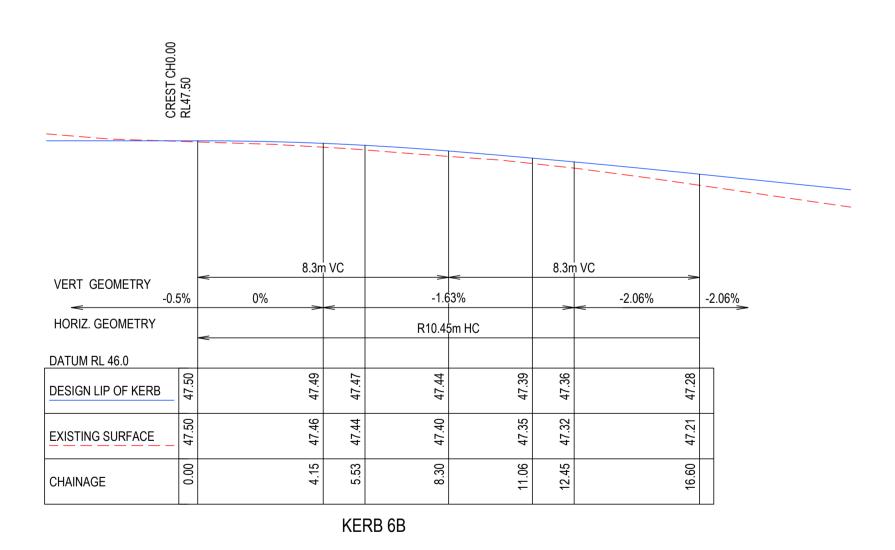
ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE INTERSECTION DETAILS SHEET 1 OF 2
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:









SCALE H 1:125 V 1:25 @ A1, 1:250 V 1:50 @ A3 H 1.25 0 1.25 2.5 3.75 5.0 6.25 H V 0.25 0 0.25 0.5 0.75 1.0 1.25 V LENGTHS ARE IN METRES

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 18 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK, CONTOURS AND LONG SECTIONS UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE REVISION DES DWG CHK AUTH DATE

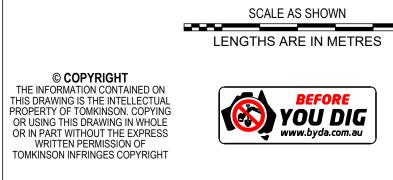




10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM



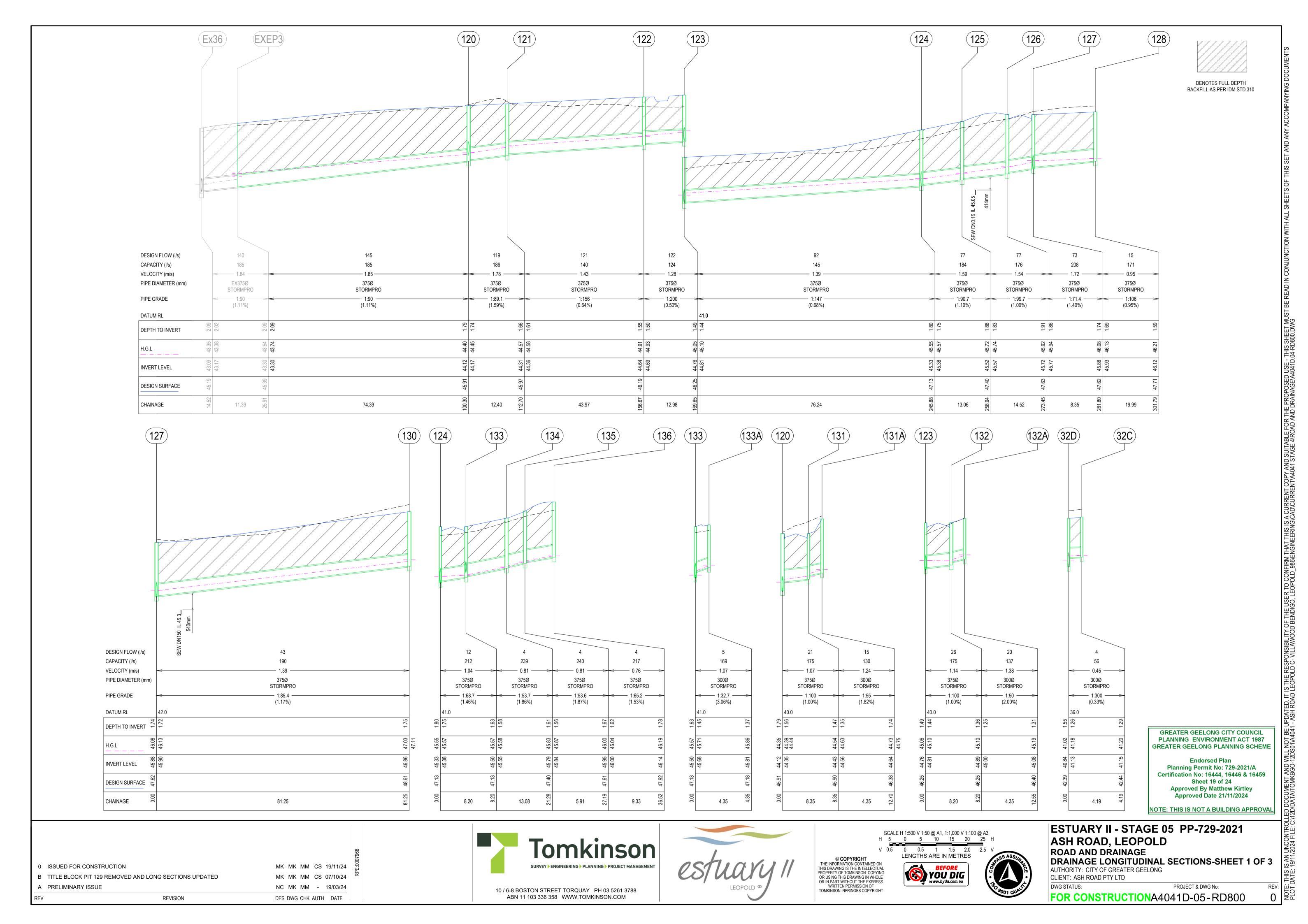


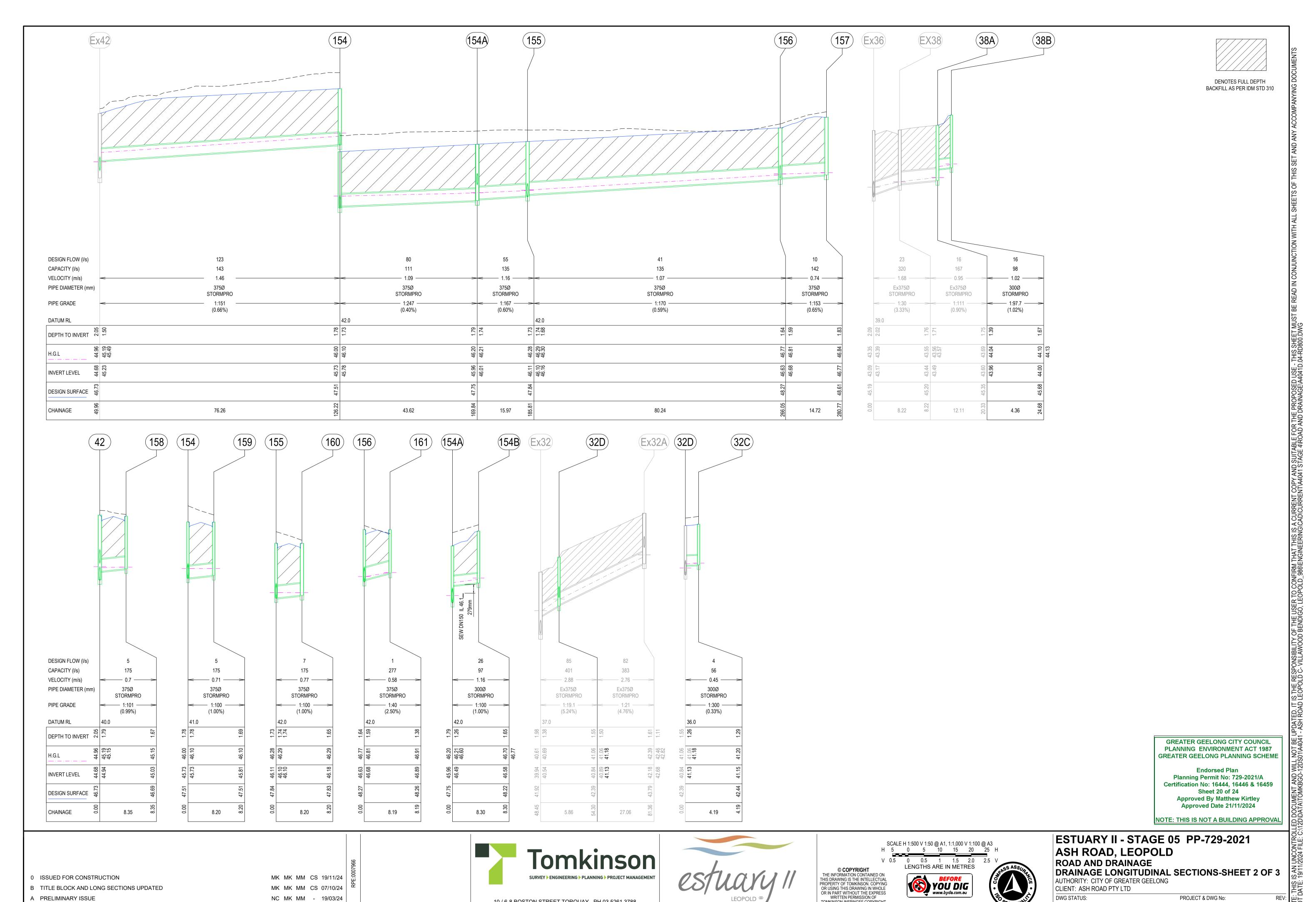




ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE INTERSECTION DETAILS SHEET 2 OF 2
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS: PROJECT & DWG No:





10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

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								PIT	SCHE	DULE		
PIT LOCATION		INTERNAL		INLET		OUTLET		PIT				
PIT NAME		EASTING	NORTHING	WIDTH	LENGTH	DIAMETER	INVERT	DIAMETER	INVERT	SETOUT	DEPTH	REMARKS
							LEVEL		LEVEL	IRL		INLIMATING
ExEP3	EP	277880.657	5768892.866	-	-	375	43.30	375	43.30	45.34	2.05	
Ex32	JP	277825.846	5768975.822	900	900	375	40.54	450	39.94	41.92	1.98	
Ev204	ID	077050 500	F7C0074 074	600	000	375	39.99	275	40.40	44.48	0.20	
Ex32A	JP	277858.522	5768971.871	600	900	300	42.68 42.73	375	42.18	44.48	2.30	
Ex32B	JP	277848.814	5768902.623	600	600	300	42.73	300	43.15	44.30	1.16	REFER TO IDM SD405 & SD420 INSTALL CLASS D BIKE SAFE GRATE
Ex36	SEP	277879.090	5768881.581	600	900	375	43.17	450	43.10	45.19	2.09	CONSTRUCT PIT OVER EXISTING 375DIA DRAIN AND MAKE GOOD TO COUNCIL SATISFACTION
		211010100	0.0000			375	43.17					
Ex38	SEP	277887.293	5768881.058	600	900	375	43.49	375	43.44	45.20	1.76	REFER TO IDM SD405 & SD420
Ex42	SEP	277932.136	5768902.571	900	900	375	45.23	375	44.68	46.73	2.05	REFER TO IDM SD410 & SD420
						375	44.94					
32C	GJP	277832.152	5768979.301	600	600		1	300	41.15	42.44	1.29	REFER TO IDM SD405 & SD 420 WITH CLASS D BIKE SAFE GRATE
32D	JP	277831.661	5768975.138	600	600	375	40.89	375	40.84	42.40	1.55	REFER TO IDM SD405 & SD 426
					•	300	41.14					
38A	JP	277888.968	5768893.048	600	900	300	43.96	375	43.60	45.35	1.75	REFER TO IDM SD405 & SD 420
38B	GJP	277893.282	5768892.444	600	600			300	44.01	45.50	1.49	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
120	SEP	277890.847	5768966.553	900	900	375	44.17	375	44.12	45.91	1.79	REFER TO IDM SD405 & SD430
						375	44.35					
121	JP	277892.315	5768978.865	600	900	375	44.36	375	44.31	45.97	1.66	REFER TO IDM SD405 & SD420
122	JP	277888.937	5769022.702	600	900	375	44.69	375	44.64	46.19	1.55	REFER TO IDM SD405 & SD420 PROVIDE CLASS D TRAFFICABLE COVER
123	SEP	277889.563	5769035.658	600	900	375	44.81	375	44.76	46.25	1.49	REFER TO IDM SD405 & SD 430
						375	44.81			_		
124	SEP	277900.146	5769111.156	900	900	375	45.38	375	45.33	47.13	1.80	REFER TO IDM SD410 & SD 430
						375	45.38					
125	JP	277901.959	5769124.087	900	900	375	45.57	375	45.52	47.40	1.88	REFER TO IDM SD410 & SD 420
126	SEP	277892.934	5769135.103	900	900	375	45.77	375	45.72	47.63	1.91	REFER TO IDM SD405 & SD420 WITH BIKE SAFE GRATE
127	SEP	277893.792	5769143.410	600	900	375	45.93	375	45.88	47.62	1.74	REFER TO IDM SD405 & SD 430
						375	45.90					
128	JP	277873.950	5769145.839	600	900			375	46.12	47.71	1.59	REFER TO IDM SD405 & SD 420
130	JP	277974.438	5769133.536	600	900		1	375	46.86	48.61	1.75	REFER TO IDM SD405 & SD 420
131	SEP	277899.118	5768965.405	600	900	300.000	44.56	375	44.43	45.90	1.47	REFER TO IDM SD405 & SD430
131A	GJP	277903.425	5768964.801	600	600			300	44.64	46.38	1.74	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
132	SEP	277897.684	5769034.519	600	900	300	45.00	375	44.89	46.25	1.36	REFER TO IDM SD405 & SD 430
132A	GJP	277901.992	5769033.915	600	600			300	45.08	46.40	1.31	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
133	SEP	277908.264	5769109.992	600	900	375	45.55	375	45.50	47.13	1.63	REFER TO IDM SD405 & SD 430
	_	T				300	45.68		1			
133A	GJP	277912.566	5769109.350	600	600			300	45.81	47.18	1.37	REFER TO IDM SD405 & SD426 WITH BIKE SAFE GRATE
134	JP	277910.080	5769122.949	600	900	375	45.84	375	45.79	47.40	1.61	REFER TO IDM SD405 & SD 420
135	JP	277913.117	5769127.940	600	900	375	46.00	375	45.95	47.63	1.67	REFER TO IDM SD405 & SD420 INSTALL BIKE SAFE GRATE
136	SEP	277921.543	5769131.750	600	900	075	AE 70	375	46.14	47.92	1.78	REFER TO IDM SD405 & SD430
154	SEP	277942.574	5768978.112	600	900	375	45.79	375	45.74	47.52	1.78	REFER TO IDM SD405 & SD 430
4544	ID	077040 020	F700004 244	600	000	375	45.73	275	45.00	47.75	4.70	
154A	JP	277948.630	5769021.311	600	900	375	46.01	375	45.96	47.75	1.79	PEFED TO IDM CD410 9 CD 420
154D	GJP	277956.089	5769024.728	600	600	300	46.49	300	46.58	48.22	1.65	REFER TO IDM SD410 & SD 430
154B						275	46.46					REFER TO IDM SD405 & SD426 WITH CLASS D BIKE SAFE GRATE
155	SEP	277950.847	5769037.130	600	900	375	46.16	375	46.11	47.84	1.73	REFER TO IDM SD405 & SD 430
156	QED.	277064 007	E760446 E00	600	000	375	46.10	375	46.63	48.27	1.64	REFER TO IDM SD405 & SD 430
156	SEP	277961.987	5769116.593	600	900	375 375	46.68 46.68	3/5	40.03	46.27	1.04	REFER TO IDM SD405 & SD 430
157	SEP	277973.450	5769125.396	900	900	3/5	40.08	375	46.77	48.61	1.83	DEEED TO IDM SDA10 9 SD 420
	SEP SEP				900			375	45.03	48.61	1.83	REFER TO IDM SD410 & SD 430
158 159	SEP SEP	277923.867 277934.454	5768903.730 5768979.250	600	900			375	45.03 45.82	46.70	1.67	REFER TO IDM SD405 & SD 430
160	SEP	277934.454	5768979.250	600	900			375	45.82	47.83	1.70	REFER TO IDM SD405 & SD 430 REFER TO IDM SD405 & SD 430
161	SEP	277942.727	5769038.269	600	900			375	46.89	47.83	1.65	REFER TO IDM SD405 & SD 430 REFER TO IDM SD405 & SD 430
	SEF	211303.030	5/03/1/603	000	900			313	40.09	40.20	1.30	אברבת וט וטועו טטעט אַ טט 450
NOTE:												

ALL PIT LIDS TO BE REINFORCED FIBREGLASS CLASS C AS PER COGG DESIGN NOTE 13 UNLESS OTHERWISE STATED

- EP END PIPE
- JP JUNCTION PIT GP GRATED PIT
- SEP SIDE ENTRY PIT

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987 GREATER GEELONG PLANNING SCHEME

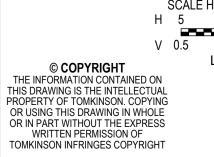
Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 21 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

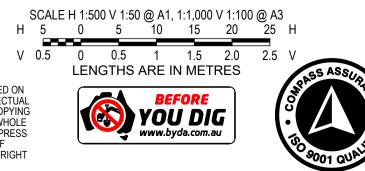
NOTE: THIS IS NOT A BUILDING APPROVAL

MK MK MM CS 19/11/24 MK MK MM CS 07/10/24 NC MK MM - 19/03/24









ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE

DRAINAGE LONG SECTIONS-3 OF 3 & PIT SCHEDULE AUTHORITY: CITY OF GREATER GEELONG CLIENT: ASH ROAD PTY LTD

DWG STATUS: PROJECT & DWG No:

FOR CONSTRUCTIONA4041D-05-RD801

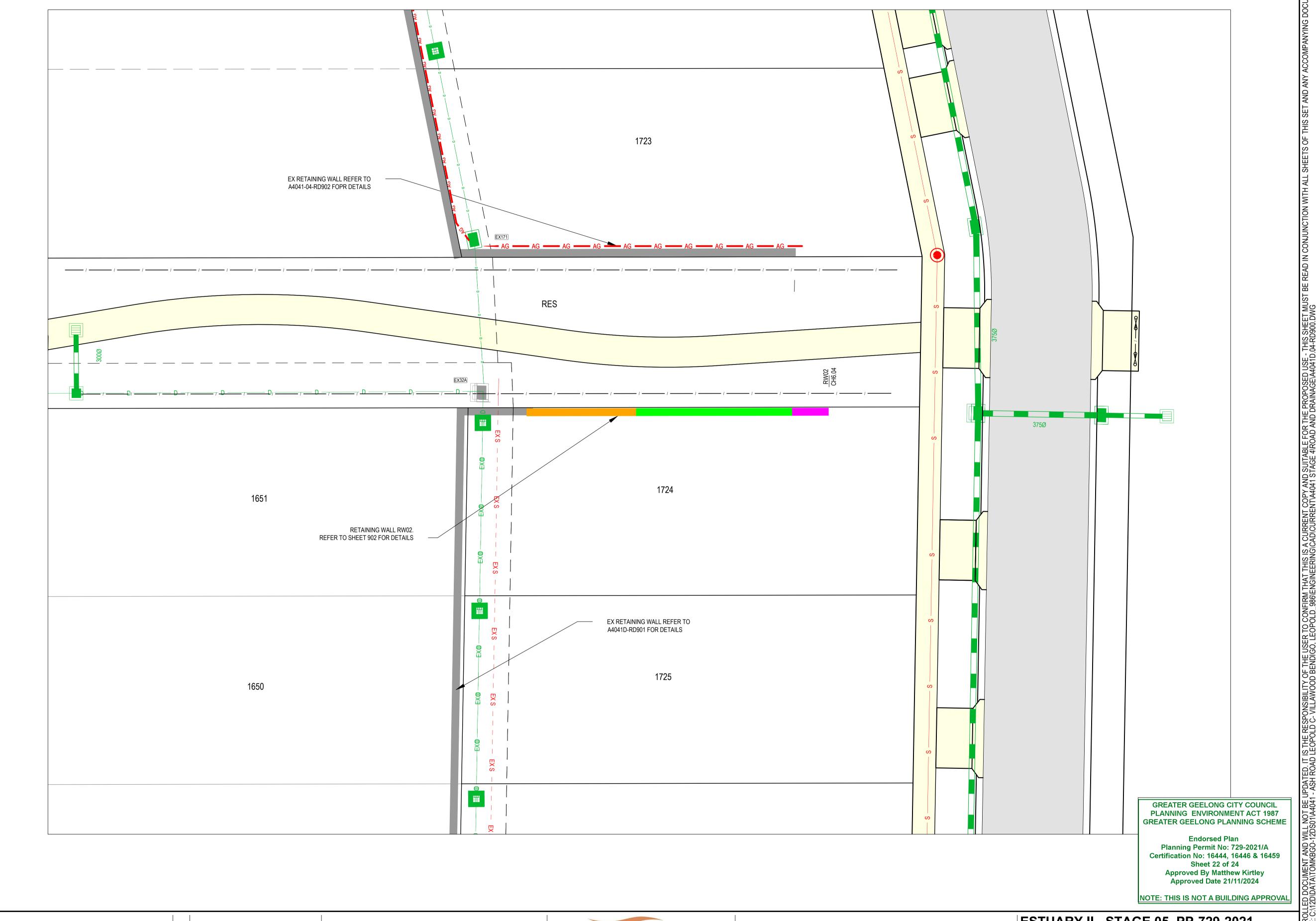
REVISION DES DWG CHK AUTH DATE

0 ISSUED FOR CONSTRUCTION

A PRELIMINARY ISSUE

B TITLE BLOCK AND PIT 154A TYPE UPDATED

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



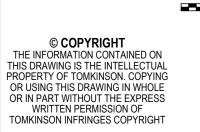
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK UPDATED MK MK MM CS 07/10/24 A PRELIMINARY ISSUE REVISION DES DWG CHK AUTH DATE





ABN 11 103 336 358 WWW.TOMKINSON.COM





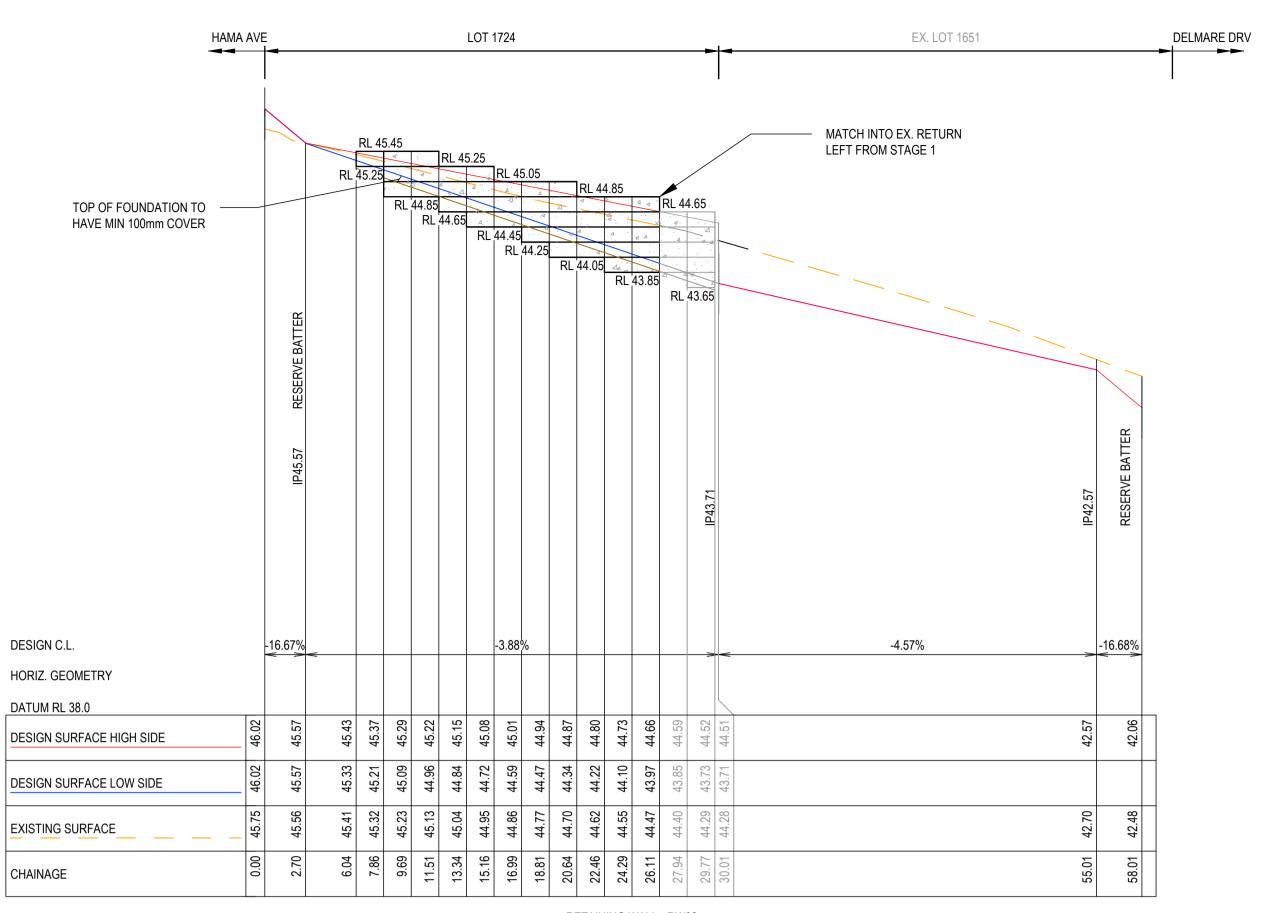




ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE RETAINING WALL LAYOUT PLAN
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

DWG STATUS:

PROJECT & DWG No:

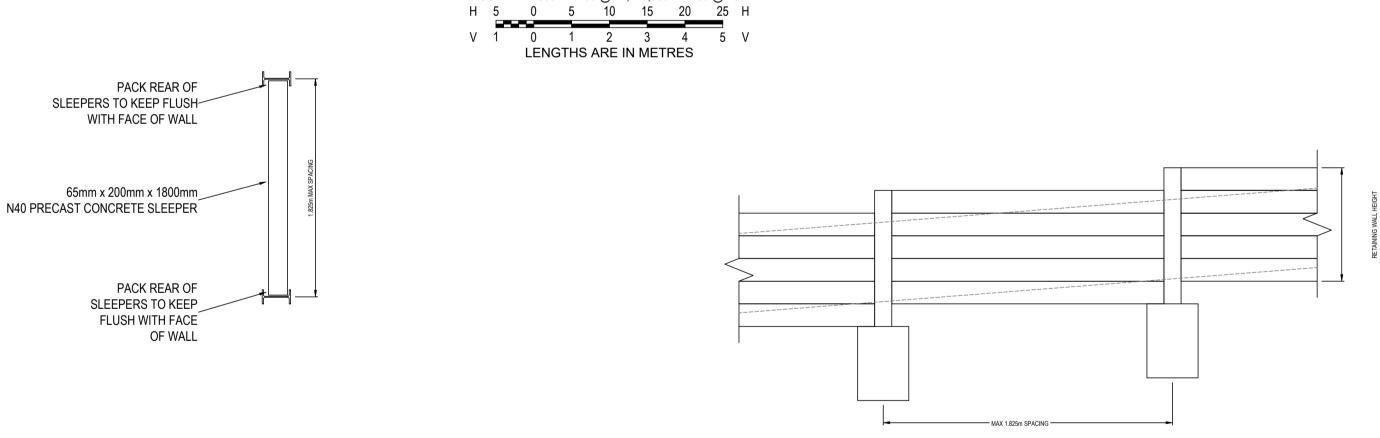


RETAINING WALL - RW02 LONGITUDINAL SECTION

SCALE H 1:500 V 1:100 @ A1, 1:1,000 V 1:200 @ A3

NC MK MM - 19/03/24

DES DWG CHK AUTH DATE



RETAINING WALL POST & EMBEDMENT SCHEDULE

EFFECTIVE HEIGHT 'H'		MBEDMENT 'D' m)	DIA OF HOLE	COL Sli	AG DRAIN 100mmØ	
(m)	RC1	RC2	(m)	RC1	RC2	
0 - 0.4	0.90	0.90	0.45	100 UC 14.8	100 PFC	YES
0.4 - 0.8	1.20	0.90	0.45	100 UC 14.8	100 PFC	YES
0.8 - 1.0	1.50	1.20	0.45	100 UC 14.8	100 PFC	YES

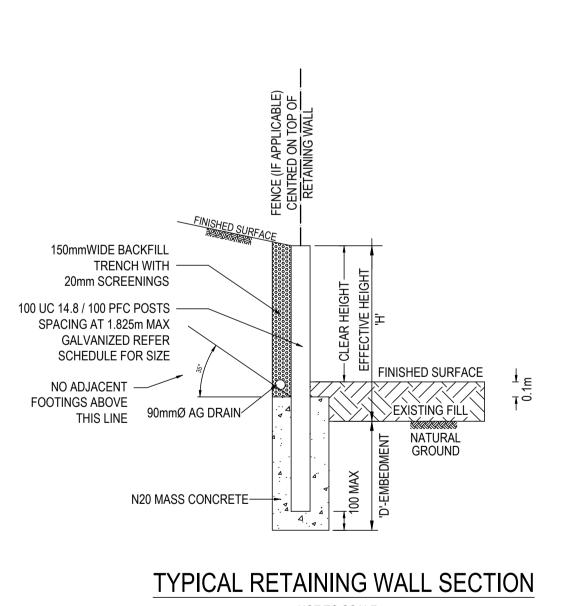
A PRELIMINARY ISSUE

- 1 RC1 = INTERNAL COLUMN; RC2 = EXTERNAL COLUMN
- 2 ALL WALLS TO HAVE 20mm SCREENING BACKFILL IN 150mm WIDE TRENCH
- 3 ALL SCREENING BACKFILL/AG DRAINS TO HAVE POSITIVE DRAINAGE CONNECTION 4 ALL SLEEPERS TO BE 200mm DEEP x 65mm WIDE 1800mm MAX LENGTH PRECAST CONCRETE AS SPECIFIED
- 5 POSTS TO BE AT 1.825m MAX CENTRES AND ANTI-RUST TREATED
- 6 FACE OF RETAINING WALL TO BE 1:20 MIN
- 7 EMBEDMENT DEPTH IS TO BE WHOLLY IN SOLID NATURAL GROUND 8 WALL IS NOT DESIGNED TO SUPPORT ANY ADJACENT STRUCTURES
- 9 WALLS IN EXCESS OF 1.0m TO BE CERTIFIED BY A STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION 10 REFER TO "RETAINING WALL DETAIL PLAN PREPARED BY SGP CONSULTING ENGINEERS REF 22-6681"
- WHEN CONSTRUCTING NEXT TO EXISTING/PROPOSED DRAINAGE

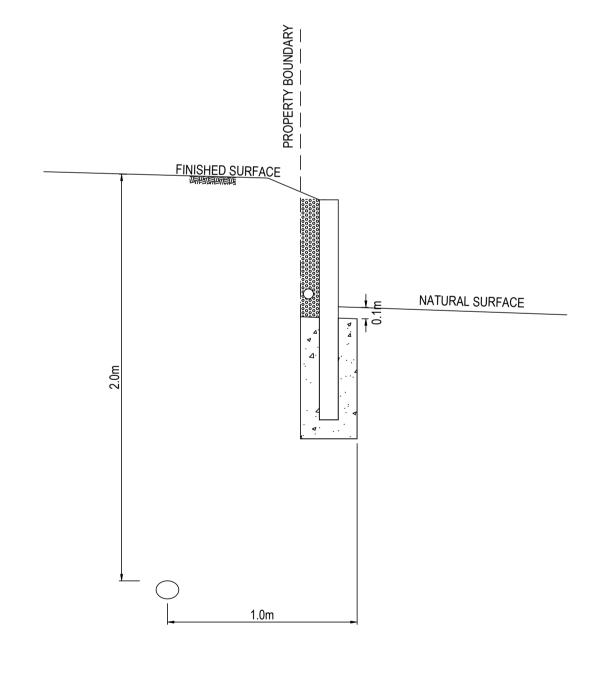
TYPICAL RETAINING WALL LONGITUDINAL DETAIL

NOT TO SCALE

REFER STRUCTURAL DETAILS REFERENCE 22-6681 PREPARED BY SGP CONSULTING ENGINEERS P/L FOR FULL RETAINING WALL SPECS AND DETAILS.







RETAINING WALL TYPICAL SECTION

NOT TO SCALE

GREATER GEELONG CITY COUNCIL PLANNING ENVIRONMENT ACT 1987

GREATER GEELONG PLANNING SCHEME

Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 23 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

Endorsed Plan

NOTE: THIS IS NOT A BUILDING APPROVAL

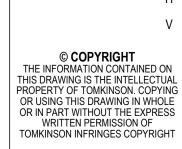
0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK UPDATED MK MK MM CS 07/10/24

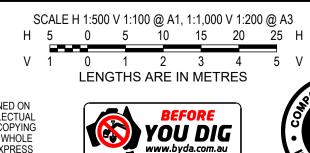
REVISION



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ABN 11 103 336 358 WWW.TOMKINSON.COM







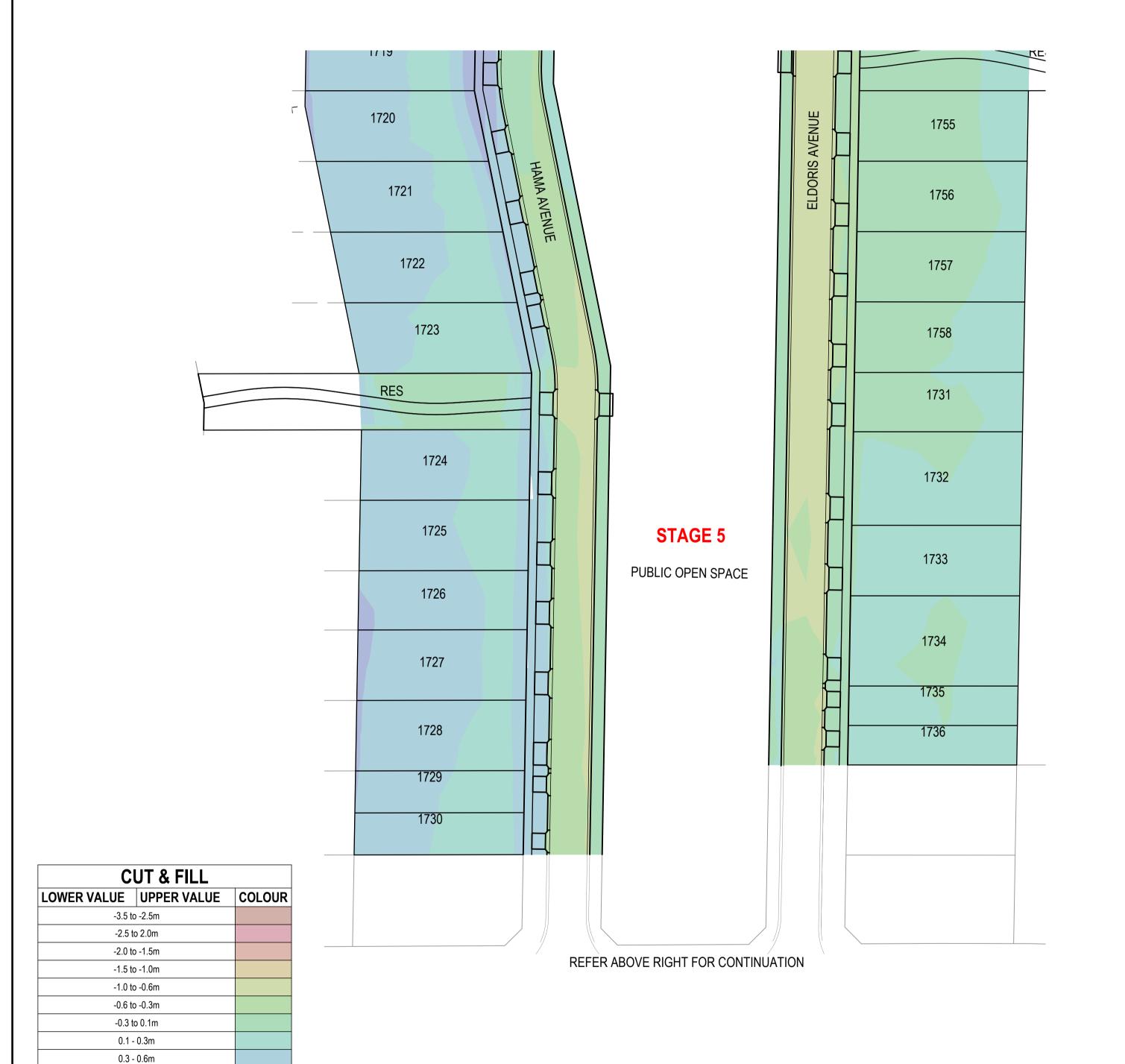
ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD

ROAD AND DRAINAGE RETAINING WALL LONGITUDINAL SECTIONS & DETAILS
AUTHORITY: CITY OF GREATER GEELONG

CLIENT: ASH ROAD PTY LTD DWG STATUS:

FOR CONSTRUCTIONA4041D-05-RD901

PROJECT & DWG No:





Endorsed Plan Planning Permit No: 729-2021/A Certification No: 16444, 16446 & 16459 Sheet 24 of 24 Approved By Matthew Kirtley Approved Date 21/11/2024

NOTE: THIS IS NOT A BUILDING APPROVAL

0 ISSUED FOR CONSTRUCTION MK MK MM CS 19/11/24 B TITLE BLOCK UPDATED NC MK MM CS 07/10/24 A PRELIMINARY ISSUE REVISION DES DWG CHK AUTH DATE

0.6 - 1.0m

1.0 - 1.5m 1.5 - 2.0m

2.0 - 2.5m

AGAINST STRIPPING WITHIN ROAD RESERVE.

DEPTH RANGE CUT AND FILL ARE CALCULATED ALLOWING 200mm

STRIPPING. VOLUMES HAVE BEEN CALCULATED FROM DESIGN SURFACE AGAINST STRIPPING WITHIN LOTS AND BOXING SURFACE

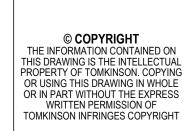




10 / 6-8 BOSTON STREET TORQUAY PH 03 5261 3788

ABN 11 103 336 358 WWW.TOMKINSON.COM









ESTUARY II - STAGE 05 PP-729-2021 ASH ROAD, LEOPOLD ROAD AND DRAINAGE
BULK EARTHWORKS
AUTHORITY: CITY OF GREATER GEELONG
CLIENT: ASH ROAD PTY LTD

PROJECT & DWG No: