

ESTUARY II - STAGE 1

ROAD AND DRAINAGE

ASH ROAD - LEOPOLD



LEGEND

	EXISTING SHRUBS / TREES		PROPOSED SEWER AND MANHOLE
	PROPOSED STREET TREE		PROPOSED SEWER RISING MAIN
	SHRUBS / TREES TO BE REMOVED		PROPOSED PRIVATE SEWER
	SIGN		EXISTING SEWER & MANHOLE
	TELCO PILLAR		PROPOSED FUTURE SEWER
	TELCO PITS		PROPOSED WATER MAIN
	ELECTRICITY LIGHT & POLE		PROPOSED PRIVATE WATER MAIN
	PROPOSED KERB & CHANNEL		PROPOSED RECYCLED WATER MAIN
	EXISTING KERB & CHANNEL		EXISTING WATER MAIN, FIRE PLUG AND VALVE
	PROPOSED DRAIN / PIT / I.S.		PROPOSED FUTURE WATER
	EXISTING DRAIN / PIT		PROPOSED ELECTRICITY MAIN
	PROPOSED HOUSE DRAIN / EASEMENT CONNECTION		PROPOSED PRIVATE ELECTRICITY MAIN
	FUTURE DRAIN / PIT		EXISTING ELECTRICITY MAIN & PIT
	FENCE LINE		PROPOSED FUTURE ELECTRICITY
	INVERT (DESIGN \ EXISTING)		PROPOSED GAS MAIN
	EDGE OF SEAL / EDGE OF BITUMEN (DESIGN \ EXISTING)		PROPOSED PRIVATE GAS MAIN
	TOP OF BANK (DESIGN \ EXISTING)		EXISTING GAS MAIN
	BOTTOM OF BANK		PROPOSED FUTURE GAS
	PROPOSED TITLE BOUNDARY & SITE TITLE BOUNDARY		PROPOSED TELCO MAIN
	PROPOSED FUTURE TITLE BOUNDARY		PROPOSED PRIVATE TELCO MAIN
	PREVIOUS STAGE TITLE BOUNDARY		EXISTING TELCO CABLE
	PROPOSED OR EXISTING EASEMENT		PROPOSED FUTURE TELCO
	HOUSE		PROPOSED CATCH DRAIN
	PROPOSED ELEC / TELSTRA CONDUIT & PIT		PROPOSED AG DRAIN
	PROPOSED GAS & WATER CONDUIT		DESIGN SURFACE
			NATURAL SURFACE

TABLE OF OFFSETS FOR SERVICES

STREET	GAS		WATER		ELECTRICITY		TELCO		SEWER	
	OFFSET	SIDE	OFFSET	SIDE	U/G CABLE	O/H CABLE	OFFSET	SIDE	OFFSET	SIDE
ASH ROAD	EX 2.1m	WST	EX 1.8m	EST	-	-	EX 3.4m	EST	EX 1.4m EX 1.3m	WST
JUNIPER AVENUE NORTH-SOUTH	1.7m	EST	2.2m	EST	2.4m	WST	-	-	1.8m	WST
JUNIPER AVENUE EAST-WEST	1.7m	NTH	2.1m	NTH	2.4m	STH	-	-	1.8m	STH
MARSUPIAL COURT	1.7m	EST	2.1m	NTH	2.4m	WST	-	-	1.8m	WST
SENECIO PLACE	1.7m	NTH	2.1m 3.2m	NTH STH	2.4m	STH	-	-	1.8m	STH

DRAWING LIST

A4041 RD01	LOCALITY PLAN AND GENERAL NOTES
A4041 RD02	EXISTING CONDITIONS PLAN
A4041 RD02A-2B	PROPOSED LOTS (2 SHEETS)
A4041 RD03	DETAIL PLAN
A4041 RD04-06	INTERSECTION DETAIL (3 SHEETS)
A4041 RD07	EARTHWORKS PLAN
A4041 RD08-09A	TYPICAL DETAILS (3 SHEETS)
A4041 RD09B	RETAINING WALL PLAN
A4041 RD10	PAVEMENT DETAILS
A4041 RD11-12	JUNIPER AVENUE LONG SECTION (2 SHEETS)
A4041 RD13	MARSUPIAL COURT LONG SECTION
A4041 RD14	SENECIO PLACE & ASH ROAD LONG SECTIONS
A4041 RD15-18D	JUNIPER AVENUE CROSS SECTIONS (8 SHEETS)
A4041 RD19-19A	SENECIO PLACE CROSS SECTIONS (2 SHEETS)
A4041 RD20-20A	MARSUPIAL COURT CROSS SECTIONS (2 SHEETS)
A4041 RD21-22	ASH ROAD WIDENING CROSS SECTIONS (2 SHEETS)
A4041 RD23-26	DRAINAGE LONG SECTIONS (4 SHEETS)
A4041 RD27	DRAINAGE PIT SCHEDULE
A4041 RD28-29	SIGNAGE & LINEMARKING PLAN (2 SHEETS)

GENERAL NOTES

e. QUALITY ASSURANCE DETAILS (FOR QA CERTIFIED CONTRACTORS)
f. CONSTRUCTION PROGRAM

PRIOR TO THE COMMENCEMENT OF WORKS

1. THE CONTRACTOR MUST NOTIFY THE RELEVANT AUTHORITY 7 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE RELEVANT WORKS.

2. 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.

3. 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.

4. PRIOR TO COMMENCING WORKS THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL SERVICES BY SITE SURVEY (INSPECTION AND CONSULTATION WITH ALL RELEVANT SERVICING AUTHORITIES). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING SERVICES, WHETHER SHOWN OR NOT.

5. 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.

6. NO WORK IS TO COMMENCE BEFORE THE CONTRACTOR HAS ASCERTAINED WHAT UNDERGROUND SERVICES ARE PRESENT.

7. 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.

8. IF THESE SAFETY PROCEDURES CANNOT BE COMPLIED WITH THEN NO WORK IS TO BE UNDERTAKEN WITHOUT PERMISSION FROM THE UTILITY COMPANY.

9. 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:

a. OCCUPATIONAL HEALTH & SAFETY PROCEDURES
b. SITE STAFFING INCLUDING CONTACT DETAILS
c. TRAFFIC MANAGEMENT PLAN
d. ENVIRONMENTAL MANAGEMENT PLAN

CONSTRUCTION SETOUT

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

11. 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.

12. NO TBM CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A SECOND TBM. NO HORIZONTAL SETOUT CONTROL CAN BE USED WITHOUT FIRST PROVING IT TO BE CORRECT TO A THIRD KNOWN POINT. THE CONSULTING SURVEYOR IS TO BE NOTIFIED OF ANY DISCREPANCIES IMMEDIATELY. TITLE PEGS AND T.B.M.'S TO BE RE-ESTABLISHED BY A LICENSED SURVEYOR IF FOUND TO BE MISSING.

13. IF USING GNSS \ GPS TO SETOUT FOR CONSTRUCTION PLEASE NOTE:

a. GNSS HAS REDUCED VERTICAL PRECISION COMPARED TO TRADITIONAL SURVEY METHODS.
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.

SITE MANAGEMENT DURING CONSTRUCTION

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.

15. ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL 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.

16. 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 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 WITH THE MINES ACT, OCCUPATIONAL HEALTH 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.

19. 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.

21. THE CONTRACTOR SHALL TO THE SATISFACTION OF THE SUPERINTENDENT AND COUNCIL'S SUPERVISING 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.

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.

PROTECTION OF VEGETATION

24. NO WORKS ARE TO BE UNDERTAKEN WITHIN THE DRIP ZONE (CANOPY) OF AN EXISTING TREE UNLESS APPROVED BY THE RESPONSIBLE AUTHORITY.

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

EARTHWORKS

26. ALL EARTHWORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS 3798 (2007) - GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

27. ALL FILLING WITHIN AREAS OF PROPOSED ROAD PAVEMENT IS TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD.

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 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.

30. THE SUPERINTENDENT IS TO BE ADVISED OF ANY FILLING THAT ACHIEVES A DEPTH OF 300mm OR GREATER.

31. 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.

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.

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 SM2 (IDM SD100) UNLESS STATED OTHERWISE.

38. ALL ASPHALT ROAD SEALS ARE TO BE 7mm TYPE 'N' UNLESS STATED OTHERWISE.

39. ALL KERB RADI ARE TO BACK OF KERB UNLESS STATED OTHERWISE.

40. ALL FOOTPATHS ARE TO BE CONSTRUCTED AS PER THE IDM SD205 STANDARD

DRAWINGS AND IN ACCORDANCE WITH COUNCIL STANDARDS UNLESS STATED OTHERWISE.

41. TGSIS ARE TO BE INSTALLED ON ALL PEDESTRIAN CROSSINGS AS PER AS 1428.4.

42. ALL NEW INTERSECTIONS ARE TO HAVE STREET SIGNS INSTALLED TO COUNCIL STANDARDS IRRESPECTIVE OF WHETHER THEY ARE DETAILED ON THE ENGINEERING PLANS OR NOT.

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 280KGM² (28MPa), WITH FINISHES AS OUTLINED IN THE DESIGN NOTE

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.

47. ALL SEWER MANHOLES ARE TO BE POSITIONED AND ROTATED SO THAT THEY ARE PLACED CENTRALLY 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 1.0m PAST TITLE BOUNDARY UNLESS DIMENSIONED OTHERWISE.

50. ALL PROPERTY DRAINAGE CONNECTIONS FROM ROAD RESERVES ARE TO ENTER THE PROPERTY 1.0m O/S SIDE BOUNDARY ON THE LOW SIDE WITH 0.5m COVER UNLESS NOTED OTHERWISE.

51. ALL STORMWATER AND CONDUIT TRENCHES UNDER ROAD PAVEMENT, KERB & CHANNEL AND FOOTPATH SHALL BE BACKFILLED IN ACCORDANCE WITH THE IDM UNLESS STATED OTHERWISE

52. REFER TO THE CERTIFIED PLAN OF SUBDIVISION FOR ALL EASEMENT WIDTHS, DO NOT SCALE FROM DRAWING.

53. STORMWATER DRAINS SHALL BE RCP OR HDPE (PER IDM CL16.10) UNLESS OTHERWISE SHOWN.

54. ALL RCP FLUSH JOINTED PIPES BELOW 600mm DIA ARE TO HAVE EXTERIOR MORTARED JOINTS. ALL PIPES 600 DIA AND GREATER ARE TO HAVE INTERIOR

MORTAR JOINTS.

55. ALL PROPOSED DRAINAGE STUBS TO BE BLANKED OFF AT END OF PIPE WITH TIMBER PLANKS TO THE SATISFACTION OF THE SUPERVISING ENGINEER.

56. ALL CONDUIT LOCATIONS ARE TO BE STAMPED IN THE CONCRETE KERBING.

57. ALL CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.

58. ALL GRATES ARE TO BE HOT DIPPED GALVANISED.

59. 100mm DEEP CATCH DRAINS TO BE CONSTRUCTED ALONG ALL EASEMENT DRAINAGE AND DIRECTED TO LEGAL POINT OF DISCHARGE.

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 "CONCONNECT" 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.

63. ELECTRICITY & TELECOMMUNICATIONS CONDUITS SHOWN ON THESE PLANS ARE CONCEPTUAL ONLY. REFER TO 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

EMERGENCY CONTACTS

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

SERVICE	AUTHORITY & CONTACT	TELEPHONE
DRAINAGE	SURF COAST SHIRE	5261 0600
ELECTRICITY	POWERCOR	132 206
GAS	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.

F ADD NOTE TO REF TO SGP PLANS & CoGg DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS RQ MM 21/12/20

E AMENDED PER COUNCIL COMMENTS RQ MM 27/11/20

D AMENDED PER COUNCIL COMMENTS RQ MM 13/11/20

C AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL RQ MM 13/10/20

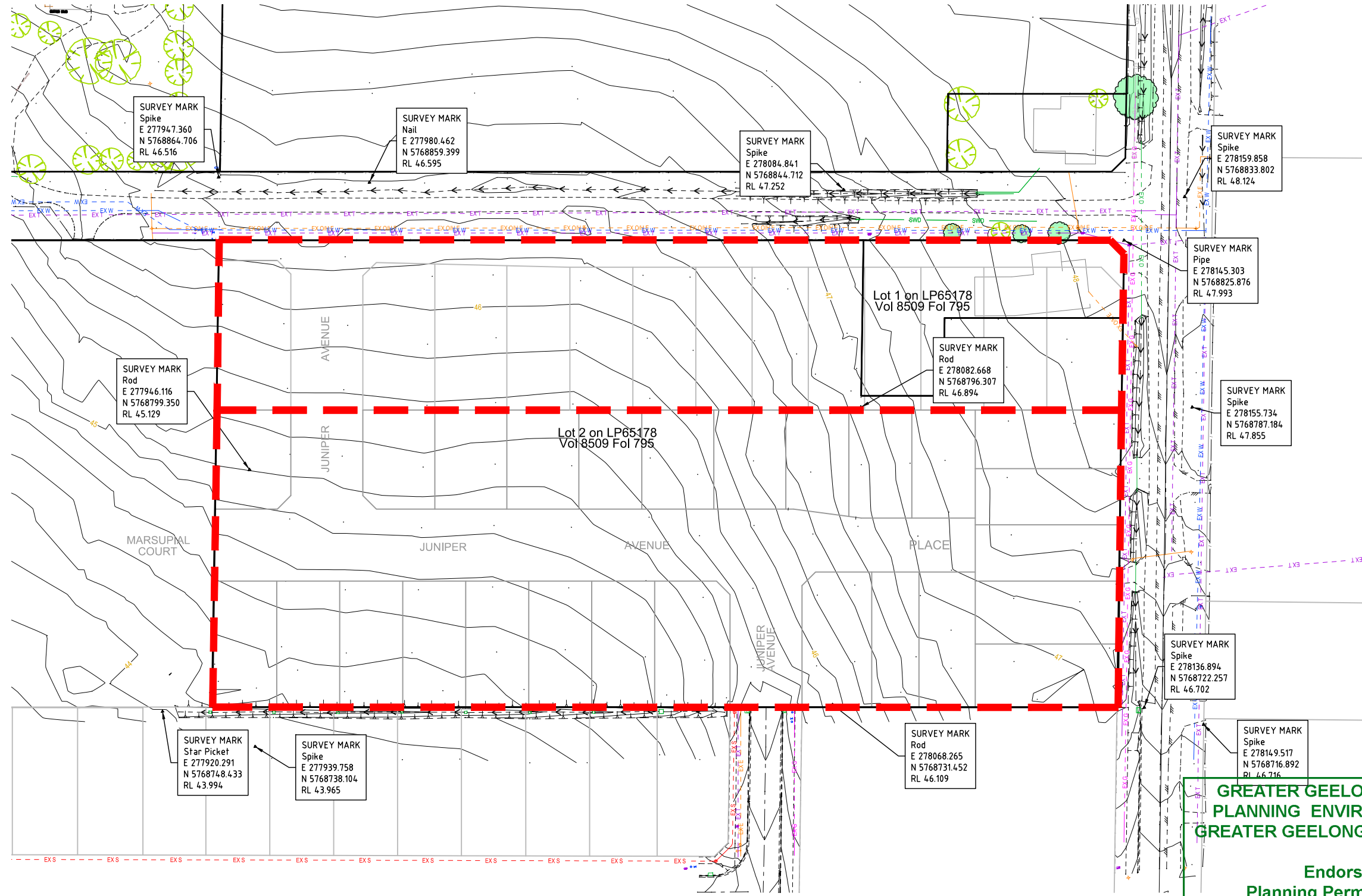
B AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS RQ JH JG 06/08/20

A ISSUED FOR TENDER RQ JH JG 27/07/20

REV	REVISION	DES	DWG	CHK	DATE

			SCALE NA LENGTHS ARE IN METRES - PAPER SIZE A3	
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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD LOCALITY PLAN AND GENERAL NOTES CITY OF GREATER GEELONG PP-602-2019 ASH ROAD LEOPOLD PTY LTD			DWG STATUS: PRELIMINARY	PROJECT & DWG No: A4041 RD01
1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934 ABN 11 103 336 358 WWW.TOMKINSON.COM				REV: F

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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 2 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE



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1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
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SCALE 1:1,000
LENGTHS ARE IN METRES - PAPER SIZE A3

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DIAL BEFORE YOU DIG
www.7100.com.au

**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
EXISTING CONDITIONS PLAN**

CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

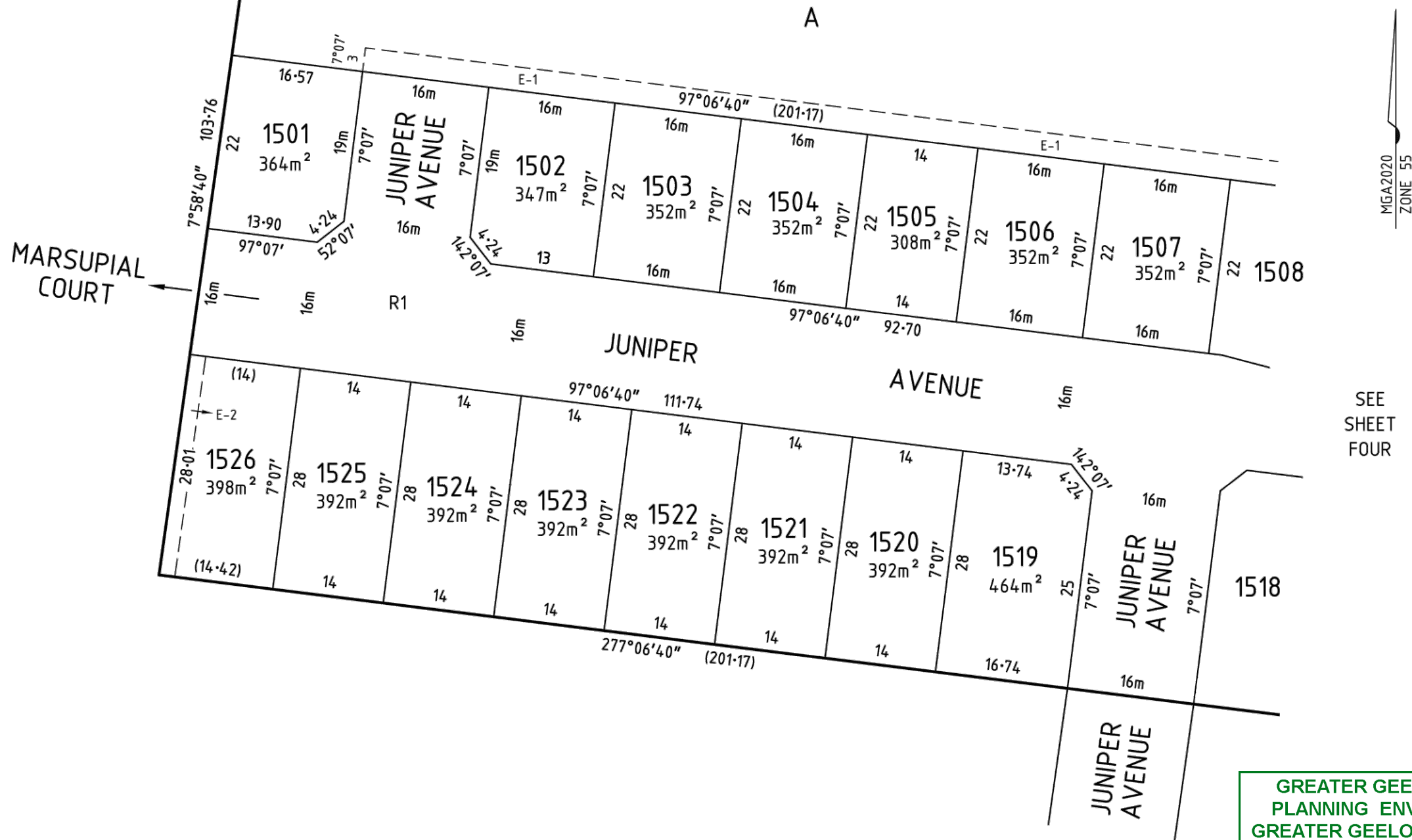
DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD02

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SEE SHEET TWO

PS 839684M

A



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

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SCALE 1:500
LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE A3
SURVEYORS REF No. VER
A4041 A

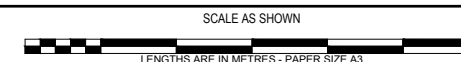
Endorsed Plan
Planning Permit No: 602-2019
Sheet 3 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020

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A	ISSUED FOR TENDER	RQ	JH	27/07/20	



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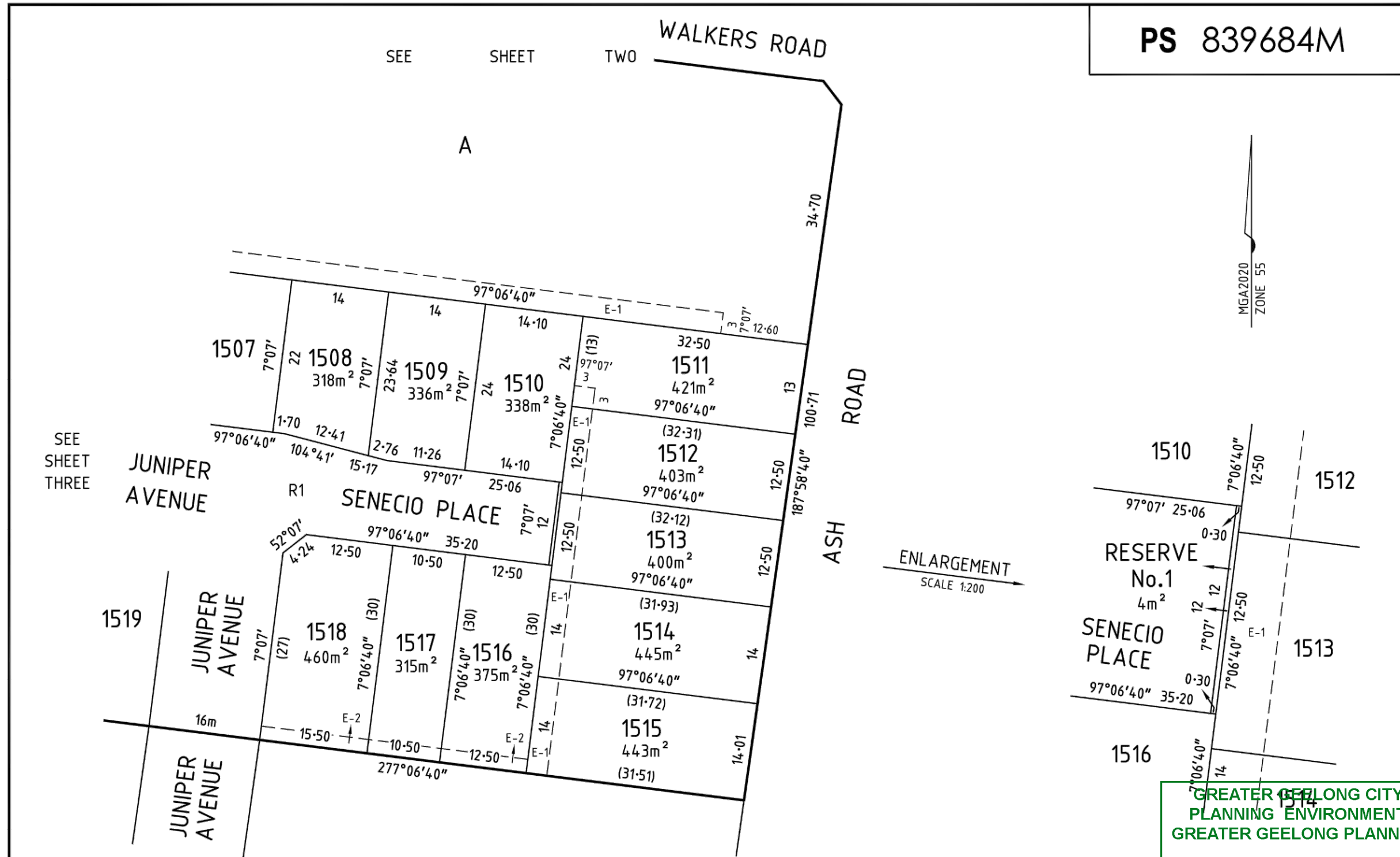
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ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
PROPOSED LOTS (SHEET 1 OF 2)
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD
DWG STATUS: PRELIMINARY
PROJECT & DWG No: A4041 RD02A

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PS 839684M



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ISO 9001:2015
 FS529488

SCALE 1:500

5 0 5 10 15 20
 LENGTHS ARE IN METRES

ORIGINAL SHEET SIZE A3

SURVEYORS REF No. VER
 A4041 A

JASON ERIC PARKER

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

Endorsed Plan
Planning Permit No: 602-2019
Sheet 4 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM		21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM		27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM		13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM		13/10/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20



Tomkinson Group

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM



SCALE AS SHOWN

LENGTHS ARE IN METRES - PAPER SIZE A3

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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
PROPOSED LOTS (SHEET 2 OF 2)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY**

PROJECT & DWG No: A4041 RD02B

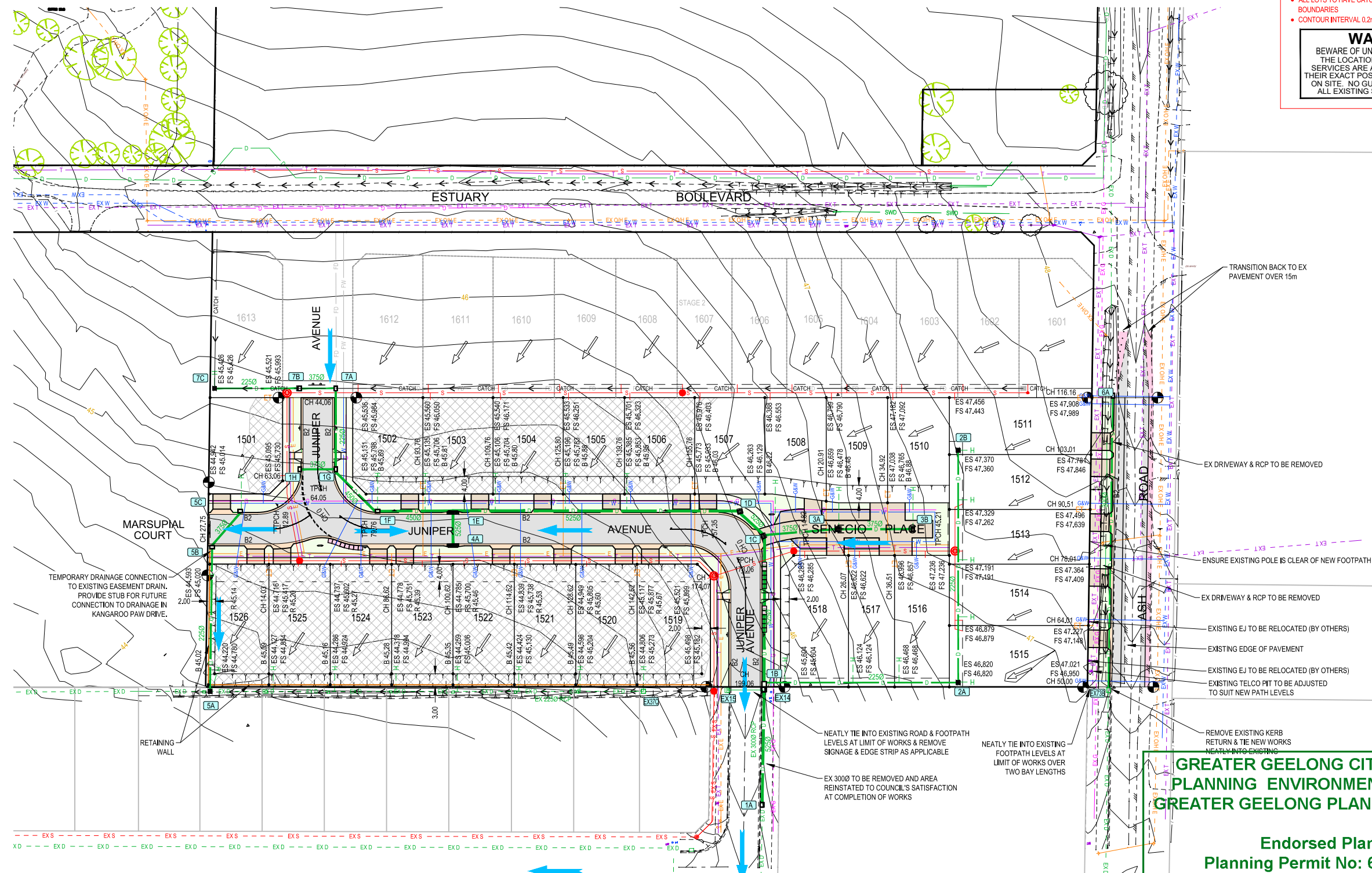
REV: F

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 PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMKINSON\666\ENGINEERING\CIVIL\CURRENT DESIGN\4041 - ASH ROAD LEOPOLD - 1285014404 - 1 - ASH ROAD LEOPOLD C - VILLAWOOD BENDIGO LEOPOLD_666\ENGINEERING\CIVIL\CURRENT DESIGN\4041 - R.D. CTN PLANS REV.A.DWG

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

- ALL KERB IS TO BE 450mm B2
- ALL KERB RETURNS ARE 10.0m RADIUS TO KERB INVERT
- FOOTPATHS ARE 1.5m WIDE CONCRETE (UNLESS OTHERWISE SHOWN) AT A 0.05m O/S OFF THE BOUNDARY LINE.
- ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES UNLESS OTHERWISE SHOWN
- LEVEL 1 SUPERVISION PROPOSED FOR LOT EARTHWORKS ABOVE 0.3m (REFER LEGEND)
- ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
- CONTOUR INTERVAL 0.2m

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.

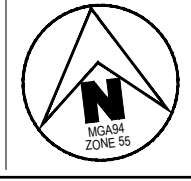


**GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME**

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 5 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE



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SCALE 1:1,000
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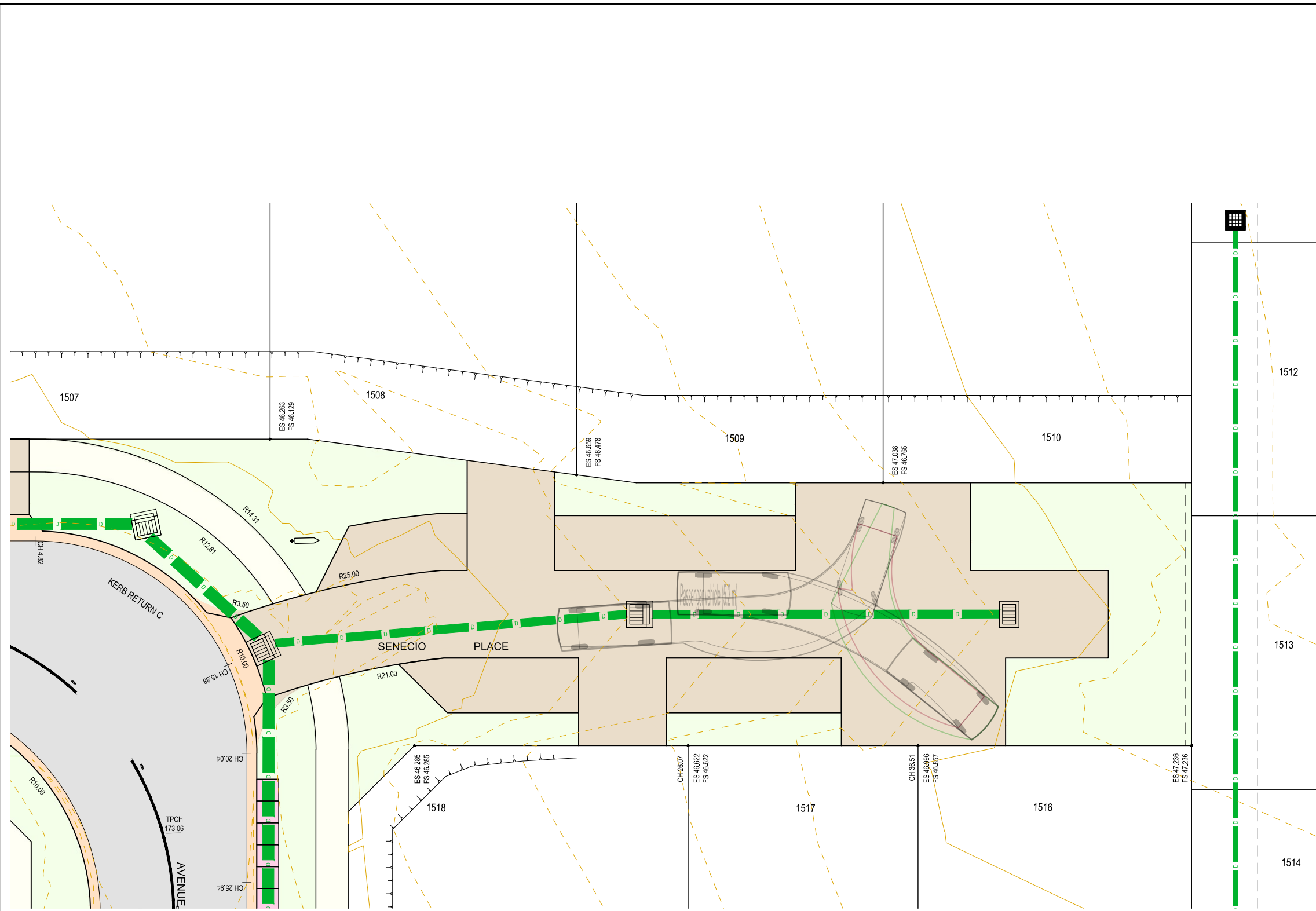
**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 DETAIL PLAN**

CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4014 RD03

REV: F

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 PLOT DATE: 21/12/2020 FILE: C:\I2\DATA\TOMM66C-1285014404-1-ASH ROAD LEOPOLD C-VILLWOOD BENDIGO LEOPOLD_986ENGINEERING\CIVIL\CURRENT DESIGN\4041 RD CTN PLANS REV.A.DWG



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

Endorsed Plan
Planning Permit No: 602-2019
Sheet 6 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	





 1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
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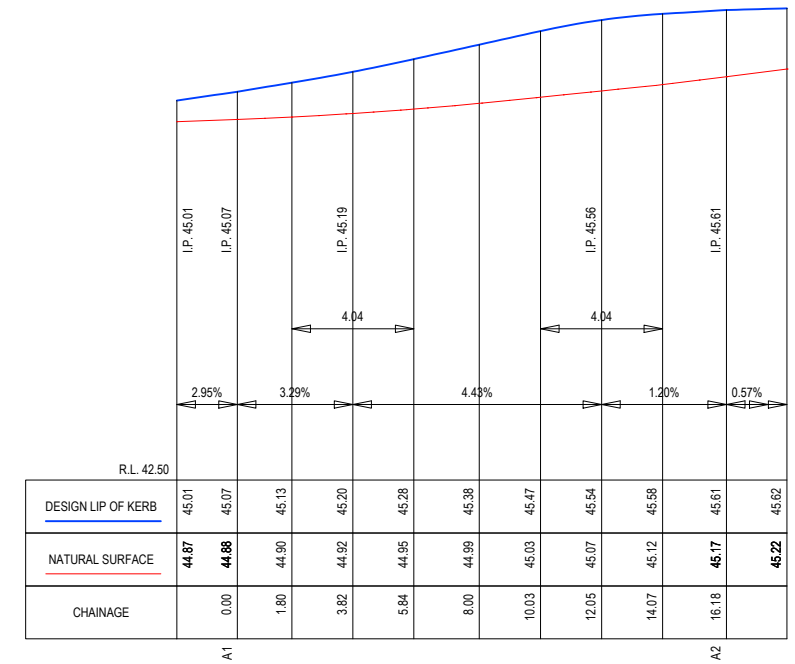
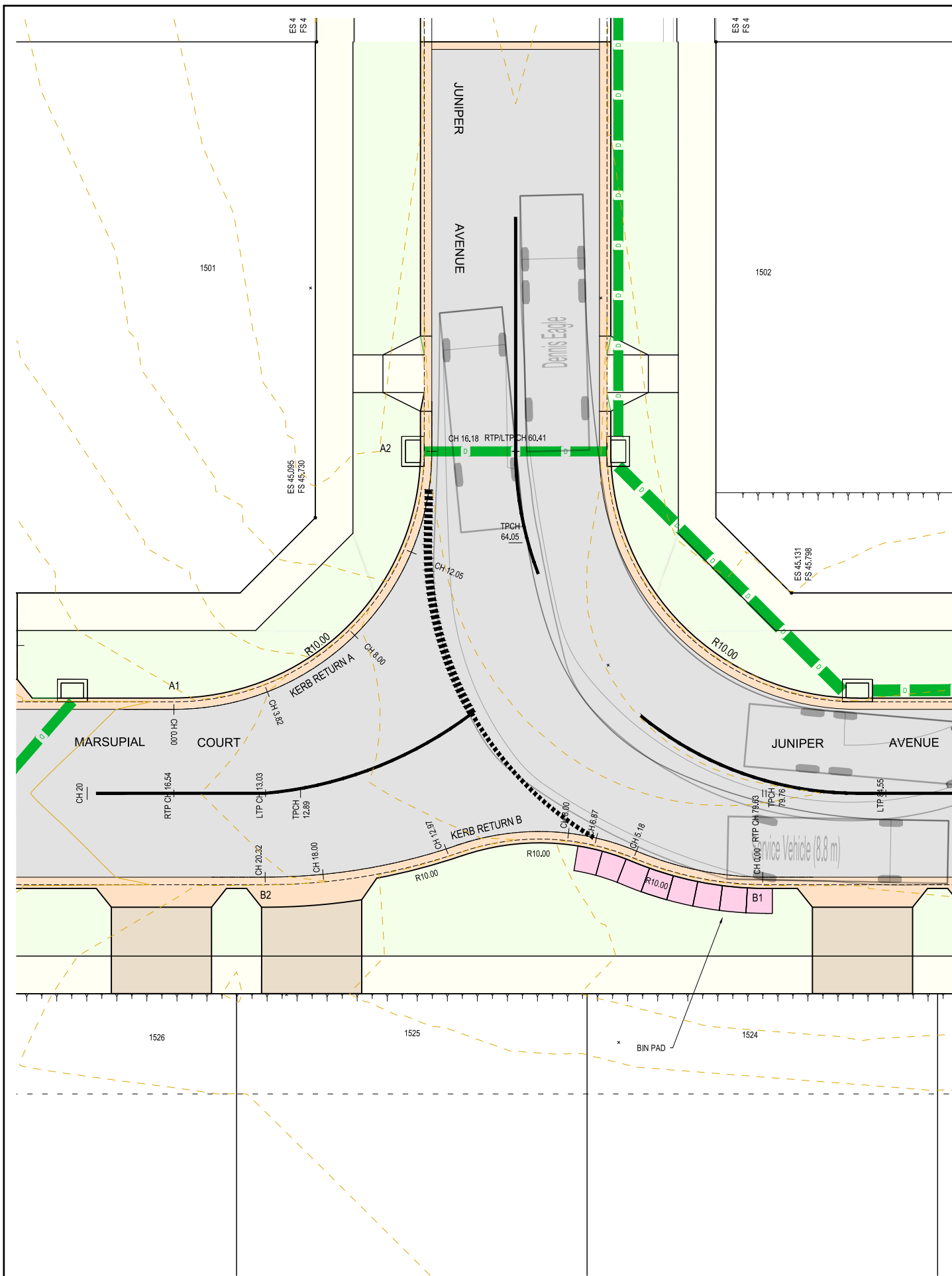


ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
INTERSECTION DETAIL (SHEET 1 OF 3)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

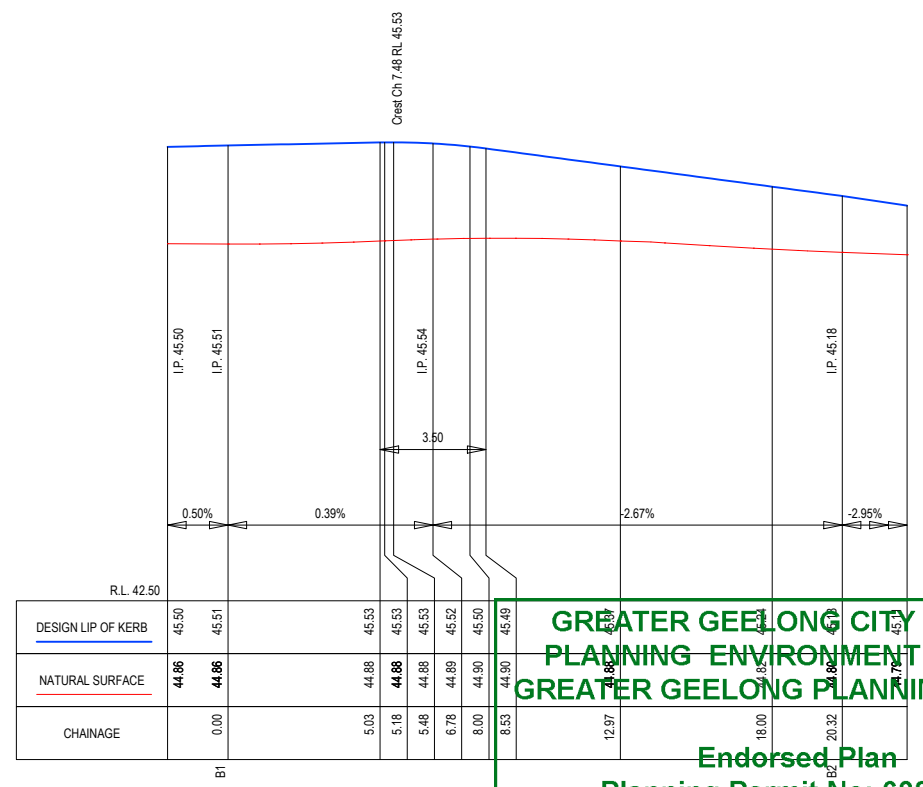
DWG STATUS: **PRELIMINARY**
 PROJECT & DWG No: A4041 RD04

REV: F

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 PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMKINSON\LEOPOLD_986\ENGINEERING\CIVIL\CURRENT DESIGN\4041 - ASH ROAD LEOPOLD C - VILLAWOOD BENDIGO\LEOPOLD_986\ENGINEERING\CIVIL\CURRENT DESIGN\4041 - RD CTN PLANS REV.A.DWG



KERB RETURN A - LONG SECTION
SCALE H 1:200 V 1:50



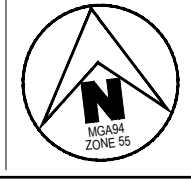
KERB RETURN B - LONG SECTION
SCALE H 1:200 V 1:50

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

Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 7 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	



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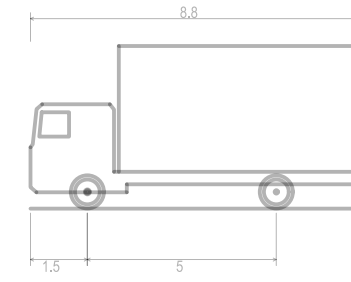
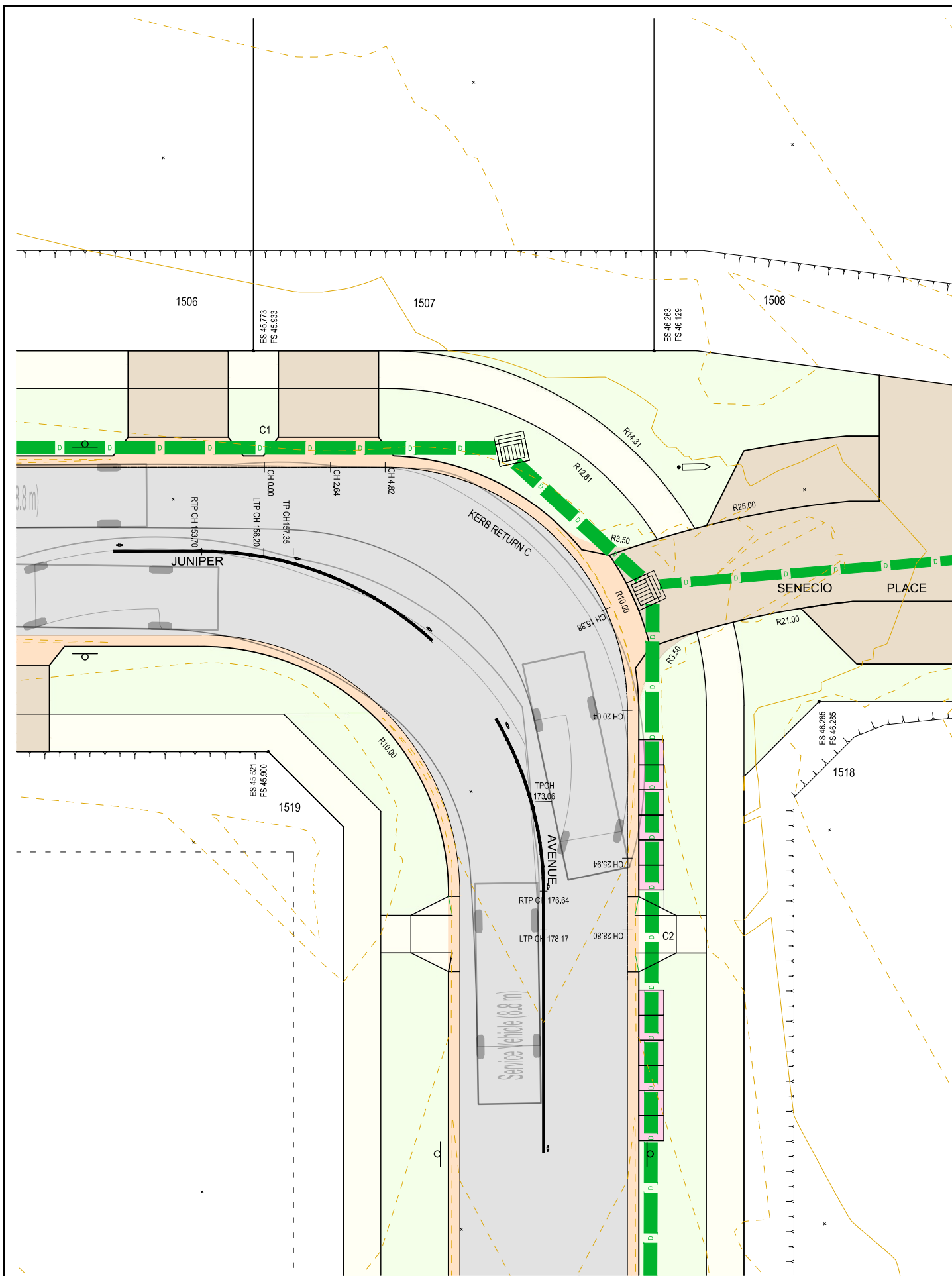
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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
 INTERSECTION DETAIL (SHEET 2 OF 3)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

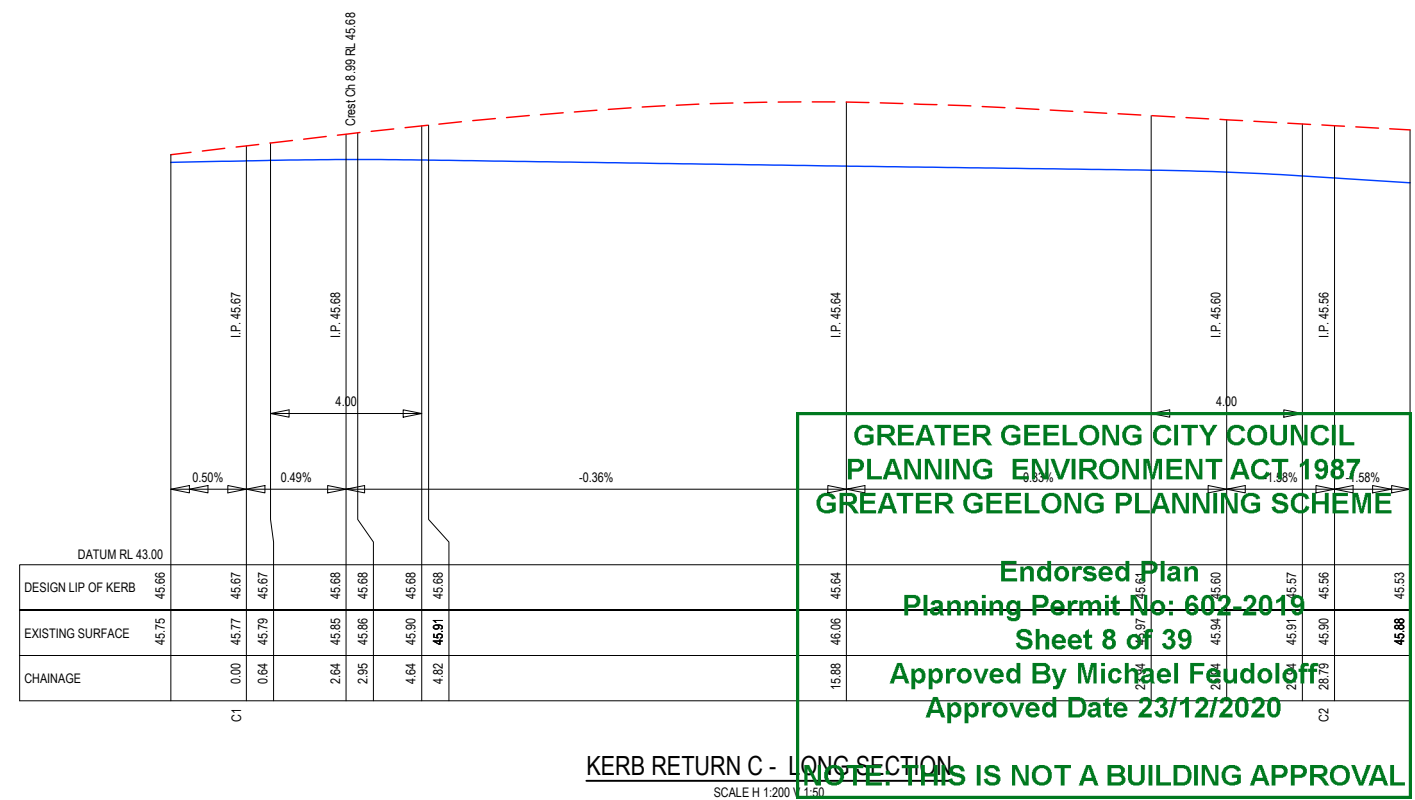
DWG STATUS: **PRELIMINARY**
 PROJECT & DWG No: A4014 RD05

REV: F

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Service Vehicle (8.8 m)	8.800m
Overall Length	8.800m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.427m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	12.500m



GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME
 Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 8 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	



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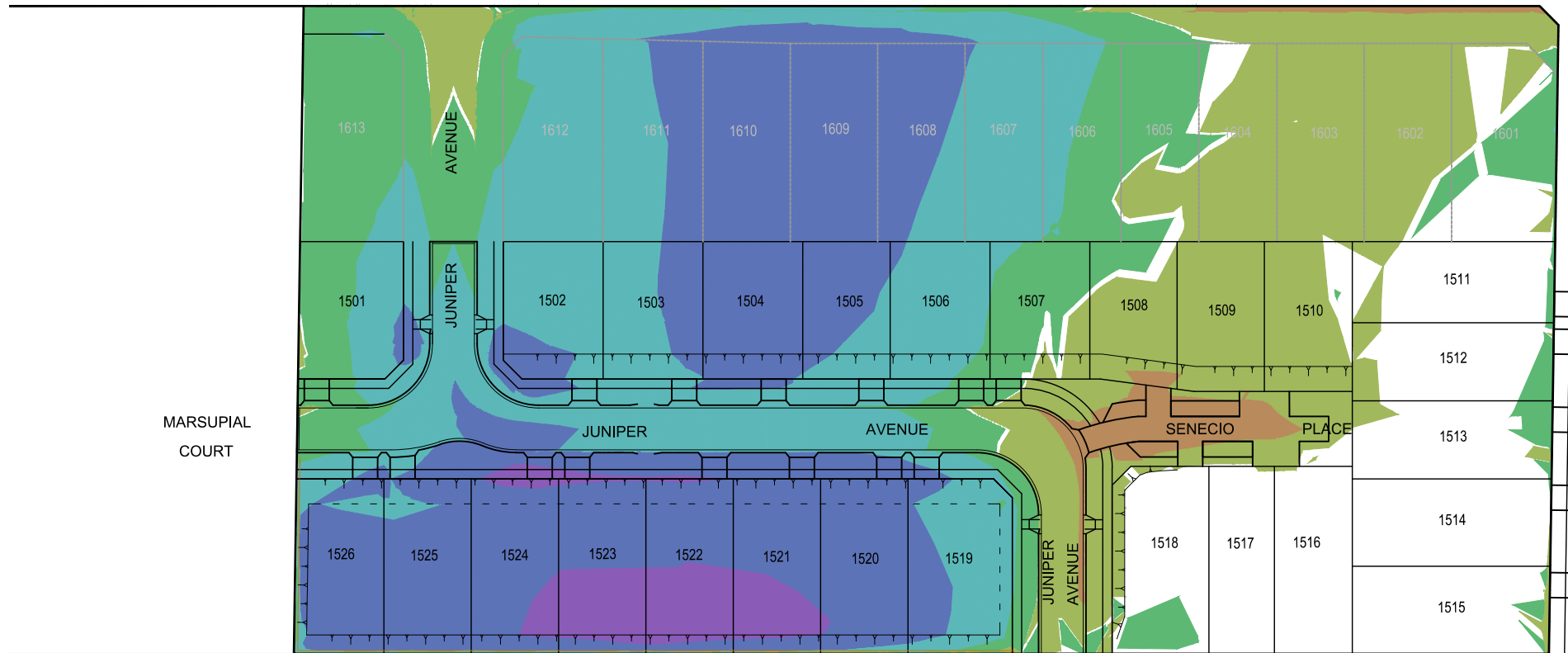
SCALE 1:200
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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
INTERSECTION DETAIL (SHEET 3 OF 3)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: **PRELIMINARY**
 PROJECT & DWG No: A4041 RD06
 REV: F

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 PLOT DATE: 21/12/2020 FILE: C:\IZID\DATA\TOMKING\12850114041 - ASH ROAD LEOPOLD C - VILLAWOOD BENDIGO LEOPOLD_986ENGINEERING\CIVIL\CURRENT DESIGN\A4041 - RD CTN PLANS REV.A.DWG



ESTUARY BOULEVARD



MARSUPIAL COURT

ASH ROAD

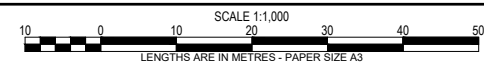
Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.618	-0.600	Red
2	-0.600	-0.300	Orange
3	0.000	0.100	Yellow
4	0.300	0.500	Light Green
5	0.300	0.600	Green
6	0.600	0.900	Dark Green
7	0.900	1.200	Blue

GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME
 Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 9 of 39
 Approved By Michael Feudoloff
 Approved Date 23/12/2020
 NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20



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 ABN 11 103 336 358 WWW.TOMKINSON.COM

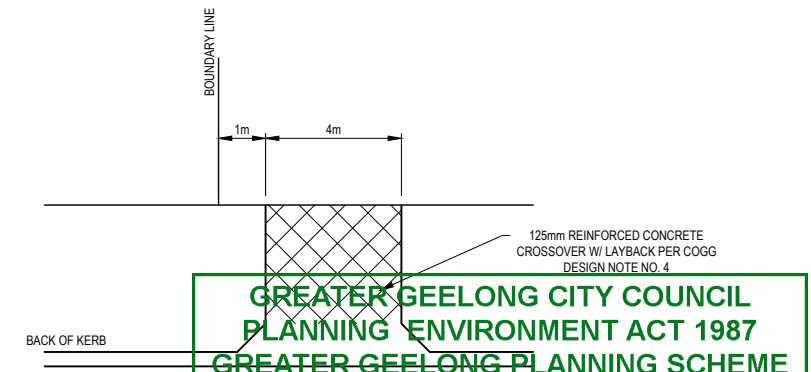
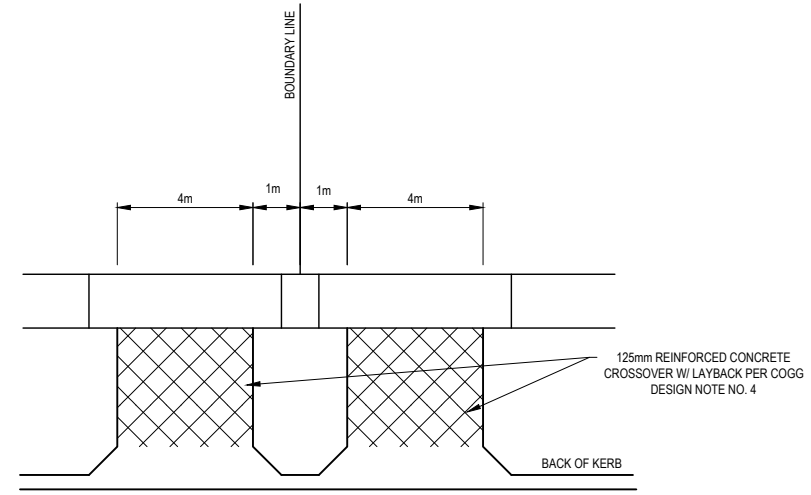
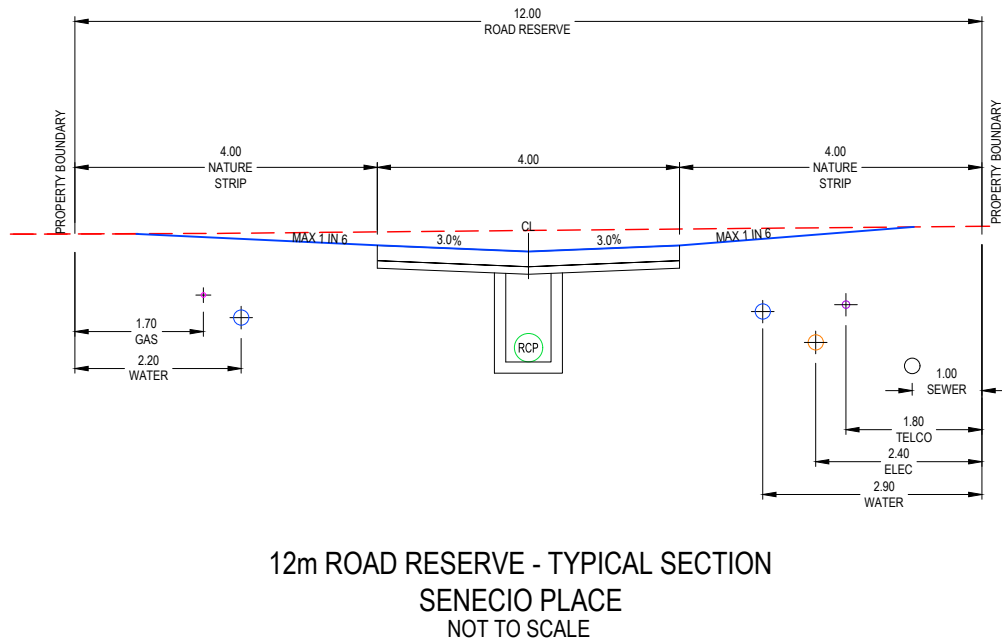
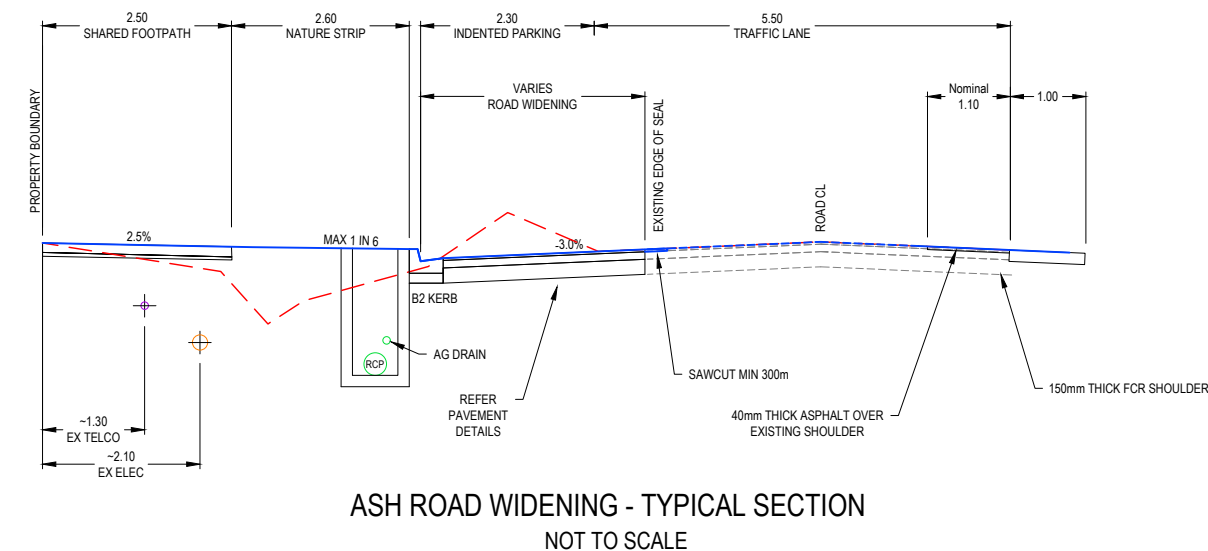
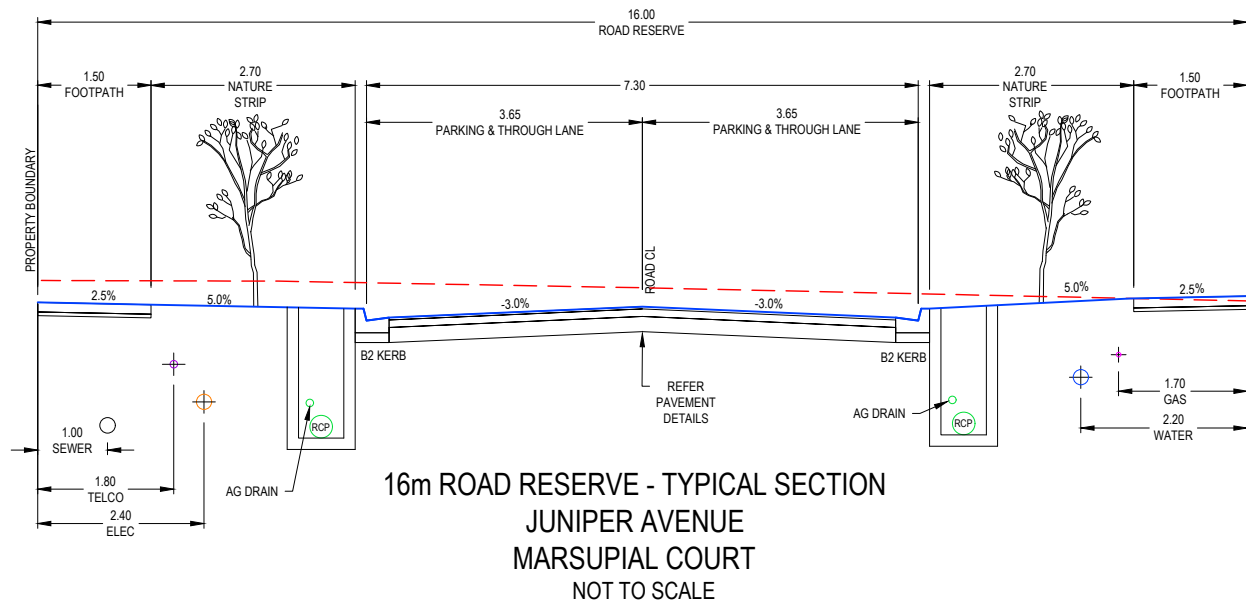


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ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 EARTHWORKS PLAN
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: PRELIMINARY
 PROJECT & DWG No: A4041 RD07
 REV: F

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

**Final Plan
Planning Permit No: 602-2019
Sheet 10 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020**

NOTE: ALL CONCRETE WORKS TO ABIDE BY CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED NOVEMBER 2020
NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM		21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM		27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM		13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM		13/10/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20

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estuary
LEOPOLD

SCALE AS SHOWN
LENGTHS ARE IN METRES - PAPER SIZE A3

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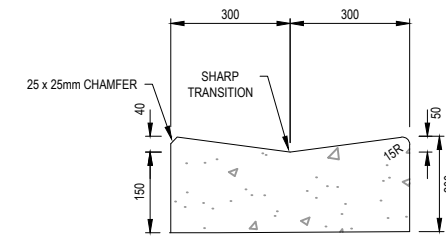
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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
TYPICAL DETAILS (SHEET 1 OF 3)**

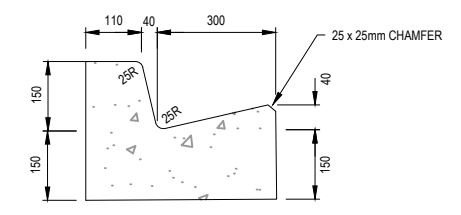
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD08

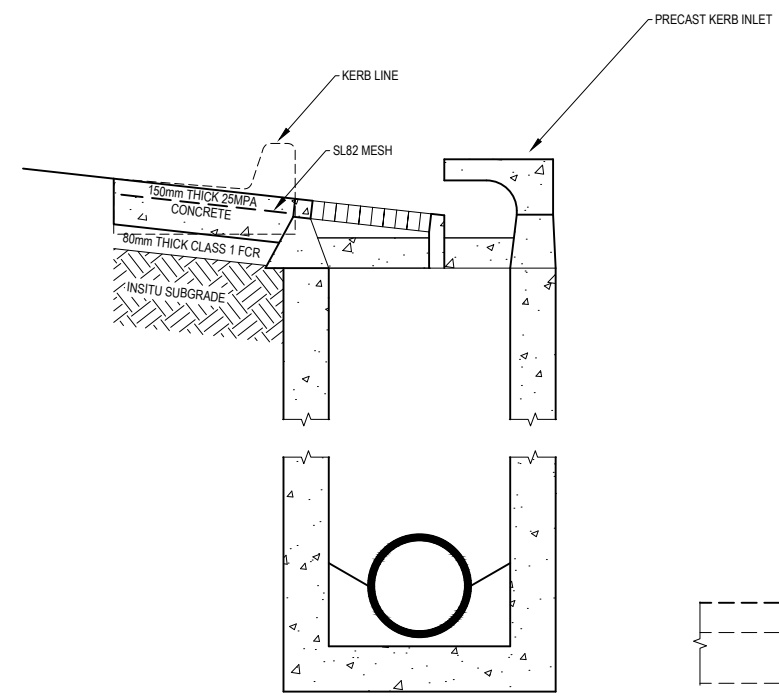
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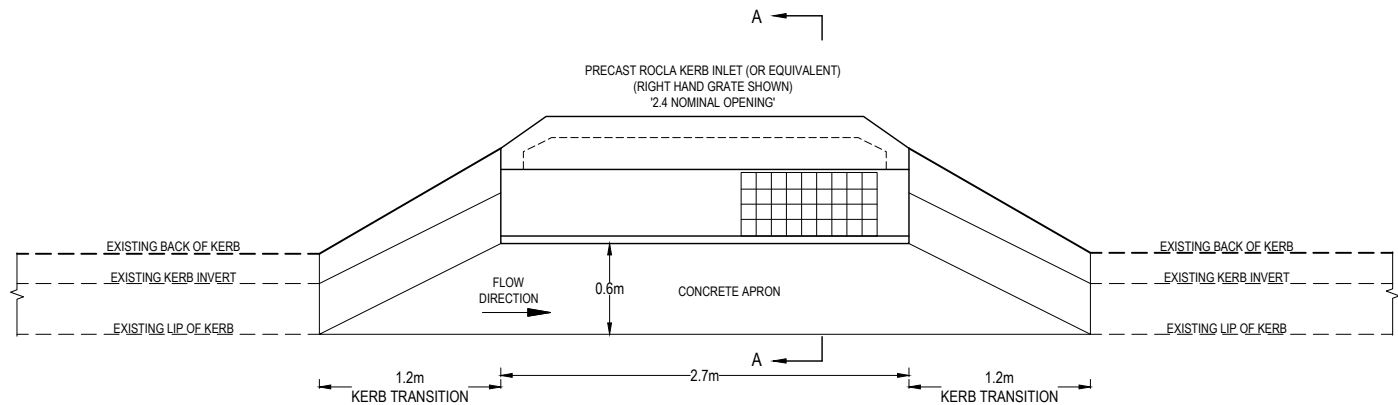
M2 KERB DETAIL (IDM SD100)
NOT TO SCALE



B2 KERB DETAIL (IDM SD100)
NOT TO SCALE



SECTION A-A
EXTENDED KERB INLET SECTION
NOT TO SCALE



EXTENDED KERB INLET DETAIL
NOT TO SCALE

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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 21 of 39
Approved by Mitchell Pennington
Approved Date: 13/02/2020**

NOTE:
ALL WORKS TO ABIDE BY THE APPROVED CONSTRUCTION MANAGEMENT PLAN AND MUST COMPLY WITH THE RECOMMENDATIONS OF THE ENVIRONMENT PROTECTION AUTHORITY (EPA) "CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL" (PUBLICATION NO 275). APPROPRIATE EROSION CONTROL TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIOD.

NOTE: THIS IS NOT A BUILDING APPROVAL
ALL CONCRETE WORKS TO BE BY CITY OF GREATER GEELONG DESIGN NOTE NO 12 ISSUED NOVEMBER 2020.

REV	DES	DWG	CHK	DATE
F	RQ	MM	MM	21/12/20
E	RQ	MM	MM	27/11/20
D	RQ	MM	MM	13/11/20
C	RQ	MM	MM	13/10/20
B	RQ	JH	JG	06/08/20
A	RQ	JH	JG	27/07/20

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estuary
LEOPOLD

SCALE N/A
LENGTHS ARE IN METRES - PAPER SIZE A3

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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
TYPICAL DETAILS (SHEET 2 OF 3)**
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY**
PROJECT & DWG No: A4041 RD09

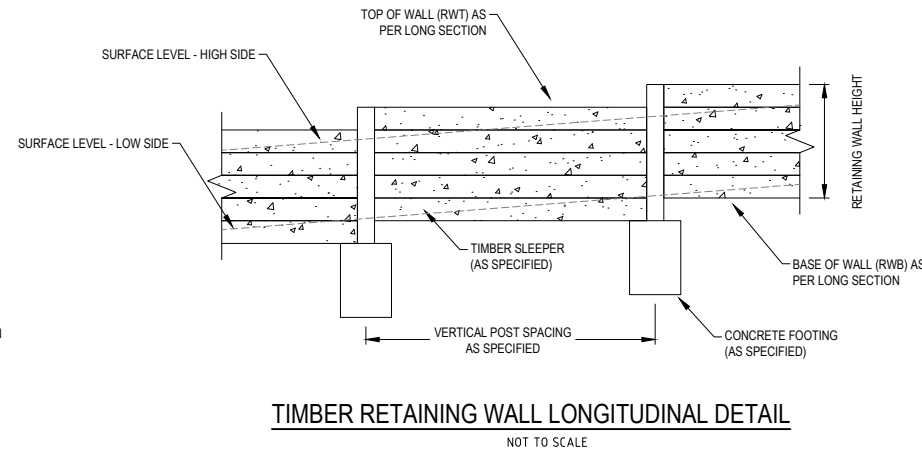
REV: F

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TIMBER RETAINING WALL POST & EMBEDMENT SCHEDULE

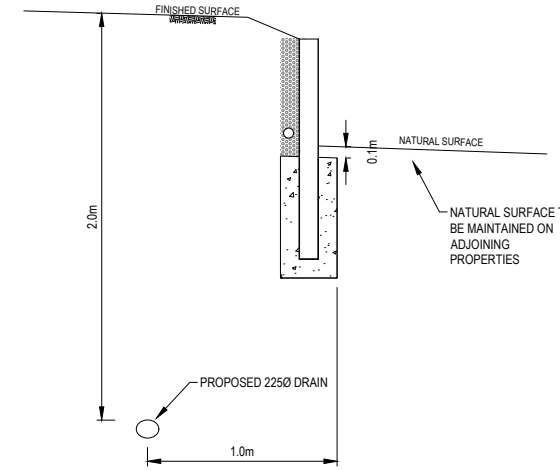
EFFECTIVE HEIGHT 'H' (m)	DEPTH OF EMBEDMENT 'D' (m)	DIA OF HOLE (m)	GRADE OF POSTS	150mm WIDE TRENCH OF 20mm SCREENINGS	AG DRAIN 100mmØ
0.2	0.30	0.45	150UB14.0	YES	-
0.6	0.60	0.45	150UB14.0	YES	-
1.0	0.75	0.45	150UB14.0	YES	YES

- 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



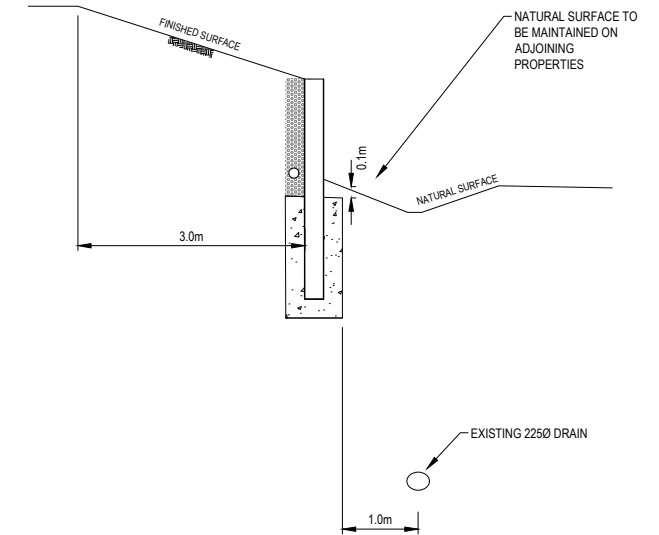
TIMBER RETAINING WALL LONGITUDINAL DETAIL

NOT TO SCALE



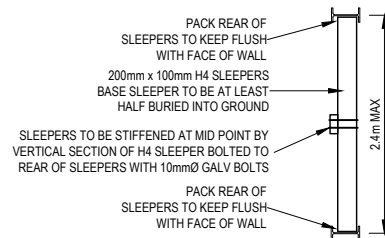
TIMBER RETAINING WALL - SECTION A-A

REFER SHEET A4041 RD09B
NOT TO SCALE



TIMBER RETAINING WALL - SECTION B-B

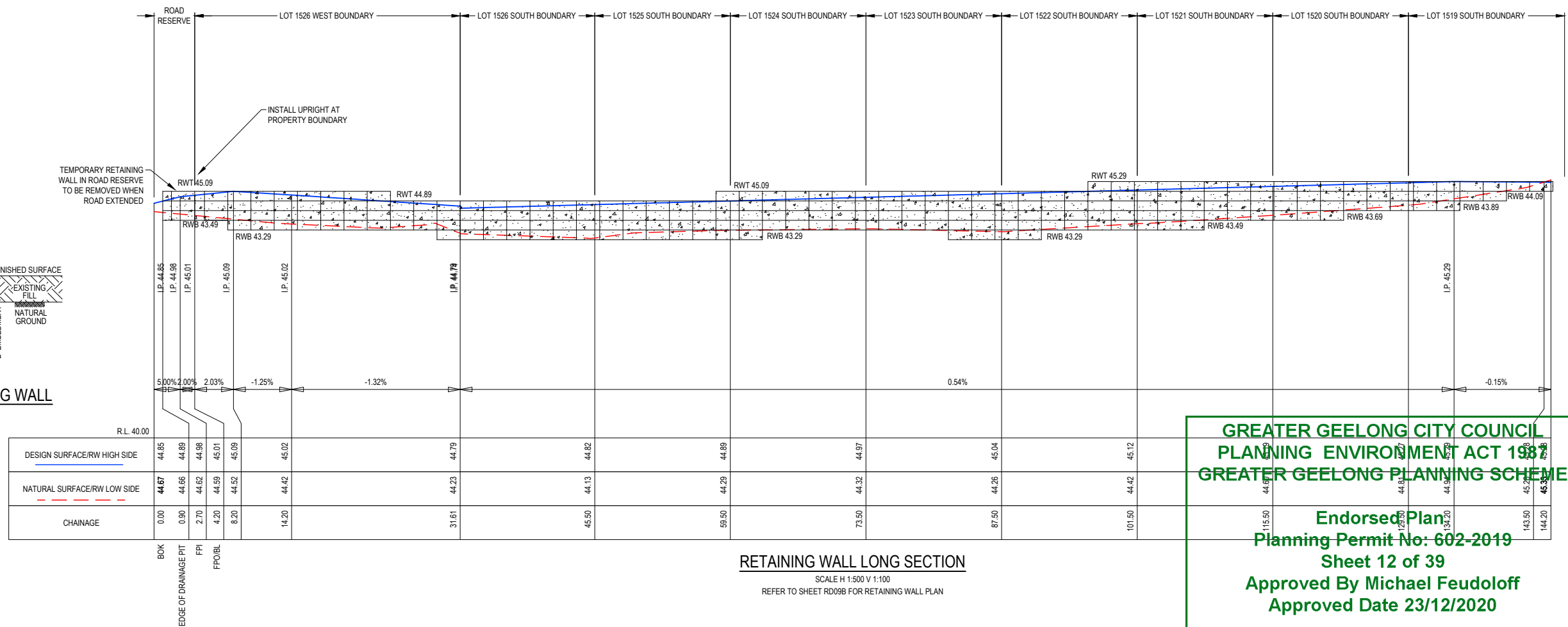
REFER SHEET A4041 RD09B
NOT TO SCALE



SLEEPERS TO BE STIFFENED AT MID POINT BY VERTICAL SECTION OF H4 SLEEPER BOLTED TO REAR OF SLEEPERS WITH 10mmØ GALV BOLTS

TIMBER RETAINING WALL

NOT TO SCALE



RETAINING WALL LONG SECTION

SCALE H 1:500 V 1:100

REFER TO SHEET RD09B FOR RETAINING WALL PLAN

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

Endorsed Plan
Planning Permit No: 602-2019
Sheet 12 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	



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SCALE AS SHOWN



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ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
TYPICAL DETAILS (SHEET 3 OF 3)

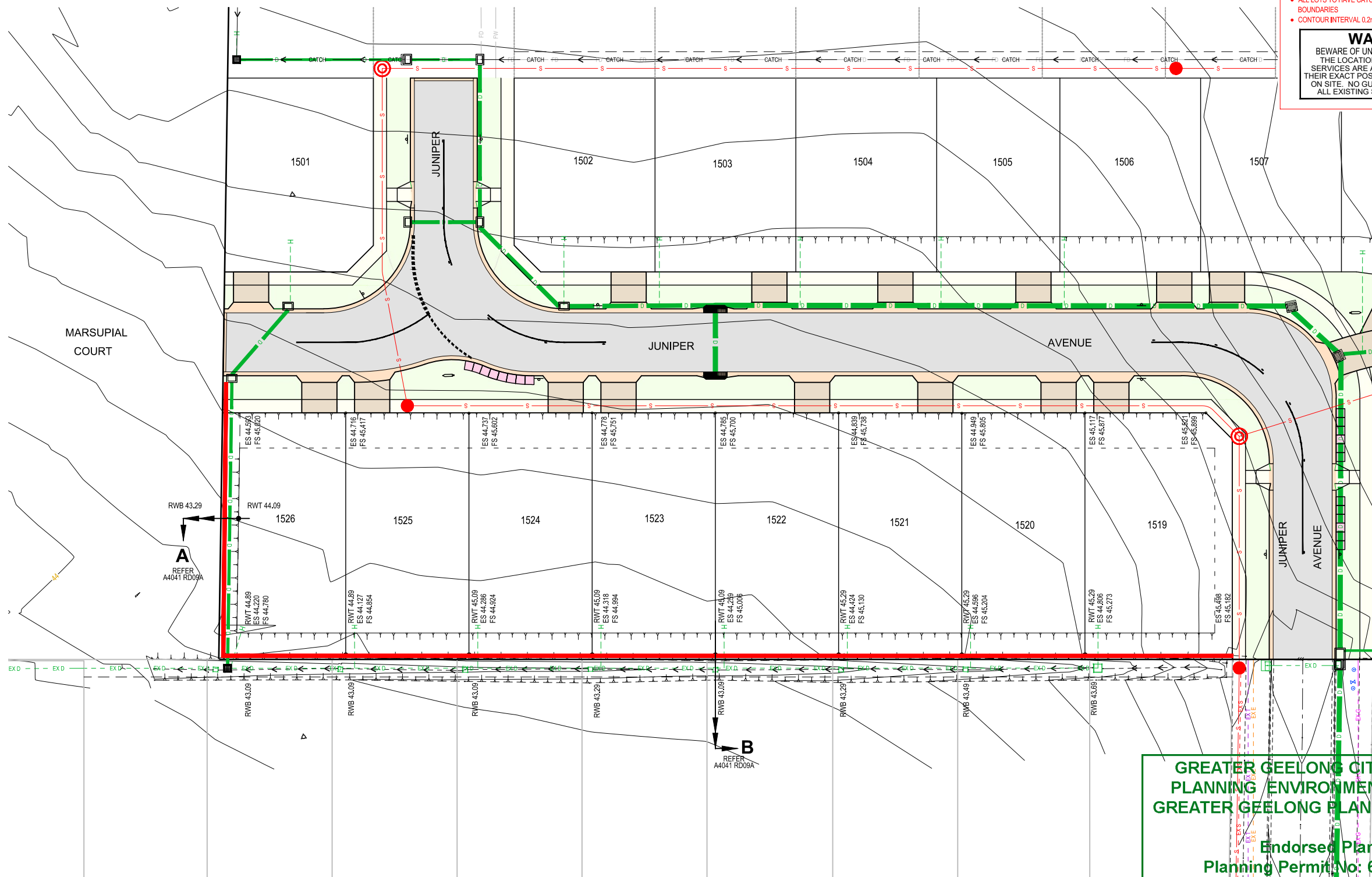
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: **A4041 RD09A**

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- GENERAL DESIGN DETAIL PLAN NOTES**
- APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 - ALL KERB IS TO BE 450mm B2
 - ALL KERB RETURNS ARE 10.0m RADIUS TO KERB INVERT
 - FOOTPATHS ARE 1.5m WIDE CONCRETE (UNLESS OTHERWISE SHOWN) AT A 0.05m O/S OFF THE BOUNDARY LINE.
 - ALL EASEMENT DRAINAGE PIPES & PITS ARE 1.0m O/S REAR & SIDE BOUNDARIES UNLESS OTHERWISE SHOWN
 - LEVEL 1 SUPERVISION PROPOSED FOR LOT EARTHWORKS ABOVE 0.3m (REFER LEGEND)
 - ALL LOTS TO HAVE CATCH DRAINS ALONG SIDE & REAR BOUNDARIES
 - CONTOUR INTERVAL 0.2m

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.



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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 13 of 39**

**Approved By Michael Feudloff
Approved Date 23/12/2020**

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E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
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A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE



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LENGTHS ARE IN METRES - PAPER SIZE A3

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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
RETAINING WALL PLAN**

CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

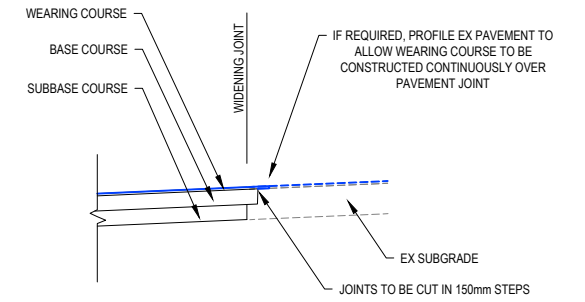
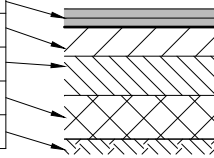
DWG STATUS:
PRELIMINARY

PROJECT & DWG No:
A4041 RD09B

REV:
F

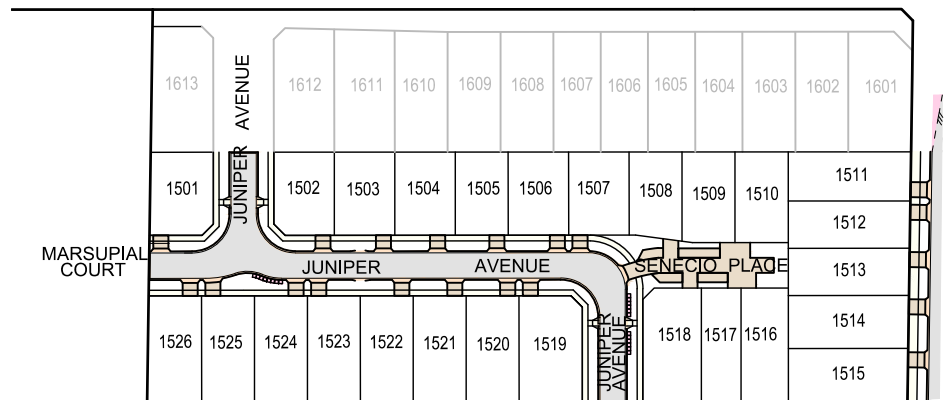
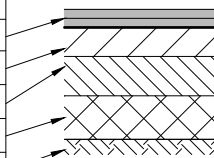
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PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMM66C-1285014404-1-ASH ROAD LEOPOLD C-VILLWOOD BENDIGO-LEOPOLD_986ENGINEERING\CIVIL\CURRENT DESIGN\A4041 RD CTN PLANS REV.A.DWG

400mm DEPTH PAVEMENT		JUNIPER AVENUE / MARSUPIAL COURT
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1. WEARING COURSE	40	SIZE 10 TYPE N BITUMINOUS SURFACING
2. UPPER BASE COURSE	150	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK
3. LOWER BASE COURSE	210	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK
4. SUBBASE COURSE	200	CAPPING LAYER (40mm NDCR COMPACT TO 98%SMDD)
5. SUBGRADE		COMPACTED SUBGRADE TO 98%SMDD



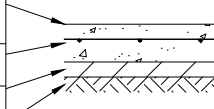
ASH ROAD WIDENING - DETAIL
NOT TO SCALE

370mm DEPTH PAVEMENT		ASH ROAD WIDENING
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1. WEARING COURSE	40	SIZE 10 TYPE H ASPHALT
2. UPPER BASE COURSE	150	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK
3. LOWER BASE COURSE	180	20mm NOM. SIZE CLASS 3 FINE CRUSHED ROCK
4. SUBBASE COURSE	200	40mm NOM. SIZE CLASS 4 CAPPING LAYER COMPACT TO 98% SDDD
5. SUBGRADE		COMPACTED SUBGRADE TO 98% SDDD

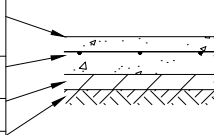


TEMPORARY GRAVEL PAVEMENT		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
1 BASE COURSE	250	20mm NOM. SIZE CLASS 2 FINE CRUSHED ROCK

JOINT REINFORCED CONCRETE PAVEMENT		SENECIO PLACE
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	170	JRCP REINFORCED WITH SL72 MESH. MIN STRENGTH 32MPa
3 BASE	150	20mm NOM. SIZE 5% CTCR
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



CONCRETE STD SINGLE & DOUBLE DRIVEWAY PAVEMENT DETAILS (IDM SD205)		
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 BELOW)
4 SUBGRADE		SUBGRADE PREPARATION (SEE NOTE 6 BELOW). SUBGRADE IMPROVEMENT AS DIRECTED BY SUPERINTENDENT



CONCRETE FOOTPATH & SHARED PATH PAVEMENT DETAILS (IDM SD 205)		
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 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

- PAVEMENT NOTES:
- ROAD PAVEMENT COMPOSITIONS TO BE AS PER GEOTECHNICAL REPORT 'ESTUARY II ESTATE, 132-144 ASH ROAD LEOPOLD' PREPARED BY GEOTEST CIVIL SERVICES
 - PAVEMENT BASE COURSES ARE TO BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 99% 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.
 - SOILS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm THICKNESS IN ACCORDANCE WITH RELEVANT STANDARDS.
 - WHEN PAVEMENTS FOR WALKWAYS OR FOOTPATHS ARE PLACED ON SOILS CONTAINING CLAY, CLAY MUST BE REMOVED. THIS SOIL SHALL BE REPLACED WITH APPROVED MATERIAL.
 - PRIOR TO PLACEMENT OF THE FILL MATERIAL UNDER NEW PAVEMENT, APPROVAL OF THE MATERIAL TO BE USED SHALL BE OBTAINED FROM THE ENGINEER.
 - ALL CONCRETE WORKS TO ABIDE WITH CITY OF GREATER GEELONG'S DESIGN NOTE No 12 ISSUED 2020

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

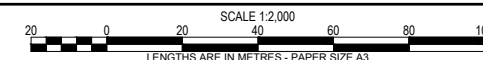
Endorsed Plan
Planning Permit No: 602-2019
Sheet 14 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	DESCRIPTION	DES	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20
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A	ISSUED FOR TENDER	RQ	JH	27/07/20



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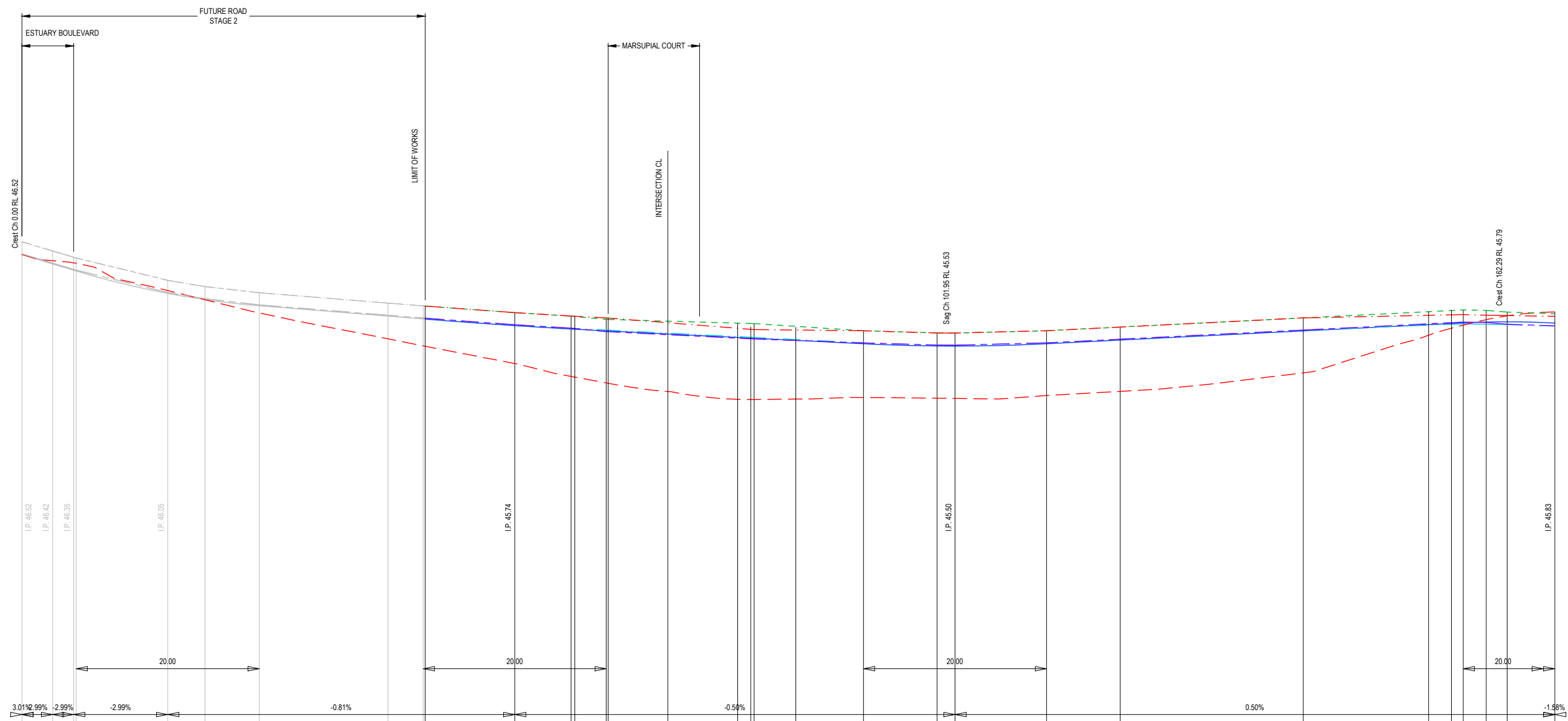
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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD PAVEMENT DETAILS
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD10

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CHAINAGE	EXISTING SURFACE	RIGHT INSIDE \ ROADSIDE FOOTPATH	LEFT INSIDE \ ROADSIDE FOOTPATH	RIGHT BOK	LEFT BOK	DESIGN C.L.
0.00	46.52	46.66	46.66	46.53	46.53	46.52
3.35	46.46	46.56	46.56	46.43	46.43	46.42
5.65	46.43	46.49	46.36	46.36	46.35	46.35
5.93	46.43	46.49	46.35	46.35	46.34	46.34
15.93	46.13	46.24	46.24	46.11	46.11	46.10
20.00	46.03	46.17	46.17	46.04	46.04	46.03
25.93	45.89	46.11	46.11	45.97	45.97	45.97
40.00	45.60	45.99	45.99	45.86	45.86	45.85
43.85	45.53	45.96	45.96	45.83	45.83	45.82
44.06	45.56	45.96	45.96	45.83	45.83	45.82
53.85	45.33	45.89	45.89	45.76	45.76	45.75
60.00	45.19	45.85	45.85	45.72	45.72	45.71
60.41	45.30	45.85	45.85	45.72	45.72	45.71
63.85	45.12	45.83	45.82	45.70	45.69	45.69
64.05	45.20	45.83	45.81	45.70	45.69	45.69
70.57	45.01	45.80	45.80	45.67	45.62	45.66
79.76	44.87	45.70	45.77	45.62	45.60	45.61
79.83	44.87	45.73	45.74	45.62	45.60	45.61
80.00	44.94	45.71	45.77	45.62	45.60	45.61
84.55	44.85	45.73	45.73	45.60	45.60	45.59
91.95	44.96	45.69	45.69	45.56	45.56	45.55
100.00	44.96	45.67	45.67	45.54	45.54	45.53
101.95	44.95	45.67	45.67	45.53	45.53	45.53
111.95	44.98	45.69	45.69	45.56	45.56	45.55
120.00	45.03	45.73	45.73	45.60	45.60	45.59
140.00	45.23	45.83	45.70	45.69	45.69	45.69
153.70	45.56	45.90	45.90	45.77	45.77	45.76
156.20	45.65	45.92	45.92	45.77	45.77	45.77
157.48	45.70	45.93	45.92	45.78	45.78	45.78
160.00	45.83	45.94	45.94	45.81	45.79	45.79
162.29	45.86	45.96	45.90	45.76	45.79	45.79
167.48	45.90	45.85	45.88	45.74	45.78	45.83

GREATER GEELONG CITY COUNCIL
PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME
 Endorsed Plan
 Planning Permit No 602/2019
 Sheet 15 of 19
 Approved By Michael Paupoloff
 Approved Date 23/12/2020
NOTE: THIS IS NOT A BUILDING APPROVAL

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A	ISSUED FOR TENDER	RQ	JG	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE

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estuary

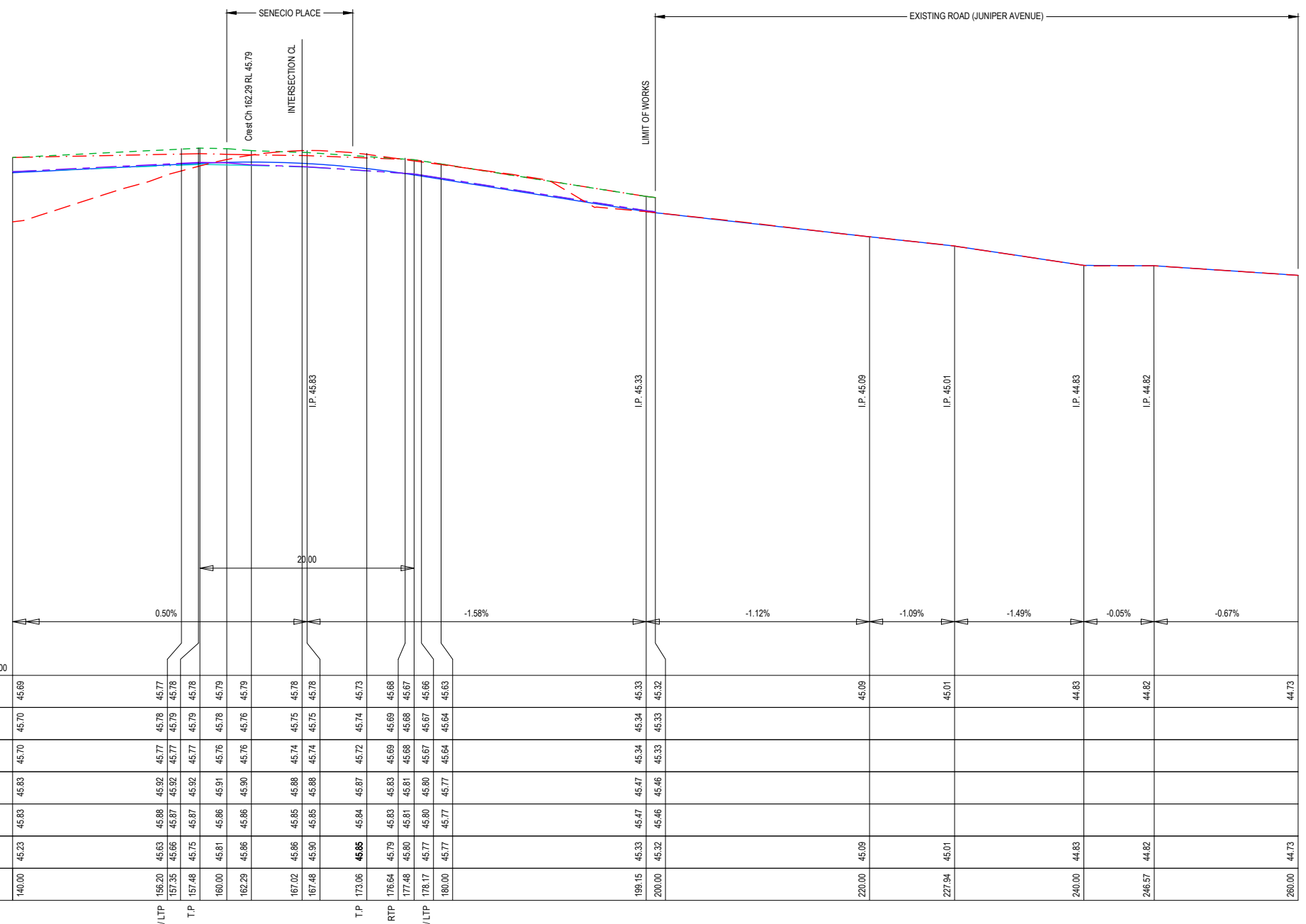
 LEOPOLD

SCALE H 1:500 V 1:50

 LENGTHS ARE IN METRES - PAPER SIZE A3
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ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
JUNIPER AVENUE LONG SECTION (SHEET 1 OF 2)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: **PRELIMINARY**
 PROJECT & DWG No: A4041 RD11
 REV: F

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 PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMM660-12801\44041 - ASH ROAD LEOPOLD C - VILLWOOD BENDIGO LEOPOLD_986ENGINEERING\CIVIL\CURRENT DESIGN\44041 - RD CTN PLANS REV.A.DWG



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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 16 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020**

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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20
A	ISSUED FOR TENDER	RQ	JH	27/07/20

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estuary
LEOPOLD

SCALE H 1:500 V 1:50
LENGTHS ARE IN METRES - PAPER SIZE A3

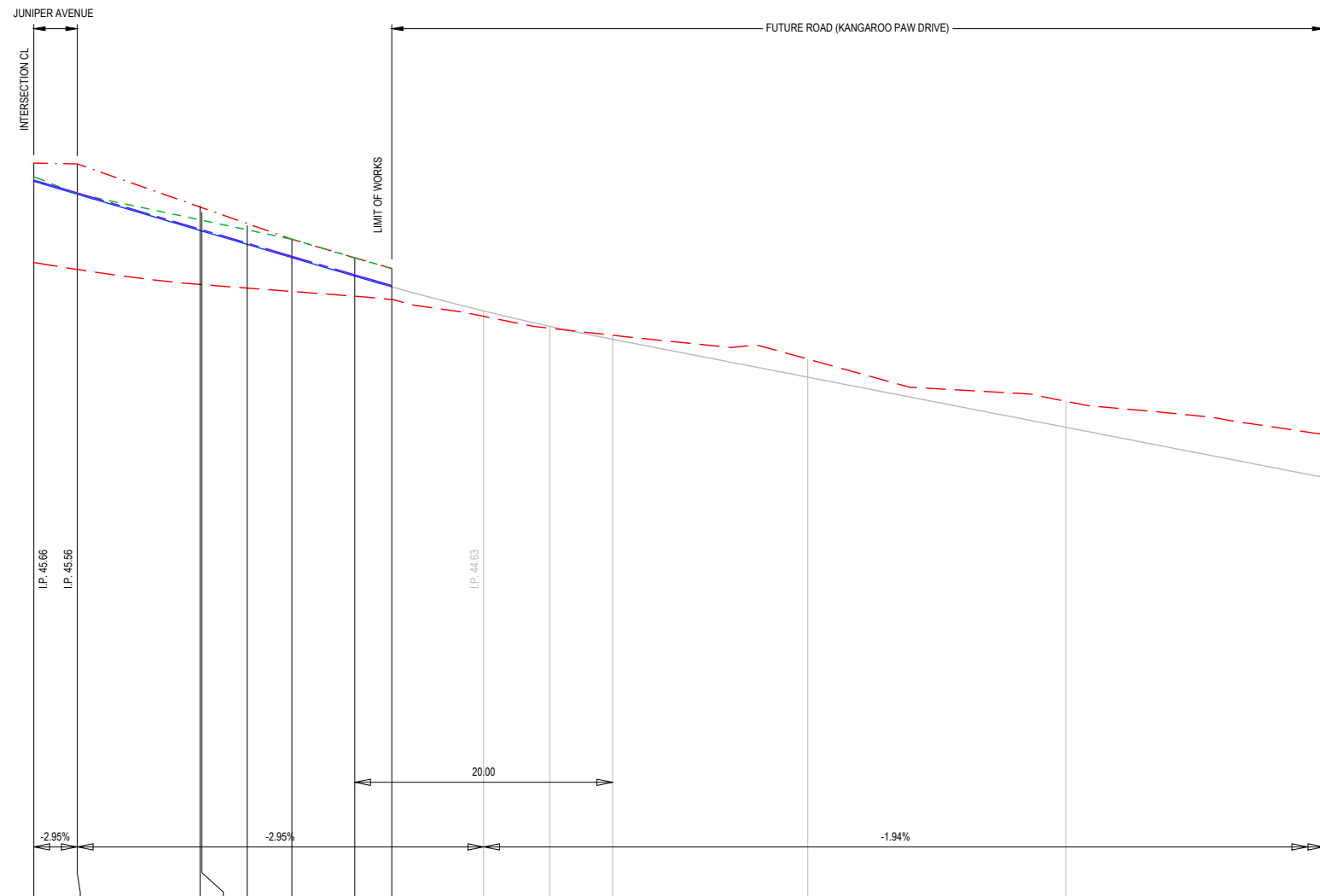
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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
JUNIPER AVENUE LONG SECTION (SHEET 2 OF 2)**

CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD12

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DESIGN C.L.	45.66	45.67	45.29	45.29	45.17	45.07	44.92	44.84	44.65	44.53	44.43	44.14	43.75	43.36
LEFT BOK	45.67	45.57	45.29	45.29	45.18	45.08	44.93	44.85						
RIGHT BOK	45.67	45.57	45.29	45.29	45.18	45.08	44.93	44.85						
LEFT INSIDE \ ROADSIDE FOOTPATH	45.69	45.59	45.29	45.29	45.31	45.21	44.98	44.98						
RIGHT INSIDE \ ROADSIDE FOOTPATH	45.80	45.79	45.42	45.29	45.31	45.21	44.98	44.98						
EXISTING SURFACE	45.03	44.97	44.06	44.86	44.83	44.80	44.77	44.74	44.61	44.52	44.46	44.28	43.95	43.69
CHAINAGE	0.00	3.36	12.89	13.03	15.54	20.00	24.87	27.75	34.87	40.00	44.87	60.00	80.00	100.00

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

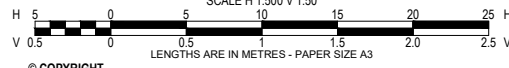

Endorsed Plan
Planning Permit No: 602-2019
Sheet 17 of 39
Approved By Michael Feudloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM		21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM		27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM		13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM		13/10/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20

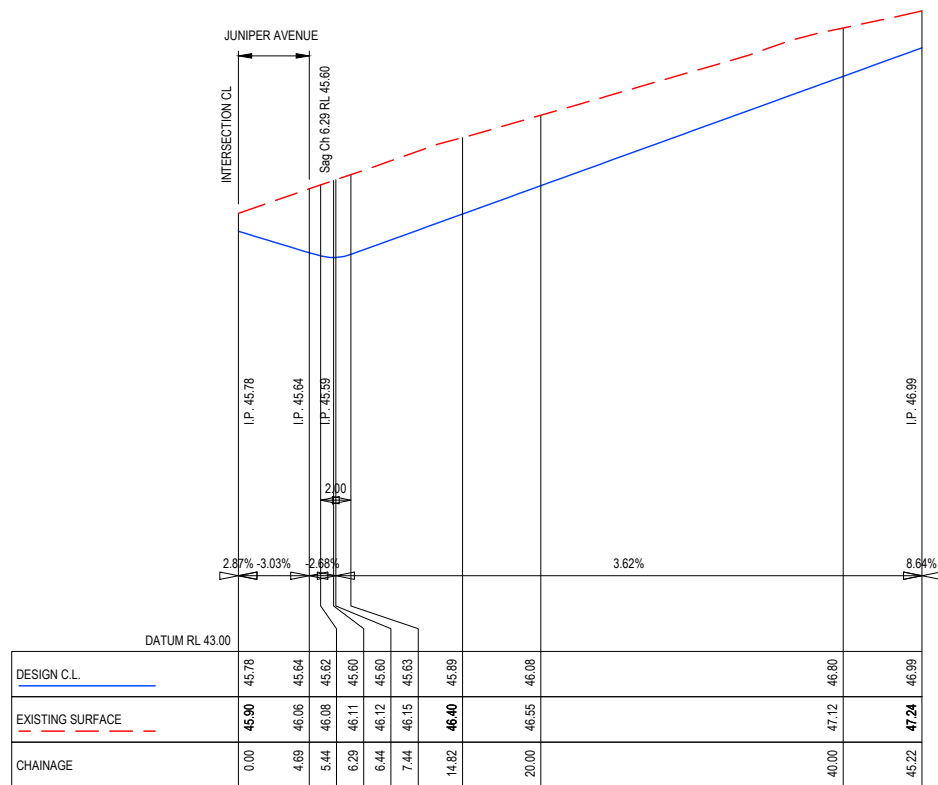

Tomkinson Group
 1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM


estuary
 LEOPOLD

SCALE H 1:500 V 1:50

 LENGTHS ARE IN METRES - PAPER SIZE A3
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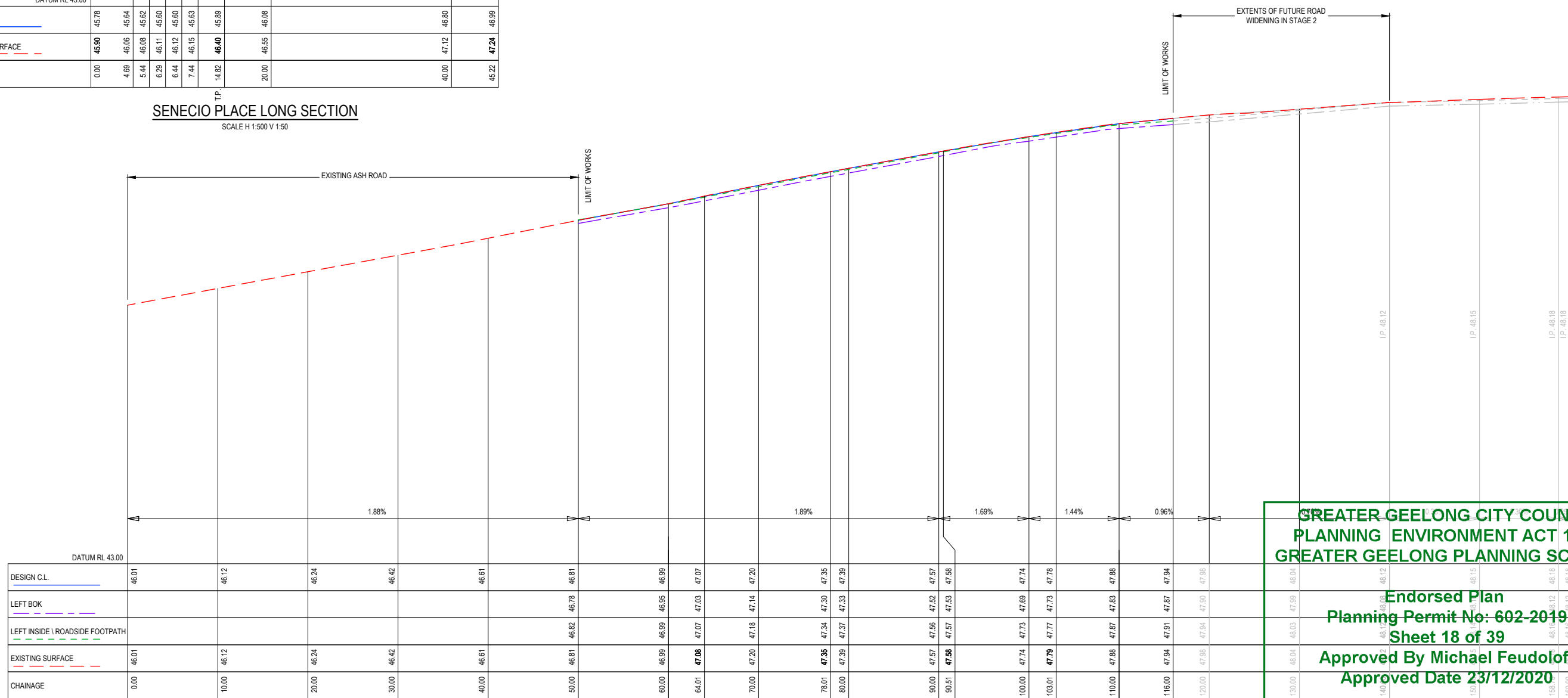
ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
MARSUPIAL COURT LONG SECTION
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: **PRELIMINARY** PROJECT & DWG No: **A4041 RD13** REV: **F**

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 PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMM66C-1285014404-1-ASH RD LEOPOLD C-VILLWOOD BENDIGO-LEOPOLD_986ENGINEERING\CIVIL\DD\CURRENT DESIGN\44041-RD CTN PLANS REV.A.DWG



SENECIO PLACE LONG SECTION

SCALE H 1:500 V 1:50



ASH ROAD SHOULDER WIDENING LONG SECTION

SCALE H 1:500 V 1:50

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

Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 18 of 39

Approved By Michael Feudloff
 Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20



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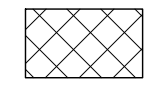
ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 SENECIO PLACE & ASH ROAD LONG SECTIONS
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS:
PRELIMINARY

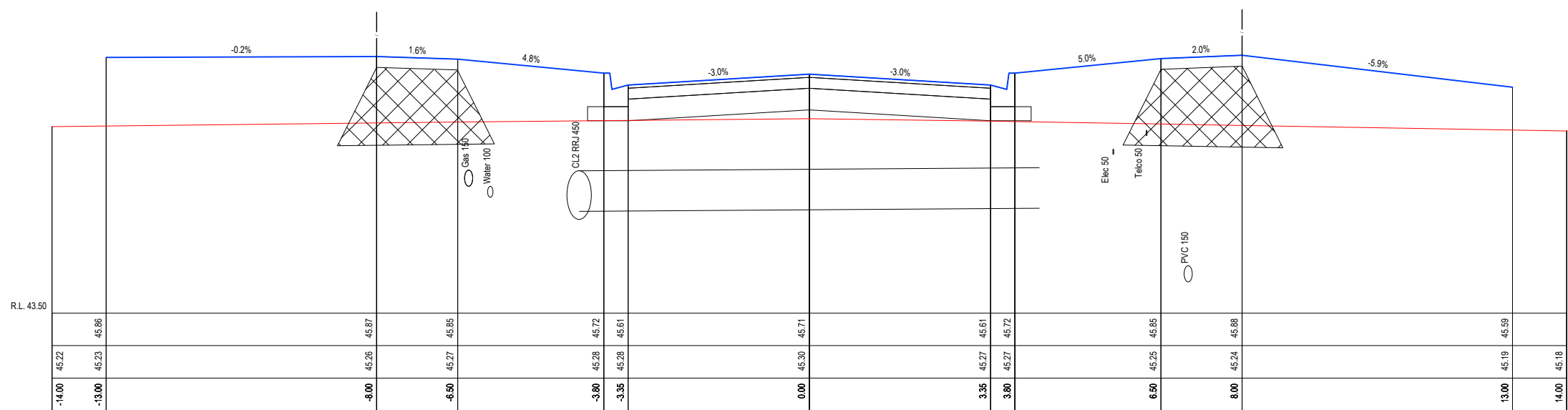
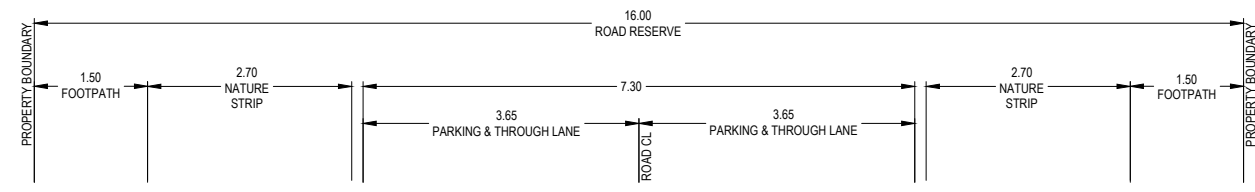
PROJECT & DWG No:
 A4041 RD14

REV:
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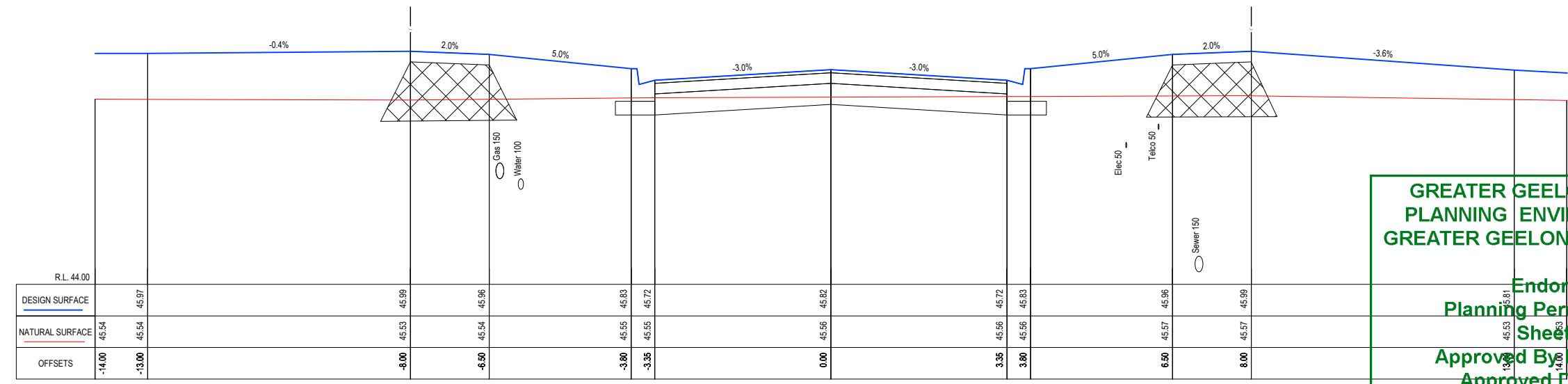
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GENERAL DESIGN NOTES
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 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL.



CH 60.41



CH 44.06

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 19 of 39**

**Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	DES	DWG	CHK	DATE
F	RQ	MM	JG	21/12/20
E	RQ	MM	JG	27/11/20
D	RQ	MM	JG	13/11/20
C	RQ	MM	JG	13/10/20
B	RQ	JH	JG	06/08/20
A	RQ	JH	JG	27/07/20

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estuary
 LEOPOLD

SCALE H 1:100 V 1:50
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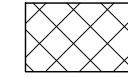
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 1 OF 8)**

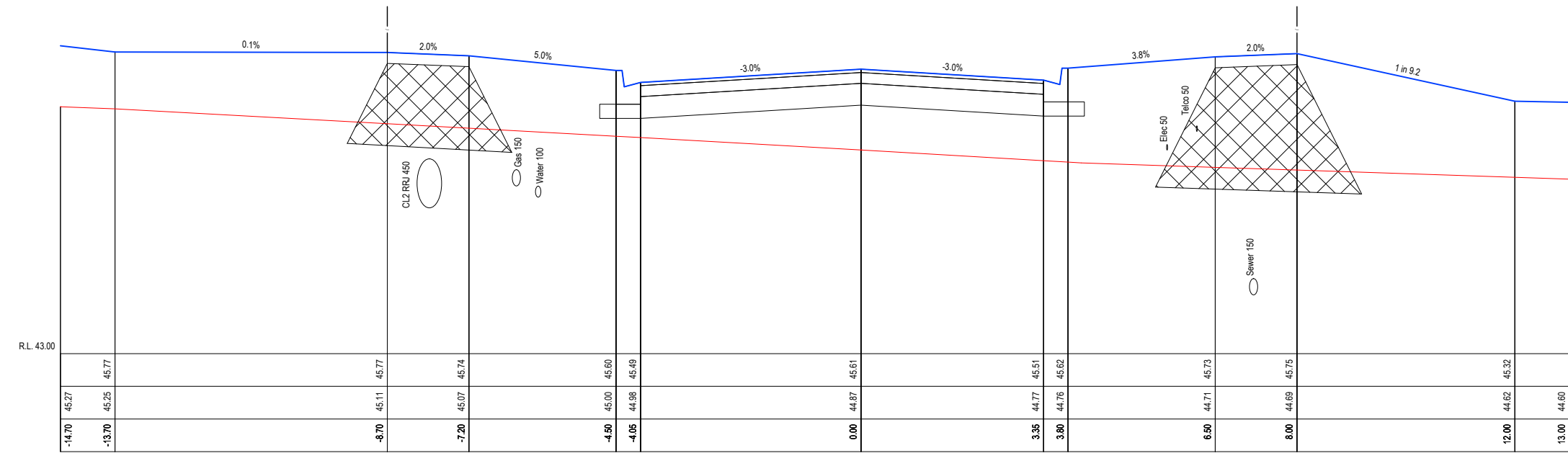
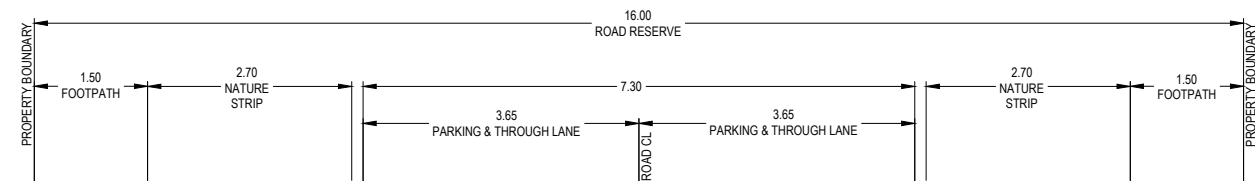
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4014 RD15

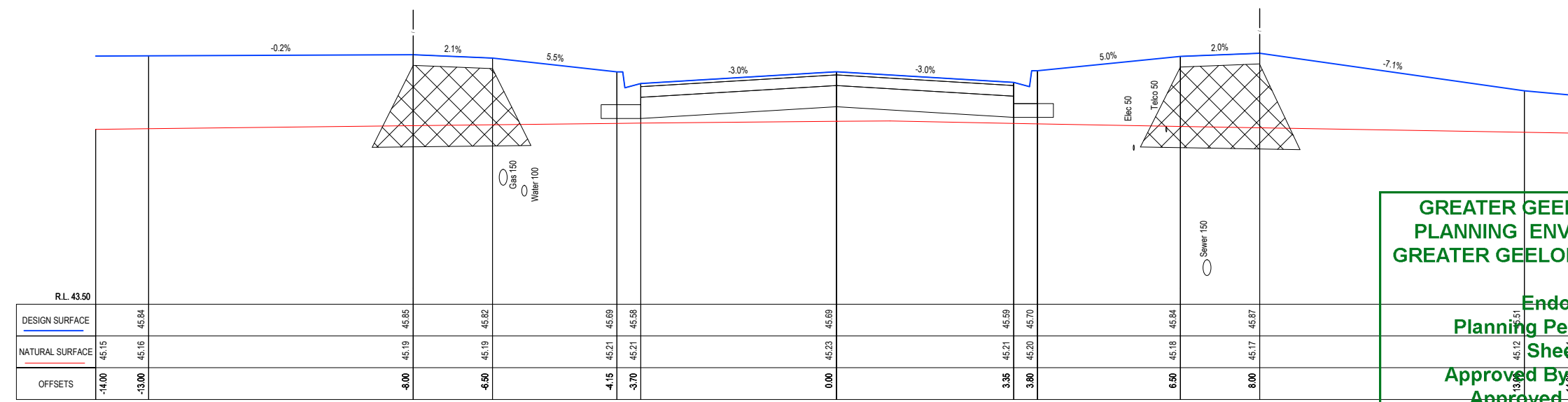
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GENERAL DESIGN NOTES
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CH 79.63 RTP (B1)



TP CH 63.06

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

Endorsed Plan
Planning Permit No: 602-2019
Sheet 20 of 39
Approved By: Michael Feudloff
Approved Date: 23/12/2020

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F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	JG	06/08/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	27/07/20
A	ISSUED FOR TENDER	RQ	JH	27/07/20

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

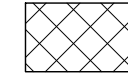
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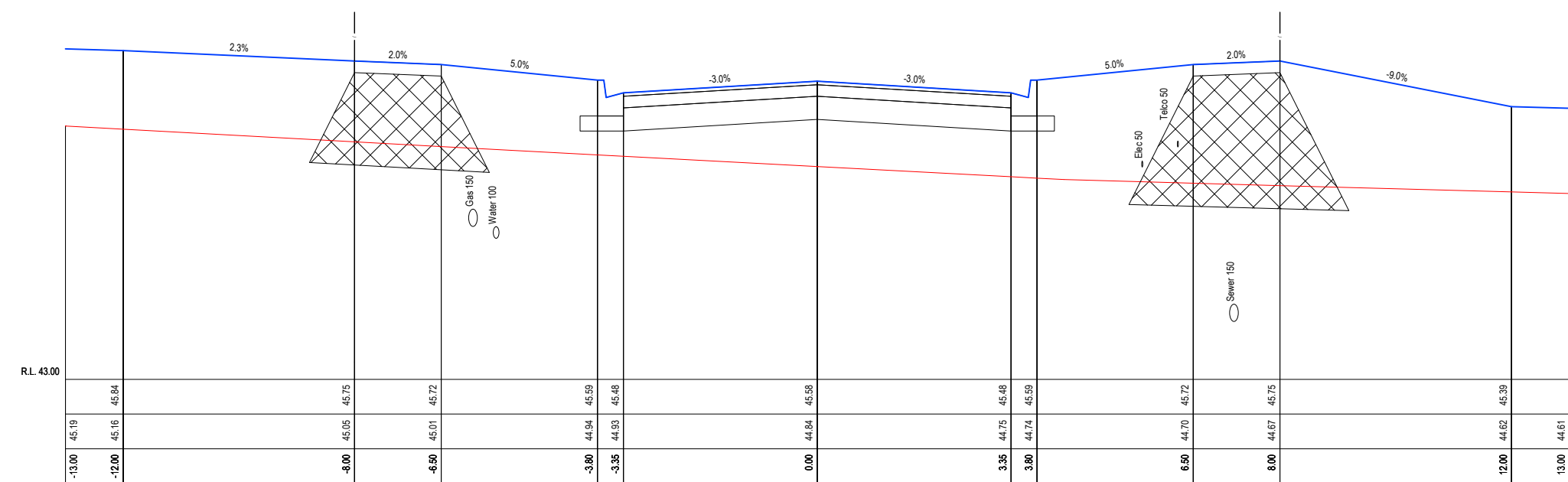
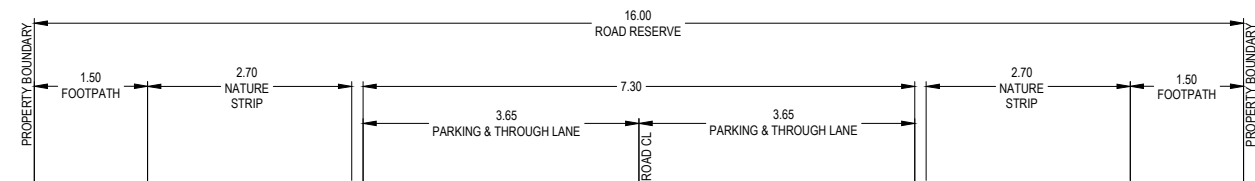
ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
JUNIPER AVENUE CROSS SECTIONS (SHEET 2 OF 8)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD16

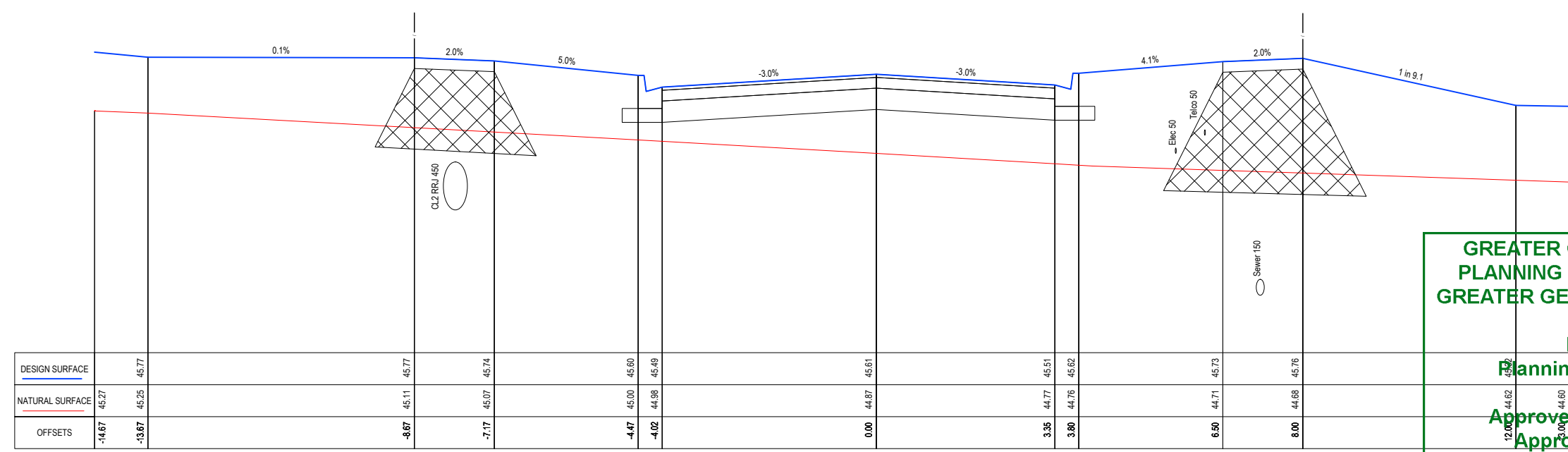
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GENERAL DESIGN NOTES
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CH 86.62



CH 79.76

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 21 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50
 LENGTHS ARE IN METRES - PAPER SIZE A3

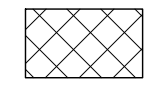
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 3 OF 8)**

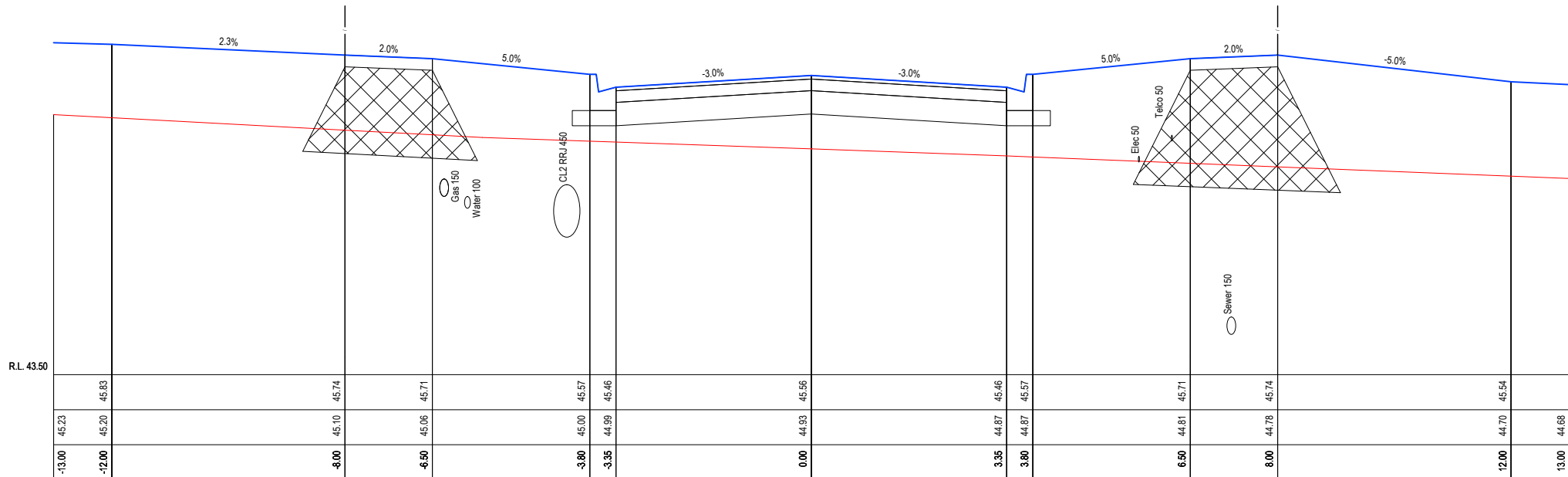
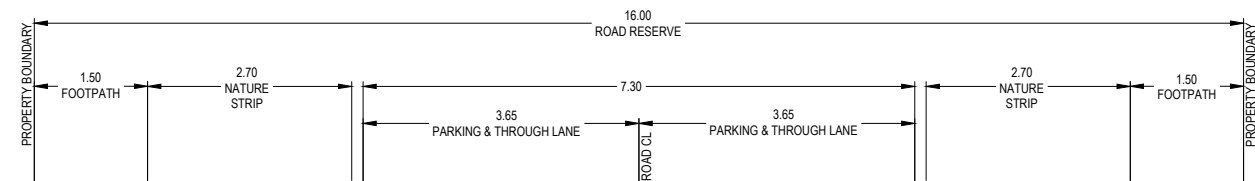
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD17

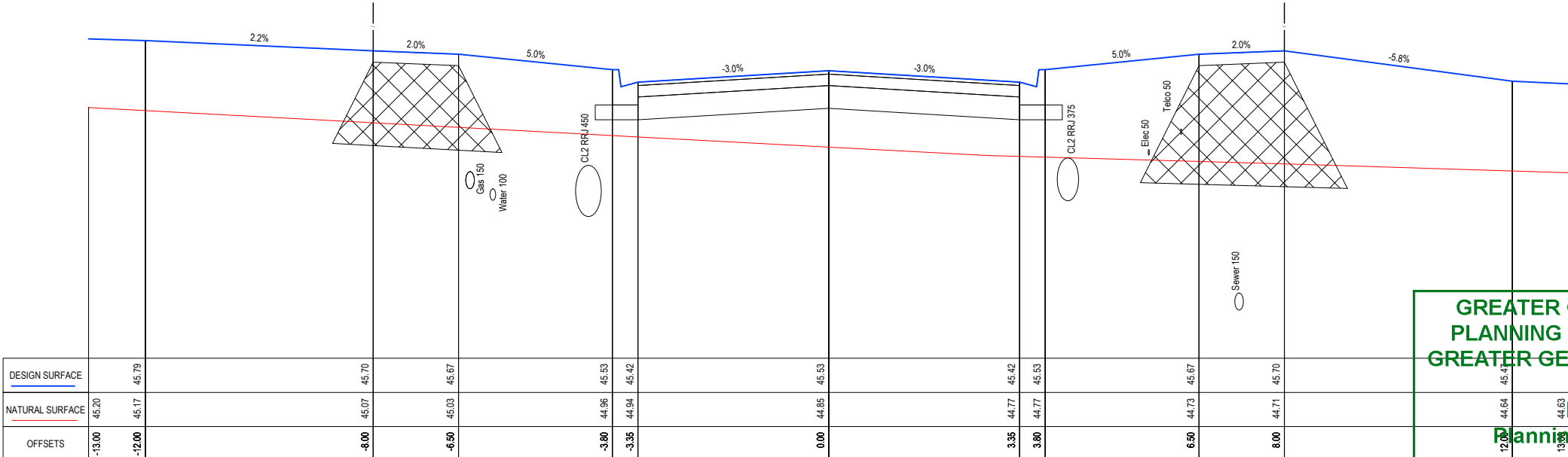
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL.



CH 114.62



CH 100.62

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 22 of 39**

**Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

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 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50

LENGTHS ARE IN METRES - PAPER SIZE A3

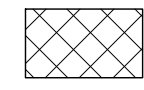
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 4 OF 8)**

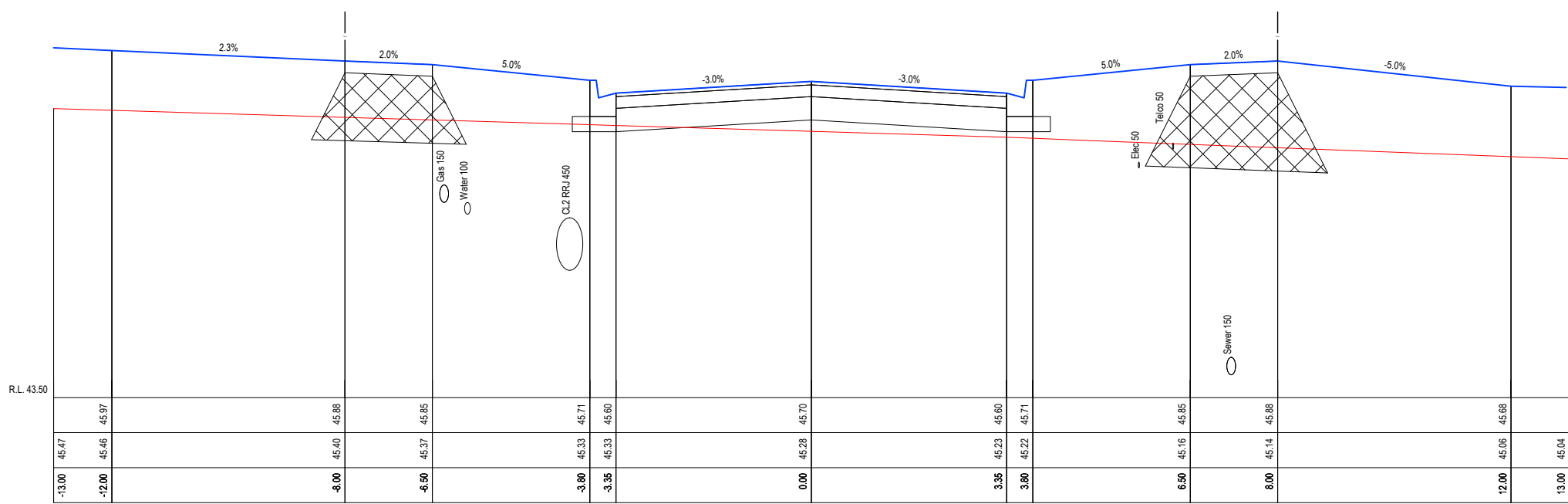
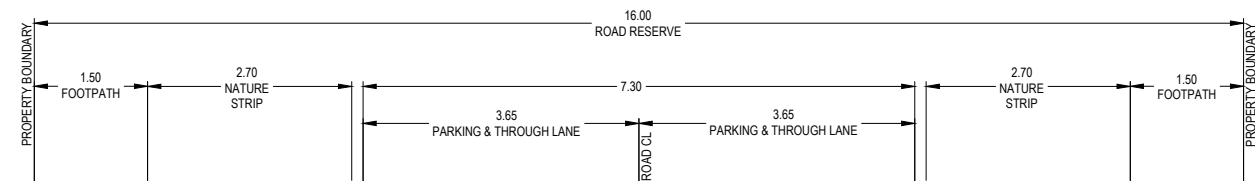
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD18

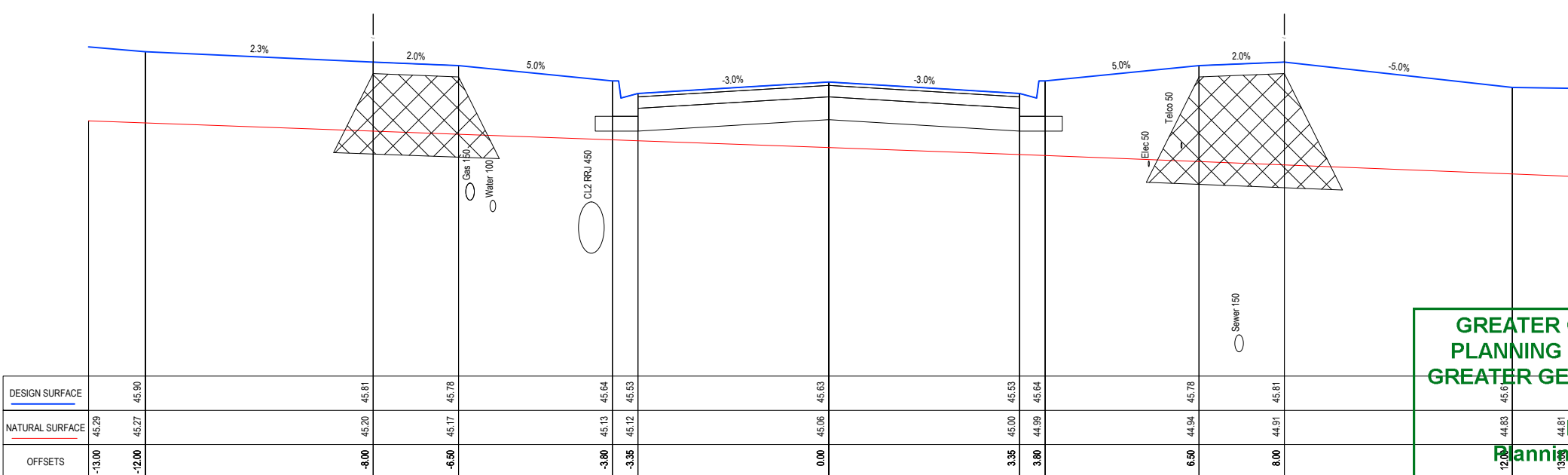
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 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 142.62



CH 128.62

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 23 of 39**

**Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	JG	06/08/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	27/07/20
A	ISSUED FOR TENDER	RQ	JH	27/07/20

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SCALE H 1:100 V 1:50

H 1 0 1 2 3 4 5 H
 V 0.5 1 1.5 2 2.5 V

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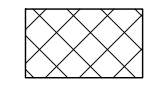
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 5 OF 8)**

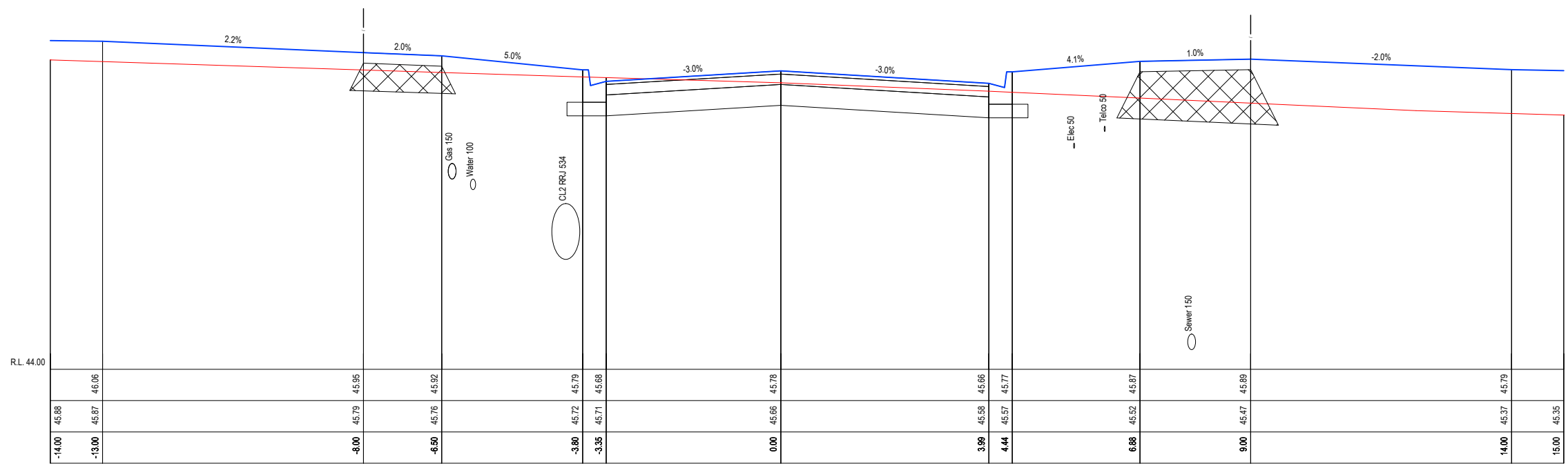
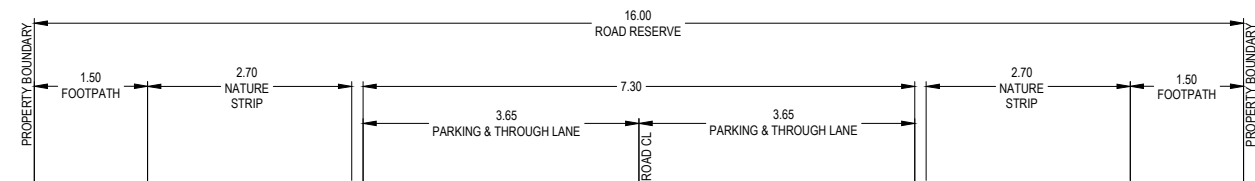
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 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD18A

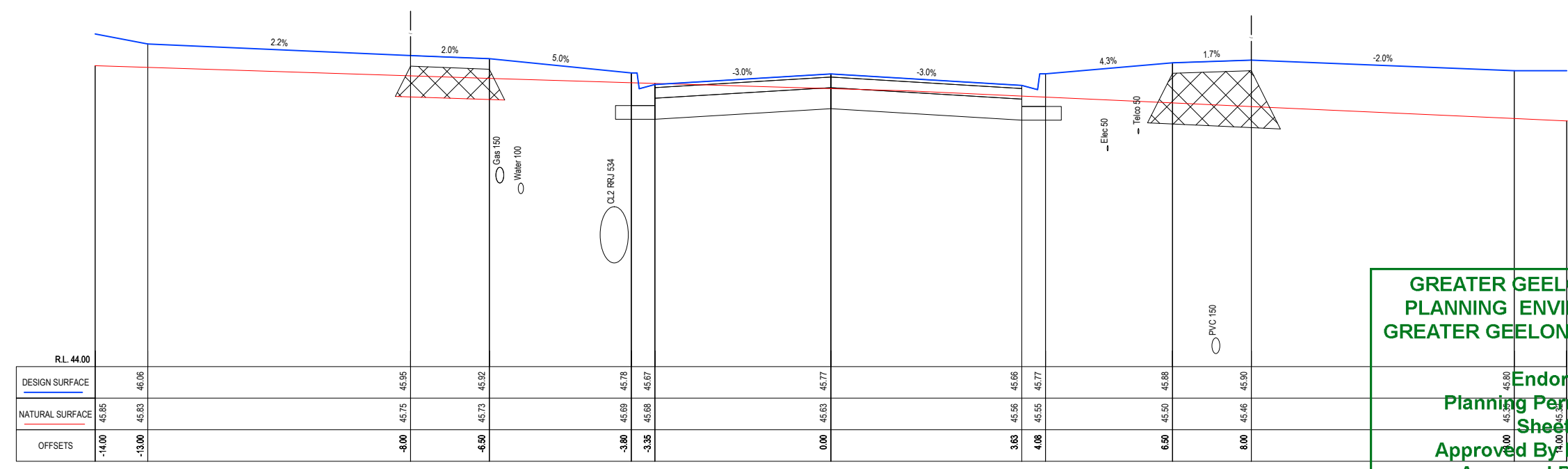
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 157.35



CH 156.20 LTP (C1)

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 24 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50
 H 1 0 1 2 3 4 5
 V 0.5 1 1.5 2 2.5

LENGTHS ARE IN METRES - PAPER SIZE A3

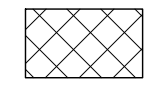
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 6 OF 8)**

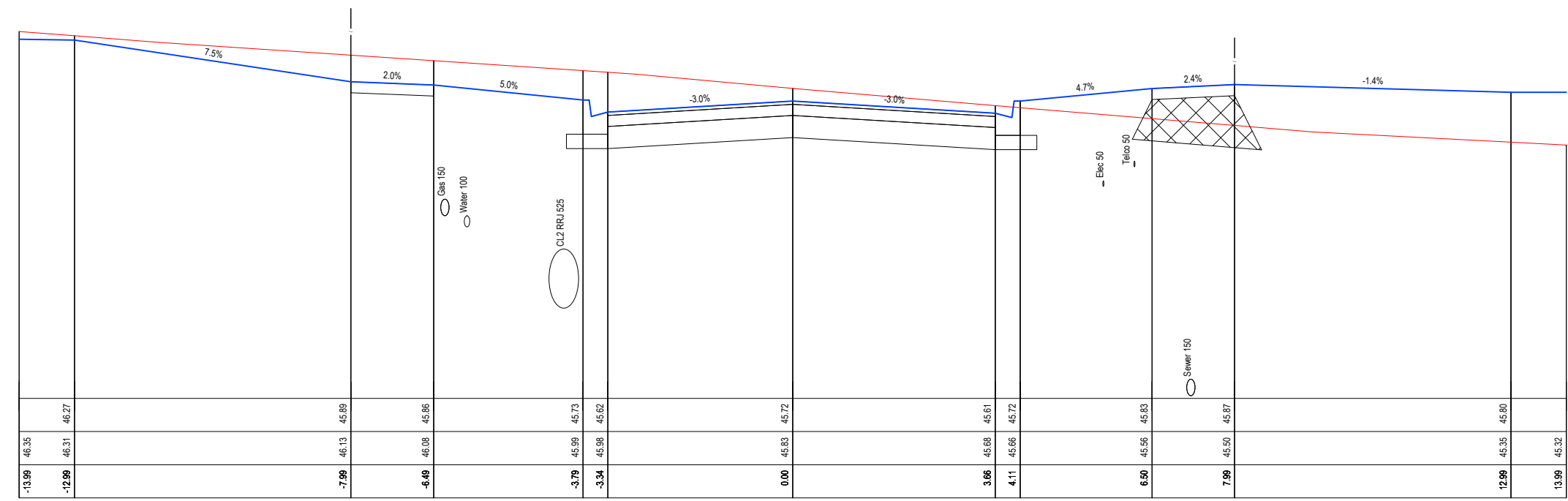
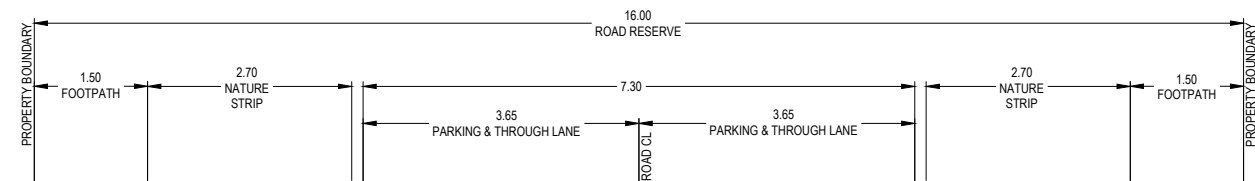
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD18B

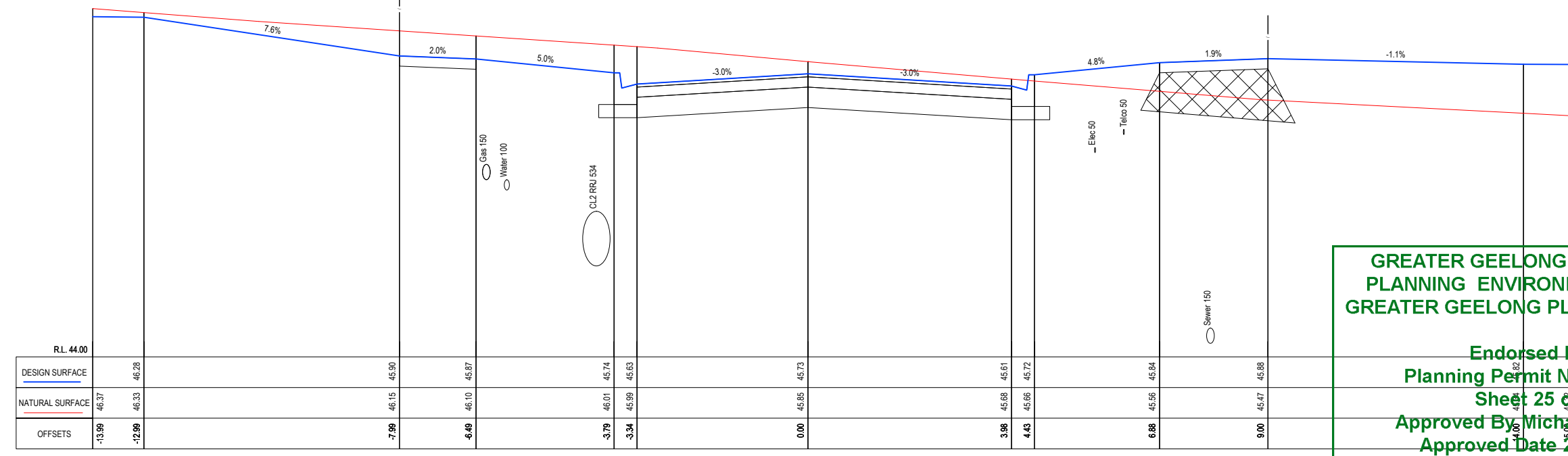
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL.



CH 174.07



CH 173.06

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 25 of 39
 Approved By: Michael Feudloff
 Approved Date: 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	JG	06/08/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JG	27/07/20	
A	ISSUED FOR TENDER				
REV	REVISION	DES	DWG	CHK	DATE

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 ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary
 LEOPOLD

SCALE H 1:100 V 1:50
 LENGTHS ARE IN METRES - PAPER SIZE A3

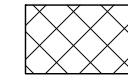
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 7 OF 8)**

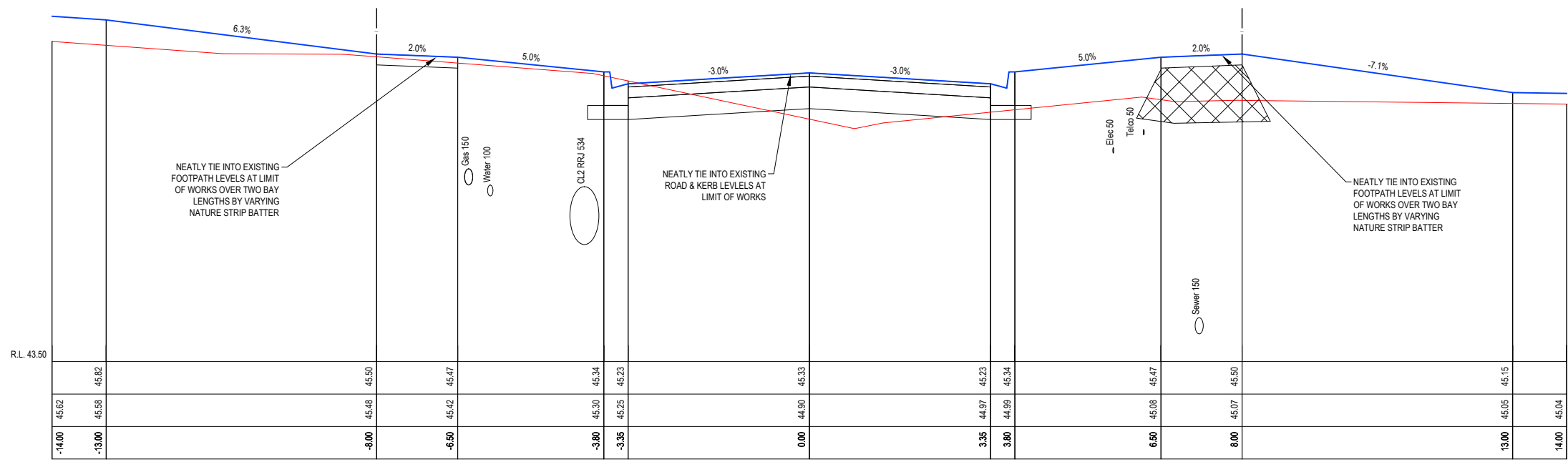
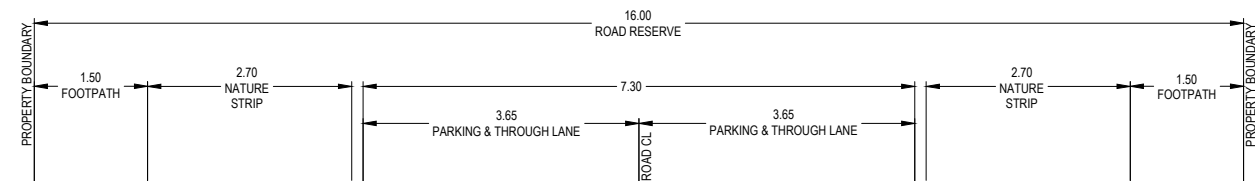
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD18C

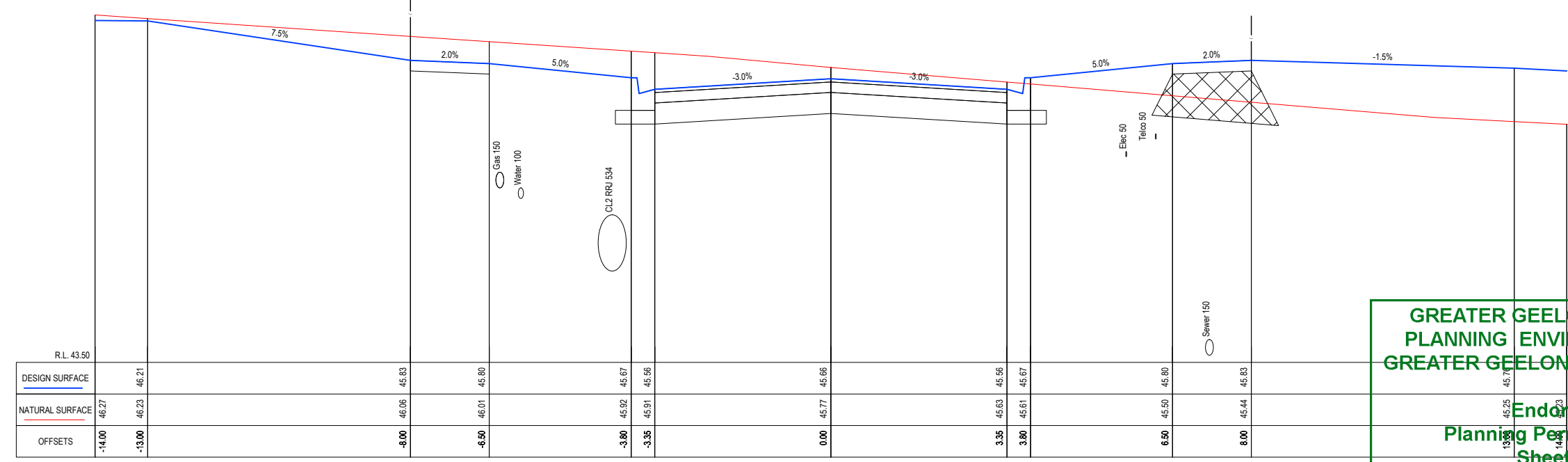
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 199.06



CH 178.17 LTP (C2)

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 26 of 39**

**Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50

LENGTHS ARE IN METRES - PAPER SIZE A3

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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 JUNIPER AVENUE CROSS SECTIONS (SHEET 8 OF 8)**

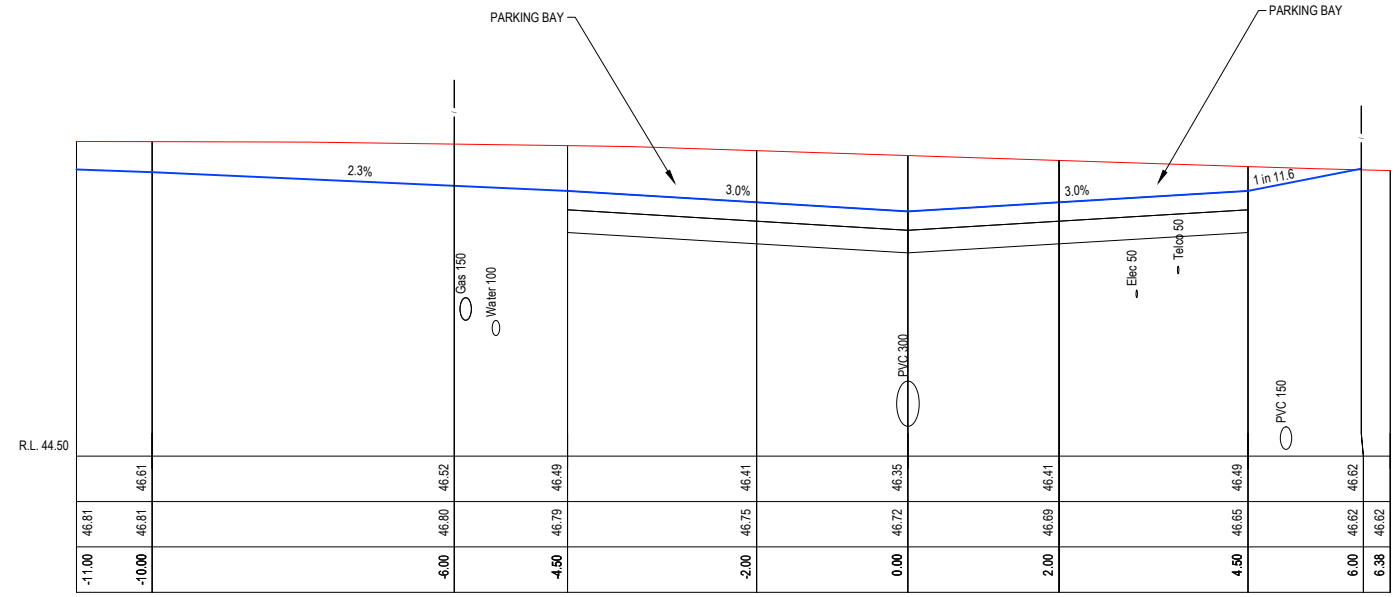
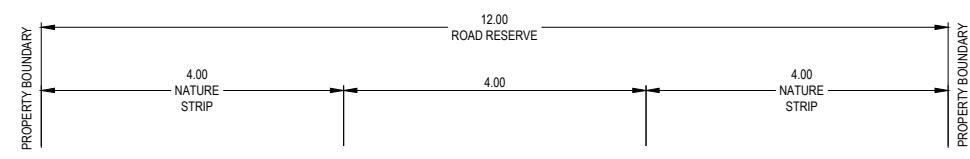
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD18D

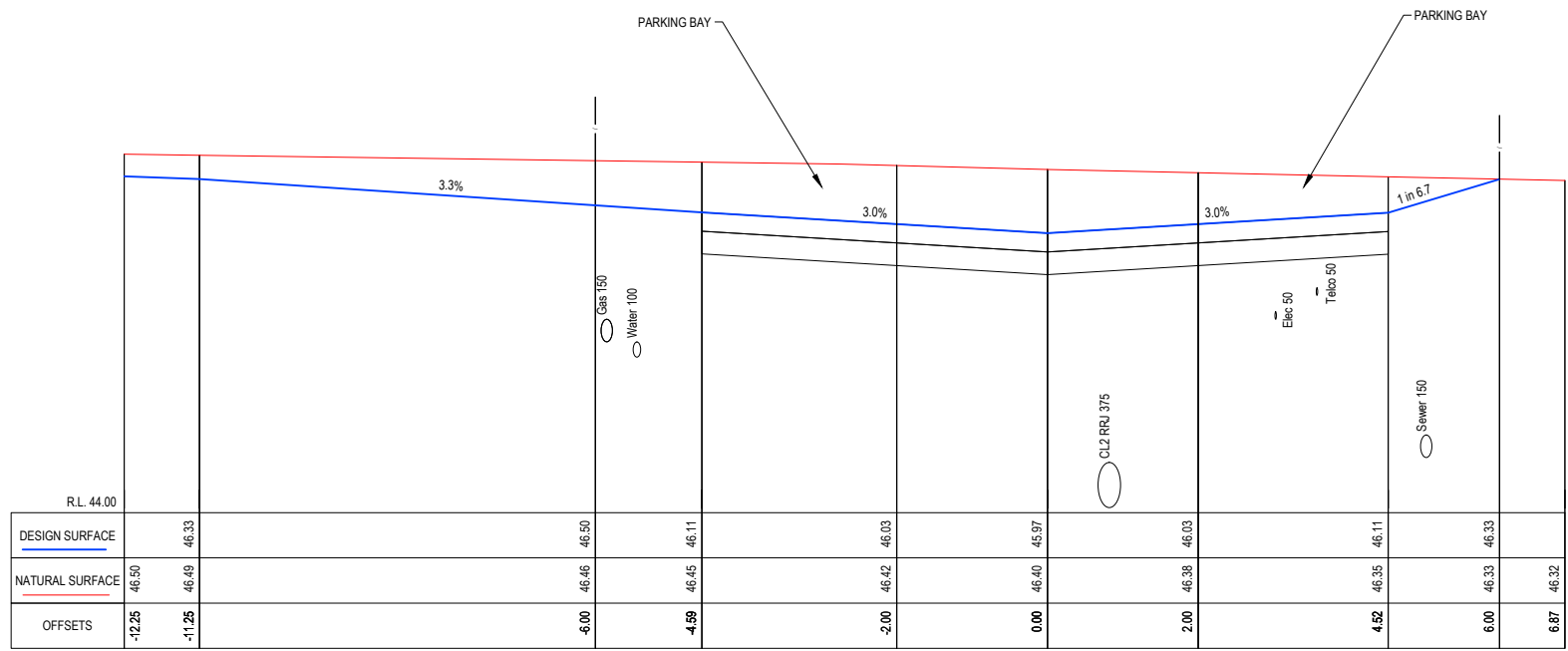
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL.



CH 26.07



CH 14.82

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 27 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20
A	ISSUED FOR TENDER	RQ	JH	27/07/20

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50
 H 1 0 1 2 3 4 5
 V 0.5 1 1.5 2 2.5

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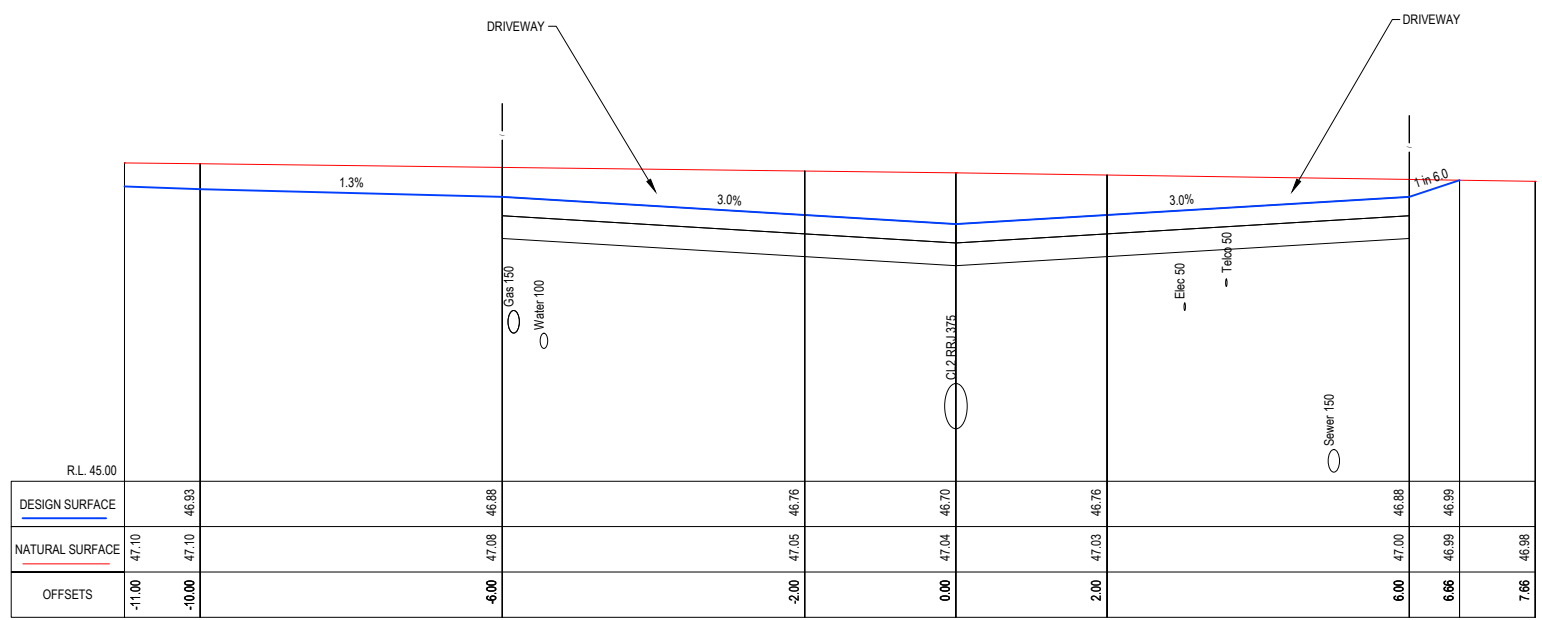
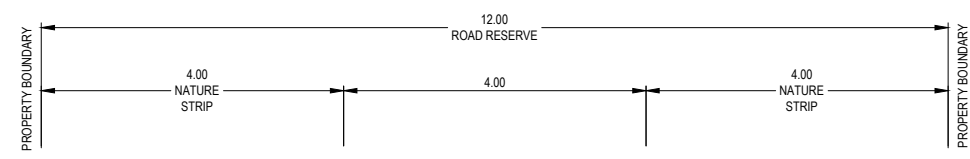
**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD**
 SENECIO PLACE CROSS SECTIONS (SHEET 1 OF 2)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD19

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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 36.51

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 28 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

REV	DES	DWG	CHK	DATE
F	RQ	MM	MM	21/12/20
E	RQ	MM	MM	27/11/20
D	RQ	MM	MM	13/11/20
C	RQ	MM	MM	13/10/20
B	RQ	JH	JG	06/08/20
A	RQ	JH	JG	27/07/20

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1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

estuary
 LEOPOLD

SCALE H 1:100 V 1:50
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 V 0.5 0 0.5 1 1.5 2 2.5

LENGTHS ARE IN METRES - PAPER SIZE A3

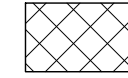
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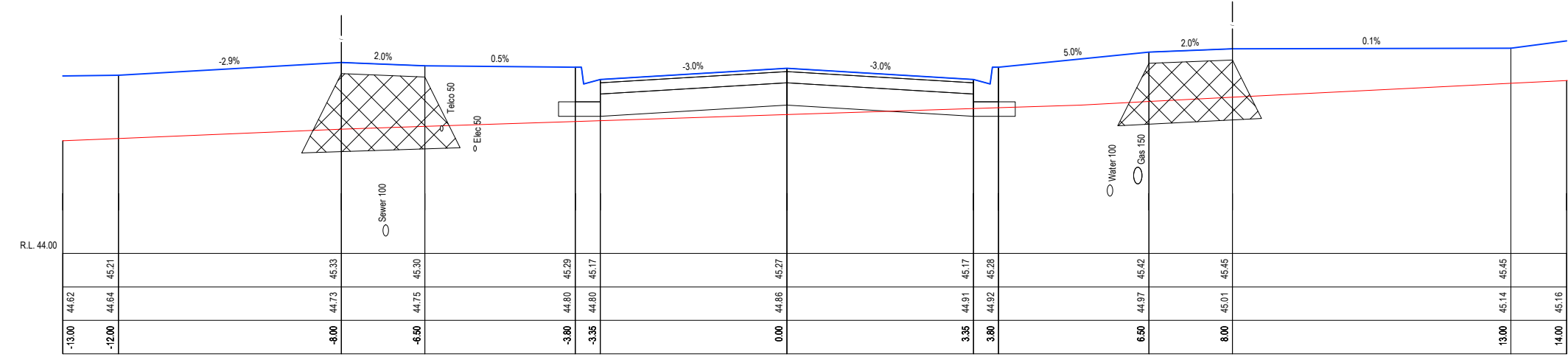
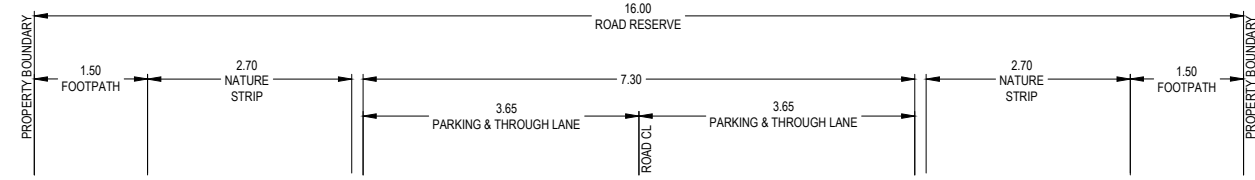
ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
SENECIO PLACE CROSS SECTIONS (SHEET 2 OF 2)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4014 RD19A REV: F

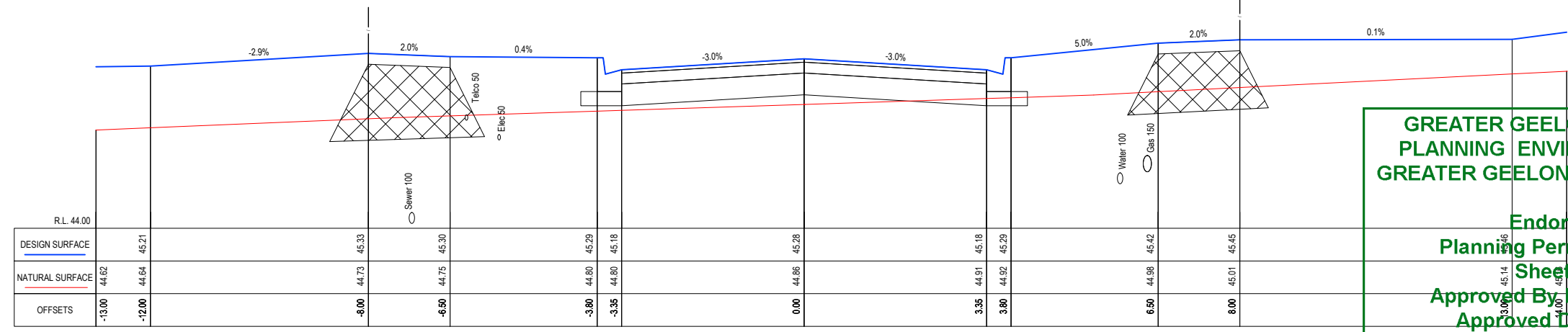
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GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 13.03 LTP (B2)



CH 12.89

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 29 of 39
 Approved By: Michael Feudloff
 Approved Date: 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	JG	06/08/20
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	27/07/20
A	ISSUED FOR TENDER	RQ	JG	27/07/20

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE H 1:100 V 1:50
 H 1 0 1 2 3 4 5 H
 V 0.5 0 0.5 1 1.5 2 2.5 V
 LENGTHS ARE IN METRES - PAPER SIZE A3

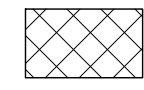
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 MARSUPIAL COURT CROSS SECTIONS (SHEET 1 OF 2)**

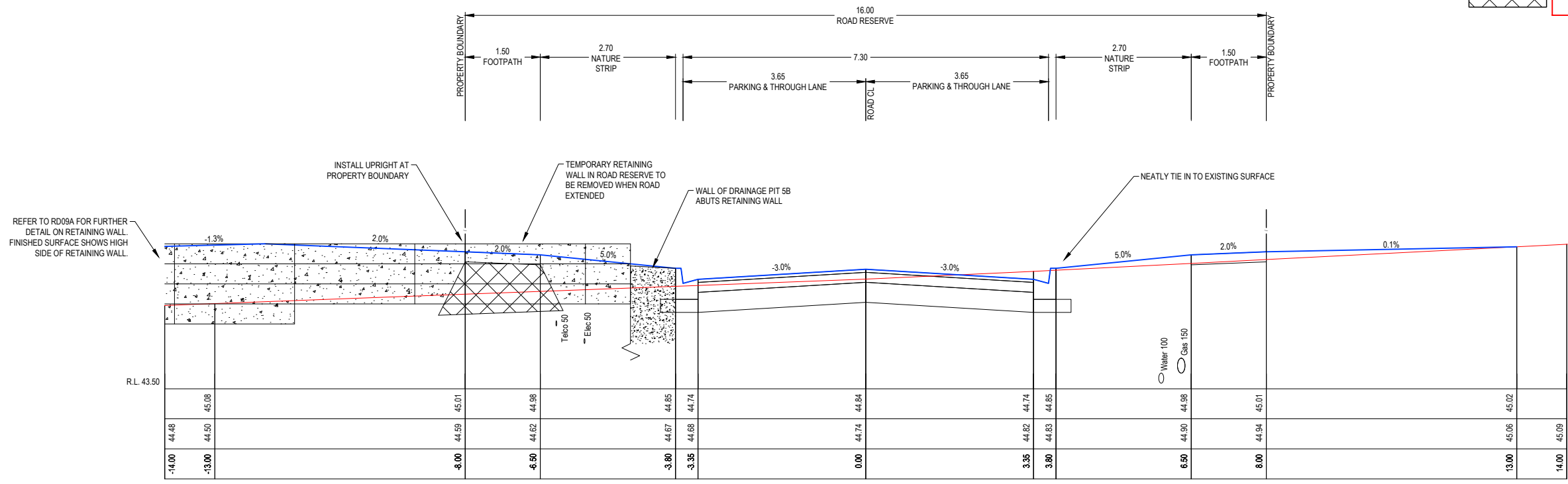
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD20 REV: F

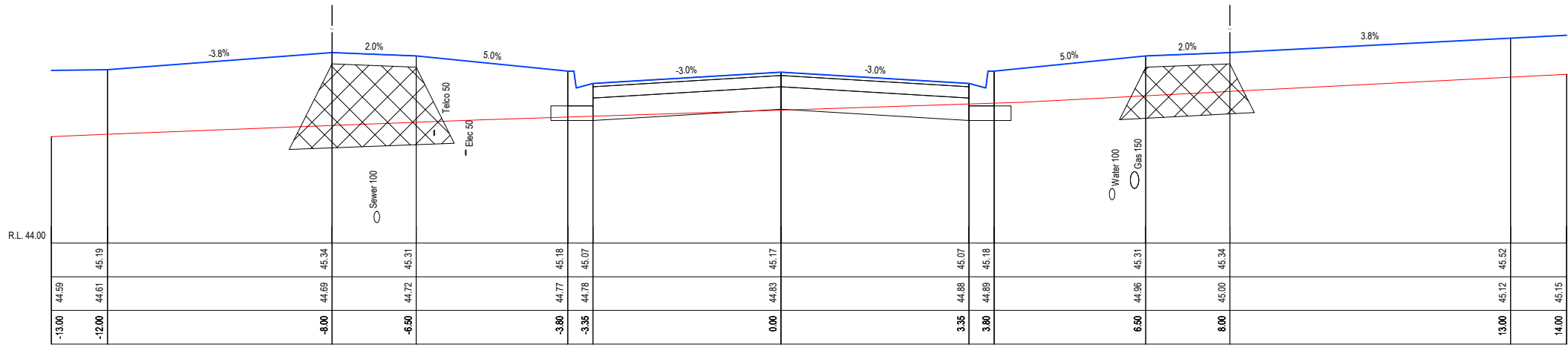
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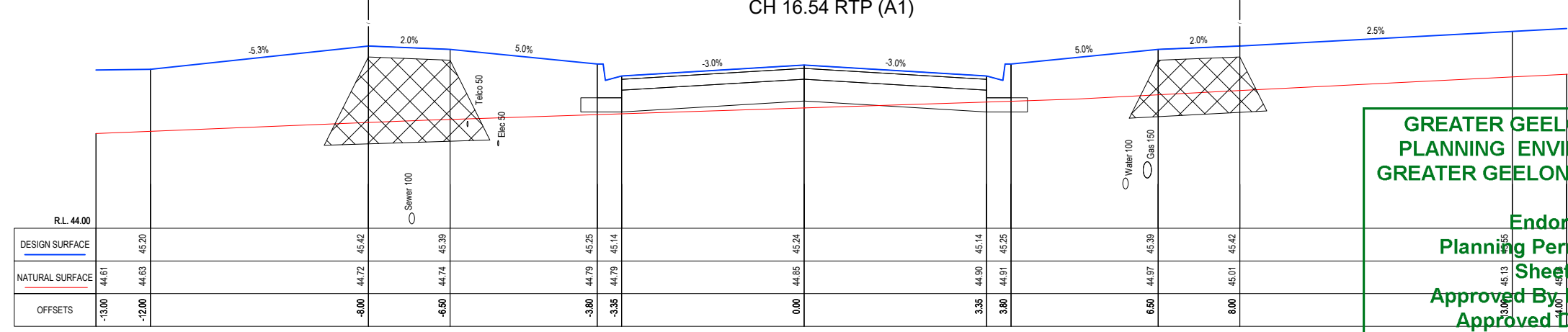
GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 27.75



CH 16.54 RTP (A1)



CH 14.03

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 30 of 39
 Approved By: Michael Feudloff
 Approved Date: 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	JG	06/08/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	27/07/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20

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SCALE H 1:100 V 1:50
 LENGTHS ARE IN METRES - PAPER SIZE A3

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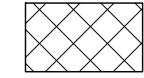
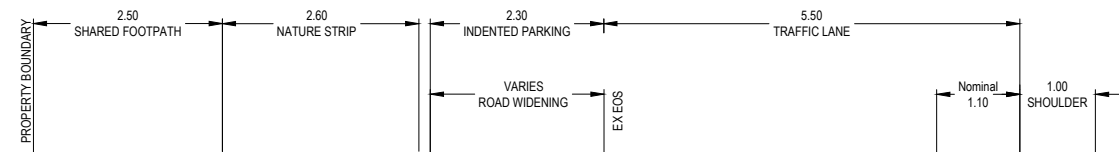
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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 MARSUPIAL COURT CROSS SECTIONS (SHEET 2 OF 2)**

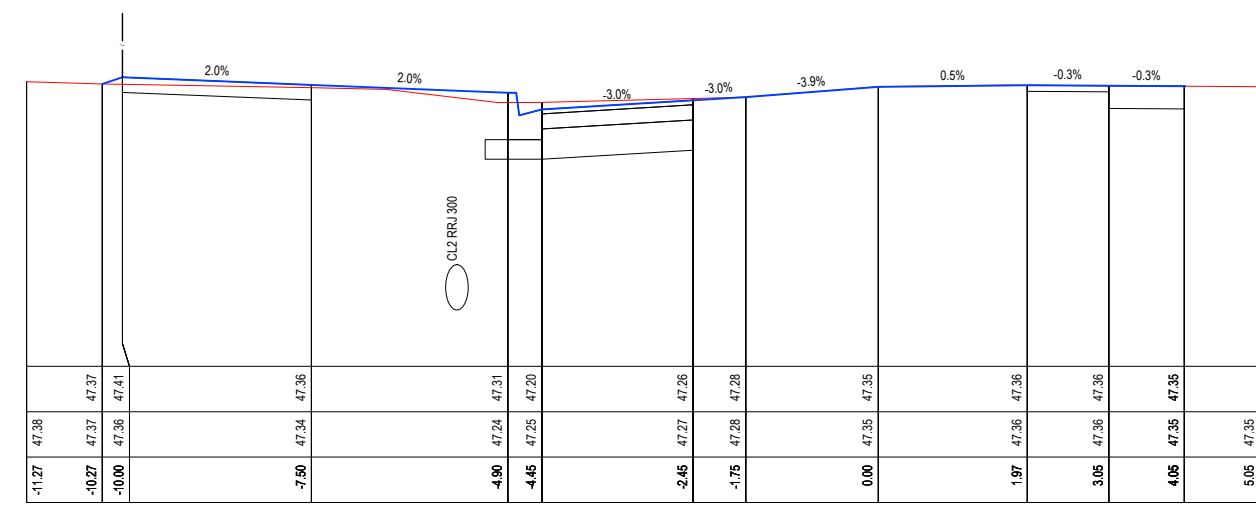
CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD20A REV: F

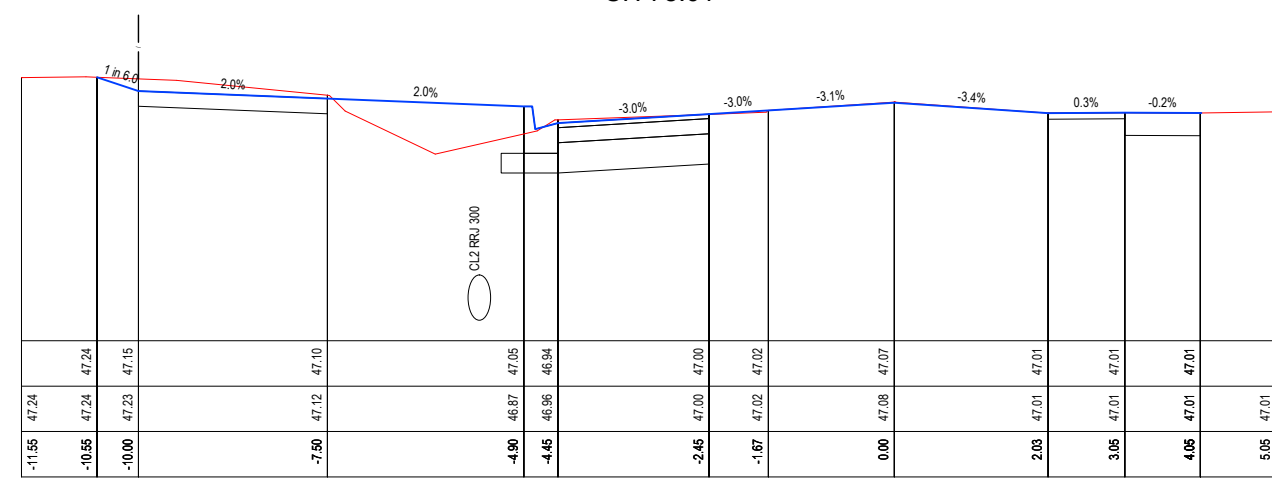
NOTE: THIS IS AN UNCONTROLLED DOCUMENT AND WILL NOT BE UPDATED. IT IS THE RESPONSIBILITY OF THE USER TO CONFIRM THAT THIS IS A CURRENT COPY AND SUITABLE FOR THE PROPOSED USE. THIS SHEET MUST BE READ IN CONJUNCTION WITH ALL SHEETS OF THIS SET AND ANY ACCOMPANYING DOCUMENTS. PLOT DATE: 21/12/2020 FILE: C:\IZID\DATA\TOMM66C\1285014404\1-ASH ROAD LEOPOLD C-VILLWOOD BENDIGO LEOPOLD_986ENGINEERING\CIVIL\CURRENT DESIGN\A4041 RD CTN PLANS REV.DWG



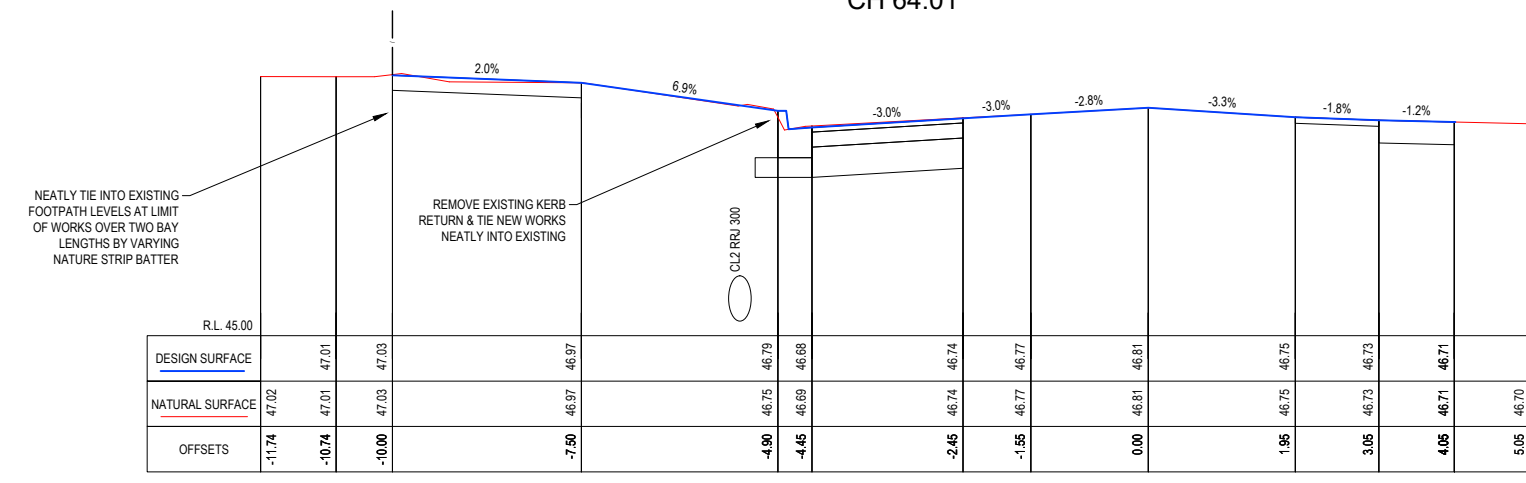
GENERAL DESIGN NOTES
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 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 78.01



CH 64.01



CH 50.00

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 31 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
 ABN 11 103 336 358 WWW.TOMKINSON.COM

SCALE 1:100
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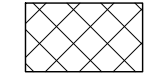
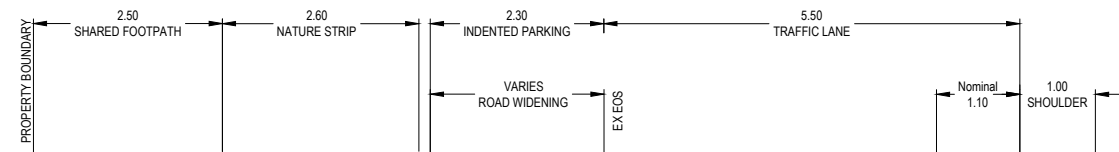
**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD
 ASH RD WIDENING CROSS SECTIONS (SHEET 1 OF 2)**

CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

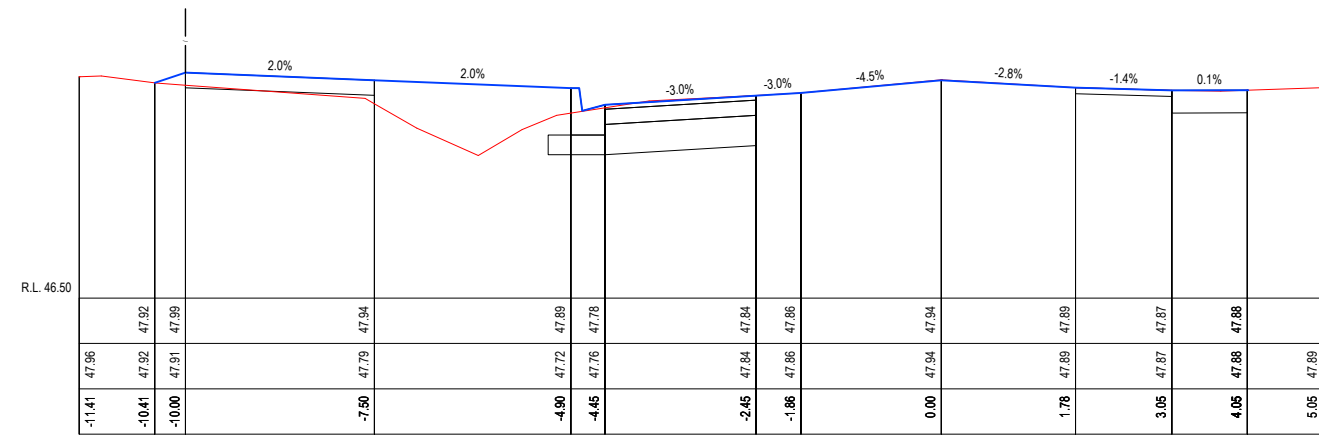
DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD21

REV: F

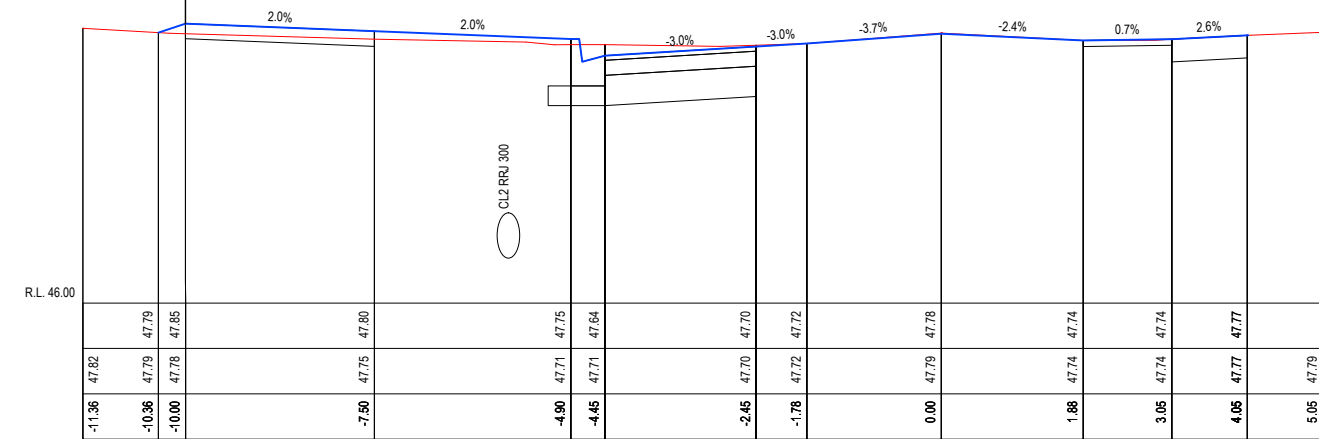
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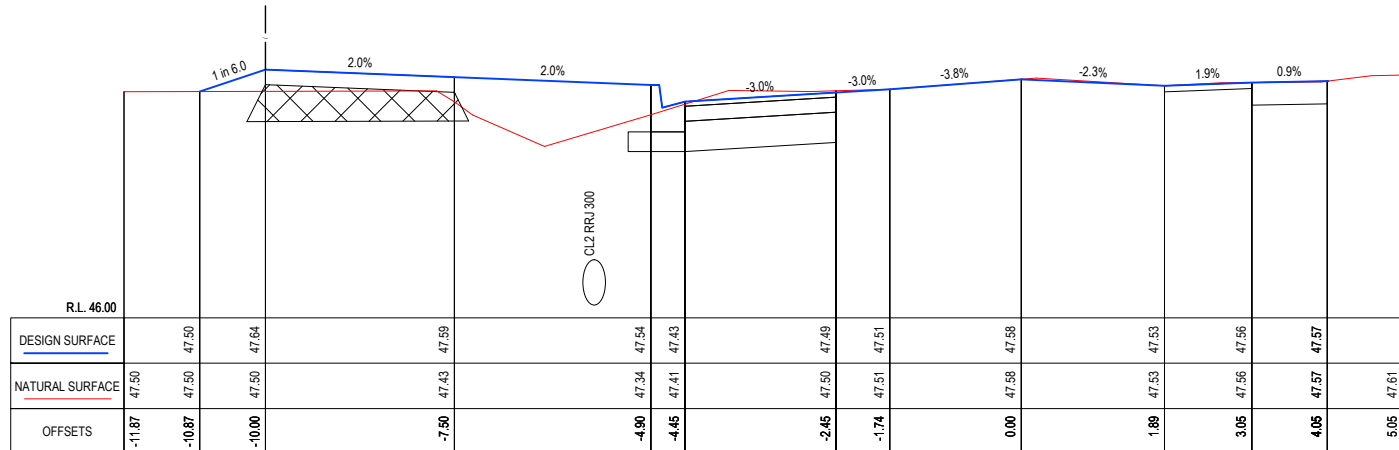
GENERAL DESIGN NOTES
 APPLIES IN ALL CASES UNLESS STATED OTHERWISE
 • SELECT FILL TO 200mm BELOW NATURAL SURFACE LEVEL WHERE FOOTPATH AND PAVEMENT IS CONSTRUCTED ON FILL



CH 116.16



CH 103.01



CH 90.51

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

**Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 32 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020**

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F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE

1/3 CLIFF STREET TORQUAY 3228 PH 03 5762 1934
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SCALE H 1:100 V 1:50
 H 1 2 3 4 5
 V 0.5 1 1.5 2 2.5
 LENGTHS ARE IN METRES - PAPER SIZE A3

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**ESTUARY II 132 & 134-144 ASH RD - S1
 LEOPOLD**

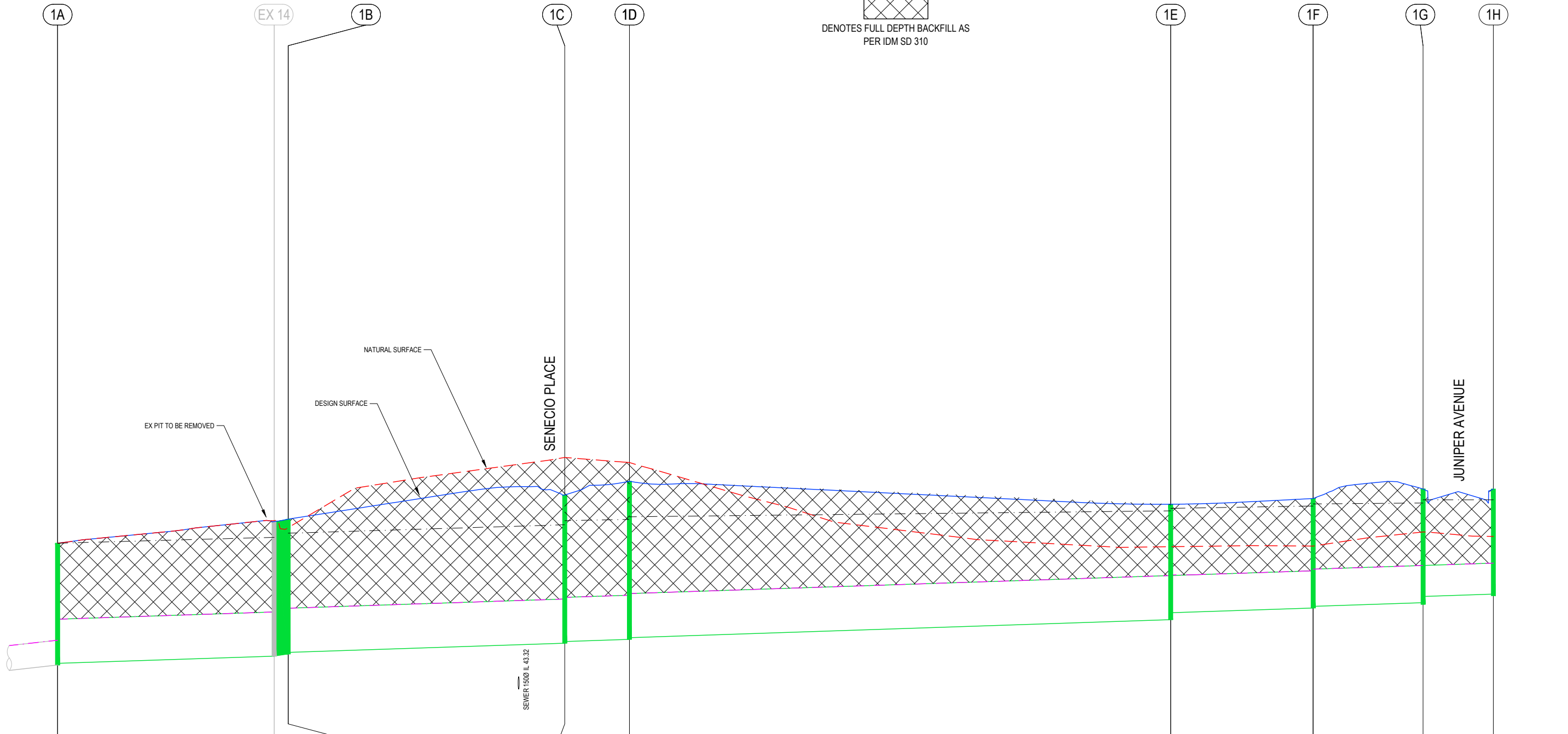
ASH RD WIDENING CROSS SECTIONS (SHEET 2 OF 2)

CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD22

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NOTE:

 DENOTES FULL DEPTH BACKFILL AS PER IDM SD 310



STATION	1A	EX 14	1B	1C	1D	1E	1F	1G	1H																									
H.G.L. AEP1%	44.17	45.08	44.25	45.16	44.27	45.21	44.28	45.22	44.30	45.26	44.41	45.32	44.43	45.37	44.46	45.38	44.48	45.41	44.69	45.49	44.70	45.53	44.75	45.55	44.77	45.59	44.80	45.62	44.82	45.62				
FLOW (l/s) AEP1%		299.8																																
H.G.L. AEP20%																																		
FLOW (l/s) AEP20%		141.3																																
CAPACITY (l/s)		313.0																																
PART VELOCITY (m/s)		1.2																																
PIPE DETAILS		5250 CL2 RRJ																																
PIPE GRADE (SLOPE)		1:300.3 (0.33%)																																
DATUM RL 39.0																																		
DEPTH TO INVERT	1.47	1.45	1.63	1.61	1.63	1.61	1.79	1.77	1.91	1.89	1.40	1.31	1.32	1.30	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	
INVERT LEVEL	43.61	43.63	43.72	43.74	43.74	43.77	43.88	43.90	43.92	43.94	44.16	44.24	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34	44.34
DESIGN SURFACE	45.08	45.35	45.35	45.38	45.38	45.67	45.67	45.83	45.83	45.83	45.56	45.56	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74	45.74
CHAINAGE	361.05	26.19	387.25	1.70	388.94	33.43	422.37	7.82	430.20	65.44	495.64		507.22	17.22	524.44	13.29	537.73	8.50	546.23	8.50	554.73	8.50	563.23	8.50	571.73	8.50	580.23	8.50	588.73	8.50	597.23	8.50	605.73	

GREATER GEELONG CITY COUNCIL
 PLANNING ENVIRONMENT ACT 1987
 GREATER GEELONG PLANNING SCHEME
 Endorsed Plan
 Planning Permit No: 602-2019
 Sheet 33 of 39
 Approved By Michael Feudloff
 Approved Date 23/12/2020
 NOTE: THIS IS NOT A BUILDING APPROVAL

REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
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A	ISSUED FOR TENDER	RQ	JH	27/07/20	

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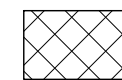


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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD DRAINAGE LONG SECTIONS (SHEET 1 OF 4)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
 DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD23
 REV: F

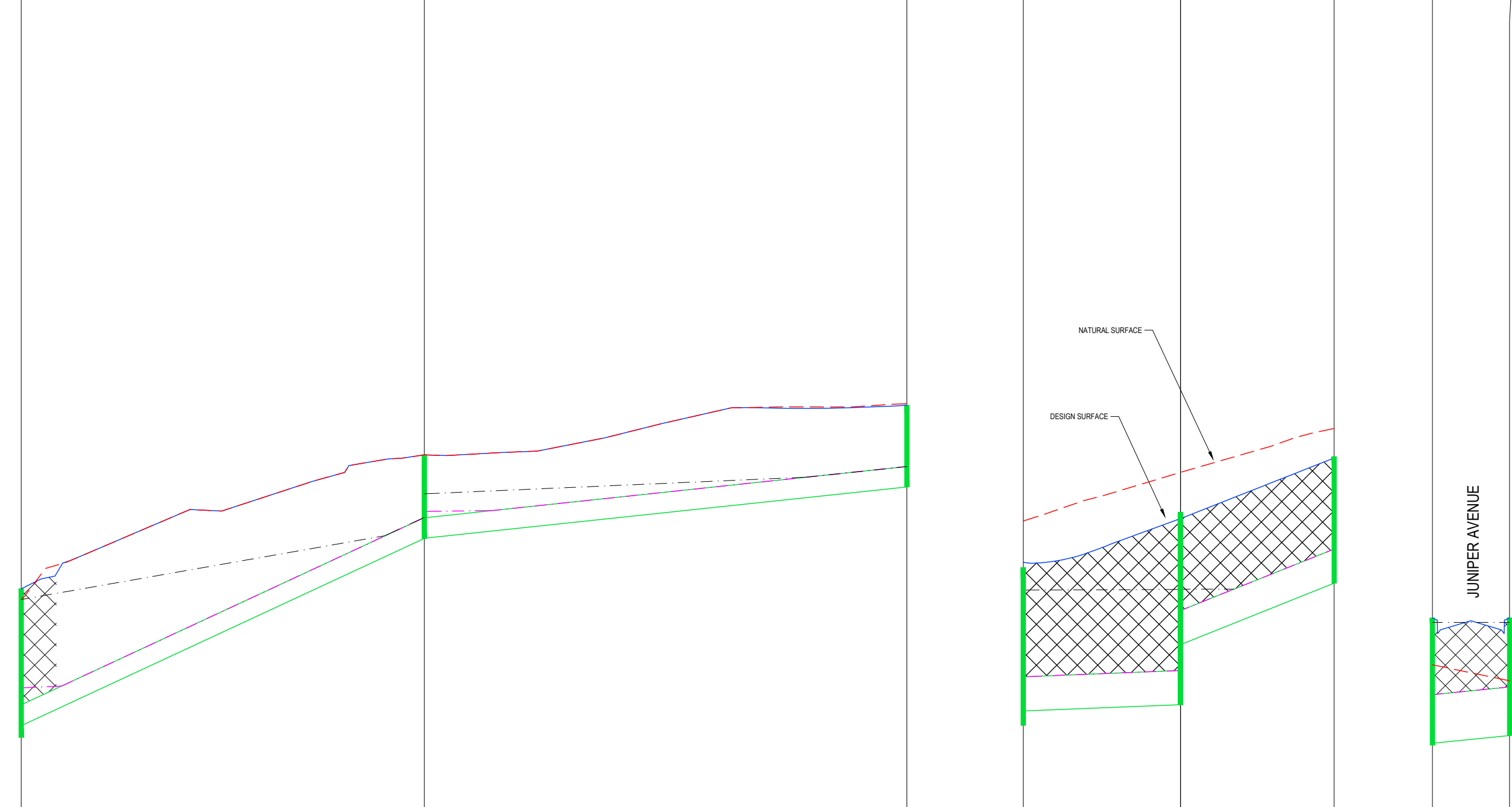
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 PLOT DATE: 21/12/2020 FILE: C:\IZID\DATA\TOMKINSON\128501\44041 - ASH ROAD LEOPOLD - CIVIL\ENGINEERING\CIVIL\CURRENT DESIGN\44041 - RD CTN PLANS REV.A.DWG

NOTE:



DENOTES FULL DEPTH BACKFILL AS PER IDM SD 310

1B 2A 2B 1C 3A 3B 1E 4A



H.G.L. AEP1%	44.29	46.14	46.72
FLOW (l/s) AEP1%	78.0		41.8
H.G.L. AEP20%		46.21	46.41
FLOW (l/s) AEP20%			20.8
CAPACITY (l/s)			60.9
PART VELOCITY (m/s)			1.1
PIPE DETAILS	2250 CL2 RRJ		2250 CL2 RRJ
PIPE GRADE (SLOPE)	1:21.7 (4.60%)		1:94.1 (1.06%)
DATUM RL 39.0			
DEPTH TO INVERT	1.50	0.94	0.90
INVERT LEVEL	43.87	45.91	46.49
DESIGN SURFACE	45.38	46.85	47.39
CHAINAGE	0.00	44.26	97.26

44.42	45.37	44.48	45.37	45.14	45.37
24.9				10.8	
12.3				5.4	
135.7				435.6	
0.7				1.2	
3750 CL2 RRJ				3750 CL2 RRJ	
1:250.0 (0.40%)				1:25.0 (4.00%)	
RL 41.5					
1.98		2.11	1.45		
44.04		44.10	44.76	45.44	45.81
45.61		46.22	44.76	45.44	45.81
0.00	17.26	17.26	16.88	3.95	8.47

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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 34 of 39**

**Approved By Michael Feudloff
Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE

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SCALE H 1:500 V 1:50

H 5 10 15 20 25 H
V 0.5 1 1.5 2 2.5 V

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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
DRAINAGE LONG SECTIONS (SHEET 2 OF 4)**

CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

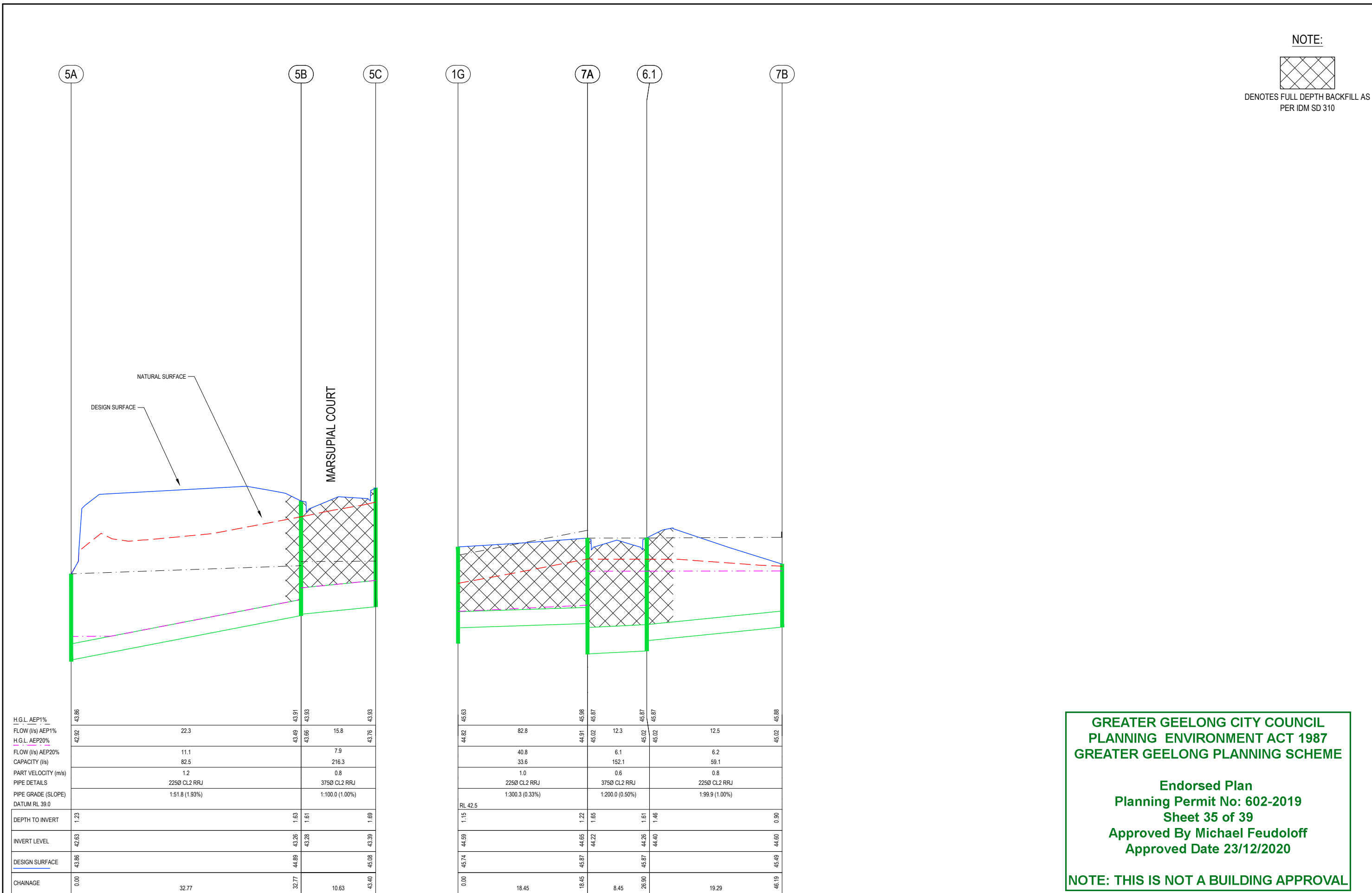
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NOTE:



DENOTES FULL DEPTH BACKFILL AS PER IDM SD 310



H.G.L. AEP1%	42.92	43.86		43.91	43.93	43.76	43.93
FLOW (l/s) AEP1%		22.3		15.8			
H.G.L. AEP20%							
FLOW (l/s) AEP20%		11.1		7.9			
CAPACITY (l/s)		82.5		216.3			
PART VELOCITY (m/s)		1.2		0.8			
PIPE DETAILS		2250 CL2 RRJ		3750 CL2 RRJ			
PIPE GRADE (SLOPE)		1:51.8 (1.93%)		1:100.0 (1.00%)			
DATUM RL 39.0							
DEPTH TO INVERT	1.23		1.63	1.61		1.69	
INVERT LEVEL	42.63	43.26	43.28	43.39		43.39	
DESIGN SURFACE	43.86	44.89	45.08	45.08		45.08	
CHAINAGE	0.00	32.77	10.63				

	44.62	45.63		44.91	45.98	45.02	45.87	45.02	45.87	45.02	45.88
	82.8		12.3							12.5	
	40.8		6.1							6.2	
	33.6		152.1							59.1	
	1.0		0.6							0.8	
	2250 CL2 RRJ		3750 CL2 RRJ							2250 CL2 RRJ	
	1:300.3 (0.33%)		1:200.0 (0.50%)							1:99.9 (1.00%)	
RL 42.5											
1.15			1.22		1.65		1.61		1.46		0.90
44.59		44.65	44.22		44.26		44.40		44.60		44.60
45.74		45.87	45.87		45.87		44.40		45.49		45.49
0.00		18.45	8.45		26.90		19.29		46.19		46.19

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

Endorsed Plan
Planning Permit No: 602-2019
Sheet 35 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE

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estuary
 LEOPOLD

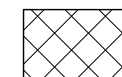
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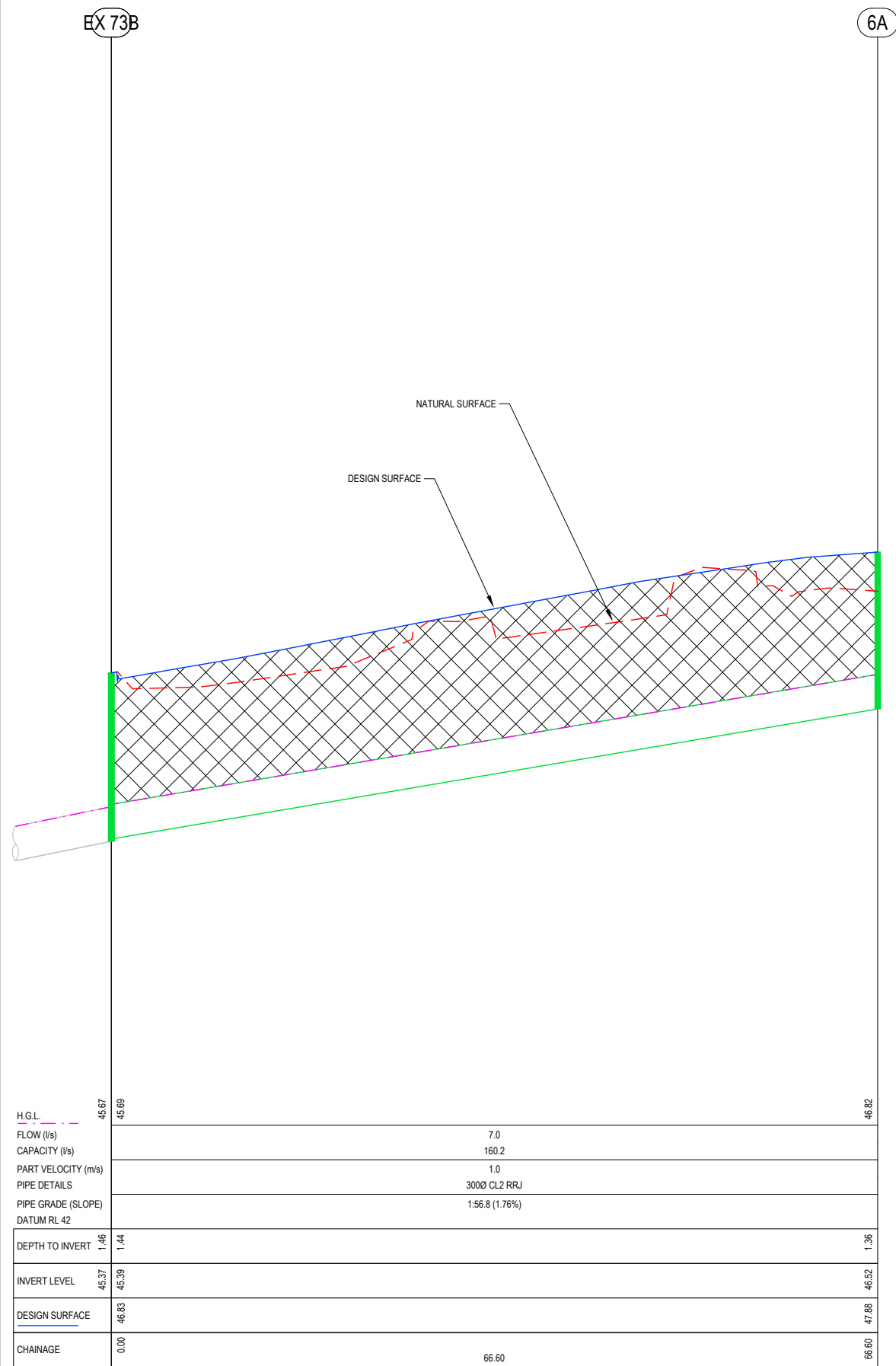
ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
DRAINAGE LONG SECTIONS (SHEET 3 OF 4)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
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NOTE:



DENOTES FULL DEPTH BACKFILL AS PER IDM SD 310



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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 36 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020**

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	06/08/20	
A	ISSUED FOR TENDER	RQ	JH	27/07/20	
REV	REVISION	DES	DWG	CHK	DATE

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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
DRAINAGE LONG SECTIONS (SHEET 4 OF 4)**

CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD26

REV: F

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Pit Schedule													
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Pit Lid Class	Comment
1A	GJP	750	900	300	43.612	525	43.632	1.472	45.085	278054.36	5768704.970	D	Haunched surcharge pit. Refer IDM SD420 & SD410 with grated lid. Grate to be bolted down
1B	SEP	900	2150	525	43.745	525	43.765	1.631	45.376	278057.40	5768733.435	D	Remove existing pit EX14, install new 900 x 2150 haunched SEP, reconnect existing 300Ø inlet & make good to Council's satisfaction. Refer IDM SD430 & SD410
						225	43.873						
						300	43.990						
1C	GJP	900	900	525	43.876	525	43.896	1.735	45.611	278061.83	5768766.438	D	Haunched pit. Refer IDM SD420 & SD410 with grated insert
						375	44.035						
1D	GJP	900	900	525	43.922	525	43.942	1.912	45.834	278057.19	5768772.738	D	Haunched pit. Refer IDM SD420 & SD410 with grated insert
1E	EKI	900	As Per Detail	525	44.160	525	44.180	1.396	45.556	277992.26	5768780.956	D	Extended Kerb Inlet refer A404 RD09 (right hand grate)
						450	44.244						
1F	SEP	600	900	450	44.301	450	44.321	1.323	45.624	277975.16	5768782.970	D	Refer IDM SD430
1G	SEP	600	600	450	44.366	375	44.441	1.374	45.740	277966.87	5768793.629	D	Refer IDM SD430
						225	44.587						
1H	SEP	600	900	375	44.469			1.272	45.741	277958.73	5768794.644	D	Refer IDM SD430
2A	GJP	600	600	225	45.911	225	45.931	0.935	46.846	278101.75	5768727.768	B	Refer IDM SD425 with grated insert
2B	GJP	600	600	225	46.494			0.898	47.392	278108.31	5768780.360	B	Refer IDM SD425 with grated insert
3A	GJP	900	900	375	44.104	375	44.763	2.113	46.217	278079.07	5768765.870	D	Haunched pit. Refer IDM SD425 & SD410 with grated insert
3B	GJP	600	900	375	45.438			1.389	46.827	278095.82	5768763.779	D	Refer IDM SD425 with grated insert
4A	EKI	As Per Detail	As Per Detail	525	44.265			1.293	45.557	277991.20	5768772.553	D	Extended Kerb Inlet refer A404 RD09 (left hand grate)
5A	GJP	600	600	225	42.609	225	42.629	1.248	43.856	277932.15	5768746.898	B	Refer IDM SD425 with grated insert
						225	42.609						
5B	SEP	900	900	225	43.261	375	43.281	1.633	44.894	277936.70	5768779.504	D	Haunched pit. Refer IDM SD410 & SD430
5C	SEP	900	900	375	43.387			1.694	45.081	277944.05	5768786.853	D	Haunched pit. Refer IDM SD410 & SD430
7A	SEP	600	900	225	44.648	375	44.216	1.217	45.866	277969.15	5768811.934	D	Refer IDM SD430 - modified to catch flows from swale
7B	SEP	900	900	375	44.258	225	44.404	1.610	45.868	277960.48	5768813.470	D	Haunched pit. Refer IDM SD410 & SD430
7C	GJP	600	600	225	44.597			0.897	45.494	27794.173	5768815.357	B	Refer IDM SD425 with grated insert
6A	SEP	600	900	300	46.558			1.347	47.905	27814.88	5768788.342	D	Refer IDM SD430
EX 73	SEP	600	900	300	45.370	300	45.39	1.460	46.830	278119.10	5768612.596	D	Break into existing SEP

SETOUT POINT
(CENTRE OF PIT)

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

**Endorsed Plan
Planning Permit No: 602-2019
Sheet 37 of 39**

**Approved By Michael Feudoloff
Approved Date 20/12/2020**

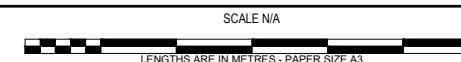
DRAINAGE PIT SETOUT POINT
NOT TO SCALE

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
C	AMENDED PER COUNCIL COMMENTS FOR FLP & AS SUBMITTED TO COUNCIL	RQ	MM	13/10/20	
B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20
REV	REVISION	DES	DWG	CHK	DATE



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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
DRAINAGE PIT SCHEDULE**
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD27

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SIGN SCHEDULE

SIGN	QTY	DESCRIPTION
D4-5	2	Obstruction Marker
D4-1-2a	1	Uni-Directional Hazard Marker
R1-2a	1	Give Way Sign
R5-35(L)	4	No Stopping Sign (Left)
R5-35(R)	4	No Stopping Sign (Right)
W4-3A	1	Road Narrows

STREET SIGN SCHEDULE

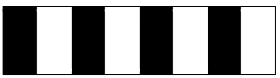
SIGN	QTY	DESCRIPTION
G5 Series	1	SENECIO PL
G5 Series	1	MARSUPIAL CT



D4-5 SIGN TO BE INSTALLED AT TEMPORARY END OF ROAD.

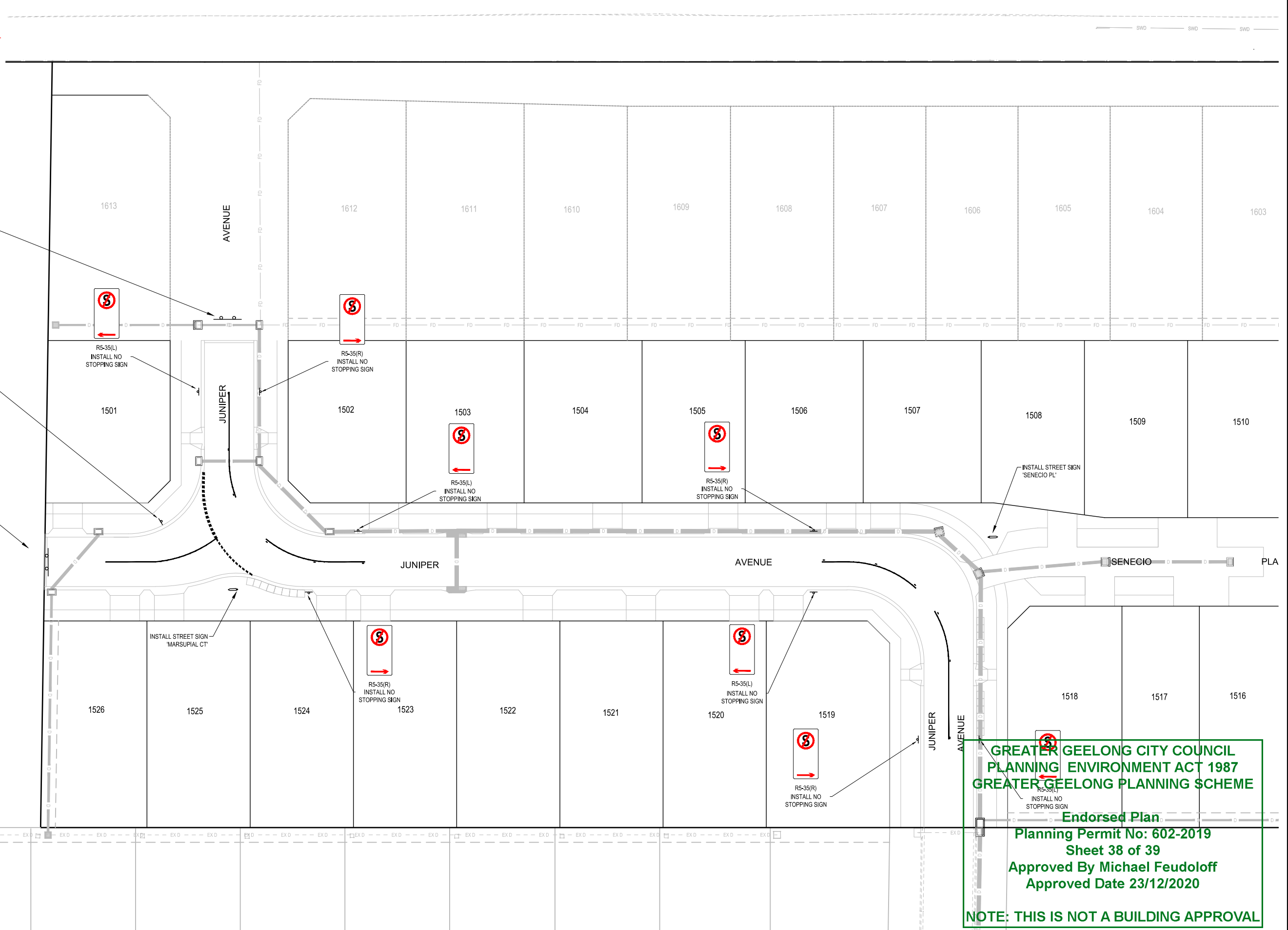


R1-2A
INSTALL GIVE-WAY SIGN



D4-5 SIGN TO BE INSTALLED AT TEMPORARY END OF ROAD.

MARSUPIAL
COURT



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

Endorsed Plan

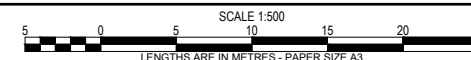
**Planning Permit No: 602-2019
Sheet 38 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020**

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REV	REVISION	DES	DWG	CHK	DATE
F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
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B	AMENDED TO INCLUDE ASH RD EAST WIDENING & RETAINING WALL DETAILS	RQ	JH	JG	06/08/20
A	ISSUED FOR TENDER	RQ	JH	JG	27/07/20



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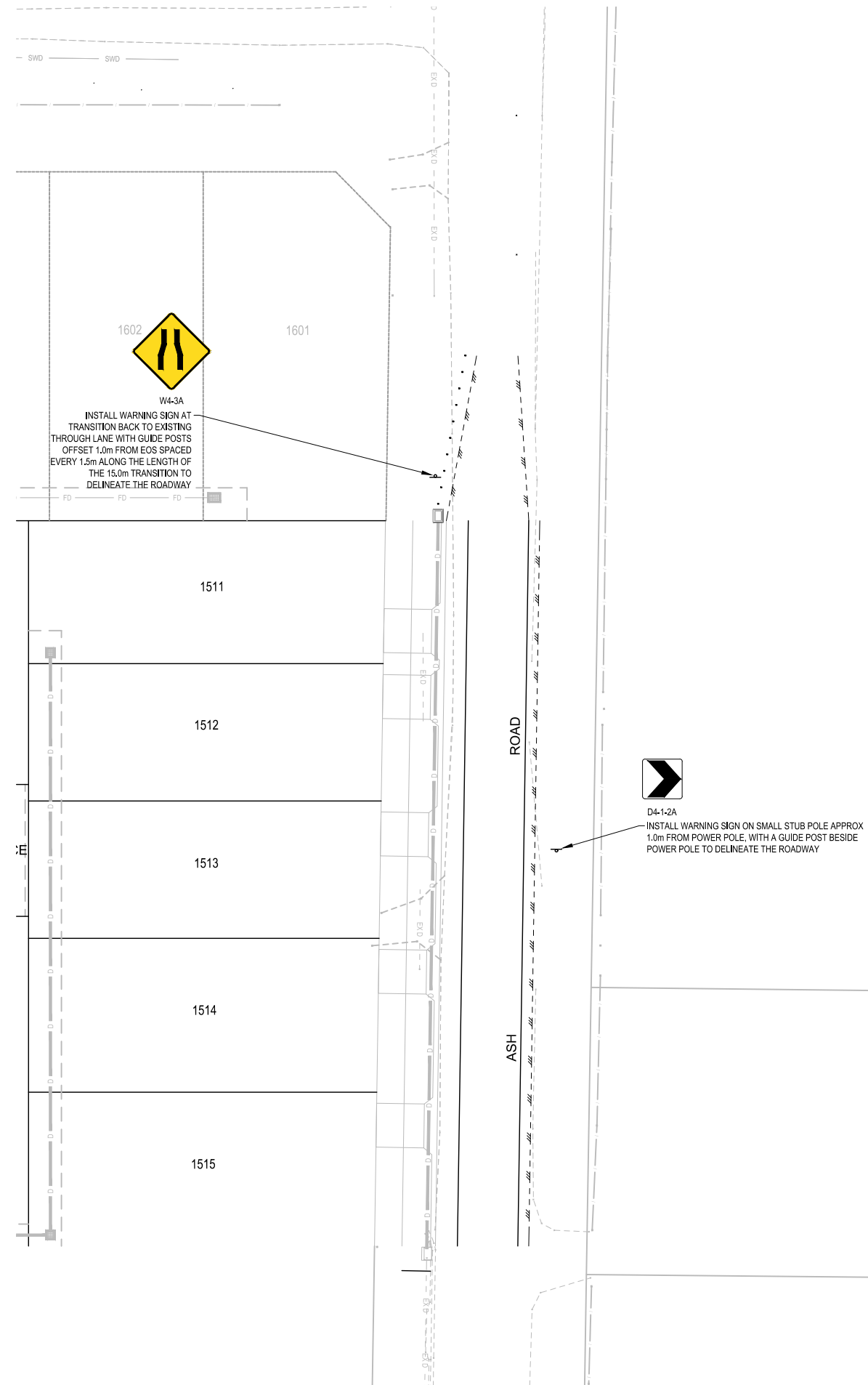
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**ESTUARY II 132 & 134-144 ASH RD - S1
LEOPOLD
SIGNAGE & LINEMARKING PLAN (SHEET 1 OF 2)**
CITY OF GREATER GEELONG PP-602-2019
ASH ROAD LEOPOLD PTY LTD

DWG STATUS: **PRELIMINARY** PROJECT & DWG No: A4041 RD28

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PLANNING ENVIRONMENT ACT 1987
GREATER GEELONG PLANNING SCHEME

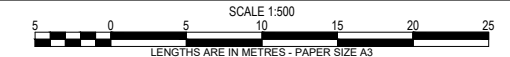
Endorsed Plan
Planning Permit No: 602-2019
Sheet 39 of 39
Approved By Michael Feudoloff
Approved Date 23/12/2020

NOTE: THIS IS NOT A BUILDING APPROVAL

F	ADD NOTE TO REF TO SGP PLANS & CoGG DESIGN NOTE 12, AMENDED PER COUNCIL COMMENTS	RQ	MM	21/12/20	
E	AMENDED PER COUNCIL COMMENTS	RQ	MM	27/11/20	
D	AMENDED PER COUNCIL COMMENTS	RQ	MM	13/11/20	
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REV	REVISION	DES	DWG	CHK	DATE




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ESTUARY II 132 & 134-144 ASH RD - S1 LEOPOLD
SIGNAGE & LINEMARKING PLAN (SHEET 2 OF 2)
 CITY OF GREATER GEELONG PP-602-2019
 ASH ROAD LEOPOLD PTY LTD
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 PLOT DATE: 21/12/2020 FILE: C:\TZ\DATA\TOMKINSON\LEOPOLD_988\ENGINEERING\CIVIL\CURRENT DESIGN\44041 - ASH ROAD LEOPOLD - 12850144041 - ASH ROAD LEOPOLD - 12850144041 - R/D CTN PLANS REV.A.DWG