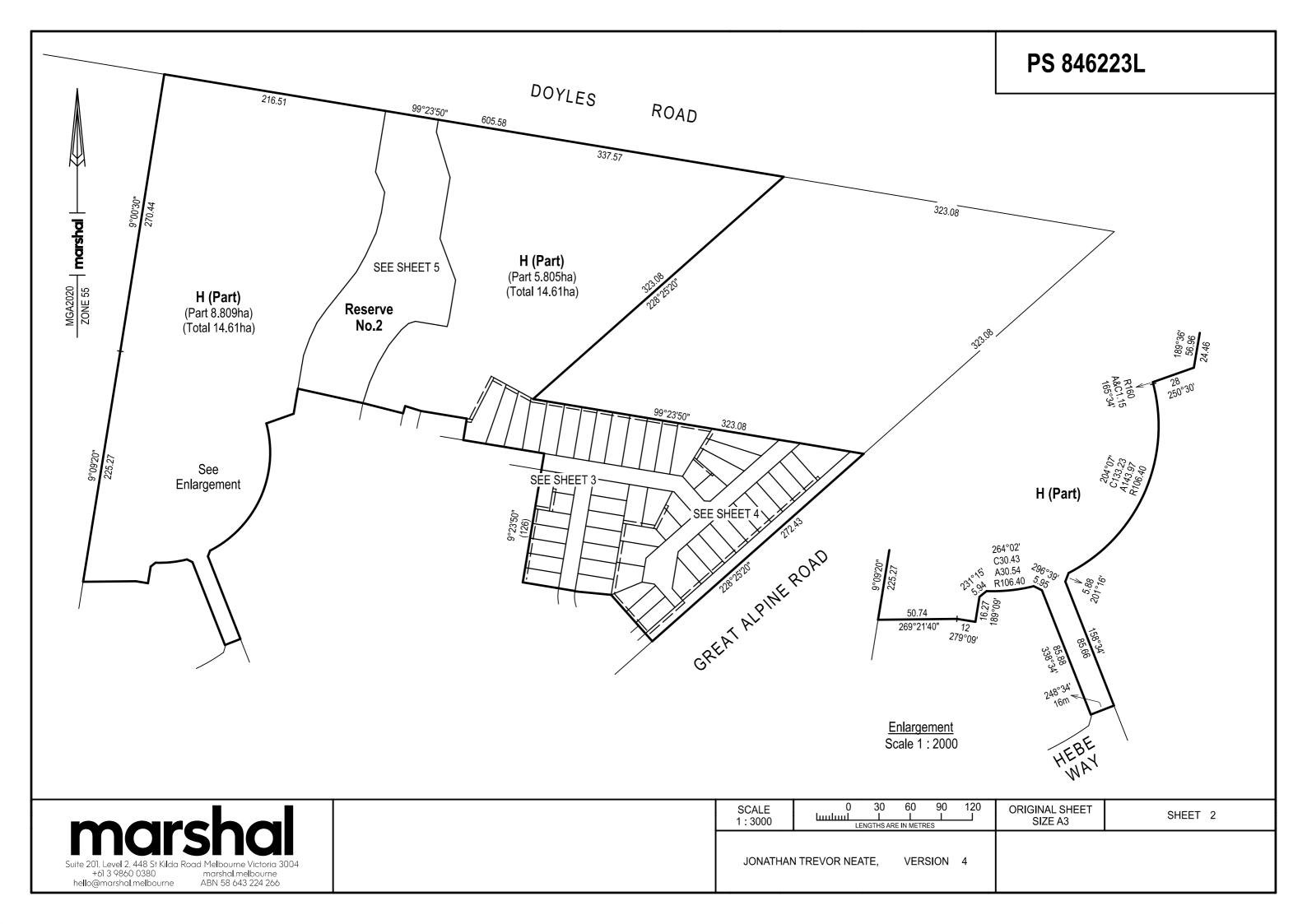
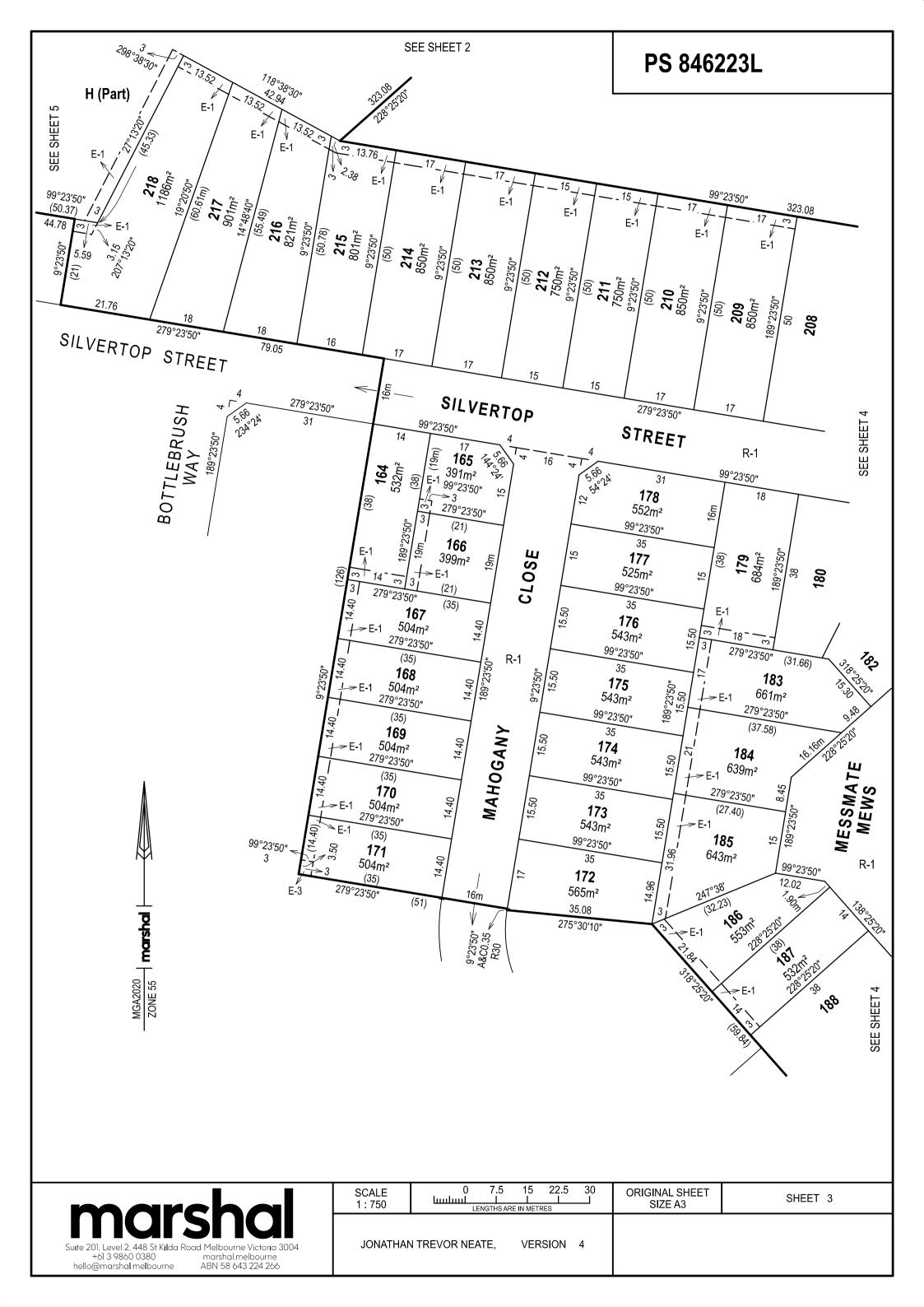
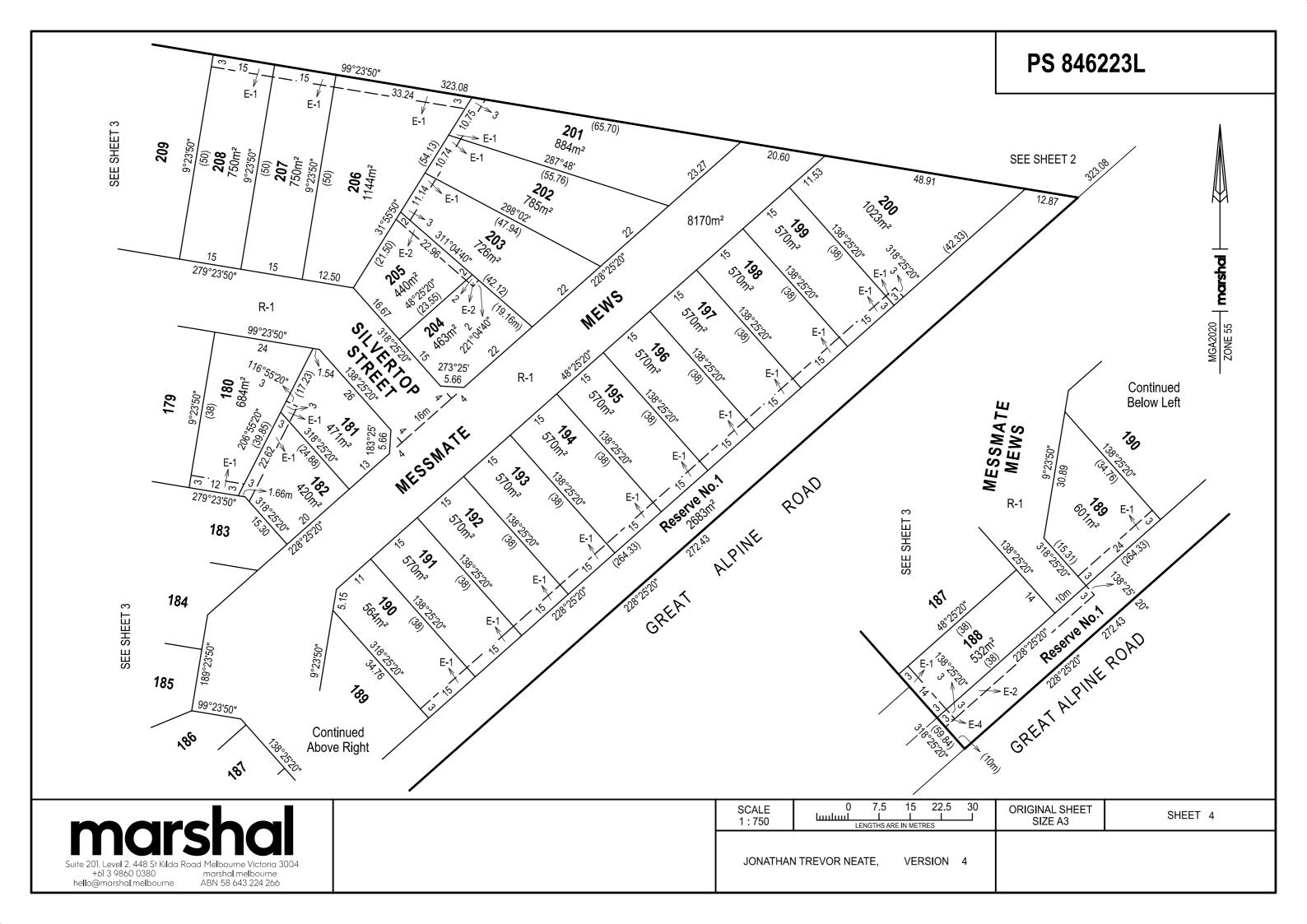


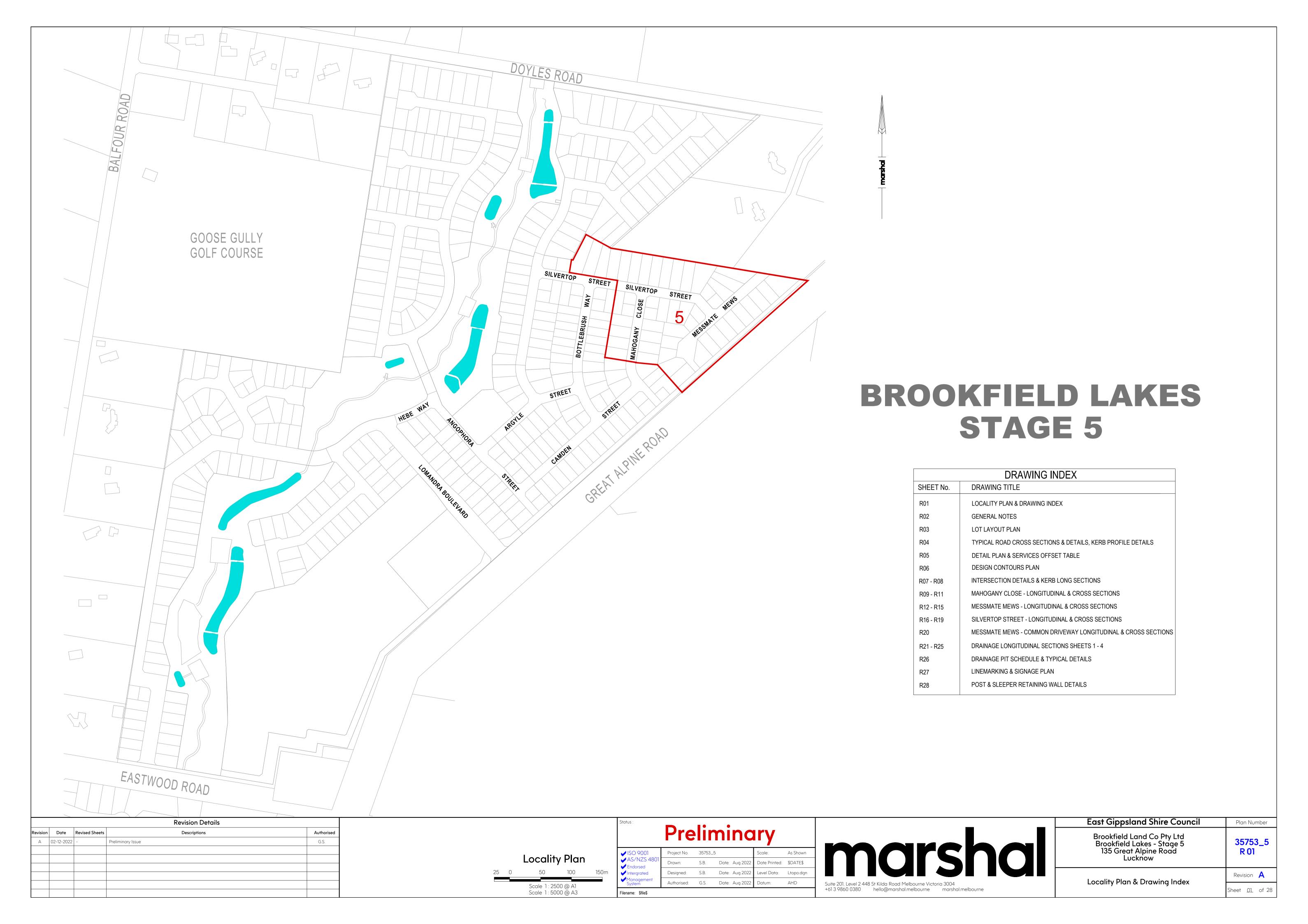
PS 846223L PLAN OF SUBDIVISION **EDITION** Council Name: East Gippsland Shire Council **Location of Land** Parish: Wy Yung Township: Lucknow Section: **Crown Allotment:** 40A1, 40B1, 46 & 47 (Parts) **Crown Portion:** Title Reference: Vol. Fol. Last Plan Reference: Lot G PS 846206L **Postal Address: Great Alpine Road** (at time of subdivision) Lucknow 3875 **MGA Co-ordinates:** E 557 630 Zone: 55 (of approx. centre of land **GDA 2020** N 5816000 in plan) Vesting of Roads and/or Reserves **NOTATIONS** Identifier Council/Body/Person Lots 1 to 163 (Both Inclusive) and A to G (Both Inclusive) have been omitted from this plan. Road R-1 East Gippsland Shire Council Other Purpose of Plan: The easement for Drainage purposes within Mahogany Close created in PS 846202U in favour of East East Gippsland Shire Council Reserve No.1 Gippsland Shire Council is removed by agreement (Subdivision Act 1988, Section 6(1)(k)) of all interested parties upon registration of this plan. Reserve No.2 East Gippsland Shire Council Other Purpose of Plan: The easement for Sewerage purposes within Mahogany Close created in PS 846202U in favour of East Gippsland Region Water Authority is removed by agreement (Subdivision Act 1988, Section 6(1)(k)) **NOTATIONS** of all interested parties upon registration of this plan. **Depth Limitation:** Does not apply. Other Purpose of Plan: The easement for Drainage purposes within Reserve No.1 created in PS 846202U in favour of East Gippsland Shire Council is removed by agreement (Subdivision Act 1988, Section 6(1)(k)) Survey: This plan is/is not based on survey. See BP2580G. of all interested parties upon registration of this plan. This survey has been connected to permanent marks No(s) Wy Yung PM12 & PM34 & Sarsfield PM 43. This plan is not in a Proclaimed Survey Area. **BROOKFIELD LAKES - BAIRNSDALE** Estate: **Development No.:** 5 No. of Lots: 55 Staging: This is/is not a staged subdivision Area: 6.680ha Planning Permit No. 547/2009/P/A **EASEMENT INFORMATION** LEGEND: A - Appurtenant Easement E - Encumbering Easement R - Encumbering Easement (Road) Easement Width Purpose Origin Land Benefited/In Favour Of Reference (Metres) E-1 Drainage See Diag. This Plan East Gippsland Shire Council E-1 & E-2 East Gippsland Region Water Authority See Diag. This Plan Sewerage See Diag. E-3 Drainage PS 846202U East Gippsland Shire Council East Gippsland Region Water Authority E-3 & E-4 Sewerage See Diag. PS 846202U ORIGINAL SHEET REF 35753/Stg.5 SHEET 1 OF 5 SHEETS mars SIZE A3 JONATHAN TREVOR NEATE, VERSION 4 +61 3 9860 0380 marshal.melbourne hello@marshal.melbourne ABN 58 643 224 266







PS 846223L SEE SHEET 2 DOYLES ROAD 99°23'50" 216.51 605.58 51.50 SEE SHEET 2 337.57 9°23′50" MGA2020 | marshal | H (Part) H (Part) Reserve No.2 2.060ha 279°23'50" 7 252°26′ 16/02 279°23′50″ SEE SHEET 3 (50.37)SEE SHEET 2 SILVERTOP STREET 79.05 279°23'50" 40 SCALE 1:1000 ORIGINAL SHEET SIZE A3 SHEET 5 JONATHAN TREVOR NEATE, VERSION 4 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne ABN 58 643 224 266



SITE SPECIFIC NOTES

- 1. ALL CONSTRUCTION TRAFFIC, STORAGE AND COMPOUNDS ARE TO BE LIMITED TO THE SITE OF WORKS. THE FUTURE STAGE AREA IS TO BE KEPT UNDISTURBED, EXCEPT FOR SPECIFIC WORKS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE SILTATION CONTROL DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- 3. ALL FILLING TO COMPLY WITH AS3798-2007, SECTION 8.1 & 8.2, LEVEL 1. A FILL REPORT MUST BE SUBMITTED FROM A NATA REGISTERED SOIL TESTING LABORATORY.
- 4. ALL SERVICES TRENCHES UNDER PAVEMENT WORKS ARE TO BE BACKFILLED WITH FCR AS SPECIFIED.
- ALL FENCES THAT REQUIRE REMOVAL FOR CONSTRUCTION ARE TO BE REPLACED TO A STANDARD EQUAL TO THE EXISTING CONDITION.
- 6. SUBSOIL PAVEMENT DRAINS ARE TO BE CONSTRUCTED BEHIND ALL KERB AND CHANNEL.
- 7. ALL DRAINAGE PIPES GREATER THAN 900mm TO BE F.J CLASS 2. (UNO)
- 8. ALL DRAINAGE LINES UNDER PAVEMENTS, PARKING BAYS, ETC AND WHERE TRENCH IS WITHIN 150mm OF BACK OF KERB ARE TO BE BACKFILLED WITH FCR AS SPECIFIED.
- 9. APPROPRIATE INSPECTIONS SHALL BE ORGANISED WITH EAST GIPPSLAND SHIRE COUNCIL WORKS SUPERVISOR.
- 10. REFER SEPARATE PLAN FOR WORKS ASSOCIATED WITH SEWER, WATER SUPPLY, ELECTRICITY SUPPLY, NBN AND GAS SUPPLY. THESE SERVICES ARE SHOWN ON THE DETAIL PLAN INDICATIVELY ONLY & MAY BE SUBJECT TO MINOR VARIATIONS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND BACKFILLING OF TRENCHING FOR RETICULATION ELECTRICITY AND COMMUNICATION CABLES, AND THE REMOVAL OF EXCESS SPOIL.
- 12. MINIMUM FALL ON ALL LOTS TO BE 1 IN 150 LONGITUDINALLY.
- 13. PAVEMENT DEPTHS MAY NEED TO BE MODIFIED DURING CONSTRUCTION DEPENDING ON THE ON-SITE CONDITIONS AS DIRECTED BY THE EAST GIPPSLAND SHIRE COUNCIL CONSTRUCTION ENGINEER OR WORKS SUPERVISOR.
- 14. USE OF ANY NON-DESCRIPT FILL MATERIAL IN ROAD SUBGRADE IS TO CONFORM TO SPECIFICATIONS.
- 15. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT EAST GIPPSLAND SHIRE COUNCIL SPECIFICATIONS AND STANDARD DRAWINGS, AND TO THE SATISFACTION OF EAST GIPPSLAND SHIRE COUNCIL ASSET MANAGER.
- 16. NO CUT OR FILL EXTENDS INTO BUILDING ENVELOPES, EXCEPT WHERE SHOWN.
- 17. THE CONTRACTOR SHALL CONTACT THE AUSNET SERVICES REPRESENTATIVE FOR THE CO-ORDINATION OF ELECTRICAL WORKS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF ELECTRICAL WORKS.
- 18. THE CONTRACTOR SHALL CONTACT THE NBN SERVICES REPRESENTATIVE FOR THE CO-ORDINATION OF NBN WORKS, AT LEAST 28 DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF NBN PIPE & PIT WORKS.
- 19. TELECOMMUNICATION AND ELECTRICITY CABLES ARE TO BE PLACED IN A SHARED TRENCH.
- 20. ALL BATTERS SHALL BE BLENDED INTO THE NATURAL GROUND LEVEL TO THE SATISFACTION OF THE ENGINEER, 0.3m BERM REQUIRED AT TOE OF BATTERS HIGHER THAN 0.7m.
- DRIVEWAYS ARE TO BE CUT ONTO ALL ALLOTMENTS, AT MAXIMUM GRADE OF 1 IN 5 WHERE BATTERS HIGHER THAN 0.70m. CUT BATTERS ARE TO BE GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, HAY, STRAW AND BITUMINOUS EMULSION.
- 22. INVERT LEVEL OF PROPERTY INLETS TO BE MINIMUM OF 500mm BELOW FINISHED SURFACE LEVELS. PROPERTY INLET GULLY BASINS ARE REQUIRED AT ALL PROPERT INLETS.
- 23. SIGNS, MARKINGS AND DELINEATORS TO BE INSTALLED ON ROADS AS APPLICABLE IN ACCORDANCE WITH AS1742.2. ALL LINE MARKING TO BE LONG LIFE ROAD MARKING, WITH LONGITUDINAL LINES IN THERMOPLASTIC AND TRANSVERSE MARKINGS IN COLD APPLIED.
- 24. STREET SIGNS ARE TO BE TO CURRENT EAST GIPPSLAND SHIRE COUNCIL STANDARD'S, INCLUDING PROVISION OF LOGO.
- 25. REFER TO DETAIL PLAN FOR PSM LOCATIONS.
- 26. CONDUIT LOCATIONS AND HOUSE DRAIN LOCATIONS ARE TO BE MARKED BY STAMP ON ALL PERMANENT CONCRETE WORKS IN ACCORDANCE WITH EAST GIPPSLAND SHIRE COUNCIL STANDARDS.
- 27. ALL PIT LIDS ARE TO BE TO CURRENT EAST GIPPSLAND SHIRE COUNCIL STANDARDS.
- 28. ALL VEHICLE CROSSINGS SHOWN ARE INDICATIVE ONLY. VEHICLE CROSSINGS ARE TO BE CONSTRUCTED AS PER VPA EDCM STANDARD DRAWINGS AND TO THE SATISFACTION OF THE EAST GIPPSDLAND SHIRE COUNCIL WORKS SUPERVISOR.
- 29. TACTILE PAVERS MUST BE INSTALLED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.4.1 'DESIGN FOR ACCESS AND MOBILITY,' FOR ALL PRAM CROSSINGS, BUS STOPS/HARD STANDS, ROUNDABOUTS/SIGNALS AND INTERSECTIONS (EDCM 403).
- 30. PEDESTRIAN CROSSINGS THROUGH ALL SPLITTER ISLAND TO BE AT PAVEMENT LEVEL.
- 31. ALL PIT FLOORS WITH LESS THAN 30mm DROP TO BE SHAPED TO ACCOMMODATE DROP THROUGH PITS. NO ALLOWANCE FOR TOLERANCE HAS BEEN MADE WITH THE IL'S PROVIDED. ALL PITS TO BE CONSTRUCTED TO EDCM STANDARDS.
- 32. WHERE ANY EXISTING DAMS, OPEN DRAINS OR CHANNELS ARE TO BE FILLED, INVERT LEVELS MUST BE TAKEN PRIOR TO COMMENCEMENT OF FILLING AND THE LEVELS SHOWN ON THE 'AS-CONSTRUCTED' PLANS
- 33. CONCRETE IS TO BE PLACED AROUND ELECTRICAL DISTRIBUTION PITS TO A MINIMUM DEPTH OF 200mm.
 DISTRIBUTION PITS ARE TO BE A MINIMUM 300mm FROM THE EDGE OF FOOTPATH.
- 34. FINISHED SURFACE LEVELS OF ALL LOTS ALONG THE SOUTH AND EAST BOUNDARIES OF THE SUBDIVISION MUST BE COMPATIBLE WITH THE EXISTING SURFACE LEVELS ON THE EXISTING LOTS OR PROPERTIES.
- 35. COUNCIL'S ASSETS MANAGER AND SENIOR TECHNICAL MANAGER (DEVELOPMENT) SHALL BE NOTIFIED IN WRITING SEVEN (7) DAYS PRIOR TO COMMENCING WORKS.

GENERAL NOTES

UNLESS NOTED OTHERWISE

- 1. ALL LEVELS AND DIMENSIONS ARE IN METRES (UNO).
- 2. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT STANDARDS, DRAWINGS AND SPECIFICATIONS OF THE RELEVANT MUNICIPAL AND STATUTORY AUTHORITIES (CURRENT AT THE TIME OF CONSTRUCTION), AND THE AUSTRALIAN STANDARD GENERAL CONDITIONS OF CONTRACT AS 2124-1992.
- 3. THE CONTRACTOR SHALL CHECK LOCATION AND DEPTH OF ALL EXISTING SERVICES, INCLUDING THOSE WHICH MAY HAVE BEEN ABANDONED, PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
- 4. FINAL LOCATION OF SERVICE CONDUITS, HOUSE DRAINS AND VEHICLE CROSSINGS SHALL BE DETERMINED ON-SITE BY THE ENGINEER WHERE REQUIRED. CONDUITS FOR GAS AND WATER ARE TO BE A MINIMUM OF 1.0 METRES CLEAR OF SIDE BOUNDARIES WHERE PRACTICAL. WATER SERVICE LOCATIONS TO BE DETERMINED IN CONJUNCTION WITH WATERMAIN SUBCONTRACTOR
- 5. THE WORKS ARE TO INCLUDE THE COMPLETE GRADING AND REINSTATEMENT OF DISTURBED AREAS, INCLUDING RESURFACING WITH 150mm MINIMUM DEPTH OF APPROVED TOPSOIL, SOWN TO THE SATISFACTION OF THE ENGINEER.
- 6. THE PLANS OF SUBDIVISION CERTIFIED BY COUNCIL ARE AN ANNEXURE TO THESE DRAWINGS.
- 7. ALL DRAINAGE PIPES WITHIN EASEMENTS ARE AT 1 METRE CENTRELINE OFFSET UNLESS NOTED OTHERWISE.
- 8. PERMISSION IS TO BE OBTAINED FROM THE WATER COMPANY FOR THE USE OF WATER SUPPLY FOR CONSTRUCTION PURPOSES.
- 9. IF IMPORTED FILL MATERIAL IS TO BE PLACED ON SITE CLEAN FILL CERTIFICATES MUST BE PROVIDED FROM A NATA APPROVED TESTING LABORATORY IN ACCORDANCE WTIH EPA BULLETIN PUBLICATION No. 448 TO DEMONSTRATE SUITABILITY FOR USE ON SITE.
- 10. THE 'SCHEDULE OF QUANTITIES' ARE AN ANNEXURE TO THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE 'SCHEDULE OF QUANTITIES' ACCURATELY REFLECTS THE INFORMATION DETAILED IN THESE PLANS. ALL DISCREPANCIES SHOULD BE REPORTED BACK TO THE ENGINEER PRIOR TO SIGNING OF CONTRACTS. NO ALLOWANCES WILL BE MADE FOR DISCREPANCIES ONCE CONTRACTS HAVE BEEN SIGNED.
- PRIOR TO COMMENCING WORKS ON SITE, THE CONTRACTOR MUST ADDRESS ALL OCCUPATIONAL HEALTH & SAFETY ACT (2004) ITEMS AND ENSURE THAT THE REQUIRED NOTIFICATIONS HAVE BEEN MADE TO THE VICTORIAN WORK COVER AUTHORITY, HEALTH & SAFETY DIVISION REGARDING TRENCHING OPERATIONS
- 12. THESE PLANS ARE FOR SUBDIVISION CONSTRUCTION PURPOSES ONLY
- 13. THESE PLANS MAY NOT BE REPRODUCED EXCEPT IN FULL, UNLESS BY COUNCIL.

FILLING NOTE

ALL FILLING ON THE SITE OVER 300mm MUST BE CARRIED OUT, SUPERVISED, COMPLETED AND RECORDED IN ACCORDANCE WITH AS 3798-2007, SECTION 8.1 & 8.2, LEVEL 1 (GUIDELINES ON EARTHWORKS FOR COMMERCIAL & RESIDENTIAL DEVELOPMENTS).

ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS) TO SPECIFICATIONS TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY.

SPECIFICATIONS TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY. THE GEOTECHNICAL AUTHORITY RESPONSIBLE FOR SUPERVISION AND TESTING UNDER THIS CONDITION MUST BE INDEPENDENTLY ENGAGED BY THE CONTRACTOR CARRYING OUT THE WORKS. BEFORE THE ISSUE OF A STATEMENT OF COMPLIANCE UNLESS OTHERWISE AGREED IN WRITING BY THE RESPONSIBLE AUTHORITY, COMPACTION TEST RESULTS AND A REPORT SHALL BE PROVIDED TO THE SATISFACTION OF THE RESPONIBLE AUTHORITY.

EAST GIPPSLAND SHIRE COUNCIL NOTES

- . CONSTRUCTION PLANS MUST BE ACCOMPANIED BY THE APPROVED SPECIFICATION. NO WORK IS TO COMMENCE WITHOUT EVIDENCE OF POSSESSION OF EACH.
- 2. ALL WORKS CARRIED OUT TO STANDARD OF DRAWINGS AND SPECIFICATION AS APPROVED BY EAST GIPPSLAND SHIRE COUNCIL AND TO THE SATISFACTION OF THE ENGINEER AND MUNICIPAL ENGINEER. IN CASE OF DISPUTE THE SPECIFICATION MUST TAKE PRECEDENCE.
- 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL EXISTING SERVICES AND TO CONTACT THE LOCAL SERVICE AUTHORITIES AS REQUIRED.
- 4. NO EXCAVATION WITHIN 5M OF ANY EXISTING TREE WITHOUT APPROVAL OF THE ENGINEER.
- 5. ALL CUT AREAS OUTSIDE ROAD RESERVES TO BE SURFACED WITH 100mm MIN. COMPACTED LAYER OF TOPSOIL.
- ALL DISTURBED ALLOTMENTS AND RESERVES TO BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE
- 7. ALL HOUSE DRAINS SHOULD BE GENERALLY FLAT AT A GRADE OF 1:100 AND IN ACCORDANCE WITH EAST GIPPSLAND SHIRE COUNCIL STANDARDS.
- PRIOR TO COMMENCING ANY WORKS ON TRENCHES WITH DEPTHS EXCEEDING 1.5m, THE CONTRACTOR'S CONSTRUCTION SUPERVISOR MUST GIVE WRITTEN NOTICE TO WORKSAFE VICTORIA IN ACCORDANCW WITH PART 5.1, DIVISION 4 OF THE OCCUPATIONAL HEALTH & SAFETY REGULATIONS (2007) & UNDERTAKE THE NECESSARY SAFETY PRECUATIONS FOR TRENCHING OPERATIONS IN ACCORDANCE WITH THE WORKCOVER CODE OF PRACTICE (1988).
- 9. CONCRETE STRENGTH TO HAVE 28 DAY STRENGTH OF 25 MPA (UNO).
- 10. THE CONTRACTOR IS TO SUPPLY AND ERECT THE RELEVANT STREET SIGNAGE.
- 11. KERB TYPES HAVE BEEN SPECIFIED. TRANSITIONS BETWEEN DIFFERENT TYPES TO BE OVER 3.0m IF IT CANNOT BE ACHIEVED AT A PRAM CROSSING OR DRIVEWAY CROSSOVER (UNO).
- 12. ROAD OPENING PERMIT TO BE OBTAINED FOR CROSSING EXISTING PAVEMENTS AS REQUIRED
- 13. ALL FOOTPATHS TO BE 1.5m WIDE (UNO).
- 14. ALL FOOTPATHS, SHARED PATHS & VEHICLE CROSSOVERS ARE TO BE 125mm THICK REINFORCED CONCRETE WITH SL72 MESH.
- 15. THE CONTRACTOR SHALL, TO THE SATISFACTION OF THE ENGINEER AND THE MUNICIPAL ENGINEER, PROVIDE AND MAINTAIN ALL NECESSARY WARNING SIGNAGE, LIGHTING AND BARRICADING TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS ACT.
- 16. IF ANY EXISTING SUBSTANDARD FILLING IS ENCOUNTERED ON THE SITE IT MUST BE REMOVED AND REPLACED WITH APPROVED FILL MATERIAL PROPERLY COMPACTED TO COUNCIL REQUIREMENTS. A GEOTECHNICAL REPORT MUST BE SUBMITTED SHOWING DETAILS OF DEPTH, TYPE OF MATERIAL AND DENSITY OF THE FILL AREAS CONCERNED.
- 17. AN ENVIRONMENTAL MANAGEMENT PLAN (EMP), TRAFFIC MANAGEMENT PLAN (TMP) AND SITE MANAGEMENT PLAN (SMP) MUST BE PREPARED BY THE CONTRACTORS AND SUBMITTED TO COUNCIL FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY ON-SITE WORKS AND ALL WORKS MUST BE CARRIED OUT IN STRICT ACCORDANCE WITH THESE PLANS.
- REMOVAL OR RETENTION OF EXISTING TREES OR VEGETATION MUST BE IN ACCORDNACE WITH THE APPROVED LANDSCAPING PLANS (OTHERWISE APPROVAL WILL BE REQUIRED FROM THE LANDSCAPE APPROVALS OFFICER).
- 19. NO SURPLUS TREES, VEGETATION OR OTHER MATERIALS TO BE BURNT ON SITE.
- 20. APPROVED FIBREGLASS TYPE PIT LIDS ARE REQUIRED FOR ALL DRAINAGE PITS. ALL GRATES FOR DRAINAGE PITS ARE TO BE 'CLASS D' TO COMPLY WITH AS 3996.
- 21. PITS DEEPER THAN 2.5m REQUIRE EITHER GATIC OR LOCKING APPROVED FIBRE GLASS TYPE PIT LIDS. PLEASE CHECK THE PIT SCHEDULE (DEPTH TO INVERT COLUMN).
- 22. APPROPRIATE SILTATION CONTROL IS TO BE CARRIED OUT DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.
- 23. CUT BATTERS ARE TO GRASSED AND MULCHED WITH A MIXTURE OF CHOPPED GRASS, STRAW AND BITUMEN EMULSION.
- 24. AS CONSTRUCTED PLANS AND ELECTRONIC ASSET INFORMATION MUST BE SUBMITTED TO COUNCIL PRIOR TO PRACTICAL COMPLETION.
- 25. STREET LIGHTING MUST BE PROVIDED ON ALL NEWLY CREATED ROADS AND RESERVES INCLUDING ALL INTERSECTIONS, SPEED HUMPS AND LTM DEVICES IN ACCORDANCE WITH THE APPROVED PUBLIC LIGHTING PLAN.
- 26. HEAVY DUTY VEHICLE CROSSING (EDCM 503) TO BE PROVIDED FOR LOTS IN ADJACENT TO TEMPORARY CRUSHED ROCK TURN AROUND AREAS ON 'DEAD END ROADS'.

Revision Details								
evision	Date	Revised Sheets	Descriptions	Authorised				
А	02-12-2022	-	Preliminary Issue	G.S.				

Preliminary

✓ISO 9001 Project No. 35753_5 Scale:

✓ISO 9001
✓AS/NZS 4801
✓Endorsed
✓Intergrated
✓Management
System

Project No. 35753_5

Scale:

Date: Aug 2022

Date Printed: \$DATE\$

Designed: S.B. Date: Aug 2022

Level Data: Ltopo.dgn

Authorised: G.S. Date: Aug 2022

Datum: AHD



Brookfield Land Co Pty Ltd
Brookfield Lakes- Stage 5
135 Great Alpine Road
Lucknow

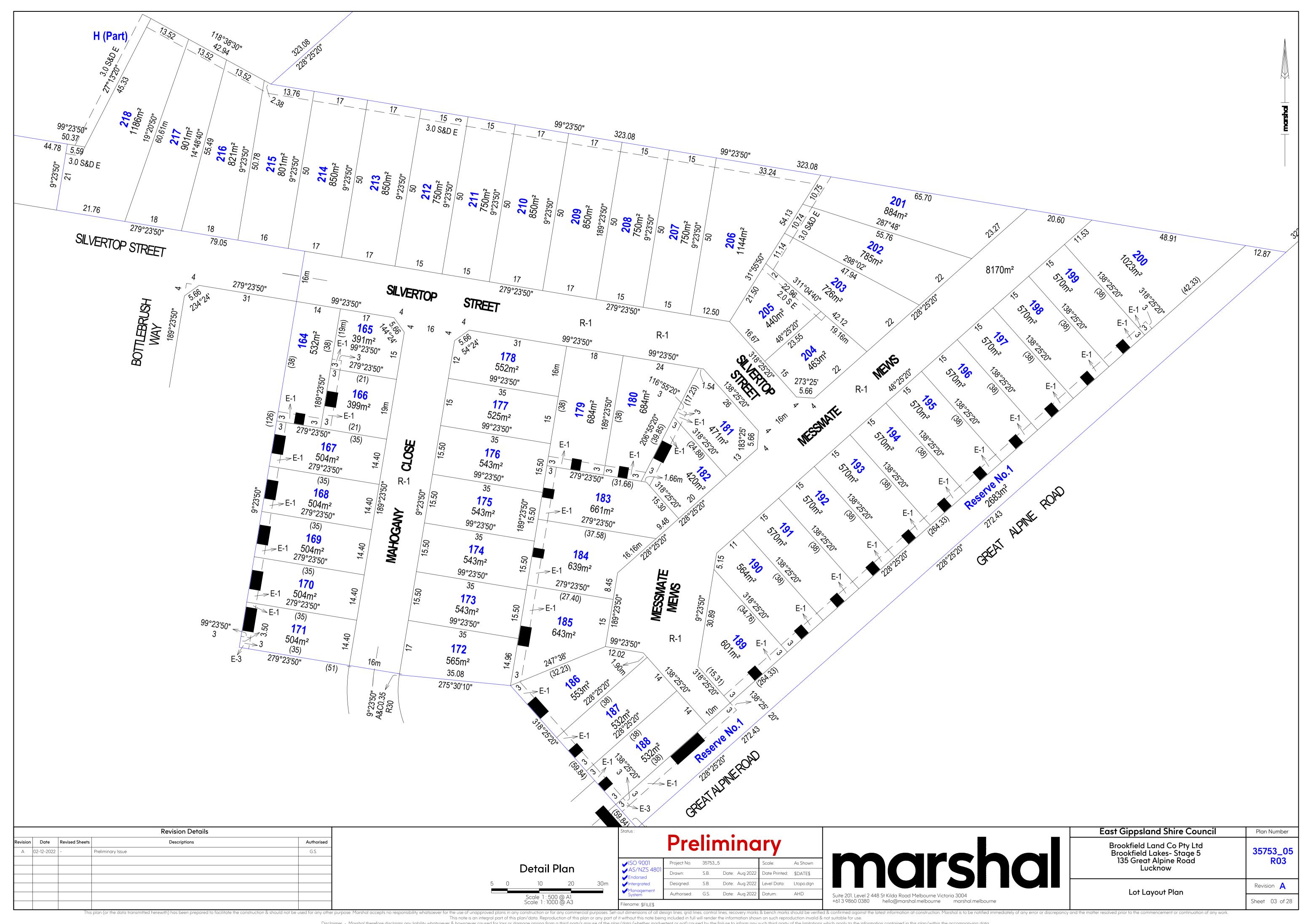
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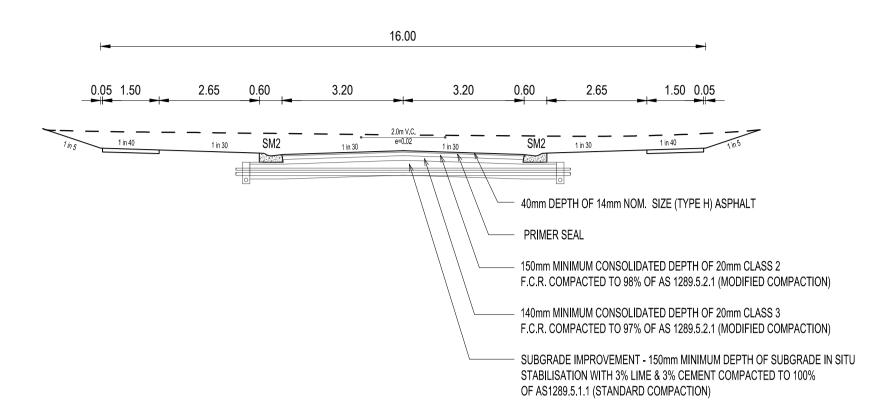
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General Notes

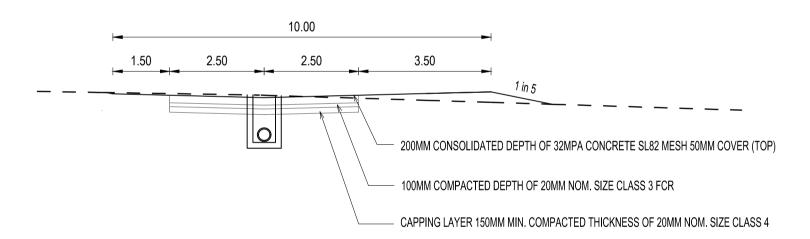
Revision A

Sheet 02 of 28

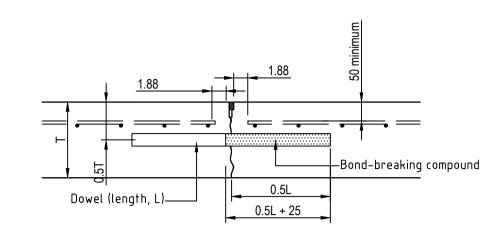




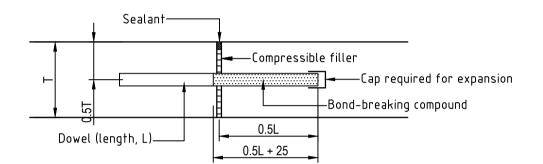
SILVERTOP STREET, MAHOGANY CLOSE, AND MESSMATE MEWS



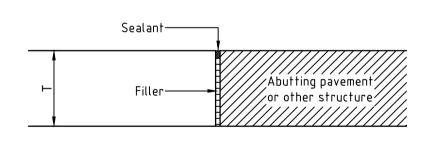
COMMON DRIVEWAY (MESSMATE MEWS)
(REFER RIGHT FOR JOINTING DETAILS)



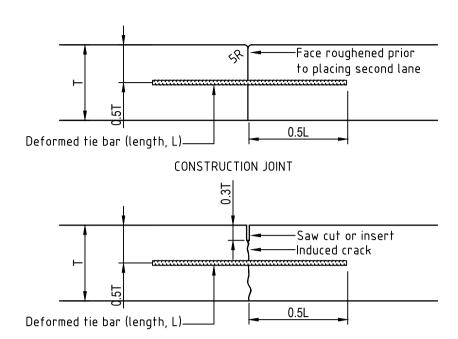
TRANSVERSE CONTRACTION JOINT (TJ)



EXPANSION JOINT (EJ)

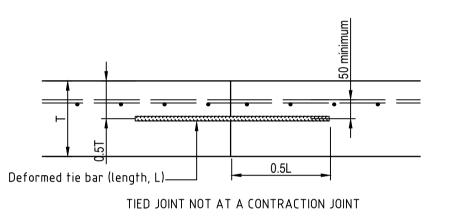


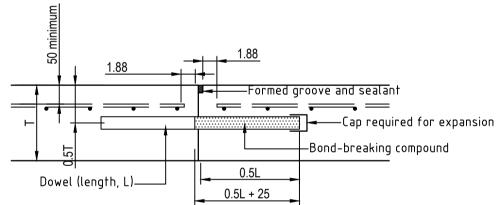
ISOLATION JOINT (IJ)



WEAKENED-PLANE JOINT - MULTI LANE PAVING

LONGITUDINAL WARPING JOINTS (LJ)





DOWELLED BUTT JOINT AT A CONTRACTION JOINT

TRANSVERSE CONSTRUCTION JOINTS

Revision Details								
vision Date Revised Sheets Descriptions								
02-12-2022	-	Preliminary Issue	D.K.					
		00.70.0000	Date Revised Sheets Descriptions					

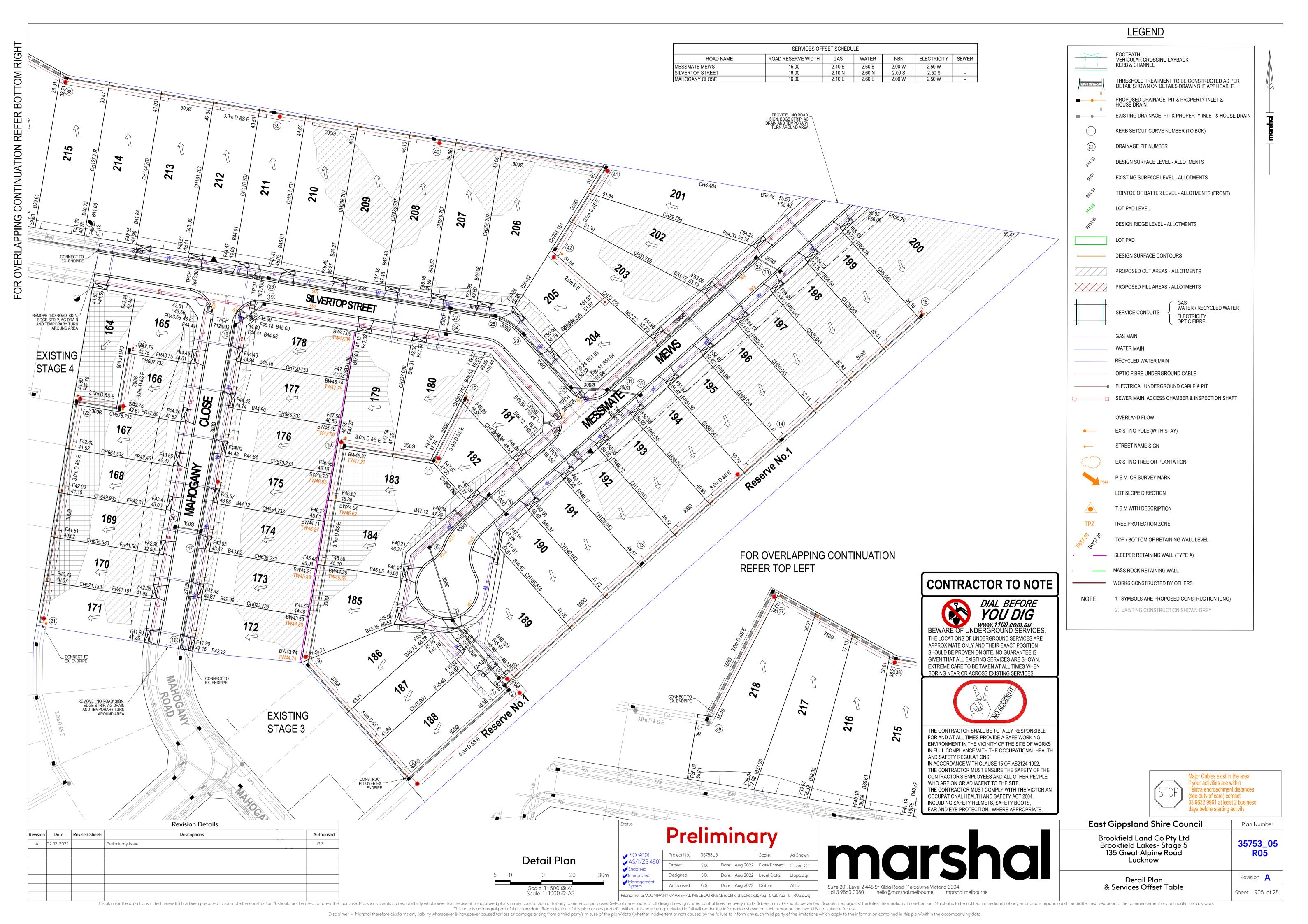


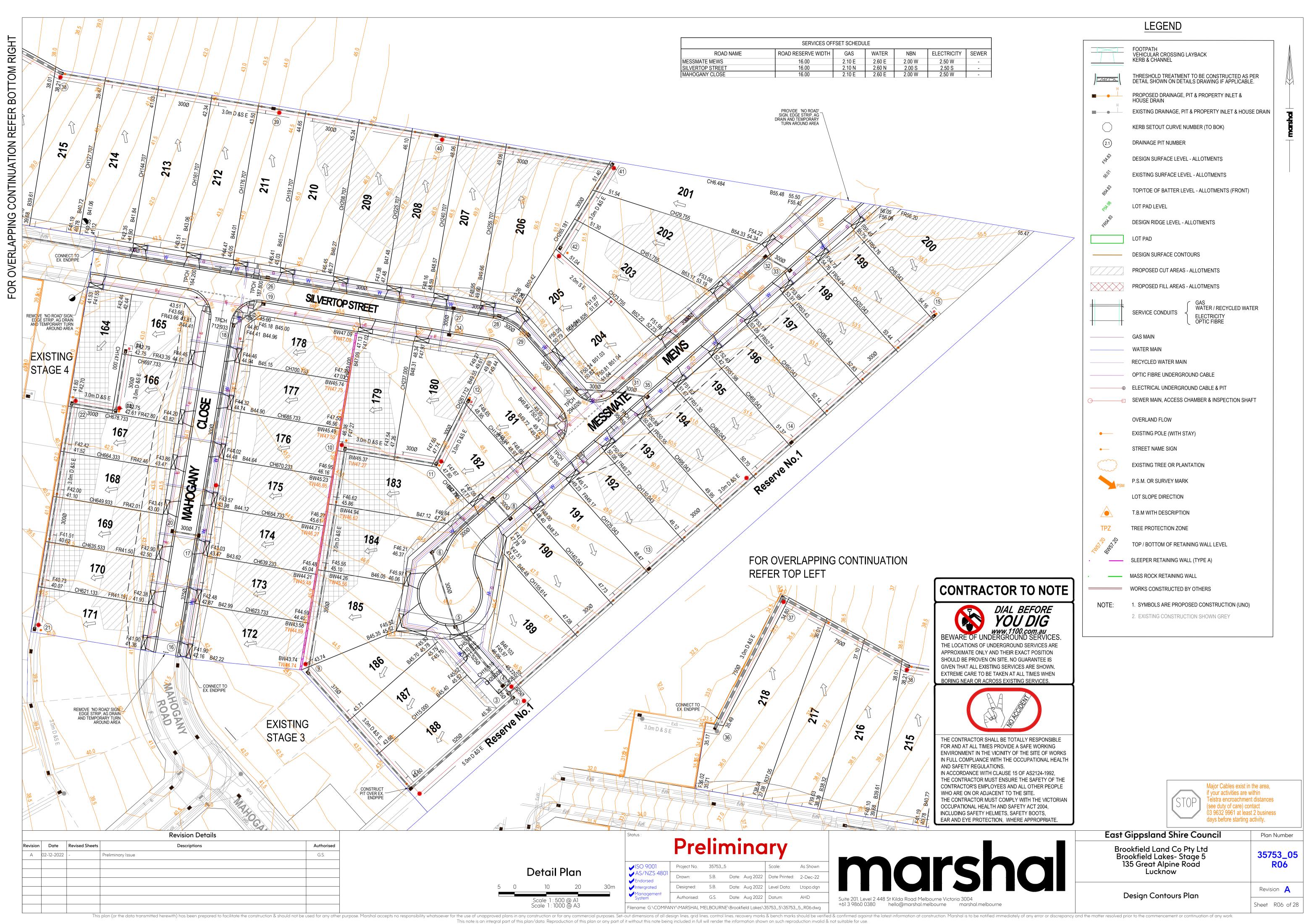


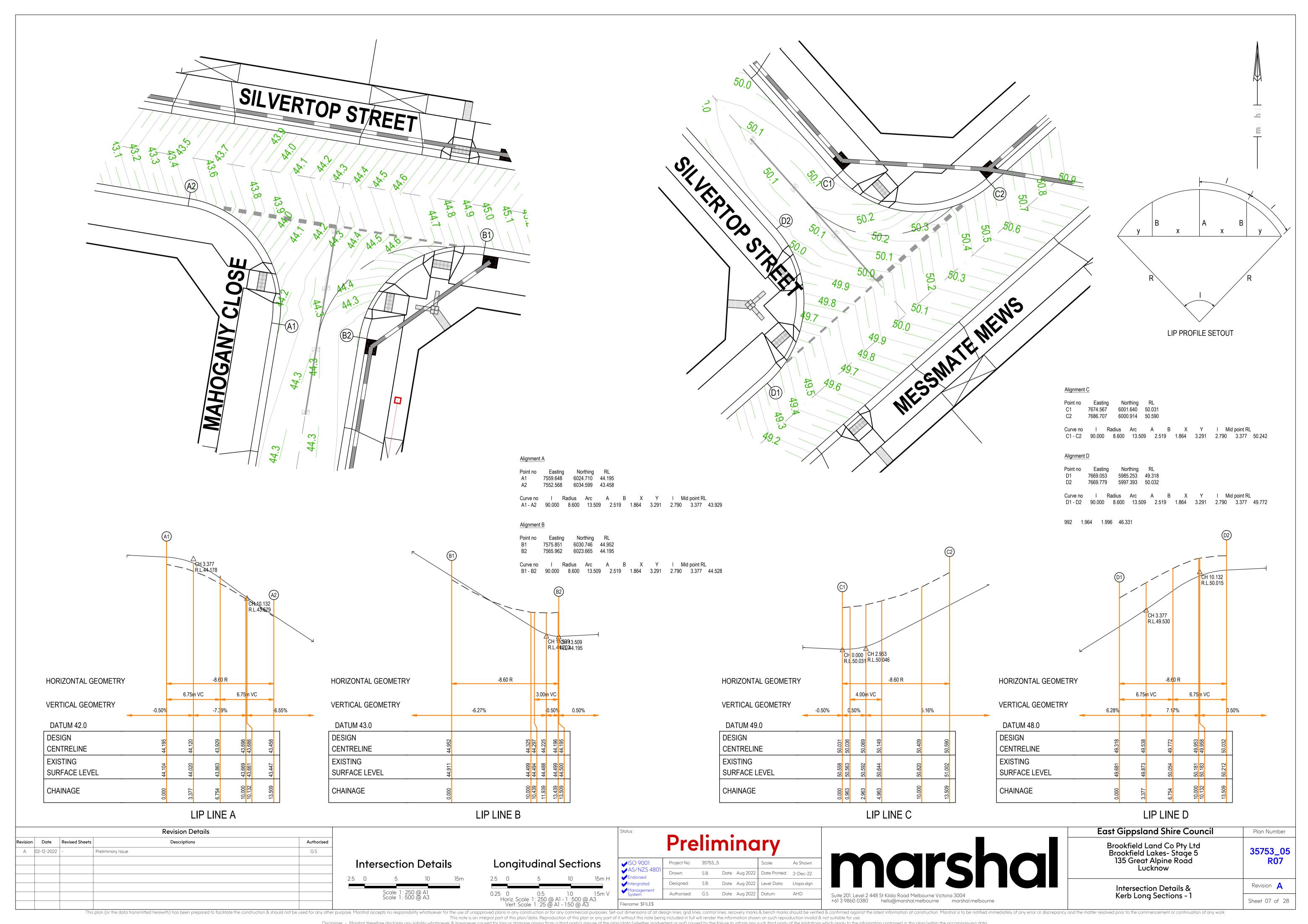
East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R04
Typical Road Cross Sections & Details,	Revision A
Kerb Profile Details	Ch+ 04 -+ 20

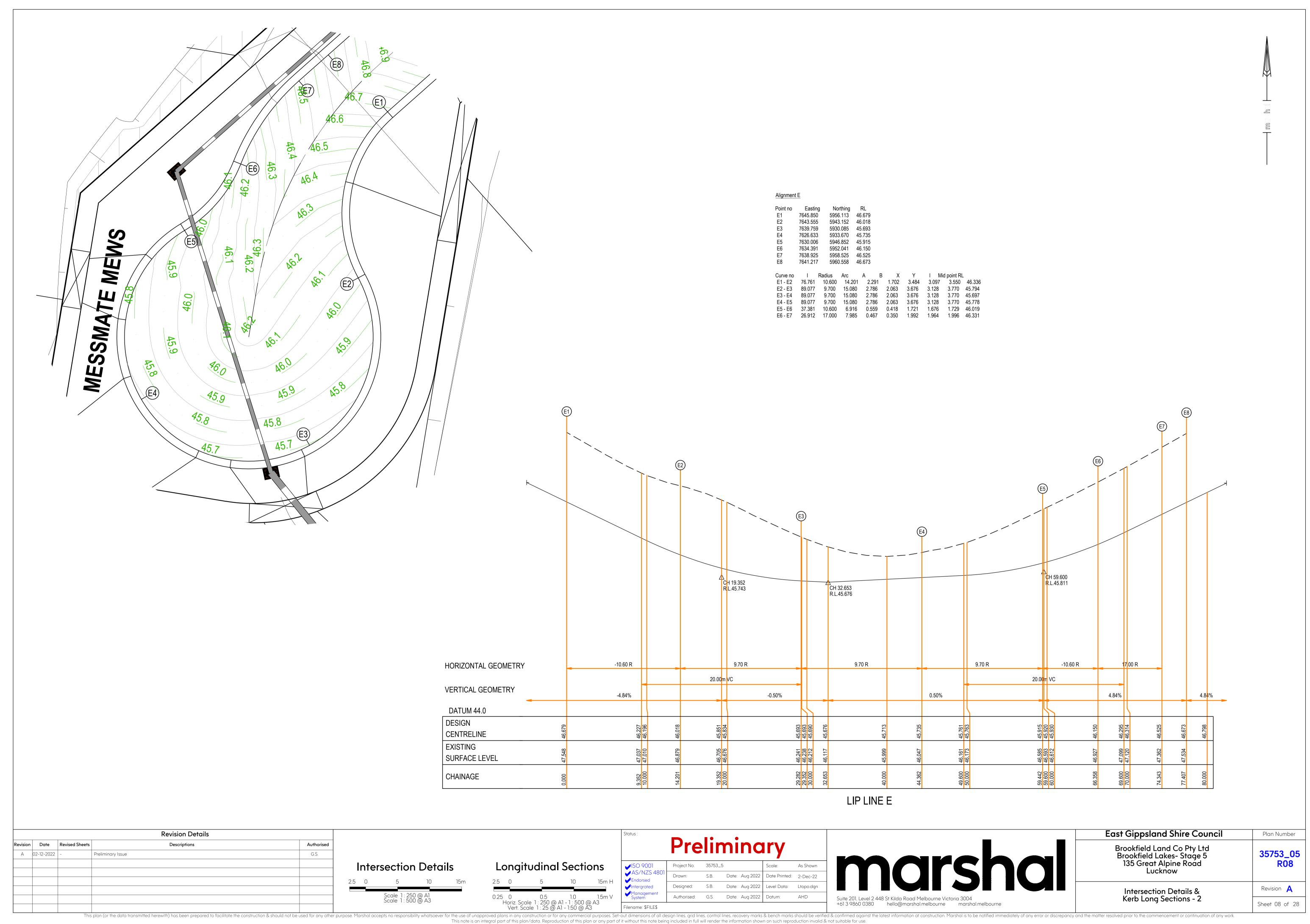
Sheet 04 of 28

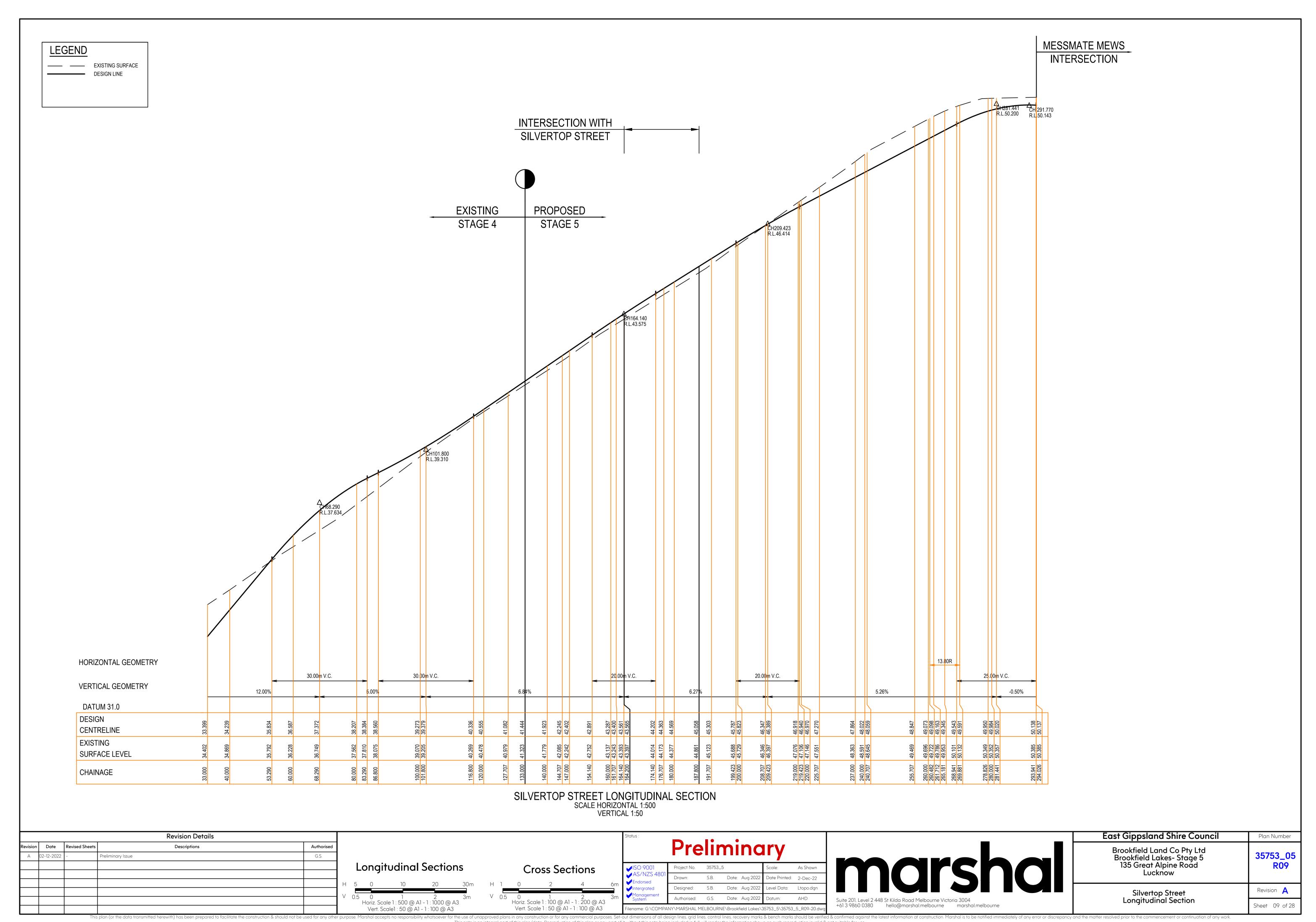
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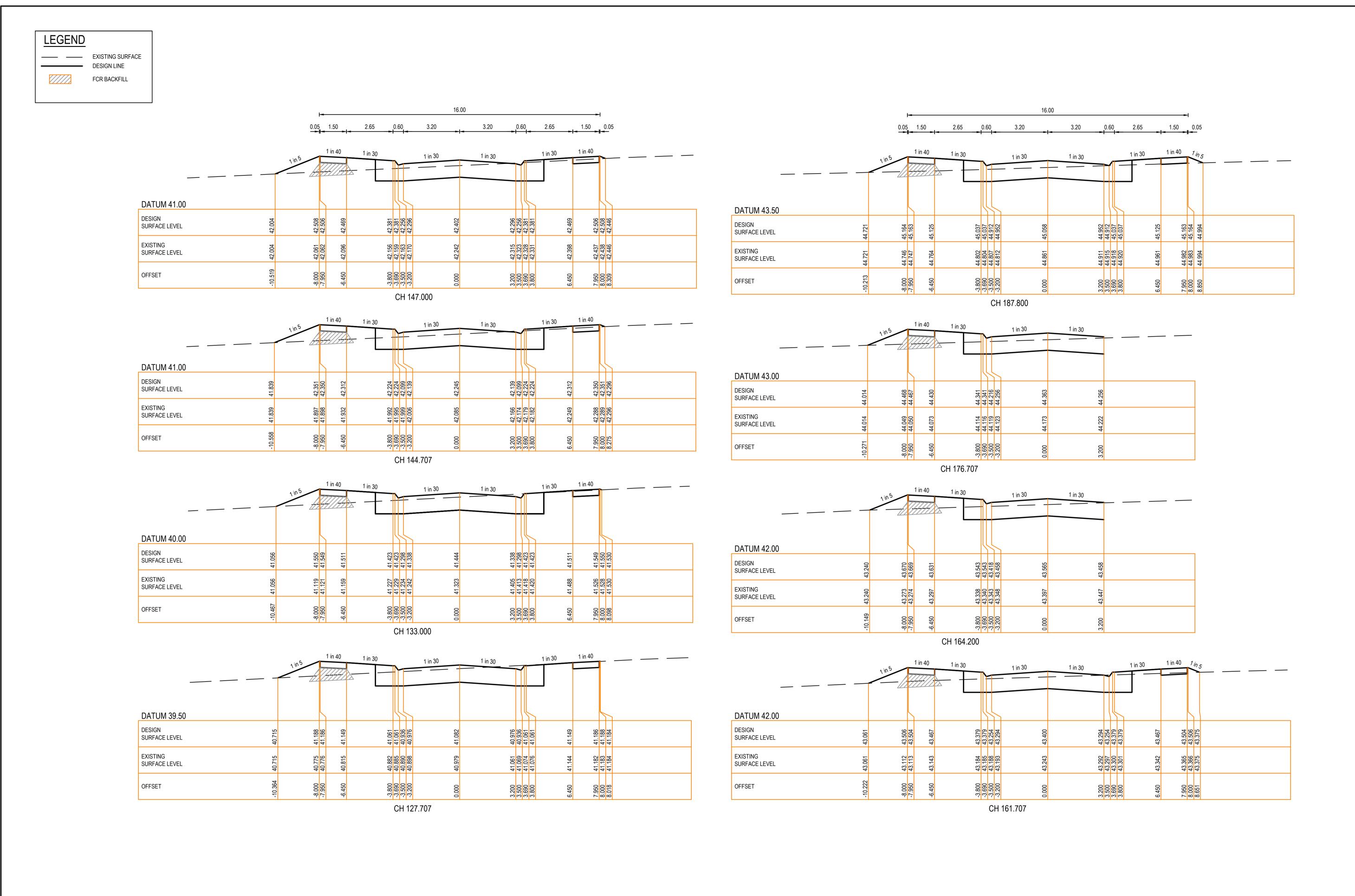




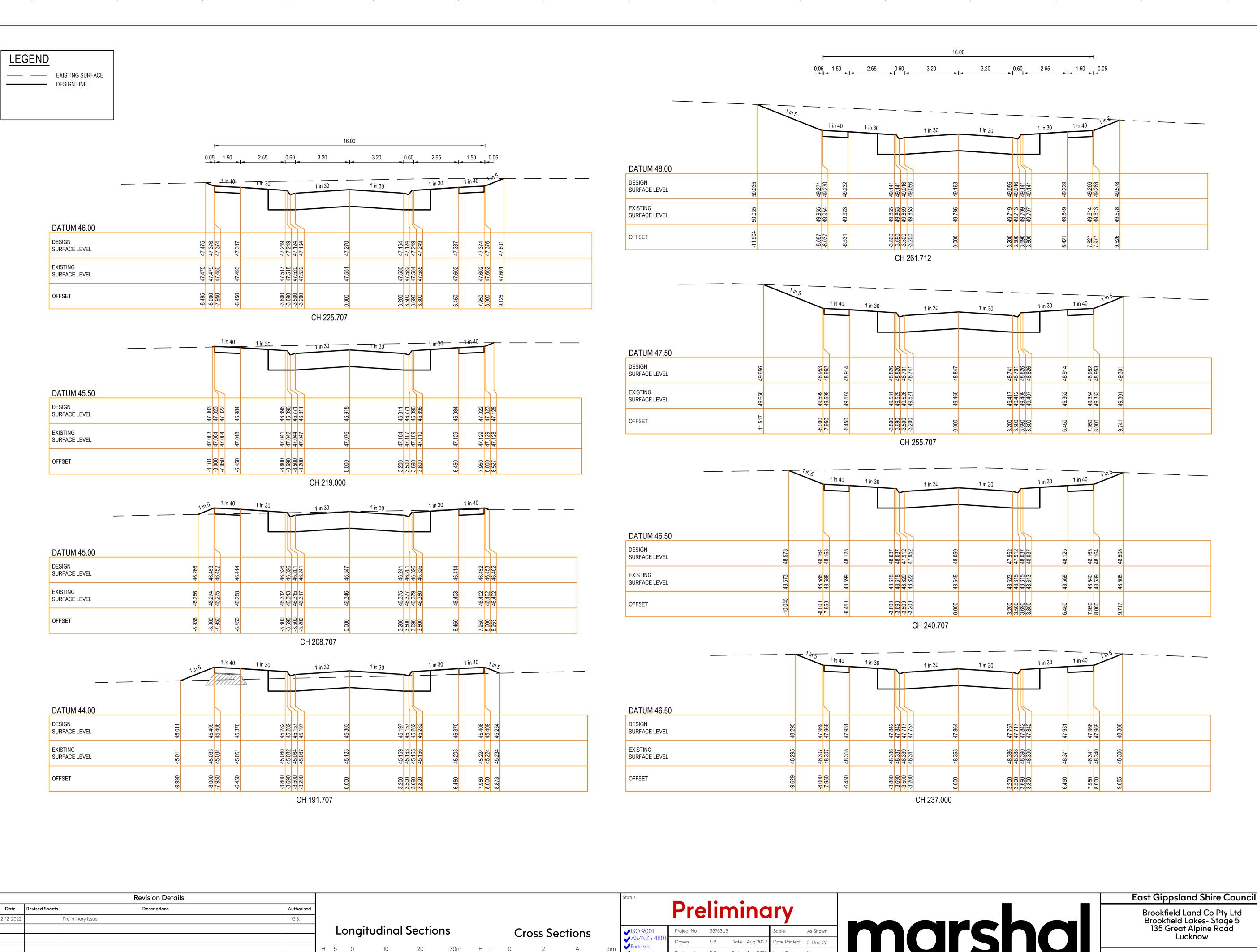








		Revision Details		St	Status:		East Gippsland Shire Council	Pla
rision A 02	Date 2-12-2022	Revised Sheets Descriptions - Preliminary Issue	Authorised G.S.		Preliminary		Brookfield Land Co Pty Ltd	35
				Cross Sections	✓ISO 9001 Project No. 35753_5 Scale: As Shown ✓AS/NZS 4801 Drown: S.B. Date: Aug 2022 Date Printed: 2. Doc 22	marshal	Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	
				H 1 0 2 4 6m	✓ Endorsed ✓ Intergrated ✓ Designed: S.B. Date: Aug 2022 Level Data: Ltopo.dgn ✓ Management		Silvertop Street	Re
				V U.5 U	System Authorised: G.S. Date: Aug 2022 Datum: AHD Filename: G:\COMPANY\MARSHAL MELBOURNE\Brookfield Lakes\35753_5\35753_5_R09-20.dwg	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	Silvertop Street Cross Section - 1	Shee

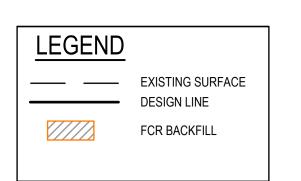


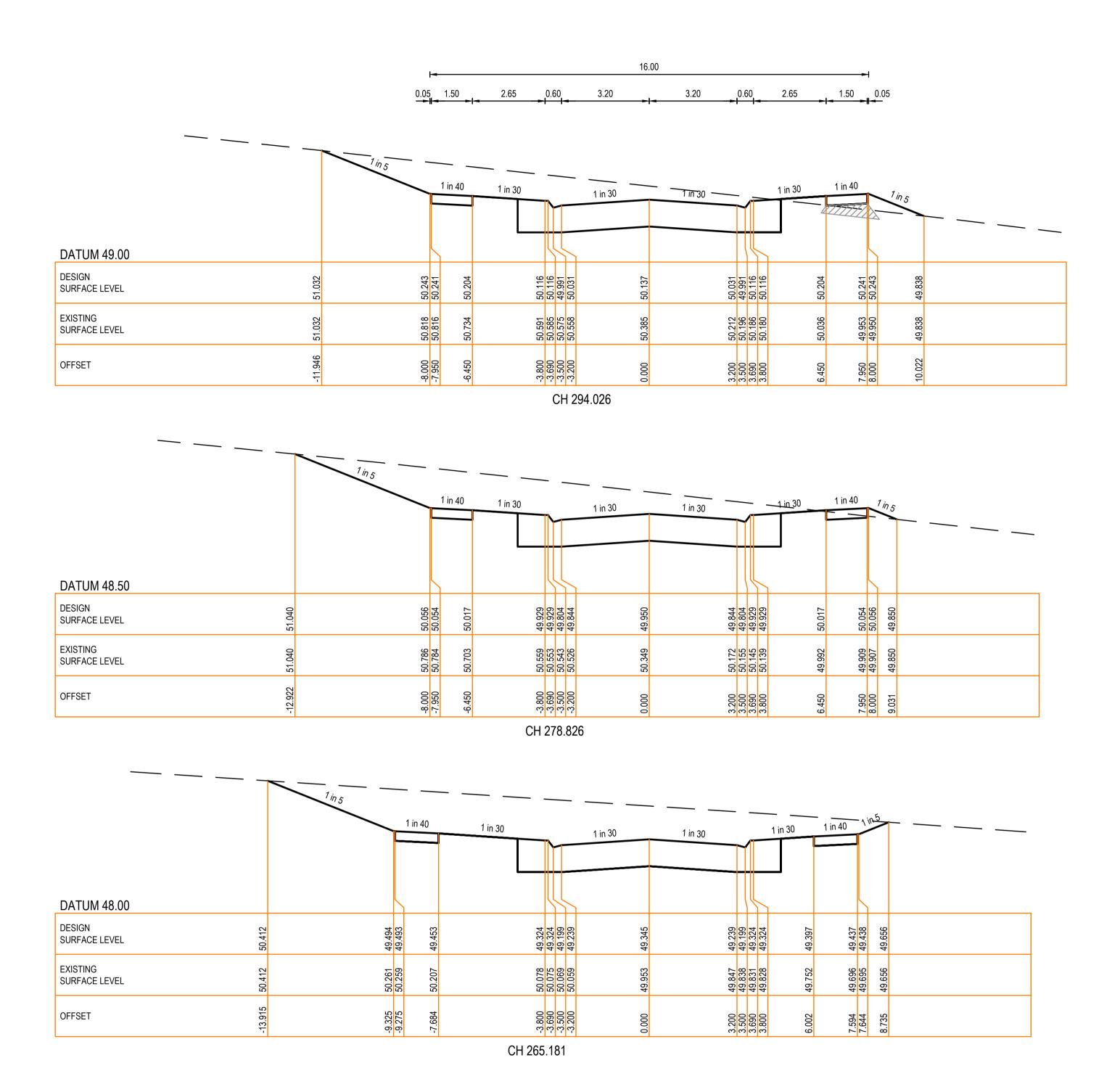
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V 0.5 0 10 Horiz. Scale 1 : 500 @	•	Horiz. Scale 1 : 100 @ A1 - 1 : 200 @ A3	✓ Intergrated ✓ Management System	Designed: S.B. Authorised: G.S.	Date: Aug 2022 Date: Aug 2022	Level Data: Ltopo.d Datum: AHD	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	Silvertop Street Cross Section - 2	Revision A Sheet 11 of 28	
Vert. Scale1 : 50 @ A	A1 - 1 : 100 @ A3	Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3	Filename: G:\COMPA	NY\MARSHAL MELBOU	JRNE\Brookfield Lakes\	\35753_5\35753_5_R09-2	dwg		311001 11 01 20	
should not be used for any other purpose. Marshal accepts no responsik	ility whatsoever for the use of unapproved plr	lans in any construction or for any commercial purposes. Set	t-out dimensions of all de	esign lines, grid lines, con	ntrol lines, recovery marks	s & bench marks should be	erified & confirmed against the latest information at construction. Marshal is to be notified immediately of any error or discr	ancy and the matter resolved prior to the commencement or continuation of any work.		
	This note is an integral pa	art of this plan/data. Reproduction of this plan or any part o	of it without this note being	g included in full will ren	der the information show	wn on such reproduction ir	lid & not suitable for use.			
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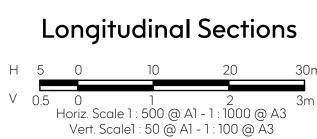
Plan Number

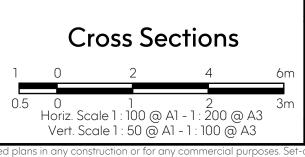
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	Revision Details								
Revision	Date	Revised Sheets	Descriptions	Authorised					
А	02-12-2022	-	Preliminary Issue	G.S.					
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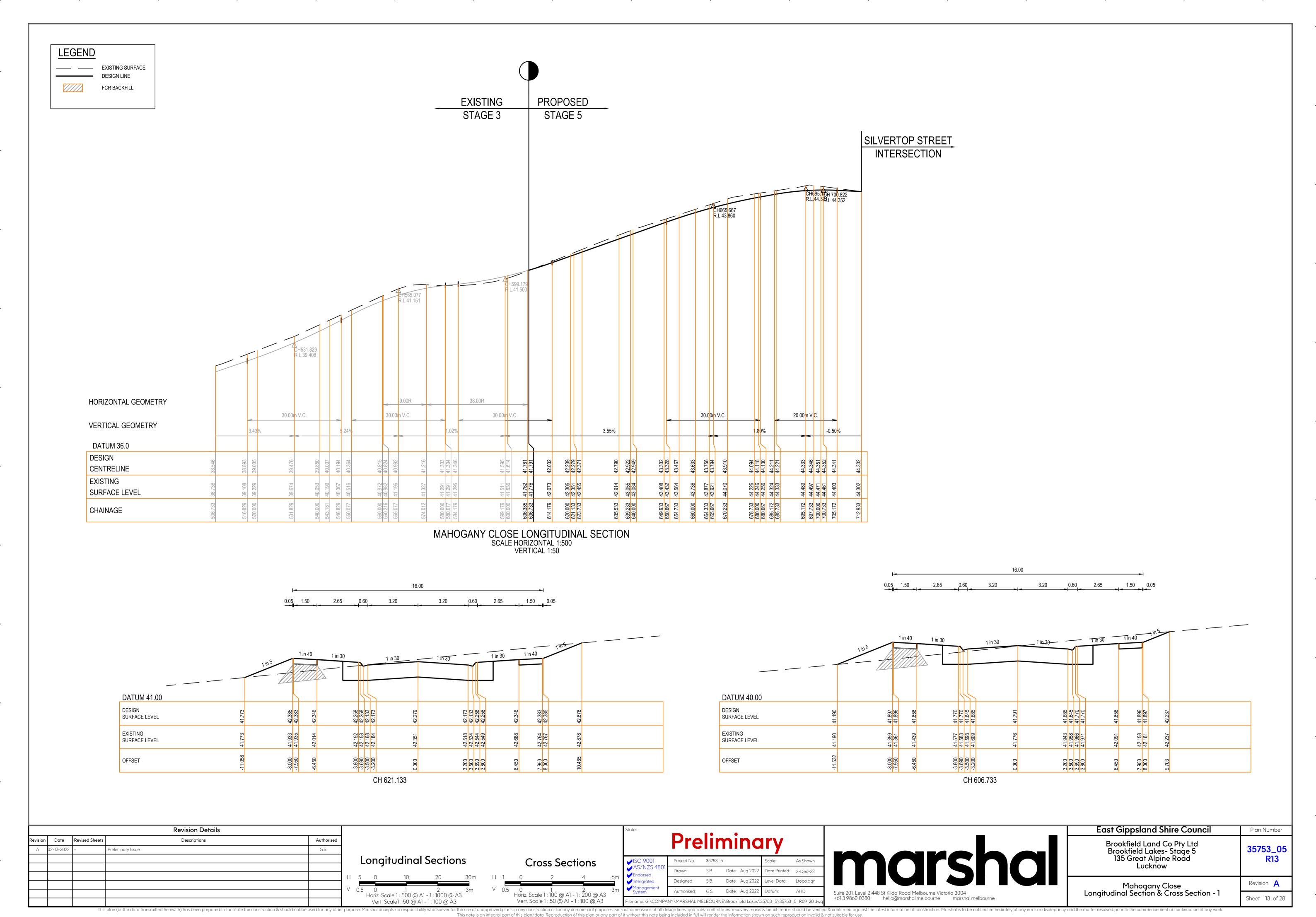


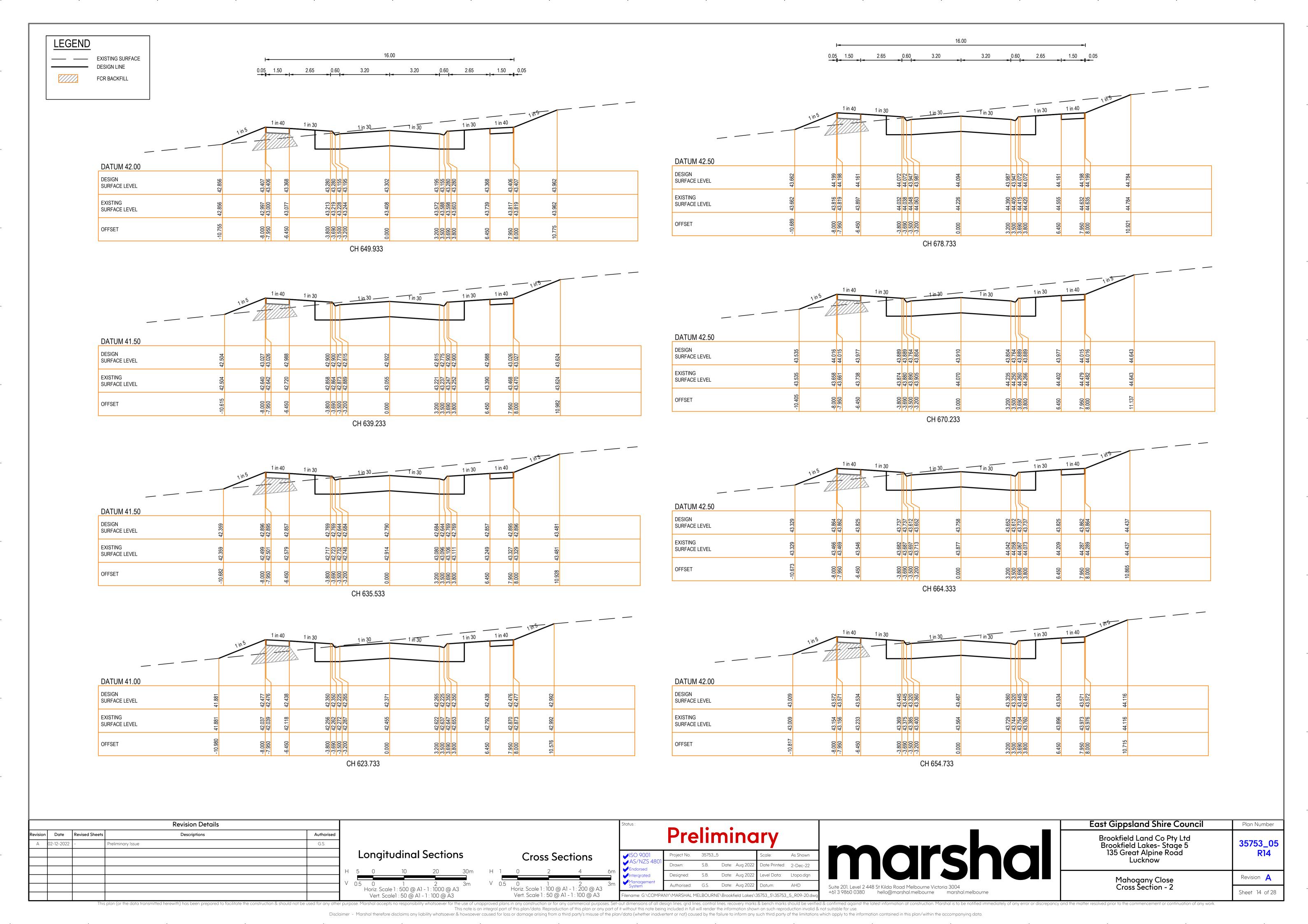


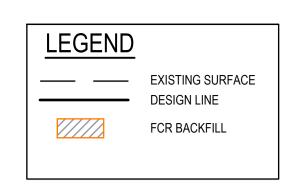


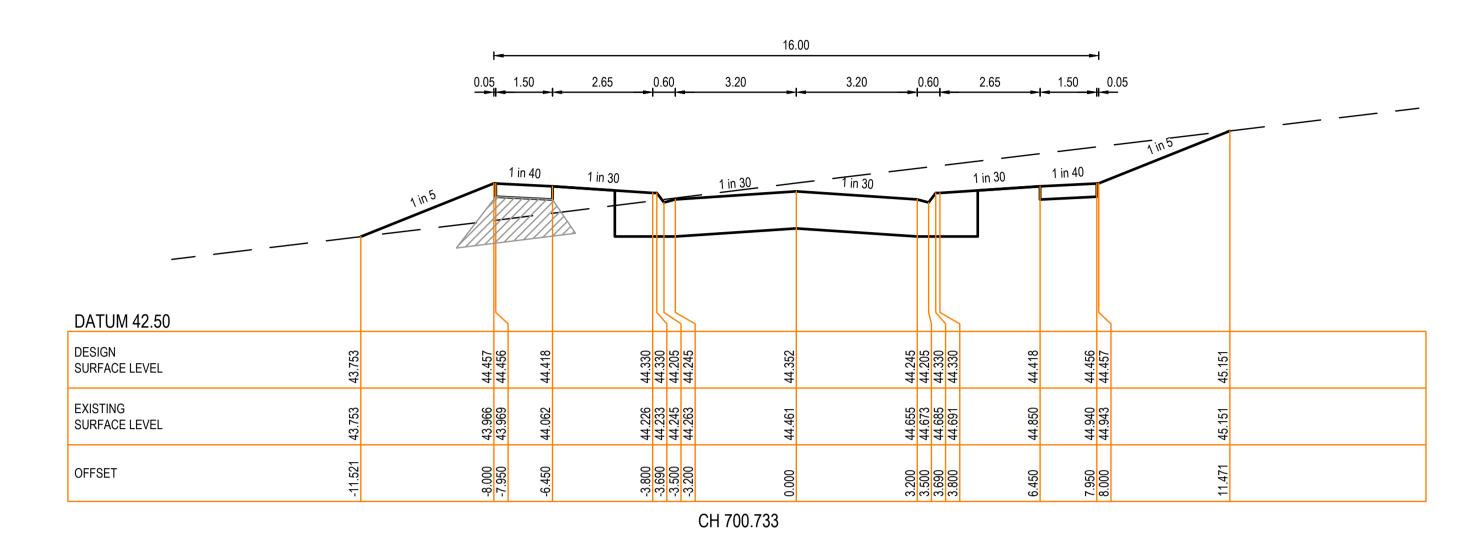
East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R12
Silvertop Street Cross Section - 3	Revision A
Cross Section - 3	Shoot 12 of 28

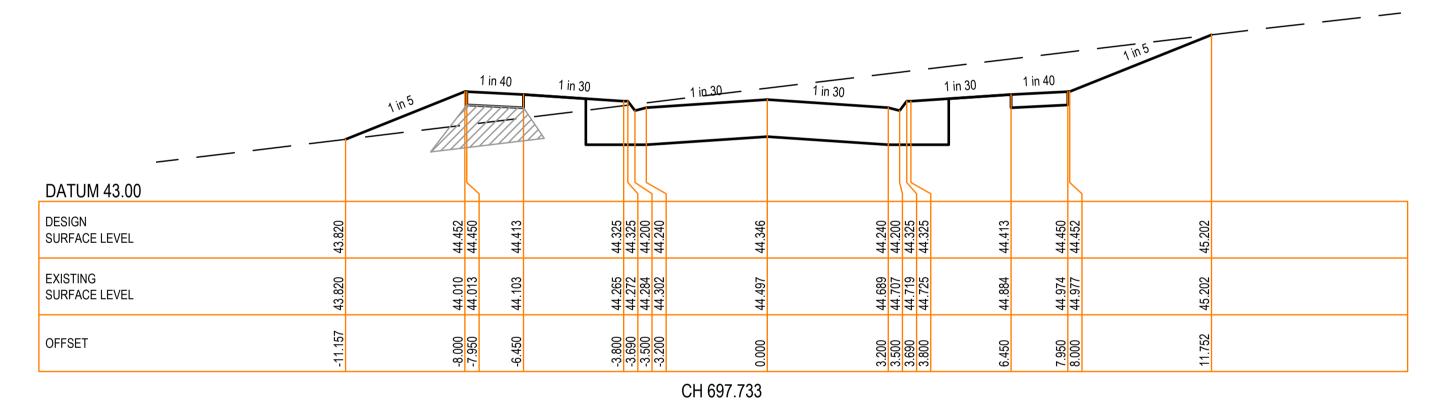
Sheet 12 of 28

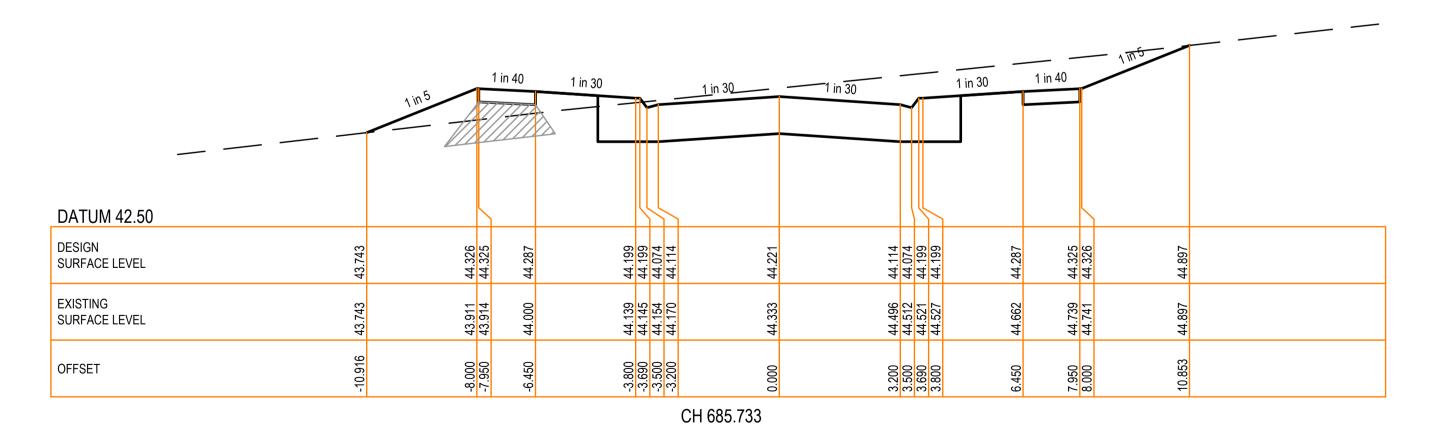


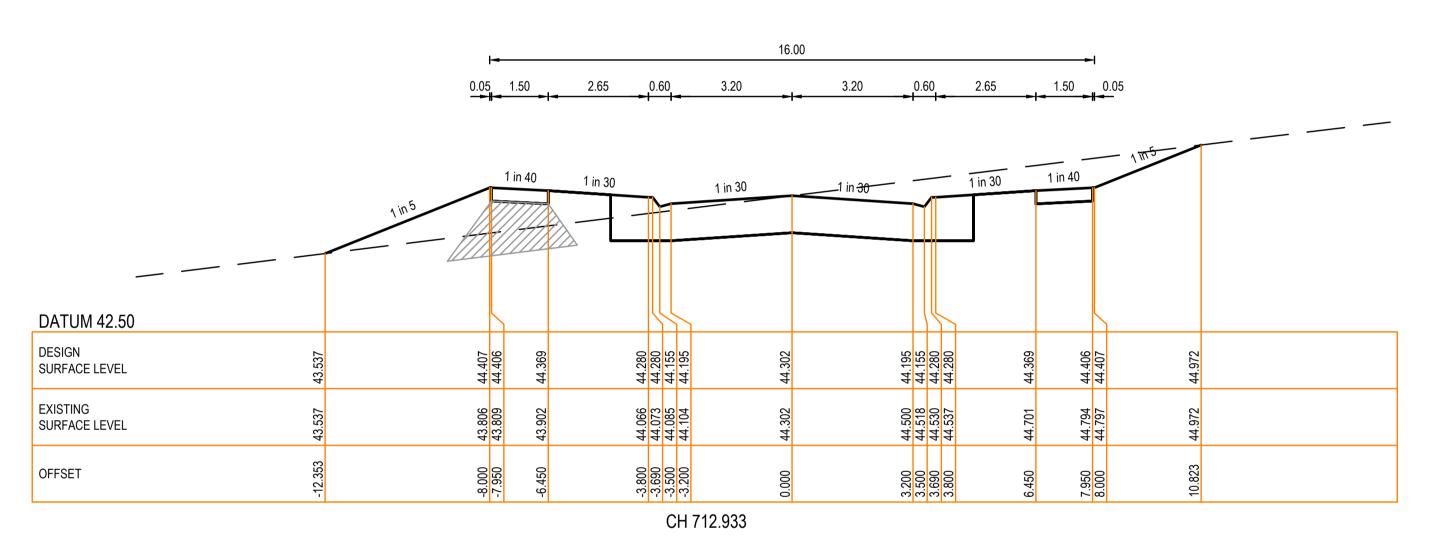


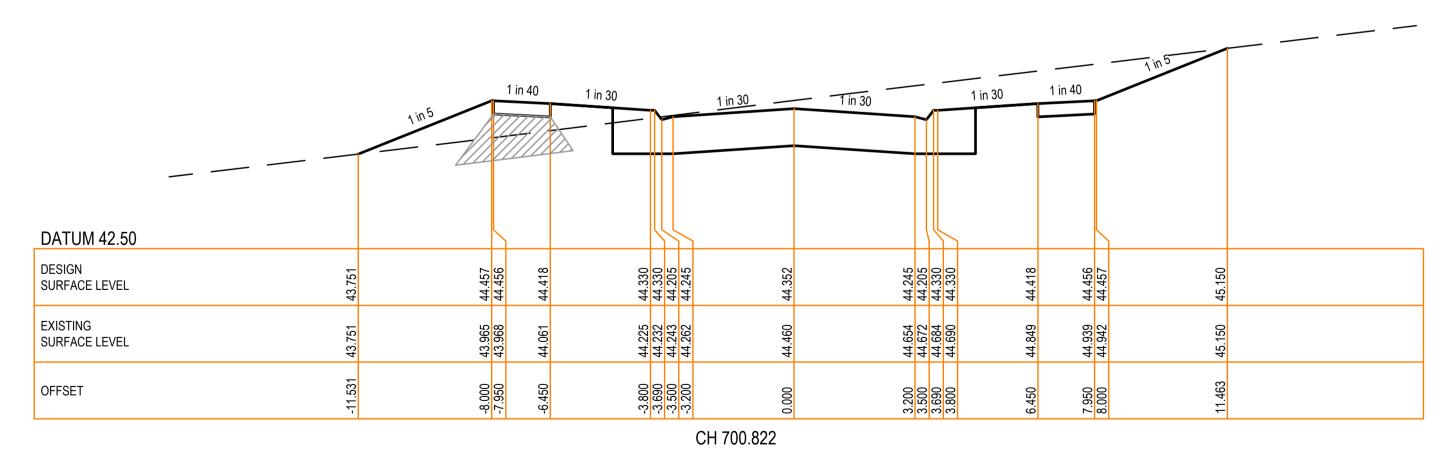




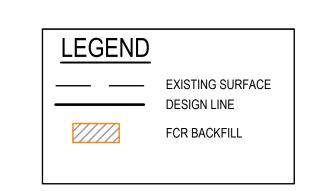


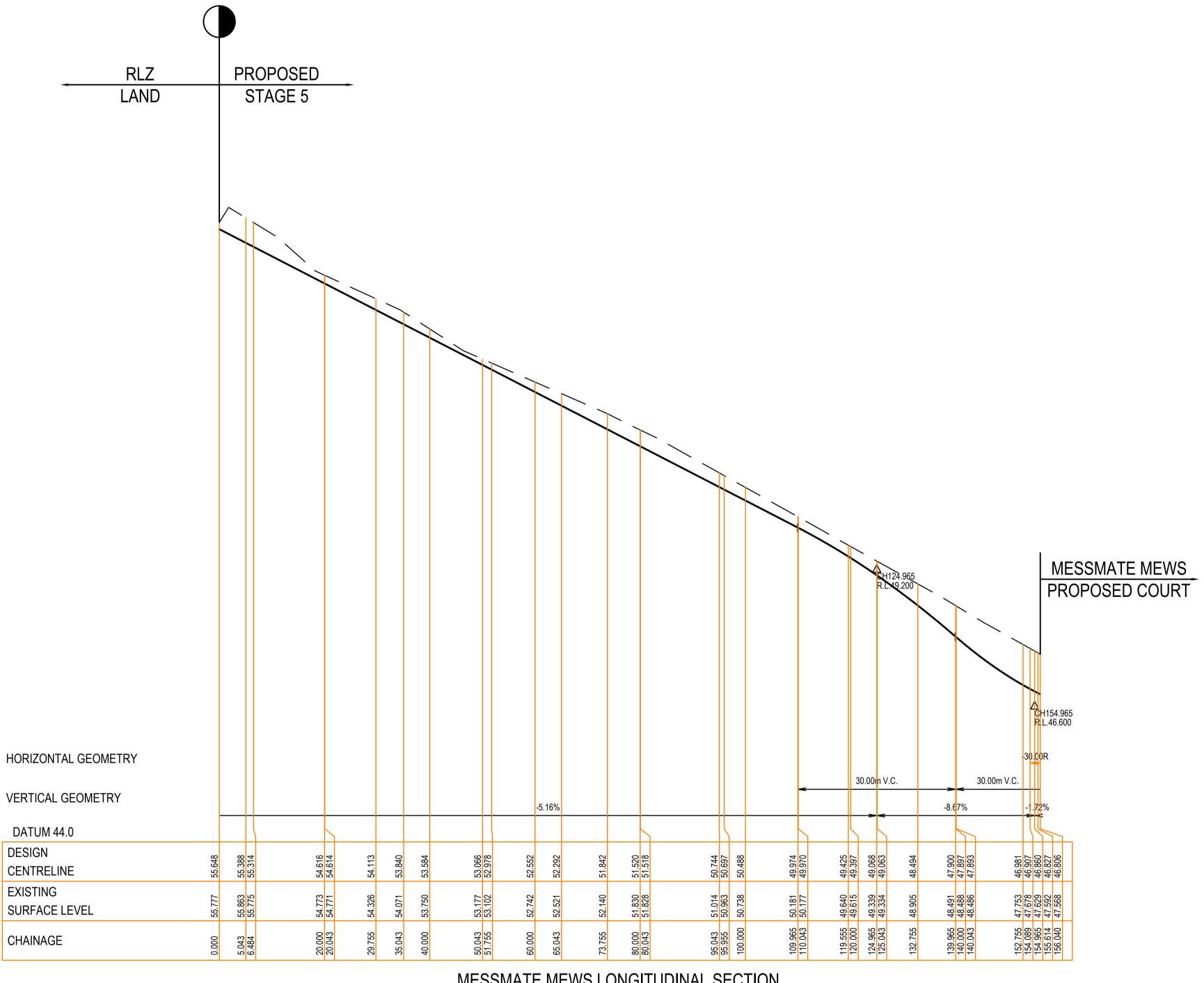






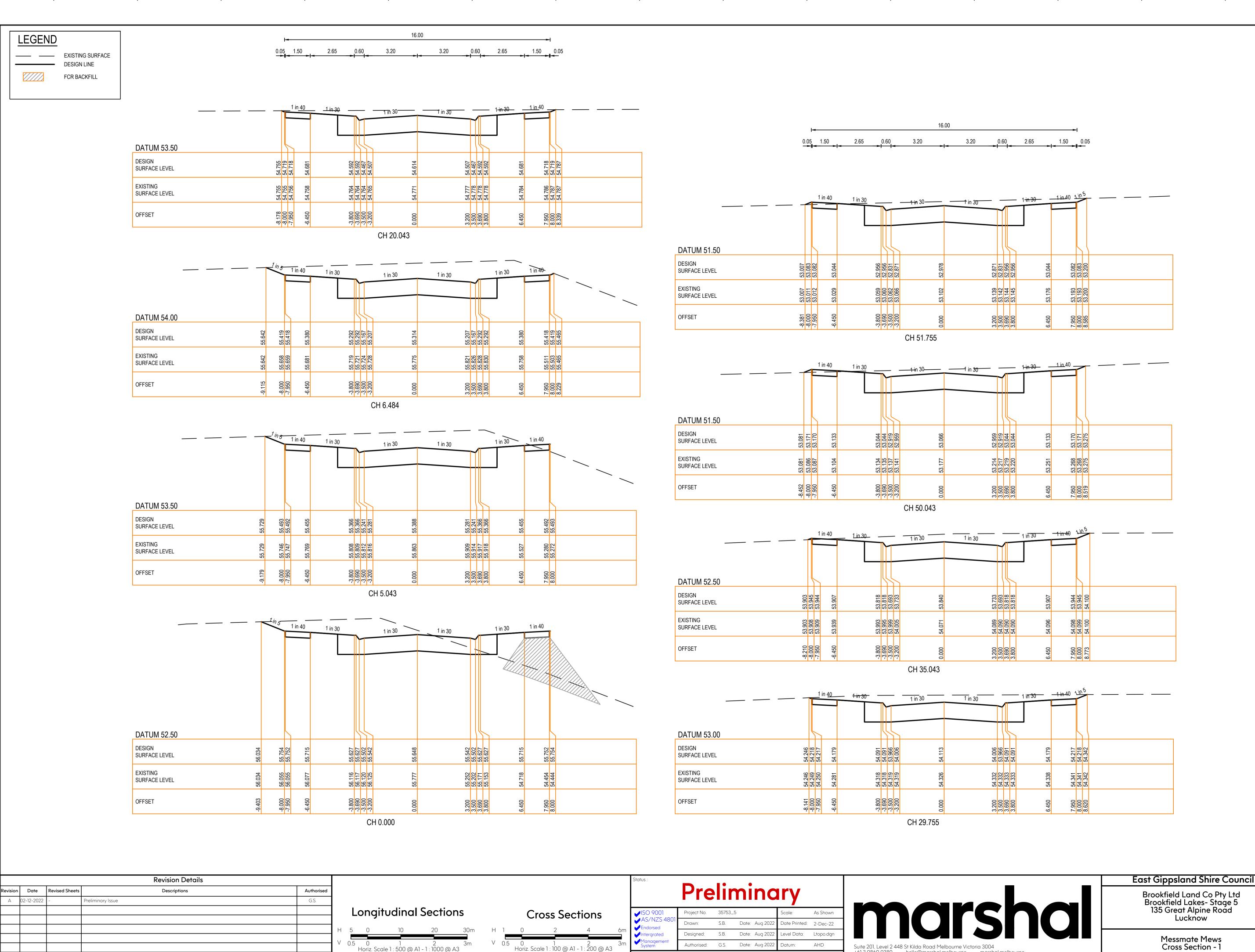
	Revision Details				Status :			East Gippsland Shire Council	Plan Number
ion Date Revised Sheets 02-12-2022 - Preliminary Issue	Descriptions	Authorised				Preliminary		Brookfield Land Co Pty Ltd	35753_05
O2-12-2022 - Preliminary issue		G.S.	Longitudinal Sections	Cross Sections	✓ISO 9001	Project No. 35753_5 Scale: As Shown	marshal	Brookfield Lakes- Stage 5 135 Great Alpine Road	R15
			H 5 0 10 20 30m H	1 0 2 4 6m	Endorsed Intergrated	Drawn: S.B. Date: Aug 2022 Date Printed: 2-Dec-22 Designed: S.B. Date: Aug 2022 Level Data: Ltopo.dgn		Lucknow	Revision A
			V 0.5 0 1 2 3m V 0 Horiz. Scale 1 : 500 @ A1 - 1 : 1000 @ A3 Vert. Scale1 : 50 @ A1 - 1 : 100 @ A3	0.5 0 1 2 3m Horiz. Scale 1 : 100 @ A1 - 1 : 200 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3	✓Management System	Authorised: G.S. Date: Aug 2022 Datum: AHD PANY\MARSHAL MELBOURNE\Brookfield Lakes\35753_5\35753_5_R09-20.dwa	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	Mahogany Close Cross Section - 3	Sheet 15 of 28





ME22MATE MEM2 FONGITODINAL SECT	IUN
SCALE HORIZONTAL 1:500	
VERTICAL 1:50	

	Revision Details				Status :			East Gippsland Shire Council	Plan Number
Revision Date Revised Sheets	Descriptions	Authorised				Preliminary		Brookfield Land Co Pty Ltd	
A 02-12-2022 - Pre	Preliminary Issue	G.S.				i i ciii i ii i ai y			35753_05
			Longitudinal Sections	Cross Sections	✓ ISO 9001	Project No. 35753_5 Scale: As Shown	marshal	Brookfield Lakes- Stage 5 135 Great Alpine Road	R16
				✓ A3/ N23 4001	Drawn: S.B. Date: Aug 2022 Date Printed: 2-Dec-22		Lucknow		
			, 5 0 10 20 30m H I 0 2 4		10 20 30m H I 0 2 4 6m		Designed: S.B. Date: Aug 2022 Level Data: Ltopo.dgn		Magazzata Maura
			V 0.5 0 1 2 3m V (0.5 0 1 2 3m	✓Management System	Authorised: G.S. Date: Aug 2022 Datum: AHD	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004	Messmate Mews Longitudinal Section	
			Horiz, Scale I : 500 @ AI - I : 1000 @ A3 Vert, Scale1 : 50 @ AI - 1 : 100 @ A3	Vert. Scale 1 : 100 @ A1 - 1 : 100 @ A3	Filename: G:\COMF	PANY\MARSHAL MELBOURNE\Brookfield Lakes\35753_5\35753_5_R09-20.dwa	+61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	20119110411141 00011011	Sheet 16 of 28
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Horiz. Scale 1 : 100 @ A1 - 1 : 200 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3

Horiz. Scale 1 : 500 @ A1 - 1 : 1000 @ A3

Vert. Scale1 : 50 @ A1 - 1 : 100 @ A3

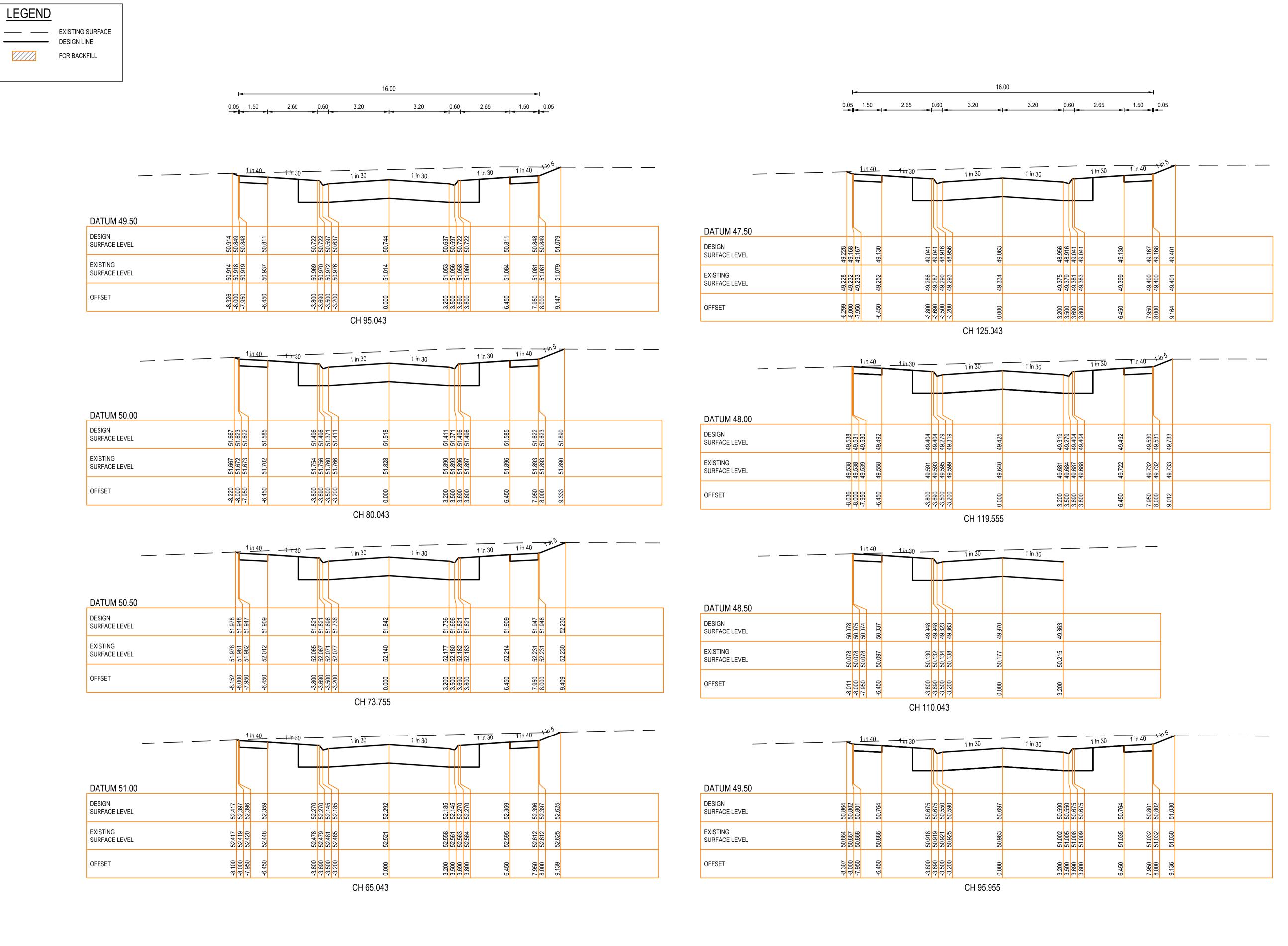
Plan Number

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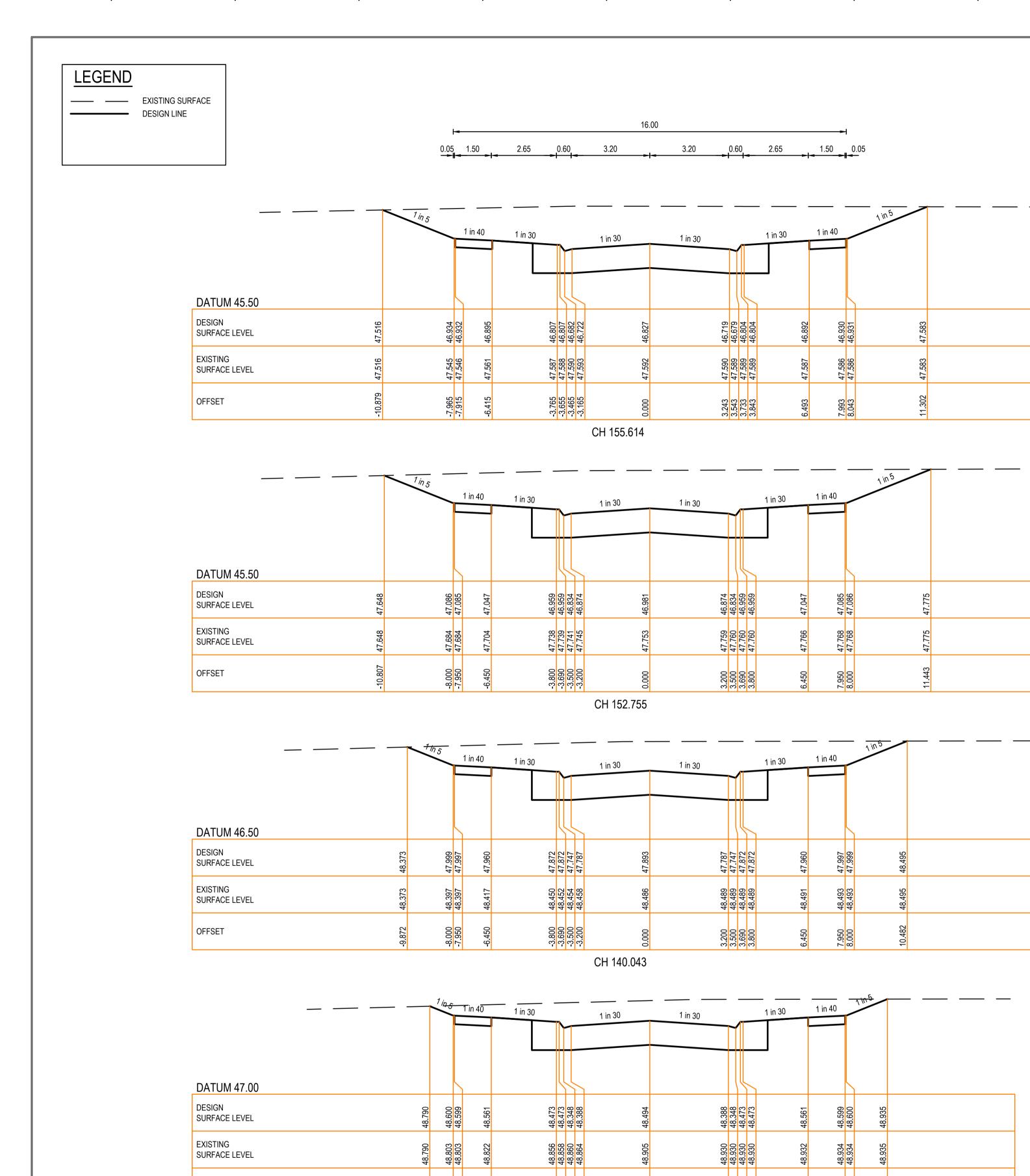
Revision 🛕

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Revision Details			Status :			East Gippsland Shire Council	Plan Number
Descriptions	Authorised			Preliminary		Brookfield Land Co Pty Ltd	
	G.S.			i i ciii i ii i ai y		Brookfield Lakes- Stage 5	35753_05
		Longitudinal Sections Cross Sections	✓ISO 9001	Project No. 35753_5 Scale: As Shown	MARCHAI		R18
			AS/NZS 48 Findorsed	Drawn: S.B. Date: Aug 2022 Date Printed: 2-Dec-22		LOCKIOW	
		H 5 U IU 2U 3UM H I U 2 4 6	Intergrated Management	Designed: S.B. Date: Aug 2022 Level Data: Ltopo.dgn		Messmate Mews	Revision 🛕
		V 0.5 0 1 2 3m V 0.5 0 1 2 3 Horiz. Scale 1 : 500 @ A1 - 1 : 1000 @ A3 Horiz. Scale 1 : 100 @ A1 - 1 : 200 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3	m System Filename: G:\COM	Authorised: G.S. Date: Aug 2022 Datum: AHD MPANY\MARSHAL MELBOURNE\Brookfield Lakes\35753_5\35753_5_R09-20.dw	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	Cross Section - 2	Sheet 18 of 28
	Revision Details Descriptions		Descriptions Authorised G.S. Longitudinal Sections Cross Sections Cross Sections H	Descriptions	Authorised G.S. Longitudinal Sections Cross Sections Under the following state of the control	Descriptions Authorised G.S. Longitudinal Sections Cross Sections H 5 0 10 20 30m H 1 0 2 4 6m Addressed Horize, Scale 1:500 @ A1 - 1:200 @ A3 Horiz. Scale 1:500 @ A1 - 1:200 @ A3 Horiz. Scale 1:500 @ A1 - 1:200 @ A3 Authorised Preliminary Siscole: As Shown Drawn: S.B. Date: Aug 2022 Date Printed: 2-Dec-22 Designed: S.B. Date: Aug 2022 Level Data: Liopa dgn Authorised: G.S. Date: Aug 2022 Datum: AHD Suite 201 Level 2 448 St Kilda Road Melbourne Victoria 3004 Horiz. Scale 1:500 @ A1 - 1:200 @ A3 Authorised: G.S. Date: Aug 2022 Datum: AHD	Descriptions Authorised G.S. Longitudinal Sections Cross Sections H 5 0 10 20 30m H 1 0 2 4 6m Horiz. Scale 1: 1000 @ A1 - 1: 2000 @ A3 W 150 9001 Segred: SB Date: Aug 2022 Date Printed: 2-Dec-22 Designed: Brookfield Land Co Pty Ltd

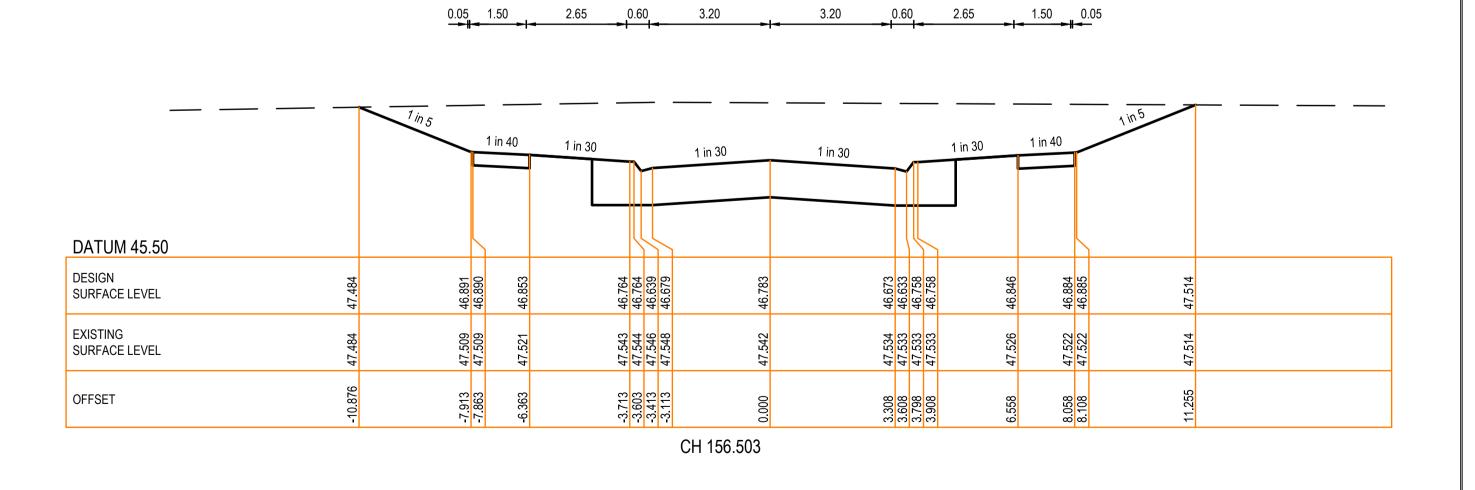


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OFFSET

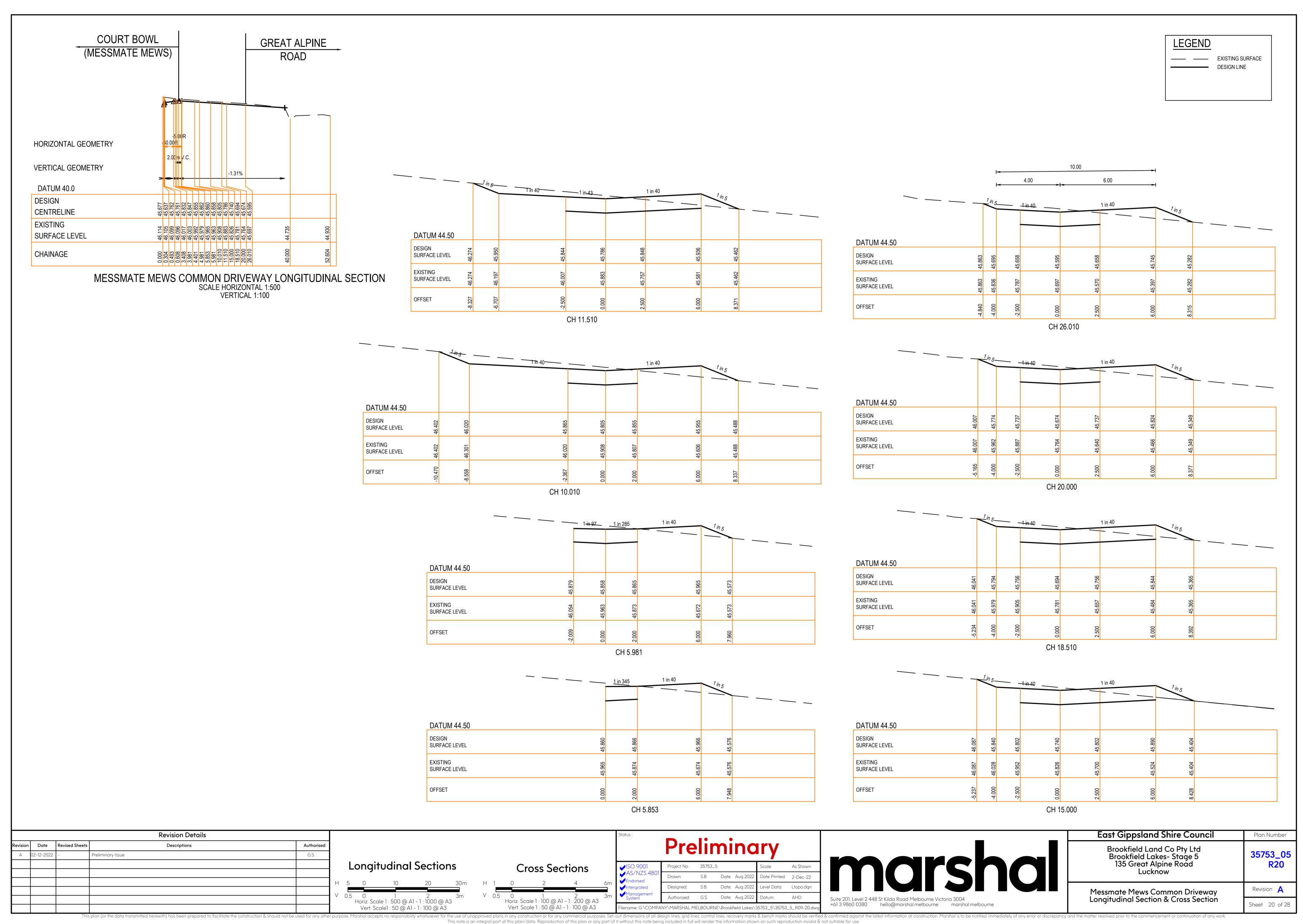
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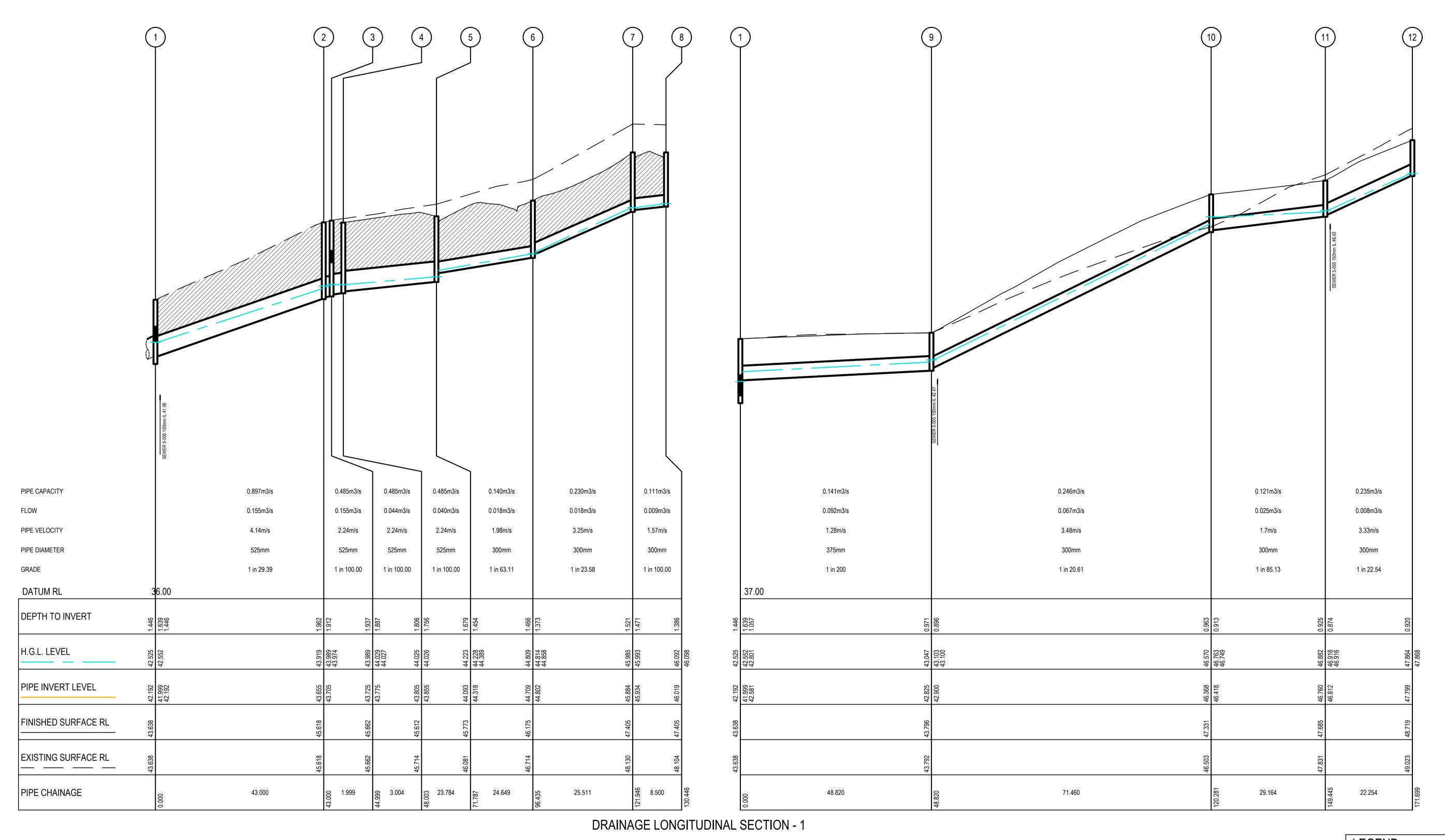
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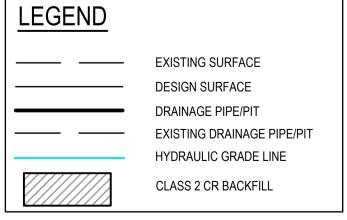


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Revision Details			Status	JS:			East Gippsland Shire Council	Plan Number
Revision Date Revised Sheets Descriptions	Authorised				Preliminary		Brookfield Land Co Pty Ltd	
A 02-12-2022 - Preliminary Issue	G.S.				i i ciii i ii i ai y		Brookfield Lakes- Stage 5	35753_05
		Longitudinal Sections Cross Se	ections 🔽		Project No. 35753_5 Scale: As Shown	marshal	135 Great Alpine Road	R19
			A	AS/NZS 4801	Drawn: S.B. Date: Aug 2022 Date Printed: 2-Dec-22		LUCKNOW	
		H 5 0 10 20 30m H 1 0 2	4 6m	ntergrated	Designed: S.B. Date: Aug 2022 Level Data: Ltopo.dgn			Revision 🛕
		V 0.5 0 1 2 3m V 0.5 0 1	2 3m × _{Sy}	Management System	Authorised: G.S. Date: Aug 2022 Datum: AHD	Suite 201 Level 2 448 St Kilda Road Melbourne Victoria 3004	Messmate Mews Cross Section - 3	THE
		Vert. Scale 1: 500 @ A1 - 1: 1000 @ A3 Horiz. Scale 1: 100 @ A3 Vert. Scale 1: 50 @ A1 - 1: 100 @ A3	9 A1 - 1 : 200 @ A3 Filena	ame: G:\COMPAN	NY\MARSHAL MELBOURNE\Brookfield Lakes\35753_5\35753_5_R09-20.dwg	+61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	Closs Section 5	Sheet 19 of 28







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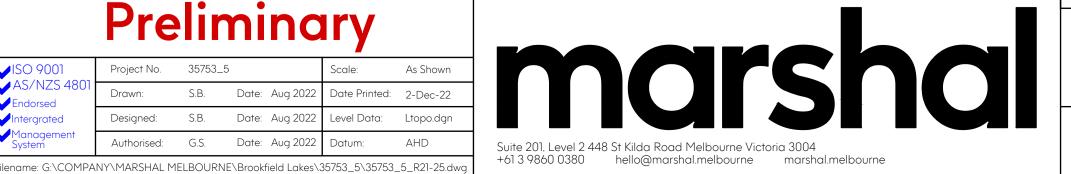
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Revision	Date	Revised Sheets	Descriptions	Authorised		
А	02-12-2022	-	Preliminary Issue	G.S.		

Drainage Longitudinal Sections

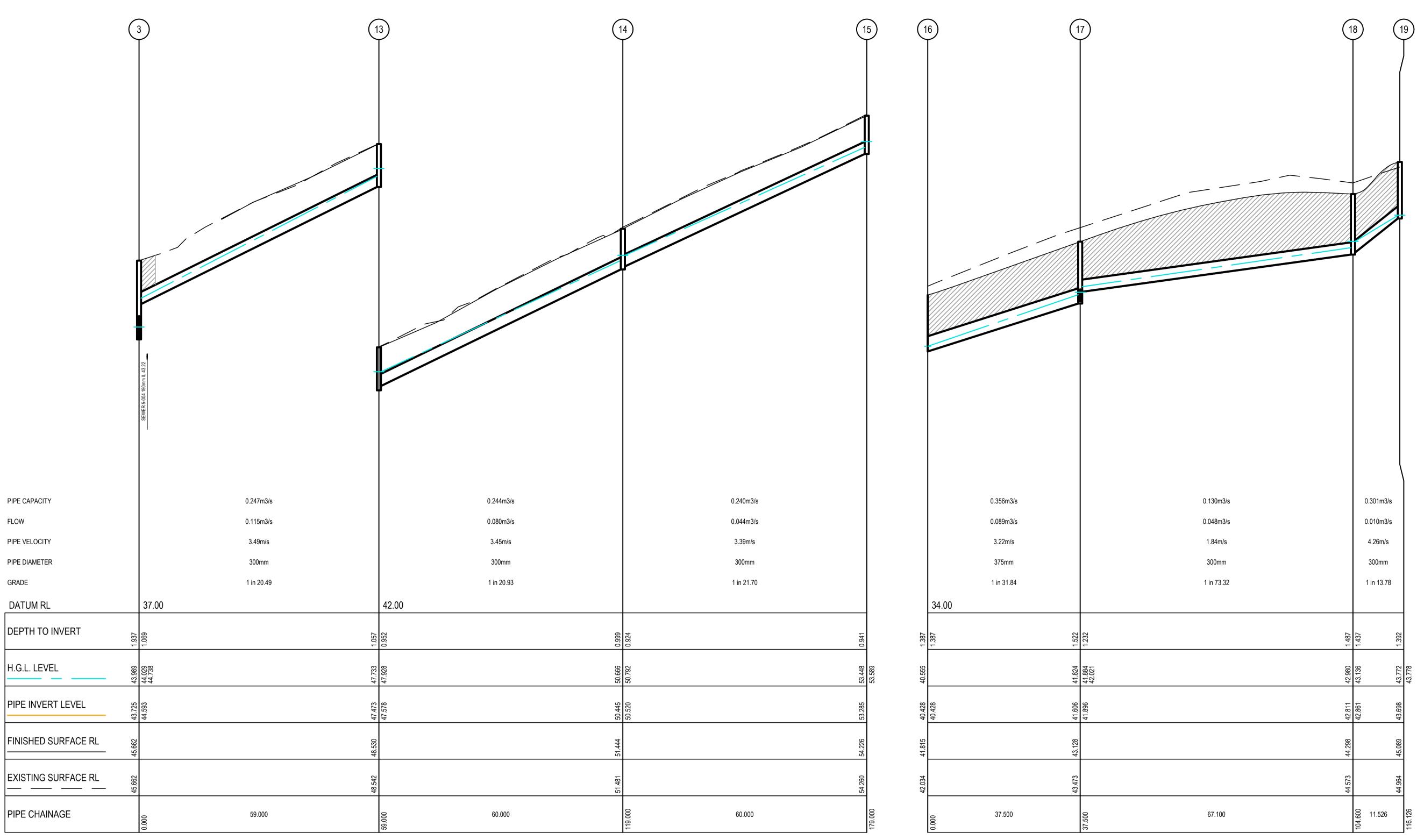
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Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3

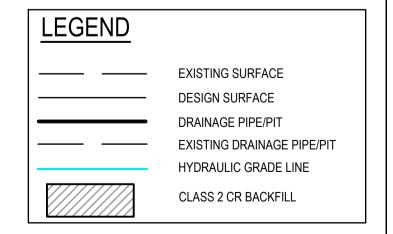
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•	✓ISO 9001 ✓AS/NZS 4801	Project No.	35753_	_5	Scale:	As Shov
	✓ AS/NZS 4801 ✓ Endorsed	Drawn:	S.B.	Date: Aug 2022	Date Printed:	2-Dec-2
	✓ Intergrated	Designed:	S.B.	Date: Aug 2022	Level Data:	Ltopo.de
	✓ Management System	Authorised:	G.S.	Date: Aug 2022	Datum:	AHD



East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R21
Drainage Longitudinal Sections - 1	Revision A
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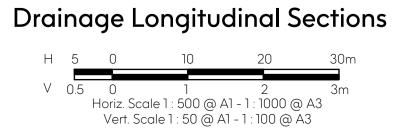


DRAINAGE LONGITUDINAL SECTION - 2



Sheet 22 of 28

	Revision Details					
Revision	Date	Revised Sheets	Descriptions	Authorised		
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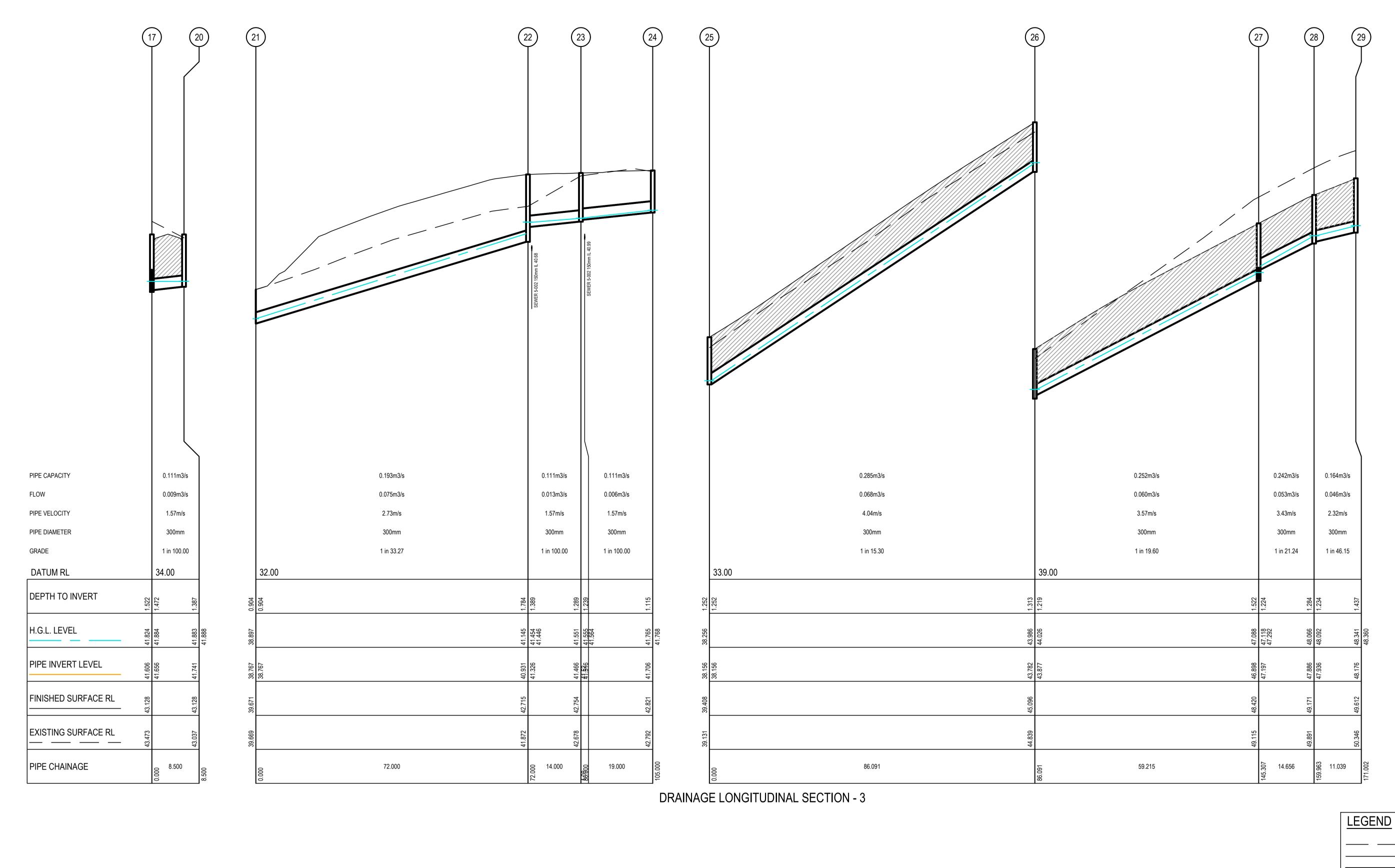


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✓Intergrated		Designed:	S.B.	Date:	Aug 2022	Level Data:	Ltopo.dgn
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	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004 +61 3 9860 0380 hello@marshal.melbourne marshal.melbourne	

East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R22
Drainage Longitudinal Sections - 2	Revision A
Drainage Longitudinal Sections 2	

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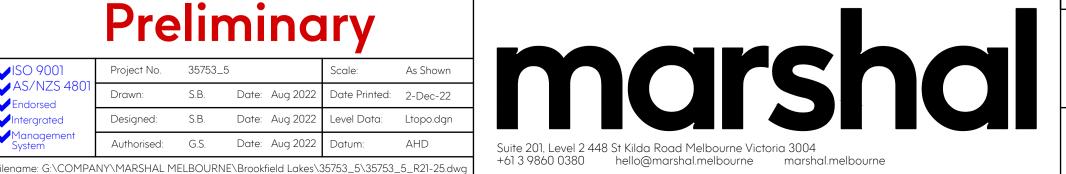




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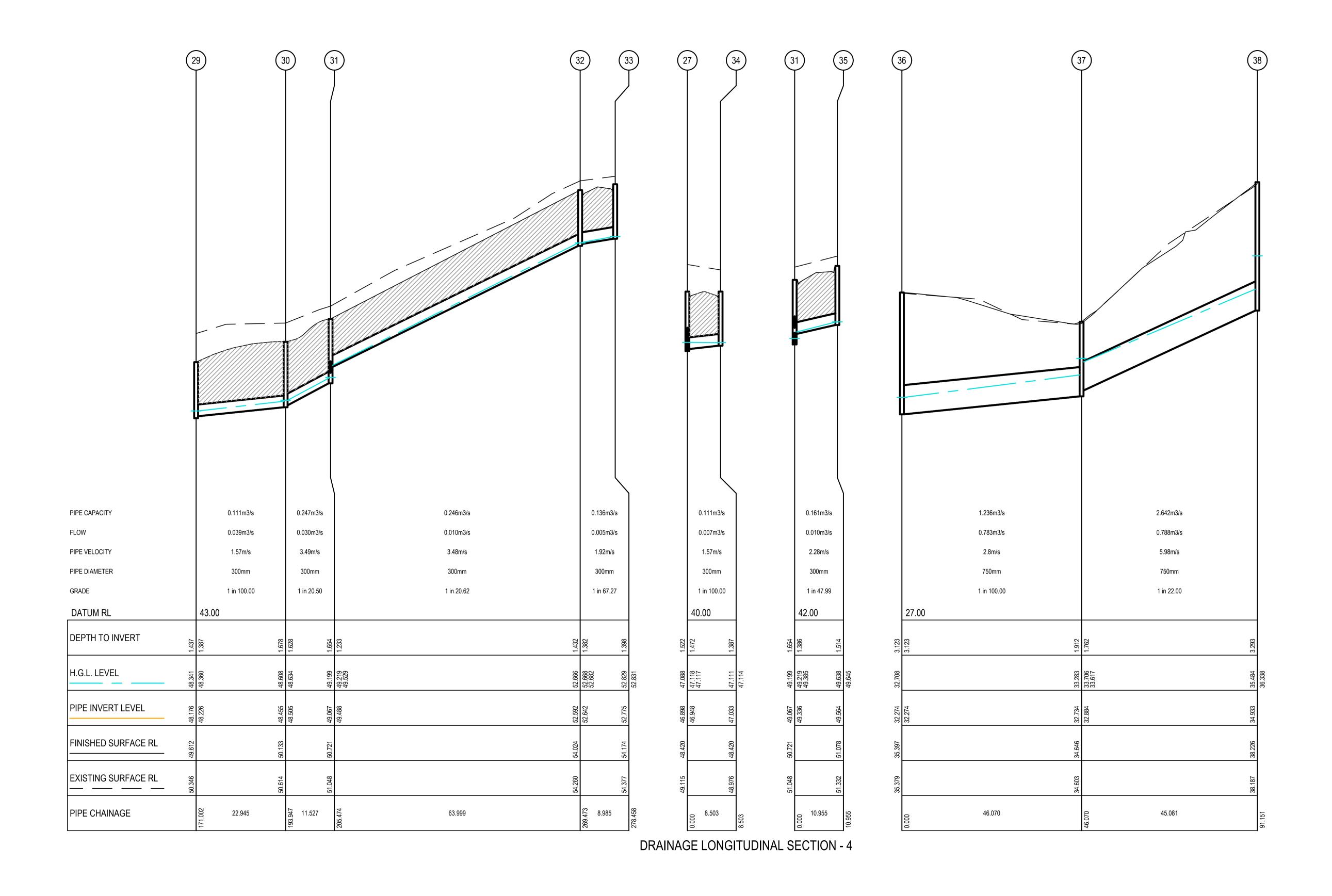
Drainage Longitudinal Sections							
Н	5	0	10	20	30m		
V	0.5			2 41 - 1 : 1000 @ 41 - 1 : 100 @ A			

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✓ISO 9001	Project No.	35753_	5		Scale:	As Shown
AS/NZS 4801 Endorsed	Drawn:	S.B.	Date:	Aug 2022	Date Printed:	2-Dec-22
Intergrated	Designed:	S.B.	Date:	Aug 2022	Level Data:	Ltopo.dgn
✓Management System	Authorised:	G.S.	Date:	Aug 2022	Datum:	AHD



East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R23
Drainage Longitudinal Sections - 3	Revision A
Dramage Longitudinal Scottons	

Sheet 23 of 28



LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CLASS 2 CR BACKFILL

Sheet 24 of 28

	Revision Details							
Revision	Date	Revised Sheets	Descriptions	Authorised				
А	02-12-2022	-	Preliminary Issue	G.S.				

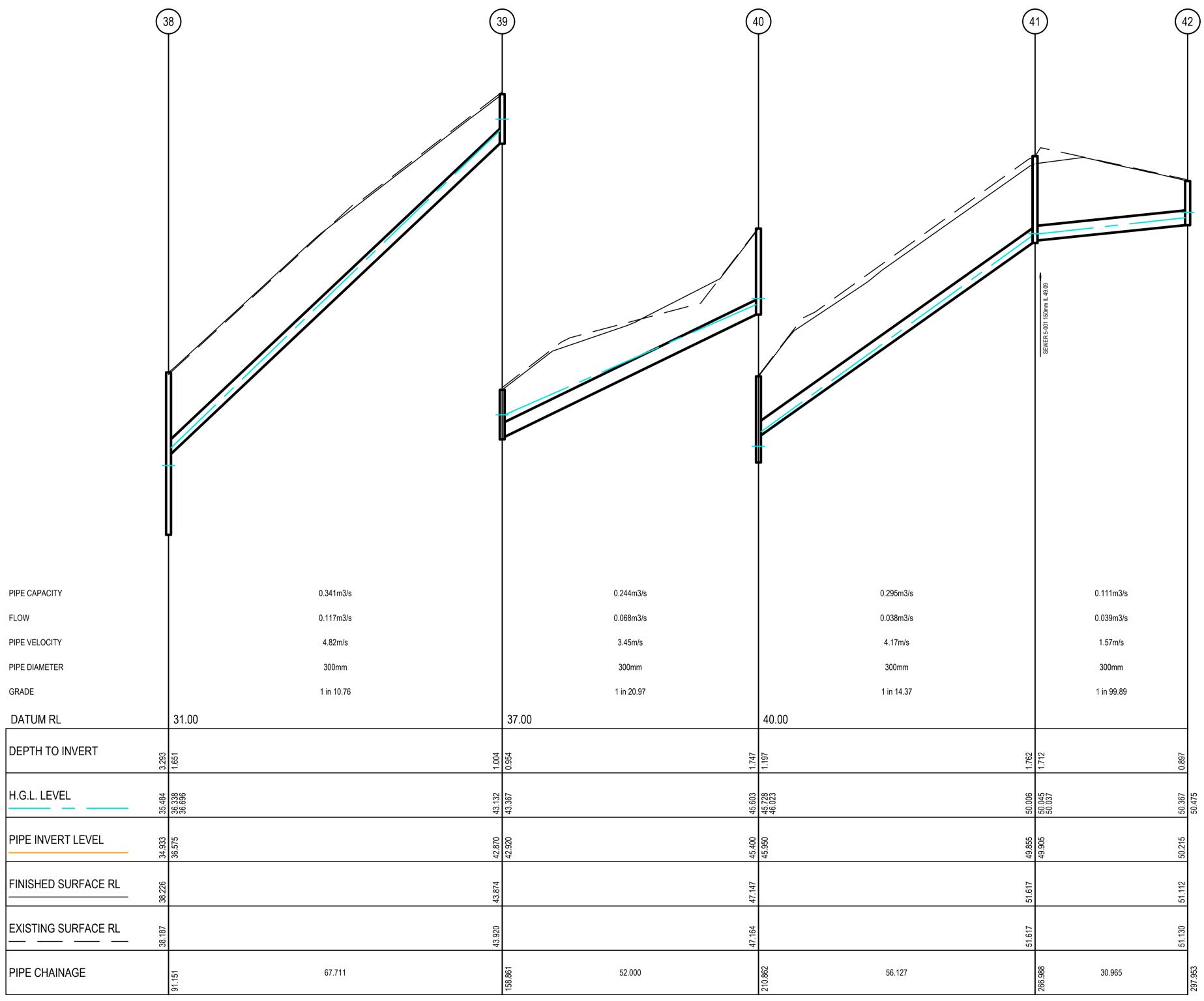
Drainage Longitudinal Sections

Horiz. Scale 1 : 500 @ A1 - 1 : 1000 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3

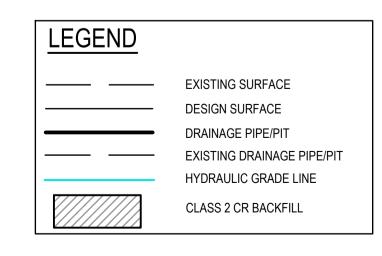
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AS/NZS 4801 Endorsed	Drawn:	S.B.	Date:	Aug 2022	Date Printed:	2-Dec-22
✓Intergrated	Designed:	S.B.	Date:	Aug 2022	Level Data:	Ltopo.dgn
✓Management System	Authorised:	G.S.	Date:	Aug 2022	Datum:	AHD

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✓ISO 9001	Project No.	35753_5)	Scale:	As Shown	
AS/NZS 4801 Endorsed	Drawn:	S.B.	Date: Aug 2022	Date Printed:	2-Dec-22	
Intergrated	Designed:	S.B.	Date: Aug 2022	Level Data:	Ltopo.dgn	
✓ Management System	Authorised:	G.S.	Date: Aug 2022	Datum:	AHD	Suite 201, Level 2 448 St Kilda Road Melbourne Victoria 3004
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East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R24
Drainage Longitudinal Sections - 4	Revision A
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DRAINAGE LONGITUDINAL SECTION - 5



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	Revision Details								
Revision	Date	Revised Sheets	Descriptions	Authorised					
А	02-12-2022	_	Preliminary Issue	G.S.					



Horiz. Scale 1 : 500 @ A1 - 1 : 1000 @ A3 Vert. Scale 1 : 50 @ A1 - 1 : 100 @ A3

Status:	Pre	lir	ni	na	ıry	
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✓ AS/N∠S 4801 ✓ Endorsed	Drawn:	S.B.	Date:	Aug 2022	Date Printed:	2-Dec-2
Intergrated	Designed:	S.B.	Date:	Aug 2022	Level Data:	Ltopo.do
✓ Management System	Authorised:	G.S.	Date:	Aug 2022	Datum:	AHD

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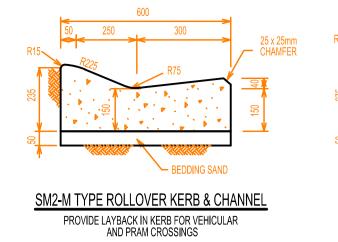
East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 5 135 Great Alpine Road Lucknow	35753_05 R25
Drainage Longitudinal Sections - 5	Revision A

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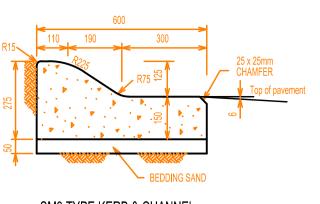
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						DIT COLUED !!				
	PIT	INTERN	NAL (mm)		INLET	PIT SCHEDUL	.E Outlet	ח	 IT	REMARKS
NO.	TYPE	WIDTH	LENGTH	DIAMETER (mm)	INVERT LEVEL (m)	DIAMETER (mm)	INVERT LEVEL	SETOUT RL	DEPTH (m)	NLIMANIO
1	JP	750	900	525	42.192	525	42.192	43.638	1.446	IDM SD420
				375	42.581			43.638	1.446	
2	JP	750	900	525	43.705	525	43.655	45.618	1.962	IDM SD420
3	GP	750	900	525	43.775	525	43.725	45.662	1.937	IDM SD420 WITH V SHAPED GRATE
		7.50	300	300	44.593	323	15.7.25	13.002	1.507	15.11.55 125 17.11.11 5.11.11 25 6.11.112
4	GP	750	900			F2F	42.905	45 612	1 906	IDM SD420 WITH V SHAPED GRATE
				525	43.855	525	43.805	45.612	1.806	
5	GP	600	900	300	44.318	525	44.093	45.773	1.679	IDM SD420 GRATED LID
6	JP	600	900	300	44.802	300	44.709	46.175	1.466	IDM SD420
7	SEP	600	900	300	45.934	300	45.884	47.405	1.521	IDM SD435
8	SEP	600	900			300	46.019	47.405	1.386	IDM SD435
9	JP	600	900	300	42.9	375	42.825	43.796	0.971	IDM SD420
10	JP	600	900	300	46.418	300	46.368	47.331	0.963	IDM SD420
11	JP	600	900	300	46.812	300	46.76	47.685	0.925	IDM SD421
12	JP	600	900			300	47.799	48.719	0.92	IDM SD422
13	JP	600	900	300	47.578	300	47.473	48.53	1.057	IDM SD423
14	JP	600	900	300	50.52	300	50.445	51.444	0.999	IDM SD424
15	JP	600	900			300	53.285	54.226	0.941	IDM SD425
16	EP	600	900	375	40.428			41.815	1.387	EXISTING ENDPIPE
17	SEP	600	900	300	41.896	375	41.606	43.128	1.522	IDM SD435
				300	41.656					
18	SEP	600	900	300	42.861	300	42.811	44.298	1.487	IDM SD435
19	SEP	600	900			300	43.698	45.089	1.392	IDM SD435
20	SEP	600	900			300	41.741	43.128	1.387	IDM SD435
21	EP	600	900	300	38.767			39.671	0.904	EXISTING ENDPIPE
22	JP	600	900	300	41.326	300	40.931	42.715	1.784	IDM SD420
23	JP	600	900	300	41.516	300	41.466	42.754	1.289	IDM SD420
24	JP	600	900		11.510	300	41.706	42.821	1.115	IDM SD420
25	JP	600	900	300	38.156	300	41.700	39.408	1.252	IDM SD420
						200	42.702			
26	SEP	600	900	300	43.877	300	43.782	45.096	1.313	IDM SD435
27	SEP	600	900	300	47.197	300	46.898	48.42	1.522	IDM SD435
				300	46.948					
28	JP	600	900	300	47.936	300	47.886	49.171	1.284	IDM SD420
29	JP	600	900	300	48.226	300	48.176	49.612	1.437	IDM SD420
30	SEP	600	900	300	48.505	300	48.455	50.133	1.678	IDM SD435
31	SEP	600	900	300	49.488	300	49.067	50.721	1.654	IDM SD435
				300	49.336					
32	SEP	600	900	300	52.642	300	52.592	54.024	1.432	IDM SD435
33	SEP	600	900			300	52.775	54.174	1.398	IDM SD435
34	SEP	600	900			300	47.033	48.42	1.387	IDM SD435
35	SEP	600	900			300	49.564	51.078	1.514	IDM SD435
36	JP	900	900	750	32.274			35.397	3.123	IDM SD420
37	JP	900	900	750	32.884	750	32.734	34.646	1.912	IDM SD420
38	JP	900	900	300	36.575	750	34.933	38.226	3.293	IDM SD420
39	JP	600	900	300	42.92	300	42.87	43.874	1.004	IDM SD420
40	JP	600	900	300	45.95	300	45.4	47.147	1.747	IDM SD420
41	JP	600	900	300	49.905	300	49.855	51.617	1.762	IDM SD420
42	JP	600	900			300	50.215	51.112	0.897	IDM SD420
44	J.	000	300			300	50.213	J1.112	0.037	10191 30420



N.T.S.



FOR CENTRAL MEDIAN

N.T.S.

KERB AND CHANNEL DETAILS

ENGRAVE THE FOLLOWING LETTERS 75 HIGH IN THE FACE OF THE KERB. FOR EACH CONDUIT/SERVICE PASSING BELOW THE KERB WATER "W"
GAS "G"
HOUSE DRAIN "HD"
TELSTRA "T"
ELECTRICAL "E"

	Revision Details								
Revision	Date	Revised Sheets	Descriptions	Authorised					
А	02-12-2022	-	Preliminary Issue	G.S.					

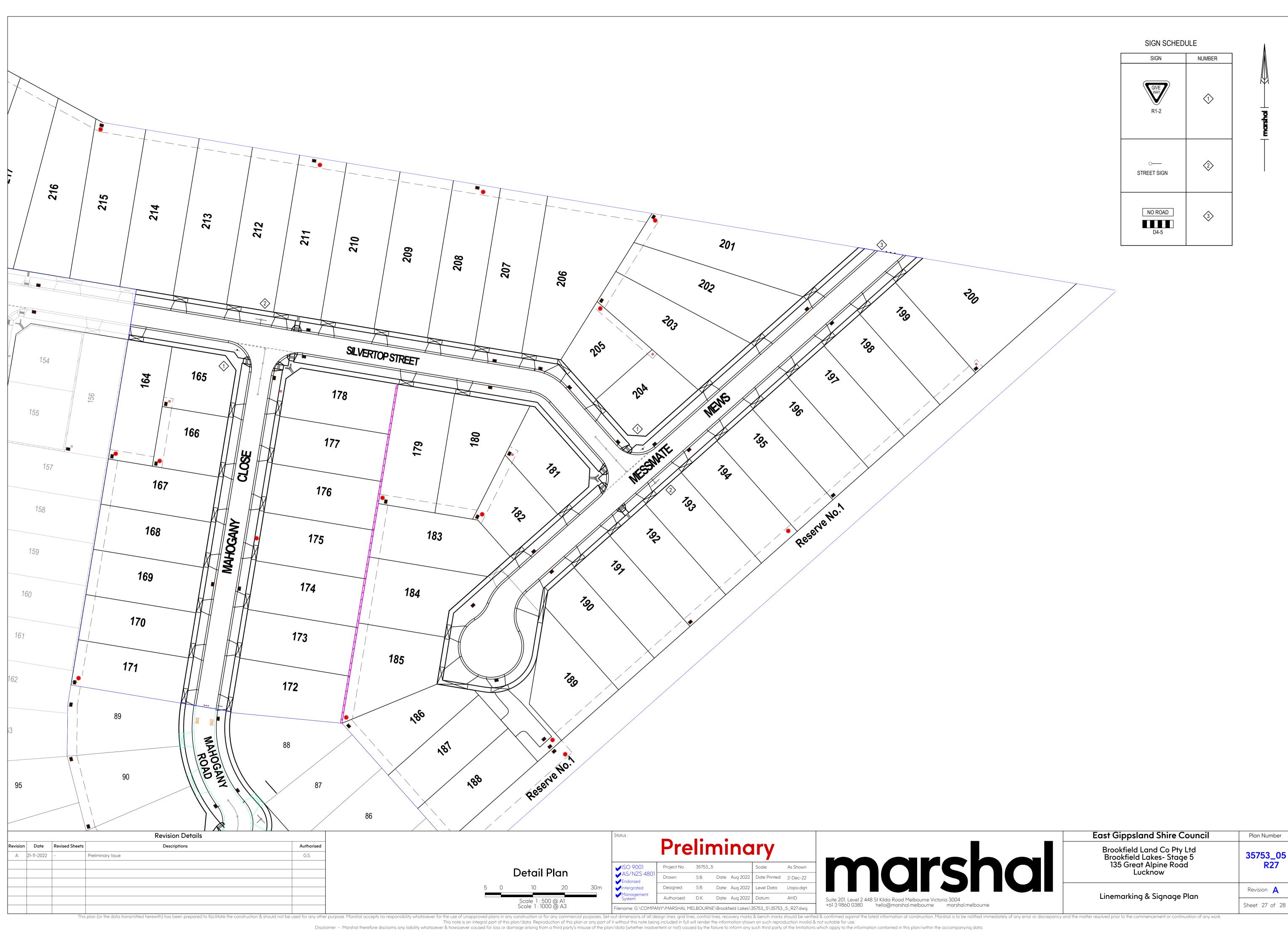
	Pre	limi	nary
✓ISO 9001	Project No.	35753_5	Scale:

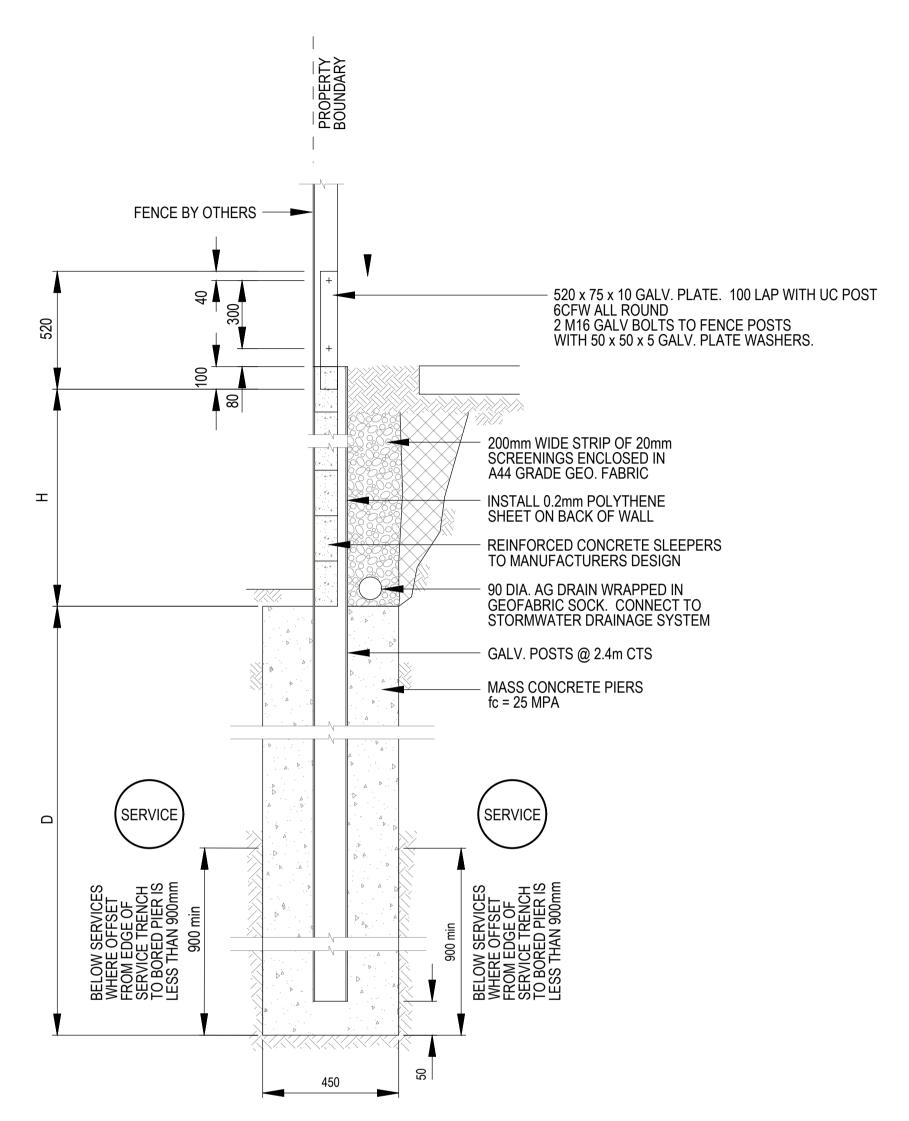
	✓ISO 9001	Project No.	35753_5	i		Scale:	As Shown
	AS/NZS 4801 Endorsed	Drawn:	S.B.	Date:	Aug 2022	Date Printed:	2-Dec-22
	Intergrated	Designed:	S.B.	Date:	Aug 2022	Level Data:	Ltopo.dgn
	✓Management System	Authorised:	G.S.	Date:	Aug 2022	Datum:	AHD
	Filename: G:\COMPA	NY\MARSHAL ME	EL BOURNI	-\Brook	field Lakes\3	35753 5\35753	5 R26.dwa



East Gippsland Shire Council	Plan Number
Brookfield Land Co Pty Ltd Brookfield Lakes- Stage 4 135 Great Alpine Road Lucknow	35753_05 R26
Drainage Pit Schedule & Typical Details	Revision A
Typical Details	Sheet 26 of 28

Sheet 26 of 28





REINFORCED CONCRETE SLEEPER RETAINING WALL DETAILS

N.T.S.

Authorised

G.S.

*REFER TO MARSHAL DRAWINGS FOR LOCATIONS OF RETAINING WALLS.

Revision Details

Descriptions

evision Date Revised Sheets

Preliminary Issue

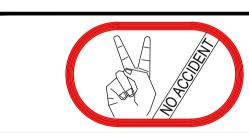
SLEEPER RETAINING WALL SCHEDULE

RETAINING	SLEEPERS	UPRI	GHTS	FOOTINGS
HEIGHT, H (mm)	SPECIFICATION	SPECIFICATION	SPACING (mm)	D (mm)
0-600	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 14	2400	900*
601-800	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 14	2400	1200*
801-1000	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 14	2400	1500*
1001-1200	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 14	2400	1800*
1201-1400	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 18	2400	2100*
1401-1600	MANUFACTURER DESIGN & SPECIFICATIONS	150 UB 18	2400	2400*
1601-1800	MANUFACTURER DESIGN & SPECIFICATIONS	200 UB 23	2400	2700*
1801-2000	MANUFACTURER DESIGN & SPECIFICATIONS	200 UB 23	2400	3000*
2001-2200	MANUFACTURER DESIGN & SPECIFICATIONS	200 UB 29.8	2400	3300*
2201-2400	MANUFACTURER DESIGN & SPECIFICATIONS	200 UB 29.8	2400	3600*

*OR 900mm BELOW ADJACENT SERVICES. WHERE THE OFFSET FROM EDGE OF SERVICE TRENCH TO BORED PIER IS LESS THAN 900mm WHICHEVER IS THE GREATEST.

CONCRETE NOTES:

- 1. ALL CONCRETE BASED ON fc = 25 MPa NORMAL CONCRETE MIX
- 2. CONCRETE WORKS TO BE INSTALLED AND FORMED TO SATISFY A CLASS 2 FINISH IN ACCORDANCE WITH AS3610 - 1995 'FORMWORK' CONCRETE UNLESS NOTIFIED OTHERWISE
- 3. CONCRETE SLUMP TO BE 80mm WITH A MAXIMUM AGGREGATE SIZE = 20mm
- 4. ALL CONCRETE TO BE COMPLIANT WITH THE MIX SUBMITTED TO BE DURABLE TO SATISFY CONDITIONS ASSOCIATED WITH BELOW GROUND CONDITIONS, EXPOSED TO WATER RUNOFF, INGRESS AND IF REQUIRED ADD A WATERPROOFING AGENT TO SATISFY CLIENT AND OR PROJECT SPECIFICATIONS REQUIREMENTS.
- 5. MAXIMUM CONCRETE BASE SHRINKAGE STRAIN SHALL NOT EXCEED 600um AT 56 DAYS.
- 6. CONCRETE SHALL BE THOROUGHLY COMPACTED IN THE FORMS BY MEANS OF MECHANICAL VIBRATION.
- 7. CONCRETE THICKNESS NOMINATED ARE MINIMAL STRUCTURAL REQUIREMENTS.
- 8. FORMWORK SHALL BE DESIGNED, CONSTRUCTED AND STRIPPED IN ACCORDANCE WITH AS3610.
- 9. THE DESIGN CERTIFICATION CONSTRUCTION AND PERFORMANCE OF THE FORMWORK, INCLUDING AND STRIPPING AND BACKPROPPING SHALL BE THE RESPONSIBILITY OF THE FORMWORK SUB-CONTRACTOR.
- 10. ALL REINFORCEMENT TO BE 'N' TYPE HOT ROLLED DEFORMED BARS IN ACCORDNACE WITH AS4671 AND BE GRADE DN500N.
- 11. ALL REINFORCEMENT SHALL BE SECURELY SUPPORTED ABD MAINTAINED IN CORRECT POSITION DURING CONCRETING.
- 12. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER. ALL WELDING SHALL BE IN ACCORDANCE WITH AS1554.3.
- 13. ALL CONCRETE WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3500 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- 14. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.
- 15. A GEOTECHNICAL ENGINEER IS TO BE ENGAGED TO CONFIRM THAT THE ASSUMED ALLOWABLE BEARING PRESSURE OF 150kPA IS ACHIEVED FOR THE BASE FOUNDATION MATERIAL ANY VARIABLE BELOW THE ASSUMED BEARING PRESSURE SHALL BE REPORTED TO MA CIVIL FOR DESIGN REVIEW AND FURTHER ADVICE PRIOR TO RETAINING WALL WORKS COMMENCING. STEELWORK:
 - CORROSION PROTECTION OF STEEL WORK SHALL BE AS FOLLOWS:-STEELWORK PERMANENTLY EXPOSED TO WEATHER OR AGGRESSIVE ENVIRONMENTS SHALL BE HOT DIPPED GALVANISED.



THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR AND AT ALL TIMES PROVIDE A SAFE WORKING ENVIRONMENT IN THE VICINITY OF THE SITE OF WORKS IN FULL COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.

IN ACCORDANCE WITH CLAUSE 15 OF AS2124-1992, THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT 2004, INCLUDING SAFETY HELMETS, SAFETY BOOTS, EAR AND EYE PROTECTION, WHERE APPROPRIATE.

CONTRACTOR TO NOTE



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. EXTREME CARE TO BE TAKEN AT ALL TIMES WHEN

BORING NEAR OR ACROSS EXISTING SERVICES.

marsha

Brookfield Land Co Pty Ltd Brookfield Lakes - Stage 5 135 Great Alpine Way Lucknow

35753_5 **R028**

Plan Number

Retaining Wall Details

East Gippsland Shire Council

Revision 🛕 Sheet 28 of 28

Preliminary

Filename: \$FILE\$

✓ISO 9001	Project No.	35753_	_5	Scale:	As Shov
✓ AS/NZS 4801 ✓ Endorsed	Drawn:	S.B.	Date: Aug 2022	Date Printed:	\$DATE\$
✓Intergrated	Designed:	S.B.	Date: Aug 2022	Level Data:	Ltopo.do
✓ Management System	Authorised:	G.S.	Date: Aug 2022	Datum:	AHD

Schedule 7: Drawing Schedule

Filename: \$FILE\$

Drawing No.	Sheet No.	Title
547-2009-P-S01	1	Notes, Schedules & Locality Plan
547-2009-P-S02	2	Detail Plan
547-2009-P-S03	3	Longitudinal Section - 1
547-2009-P-S04	4	Longitudinal Section - 2
547-2009-P-S05	5	Manhole layout details

MELWAYS: 628 J5



General Notes:

- 1. Only contractors accredited by East Gippsland Water to SC1, SC2, Safety: SC7, SC9, SC10 & R3 shall be eligible to construct these works.
- 2. Only products approved and catalogued by the Water Agency shall be used.
- Works must be to constructed according to the MRWA edition of the WSAA Sewerage code of Australia WSA 02-2014-3.1.
- 4. The design consultant is responsible for the design and coordination of the works. Any problem arising during construction shall be directed to the consultant.
- 4a. For Construction of Maintenance Structures please refer to EGW Technical Bulletins: TB001 for Maintenance Holes & TB006 for Maintenance Shafts & EGW standard drgs SEW-1301-V & SEW-1308-V
- 4b. In paved areas, maintenance hole covers should be flush with surface. In non-trafficable areas, maintenance hole covers are to sit 75mm above FSL. The ground around the maintenance hole shall be built up and graded to tie into the surrounding FSL.
- 4c. Step Irons shall be installed for all MH's greater than 5m deep, and 31. platforms for all MH's greater than 6m deep. Where step irons are installed, the top 2m of the MH shall have no step irons.

Survey, Set Out and Asset Recording

- All contours and levels are in metres to the Australian height datum (A.H.D.)
- All co-ordinates shown are to map grid of Australia (MGA).
- Chainages shown on detail plans are discontinuous at maintenance structures. Chainages shown on long section sheets are continuous.
- Coordinates are to sewer line intersection point unless otherwise shown. Before commencement of work, the contractor must complete a level check between all TBM's to verify level values.
- 10. TBM's and control points are to be maintained and protected at all times during construction. Should any marks be disturbed, the contractor will immediately notify the consultant to arrange re-instatement at the contractors expense. **Property Connections**
- 11. Number of lots to be sewered: 55 lots
- 12. All property connections to be DN100 unless otherwise indicated.
- 13. Properties requiring boundary traps are indicated in the detailed plans. The remainder do not require boundary traps.
- 14. Branch tie distance shown on detail plan are from approved subdivision survey pegs. Branch ties for future lots are shown as a chainage. (Ch) Distance is from the downstream sewer structure.
- 15. Invert level of the property connection point is shown opposite the branch position.
- 16. Where a Spur Branch connects to a shaft, both property connections are considered to be shaft connections

Earthworks and Retaining Walls:

- 17. In areas subject to earthworks, construction of sewers shall not commence until earthworks has been completed unless written approval has been given by the Water Authority. **Embedment**
- 18. Embedment shall be Type A (refer MRWA-S-202) unless otherwise specified on the long section.

- 19. Selection and compaction of trench backfill material shall be in accordance with the Water Agency adopted version of MRWA specification no 04-03.
- 20. Refer to Long Section drawings for backfill requirements.

Compaction Testing

- 21. Test results shall be provided to the superintendent prior to practical completion / acceptance of works.
- 22. The contractor is required to undertake all testing of fill compaction in accordance with the Water Agency adopted version of the MRWA Backfill Specification 04-03. Plan to be provided to the Water Agency with test locations and depth of test. **Work on Live Sewers:**
- 23. All works on live sewers must be carried out by a water company accredited contractor.
- 24. All existing sewers must be plugged to stop gas emissions prior to any connections being made to these sewers.
- 25. To enable connections to live assets or any work on live assets, the contractor shall submit the appropriate forms to the superintendent at least 3 working days prior to any works on live sewers.
- 26. The contractor is not permitted to break into an existing live pipeline, enter a live sewer or remove the cover to a live maintenance structure unless authorised by the Water Agency.
- Prior to commencement of works on site, the contractor must ensure that all matters relating to the Occupational Health and Safety Act 2004 and Occupational Health 2017, have been and will be complied with.

Testing:

- 28. The contractor is to give a minimum of two (2) days notice to the superintendent and Water Agency prior to the testing being undertaken.
- Testing is to be undertaken in the presence of superintendent.
- 28a. The Water Agency are to provide CCTV and contractor to provide vacuum testing. These tests shall be undertaken by agreement with the Water Agency (fortnightly or monthly).
- 28b. Ovality testing to be completed to MRWA specification 13-01.

Cultural Heritage Requirements

- 29. The contractor is to keep a copy of the approved cultural heritage management plan on site at all times during works. (AAV Management Plan 10290 Heritage Insight).
- **Environmental Management Plan:** 30. On commencement of construction works the contractor must comply with the recommendations of the EPA publication "construction techniques for sediment pollution
- control" (publication no 275 1991). Prior to the commencement of work, the contractor is to submit a site environmental
- management plan to the Catchment Management Authority. (CMA) All trees and vegetation are to be protected unless otherwise indicated for removal. The extent of any vegetation removal shall be confirmed on site with the superintendent and local council prior to commencement, and in accordance with any planning permits. Any removal shall be documented.

33. All areas containing creek vegetation, trees and revegetated areas near the construction zone are to be fenced off during the works with secure and highly visible material such as para-webbing fencing.

34. Ensure all machinery, equipment and/or footwear entering the site is weed and pathogen free.

Boring:

- 35. Boring shall be carried out where specified in accordance with WSA 02-2014 MRWA Edition (Version 2) specifications and standard drawing MRWA-S-208 - Trenchless Construction.
- 36. Bore annulus to be grouted with in accordance with MRWA-S-208 -Requirement 3 - General Construction Requirements. Grouting mix is to consist of 1 : 1 (Sand/Cement) with a 1 : 0.67 (Water/Cement) ratio by weight, using fine well-rounded sand. Plasticisers may be used.
- 37. Sewer main to be supported and levelled to design garde using MRWA approved Heavy Duty plastic centralisers located in accordance with MRWA-S-208.
- 38. Refer MRWA-S-208 for General Bore Arrangement Detail. Schedule 3: Service Offsets (m) and Locations:

Schedule 6: Water Seals, Boundary Traps and Syphons

Structure Type	Boundary Trap	Water Seals	Syphons
N/A			

Schedule 1: New Pipe

Pipe Size	Pipe Type	Jointing	Length (m)	Pipe Class	Standard					
DN150	UPVC-DWV	RRJ	930	SN8	WSA PS 230					

Schedule 2: Property Connections

Connection	Type	Jump Up Flexible									
Type	1a	1b	2	4a	4b	S	4S	B	4B	OB	Couplings, ie: "F"
Quantities	9	-	34	2	-	6	-	4	_	-	-

For Property Connection types, limitations & situations of use refer standard drg MRWA-S-301, Fig 301-A

For Property Connections Type 1 - refer standard drgs MRWA-S-302, Type 2 - refer MRWA-S-303, Type 4 - refer MRWA-S-304

Schedule 4: Maintenance Structures (other than Maintenance Holes) Inspection Shafts (IS), Maintenance Shafts (MS) and Maintenance Chambers (MC):

Maintenance Structure ID	Type - (IS/MS/MC)	Cover Class	Depth to Invert (mm)	Shaft Connections	Comments/ References (Offsets/Details)
BL5-6IS	IS	В	2138	-	-
BL5-9IS	IS	В	1554	-	-
BL5-10IS	IS	В	1384	-	-
BL4-14IS	IS	В	1419	-	-
BL4-17IS	IS	В	1404	-	-

Schedule 5: Maintenance Holes

Maintenance Hole ID	MH Shaft Type (GRP/PP (Plastic) / Concrete)	MH Top Type (Conical/Flat)	Construction Method (In-situ/ Pre-cast)	Cover Class	Internal Diameter (mm)	Min. Wall Thickness (mm)	Depth to Invert (mm)		Drops	Ladder (L) Step Irons (S) Landing (Ld)	Corrosion Protection (Coating / PE or PVC Lining)	Shaft Re-inforcement	Comments (Offsets / Details) ** = MH CL offset
-	-	-	-	-	-	-	-		-	-	-	-	
BL5-1	N32 Concrete	Conical	Pre-cast	В	1050	150	2369		-	-	-	-	-
BL5-2	N32 Concrete	Conical	Pre-cast	В	1050	150	3847	1 x 15	50/1 x 100	-	-	-	Refer Manhole Details
BL5-3	N32 Concrete	Conical	Pre-cast	В	1050	150	1536		-	-	-	-	-
BL5-4	N32 Concrete	Conical	Pre-cast	В	1050	150	2330		-	-	-	-	-
BL5-5	N32 Concrete	Conical	Pre-cast	В	1050	150	2720		1 x 100	-		-	-
BL5-6	N32 Concrete	Conical	Pre-cast	В	1050	150	1564		-	-		-	-
BL5-7	N32 Concrete	Conical	Pre-cast	В	1050	150	2478	1 x 15	50/1 x 100	-		-	Refer Manhole Details
BL5-8	N32 Concrete	Conical	Pre-cast	В	1050	150	2029		-	-		-	-
BL5-9	N32 Concrete	Conical	Pre-cast	В	1050	150	1760		1x 100	-		-	-
BL5-10	N32 Concrete	Conical	Pre-cast	В	1050	150	1414		-	-		-	-
BL5-11	N32 Concrete	Conical	Pre-cast	В	1050	150	2719	-		-		-	-
BL5-12	N32 Concrete	Conical	Pre-cast	В	1050	150	2516		-	-		-	-
BL5-13	N32 Concrete	Conical	Pre-cast	В	1050	150	2519		1 x 150	-		-	Refer Manhole Details
BL5-14	N32 Concrete	Conical	Pre-cast	В	1050	150	1433	-		-		-	-
BL5-15	N32 Concrete	Conical	Pre-cast	В	1050	150	1390		1 x 100	-		-	-
BL5-16	N32 Concrete	Conical	Pre-cast	В	1050	150	1391		-	-		-	-
BL5-17	N32 Concrete	Conical	Pre-cast	В	1050	150	1367		-	-		-	-

Schedule 3: Service Offsets (m) and Locations:

SERVICES OFFSET SCHEDULE								
ROAD NAME	ROAD RESERVE WIDTH	GAS	WATER	NBN	ELECTRICITY	SEWER		
MESSMATE MEWS	16.00	2.10 E	2.60 E	2.00 W	2.50 W	-		
SILVERTOP STREET	16.00	2.10 N	2.60 N	2.00 S	2.50 S	-		
MAHOGANY CLOSE	16.00	2.10 E	2.60 E	2.00 W	2.50 W	-		

PRELIMINARY

AUTH REF 547-2009-P Designed S.Baral 35753/5 MM REF: e: 01/11/2022 Melway 628 J5 S.Baral Reference te: 01/11/2022 Preliminary Issue 02/12/202: G.S D.Kennedy D.Kennedy Authorised Rev Description Approved Date





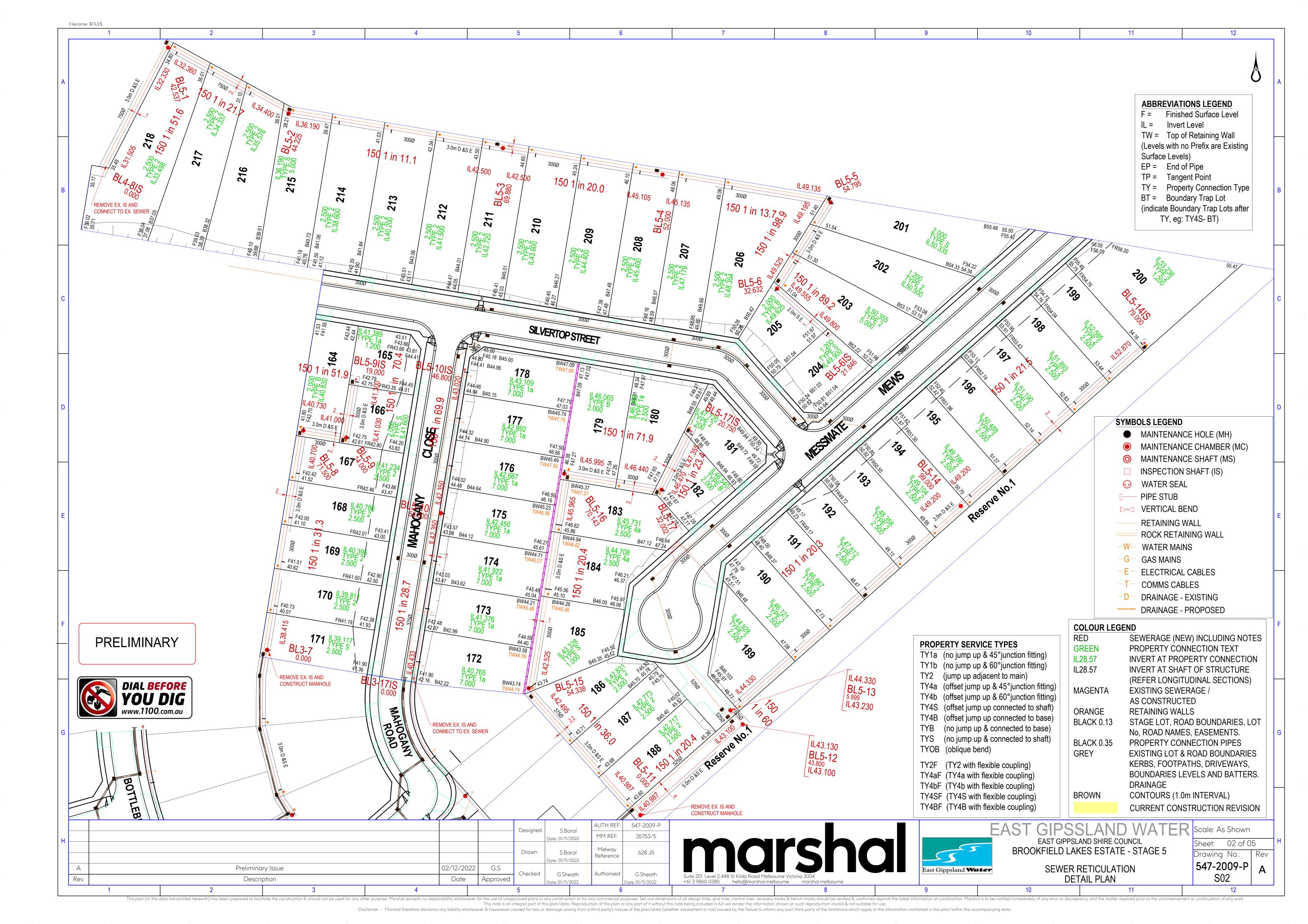
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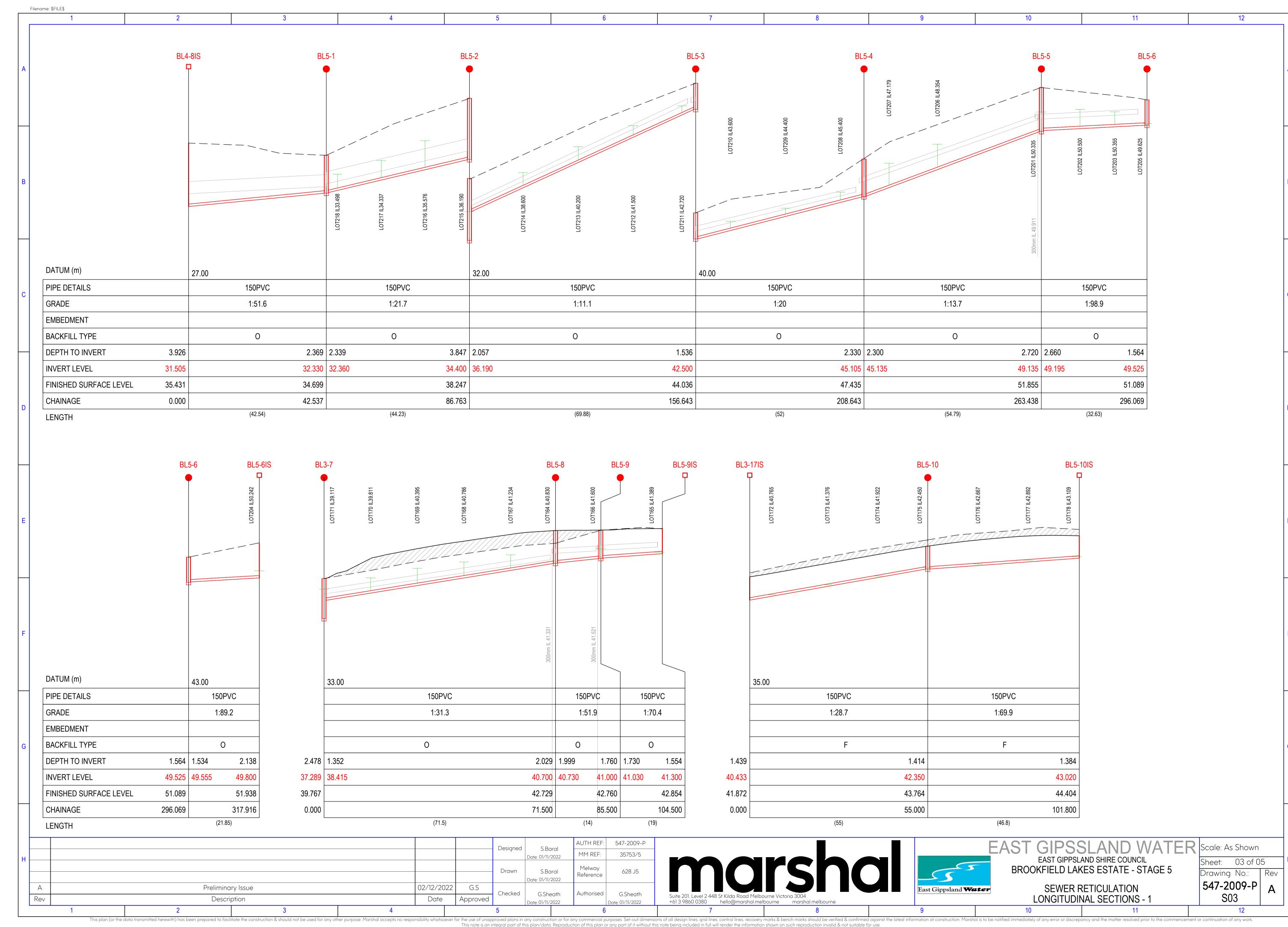
SEWER RETICULATION NOTES, SCHEDULES & LOCALITY PLAN

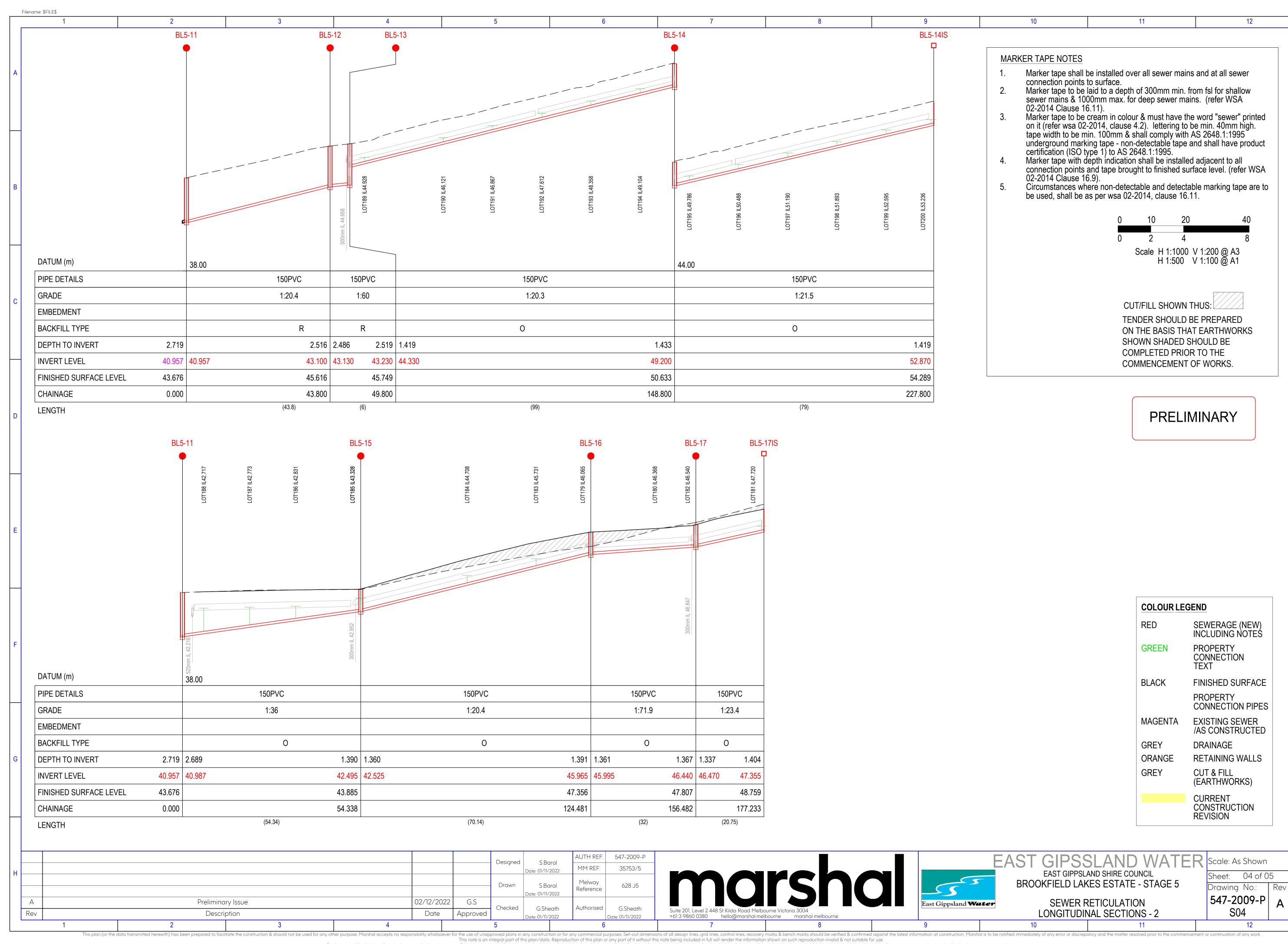
BROOKFIELD LAKES ESTATE - STAGE 5

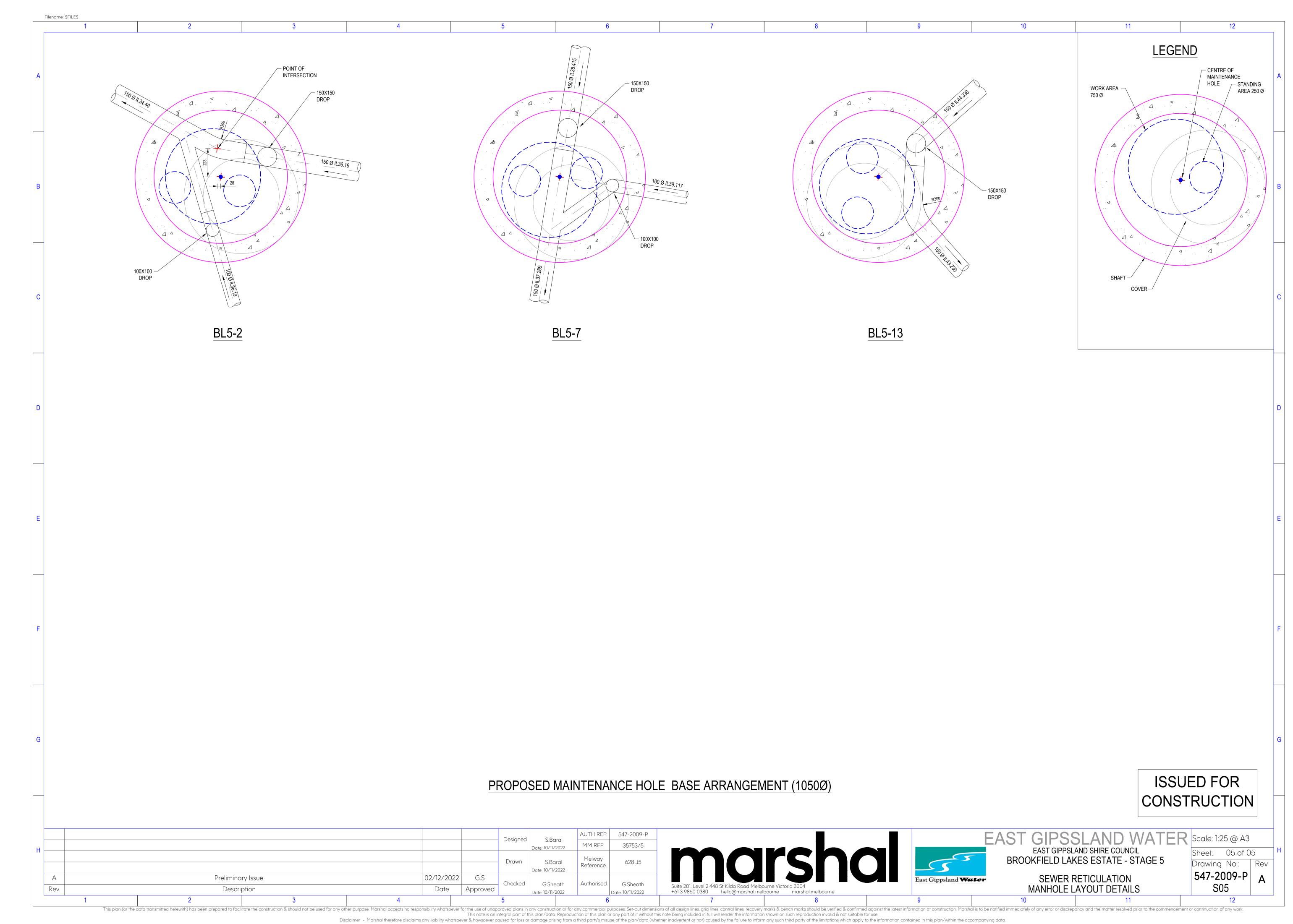
Sheet: 01 of 05 Drawing No.: 547-2009-P A

This note is an integral part of this plan/data. Reproduction of this plan or any part of it without this note being included in full will render the information shown on such reproduction invalid & not suitable for use

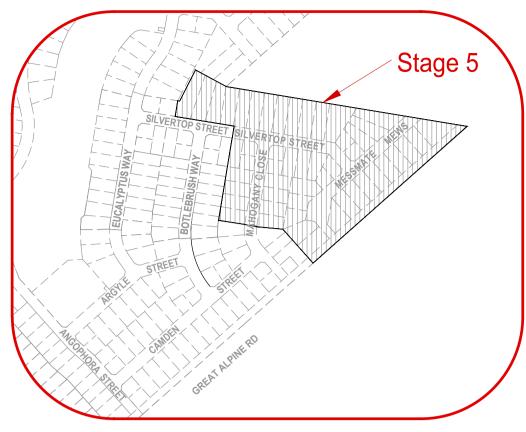








113 m RESIDENTIAL 1418 kPa



LOCALITY PLAN

SCALE: **MELWAYS**:

1:10,000 628 J5



WARNING

BEWARE OF UNDERGROUND SERVICES THE LOCATION 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.

WARNING

BEWARE OF ASBESTOS SOME UNDERGROUND SERVICES MAYBE CONSTRUCTED FROM ASBESTOS CONTAINING MATERIAL. CONTACT THE SUPERINTENDENT FOR INSTRUCTIONS ON HOW TO MANAGE ANY POTENTIAL ASBESTOS HAZARD

FOR THE DURATION OF PROCLAIMED WATER RESTRICTIONS, THE CONTRACTOR SHALL CONFORM WITH THE RESTRICTIONS AND ANY OTHER WATER CONSERVATION REQUIREMENTS IMPOSED BY THE WATER AGENCY.

General Notes:

- 1. Only contractors accredited by East Gippsland Water to WC1 & RC1 shall be eligible to construct these works.
- 2. Only products approved and catalogued by the Water Agency shall be used.
- 3. Works must be constructed according to WSA 03- 2011 MRWA edition. The Contractor shall ensure that they are conversant with all current revisions, amendments and updates that the relevant Water Agency has made to their standards.
- 4. DW assets shall only be constructed after deeper assets affecting the water mains have been constructed (eg: sewerage & drainage assets).
- 5. This design is to be read in conjunction with road and drainage plans.
- 6. The Contractor shall obtain a road opening permit for any works within the road reserve and comply with all requirements of the road owner.

Survey, Set Out and Asset Recording

- 7. Temporary Bench Marks (TBM) for the set out of works to the Australian Height Datum (AHD) are provided in the design drawings.
- 8. All levels are in metres to AHD.
- 9. All co-ordinates are in metres to the Map Grid of Australia (MGA 55-94)
- 10. The Contractor is directly responsible for ensuring the project set out is consistent with the design. Should actual site conditions conflict in any way with that documented, the Contractor shall contact the Superintendent for clarification before proceeding.
- 11. The Contractor is to engage a suitably qualified and experienced Surveyor to undertake asset recording of the work. All surveyor works and data recording shall be undertaken in accordance with the MRWA survey manual.
- 12. All specific pipe materials (eg: PVC-M) shall be indicated in the As Constructed information

Products and Materials (Refer Table 1 & 2)

13. No additional notes.

Appurtenances (Fittings- Refer Table 3)

14. Fitting details including DI fittings, Hydratech hydrants etc. to be in accordance with EGW tech bulletins. Hydratech Hydrants to be used as per EGW Technical Bulletin #002. Unless noted otherwise, fittings on PVC mains to be DI and fittings on PE mains to be PE. All valves are to be below ground & inline as per std drawings MRWA-W-300, 301 & 302.

Water Main Alignment, Trenching & Cover (Refer Table 5 for

- 15. Offsets of mains from property boundaries shall be; min 600mm (mains < DN100) and min 1m (mains \ge DN100).
- 16. All water mains shall pass over drains and sewers unless shown otherwise in the design drawings.
- 16a. Mains to have a minimum cover of 600mm in accordance with EGW requirements.
- 16c. For typical sections refer MRWA-W-202 Fig 202-A (Typical 2 Pipe shared trench) and MRWA-W-201 Fig 201-A & 201-B.

Embedment

- 17. Where Trench Stops & Bulkheads are required, Cement Stabilised Embedment shall be used as per MRWA-W-203, Type B, Table 203-B. Item I.
- 17a. Unless notesd otherwise Type A Embedment to be used as per MRWA-W-203 (Type A).

Backfill

- 18. Trafficable backfill shall be completed as per MRWA-W-201, Table 201-A and the current version of the MRWA Backfill Specification
- 19. Non trafficable backfill shall be completed as per_MRWA-W-201, Table 201-B and the current version of the MRWA Backfill Specification.

Thrust Restraint (Refer Table 6)

- 20. Thrust restraints have been designed on the basis of the AHBP (ground strength) nominated in TABLE 6. The Contractor shall confirm the actual ground conditions and discuss with the Superintendent any ground conditions which are found to be different to that nominated. INLINE restraints will require reinforcement (as per MRWA-W-205 Fig A-H to A-K). PLAIN restraints will not requrie reinforcement. (as per MRWA-W-205 Fig A-A to A-D).
- 20a. Trench Stops can be either Earthwork or Bagged as per MRWA-W-209 Details C-F. Locations shown on Drg W01, Table 3 and on Detail Plans.
- 20b. Concrete Bulkhead as per MRWA-W-209 Details A & B. Locations shown on Drg W01, Table 3 and on Detail Plans.
- 20c. Thrust restraints for PE pipe as per MRWA-W-205A 205A-L.

Property Services

21. All property services to be wrapped in tracer wire.

Connections (All types)

- 22. All property service connections to new residential ≤ DN150 PVC reticulation mains are to be completed using pretapped connectors.
- 23. All property service connections to new residential ≥ DN225 to DN300 PVC or ≤DN355 PE reticulation mains to have minimum 500mm separation between tappings.

Other Services (Ref- Table 5 & 7)

- 24. To receive the most up to date information prior to construction, "Dial before you Dig" shall be undertaken to aid in the location of other services. Other services shall be carefully located prior to full excavation at the contractor's cost. Any clashes of proposed new works with other assets shall be reported to the Superintendent immediately for clarification.
- 25. Clearances to other services shall be as per Table 7 and Table 5.5 of WSA03- 2011 MRWA edition. These clearances shall apply to surface covers as well as underground assets.

Earthworks and Retaining Walls:

26. In areas subject to earthworks, construction of water assets shall not commence until earthworks and retaining walls has been completed unless written approval has been given by the Water Authority.

Testing, Asset Acceptance and Live Connections

- 27. Post construction activities of DW such as swabbing, water quality testing, pressure testing and chlorination shall be carried out in accordance with WSA03-2011 MRWA edition and the MRWA Water Quality Compliance Specification. All test results shall be documented and reported to the Superintendent.
- 28. The Water Agency shall be notified in writing 2 full working days in advance of testing being undertaken.
- 29. Both ends of DW main to meter property services shall be inspected by the Water Agency. The Water Agency shall be notified in writing 2 full working days in advance of this inspection being carried out.
- 30. N/A
- 31. The Water Agency shall be notified in writing 10 full working days in advance of connection to the live network being undertaken. Shut down work shall be as short as practical and scheduled to commence at 9am on working days with completion to occur no later than 4pm. In industrial and commercial areas, the impact on business shall be considered and it may be necessary to carry out the work outside normal working hoursAlso refer to EGW Standard Operating Procedure SOP 038 (Planned Shutdowns).
- 32. Valves connecting new assets to the Water Agency's live system shall not be operated by the Contractor.

33. Refer MRWA-W-210 Notes G & H for grouting of annulus for bored sections.

TABLE 7 Vertical Clearances

TABLE 7. Voludal Glodianoco		
Existing or proposed	Minimum vertical	Existing or proposed
Service	clearance (mm)	Service
Water mains ≤ DN375	150	Electricity conduits and cables
Water mains >DN375	300	Stormwater drains & pits
Gas mains	150	Sewers - gravity
Teleco conduits and cables	150	Sewers - pressure & vacuum

- 500 ewers - gravity 300 ewers - pressure & vacuum
- Vertical clearance between water mains shall depend on the larger main diameter. - Water mains shall cross over sewers and drains unless shown otherwise
- Maintain additional clearance from High Voltage electrical cables to allow for a protective barrier and marking.

TABLE 1. New Pipe Schedule

New Work - PVC Drinking Main						
Size (DN)	Туре	Series	Class	Pressure Rating	Joint Type	Length
100	PVC-M	2	PN16	PN16/SDR11	RRJ	142.2
150	PVC-M	2	PN16	PN16/SDR11	RRJ	127.7

	New Work	- PE	Drinki	ng Main		
th	Size (DN)	Туре	Class	Pressure Rating	Joint Type	Length
2	125	PE100	PN16	PN16/SDR11	BW	172.4
7	180	PE100	PN16	PN16/SDR11	BW	161.4
be	25	PE100	PN16	PN16/SDR11	BW	Property Services
al						

BW = Butt Welded (Electrofusion couplings are only to be used in exceptional circumstances where specific approval has been requested from, and granted by, EGW).

TABLE 2. Pipe Material Schedule

MATERIAL	Reference	MATERIAL	Reference	
PVC-M	WSA-PS-209	PE (retic & submain)	WSA-PS-207	
PVC-O	WSA-PS-210	PE (property services)	WSA-PS-215	

TABLE 3 Hydrant & Washout Schedule

IADLE 3. Hyura	ADEL 3. Hydrant, & Washout Schedule							
Main Size	Fitting Type	Ownership	Location	Street	Location			
150	WASHOUT	DW - EGW	End of Line	MESSMATE MEWS	North of Lot 200			
150	HYDRANT	DW - EGW	In Line	SILVERTOP STREET	In front of Lot 204			
100	HYDRANT	DW - EGW	In Line	MAHOGANY CLOSE	In front of Lot 178			
100	HYDRANT	DW - EGW	In Line	MESSMATE MEWS	In front of Lot 196			
150	HYDRANT	DW - EGW	In Line	MESSMATE MEWS	In front of Lot 190			

TABLE 5. Service Alignment Schedules (offsets in m)

SERVICES OFFSET SCHEDULE								
ROAD NAME	ROAD RESERVE WIDTH	GAS	WATER	NBN	ELECTRICITY	SEWER		
MESSMATE MEWS	16.00	2.10 E	2.60 E	2.00 W	2.50 W	-		
SILVERTOP STREET	16.00	2.10 N	2.60 N	2.00 S	2.50 S	-		
MAHOGANY CLOSE	16.00	2.10 E	2.60 E	2.00 W	2.50 W	-		

TABLE 4. Curved Pipe & Deflection Schedule

THELE IT CALLED A DOLLOW CONTROL OF							
Location	Method	Offset / Radius (m)	Total Pipe Length (m)	Pipe Lengths (m)			

TABLE 6 Thrust Restraint Schedule

ITABLE O.						
Location	Туре	Thrust	AHBP (kPa) USED	Area (m2)	No. of Locations	
Α	IN LINE	DN150 VALVE + DN180 PE THERMAL SHRINKAGE	50	1.49	1	
В	IN LINE	DN125 PE THERMAL SHRINKAGE	50	0.71	2	
С	PLAIN	DN150 WASHOUT	50	0.68	1	
D	IN LINE	DN150X100 TEE	50	0.68	1	

NOTE: Pipe temperature of 25° allowed

PRELIMINARY

W01

Project 35753/5 S.Baral Designed Number e: 01/09/2022 Melway 628 J5 Drawn S.Baral Reference e: 01/09/2022 Preliminary Issue 02/12/2022 G.S. G.Sheath Checked G.Sheath Authorised Rev Description Date Approved

MCISSOCI East Gippsland Water

Minimum vertical

clearance (mm)

225

150



EAST GIPSSLAND WATER Scale: As Shown EAST GIPPSLAND SHIRE COUNCIL BROOKFIELD LAKES ESTATE - STAGE 5 Sheet: 01 of 02

135 GREAT ALPINE ROAD, LUCKNOW

WATER RETICULATION

Drawing No.: Auth Ref. NOTES, SCHEDULES & LOCALITY PLAN

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