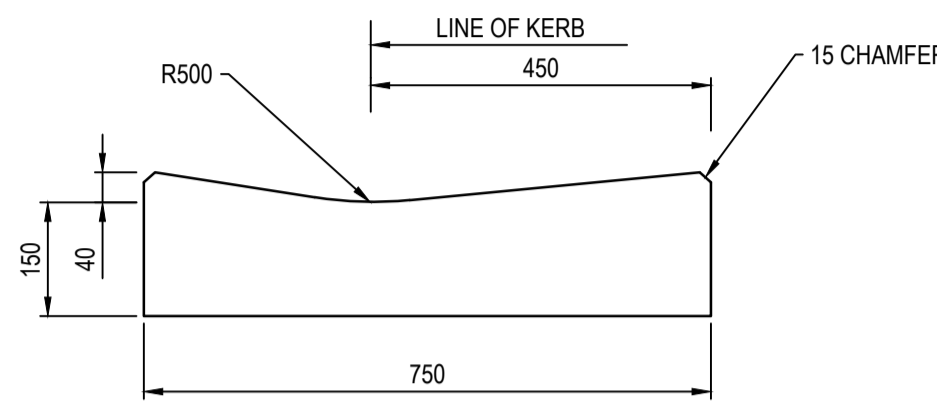


Seventh Bend Estate, Melton

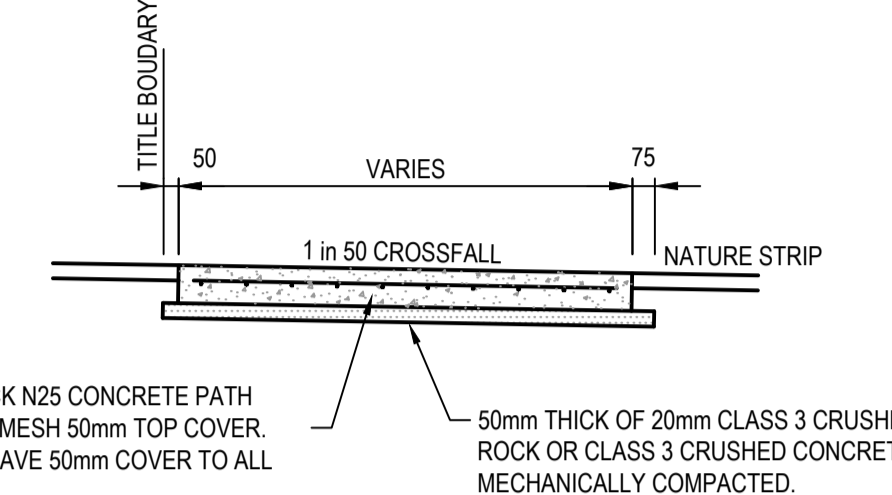
Stage 9

GENERAL NOTES (MELTON SHIRE COUNCIL)

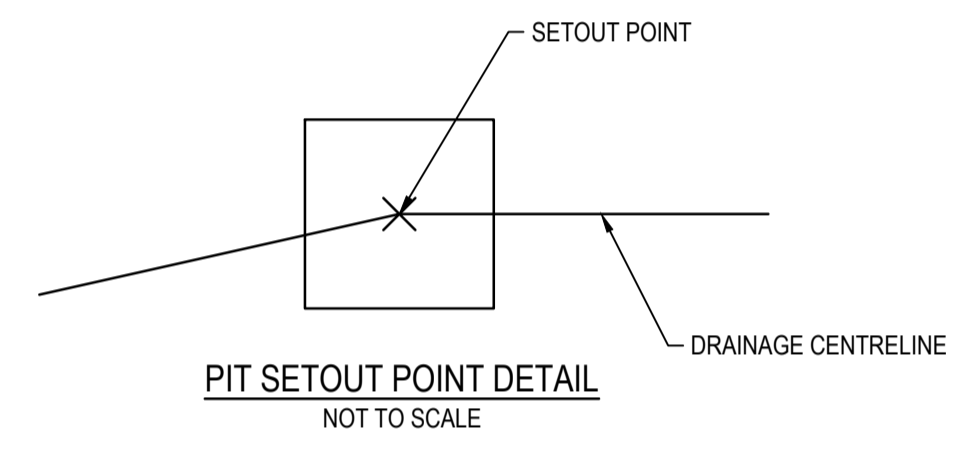
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH A.S. 4000-1992 GENERAL CONDITIONS OF CONTRACT AND CURRENT MELTON SHIRE COUNCIL SPECIFICATIONS AND EDM ADDENDUM STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER OR THEIR REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0m OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS. WRITTEN DIMENSIONS ONLY SHALL BE USED.
- THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5m OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15m OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE ENGINEER AND MUST OBTAIN ALL RELEVANT PERMITS.
- THE CONTRACTOR IS TO OBTAIN THE NECESSARY ROAD OPENING PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN A PREVIOUSLY CONSTRUCTED ROADWAY.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- TBM'S TO BE MAINTAINED AND PROTECTED BY THE CONTRACTOR FOR THE DURATION OF THE WORKS.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
- THE CONTRACTOR IS TO ENSURE THAT HIS CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT DISCHARGE ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES. THE CONTRACTOR IS TO CONSTRUCT SEDIMENT TRAPS AT THE ENDS OF ALL TEMPORARY CHANNELS AND CATCH DRAINS. THEY ARE TO BE MAINTAINED THROUGH THE DURATION OF WORKS AND MAINTENANCE TO BE TRANSFERRED TO DELFIN ON COMPLETION OF THE WORKS.
- ALL BATTERS TO BE 1 IN 6 UNLESS OTHERWISE INDICATED. FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL, TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. WHERE FILL IS IN EXCESS OF 300mm IN DEPTH, THE FILL IS TO BE LEVEL 1 IN ACCORDANCE WITH AS3798. EARTH FILL IS TO BE COMPACTED TO A RELATIVE COMPACTION COMPARED TO A STANDARD COMPACTION TEST AS SPECIFIED BY VIC ROADS OF:
 - 100% FOR ALL FILL MATERIAL AND MATERIAL UNDER FILL THAT IS LESS THAN 450mm FROM THE SURFACE.
 - 95% FOR ALL FILL GREATER THAN 450mm FROM THE SURFACE.
- ADDITIONAL AND OVEREXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL.
- THE SUBGRADE BELOW ALL PAVEMENTS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAX. FOUND IN STANDARD COMPACTION TEST IN AREAS OF CUT TO A DEPTH OF 150mm AND IN AREAS OF FILL TO A DEPTH OF 450mm.
- THE RELATIVE COMPACTION OF CRUSHED ROCK FOR PAVEMENTS SHALL BE COMPLETED AT THE OPTIMUM MOISTURE CONTENT TO A DRY DENSITY (BASED ON THE PERCENTAGE OF THE MAXIMUM DRY DENSITY OBTAINED IN THE MODIFIED COMPACTION TEST) AS BELOW:
 - FOR DEPTH 0-100mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 100%.
 - FOR DEPTH 100-300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 98%.
 - FOR DEPTH OVER 300mm BELOW TOP OF BASE, RELATIVE COMPACTION OF 97%.
- 100mm NOMINAL DIAMETER SUBSOIL DRAIN SHALL BE PROVIDED BEHIND ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDM 202
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G.W AND T ABOVE CONDUIT LOCATIONS AS SPECIFIED. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS. NB: CONDUITS WILL BE SUPPLIED BY NBNS EXPENSE. IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR, NBNS SIZE VARIES - WHITE PVC NBNS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS. GAS AND WATER CONDUITS TO BE 50mm DIA. HEAVY DUTY PVC LAID AT A MINIMUM DEPTH OF 600mm BELOW ROAD FINISHED SURFACE LEVELS. FOR DUAL WATER SUPPLY CONDUIT SHALL BE 100mm DIA.
- ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 FCR.
- ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 6.00m FROM THE SIDE BOUNDARY OR FROM ANY EASEMENT ALONG THE SIDE BOUNDARY.
- ALL PROPERTY INLETS TO BE LOCATED 1.0m FROM THE LOW SIDE BOUNDARY UNLESS OTHERWISE SHOWN. THEY ARE TO BE LAID AT A MINIMUM DEPTH OF 400mm AS SPECIFIED IN THE STANDARD DRAWINGS.
- DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
- ALL RESIDENTIAL FOOTPATHS TO BE MINIMUM 1.50m WIDE UNLESS OTHERWISE INDICATED. FOOTPATH TO BE 125mm DEPTH OF 25MPa CONCRETE CENTRALLY REINFORCED WITH SL72 MESH, AS PER EDM 401 ON 50mm COMPACTED DEPTH 20mm CLASS 3 FCR BASE.
- ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH EDM 501 TO 503. SINGLE DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT.
- ALL ALLOTMENTS AND RESERVES SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE.
- APPROVAL FOR THE REMOVAL AND DISPOSAL OF ANY EXCAVATED MATERIAL OR TOPSOIL IS REQUIRED FROM COUNCIL.
- THE CONTRACTOR TO ERECT STREET NAME SIGNS & POLE AS DIRECTED BY THE SUPERINTENDENT.
- ALL LINEMARKING, SIGNING & TRAFFIC CONTROL DEVICES FOR THIS PROJECT TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742. ALL LINEMARKING TO BE LONG LIFE THERMOPLASTIC PAINT.
- CONFIRMATION OF THE ASPHALT WEARING COURSE IS TO BE DEFERRED UNTIL INSTRUCTED BY THE SUPERINTENDENT.
- ALL EXOTIC (NON-NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS AREA TO BE REMOVED AND DISPOSED OFFSITE.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVE SHALL BE SURFACED WITH A 100mm LAYER TOPSOIL AS SPECIFIED. ALL FILLING ON ALLOTMENTS TO BE COMPACTED TO 95% STANDARD COMPACTION IN 150mm LAYERS AND AS PER THE SPECIFICATION. WHERE THERE IS FILL IN EXCESS OF 300mm IN DEPTH, THE CONTRACTOR IS TO CARRY OUT SOIL TESTS TO THE REQUIREMENTS OF SECTION 8 AS SPECIFIED IN AS3798-1996 TO SHOW THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIRE PLUG.
- UPON COMPLETION OF CONSTRUCTION, THE WHOLE SITE SHALL BE CLEANED UP AND GRADED OVER. ALL RUBBISH IS TO BE REMOVED AND THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- ALL DRAINAGE PIT COVERS AND GRATES IN ACCORDANCE WITH EDM 601 TO 608
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CL3 CR TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF THE MAXIMUM FOUND IN THE STANDARD COMPACTION TEST.
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45° ANGLE OF REPOSE FROM THE NEAR LOWER EDGE.



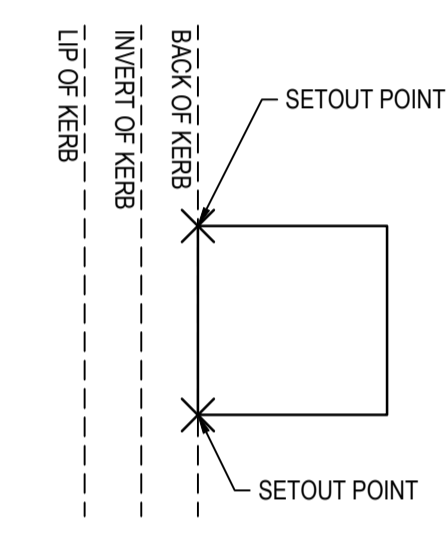
750 INVERT CHANNEL DETAIL TO INTERSECT WITH 600 WIDTH BARRIER KERB AND CHANNEL DETAIL
SCALE 1:10 EDM



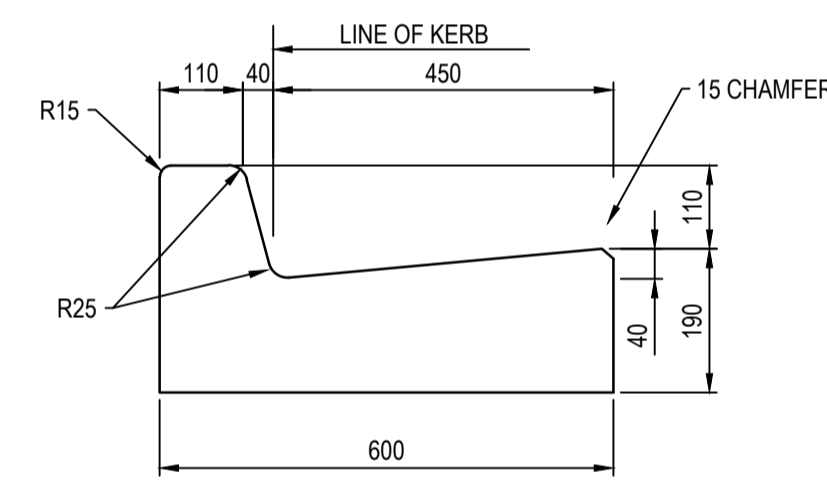
TYPICAL FOOTPATH CROSS SECTION
NOT TO SCALE (REFER NOTE 27)



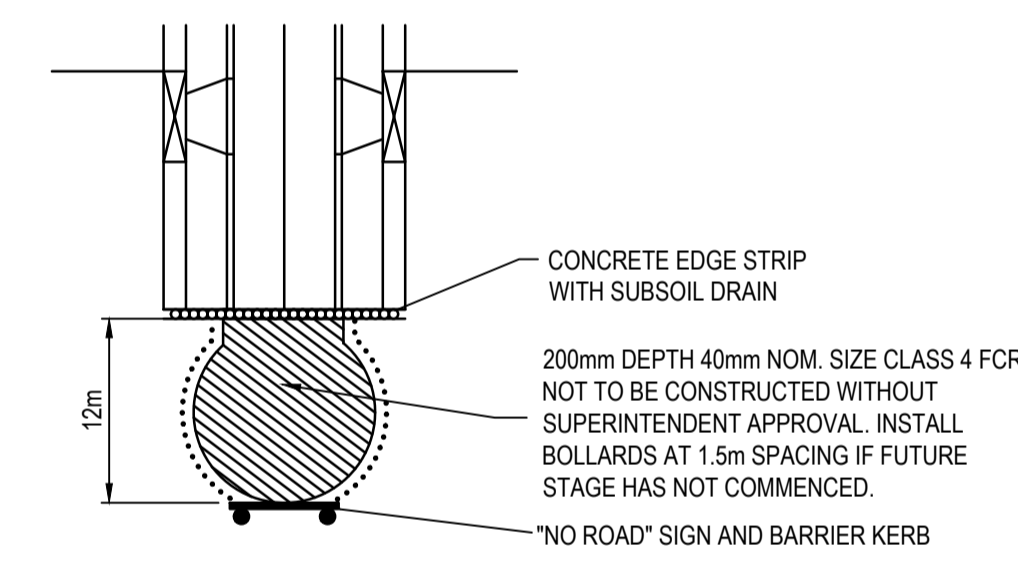
PIT SETOUT POINT DETAIL
NOT TO SCALE



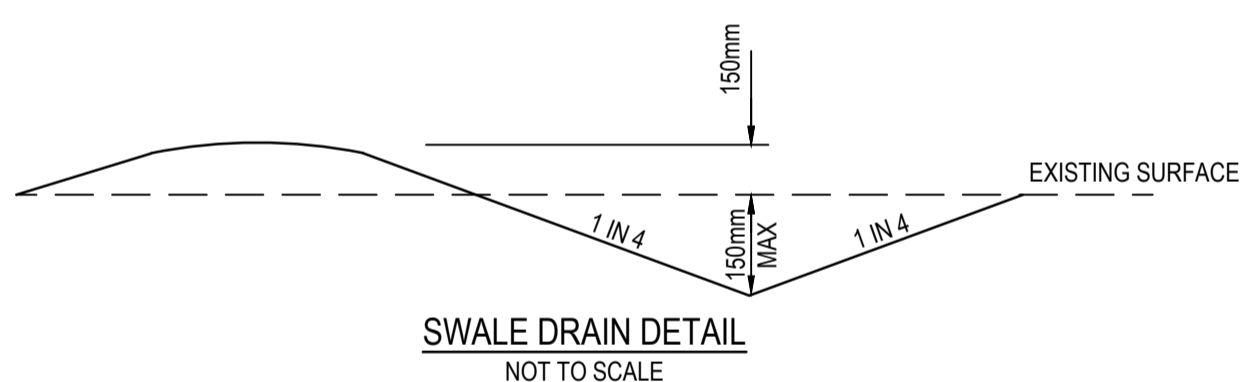
KERB PIT SETOUT POINT DETAIL
NOT TO SCALE



600 B2 KERB DETAIL
SCALE 1:10 EDM



TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE



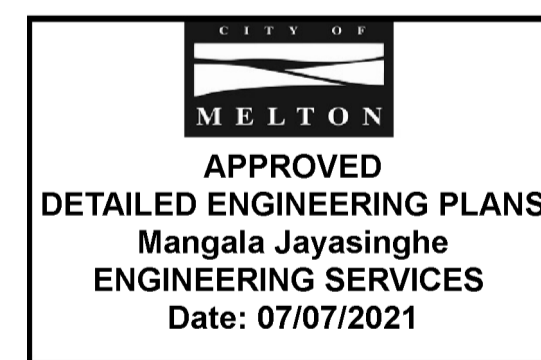
SWALE DRAIN DETAIL
NOT TO SCALE

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- 2250E-09-10 Cross Sections: Landmark Road Ch 104.15 - Ch 148.20
- 2250E-09-11 Cross Sections: Shelterbelt Avenue Ch 11.80 - Ch 139.65
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- 2250E-09-85 Safety In Design

ROAD NAME	SERVICES OFFSET TABLE			
	GAS	WATER	ELECTRICITY	OPTIC FIBRE
LANDMARK ROAD	2.10 W	2.60 W	2.40 E	1.85 E
SHELTERBELT AVENUE (LOTS 926-935)	2.10 W	2.60 W	2.60 E	1.85 E
SHELTERBELT AVENUE (LOTS 910-923)	2.10 N	2.60 N	2.60 S	1.85 S
SHELTERBELT AVENUE (LOTS 939-964)	2.10 N	2.60 N	1.00 S	0.25 S
BIOTIC CLOSE	2.10 N	2.60 N	0.8 S	0.3 S

ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP TO LIP	INV TO INV	BACK TO BACK	NTHWEST	STHEAST	NTHWEST	STHEAST
LANDMARK ROAD	AS1	16m	6.40	7.30	7.60	600 B2	600 B2	4.35	4.05
SHELTERBELT AVENUE (LOTS 926-935)	AS1	16m	6.40	7.30	7.60	600 B2	600 B2	4.35	4.05
SHELTERBELT AVENUE (LOTS 910-923)	AS1	16m	6.40	7.30	7.60	600 B2	600 B2	4.35	4.05
SHELTERBELT AVENUE (LOTS 939-964)	AS1	14m - VARIES	6.40	7.30	7.60	600 B2	600 B2	4.35	VARIES
BIOTIC CLOSE	AL	12m	6.00	6.00	6.00	-	-	2.85	1.00



WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register SID P4.F6. 2250E-09-85
ASSESS THE RISK - STAY SAFE

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. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

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Quality Management ISO 9001
OHS Management AS/NZS 4500
Environmental Management ISO 14001

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SMC
Member of the Surbana Jurong Group
ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Cover Plan

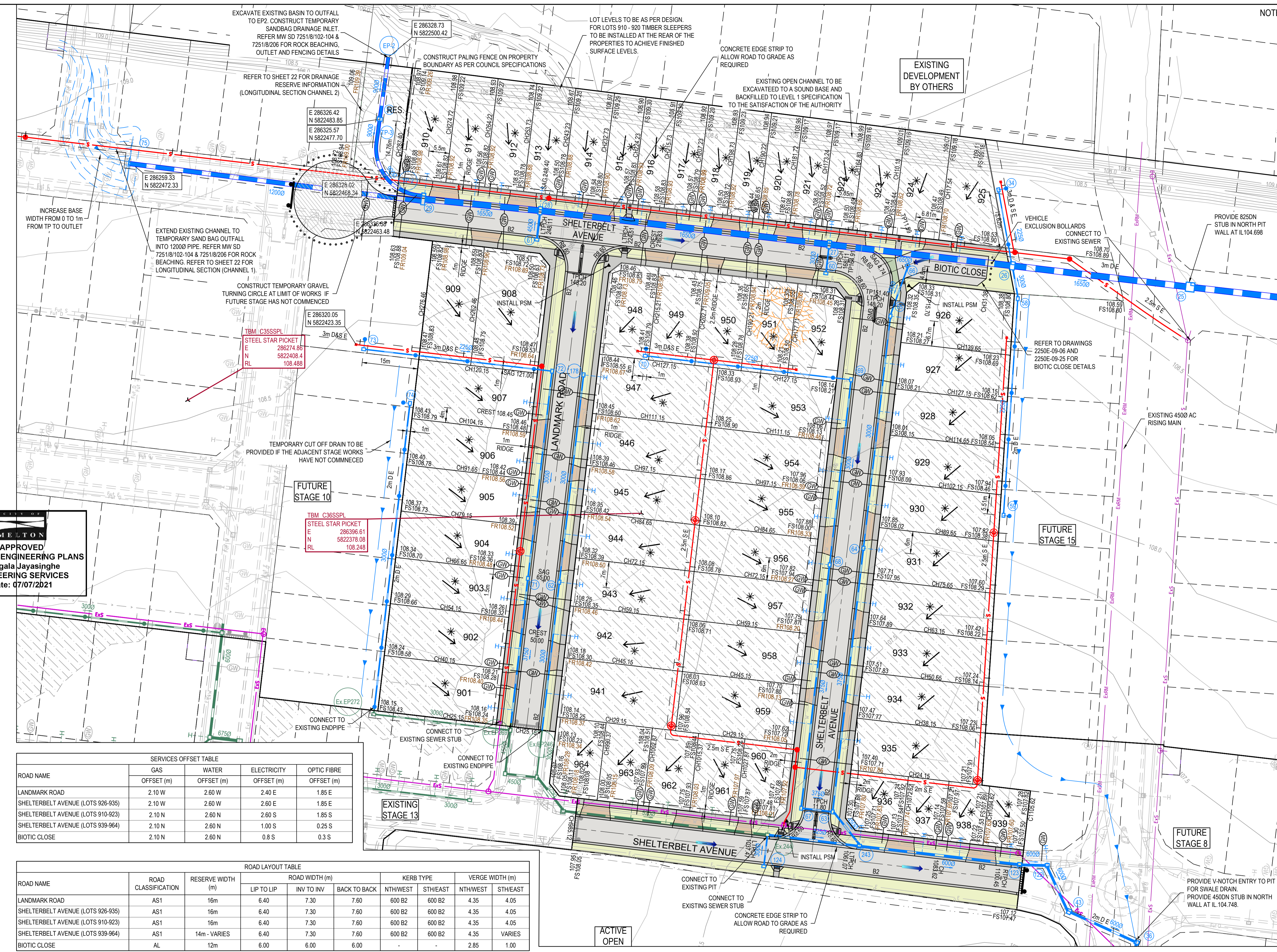
MELWAYS REF: 342 K7
PROJECT / DRAWING No: 2250E-09-01
SHEET No: 01 of 27
REVISION: 0

NOTE: TRAFFIC ISLANDS TO BE INSTALLED AS PER MELTON STANDARD MCC307 S13-MOUNTABLE ISLAND

LEGEND - LAYOUT PLAN

- ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY
- STORMWATER DRAIN, PIT & PROPERTY INLET
 - MAIN DRAIN
 - SWALE DRAIN
 - SEWER & MAINTENANCE STRUCTURES
 - HOUSE DRAIN
 - ELECTRICITY (U.GROUND)
 - ELECTRICITY (O.HEAD)
 - GAS
 - TELSTRA
 - OPTIC FIBRE
 - WATER
 - RECYCLED WATER
 - AG. DRAIN
 - SERVICE CONDUITS
 - TACTILE PAVERS
 - EXISTING STORMWATER DRAIN
 - EXISTING MAIN DRAIN
 - EXISTING SWALE DRAIN
 - EXISTING SEWER & MAINTENANCE STRUCTURES
 - EXISTING HOUSE DRAIN
 - EXISTING ELECTRICITY (UNDER GROUND)
 - EXISTING ELECTRICITY OVERHEAD
 - EXISTING GAS
 - EXISTING TELSTRA
 - EXISTING OPTIC FIBRE
 - EXISTING WATER
 - EXISTING RECYCLED WATER
 - EXISTING AG. DRAIN
 - EXISTING SERVICE CONDUITS
 - EXISTING TACTILE PAVERS
 - FUTURE STORMWATER DRAIN
 - FUTURE MAIN DRAIN
 - FUTURE SWALE DRAIN
 - FUTURE SEWER & MAINTENANCE STRUCTURES
 - FUTURE HOUSE DRAIN
 - FUTURE ELECTRICITY (UNDER GROUND)
 - FUTURE ELECTRICITY OVERHEAD
 - FUTURE GAS
 - FUTURE TELSTRA
 - FUTURE OPTIC FIBRE
 - FUTURE WATER
 - FUTURE RECYCLED WATER
 - FUTURE AG. DRAIN
 - FUTURE SERVICE CONDUITS
 - FUTURE TACTILE PAVERS
 - ZERO LOT LINES
 - 141.34 EXISTING SURFACE LEVEL
 - FS140.35 FINISHED BUILDING LINE LEVEL
 - FR157.40 FINISHED RIDGE LINE LEVEL
 - CH270.00 CHAINAGE
 - TW159.60 TOP OF RETAINING WALL LEVEL
 - BW159.00 BOTTOM OF RETAINING WALL LEVEL
 - EXISTING RETAINING WALL
 - RETAINING WALL
 - FUTURE RETAINING WALL
 - STRUCTURAL FILL > 200mm DEEP
 - EXISTING STRUCTURAL FILL > 200mm DEEP
 - CUT > 200mm DEEP
 - DIRECTION OF FALL
 - OVERLAND FLOW
 - GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
 - EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
 - EXISTING TREE TO BE RETAINED
 - EXISTING TREE TO BE REMOVED
 - PERMANENT SURVEY MARK
 - TEMPORARY BENCH MARK
 - PROPOSED DRIVEWAY & FOOTPATH
 - PROPOSED INDUSTRIAL DRIVEWAY
 - PROPOSED SHARED FOOTPATH
 - PROPOSED ROAD PAVING
 - EXISTING ROAD PAVING

REFER SHEET 2250E-09-03 FOR CONTINUATION



MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

ROAD NAME	SERVICES OFFSET TABLE			
	GAS	WATER	ELECTRICITY	OPTIC FIBRE
LANDMARK ROAD	2.10 W	2.60 W	2.40 E	1.85 E
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BIOTIC CLOSE	AL	12m	6.00	6.00	6.00			2.85	1.00	

CONTRACTOR TO ENSURE DRAINAGE PITS ARE HAUNCHED BEHIND BACK OF KERB TO ENSURE MINIMUM 900 x 600 PIT COVER. REFER TO DWG 2250E-09-20 FOR FURTHER PIT SETOUT INFORMATION

ISSUED FOR CONSTRUCTION

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

Scale 1:500

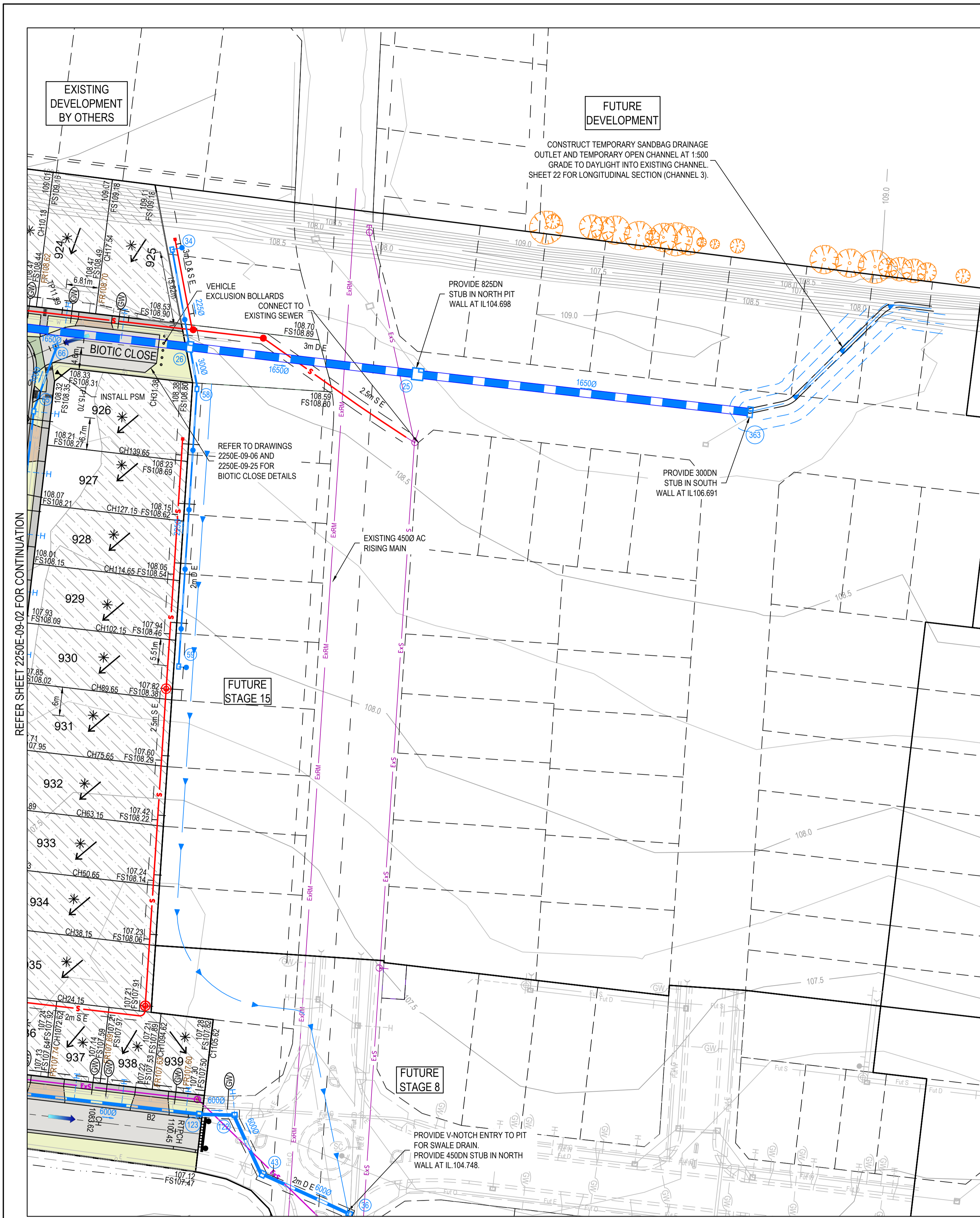
SCALE AS SHOWN AT 1

SMEC
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ABN 47 065 475 149
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Melbourne, VIC 3004
Ph 03 9514 1500

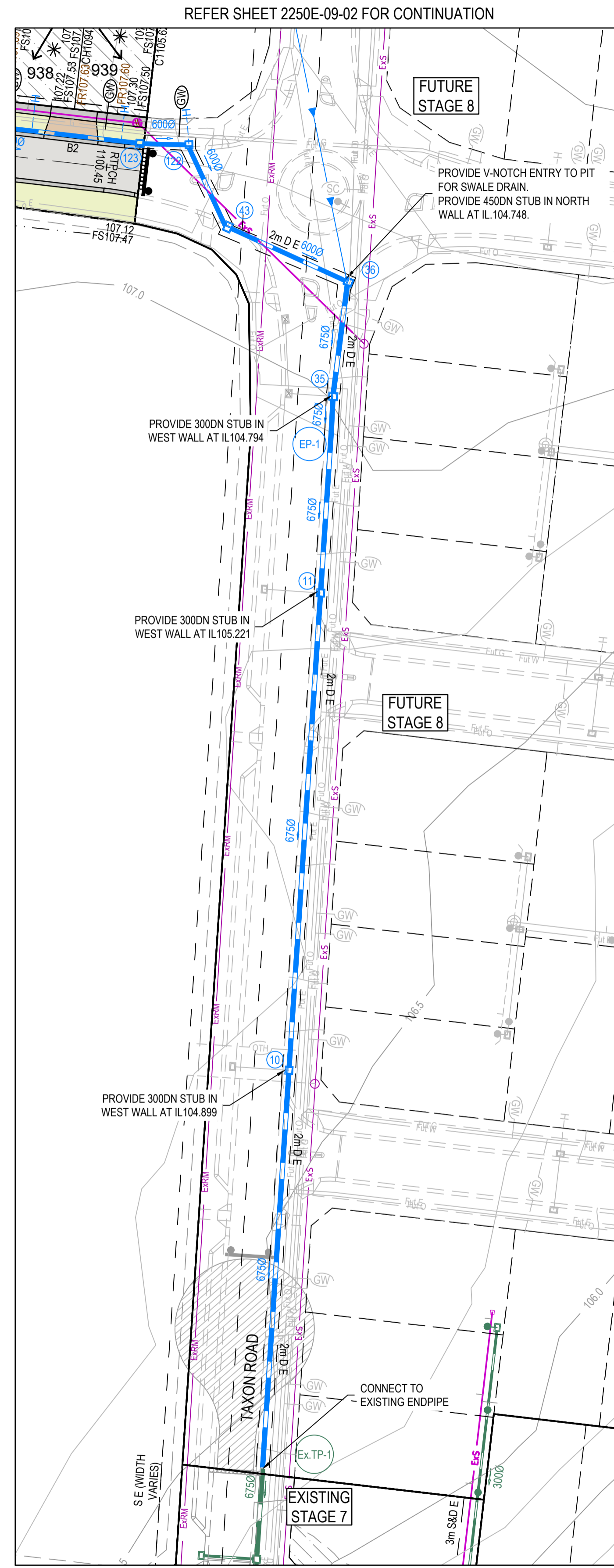
SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-02	02 of 27	0



NOTE: TRAFFIC ISLANDS TO BE INSTALLED AS PER MELTON STANDARD MCC307 S13-MOUNTABLE ISLAND



LEGEND - LAYOUT PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
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	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

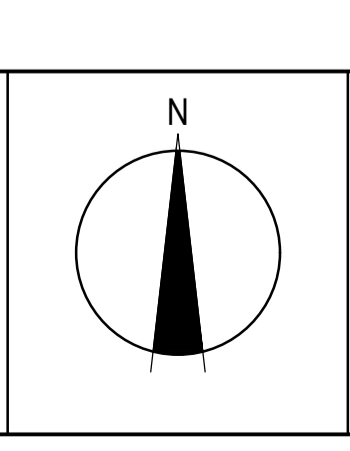
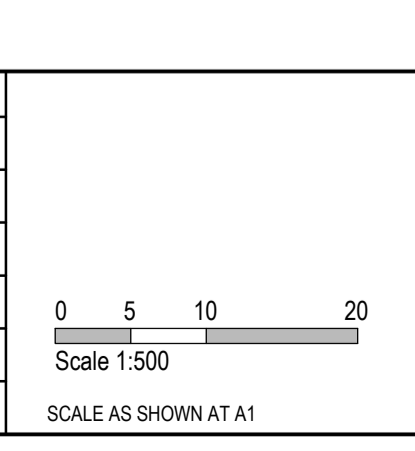
REFER RIGHT FOR CONTINUATION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

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TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Layout Plan - 2

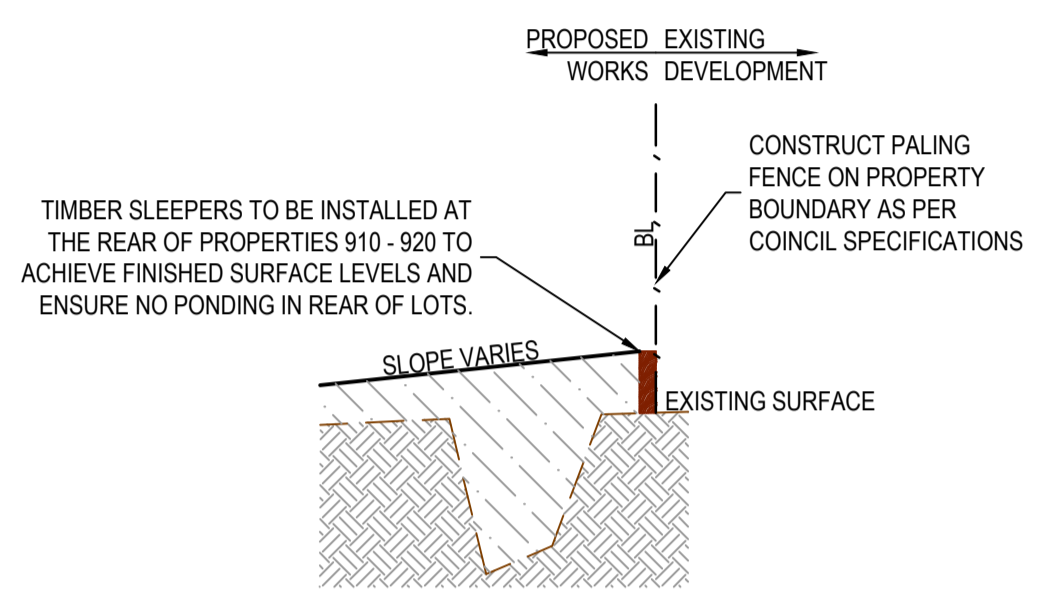
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-03	SHEET No. 03 of 27	REVISION 0
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LEGEND - EARTHWORKS PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

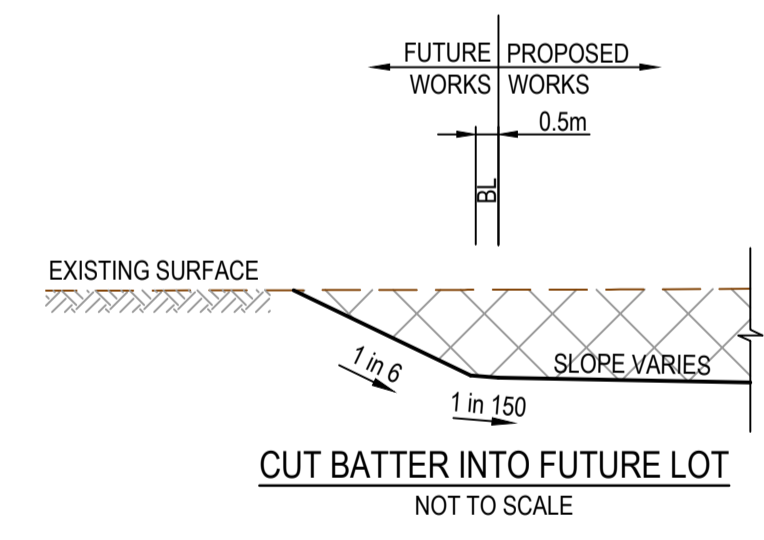
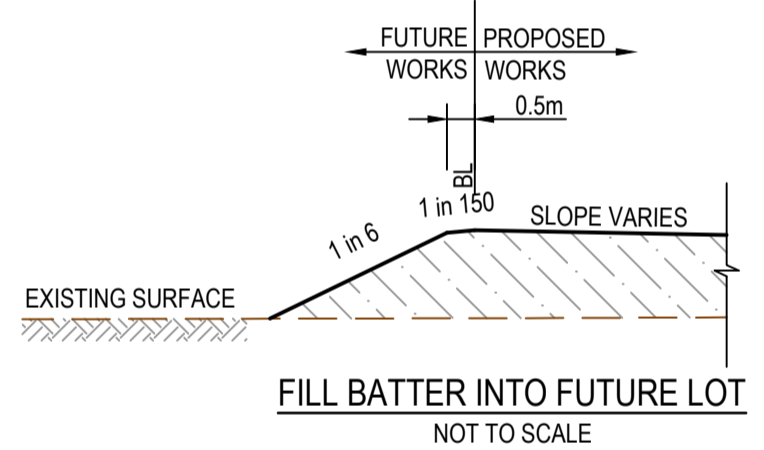
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLED WATER
	AG. DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG. DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG. DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	TW159.60 TOP OF RETAINING WALL LEVEL
	BW159.00 BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED INDUSTRIAL DRIVEWAY
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING



MELTON
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Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021



SLEEPER INSTALLATION FOR PROPOSED WORKS
LOTS 910 - 920
NOT TO SCALE



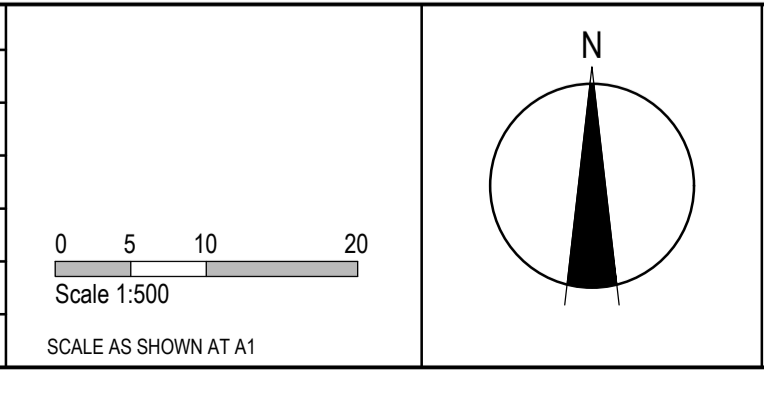
WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety in Design Risk Register SID P4.E6.2250E.09-05
ASSESS THE RISK - STAY SAFE

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. Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

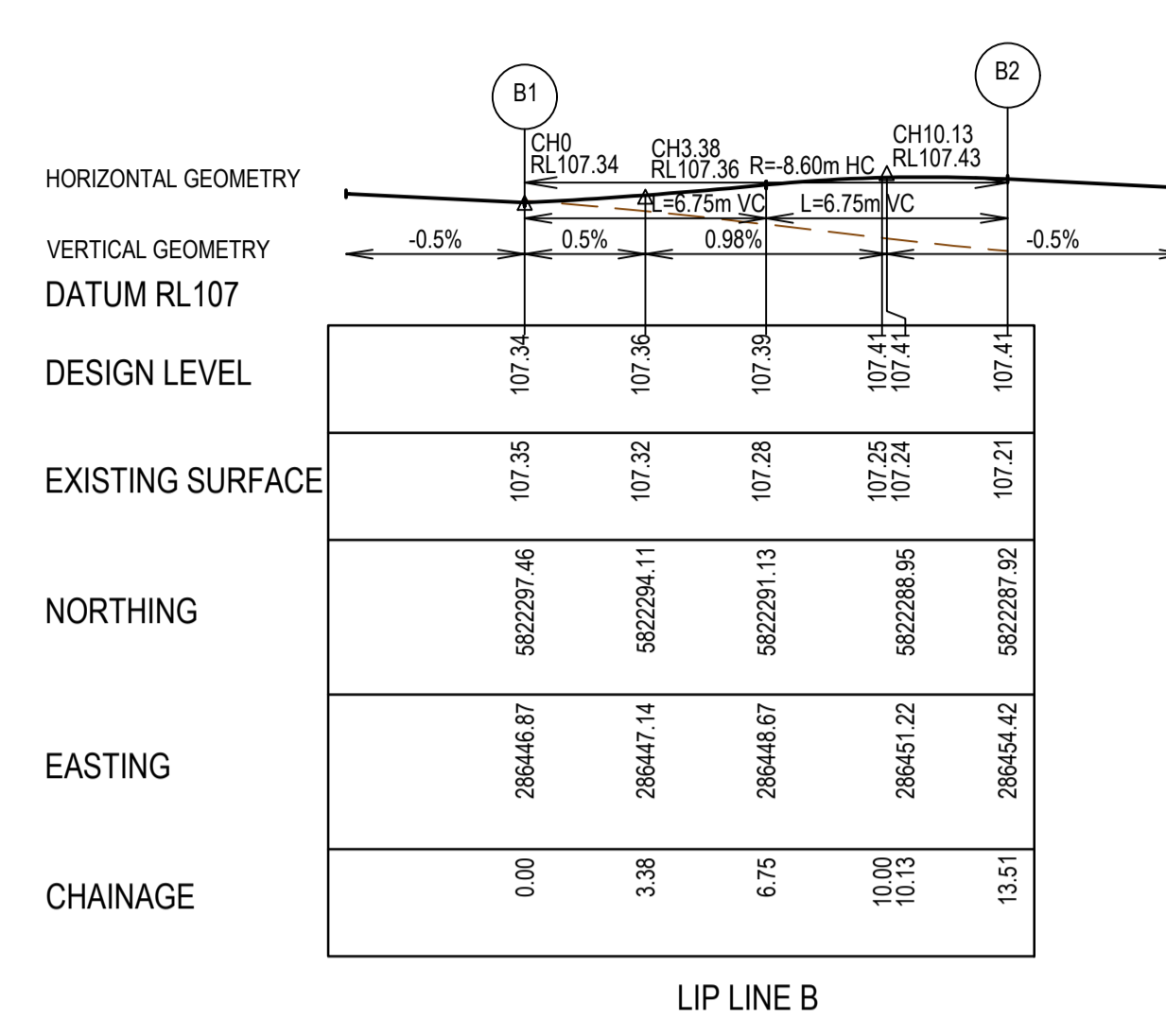
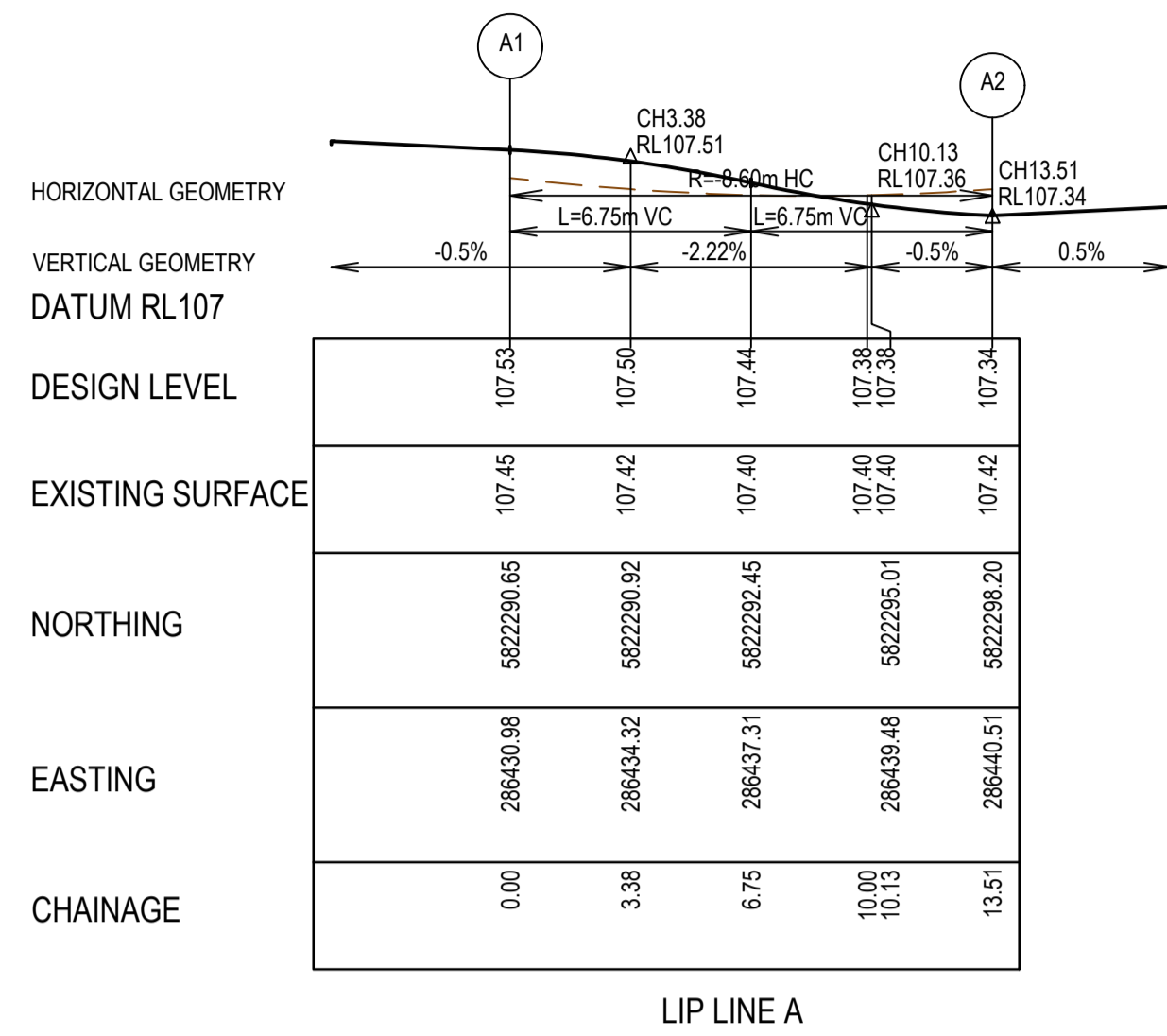
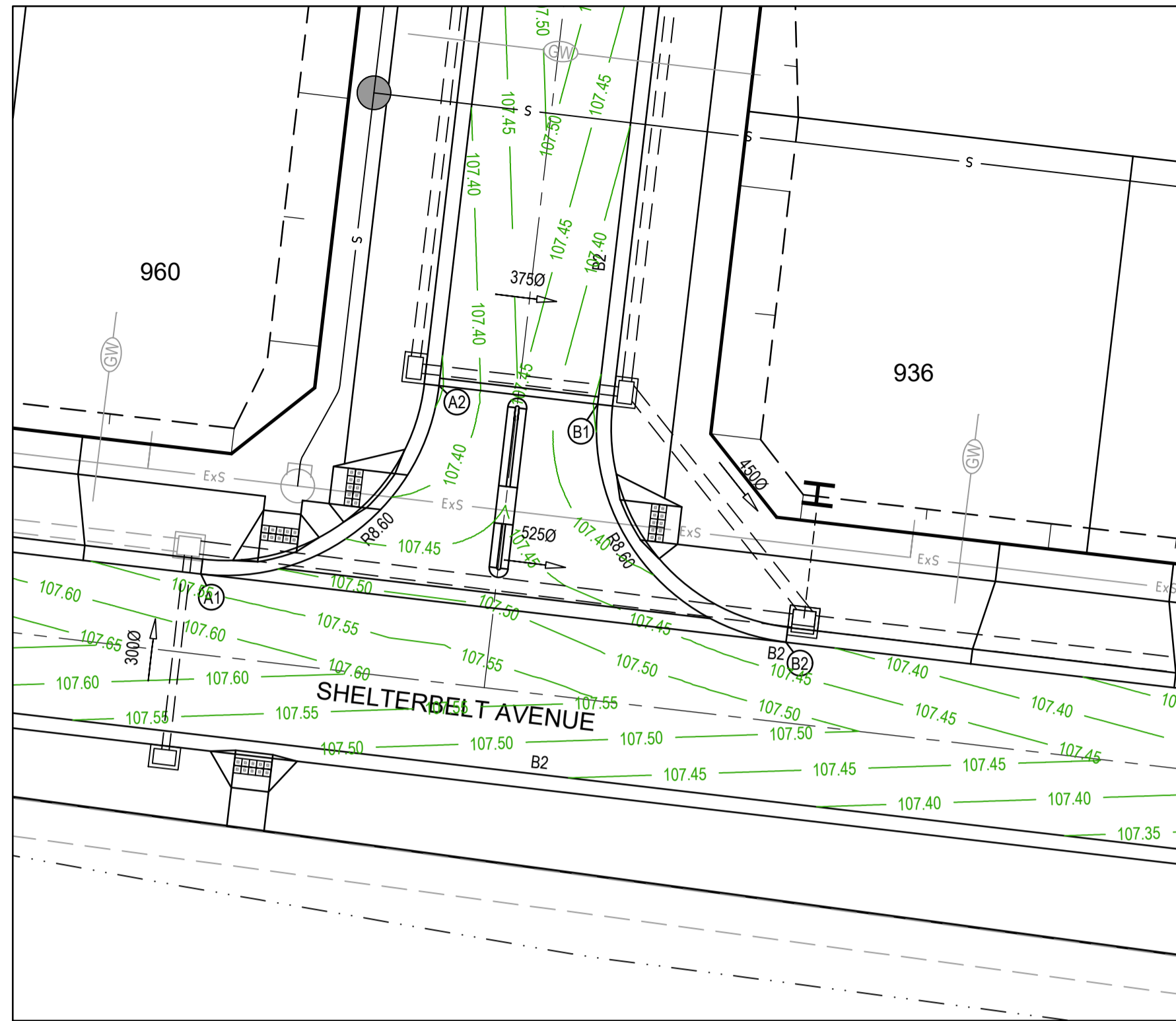
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TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
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Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

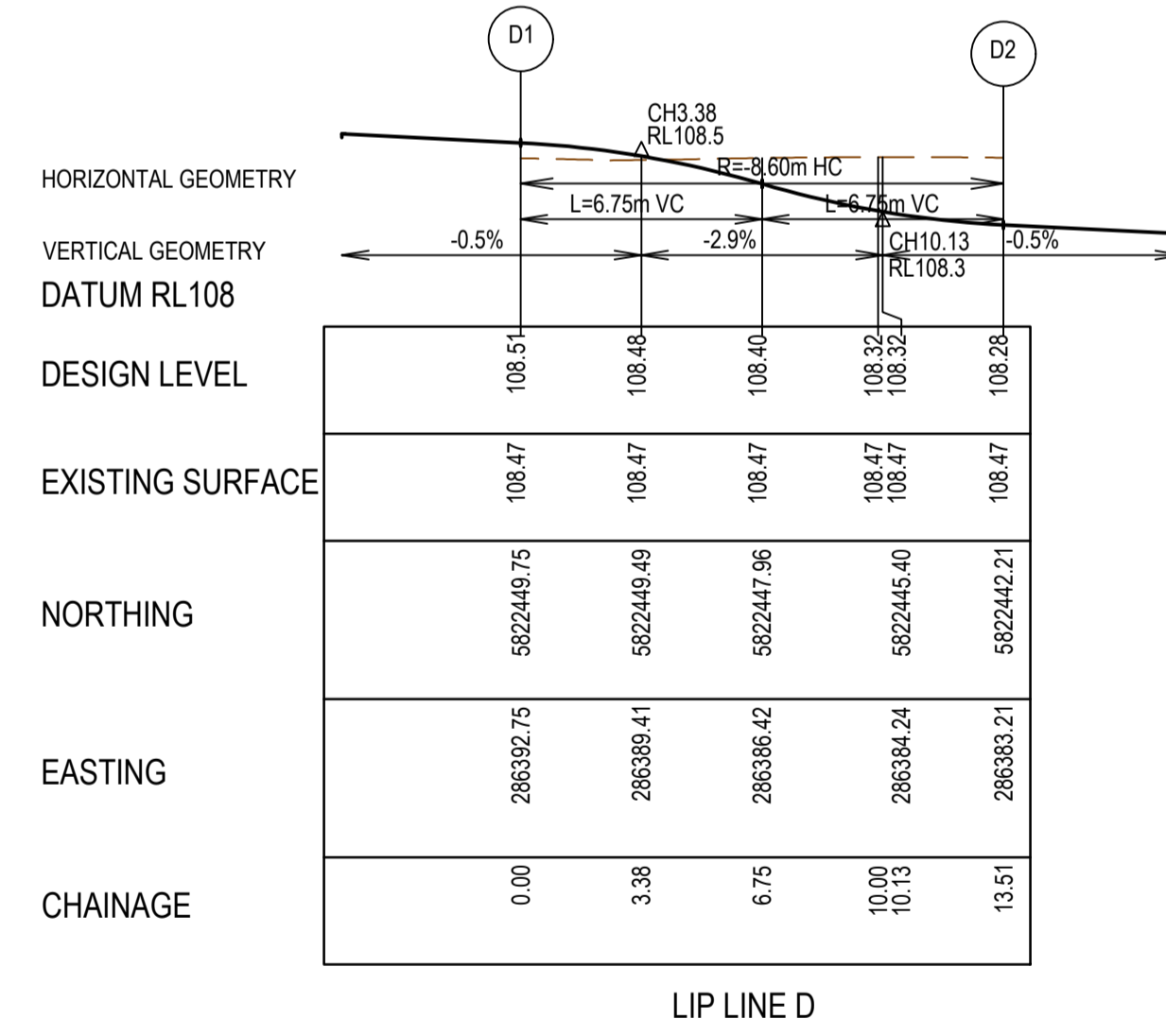
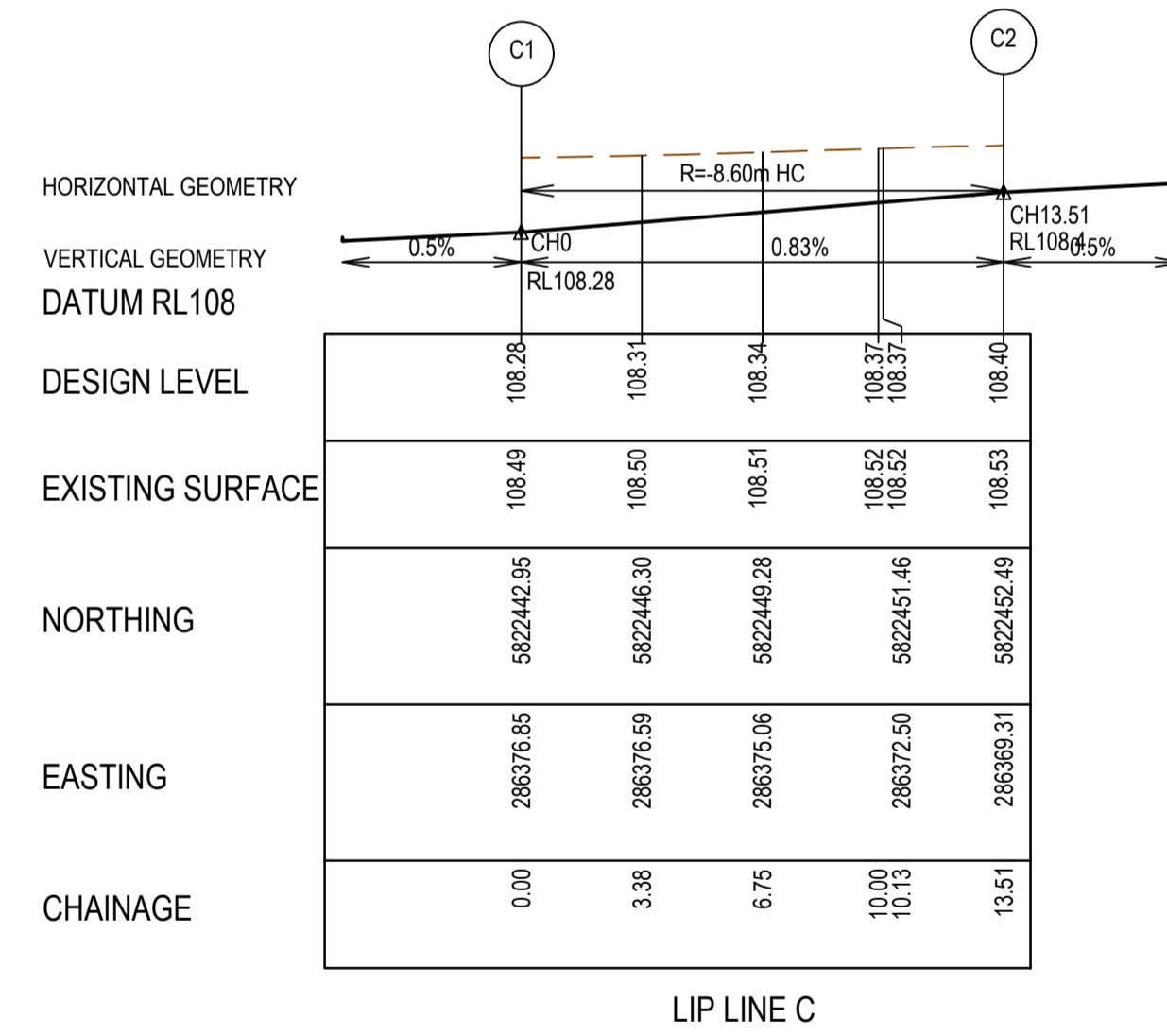
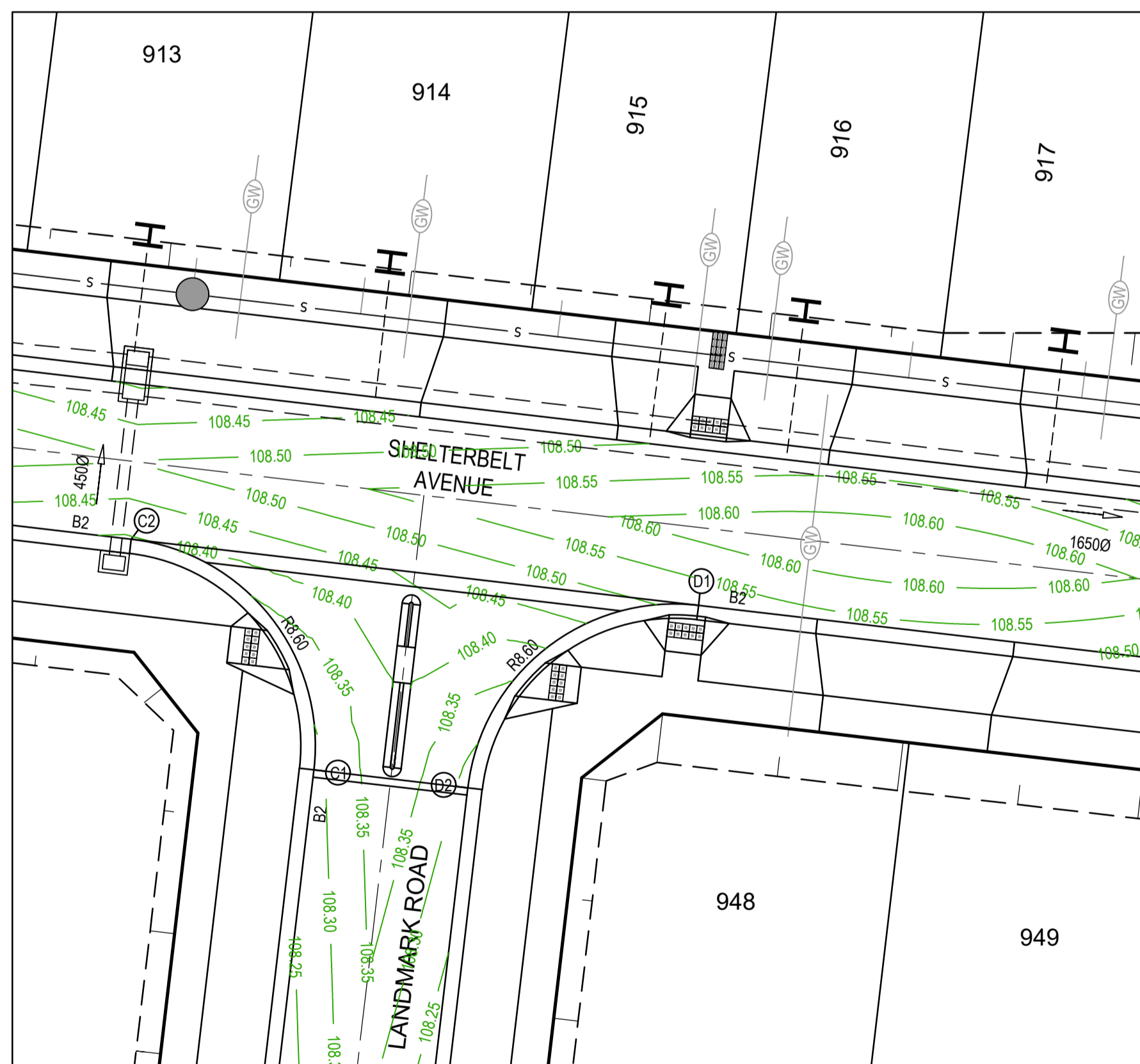
Seventh Bend - Stage 09 Melton City Council Road and Drainage Earthworks Plan			
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-04	SHEET No. 04 of 27	REVISION 0



LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



MELTON

APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

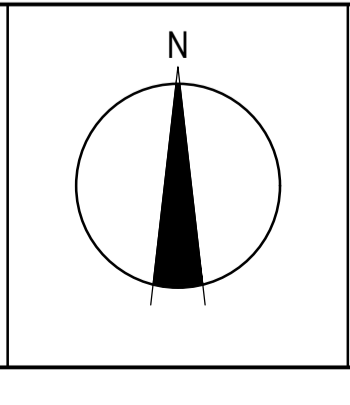
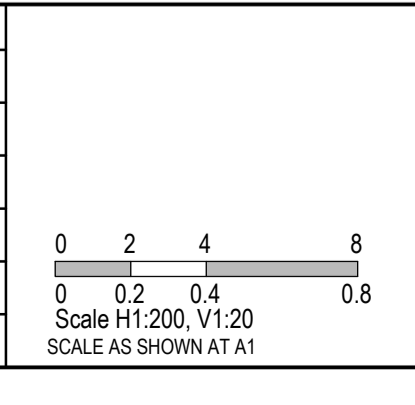
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Site Management - AS/NZS 1800
Global-Mark.com.au®

Environmental Management - ISO 14001
Global-Mark.com.au®

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SMEC

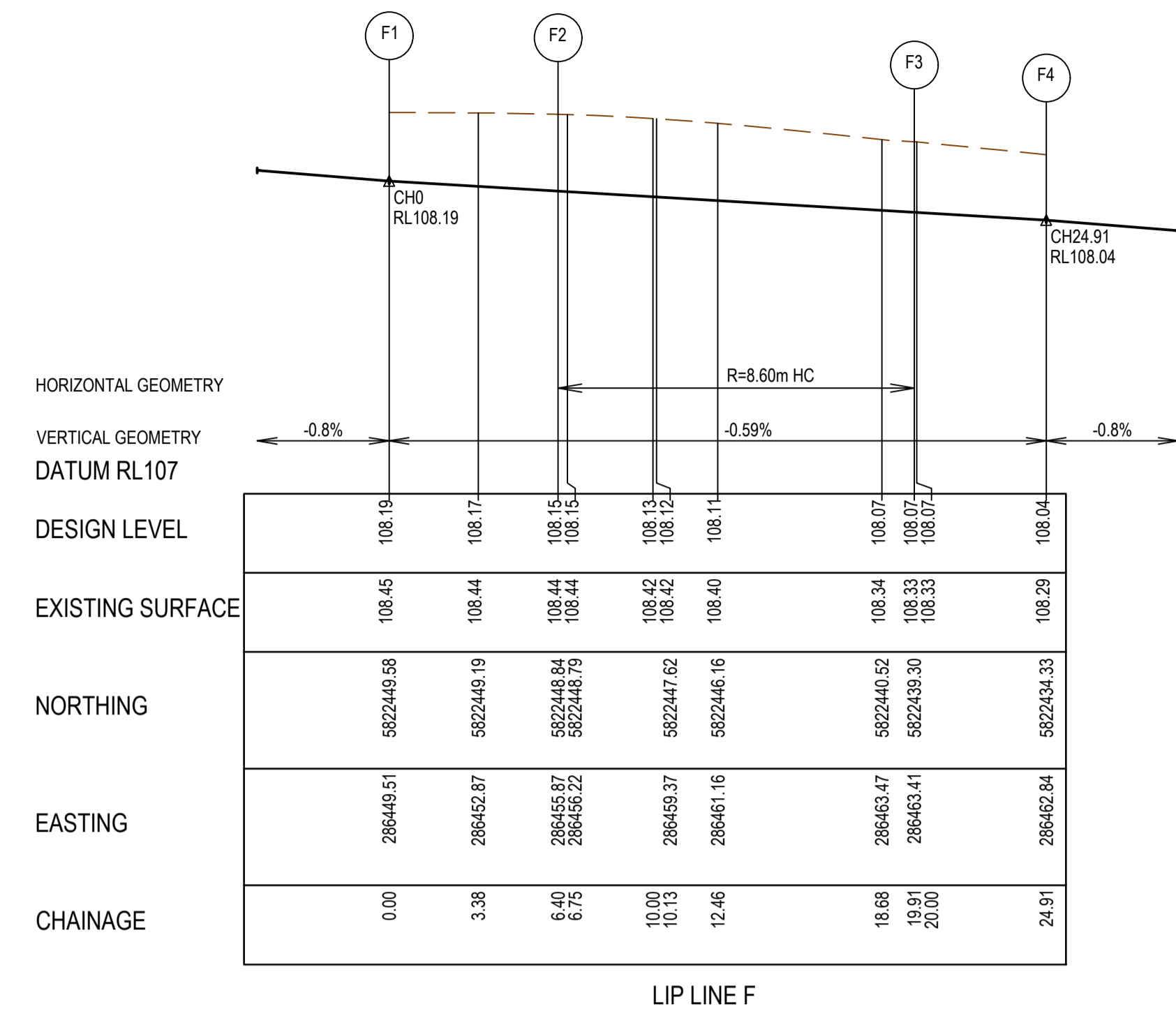
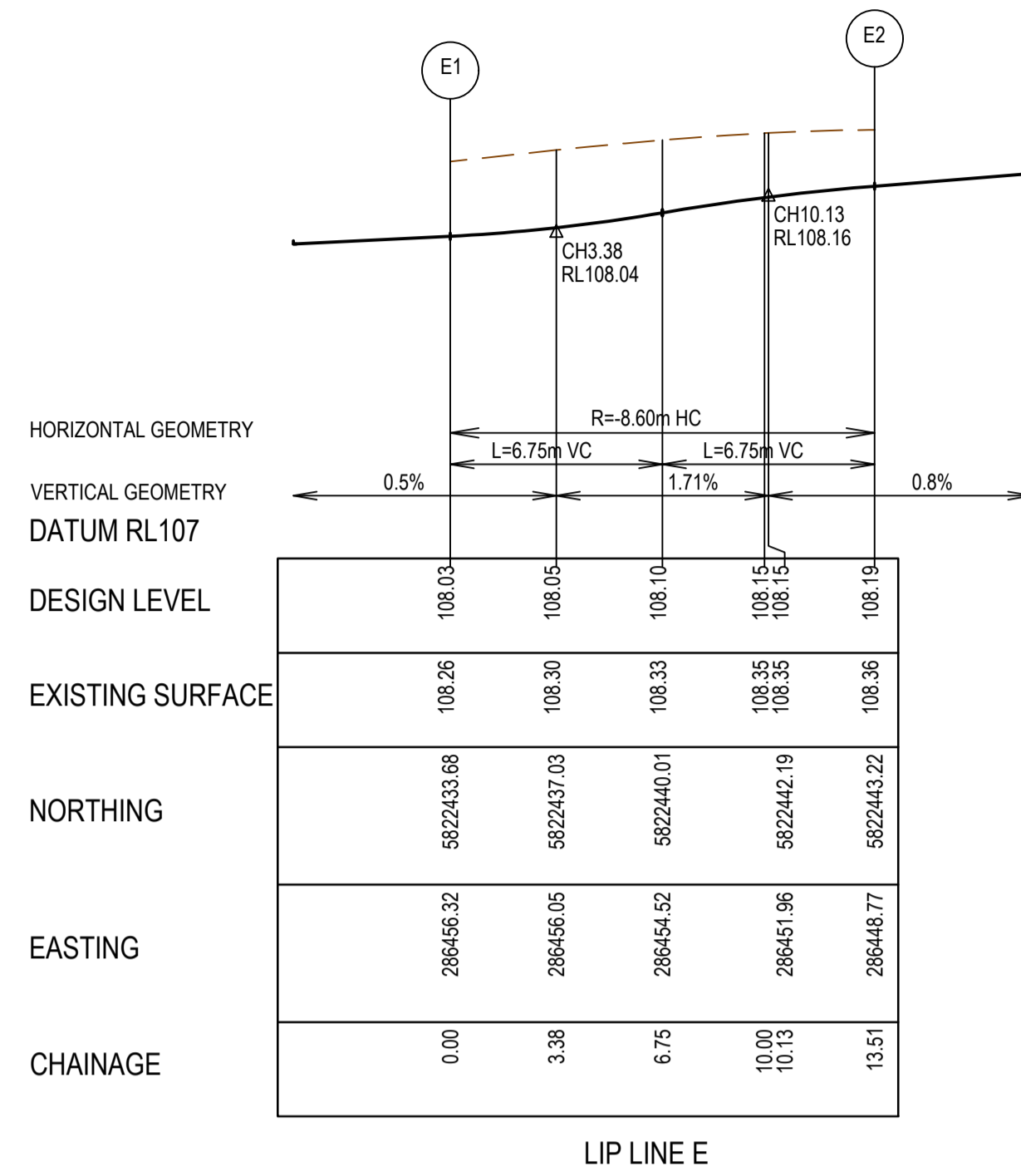
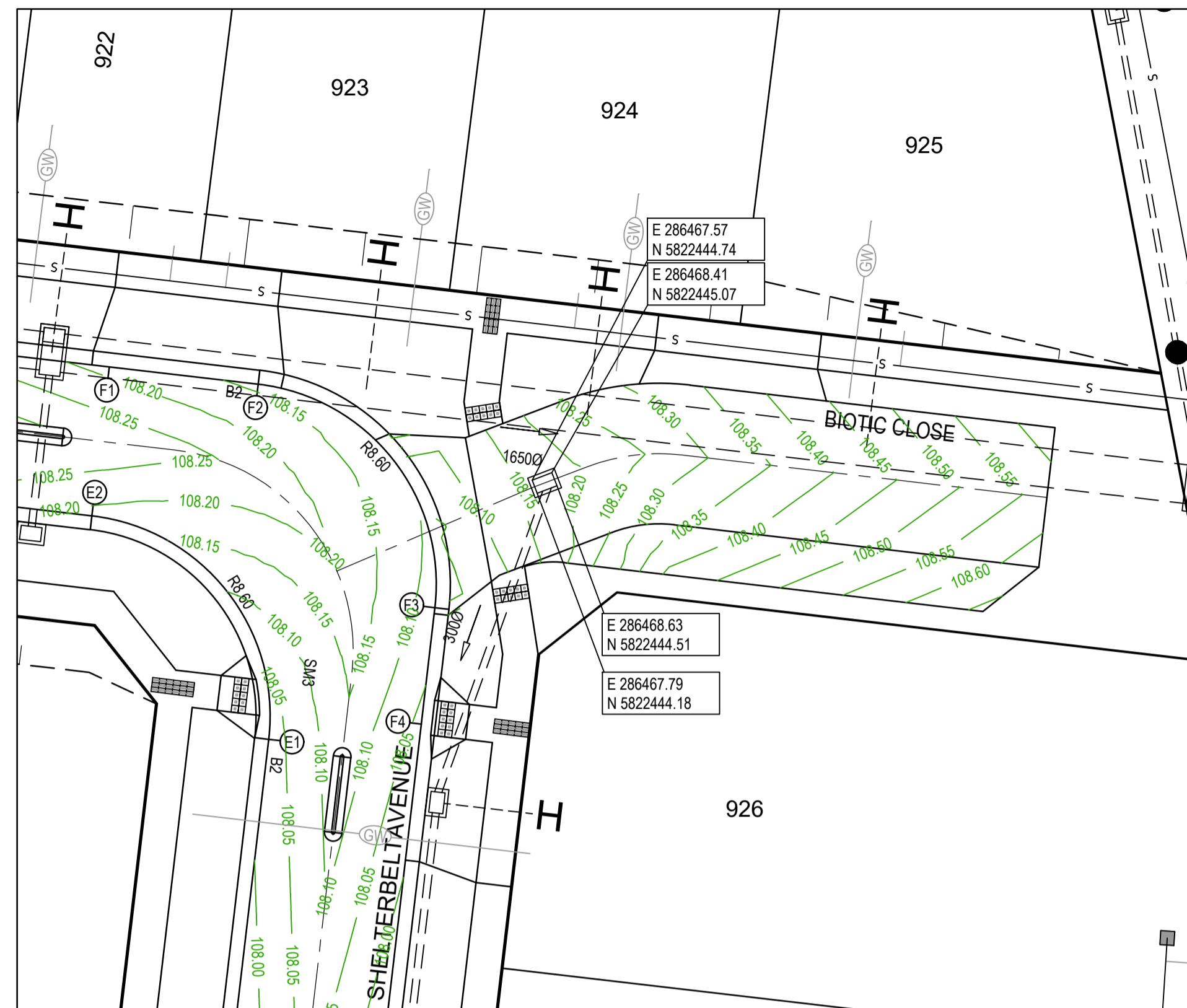
Member of the Surlana Jurong Group

ABN 47 065 475 149

Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage Intersection Detail Plan - 1		MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-05	SHEET No. 05 of 27	REVISION 0
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LEGEND - INTERSECTION DETAIL PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	SEWER & MAINTENANCE STRUCTURES
	MAIN DRAIN
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

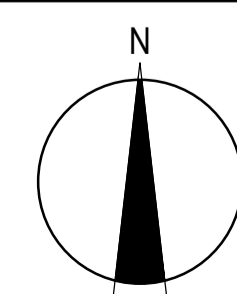
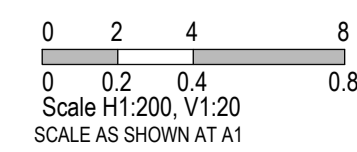
MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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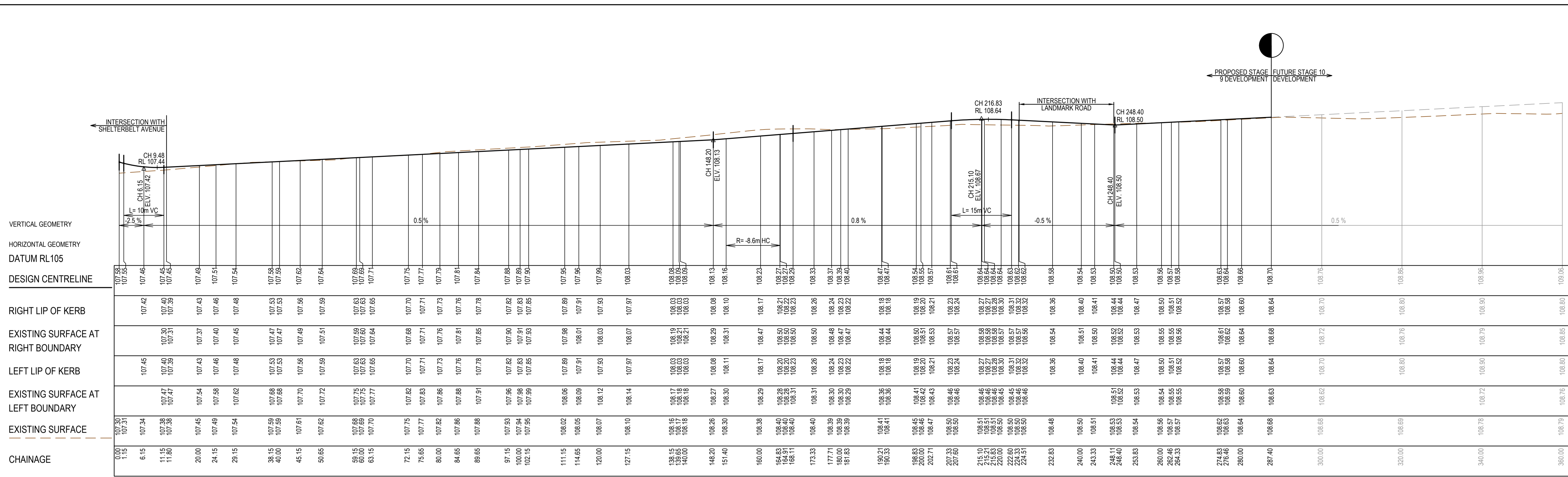


SMEC
Member of the Surbana Jurong Group
ABN 47 065 475 149
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Melbourne, VIC 3004
Ph 03 9514 1500

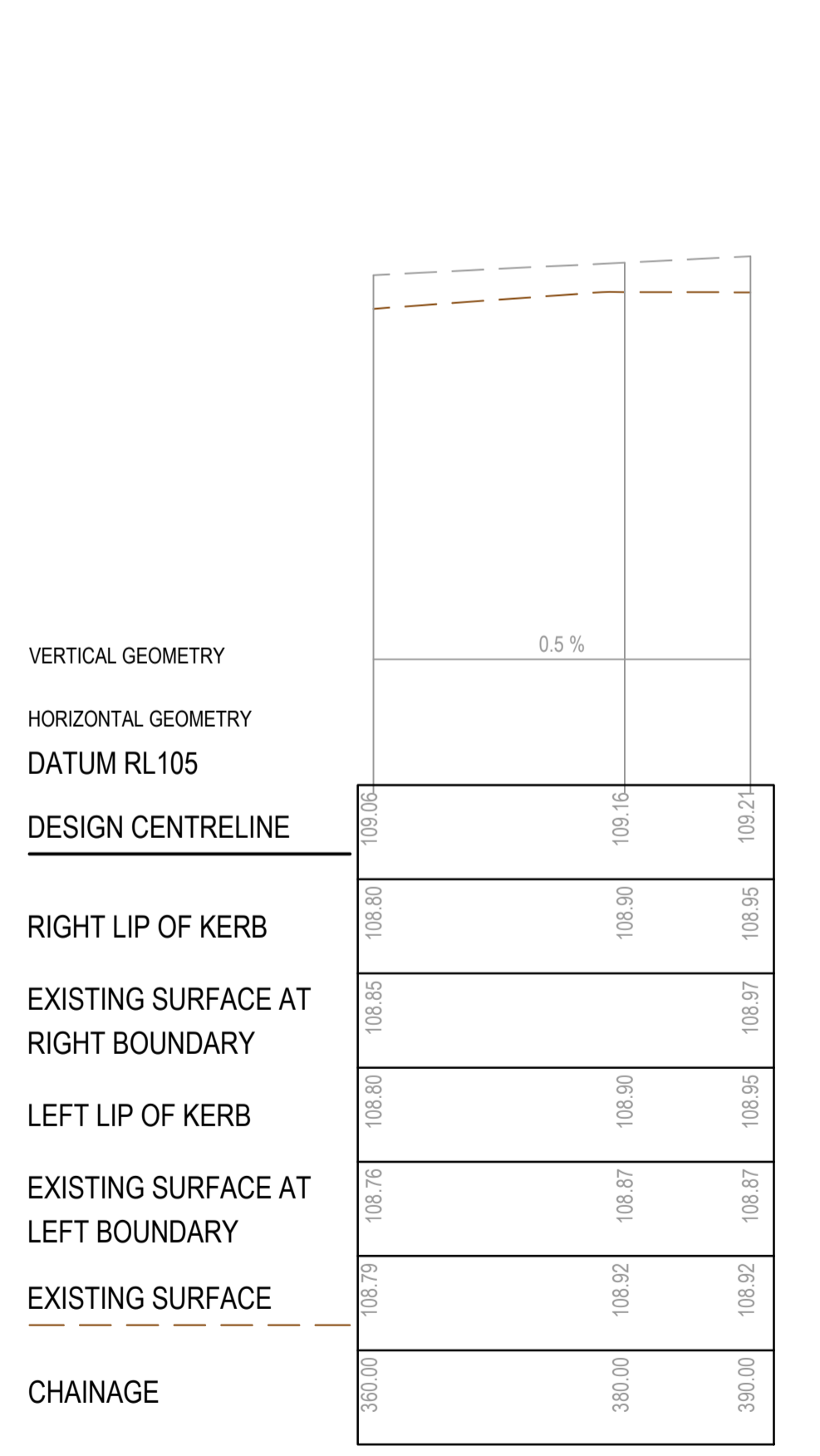
SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-06	SHEET No. 06 of 27	REVISION 0
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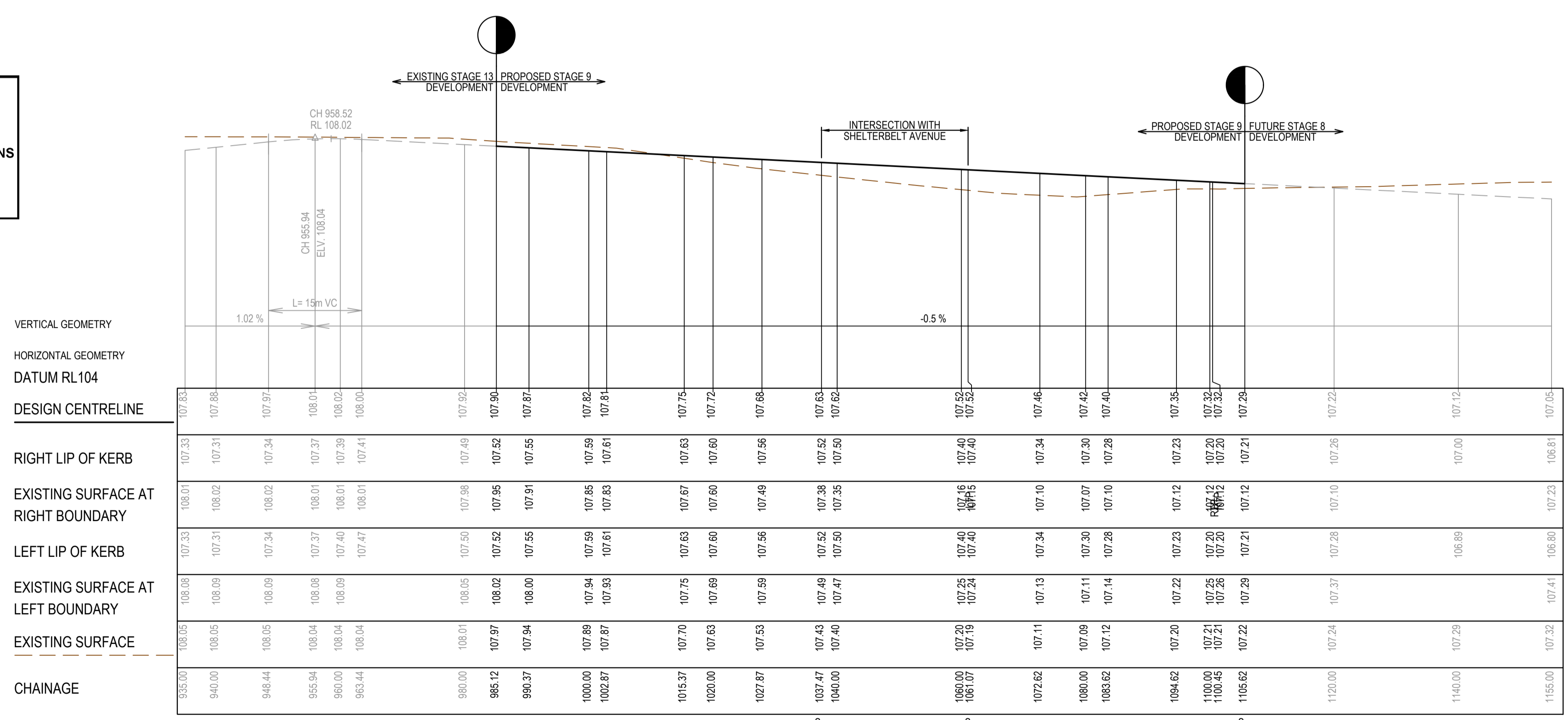


SHELTERBELT AVENUE LONGITUDINAL SECTION



SHELTERBELT AVENUE LONGITUDINAL SECTION

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

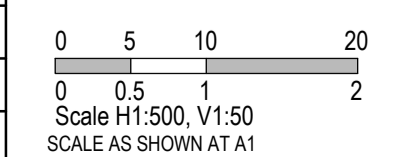


SHELTERBELT AVENUE LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
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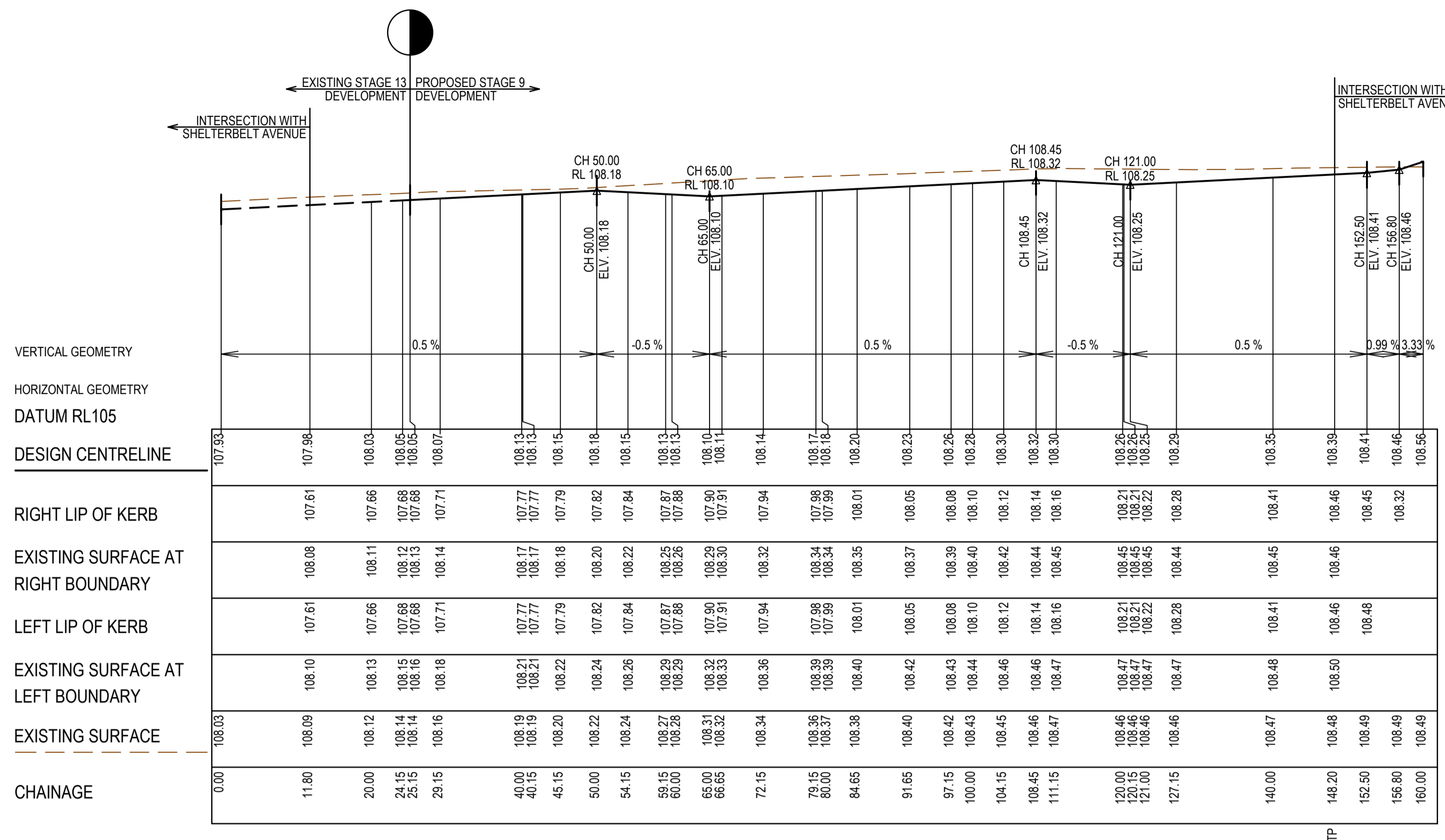


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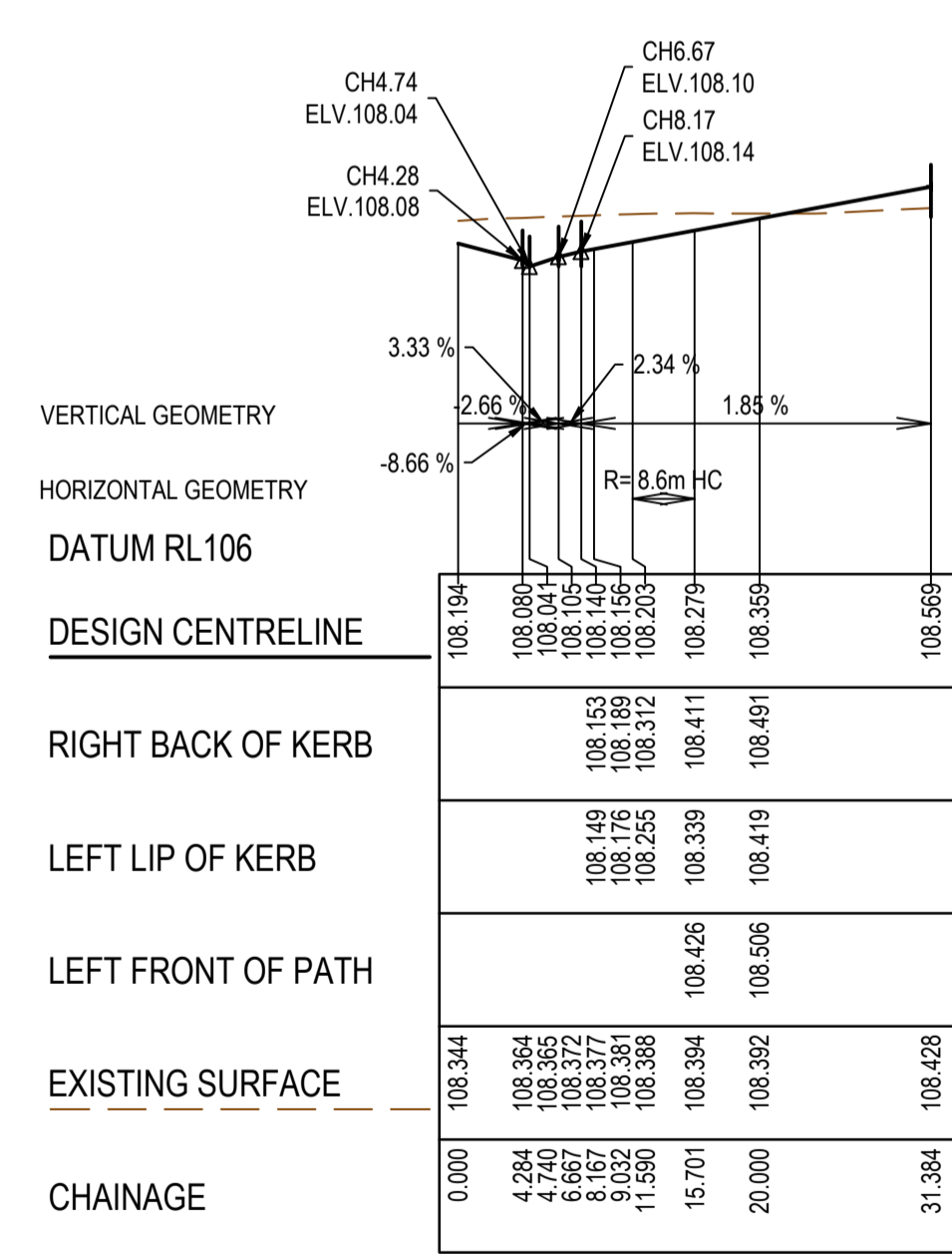
SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
342 K7	2250E-09-07	07 of 27	0



LANDMARK ROAD LONGITUDINAL SECTION



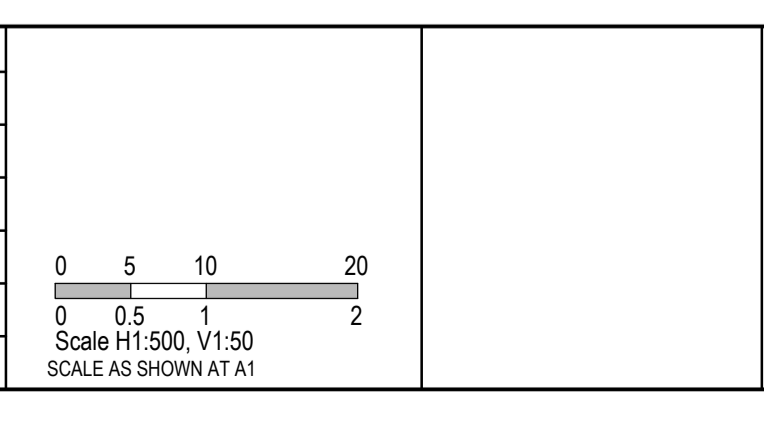
BIOTIC LANE LONGITUDINAL SECTION

MELTON
 APPROVED
 DETAILED ENGINEERING PLANS
 Mangala Jayasinghe
 ENGINEERING SERVICES
 Date: 07/07/2021

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
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ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
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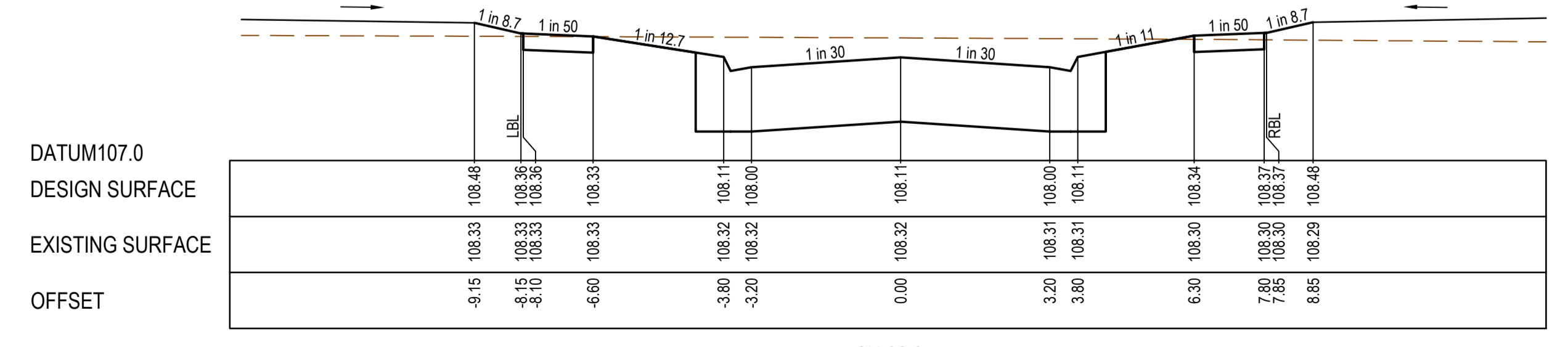
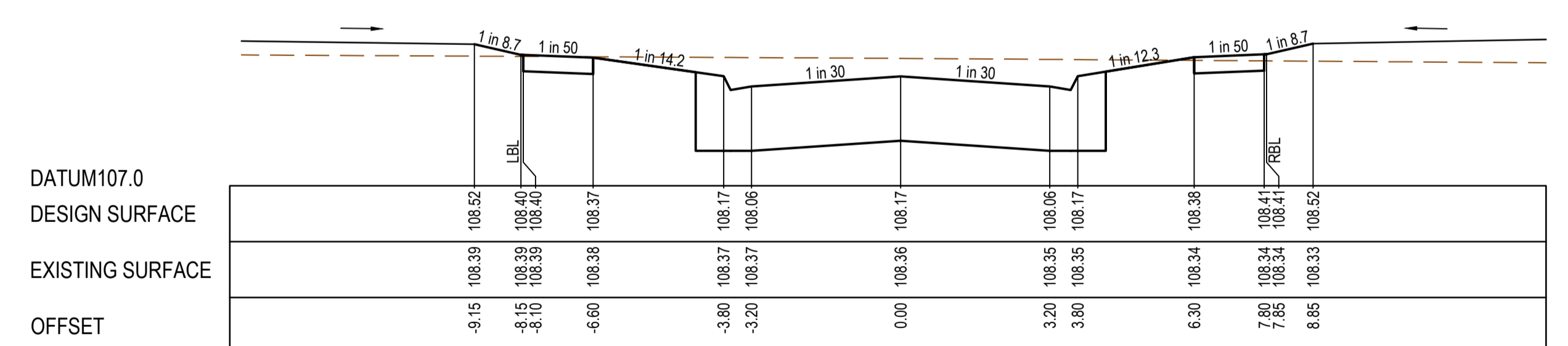
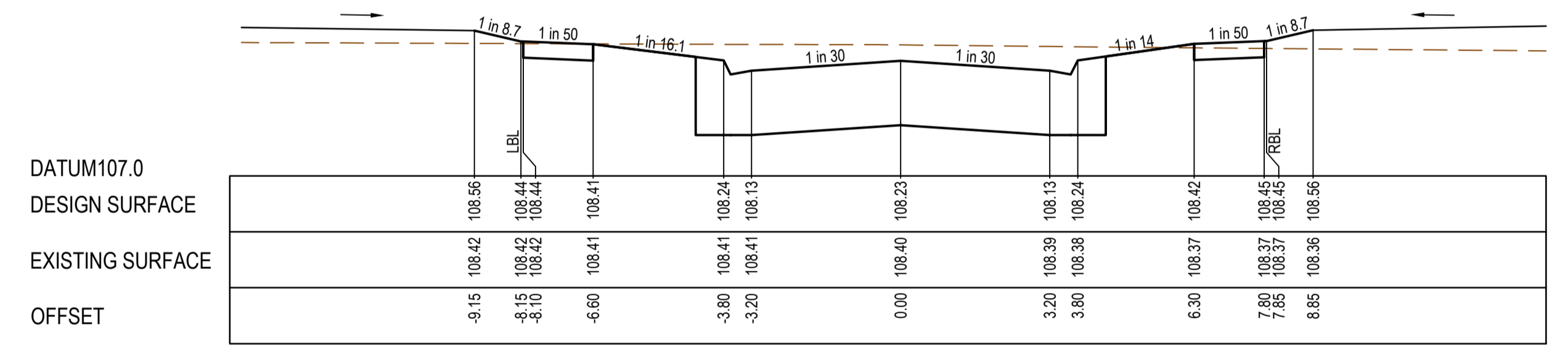
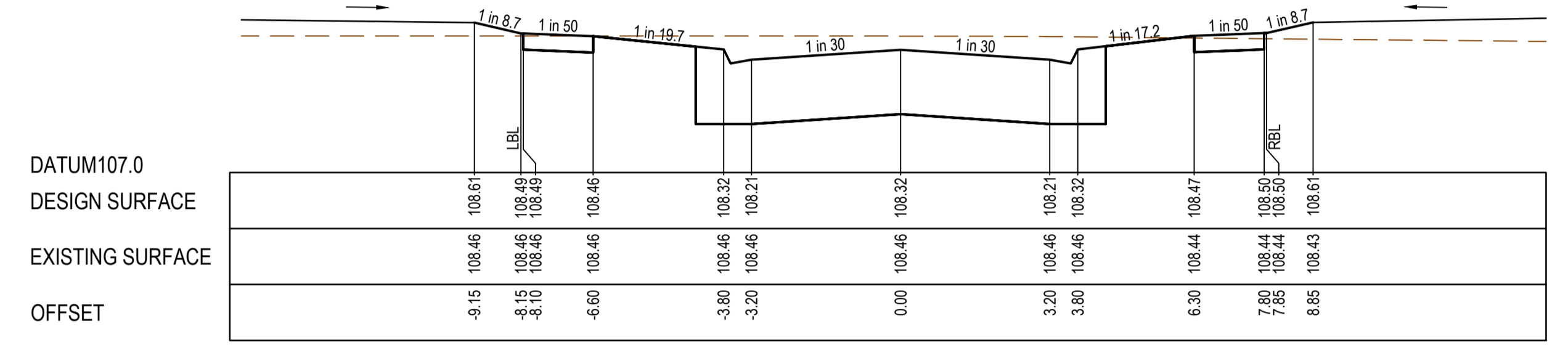
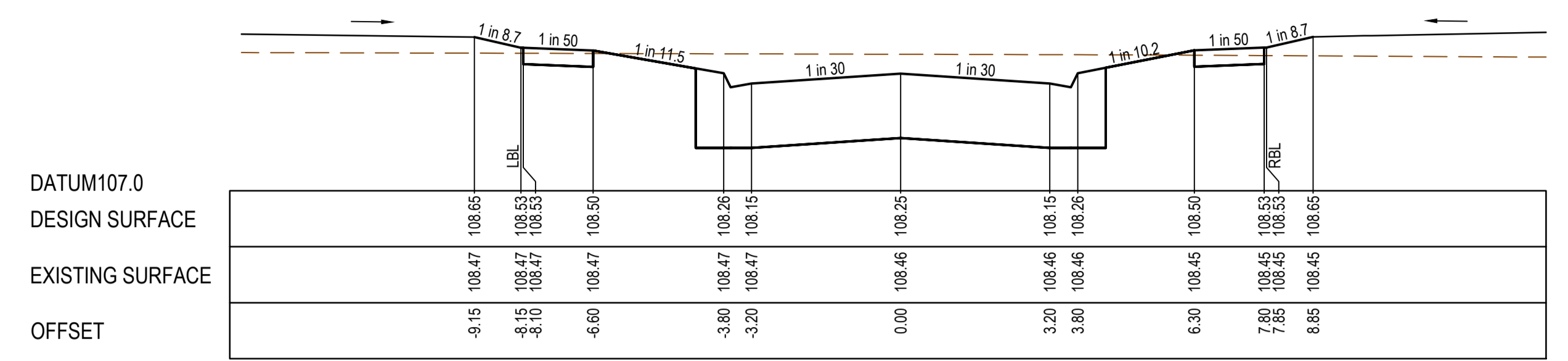
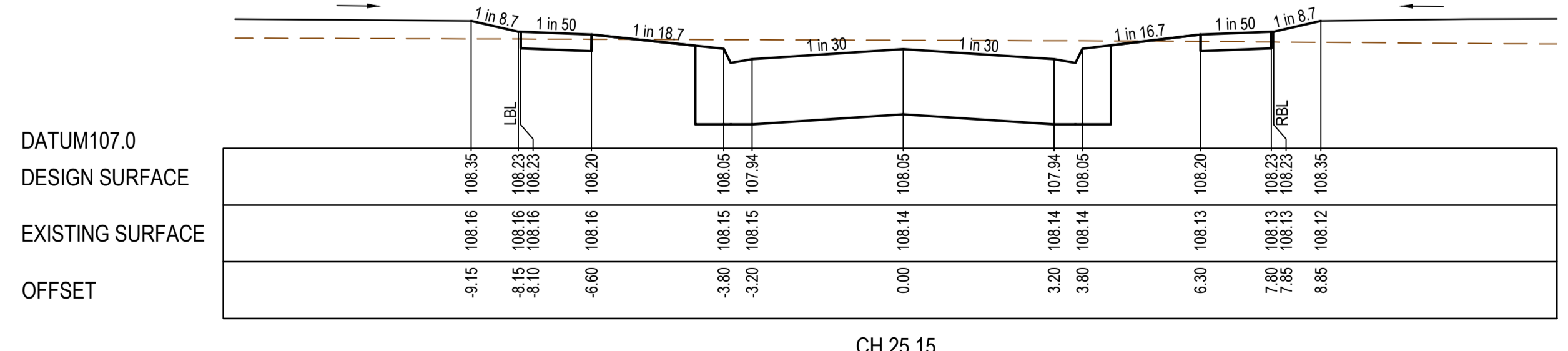
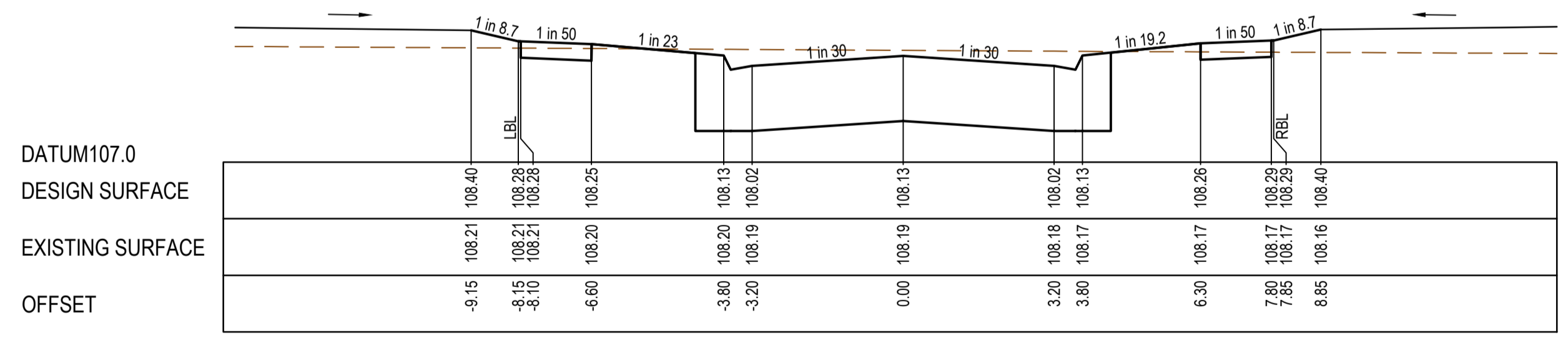
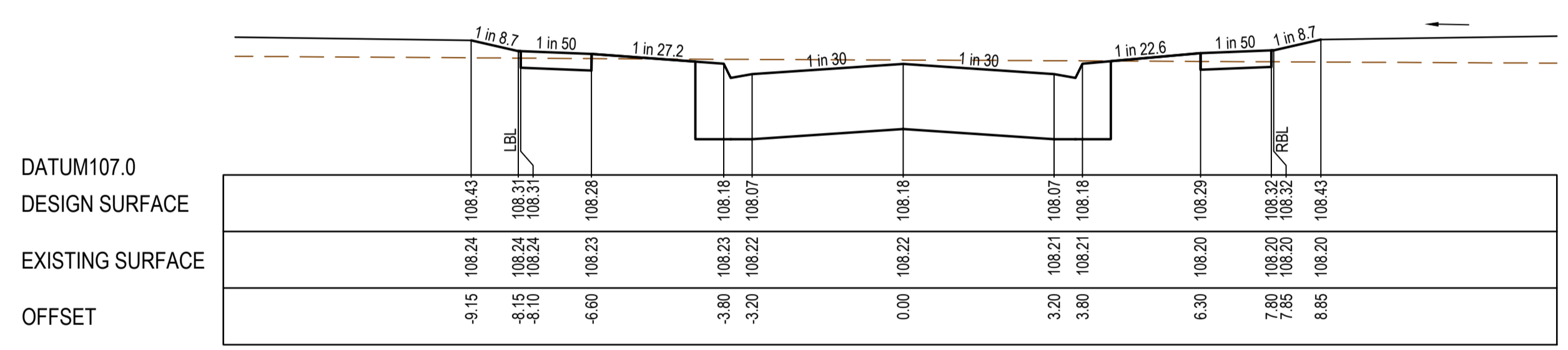
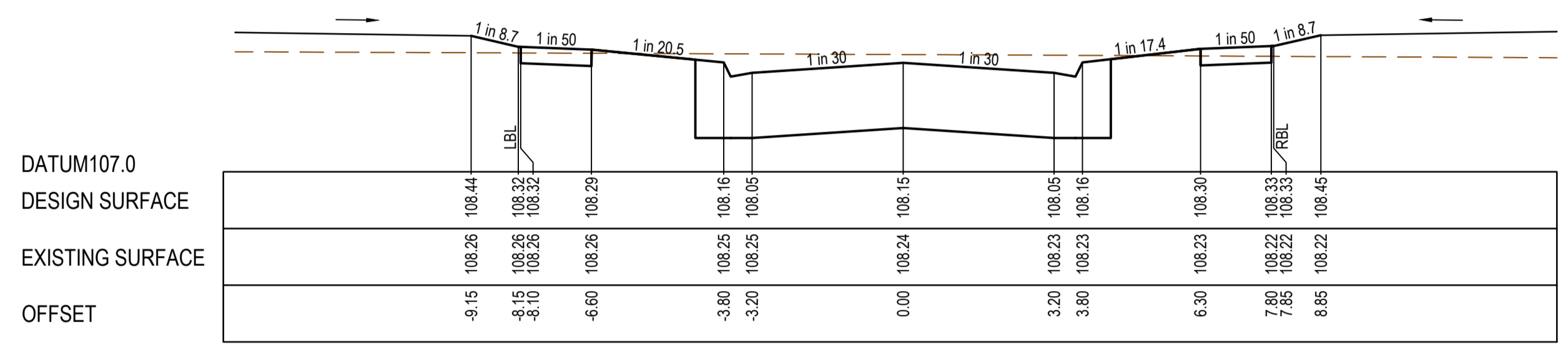
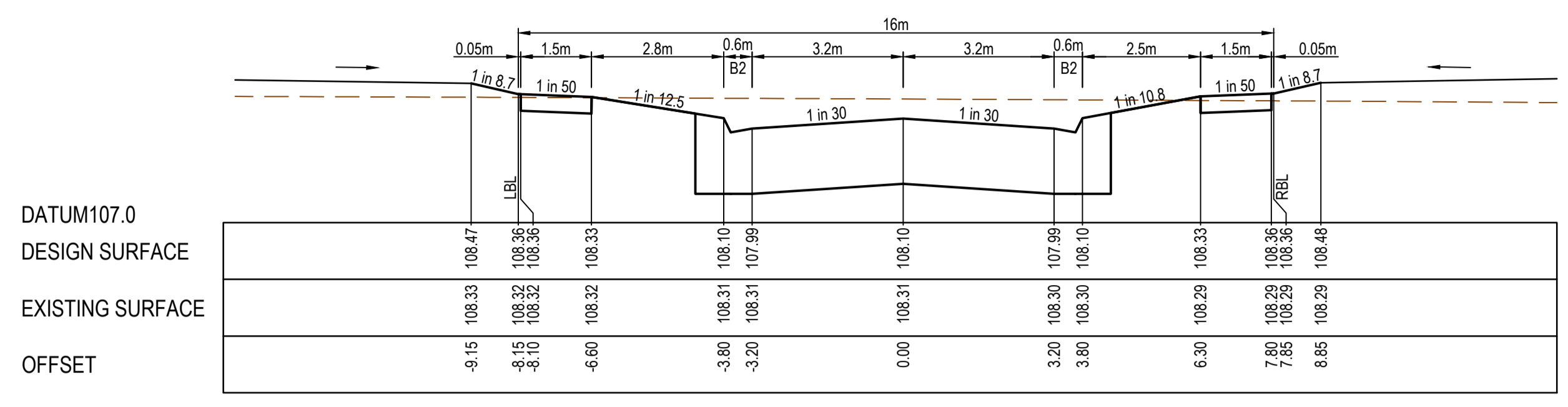


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 Member of the Surlana Jurong Group
 ABN 47 065 475 149
 Level 10, 71 Queens Road
 Melbourne, VIC 3004
 Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage Longitudinal Sections - 2		MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-08	SHEET No. 08 of 27	REVISION 0
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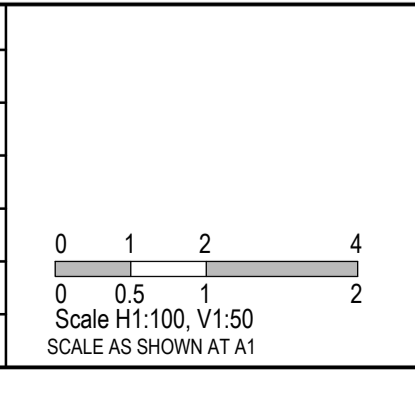
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION


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TITLE	NAME			
DRAFTER	A.Montgomery			
DESIGNER	T.Whiter			
CHECKED	E.Lam			
AUTHORISED	N.Hollow			
REFERENCE No. 1				
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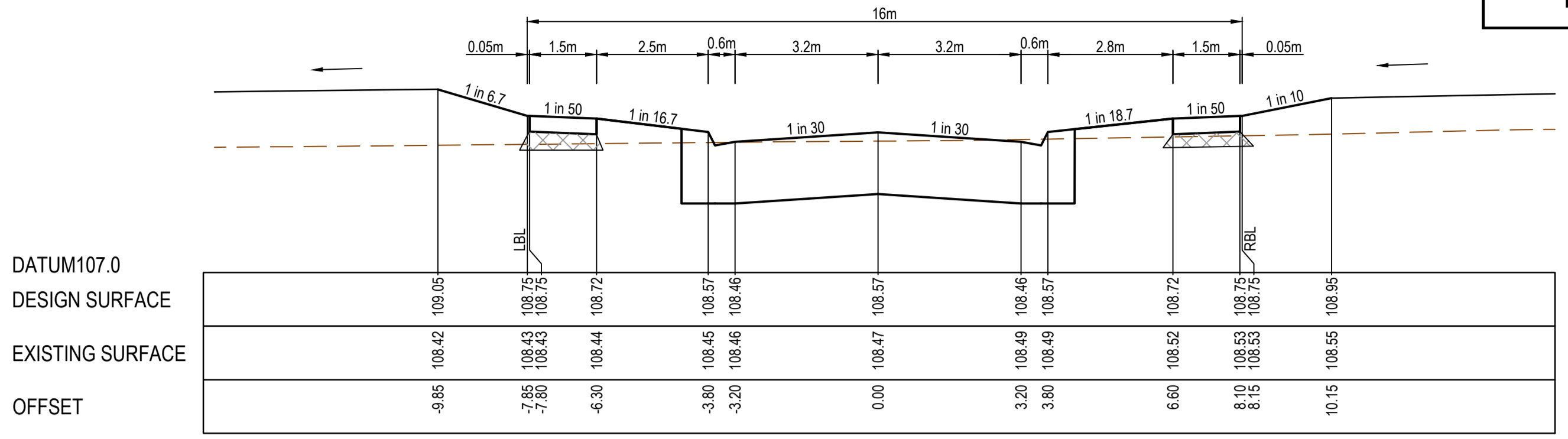


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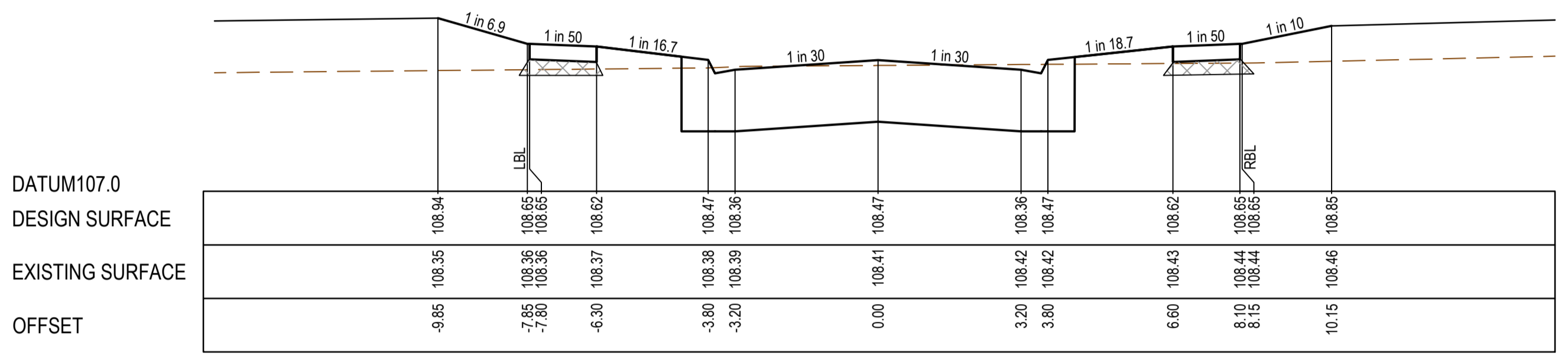
SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage Cross Sections: Landmark Road Ch 25.15- Ch 121.00		MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-09	SHEET No. 09 of 27	REVISION 0
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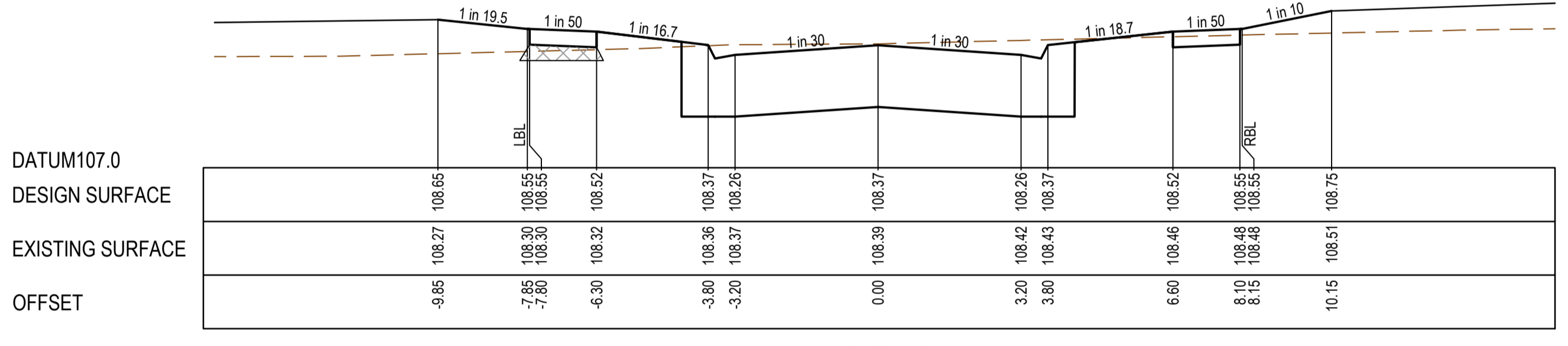

STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



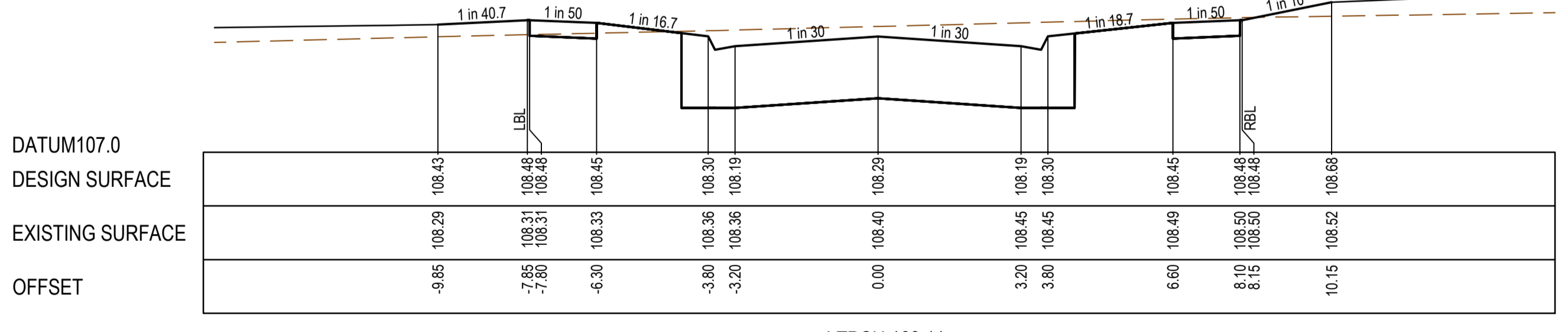
CH 202.71



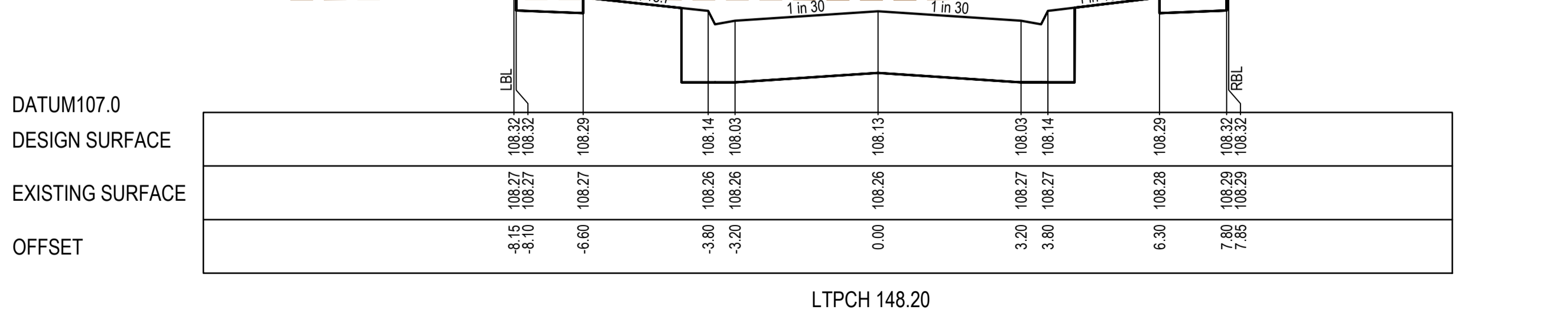
CH 190.21



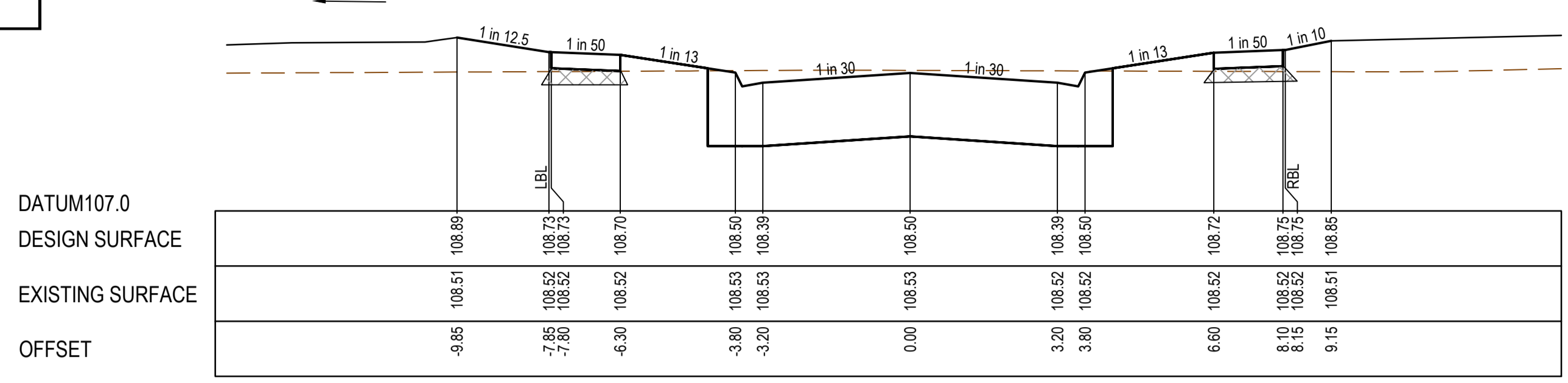
CH 177.71



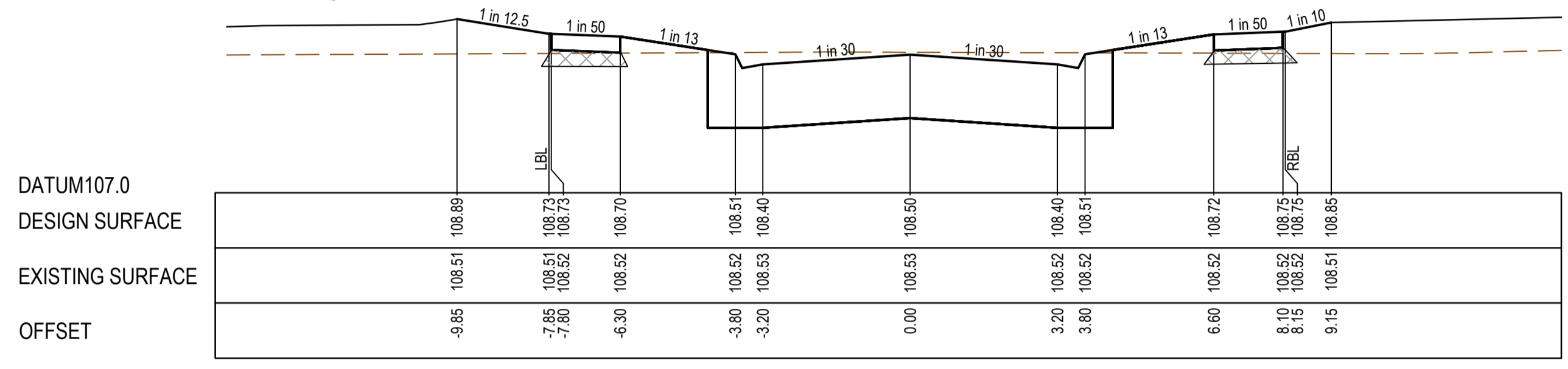
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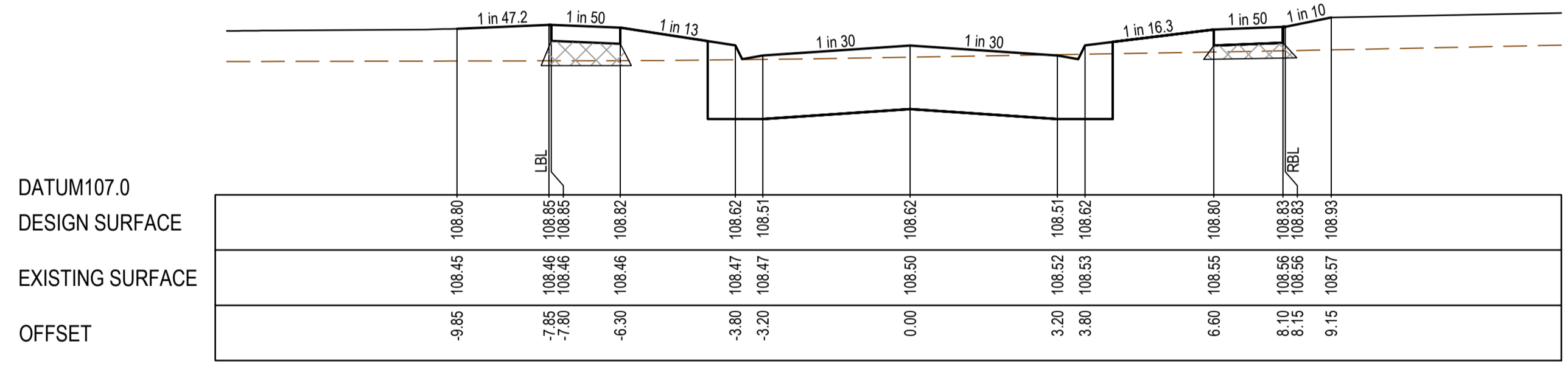
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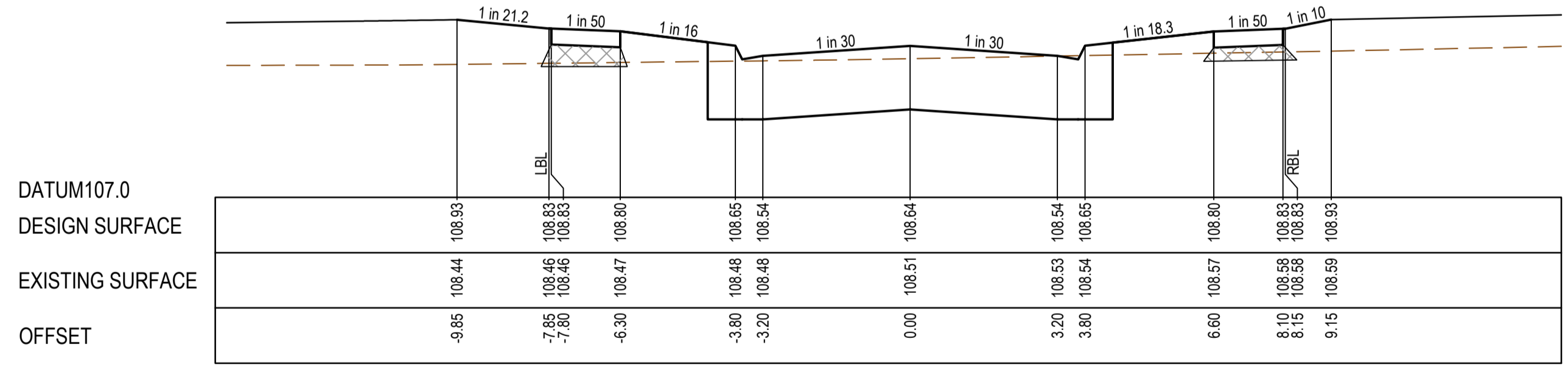
CH 248.40



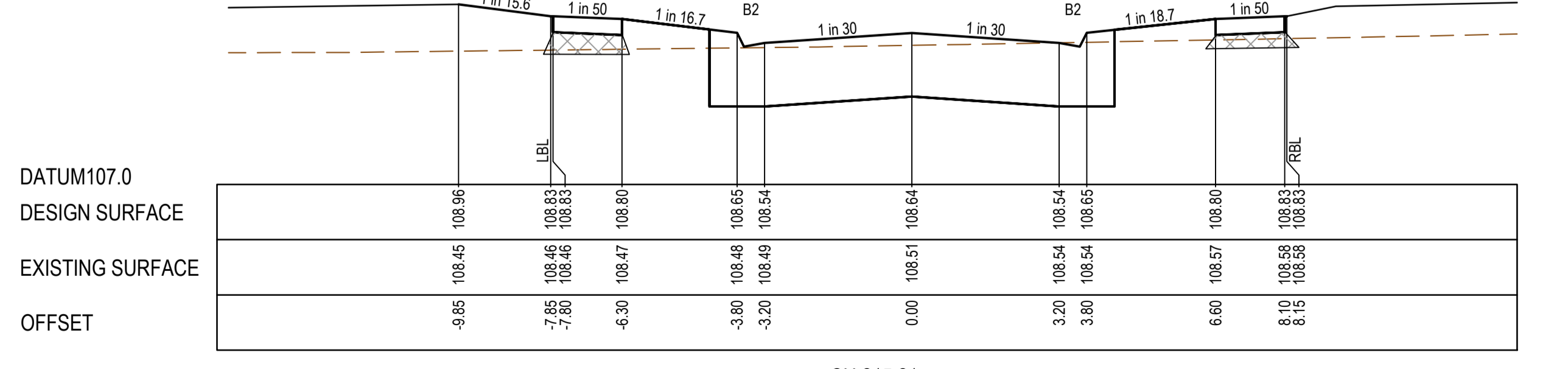
LTPCH 248.11



LTPCH 224.51



CH 216.83

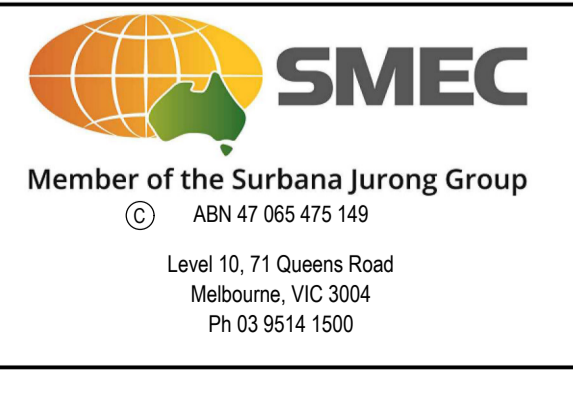
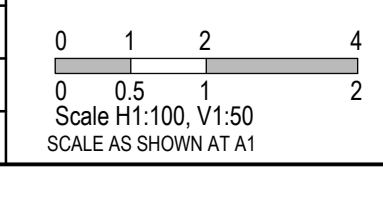


CH 215.21

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

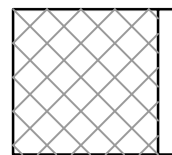
All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.	
TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

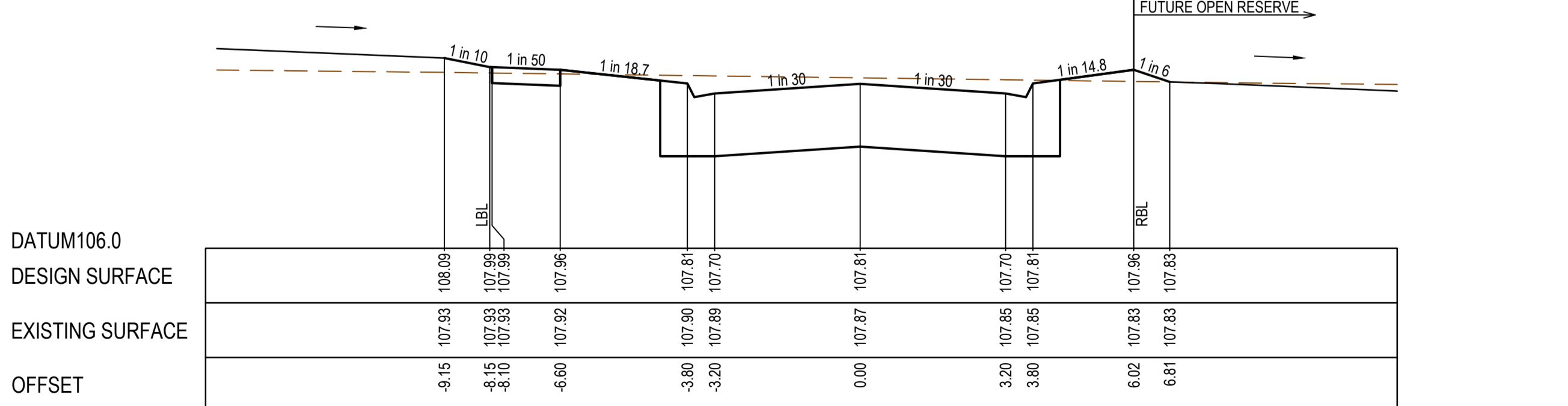
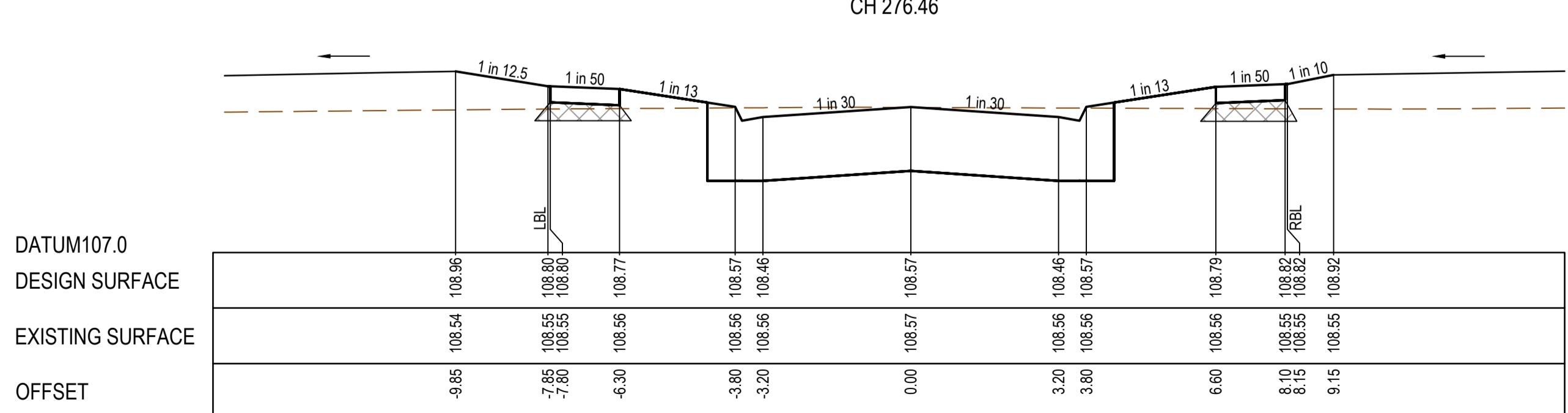
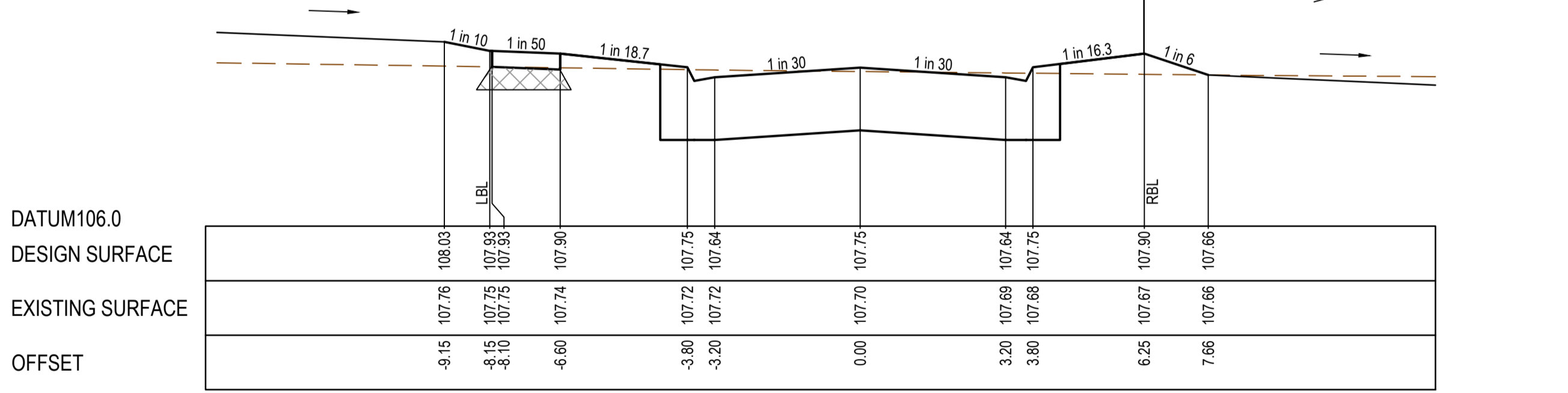
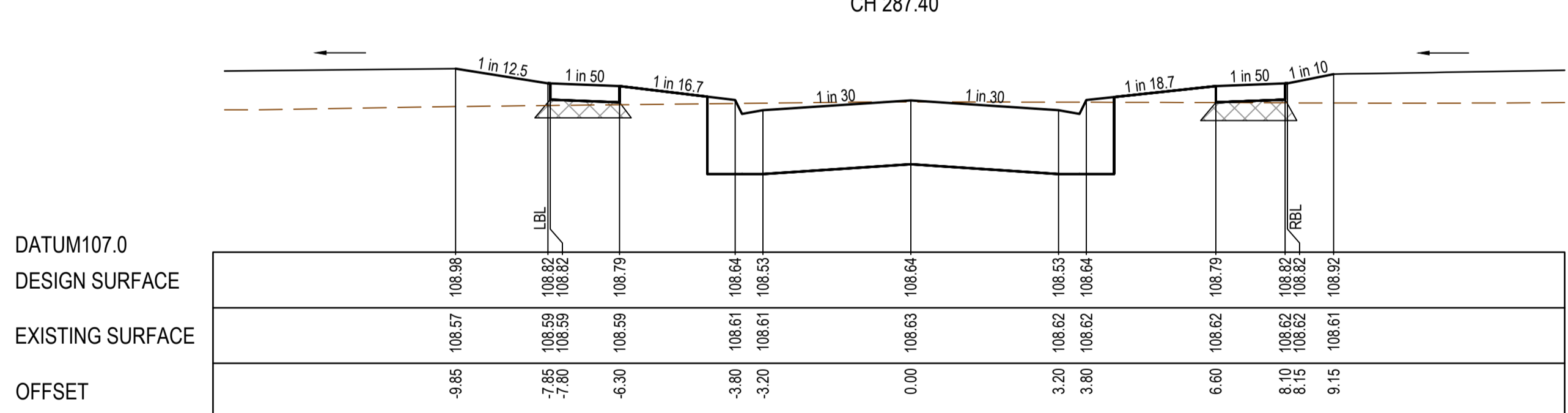
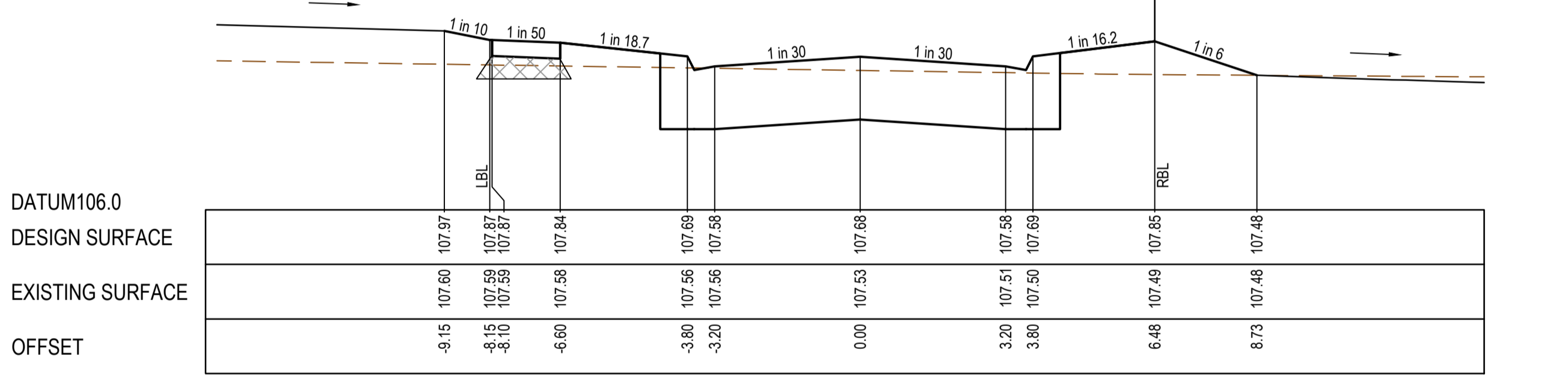
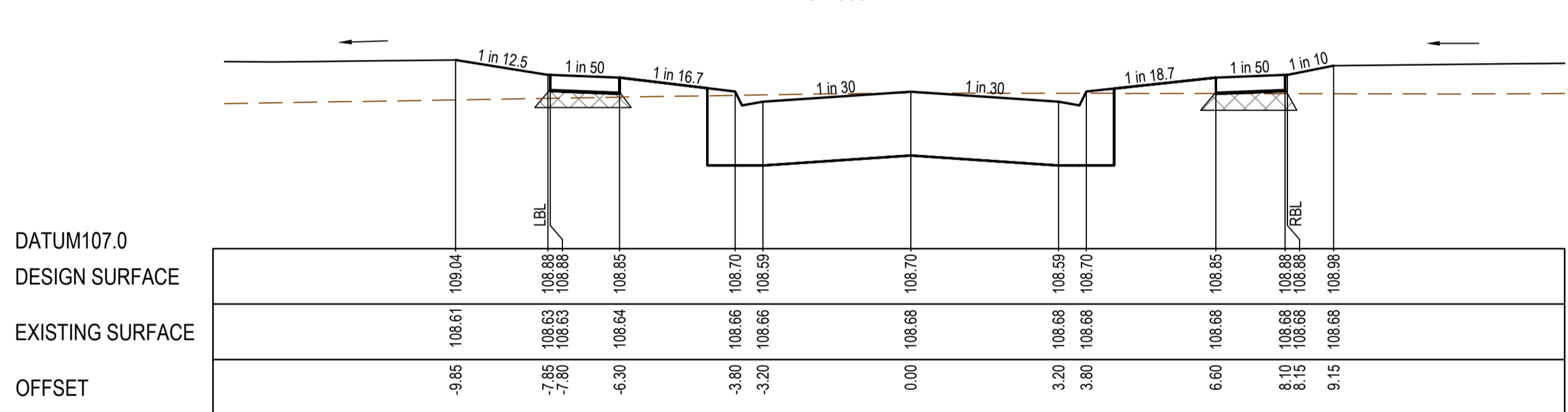
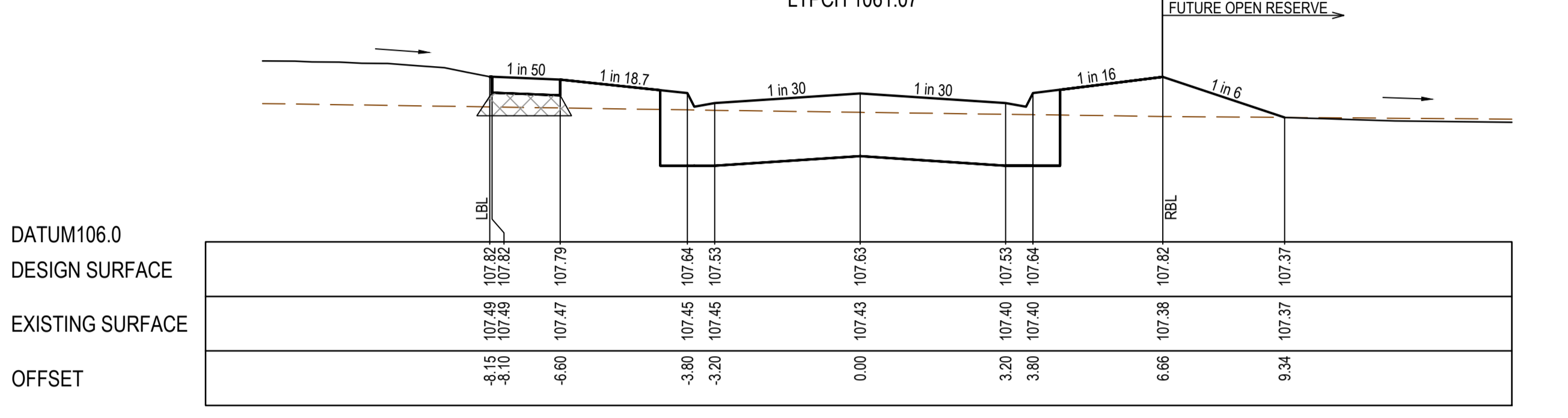
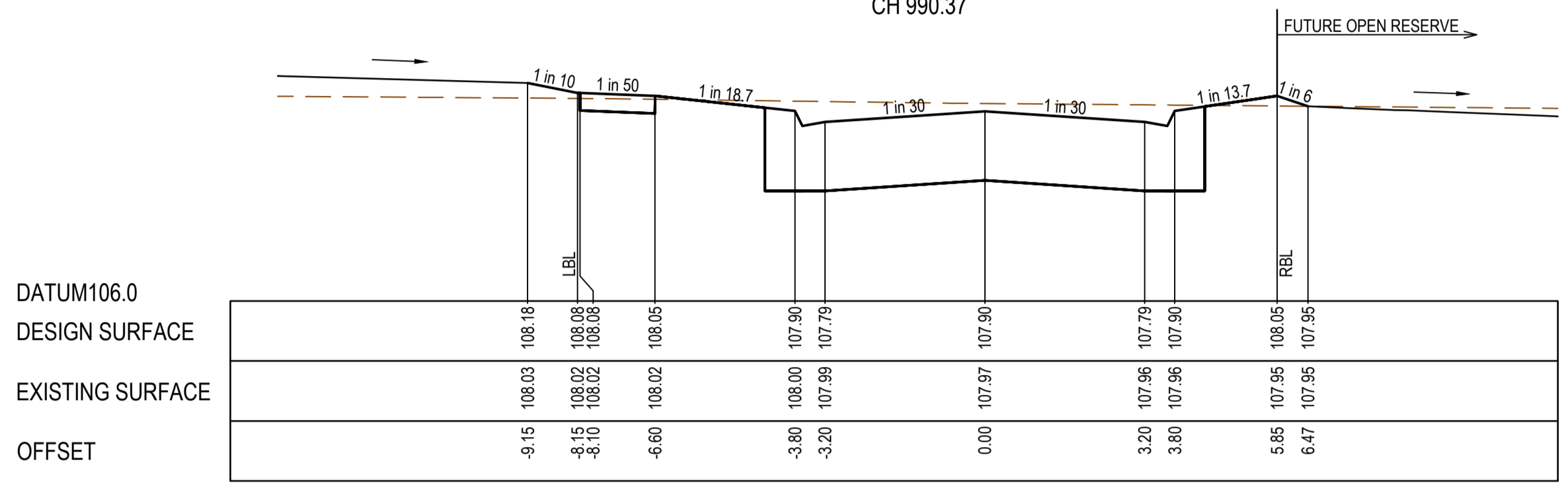
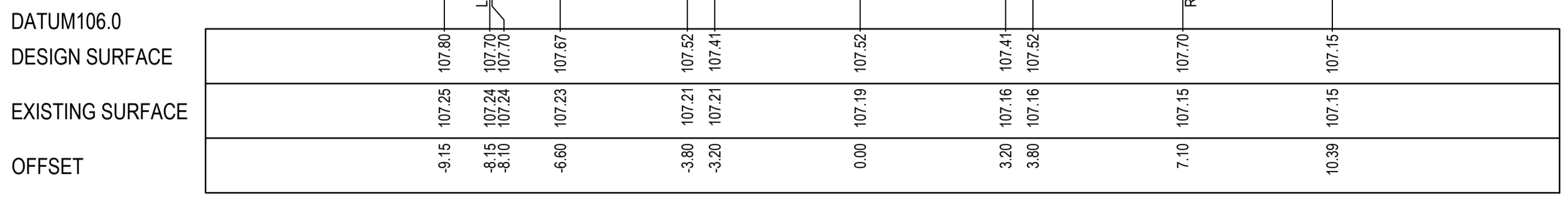
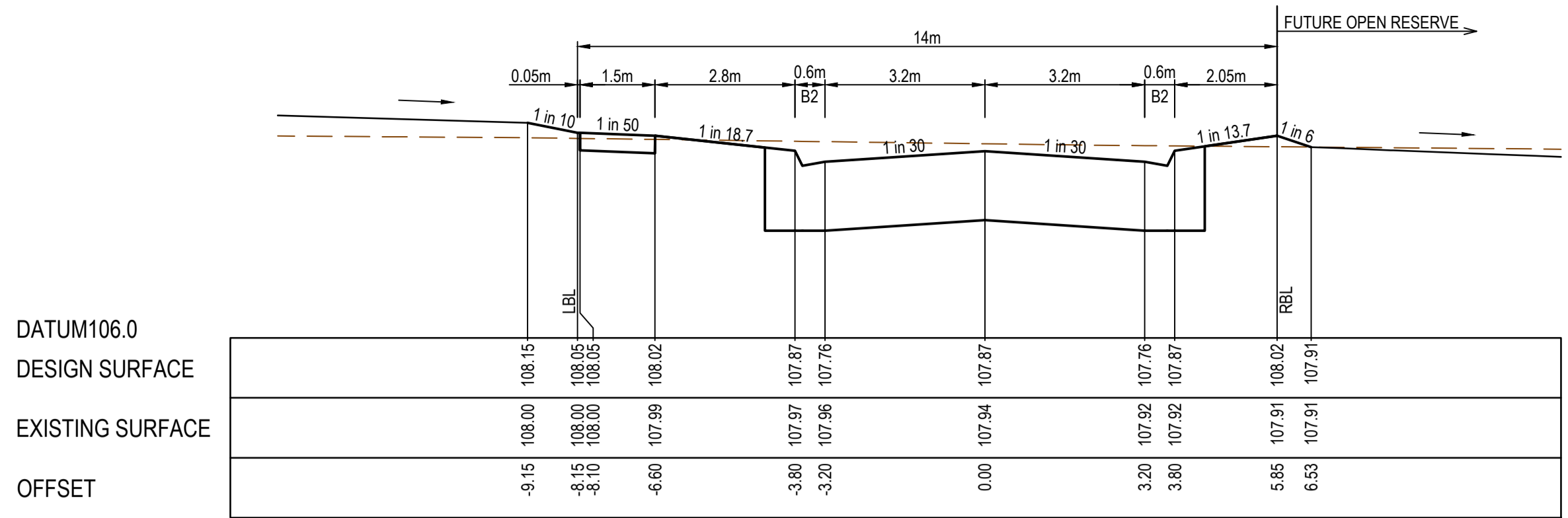


SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Roads and Drainage Cross Sections: Shelterbelt Avenue Ch 148.20 - Ch 248.40			
MELBOURNE REF	PROJECT / DRAWING No	SHEET No	REVISION
342 K7	2250E-09-12	12 of 27	0

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

 STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

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DRAFTER	A.Montgomery	DESIGNER	T.Whiter
CHECKED	E.Lam	AUTHORISED	N.Hollow
REFERENCE No. 1		REFERENCE No. 2	

0 1 2 4
 0 0.5 1 2
 Scale H1:100, V1:50
 SCALE AS SHOWN AT 1

SMEC
 Member of the **Surbana Jurong Group**
 ABN 47 065 475 149
 Level 10, 71 Queens Road
 Melbourne, VIC 3004
 Ph 03 9514 1500

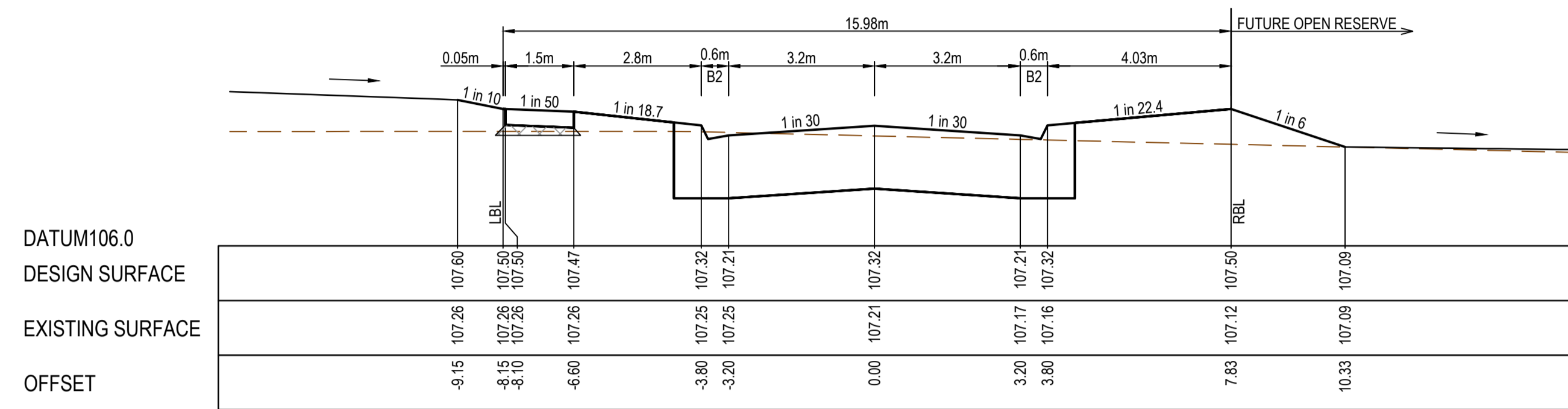
SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Cross Sections: Shelterbelt Avenue
 Ch 262.46 - Ch 1061.07

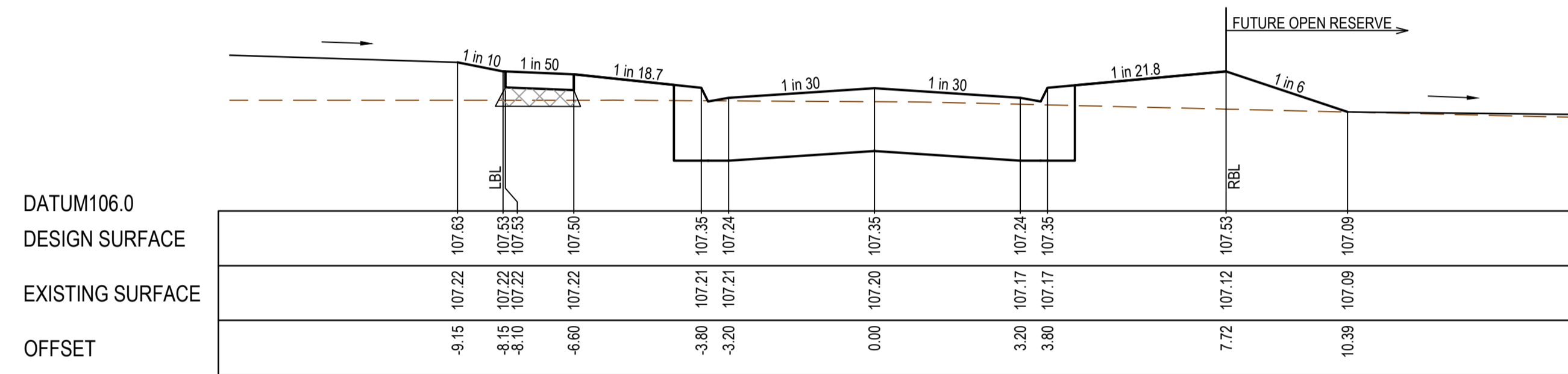
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-13	13 of 27	0

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

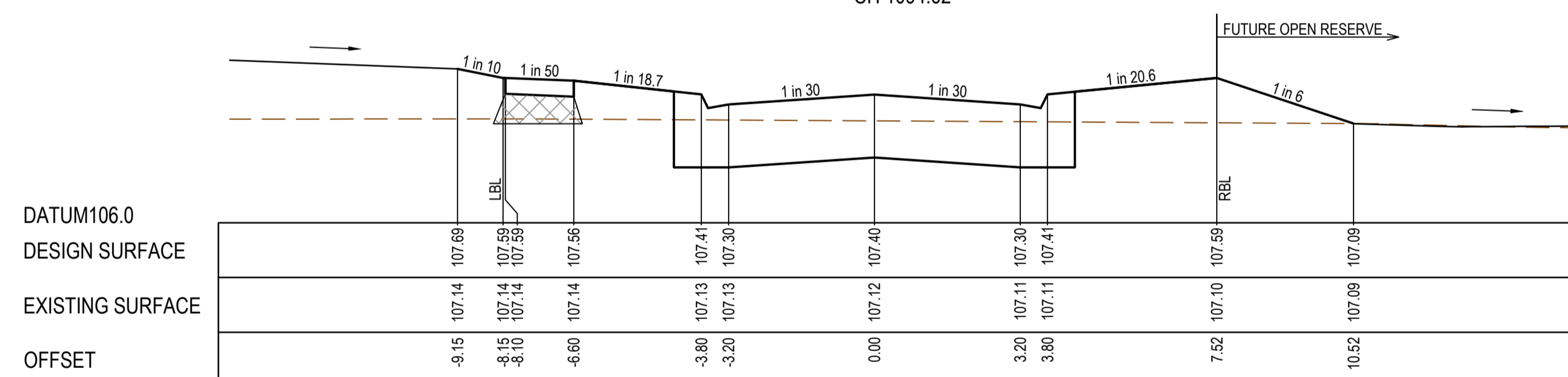
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



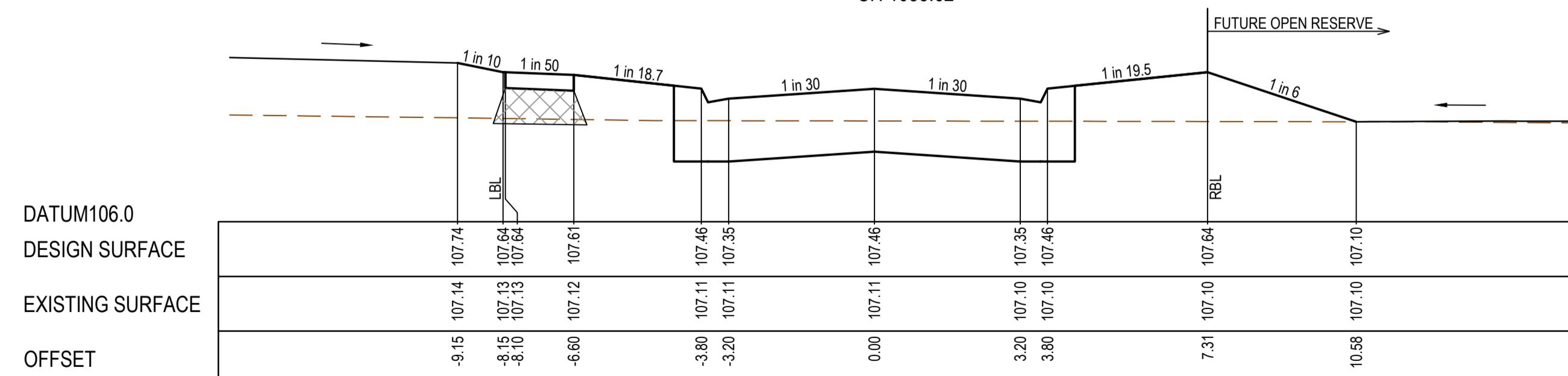
CH 1100.45



CH 1094.62

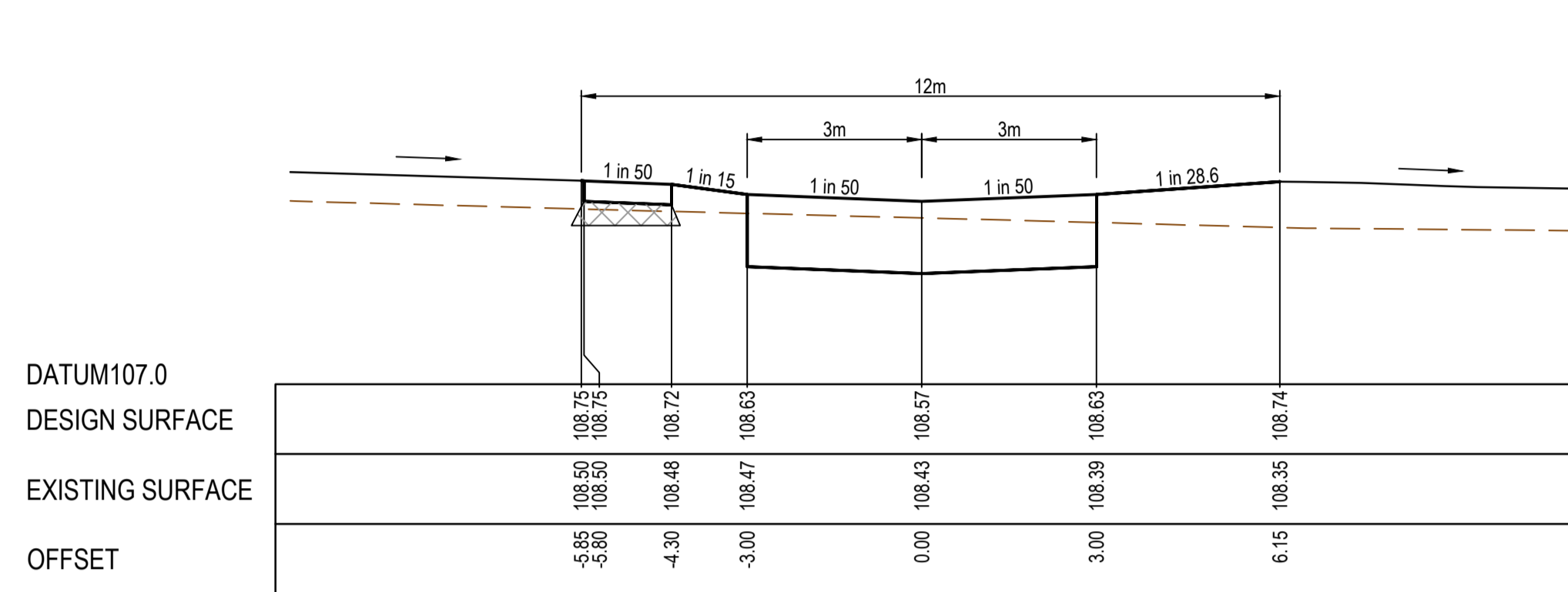


CH 1083.62

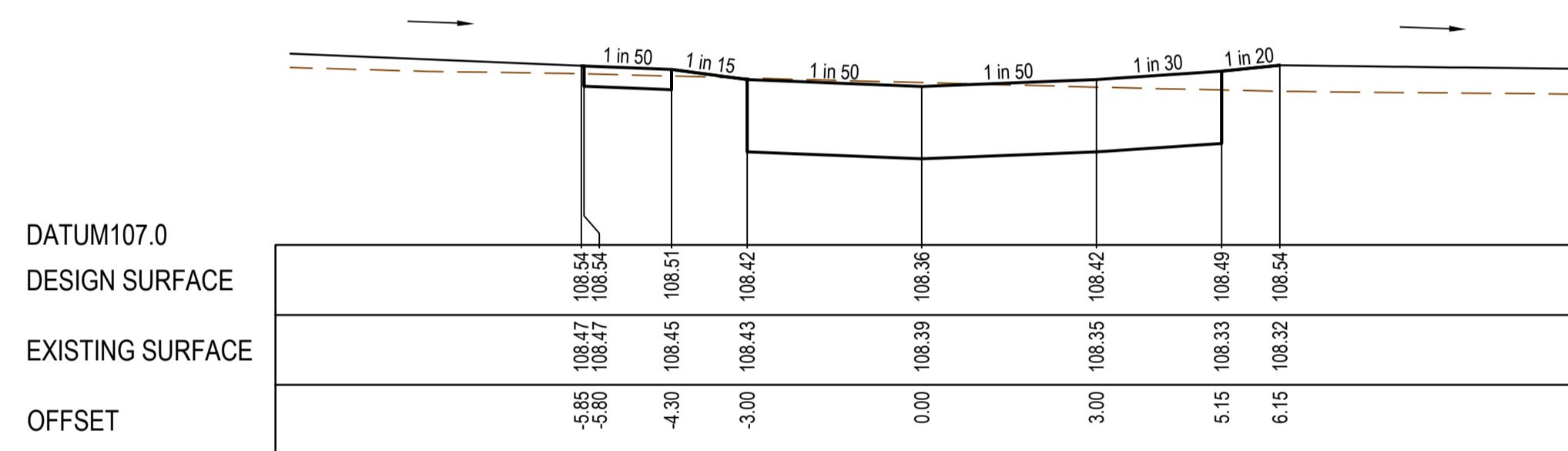


CH 1072.62

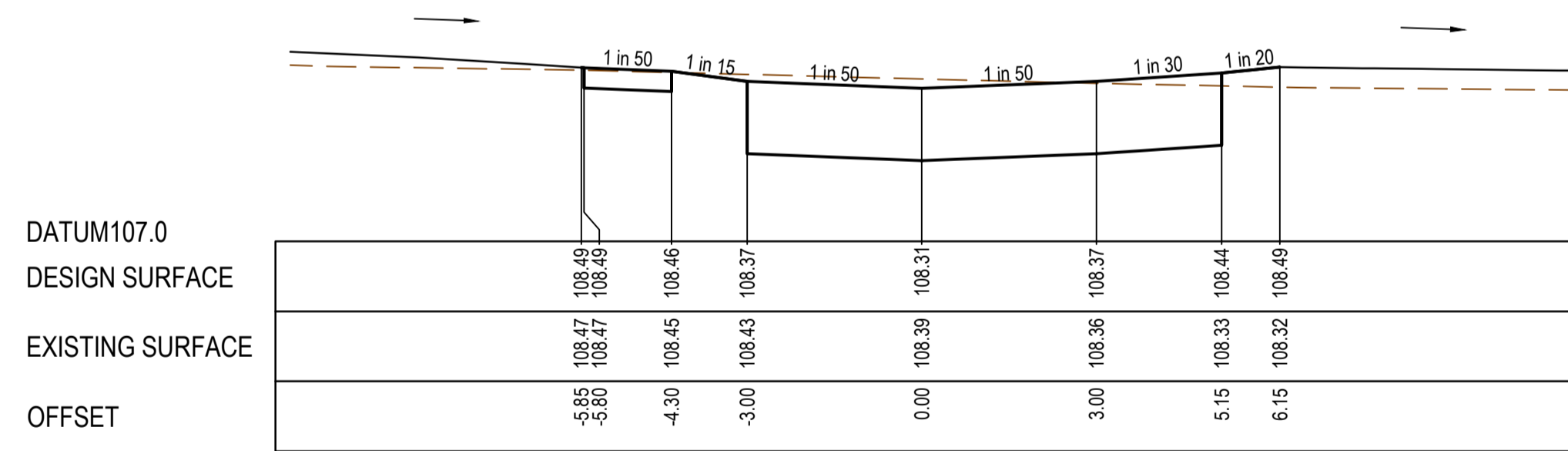
SHELTERBELT AVENUE
CROSS SECTIONS



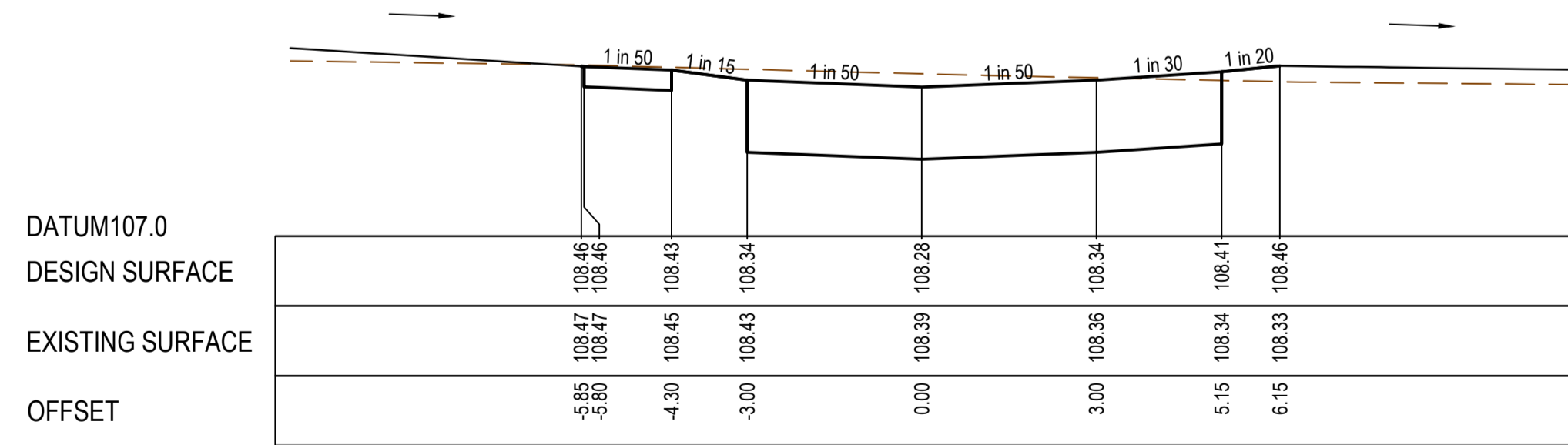
CH 31.38



CH 20.00



CH 17.52

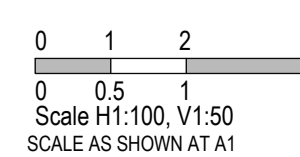


TPCH 15.70

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

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TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SMEC
Member of the **Surbana Jurong Group**
ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Cross Sections: Shelterbelt Avenue
Ch 1072.62 - Ch 1100.45 & Biotic Close Cross Sections

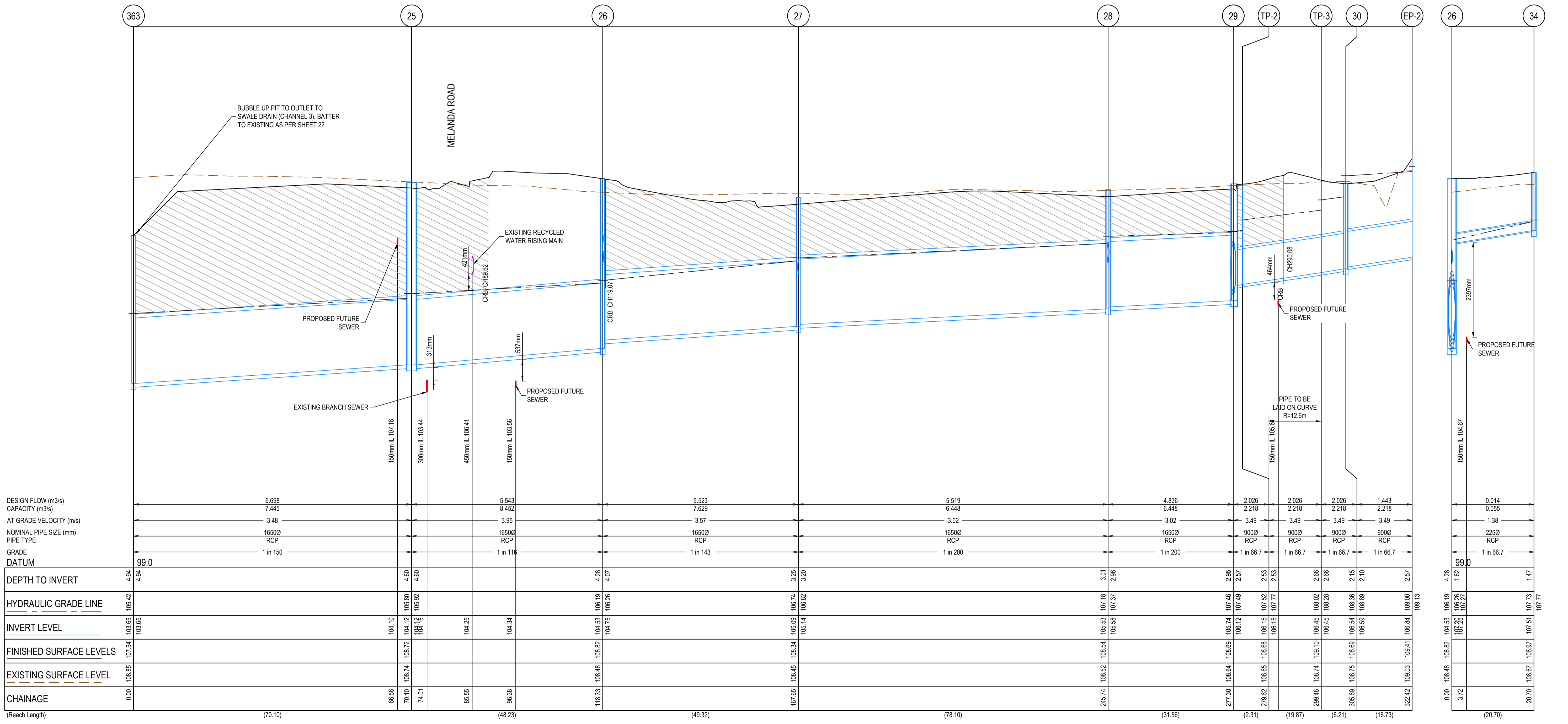
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-14	14 of 27	0



LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

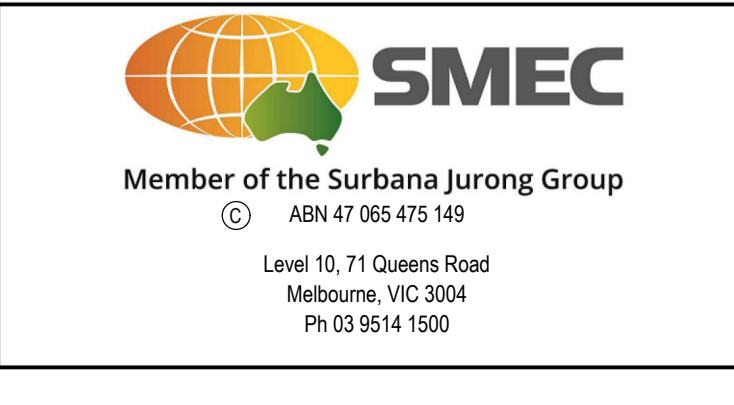
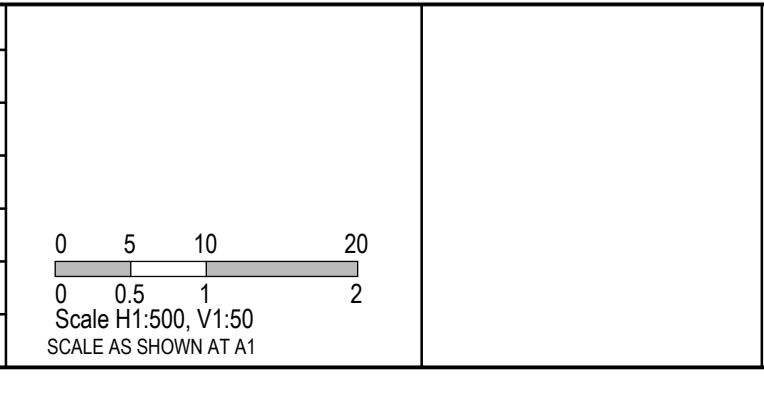
- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE
 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ)
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SEVENTH BEND

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-15	15 of 27	0

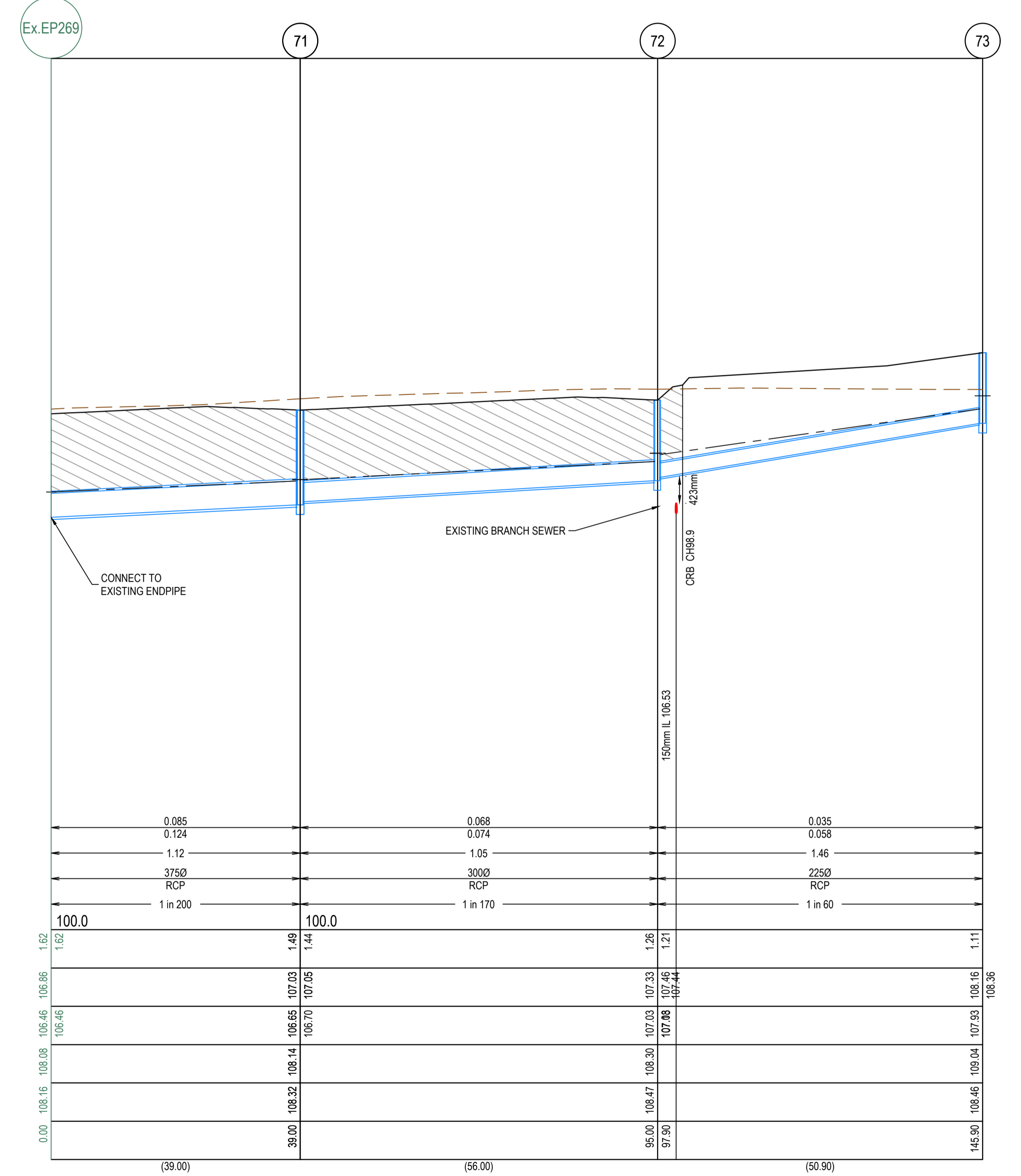
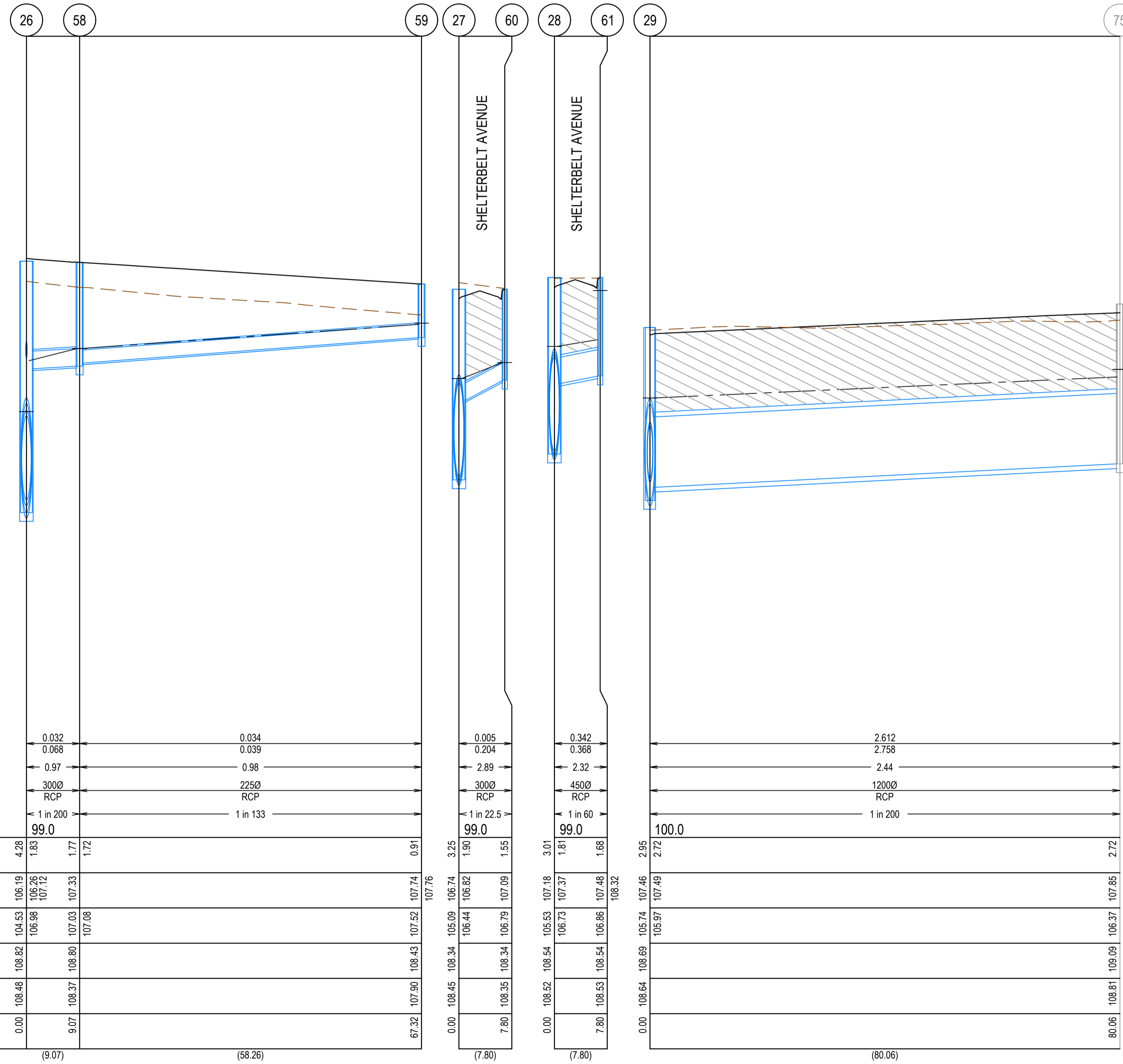
Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1



LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
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 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE
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 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



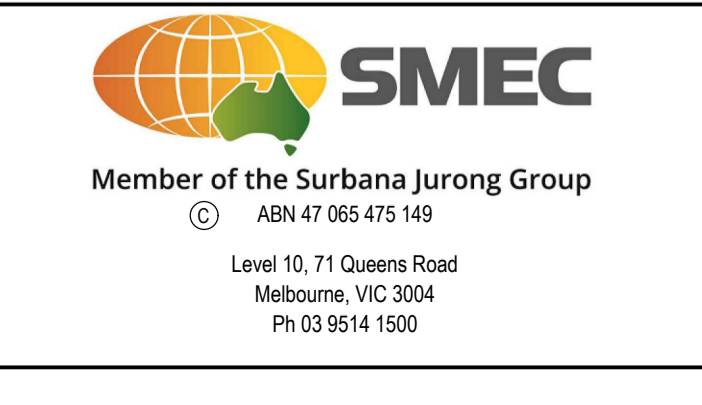
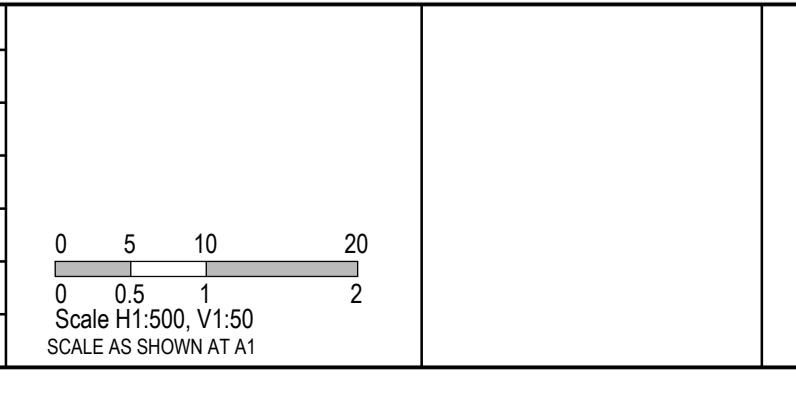
DESIGN FLOW (m3/s)	CAPACITY (m3/s)	AT GRADE VELOCITY (m/s)	NOMINAL PIPE SIZE (mm)	PIPE TYPE	GRADE	DATUM
0.032	0.068	0.97	3000	RCP	1 in 200	99.0
0.034	0.039	0.98	2250	RCP	1 in 133	99.0
0.005	0.204	2.89	3000	RCP	1 in 22.5	99.0
0.342	0.368	2.32	4500	RCP	1 in 60	99.0
2.612	2.758	2.44	12000	RCP	1 in 200	100.0

DEPTH TO INVERT	HYDRAULIC GRADE LINE	INVERT LEVEL	FINISHED SURFACE LEVELS	EXISTING SURFACE LEVEL	CHAINAGE
4.28	106.26	104.53	108.82	108.48	0.00
1.83	107.12	106.98	108.82	108.48	9.07
1.77	107.33	107.03	108.80	108.37	67.32
1.72	107.08	107.08	108.80	108.37	107.90
0.91	107.74	107.52	108.43	107.74	145.90
3.25	106.74	105.09	108.34	108.45	180.00
1.90	106.82	106.44	108.82	108.45	187.80
1.55	107.09	106.79	108.34	108.35	194.80
3.01	107.18	105.53	108.54	108.52	201.80
1.81	107.37	106.73	108.54	108.53	208.80
1.68	107.48	106.86	108.54	108.53	215.80
1.68	108.32	106.86	108.54	108.53	222.80
2.95	107.46	105.74	108.69	108.64	229.80
2.72	107.69	105.97	108.69	108.64	236.80
2.72	107.85	106.37	108.85	108.81	243.80
2.57	107.97	106.52	108.99	108.81	250.80

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



MELWAYS REF		PROJECT / DRAWING No		SHEET No	REVISION
342 K7	2250E-09-16	16 of 27	0		

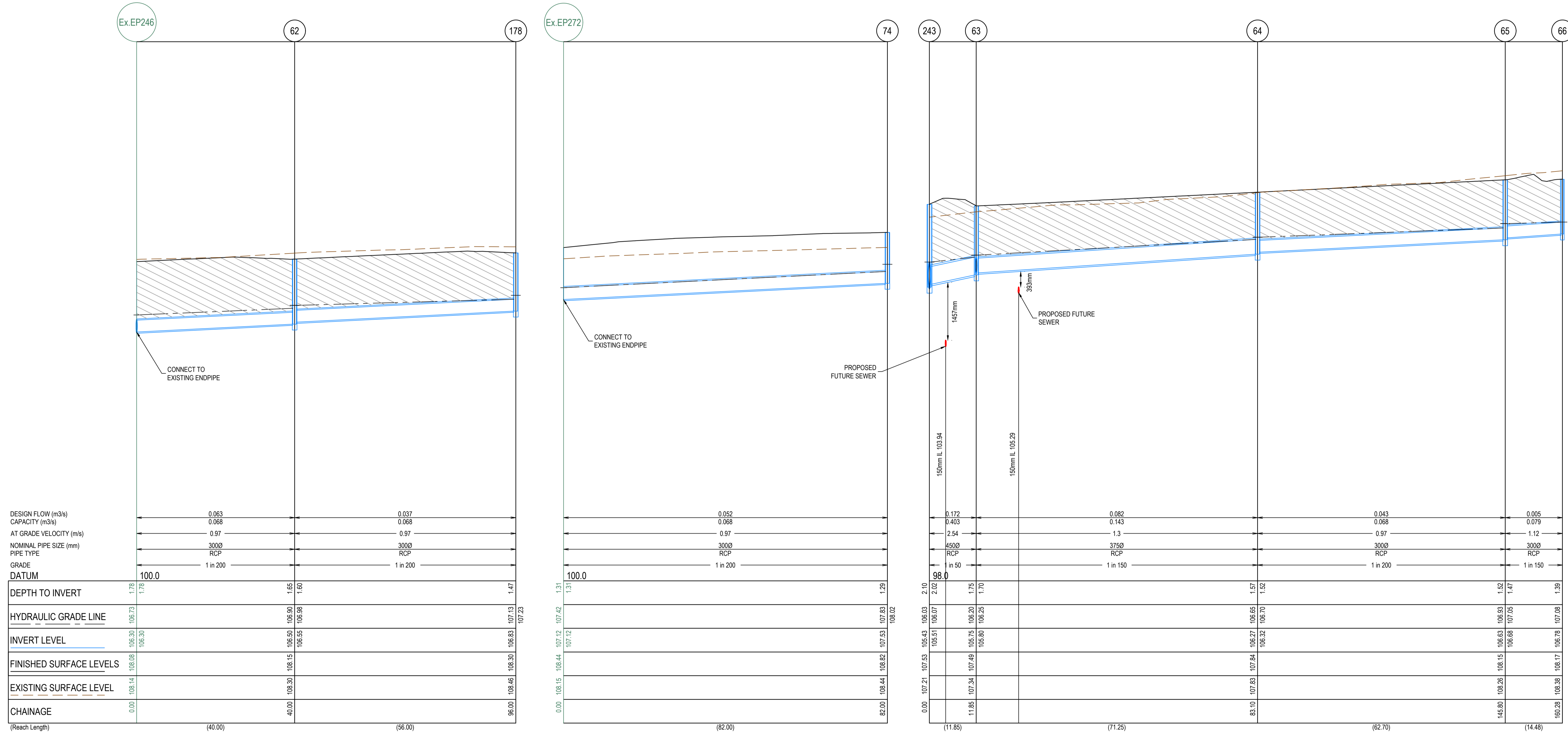
Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 2



LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

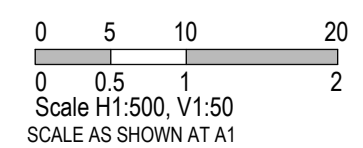
- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER.
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE.
 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



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TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 3

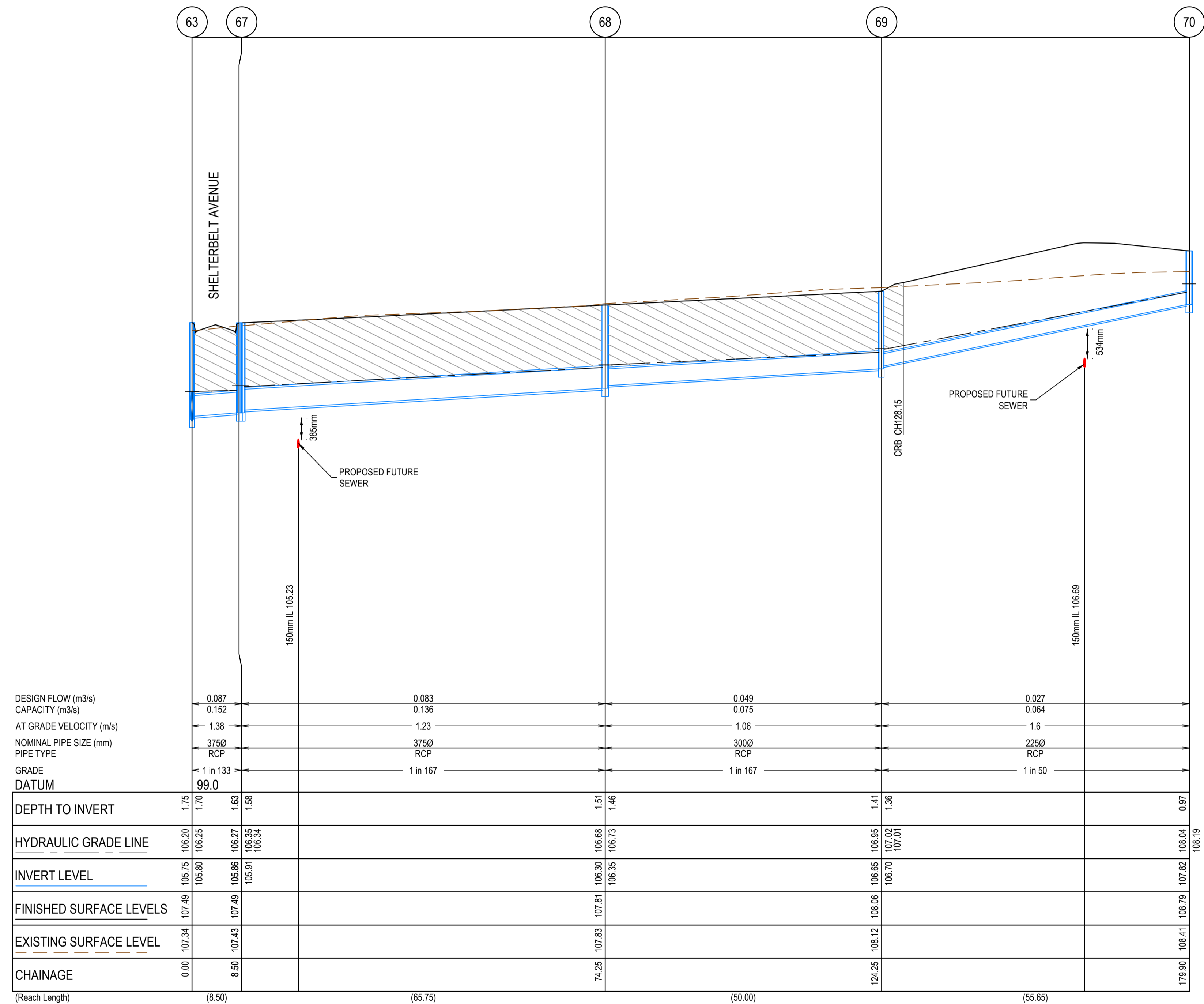
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-17	17 of 27	0

LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

- NOTES**
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MELTON
 APPROVED
 DETAILED ENGINEERING PLANS
 Mangala Jayasinghe
 ENGINEERING SERVICES
 Date: 07/07/2021



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
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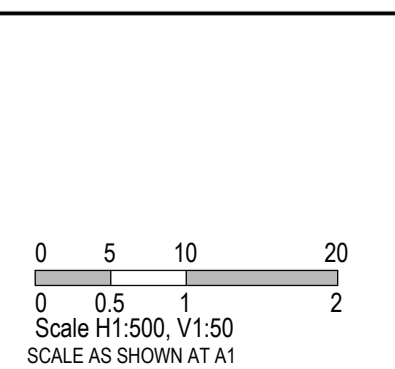
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Quality Management - ISO 9001
 Global-Mark.com.au®

Site Management - AS/NZS 1801
 Global-Mark.com.au®

Environmental Management - ISO 14001
 Global-Mark.com.au®

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SMEC
 Member of the Surbana Jurong Group
 ABN 47 065 475 149
 Level 10, 71 Queens Road
 Melbourne, VIC 3004
 Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 4

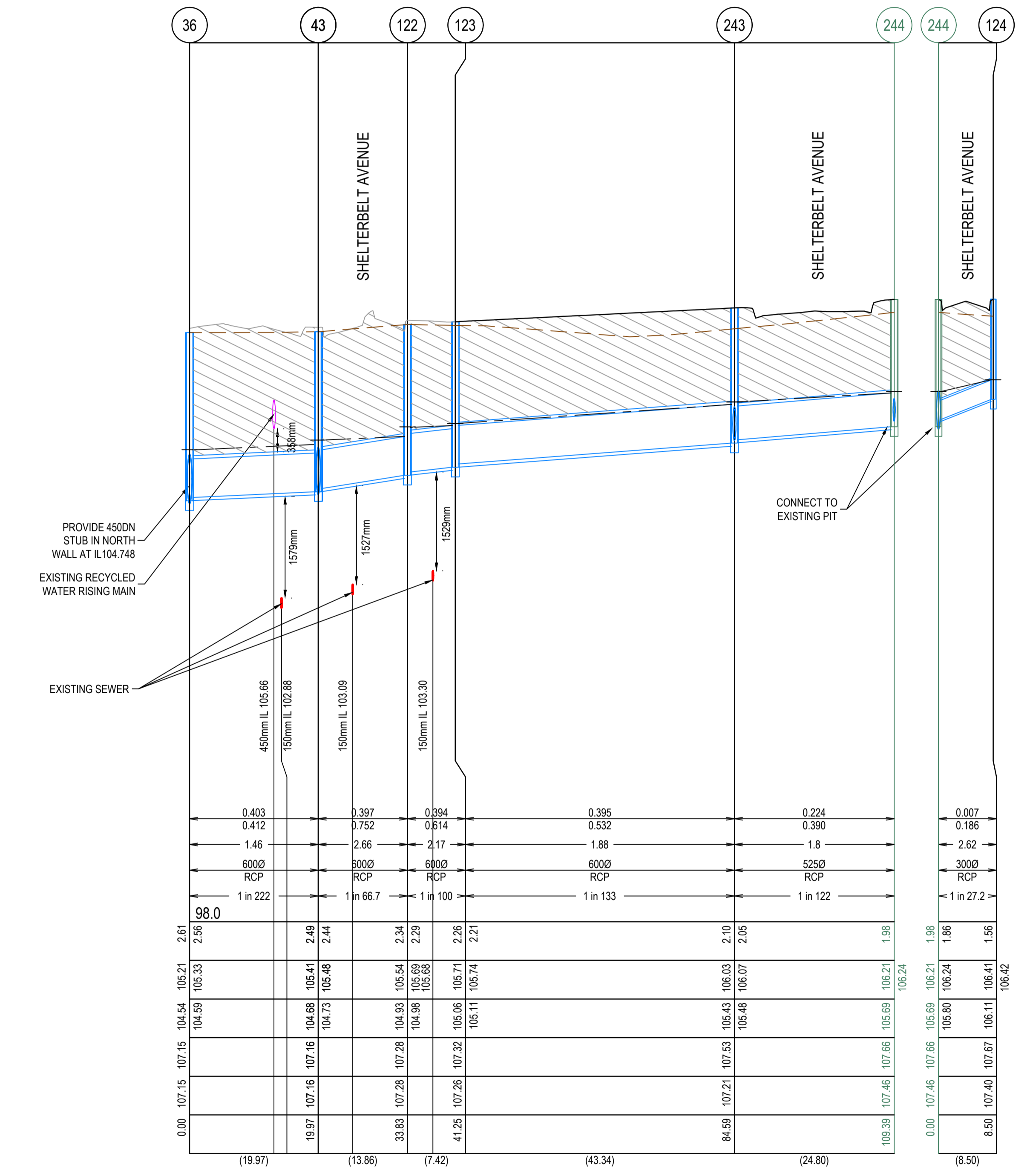
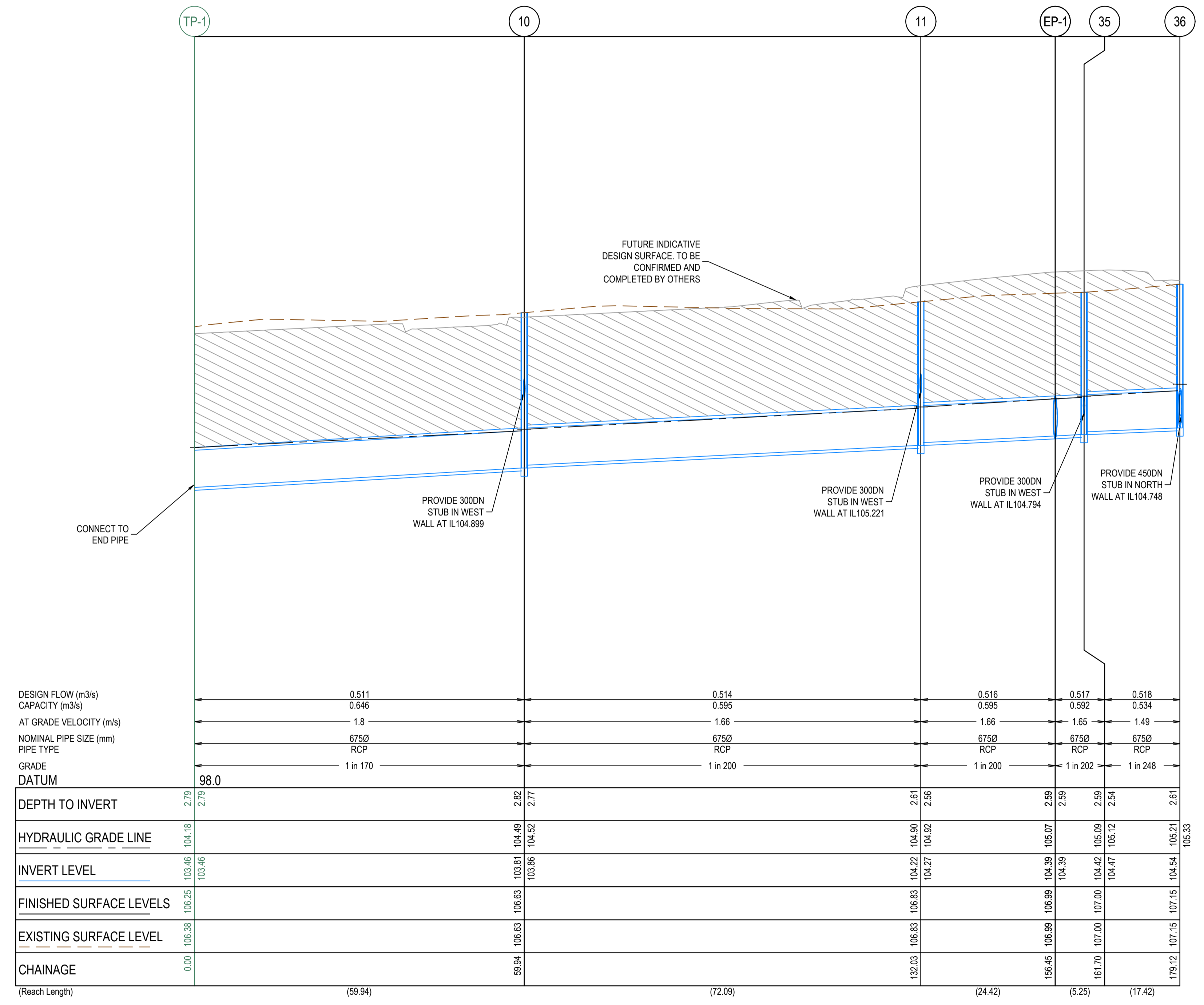
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-18	18 of 27	0



LEGEND	
	EXISTING SURFACE
	DESIGN SURFACE
	DRAINAGE PIPE/PIT
	EXISTING DRAINAGE PIPE/PIT
	HYDRAULIC GRADE LINE
	CRUSHED ROCK BACKFILL

- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER
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 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
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 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.

CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

Scale 1:500
 Scale AS SHOWN AT A1

SMEC
 Member of the Surlana Jurong Group
 Level 10, 71 Queens Road
 Melbourne, VIC 3004
 Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Drainage Longitudinal Sections - 5

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-19	SHEET No. 19 of 27	REVISION 0
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APPROVED
DETAILED ENGINEERING PLANS
 Mangala Jayasinghe
 ENGINEERING SERVICES
 Date: 07/07/2021

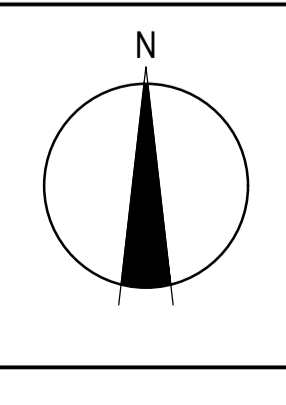
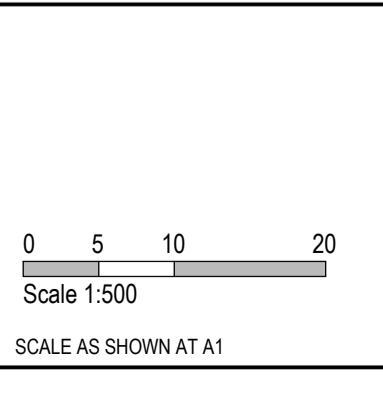
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4	286614.0755	5822431.1381	49	286520.2309	5822144.5731
5	286613.0200	5822429.8517	50	286525.8419	5822215.5469
6	286613.9139	5822429.7474	51	286525.9015	5822216.4449
7	286542.9769	5822440.0349	52	286525.3028	5822216.4846
8	286544.2680	5822439.8840	53	286525.2432	5822215.5866
9	286544.1990	5822439.2880	54	286524.9439	5822215.6065
10	286545.0930	5822439.1840	55	286525.0035	5822216.5045
11	286542.7104	5822437.7504	56	286527.8659	5822246.0524
12	286544.8956	5822437.4955	57	286527.8063	5822245.1543
13	286545.1620	5822439.7800	58	286527.2077	5822245.1941
14	286495.7198	5822445.5539	59	286527.2672	5822246.0921
141	286496.0180	5822445.5190	60	286526.8182	5822246.1219
15	286496.9120	5822445.4150	61	286526.7586	5822245.2239
16	286495.9480	5822444.9230	62	286529.9140	5822262.2780
17	286496.8420	5822444.8190	63	286530.2600	5822263.1090
18	286495.4881	5822443.5673	64	286529.3600	5822262.5090
19	286496.6800	5822443.4280	65	286529.7060	5822263.3400
20	286446.7344	5822451.2604	66	286529.3370	5822263.4930
21	286447.6283	5822451.1561	67	286528.9910	5822262.6620
22	286447.5588	5822450.5602	68	286510.7952	5822270.8075
23	286446.6649	5822450.6644	69	286511.6151	5822270.4361
24	286446.5027	5822449.2739	70	286511.0420	5822271.3544
25	286447.3966	5822449.1696	71	286511.8624	5822270.9843
26	286369.1638	5822460.3080	72	286511.2911	5822271.9005
27	286370.0577	5822460.2038	73	286512.1108	5822271.5289
28	286369.9882	5822459.6078	74	286505.1162	5822284.0038
29	286369.0943	5822459.7121	75	286506.0158	5822284.0313
30	286369.8260	5822458.2172	76	286505.1345	5822283.4041
31	286368.9321	5822458.3215	77	286506.0341	5822283.4315
32	286337.8199	5822463.9639	78	286506.0432	5822283.1317
33	286338.7139	5822463.8596	79	286505.1437	5822283.1042
34	286337.7504	5822463.3679	80	286497.7440	5822284.2460
35	286338.6444	5822463.2637	81	286498.6410	5822284.1760
36	286337.4724	5822460.9841	82	286498.5950	5822283.5770
37	286338.3663	5822460.8798	83	286497.6980	5822283.6470
38	286325.8889	5822484.3770	84	286497.6740	5822283.3480
39	286325.7646	5822483.4856	85	286498.5720	5822283.2780
40	286326.4832	5822484.2941	86	286454.7219	5822289.2449
41	286326.3589	5822483.4027	87	286455.6158	5822289.1406
42	286327.0774	5822484.2113	88	286454.6524	5822288.6490
43	286326.9531	5822483.3199	89	286455.5463	5822288.5447
44	286521.1289	5822144.5135	90	286455.5115	5822288.2467
45	286521.0693	5822143.6155	91	286454.6176	5822288.3510


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ISSUED FOR CONSTRUCTION

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

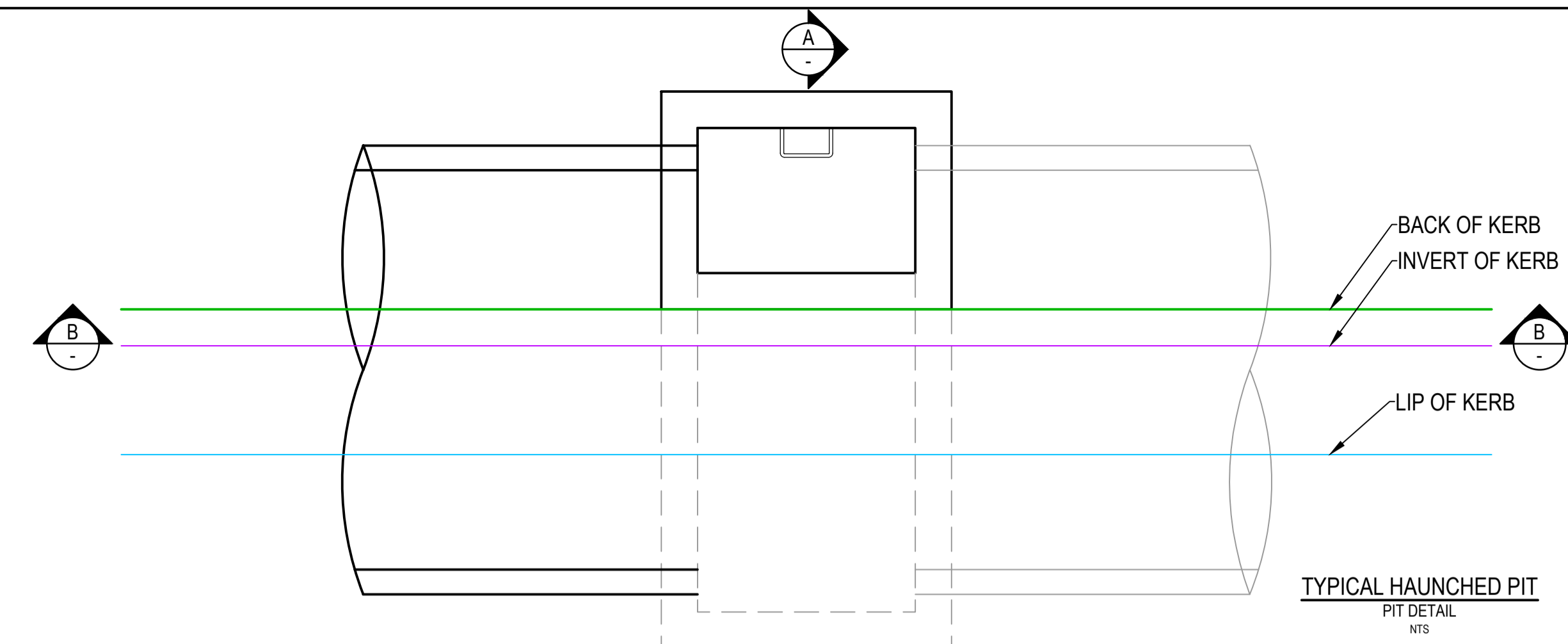



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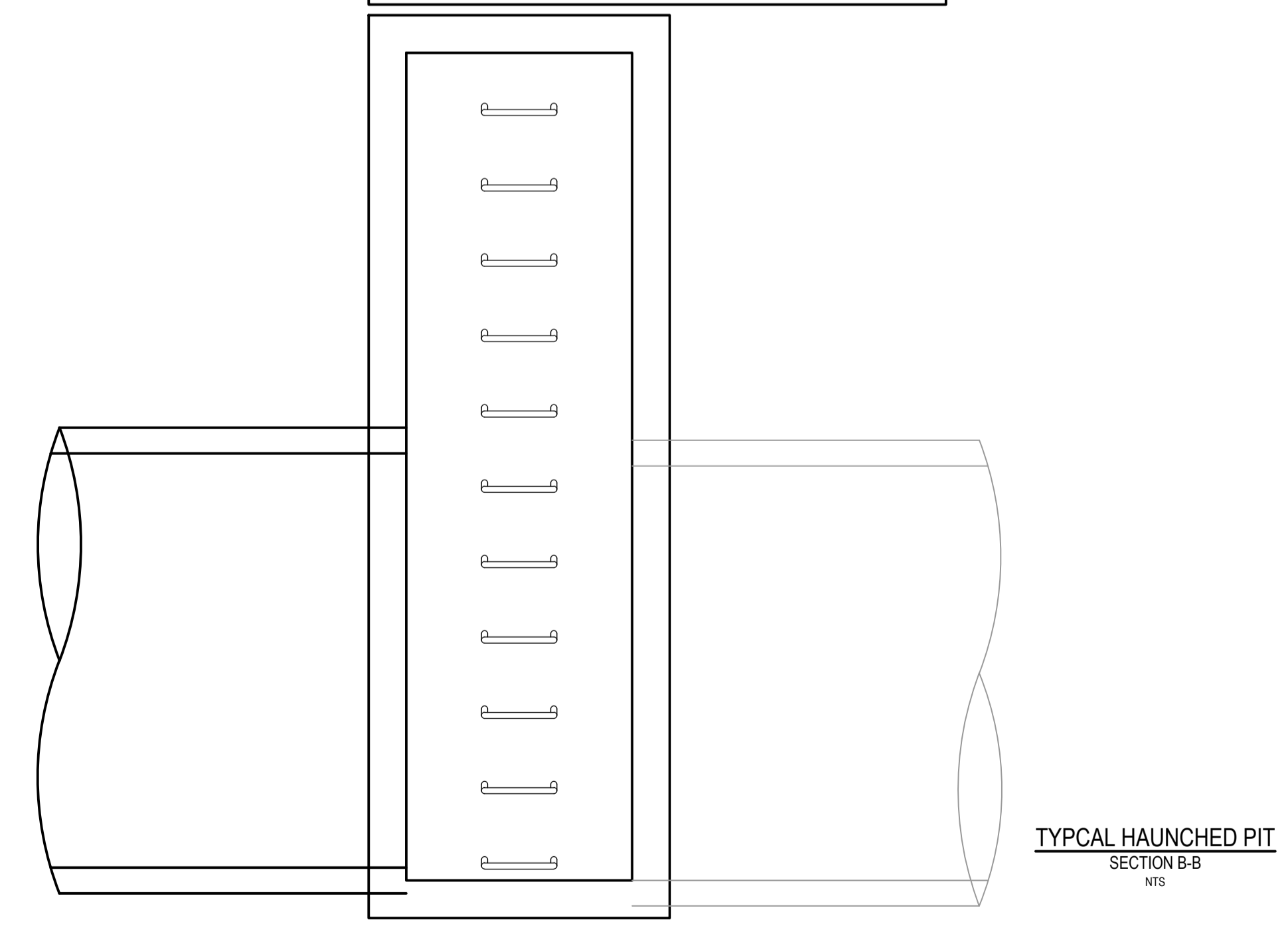
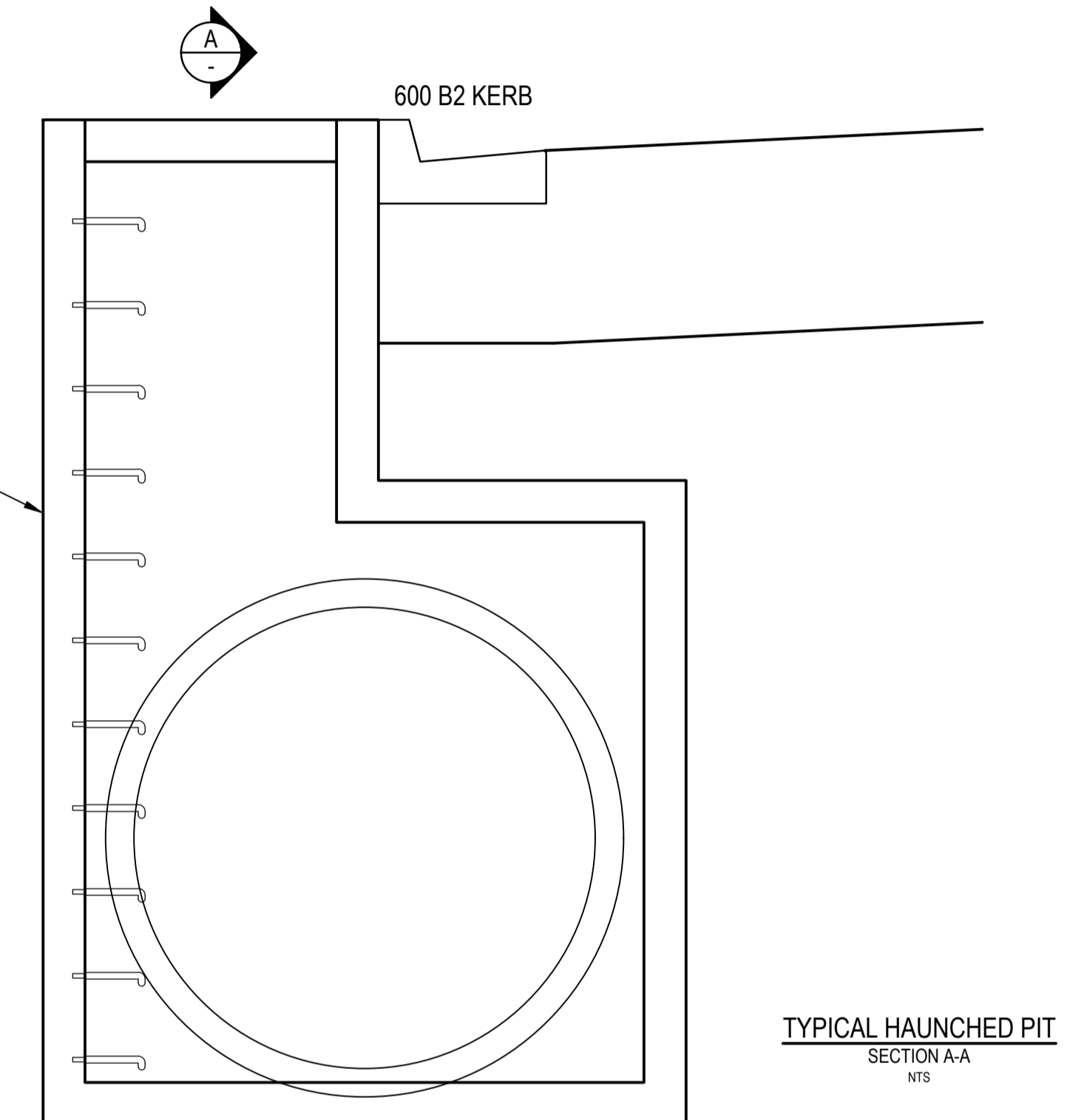
SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage Pit Setout Details		MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-20	SHEET No. 20 of 27	REVISION 0
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PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex.TP-1	ENDPIPE POINT			675	103.457	675	103.457	106.252	2.794		CONNECT TO EXISTING END PIPE
10	JUNCTION PIT	900	900	675	103.86	675	103.81	106.633	2.823	EDCM 605 & 607	HAUNCHED TO 600X900. TO BE CONVERTED TO SIDE ENTRY PIT IN FUTURE. PROVIDE 300DN STUB IN WEST WALL AT IL104.899
11	JUNCTION PIT	900	900	675	104.271	675	104.221	106.831	2.61	EDCM 605 & 607	HAUNCHED TO 600X900. TO BE CONVERTED TO SIDE ENTRY PIT IN FUTURE. PROVIDE 300DN STUB IN WEST WALL AT IL105.221
EP-1	ENDPIPE			675	104.393	675	104.393	106.987	2.594		
363	JUNCTION PIT	2000	900	1650	103.653	1650	103.653	107.54	3.887	EDCM 606 & 608	HAUNCH TO 600 x 900. TO BE CONVERTED TO SIDE ENTRY PIT IN FUTURE. PROVIDE 300DN STUB IN SOUTH WALL AT IL106.691
25	JUNCTION PIT	2300	2200	1650	104.121	1650	104.121	108.717	4.596	VICROADS SD1121 AND VICROADS SD1023	DOUBLE HAUNCHED TO 750X1000 AS PER VICROADS SD1023. PROVIDE 825DN STUB IN NORTH WALL AT IL104.698
26	JUNCTION PIT	2000	1200	1650	104.747	1650	104.535	108.819	4.284	VICROADS SD1121 AND VICROADS SD1023	DOUBLE HAUNCHED TO 750X1000 AS PER VICROADS SD1023. HEAVY DUTY PIT COVER
27	SIDE ENTRY PIT	2000	900	1650	105.142	1650	105.092	108.34	3.248	EDCM 601 & 607	HAUNCHED TO 600X900
28	DOUBLE SIDE ENTRY PIT	2000	900	1650	105.582	1650	105.532	108.541	3.009	EDCM 602 & 607	HEAVY DUTY PIT COVER. HAUNCHED TO 600X900
29	SIDE ENTRY PIT	3000	900	900	106.115	1650	105.74	108.688	2.948	EDCM 601	HAUNCHED TO 600X900
TP-2	TANGENT POINT			900	106.15	900	106.15	108.678	2.528		
TP-3	TANGENT POINT			900	106.448	900	106.448	109.103	2.655		
30	GRATED PIT	1200	900	900	106.588	900	106.541	108.687	2.146	EDCM 605	DOUBLE (600x2, 900x2) GRATED JUNCTION PIT LIDS. REFER TO DETAIL.
EP-2	ENDPIPE					900	106.839	109.408	2.569		
34	JUNCTION PIT	600	900			225	107.507	108.973	1.466	EDCM 605	
35	JUNCTION PIT	1050	900	675	104.469	675	104.419	107.004	2.585	EDCM 605	HAUNCHED TO 600X900. TO BE CONVERTED TO SIDE ENTRY PIT IN FUTURE. PROVIDE 300DN STUB IN WEST WALL AT IL104.794
36	JUNCTION PIT	1000	900	450	104.748	675	104.539	107.15	2.611	VICROADS SD1021 & SD1282	HAUNCHED TO 750X1000 AS PER VICROADS SD1021. TO BE CONVERTED TO SIDE ENTRY PIT IN FUTURE. PROVIDE 450DN STUB IN NORTH WALL AT IL104.748. HEAVY DUTY PIT LID IN ROAD
58	JUNCTION PIT	600	900	225	106.792	300	106.742	108.798	2.056	EDCM 605	
59	JUNCTION PIT	600	900	225	107.258	300	107.258	108.428	1.17	EDCM 605	
60	SIDE ENTRY PIT	600	900			300	106.789	108.342	1.553	EDCM 601 & 605	
61	DOUBLE SIDE ENTRY PIT	600	900			450	106.862	108.541	1.678	EDCM 602 & 605	
62	DOUBLE SIDE ENTRY PIT	600	900	300	106.55		106.5	108.146	1.646	EDCM 602 & 605	
178	DOUBLE SIDE ENTRY PIT	600	900			300	106.83	108.303	1.473	EDCM 602 & 605	
243	SIDE ENTRY PIT	900	900	450	105.509	600	105.434	107.533	2.099	EDCM 601 & 607	HAUNCHED TO 600X900
63	DOUBLE SIDE ENTRY PIT	600	900	375	105.618	450	105.568	107.491	1.923	EDCM 602 & 605	
64	SIDE ENTRY PIT	600	900	300	106.025	375	105.975	107.84	1.866	EDCM 601 & 605	
65	SIDE ENTRY PIT	600	900	300	106.451	300	106.401	108.154	1.753	EDCM 601 & 605	
66	GRATED PIT	600	900			300	106.596	108.167	1.571	EDCM 605	HEAVY DUTY V-NOTCH GRATED PIT
67	DOUBLE SIDE ENTRY PIT	600	900	375	105.737	375	105.687	107.488	1.801	EDCM 602 & 605	
68	SIDE ENTRY PIT	600	900	300	106.182	375	106.132	107.81	1.678	EDCM 601 & 605	
69	SIDE ENTRY PIT	600	900	225	106.532	300	106.482	108.06	1.578	EDCM 601 & 605	
70	JUNCTION PIT	600	900			225	107.831	108.787	0.956	EDCM 605	
Ex.EP269	ENDPIPE			375	106.46	375	106.46	108.082	1.622		CONNECT TO EXISTING END PIPE
71	DOUBLE SIDE ENTRY PIT	600	900	300	106.705	375	106.655	108.14	1.485	EDCM 602 & 605	
72	DOUBLE SIDE ENTRY PIT	600	900	225	107.084	300	107.034	108.298	1.264	EDCM 602 & 605	
73	JUNCTION PIT	600	900			225	107.933	109.039	1.106	EDCM 605	
Ex.EP272	ENDPIPE			300	107.123	300	107.123	108.437	1.314		CONNECT TO EXISTING END PIPE
74	JUNCTION PIT	600	900			300	107.533	108.822	1.289	EDCM 605	
75	ENDPIPE					1200	106.366	109.087	2.721		
43	DOUBLE SIDE ENTRY PIT	1200	900	600	104.727	600	104.677	107.231	2.554	EDCM 602 & 607	HAUNCHED TO 600X900
122	SIDE ENTRY PIT	900	900	600	104.985	600	104.935	107.277	2.342	EDCM 601 & 607	HAUNCHED TO 600X900
123	DOUBLE SIDE ENTRY PIT	900	900	600	105.109	600	105.059	107.317	2.258	EDCM 602 & 607	HEAVY DUTY PIT COVER. HAUNCHED TO 600X900
Ex.EP246	ENDPIPE			300	106.3	300	106.3	108.082	1.782		CONNECT TO EXISTING END PIPE
124	SIDE ENTRY PIT	600	900			300	106.113	107.669	1.556	EDCM 601	



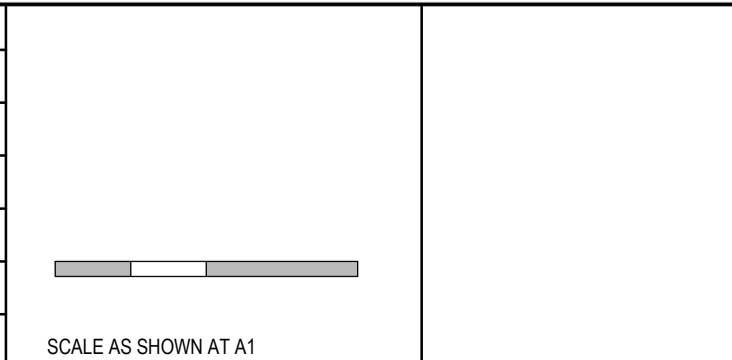
FOR SINGLE HAUNCHED PITS REFER TO STANDARD DRAWINGS EDCM 607 / 608
FOR DOUBLE HAUNCHED PITS REFER TO STANDARD DRAWING VICROADS SD 1023
FOR FURTHER INFORMATION REFER LEFT TO PIT SCHEDULE



MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

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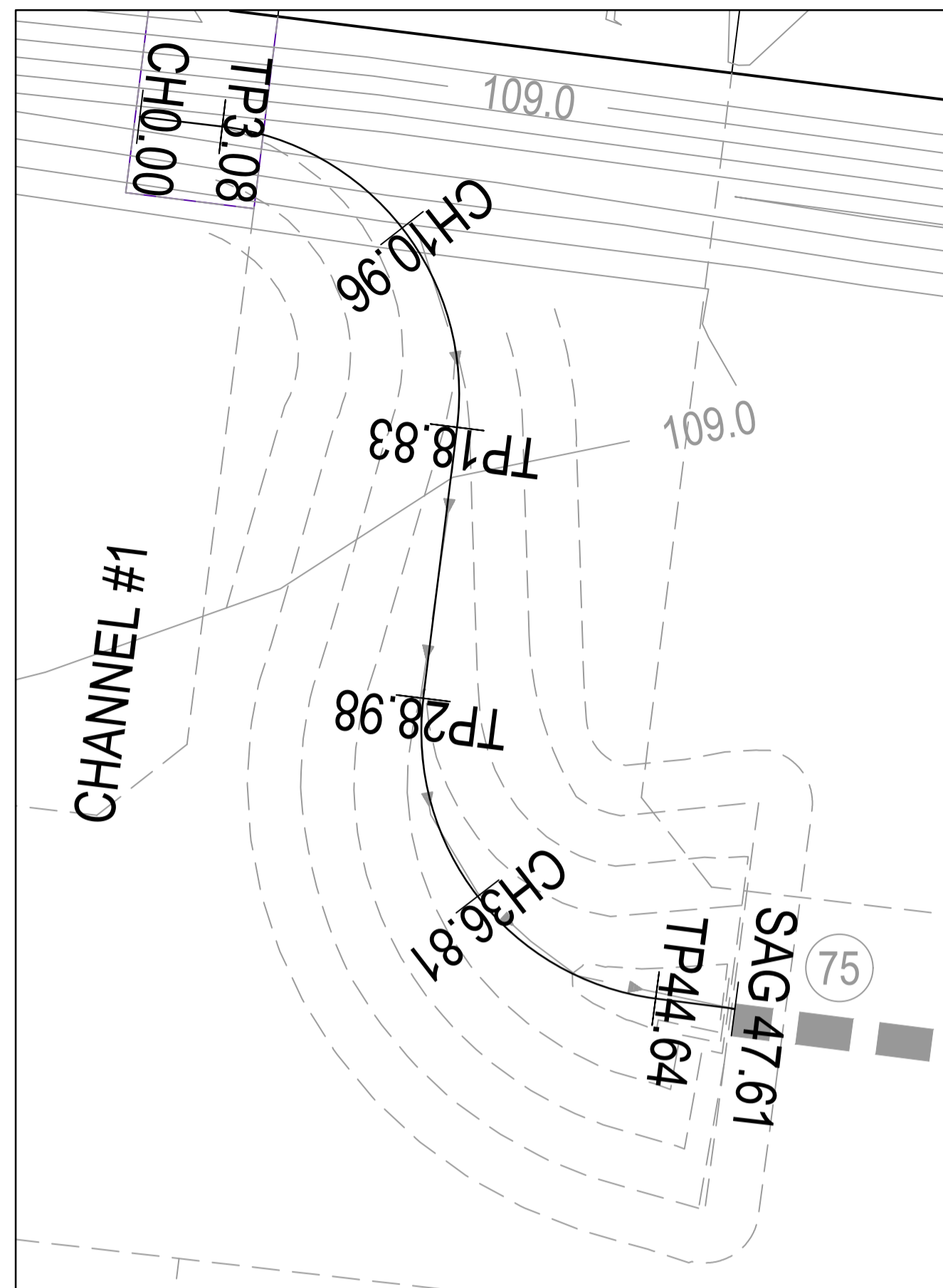
TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



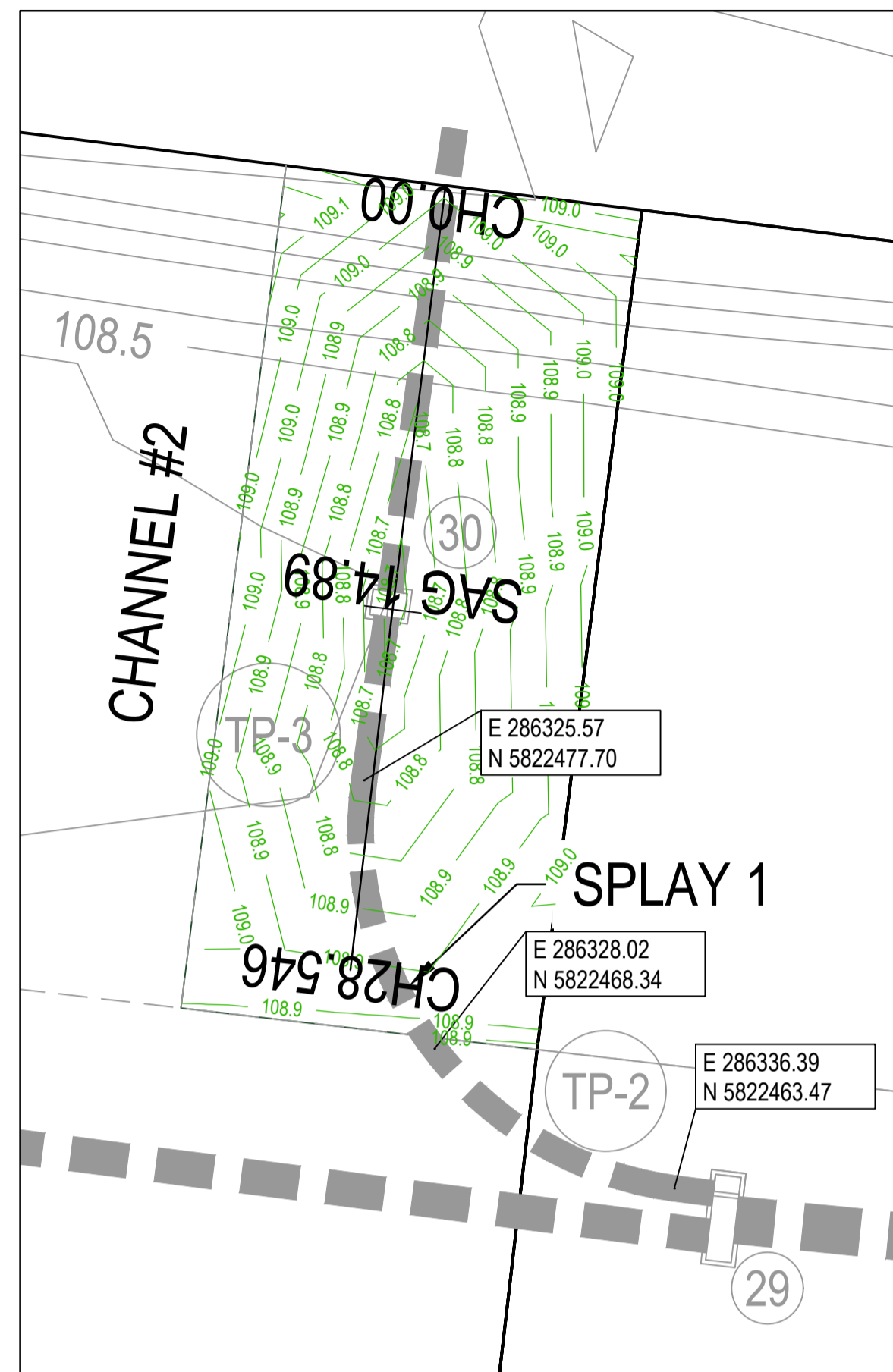
SMEC
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ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
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SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage Pit Schedule		MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-21	SHEET No. 21 of 27	REVISION 0
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CHANNEL 1



CHANNEL 2



CHANNEL 3

CHANNEL #1 DESIGN LINE

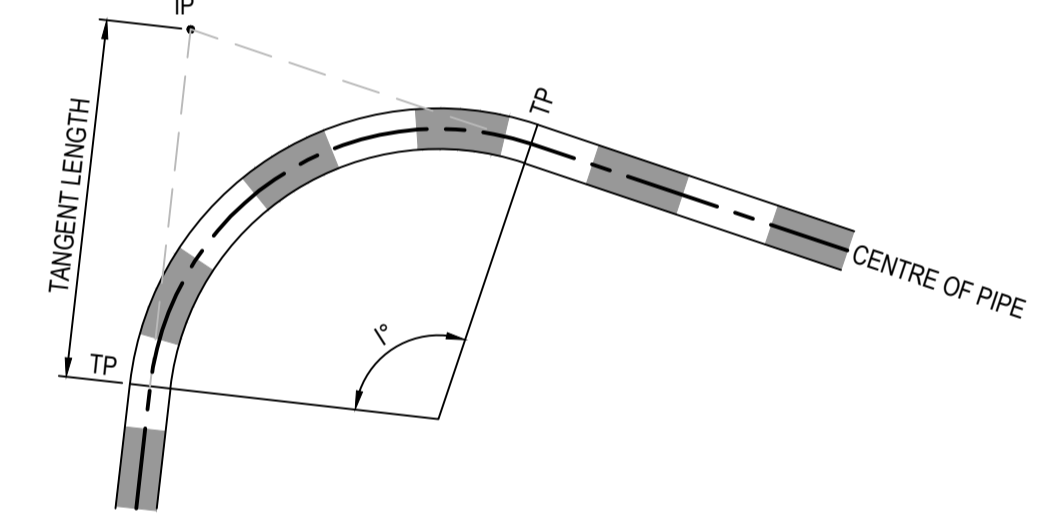
IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	286237.349	5822505.446	108.121	IP	96°51'59.41"		
	3.082	286240.409	5822505.077	107.981	TC	96°51'59.41"		
2	10.958	286250.381	5822503.877	107.623	IP		15.752	10.000
	18.834	286249.137	5822493.910	107.264	CT	187°07'00.00"		
	28.983	286247.879	5822483.839	106.803	TC	187°06'60.00"		
3	36.812	286246.647	5822473.966	106.447	IP		15.657	-10.000
	44.641	286256.513	5822472.684	106.204	CT	97°24'21.92"		
4	47.610	286259.458	5822472.301	106.189	IP			
5	47.611	286259.458	5822472.300	106.189	IP			
6	47.721	286259.349	5822472.315	106.189	IP	277°39'03.65"		

CHANNEL #2 DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	286328.408	5822498.434	109.010	IP	187°07'00.00"		
2	28.546	286324.871	5822470.108	108.987	IP	187°07'00.00"		

CHANNEL #3 DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	286613.509	5822431.053	107.540	IP	276°39'10.09"		
2	0.001	286613.508	5822431.053	107.540	IP			
	7.221	286620.565	5822432.578	107.516	TC	77°48'35.22"		
3	8.632	286621.982	5822432.884	107.511	IP		2.822	-5.000
	10.042	286623.015	5822433.900	107.506	CT	45°28'36.82"		
	35.679	286641.294	5822451.877	107.421	TC	45°28'36.82"		
4	37.931	286643.017	5822453.572	107.414	IP		4.504	5.000
	40.183	286645.416	5822453.274	107.406	CT	97°04'59.44"		
	207.919	2866811.872	5822432.590	106.847	TC	97°04'59.44"		
5	208.431	2866812.380	5822432.527	106.845	IP		1.024	200.000
	208.942	2866812.887	5822432.461	106.843	CT	97°22'35.11"		
6	266.293	2866869.763	5822425.098		IP	97°22'35.11"		



SPLAY PIPE SETOUT DETAIL
NOT TO SCALE

SPLAY PIPE INFORMATION

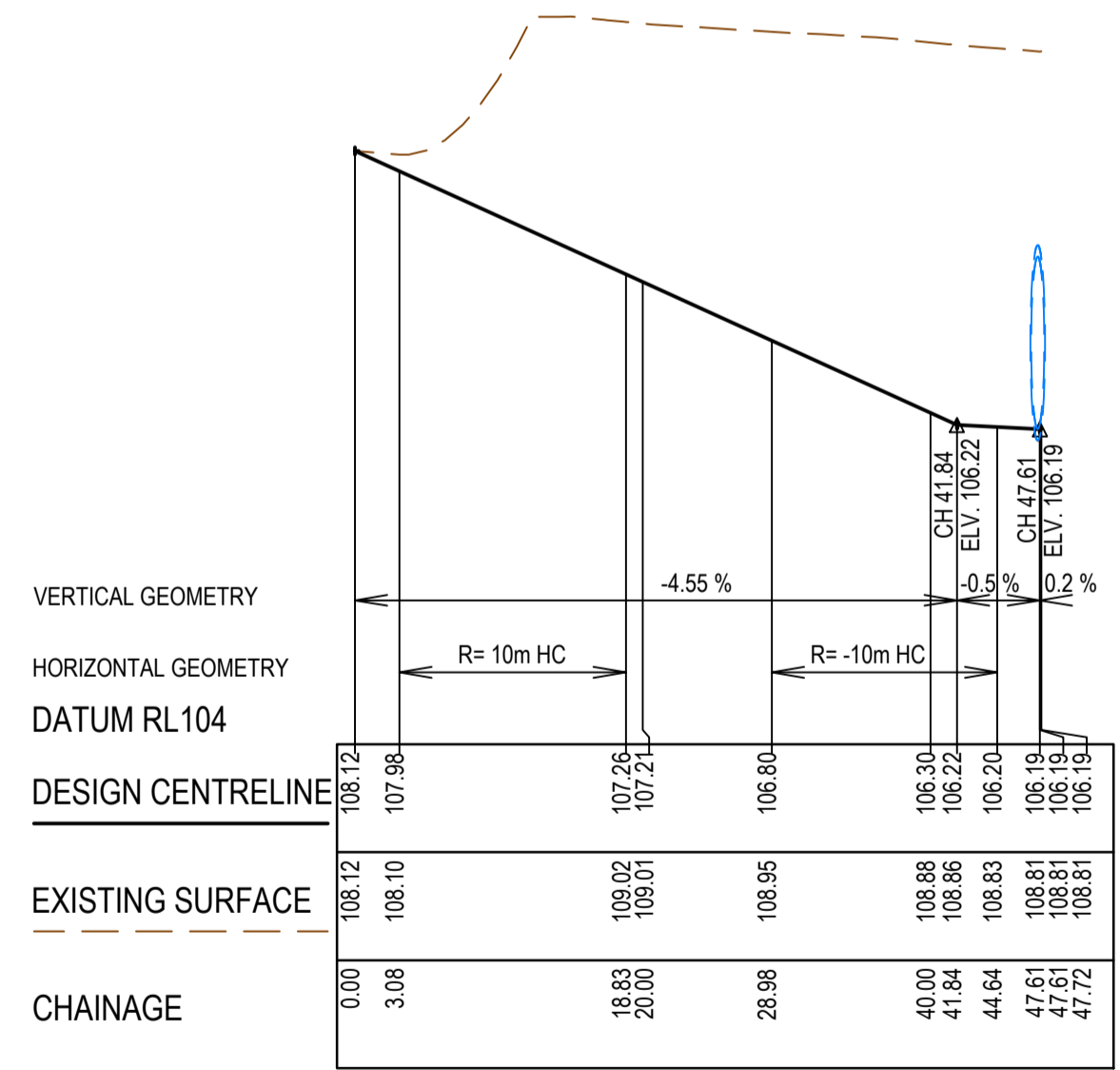
SPLAY #	CENTRE RADIUS (m)	ARC LENGTH (m)	TANGENT LENGTH (m)	I°	PIPE SIZE (m)	IP	
						EASTING	NORTHING
1	12.60	19.86	14.06	97	0.900	286323.778	5822464.897

LEGEND

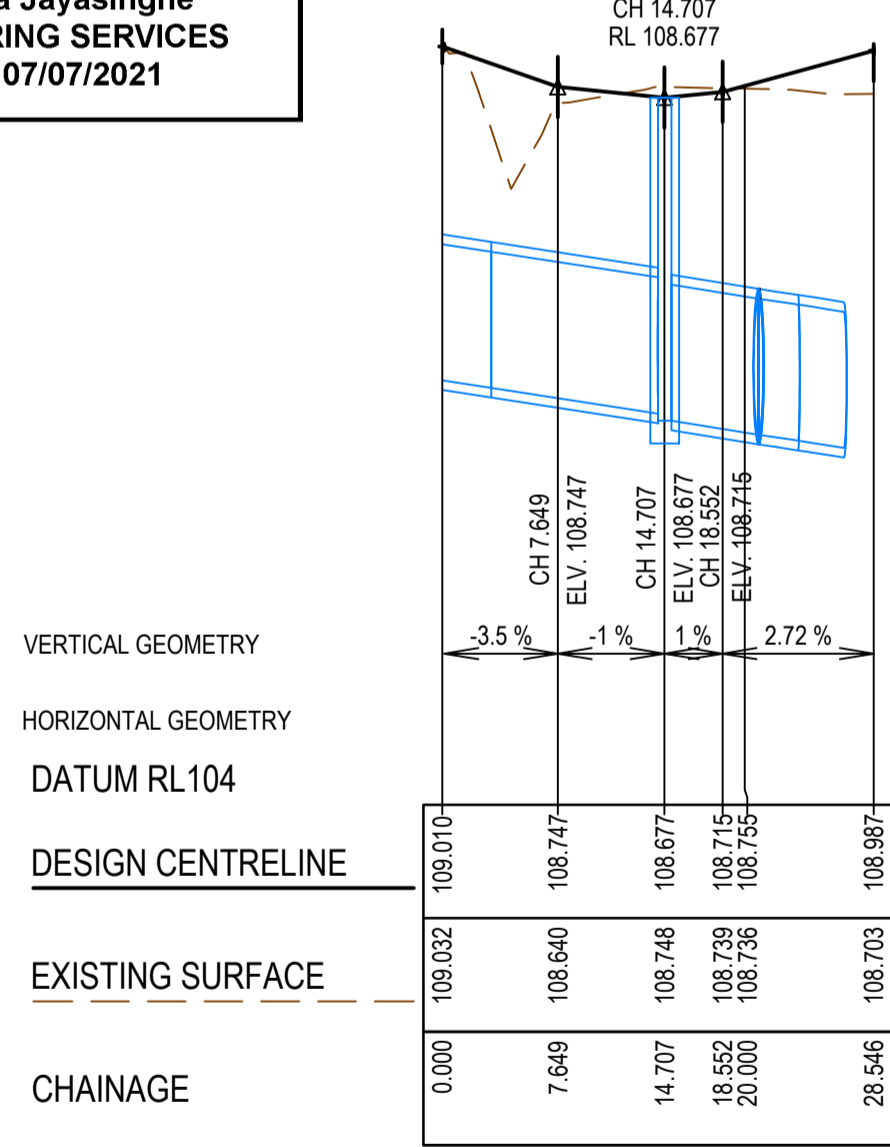
- EXISTING SURFACE
- DESIGN SURFACE
- DRAINAGE PIPE/PIT
- EXISTING DRAINAGE PIPE/PIT
- HYDRAULIC GRADE LINE
- CRUSHED ROCK BACKFILL

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

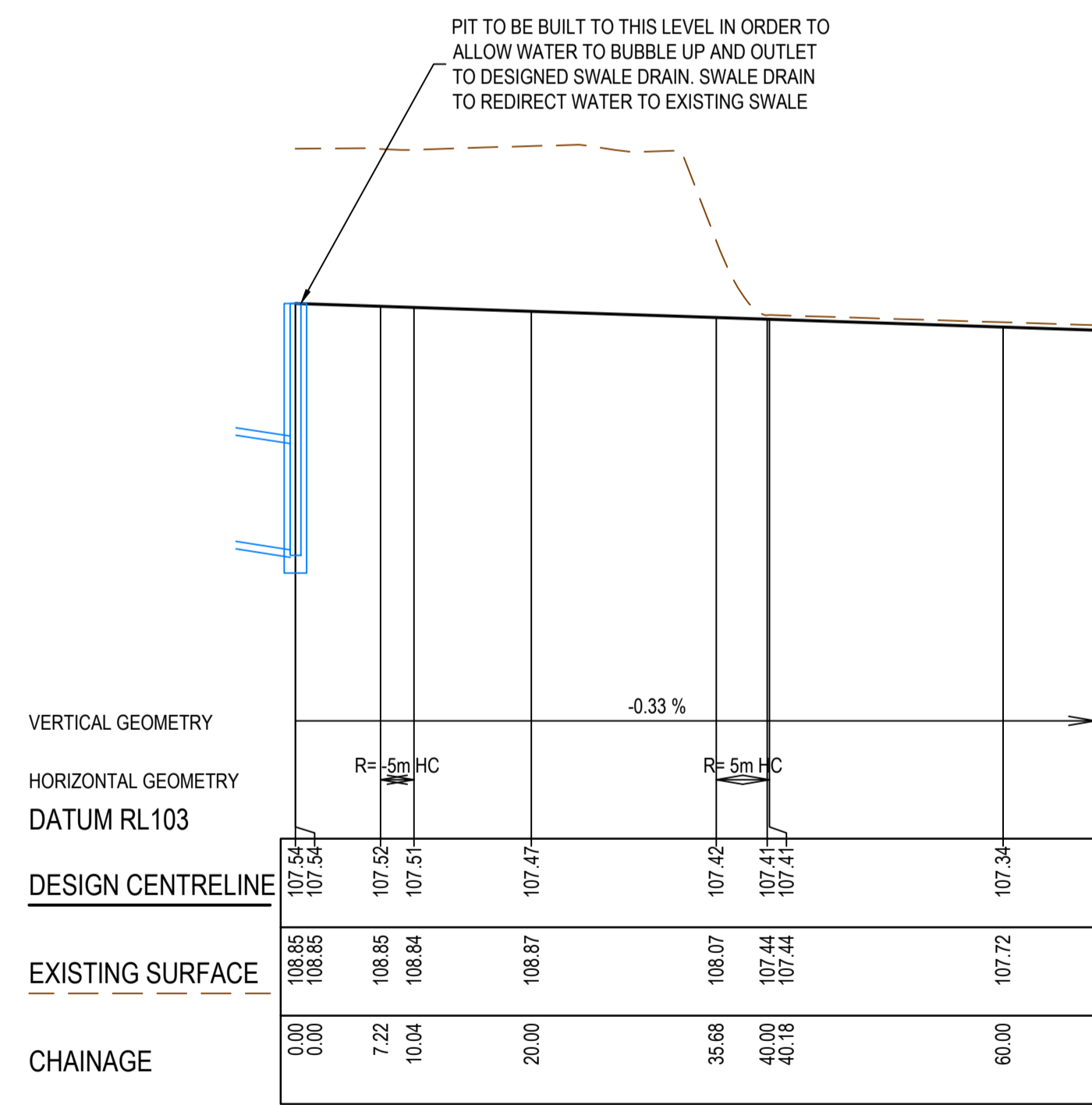
- NOTES**
- PIPE TRENCHES WITHIN THE ROAD RESERVE MUST BE BACKFILLED WITH 20mm CLASS 3 CRUSHED ROCK TO BE COMPACTED TO A DRY DENSITY NOT LESS THAN 97% OF MAXIMUM FOUND IN THE STANDARD COMPACTION TEST FOR THE FOLLOWING:
 - BENEATH THE ROAD PAVEMENT OR DRIVEWAY CROSSOVER TO THE UNDERSIDE OF THE PAVEMENT OR CROSSOVER
 - ADJACENT TO KERBING OR CONCRETE WORKS TO A LEVEL THAT IS NOT AFFECTED BY A 45 DEGREE ANGLE OF REPOSE FROM NEAR THE LOWER EDGE
 - ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
 - ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
 - WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



CHANNEL 1 LONGITUDINAL SECTION



CHANNEL 2 - LONGITUDINAL SECTION



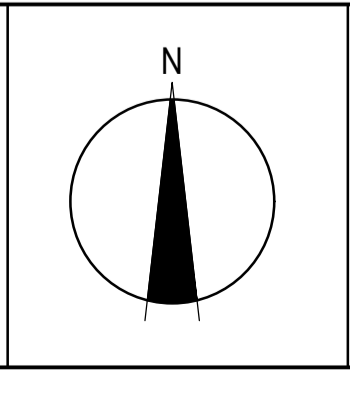
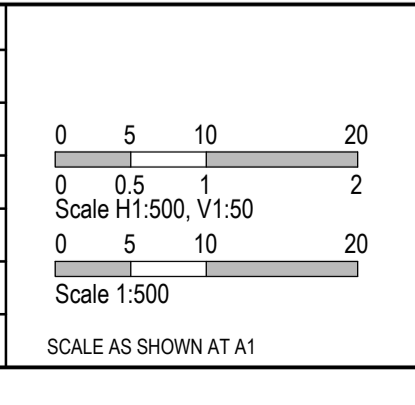
CHANNEL 3 - LONGITUDINAL SECTION

MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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ISSUED FOR CONSTRUCTION

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REFERENCE No. 1	
REFERENCE No. 2	



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SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Channel Detail

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-22	SHEET No. 22 of 27	REVISION 0
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EXISTING DEVELOPMENT BY OTHERS

RES.



FUTURE STAGE 10

EXISTING STAGE 13

ACTIVE OPEN SPACE



MELTON
APPROVED
DETAILED ENGINEERING PLANS
 Mangala Jayasinghe
 ENGINEERING SERVICES
 Date: 07/07/2021

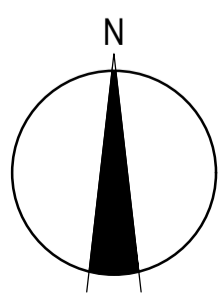
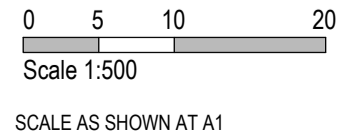
- NOTES**
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.



TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

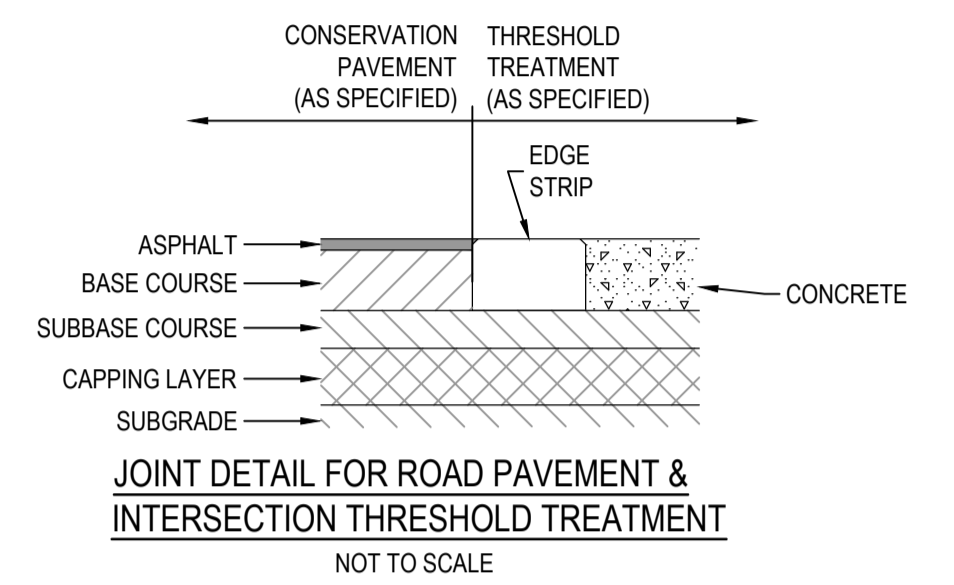
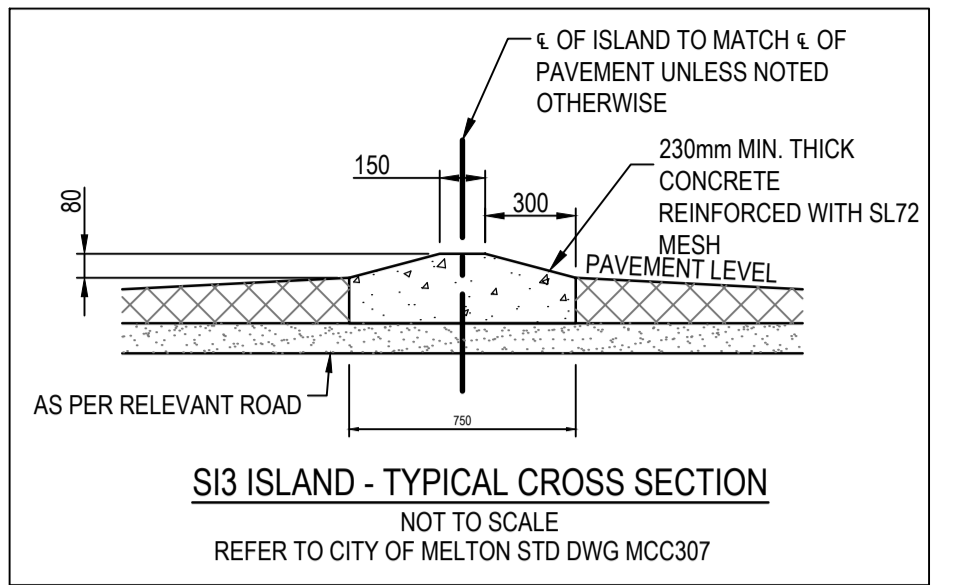
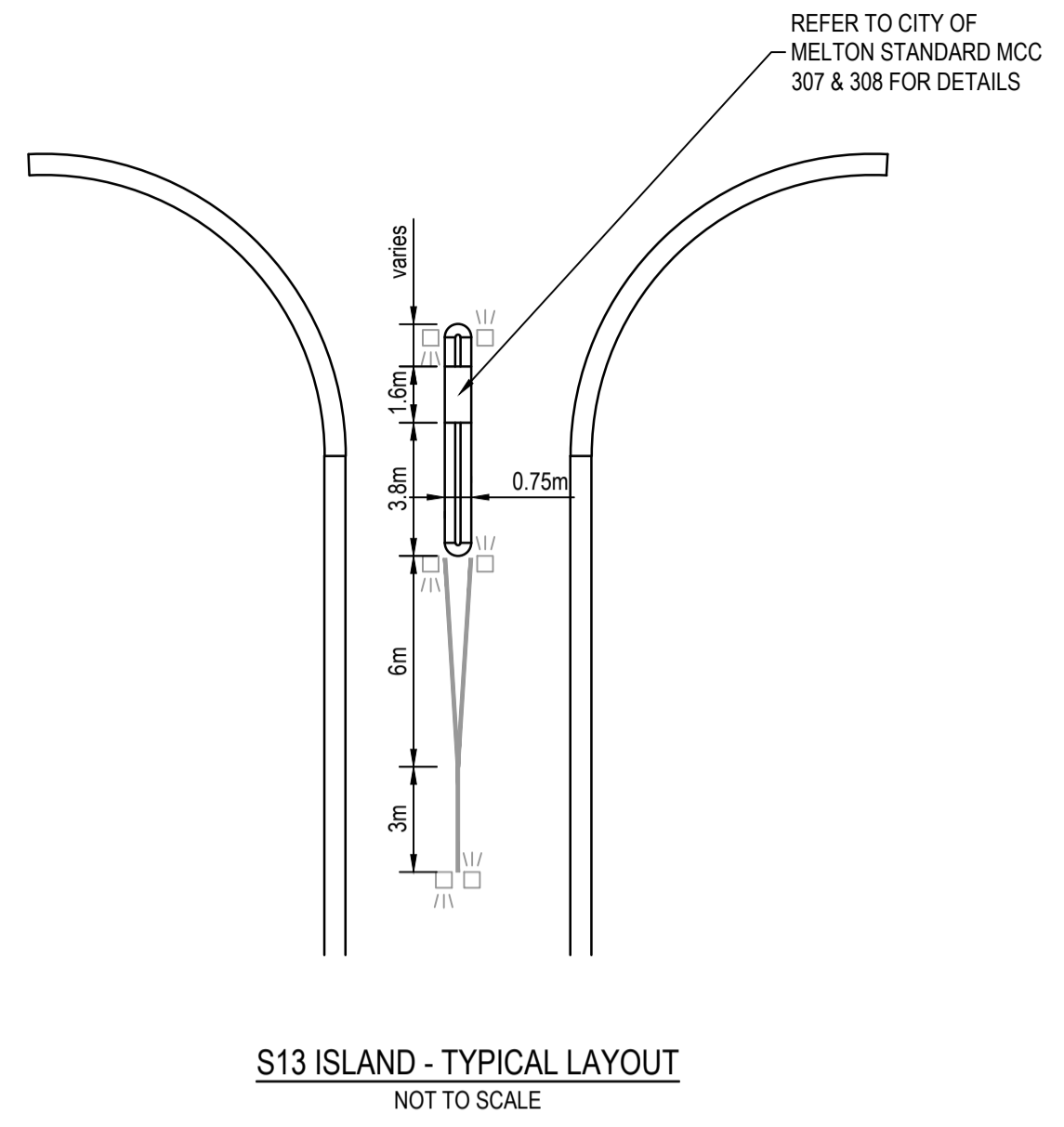
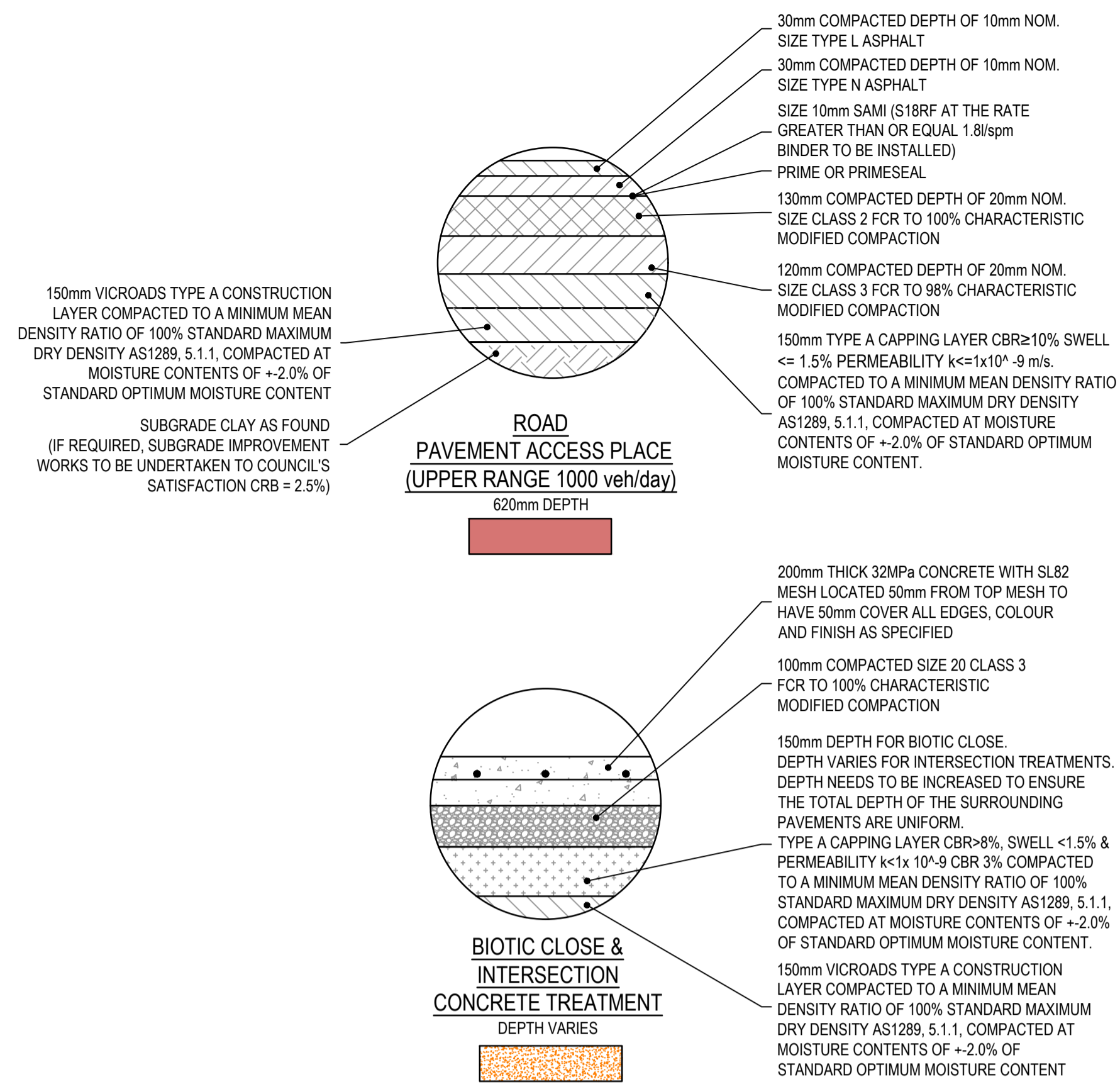
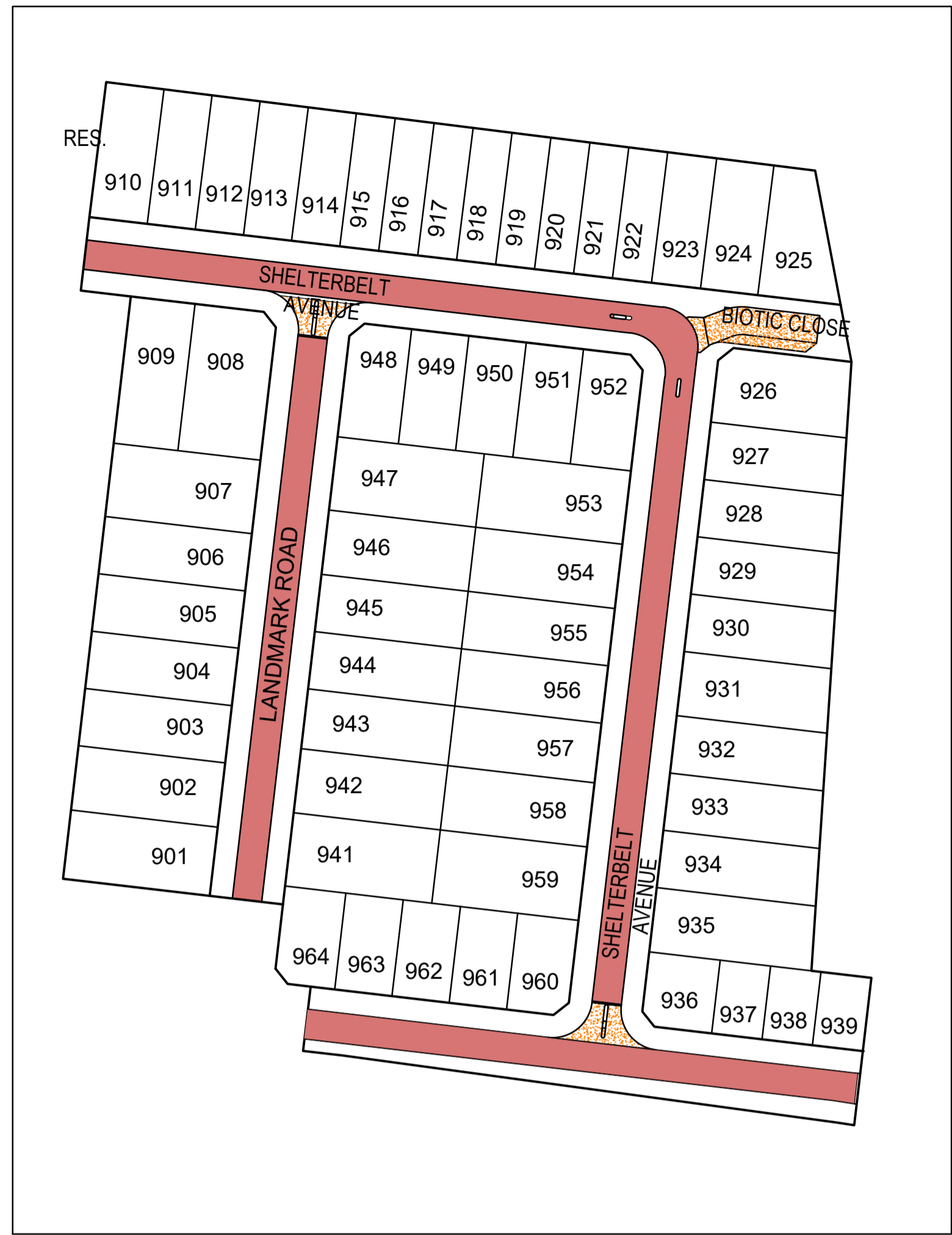


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 Melbourne, VIC 3004
 Ph 03 9514 1500

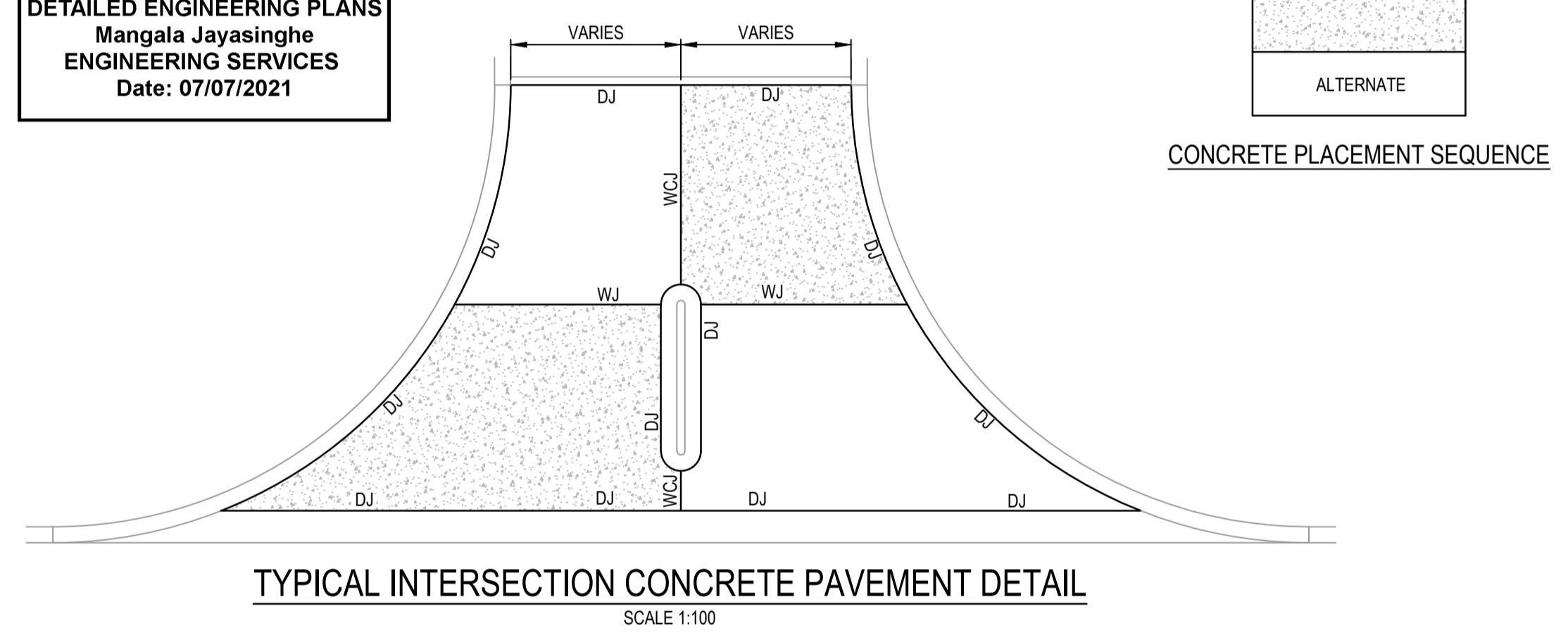
SEVENTH BEND

Seventh Bend - Stage 09
 Melton City Council
 Road and Drainage
 Signage & Linemarking Plan

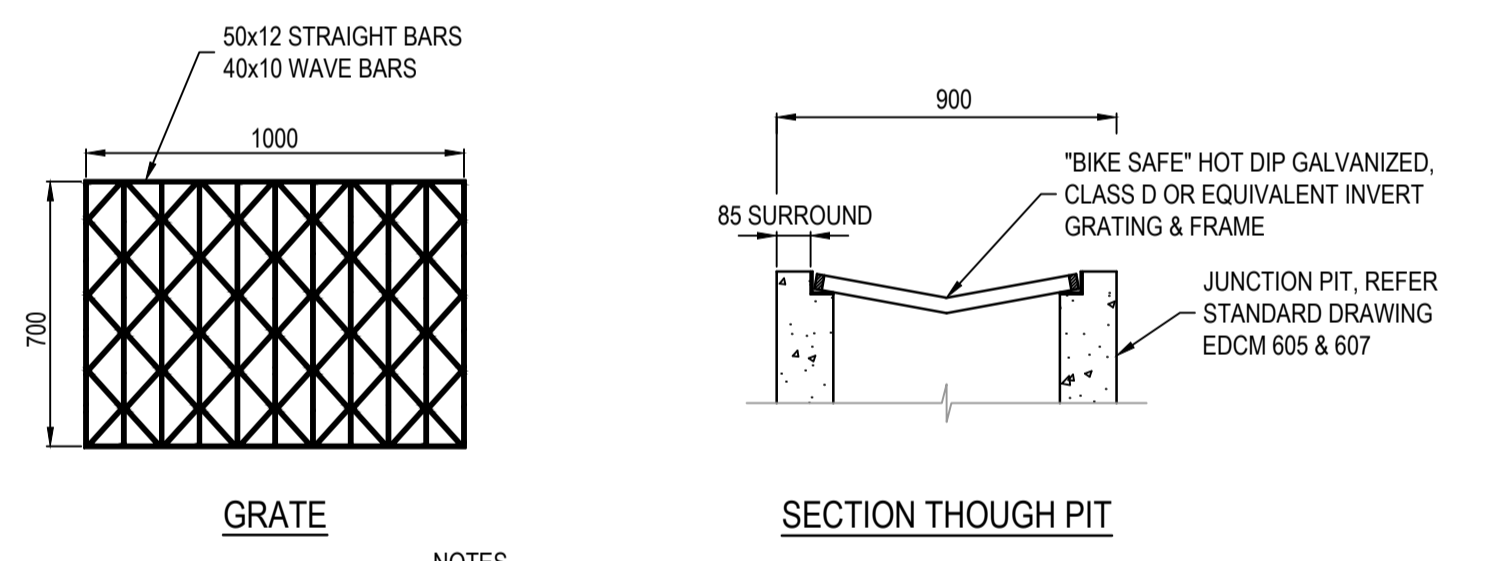
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-23	SHEET No. 23 of 27	REVISION 0
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MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021



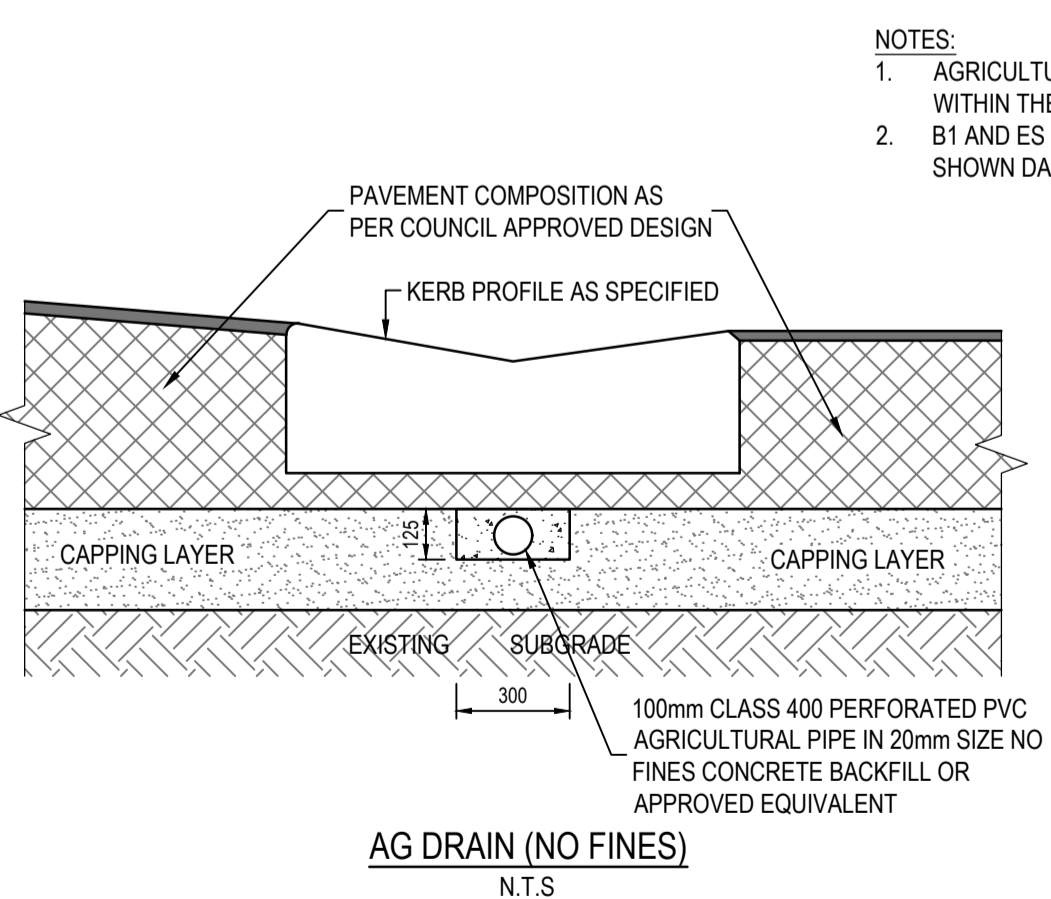
NOTE
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY GEOTESTA PTY LTD. SMEC IS NOT RESPONSIBLE FOR GEOTECHNICAL OR PAVEMENT RELATED DESIGNS AND IS NOT RESPONSIBLE FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THESE DESIGNS. THE PAVEMENT COMPOSITIONS SHOWN ON THIS DRAWING HAVE BEEN REPRODUCED FROM THE PAVEMENT REPORT FOR THIS DEVELOPMENT STAGE. THIS DOCUMENT SHOULD BE REVIEWED BY THE CONTRACTOR TO ENSURE DESIGN HAS BEEN INTERPRETED CORRECTLY. A COPY OF THIS DOCUMENT WILL BE MADE AVAILABLE ON REQUEST. ANY DIFFERENCES FROM THIS REQUIREMENTS SHOWN ARE TO BE NOTIFIED TO THE SUPERINTENDENT BEFORE PROCEEDING.



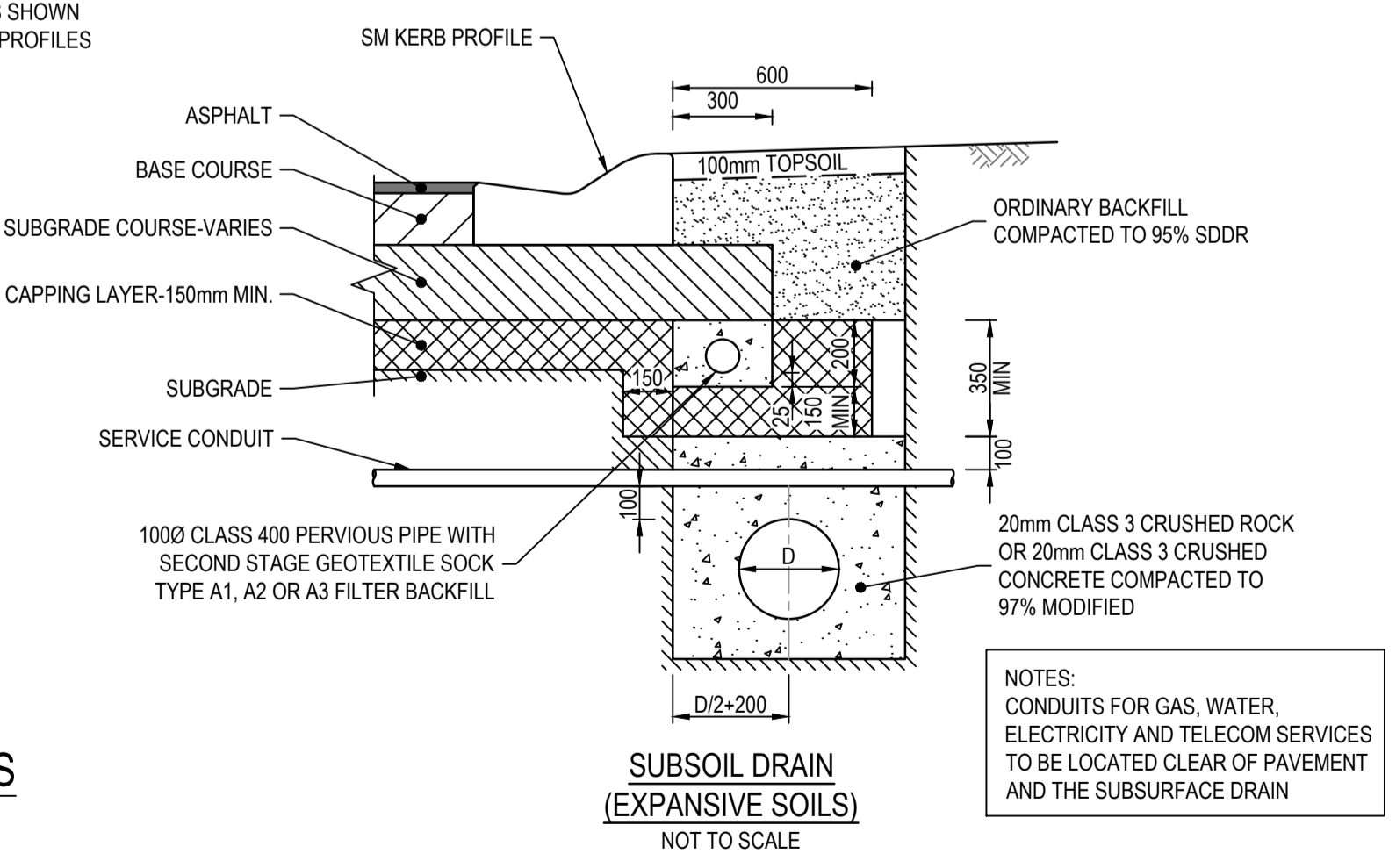
NOTES
1. REFER TO EDMC STANDARD DRAWINGS 605, 606 & 607 FOR PIT DETAILS.
2. GRATE FRAME TO BE "BIKE SAFE" TO AS3996-1992

GRADED JUNCTION PIT DETAIL
NOT TO SCALE

- CONCRETE NOTES:**
- GENERAL
 - ENGINEERING DRAWINGS MUST NOT BE SCALED
 - CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
 - ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY TO ENSURE CORRECT RECTIFICATION BEFORE PROCEEDING WITH THE WORK.
 - ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPROPRIATE SAA CODES, VICTORIAN BUILDING REGULATIONS, AND BUILDING CODE OF AUSTRALIA
 - ALL REFERENCES TO SAA CODES, VBR'S AND BCA SHALL INCLUDE ALL AMENDMENTS
 - SUBSTITUTION SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER
 - CONCRETE
 - ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600. CONCRETE COMPRESSION STRENGTH SHALL BE: 32MPa AT 28 DAYS FOR PAVEMENT OR AS NOTED ON DRAWINGS
 - WHEELBARROW RUNS IF USED MUST BE SUPPORTED DIRECTLY FROM THE FORMWORK AND NOT FROM THE REINFORCEMENT
 - MECHANICALLY VIBRATE CONCRETE DURING THE CONCRETE POUR
 - CONCRETE SURFACES MUST BE ADEQUATELY CURED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.
 - CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES
 - UNSPECIFIED CONSTRUCTION JOINTS MUST NOT BE MADE WITHOUT THE ENGINEERS PRIOR WRITTEN APPROVAL
 - REINFORCEMENT
 - REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. CLEAR COVER NOTED ON DRAWING(S) IS IN ACCORDANCE WITH AS3600 AND SHOULD NOT BE VARIED
 - LAPS IN REINFORCEMENT SHOULD COMPLY WITH AS3600
 - FIELD WELDING OF REINFORCEMENT IS ONLY PERMITTED WITH THE ENGINEER'S WRITTEN APPROVAL.
 - ALL REINFORCEMENT IS TO BE ACCURATELY PLACED, TIED AND SUPPORTED IN POSITION BY BAR CHAIRS AT 750MM CENTRES WHERE APPROPRIATE AND ADEQUATELY IN OTHER MEMBERS
 - FORMWORK
 - ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS1509
 - RETAIN ALL FORMWORK IN POSITION FOR AT LEAST SEVEN DAYS



AG DRAIN DETAILS
NOT TO SCALE

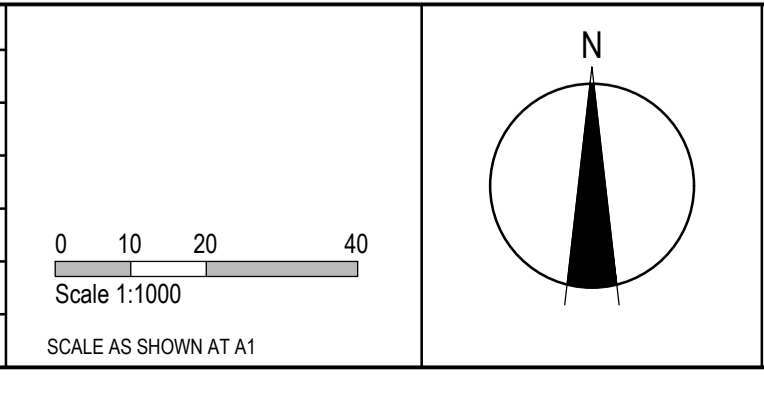


NOTES:
CONDUITS FOR GAS, WATER, ELECTRICITY AND TELECOM SERVICES TO BE LOCATED CLEAR OF PAVEMENT AND THE SUBSURFACE DRAIN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

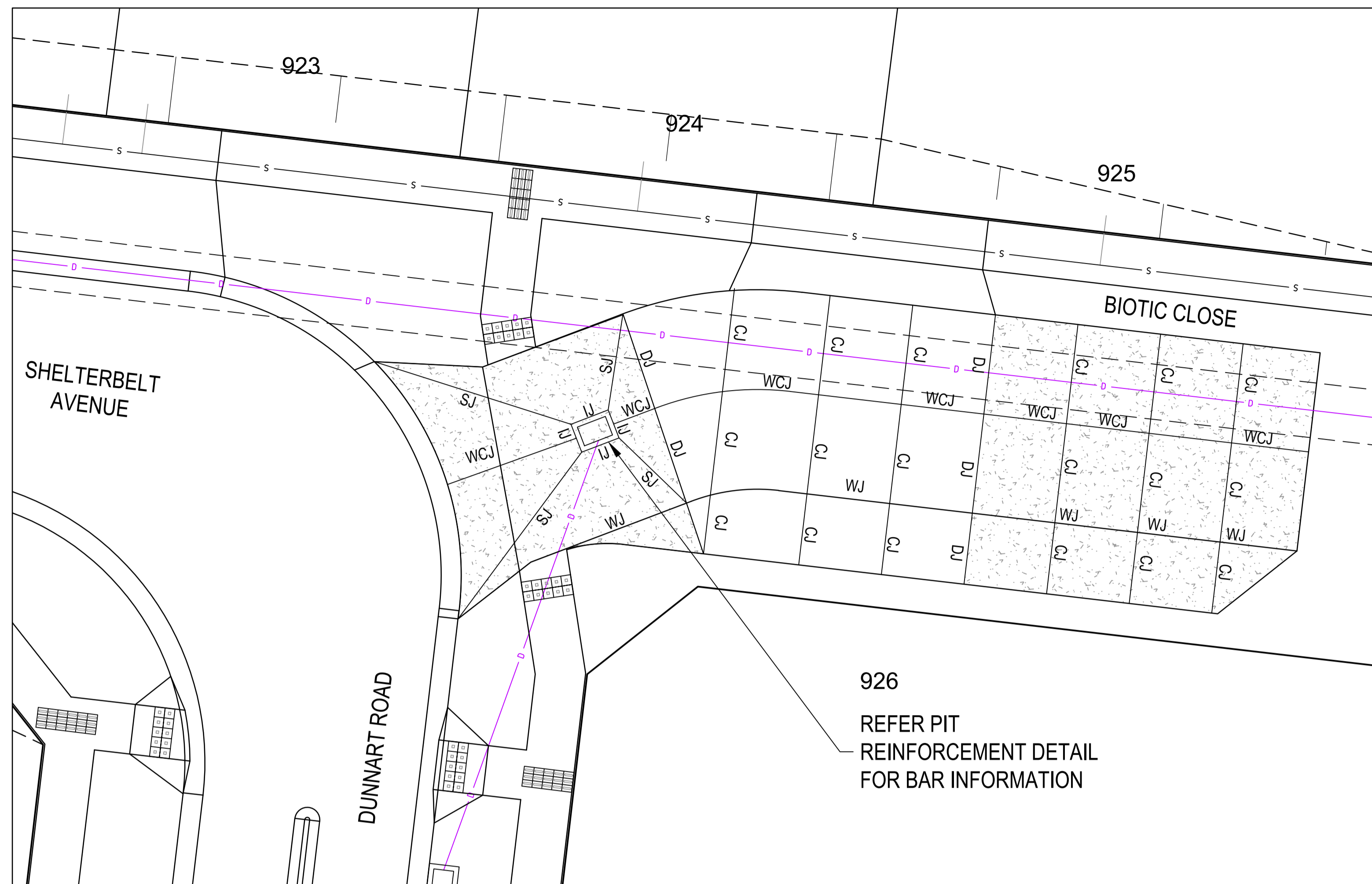
TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



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SEVENTH BEND

Seventh Bend - Stage 09 Melton City Council Road and Drainage General Notes and Details	
MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-24
SHEET No. 24 of 27	REVISION 0

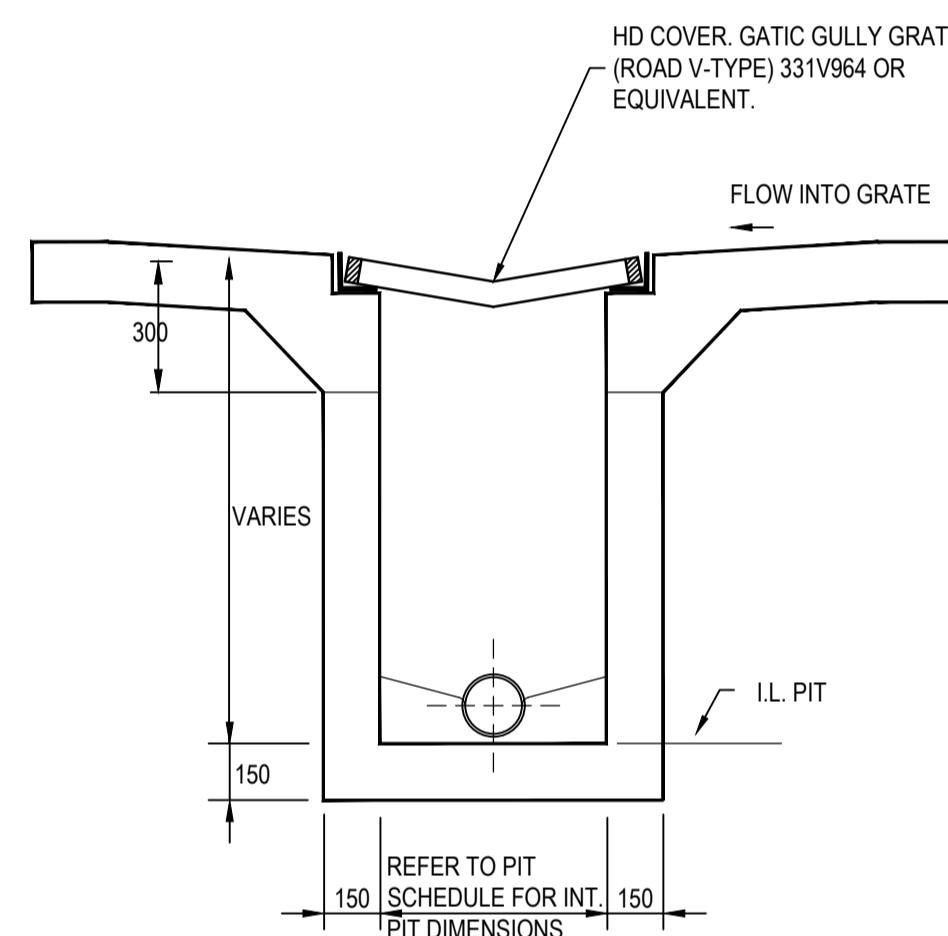
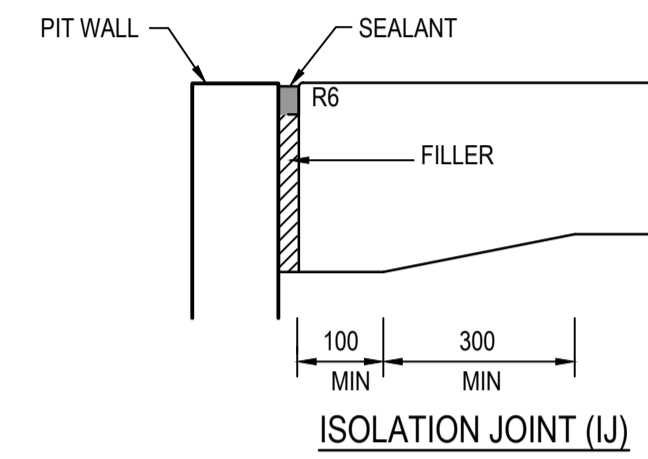


EXTENDED DRIVEWAY JOINTING DETAILS

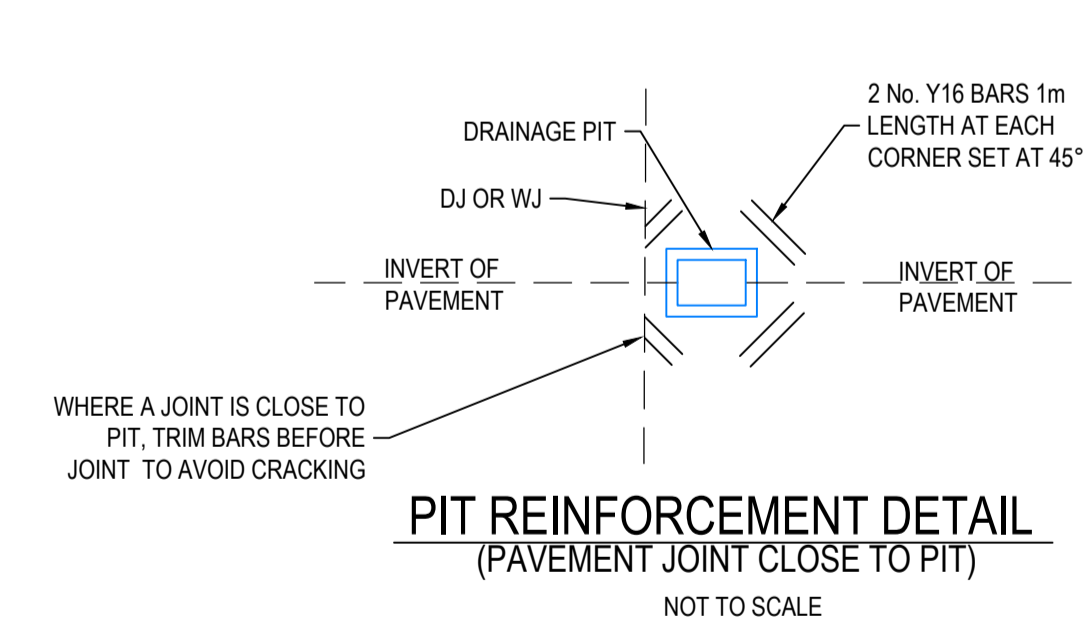
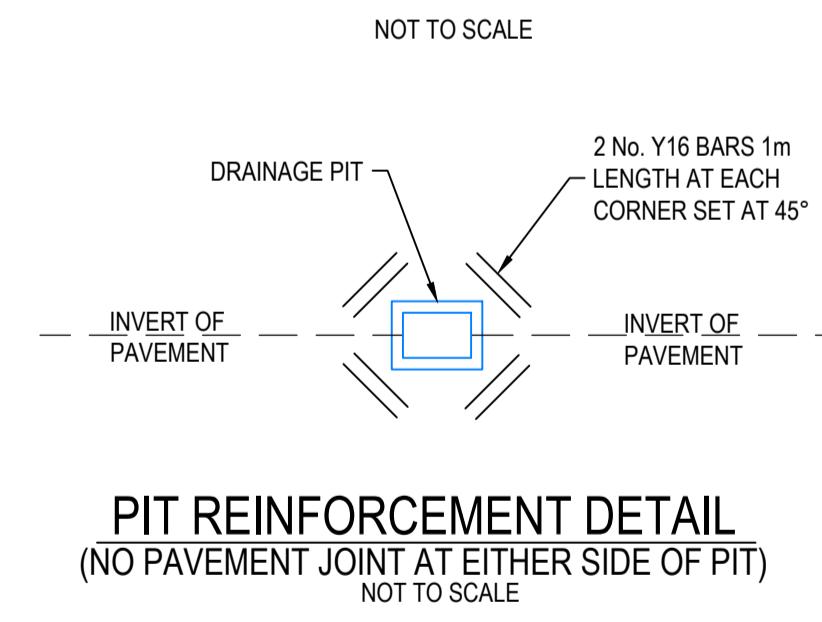
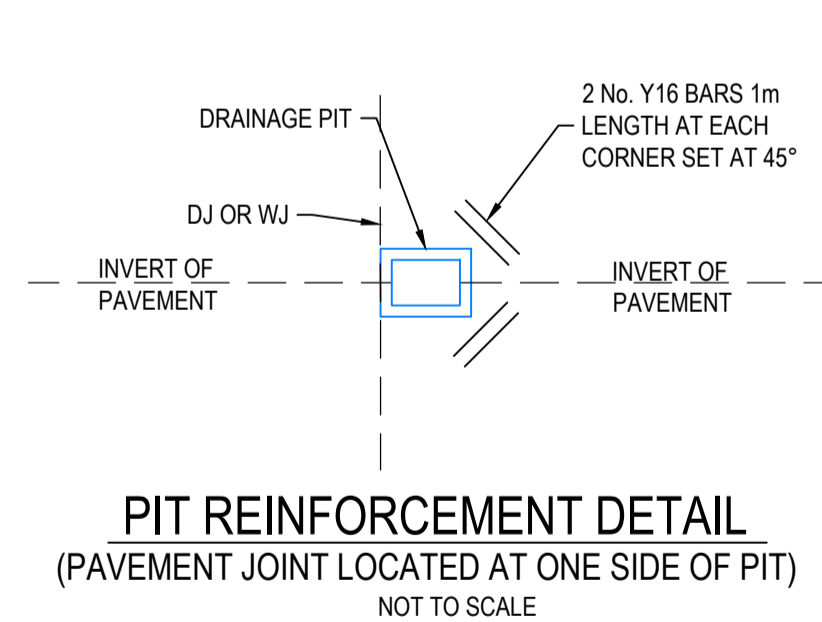
926
REFER PIT
REINFORCEMENT DETAIL
FOR BAR INFORMATION

CONCRETE NOTES:

1. GENERAL
 - 1.1. ENGINEERING DRAWINGS MUST NOT BE SCALED
 - 1.2. CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
 - 1.3. ANY DISCREPANCIES MUST BE REFERRED TO THE ENGINEER IMMEDIATELY TO ENSURE CORRECT RECTIFICATION BEFORE PROCEEDING WITH THE WORK.
 - 1.4. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH APPROPRIATE SAA CODES, VICTORIAN BUILDING REGULATIONS, AND BUILDING CODE OF AUSTRALIA
 - 1.5. ALL REFERENCES TO SAA CODES, VBR'S AND BCA SHALL INCLUDE ALL AMENDMENTS
 - 1.6. SUBSTITUTION SHALL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE ENGINEER
2. CONCRETE
 - 2.1. ALL CONCRETE SHALL BE IN ACCORDANCE WITH AS3600. CONCRETE COMPRESSION STRENGTH SHALL BE: 32MPA AT 28 DAYS FOR PAVEMENT OR AS NOTED ON DRAWINGS
 - 2.2. WHEELBARROW RUNS IF USED MUST BE SUPPORTED DIRECTLY FROM THE FORMWORK AND NOT FROM THE REINFORCEMENT
 - 2.3. MECHANICALLY VIBRATE CONCRETE DURING THE CONCRETE POUR
 - 2.4. CONCRETE SURFACES MUST BE ADEQUATELY CURED. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.
 - 2.5. CONCRETE SIZES AS DRAWN ARE MINIMUM AND DO NOT INCLUDE APPLIED FINISHES
 - 2.6. UNSPECIFIED CONSTRUCTION JOINTS MUST NOT BE MADE WITHOUT THE ENGINEERS PRIOR WRITTEN APPROVAL
3. REINFORCEMENT
 - 3.1. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION. CLEAR COVER NOTED ON DRAWING(S) IS IN ACCORDANCE WITH AS3600 AND SHOULD NOT BE VARIED
 - 3.2. LAPS IN REINFORCEMENT SHOULD COMPLY WITH AS3600
 - 3.3. FIELD WELDING OF REINFORCEMENT IS ONLY PERMITTED WITH THE ENGINEER'S WRITTEN APPROVAL.
 - 3.4. ALL REINFORCEMENT IS TO BE ACCURATELY PLACED, TIED AND SUPPORTED IN POSITION BY BAR CHAIRS AT 750MM CENTRES WHERE APPROPRIATE AND ADEQUATELY IN OTHER MEMBERS
4. FORMWORK
 - 4.1. ALL FORMWORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH AS1509
 - 4.2. RETAIN ALL FORMWORK IN POSITION FOR AT LEAST SEVEN DAYS



**GRATED INLET PIT DETAILS
(IN CONCRETE PAVEMENT)**



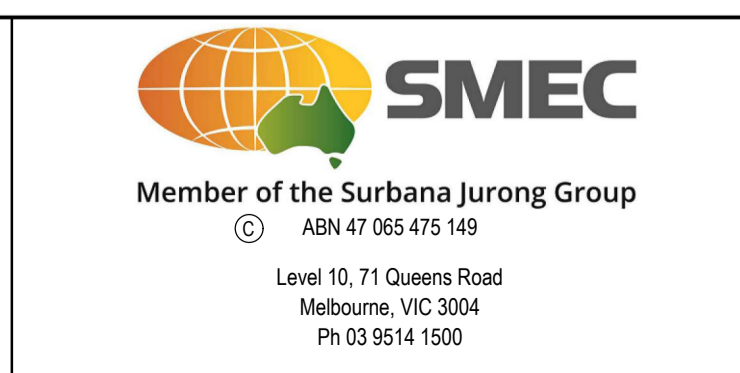
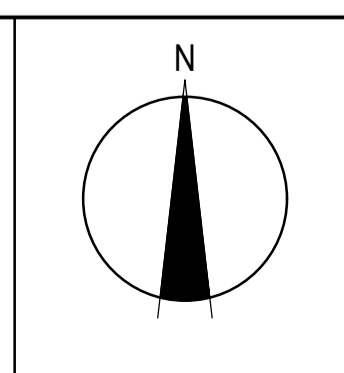
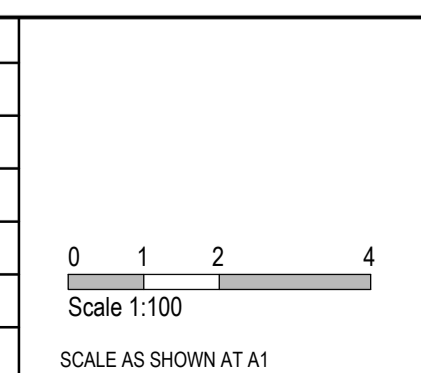
- JOINT DETAIL NOTES:**
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
 2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
 3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
 4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH 'CEMENT AND CONCRETE ASSOCIATION OF AUSTRALIA - CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS 1997'.

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. Locate all underground services before commencement of works **DIAL 1100 BEFORE YOU DIG**
www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

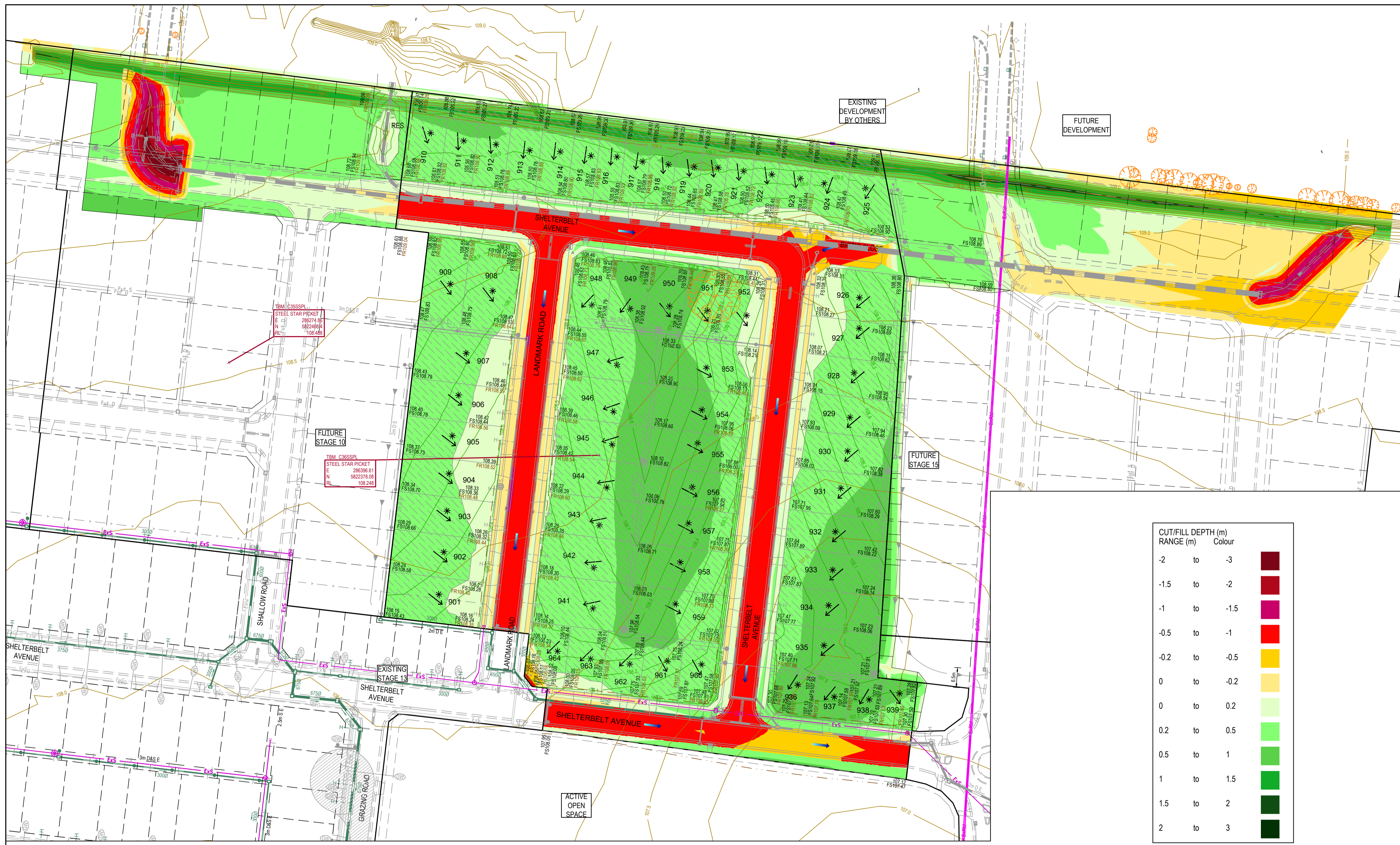
TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SEVENTH BEND

MELWAYS REF 342 K7		PROJECT / DRAWING No. 2250E-09-25		SHEET No. 25 of 27		REVISION 0	
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Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Extended Driveway
Concrete Jointing Detail

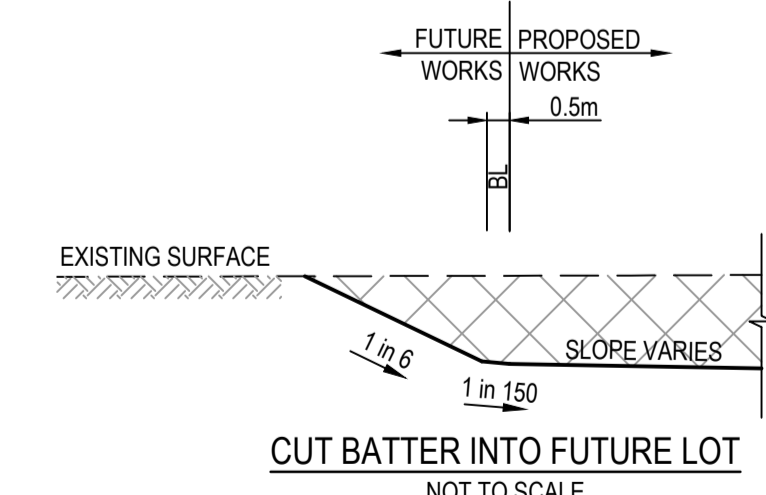
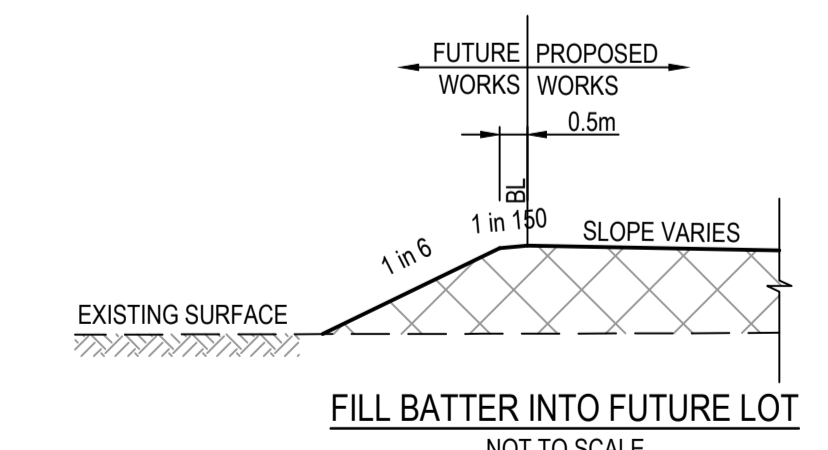


LEGEND - EARTHWORKS PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLED WATER
	AG DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	TW159.60 TOP OF RETAINING WALL LEVEL
	BW159.00 BOTTOM OF RETAINING WALL LEVEL
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	STRUCTURAL FILL > 200mm DEEP
	EXISTING STRUCTURAL FILL > 200mm DEEP
	CUT > 200mm DEEP
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	EXISTING TREE TO BE RETAINED
	EXISTING TREE TO BE REMOVED
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK

CUT/FILL DEPTH (m)

RANGE (m)	Colour
-2 to -3	Dark Red
-1.5 to -2	Red
-1 to -1.5	Magenta
-0.5 to -1	Red-Orange
-0.2 to -0.5	Yellow-Orange
0 to -0.2	Yellow
0 to 0.2	Light Green
0.2 to 0.5	Green
0.5 to 1	Dark Green
1 to 1.5	Very Dark Green
1.5 to 2	Black-Green
2 to 3	Black

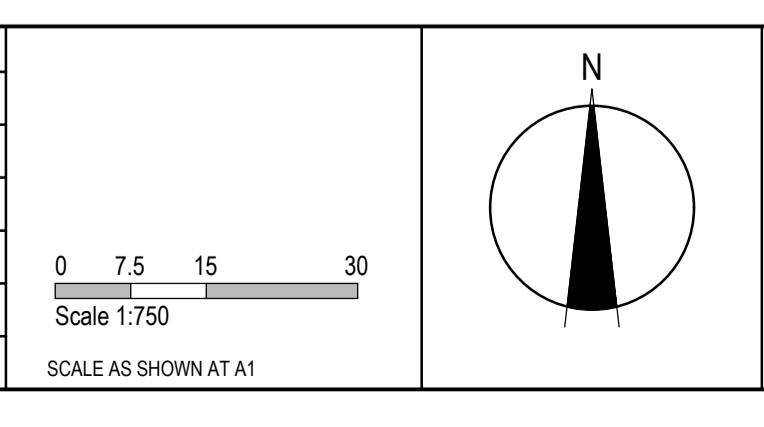


MELTON
APPROVED
DETAILED ENGINEERING PLANS
Mangala Jayasinghe
ENGINEERING SERVICES
Date: 07/07/2021

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	29.06.21	ISSUED FOR CONSTRUCTION	AM/SS	LV

ISSUED FOR CONSTRUCTION

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DRAFTER	A.Montgomery	DESIGNER	T.Whiter
CHECKED	E.Lam	AUTHORISED	N.Hollow
REFERENCE No. 1		REFERENCE No. 2	



SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Level 10, 71 Queens Road
Melbourne, VIC 3004
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Bulk Earthworks Plan
Cut and Fill Information

MELWAYS REF 342 K7	PROJECT / DRAWING No. 2250E-09-26	SHEET No. 26 of 27	REVISION 0
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PHASE	DISCIPLINE CODE	RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK			RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	Residual Risk Likelihood (0-5)	Residual Risk Consequence (0-5)	Residual Risk Rating	RESIDUAL RISK OWNER
Construction	RD	Roads	Construction close to live traffic	New works will be constructed adjacent to live traffic when abutting existing stages.	Contractor	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Vehicle conflict with utility / pit	Contractor	Personal injury, vehicle damage	Sequence works and protect with temp barrier or traffic control (TCP)	TCP provided within contract	N	1	5	5	Constructor
Operational	RD	Roads	Sight Lines	Inadequate drivers response time.	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Vis lines checked and discussed with approval authority as part of design approval process	N	1	4	4	Road Authority
Operational	LS	Lines and Signs	Signs and street lights	Potential for drivers / riders to strike signs and street lights	Road Authority	Increased potential for accidents	Ensure design complies with relevant standard. Undertake thorough Safety Audit	Refer to appropriate standard for sign and lighting offsets	N	1	4	4	Road Authority
Drainage													
Operational	DR	Drainage	Grated Pits	Trip/fall hazard with large spaced grate	Relevant Authority	Increased potential for accidents	Provide pedestrian/bicycle friendly grates where applicable. Refer to pit schedule	Design in accordance with authority and manufacturers standards	N	3	2	6	Authority
Operational	DR	Drainage	Non Standard Large Pits	Potential for pit failure	Relevant Authority	Increased risk to maintenance crews/ vehicles	Structural design in accordance with relevant design principles.	Refer to structural drawings and calculations	N	1	4	4	Authority
Maintenance	DR	Drainage	Access to Pits	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Provide safe landing/ access arrangements as per relevant authority standards	Where possible design pit in location for easy access and outside of permanent water bodies	N	2	5	10	Authority
Maintenance	DR	Drainage	Deep Pits	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, step irons to be provided to appropriate authority standards. Refer to pit schedule	Design in accordance with authority standards	N	1	5	5	Authority
Maintenance	DR	Drainage	Access to drains / culverts	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Access as approved by authority	Design pit in location for easy access as agreed with authority	N	2	3	6	
Sewer													
Maintenance	SE	Sewer	Deep Manholes	Lack of safe entry for maintenance	Relevant Authority	Increased potential for accidents	Contractor to be certified for work in confined spaces, landings and step access provided as per authority standards and schedule	Design in accordance with authority standards. Refer pit schedule on drawings	N	1	5	5	Authority
Maintenance	SE	Sewer	Access to Manholes	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance. Manholes located in compliance with authority standards	Where possible design manhole in location for easy access	N	1	5	5	Authority
Electricity													
Operational	ES	Electrical Services	Electrical Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Electrical designed by sub consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Telstra													
Operational	TE	Telstra	Telstra Design	Location of assets within clear zones e.g.. pits	Relevant Authority	Increased potential for accidents	Telecommunications designed by authority consultant with appropriate accreditation and in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Water													
Operational	WA	Water	Water Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	2	3	6	Authority
Gas													
Operational	GA	Gas	Gas Design	Location of assets within clear zones e.g.. pits/ substations	Relevant Authority	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority



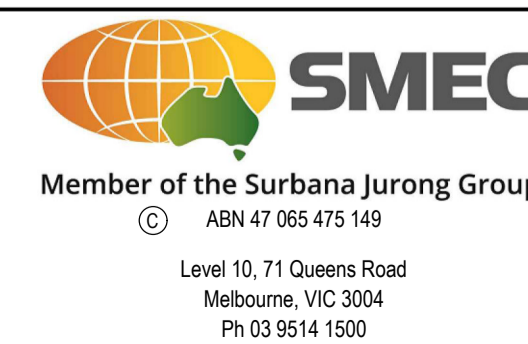
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
A	01.02.19	ISSUED FOR INFORMATION ONLY	TWISS	LV

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TITLE	NAME
DRAFTER	A.Montgomery
DESIGNER	T.Whiter
CHECKED	E.Lam
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	



SCALE AS SHOWN AT A1



SEVENTH BEND

Seventh Bend - Stage 09
Melton City Council
Road and Drainage
Safety In Design

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-09-85	26 of 26	A