Seventh Bend

Seventh Bend - Stage 13

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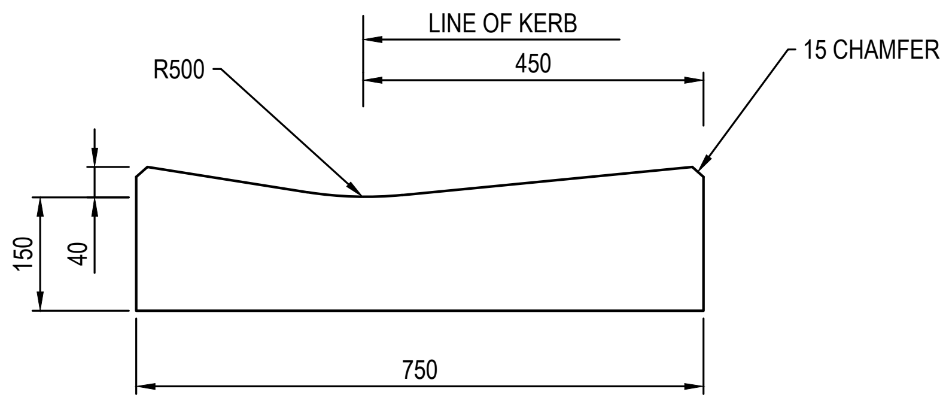
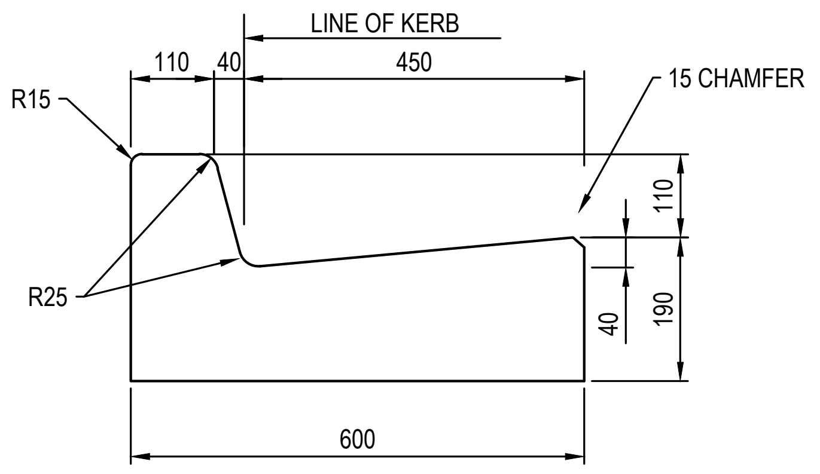
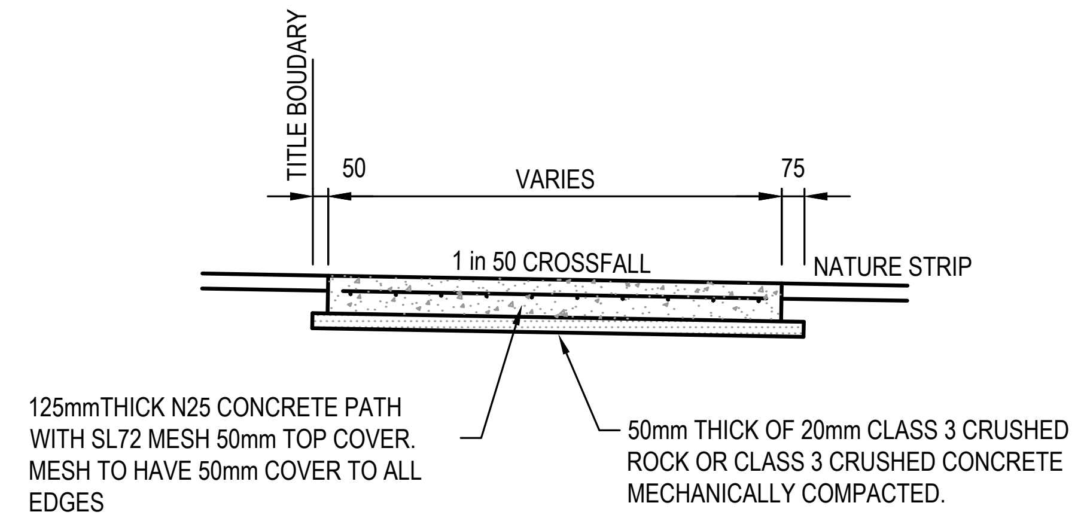


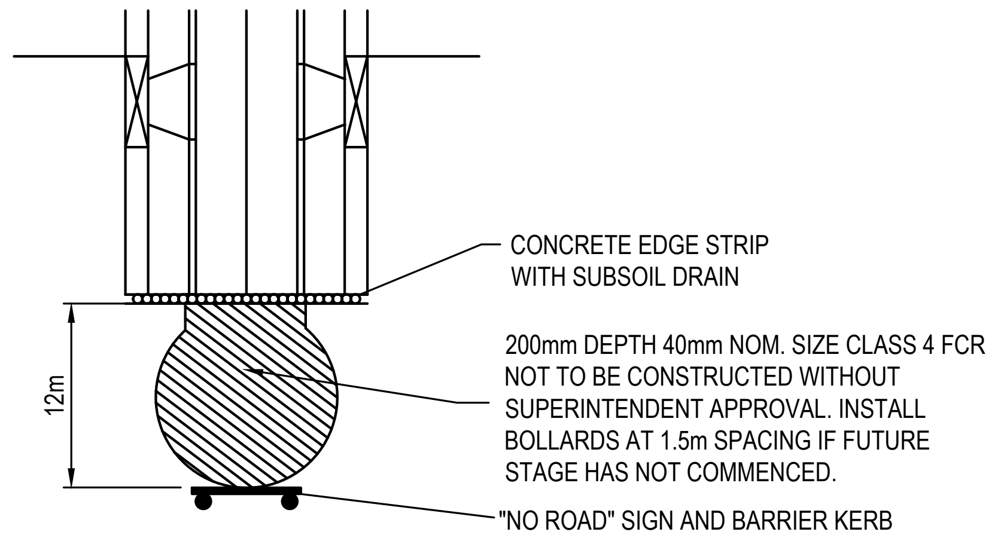
750 INVERT CHANNEL DETAIL
TO INTERSECT WITH 600 WIDTH
BARRIER KERB AND CHANNEL DETAIL
SCALE 1:10
EDCM



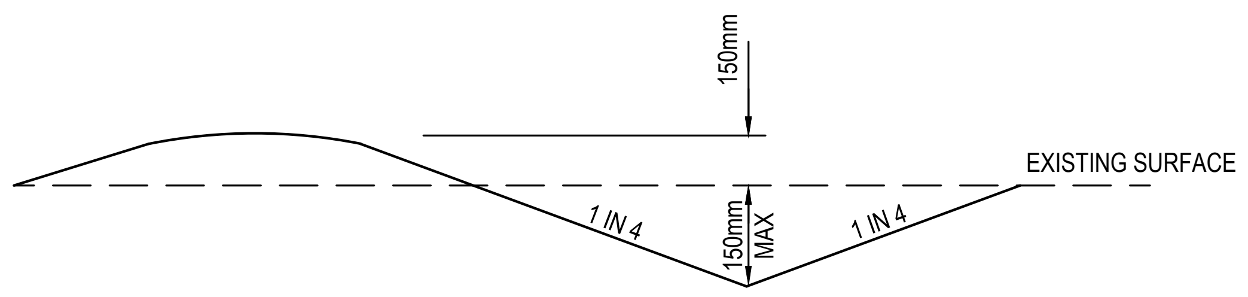
600 B2 KERB DETAIL
SCALE 1:10
EDCM



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



TYPICAL TEMPORARY TURN AREA DETAIL
NOT TO SCALE



SWALE DRAIN DETAIL
NOT TO SCALE

GENERAL NOTES (MELTON CITY COUNCIL)

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH A.S. 4000-1992 GENERAL CONDITIONS OF CONTRACT AND CURRENT MELTON CITY COUNCIL SPECIFICATIONS AND EDCM ADDENDUM STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER OR THEIR REPRESENTATIVE.
2. 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.
3. THE CONTRACTOR SHALL:
   - 3.1. COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
   - 3.2. NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
   - 3.3. ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
4. THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
5. THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVENT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
6. 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.
7. 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.
8. 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.
9. THE CONTRACTOR IS TO OBTAIN THE NECESSARY ROAD OPENING PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN A PREVIOUSLY CONSTRUCTED ROADWAY.
10. ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
11. THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
12. ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE
13. TBM'S TO BE MAINTAINED AND PROTECTED BY THE CONTRACTOR FOR THE DURATION OF THE WORKS.
14. ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25MPa AT 28 DAYS.
15. 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 PRINCIPAL ON COMPLETION OF THE WORKS.
16. 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.
17. ADDITIONAL AND OVEREXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
18. THE NATURE STRIPS AND CUT OR FILLED AREAS ARE TO BE TOPSOILED WITH 100mm OF APPROVED MATERIAL.
19. 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.
20. 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%.
21. 100mm NOMINAL DIAMETER SUBSOIL DRAIN SHALL BE PROVIDED BEHIND ALL KERB AND CHANNEL AS PER STANDARD DRAWING EDCM 202
22. 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. NBN CONDUITS WILL BE SUPPLIED BY NBN'S EXPENSE. IN TRENCHES EXCAVATED AND BACKFILLED BY THE CONTRACTOR. NBN SIZES VARIES - WHITE PVC NBN 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.
23. ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 FCR.
24. 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.
25. 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.
26. DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
27. ALL RESIDENTIAL FOOTPATHS TO BE MINIMUM 1.50m WIDE UNLESS OTHERWISE INDICATED. FOOTPATH TO BE 125mm THICK N25 CONCRETE REINFORCED WITH SL72 MESH ON 50mm COMPACTED DEPTH 20mm CLASS 3 FCR BASE, AS PER EDCM 401.
28. ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 501 TO 503. SINGLE DRIVEWAYS TO BE OFFSET 0.75m FROM SIDE BOUNDARY OR EASEMENT.
29. ALL ALLOTMENTS AND RESERVES SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE.
30. APPROVAL FOR THE REMOVAL AND DISPOSAL OF ANY EXCAVATED MATERIAL OR TOPSOIL IS REQUIRED FROM COUNCIL.
31. THE CONTRACTOR TO ERECT STREET NAME SIGNS & POLE AS DIRECTED BY THE SUPERINTENDENT.
32. 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.
33. CONFIRMATION OF THE ASPHALT WEARING COURSE IS TO BE DEFFERED UNTIL INSTRUCTED BY THE SUPERINTENDENT.
34. 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.
35. 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.
36. INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIRE PLUG.
37. 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.
38. ALL DRAINAGE PIT COVERS AND GRATES IN ACCORDANCE WITH EDCM 601 TO 608
39. 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:
   - 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.

AUSNET SERVICES (GAS) - STANDARD NOTES

1. GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY AUSNET SERVICES.
2. CONTRACTOR RESPONSIBLE FOR EXCAVATION OF TRENCH, SUPPLY AND PLACEMENT OF REQUIRED BEDDING AND BACKFILLING IN ACCORDANCE WITH AUSNET SERVICES SPECIFICATIONS 1601.
3. TRENCH SHOULD BE WIDE ENOUGH TO ACCOMMODATE AUSNET SERVICES INFRASTRUCTURE IN ACCORDANCE WITH AUSNET SERVICES STANDARDS.
4. CONTRACTOR TO NOTIFY AUSNET SERVICES A MINIMUM OF TWENTY (20) WORKING DAYS PRIOR OF COMMENCEMENT OF CONSTRUCTION TO SCHEDULE WORKS.

TBM SETOUT TABLE			
POINT	**EAST**	**NORTHING**	**ELEVATION**
C35SSPL	286,274.86	5,822,408.41	108.49
C36SSPL	286,396.6	5,822,378.08	108.25
C45SSPL	286,349.44	5,822,239.61	107.79
C46SSPL	286,271.83	5,822,132.01	107.22

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-13-85
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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	CHANGES MADE TO PAGE NAMES	AM	LV

SUBJECT TO APPROVAL

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.

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

N

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SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cover Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-01	01 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-01.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:02:17 PM

ROAD LAYOUT TABLE									
ROAD NAME	ROAD CLASSIFICATION	RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
			LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
GRAZING ROAD	AS1	14	6.40	7.30	7.60	B2	B2	5.20	1.50
SAMUEL ROAD (EAST / WEST)	AS1	16	6.40	7.30	7.60	B2	B2	4.50	4.20
SAMUEL ROAD (NORTH / SOUTH)	AS1	14	6.40	7.30	7.60	B2	B2	1.50	5.20
SHALLOW ROAD	AS1	16	6.40	7.30	7.60	B2	B2	4.50	4.20
LANDMARK ROAD	AS1	16	6.40	7.30	7.60	B2	B2	4.50	4.20
SHELTERBELT WAY (NORTH / SOUTH)	AS1	14	6.40	7.30	7.60	B2	B2	1.50	5.20
SHELTERBELT WAY (LOTS 1301-1315)	AS1	16	6.40	7.30	7.60	B2	B2	4.50	4.20
SHELTERBELT WAY (LOTS 1316-1318)	AS1	14	6.40	7.30	7.60	B2	B2	4.50	2.20

NOTE: ALL B2 KERB IS 600mm WIDE

C

SERVICES OFFSET TABLE				
ROAD NAME	GAS	WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
GRAZING ROAD	2.30 W	2.80 W	3.60 W	1.85 W
SAMUEL ROAD (EAST / WEST)	2.10 N	2.60 N	2.60 S	1.85 S
SAMUEL ROAD (NORTH / SOUTH)	2.50 E	3.00 E	3.60 E	1.85 E
SHALLOW ROAD	2.10 W	2.60 W	2.60 E	1.85 E
LANDMARK ROAD	2.10 W	2.60 W	2.60 E	1.85 E
SHELTERBELT WAY (NORTH / SOUTH)	2.50 E	3.00 E	3.60 E	1.85 E
SHELTERBELT WAY (LOTS 1301-1315)	2.10 N	2.60 N	2.60 S	1.85 S
SHELTERBELT WAY (LOTS 1316-1318)	2.10 N	2.60 N	1.00 S	0.30 S

F
C

SERVICE LOCATIONS ARE IN ACCORDANCE WITH APPENDIX H OF THE MPA GUIDELINES AND THE DETAIL PLAN **SHOULD NOT** BE RELIED UPON FOR THE ACCURATE POSITIONING OF **DRAINAGE LINES GREATER THAN 450dia. BEHIND BACK OF KERB.** PIPES GREATER THAN 450dia. WILL BE HAUNCHED UNDERNEATH KERB AND CHANNEL WHERE APPLICABLE TO ENSURE THAT PIT WIDTH BEHIND BACK OF KERB DOES NOT EXCEED 0.9m.

LEGEND - LAYOUT PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
S	SEWER & MAINTENANCE STRUCTURES
– – – – –H	HOUSE DRAIN
—— E ——	ELECTRICITY (U.GROUND)
—— O/H ——	ELECTRICITY (O.HEAD)
—— G ——	GAS
—— T ——	TELSTRA
—— O ——	OPTIC FIBRE
—— W ——	WATER
—— RW ——	RECYCLE WATER
—— Ag ——	AG. DRAIN
—(GW)—	SERVICE CONDUITS
▦	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
—> ——> —	EXISTING SWALE DRAIN
Ex S	EXISTING SEWER & MAINTENANCE STRUCTURES
– – – – –H	EXISTING HOUSE DRAIN
—— Ex E ——	EXISTING ELECTRICITY (UNDER GROUND)
—— O/H E ——	EXISTING ELECTRICITY OVERHEAD
—— Ex G ——	EXISTING GAS
—— Ex T ——	EXISTING TELSTRA
—— Ex O ——	EXISTING OPTIC FIBRE
—— Ex W ——	EXISTING WATER
—— Ex RW ——	EXISTING RECYCLED WATER
—— Ex.Ag ——	EXISTING AG. DRAIN
—(GWR)—	EXISTING SERVICE CONDUITS
▦	EXISTING TACTILE PAVERS
Fut D	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
—> ——> —	FUTURE SWALE DRAIN
FUT S	FUTURE SEWER & MAINTENANCE STRUCTURES
– – – – –H	FUTURE HOUSE DRAIN
—— Fut E ——	FUTURE ELECTRICITY (UNDER GROUND)
—— FutO/H E ——	FUTURE ELECTRICITY OVERHEAD
—— Fut G ——	FUTURE GAS
—— Fut T ——	FUTURE TELSTRA
—— Fut O ——	FUTURE OPTIC FIBRE
—— Fut W ——	FUTURE WATER
—— Fut RW ——	FUTURE RECYCLED WATER
—— Fut Ag ——	FUTURE AG. DRAIN
—(GWR)—	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

CONSTRUCT EDGE STRIP, SUB SOIL DRAIN, TURNING AREA & INSTALL NO ROAD SIGN AT LIMIT OF WORKS IF FUTURE STAGE HAS NOT COMMENCED

TREES TO BE REMOVED

INSTALL PSM

MOUNTABLE TRAFFIC ISLANDS AS PER STANDARD DRAWING MCC 305 SI3

VEHICLE EXCLUSION FENCING (BOLLARDS). REFER TO MELTON CITY COUNCIL STANDARD DRAWING S48. TO BE CONSTRUCTED BY CIVIL. HEIGHT ABOVE GROUND TO BE 1300mm TO MATCH PREVIOUS STAGES

CAPPED ENDPIPES FOR FUTURE CONNECTION

MOUNTABLE TRAFFIC ISLANDS AS PER STANDARD DRAWING MCC 305 SI3

VEHICLE EXCLUSION FENCING (BOLLARDS).REFER TO MELTON CITY COUNCIL STANDARD DRAWING S48. TO BE CONSTRUCTED BY CIVIL. HEIGHT ABOVE GROUND TO BE 1300mm TO MATCH PREVIOUS STAGES

REMOVE EXISTING CONCRETE EDGE STRIP, TURNING AREA AND MATCH NEATLY INTO EXISTING CONSTRUCTION

EXISTING SWALES IF CONSTRUCTED TO BE DESLUDGED, EXCAVATED TO A SOLID BASE AND FILLED TO LEVEL 1 REQUIREMENTS

CONSTRUCT SWALE TO ALLOW FREE DRAINING TO ENDPIPE

CONSTRUCT EDGE STRIP & SUB SOIL DRAIN AND NO ROAD SIGN AT LIMIT OF WORKS IF FUTURE STAGE HAS NOT COMMENCED

CAPPED ENDPIPES FOR FUTURE CONNECTIONS

CONSTRUCT EDGE STRIP & SUB SOIL DRAIN AND NO ROAD SIGN AT LIMIT OF WORKS IF FUTURE STAGE HAS NOT COMMENCED

CONSTRUCT SWALE TO ALLOW FREE DRAINING TO ENDPIPE

CAPPED ENDPIPES FOR FUTURE CONNECTIONS

BLOCK ENTRY PITS UNTIL FUTURE OUTLET IS CONSTRUCTRED

CONSTRUCT EDGE STRIP & SUB SOIL DRAIN AND NO ROAD SIGN AT LIMIT OF WORKS IF FUTURE STAGE HAS NOT COMMENCED

PROVIDE PIT BLOCKOUT IN EASTERN AND SOUTHERN WALLS

INSTALL PSM

PROVIDE TWO 150Ø AND ONE 100Ø CONDUITS

INDICATIVE LOCATION OF 2.5m WIDE FOOTPATH. REFER LANDSCAPING PLANS FOR FURTHER INFORMATION. TO BE CONSTRUCTED AS PART OF DEVELOPMENT OF RECREATION RESERVE.

CONNECT VIA EXISTING ENDPIPE AT IL 105.00

REMOVE EXISTING CONCRETE EDGE STRIP AND MATCH NEATLY INTO EXISTING CONSTRUCTION

CONNECT VIA EXISTING ENDPIPE

CONNECT VIA EXISTING ENDPIPE AT IL 105.52

CONNECT VIA EXISTING ENDPIPE AT IL 105.64

REMOVE EXISTING CONCRETE EDGE STRIP AND MATCH NEATLY INTO EXISTING CONSTRUCTION

CONNECT TO EXISTING SEWER STUB FROM EXISTING BRANCH SEWER

CONTRACTOR TO VERIFY LOCATION OF EXISTING RISING MAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION

REFER ABOVE FOR CONTINUATION

REFER BELOW FOR CONTINUATION

WARNING
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ASSESS THE RISK - STAY SAFE

WARNING
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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	DES/DFT	APPROVAL
B	06.05.20	DRIVEWAYS AND DRAINAGE UPDATED	AK	LV
C	20.08.20	ROAD NAME CHANGED	AM	LV
D	02.09.20	LOT NUMBER CORRECTED	AM	LV
E	14.09.20	NOTE AMENDED REGARDING POST AND CABLE FENCING	AM	LV
F	01.10.20	GRAZING ROAD SERVICE OFFSETS ALTERED	AM	LV

SUBJECT TO APPROVAL

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OHS Management . AS/NZS 4801 — Global-Mark.com.au®
Environmental Management . ISO14001 — Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 2.5 5 10
Scale 1:250
0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

SMEC
Member of the Surbana Jurong Group
ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Layout Plan

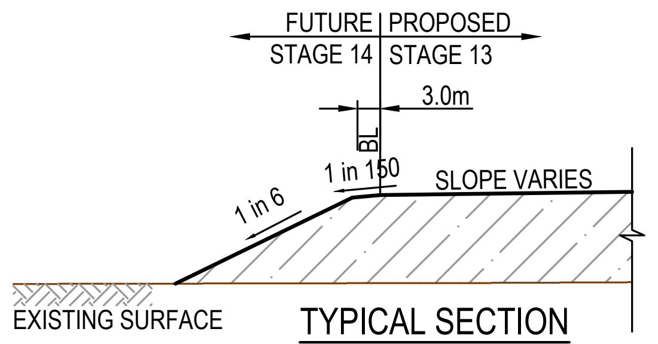
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-02	02 of 22	F

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-02.dwg   PRINTED BY: AM13398 on 01/10/2020 at 06:06:49 PM

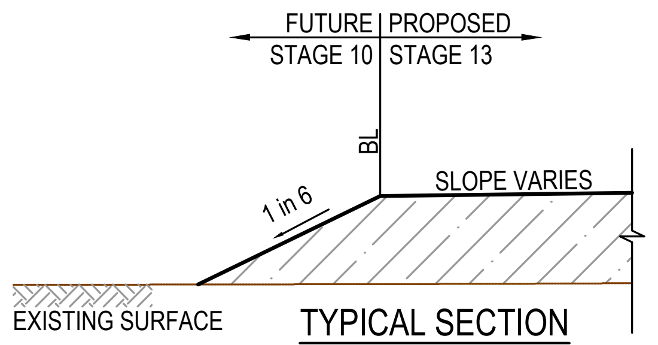
NOTE: REFER TO SHEET 02 FOR LEVEL INFORMATION

CUT/FILL DEPTH (m)

RANGE (m)			Colour
-2	to	-3	🟥
-1.5	to	-2	🟥
-1	to	-1.5	🟪
-0.5	to	-1	🟥
-0.2	to	-0.5	🟧
0	to	-0.2	🟨
0	to	0.2	🟩
0.2	to	0.5	🟩
0.5	to	1	🟩
1	to	1.5	🟩
1.5	to	2	🟩
2	to	3	🟩



TYPICAL SECTION
NOT TO SCALE



TYPICAL SECTION
NOT TO SCALE

LEGEND - EARTHWORKS PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

─●─	STORMWATER DRAIN, PIT & PROPERTY INLET
─	MAIN DRAIN
─▶─	SWALE DRAIN
●─S─	SEWER & MAINTENANCE STRUCTURES
─ ─ ─H	HOUSE DRAIN
─E─	ELECTRICITY (U.GROUND)
─0/H─	ELECTRICITY (O.HEAD)
─G─	GAS
─T─	TELSTRA
─0─	OPTIC FIBRE
─W─	WATER
─RW─	RECYCLE WATER
─Ag─	AG. DRAIN
─GW─	SERVICE CONDUITS
▦	TACTILE PAVERS
─●─	EXISTING STORMWATER DRAIN
─	EXISTING MAIN DRAIN
─>─>─	EXISTING SWALE DRAIN
○─Ex S─	EXISTING SEWER & MAINTENANCE STRUCTURES
─ ─ ─H	EXISTING HOUSE DRAIN
─Ex E─	EXISTING ELECTRICITY (UNDER GROUND)
─0/H E─	EXISTING ELECTRICITY OVERHEAD
─Ex G─	EXISTING GAS
─Ex T─	EXISTING TELSTRA
─Ex 0─	EXISTING OPTIC FIBRE
─Ex W─	EXISTING WATER
─Ex RW─	EXISTING RECYCLED WATER
─Ex.Ag─	EXISTING AG. DRAIN
─GWR─	EXISTING SERVICE CONDUITS
▦	EXISTING TACTILE PAVERS
─Fut D─●─	FUTURE STORMWATER DRAIN
─	FUTURE MAIN DRAIN
─>─>─	FUTURE SWALE DRAIN
○─FUT S─	FUTURE SEWER & MAINTENANCE STRUCTURES
─ ─ ─H	FUTURE HOUSE DRAIN
─Fut E─	FUTURE ELECTRICITY (UNDER GROUND)
─Fut0/H E─	FUTURE ELECTRICITY OVERHEAD
─Fut G─	FUTURE GAS
─Fut T─	FUTURE TELSTRA
─Fut 0─	FUTURE OPTIC FIBRE
─Fut W─	FUTURE WATER
─Fut RW─	FUTURE RECYCLED WATER
─Fut Ag─	FUTURE AG. DRAIN
─GWR─	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 PATH (2.5m WIDTH)
▭	PROPOSED ROAD PAVING
■	PROPOSED INTERSECTION TREATMENT
▭	EXISTING ROAD PAVING
─150─	EXISTING CONTOURS

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	ROAD NAME CHANGED	AM	LV
C	02.09.20	LOT NUMBER CORRECTED	AM	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

SMEC
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Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
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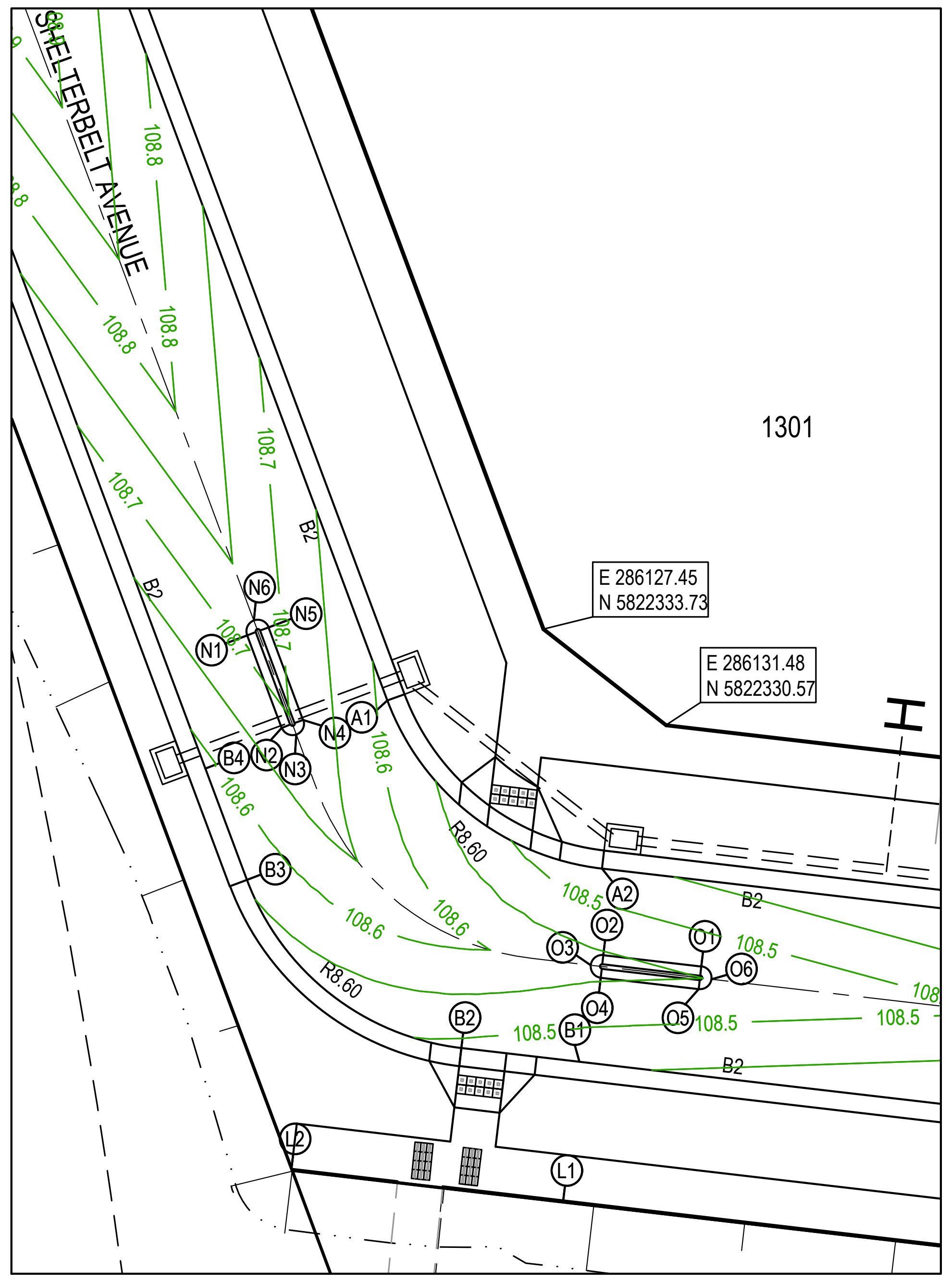
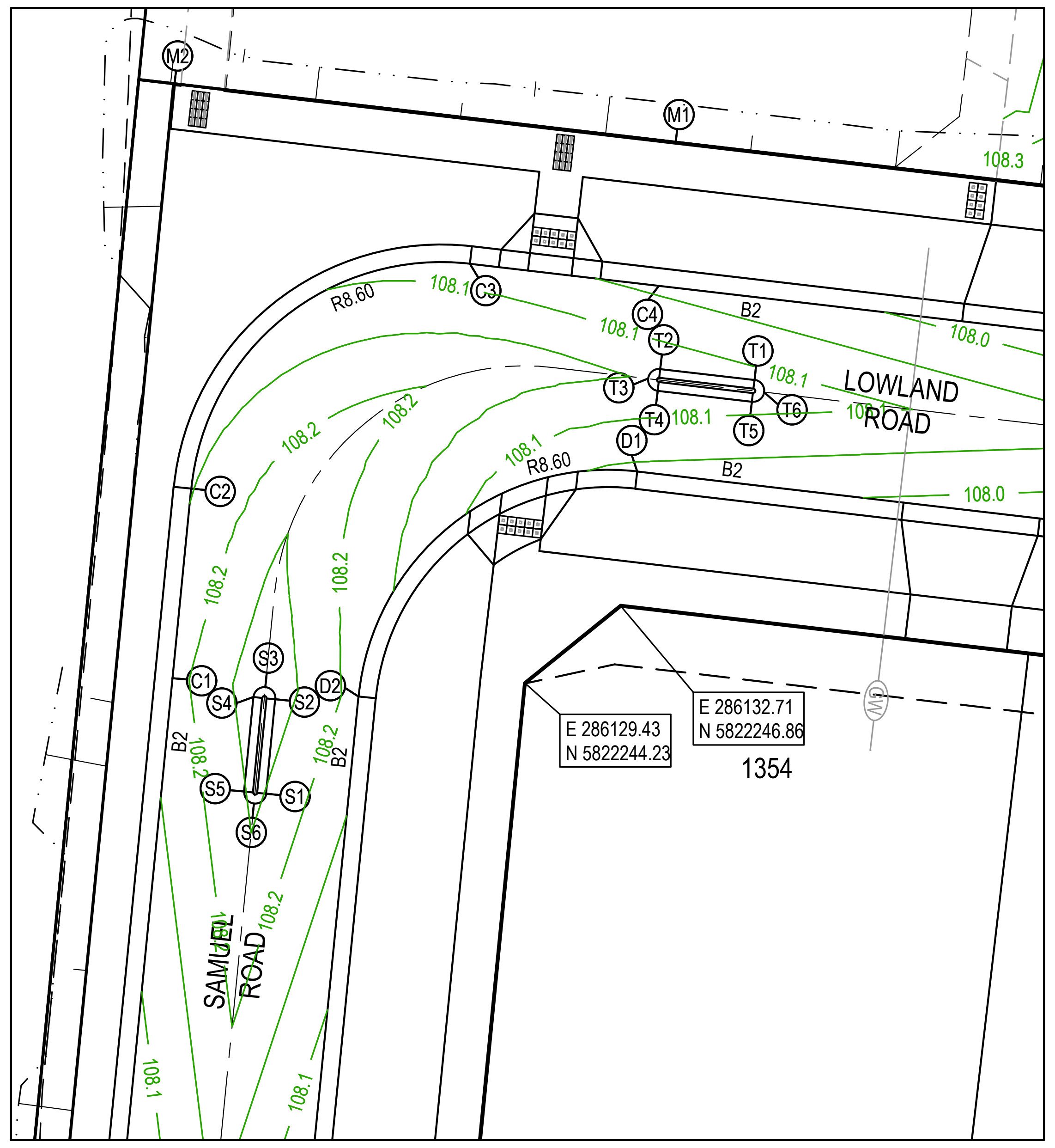
SEVENTH BEND

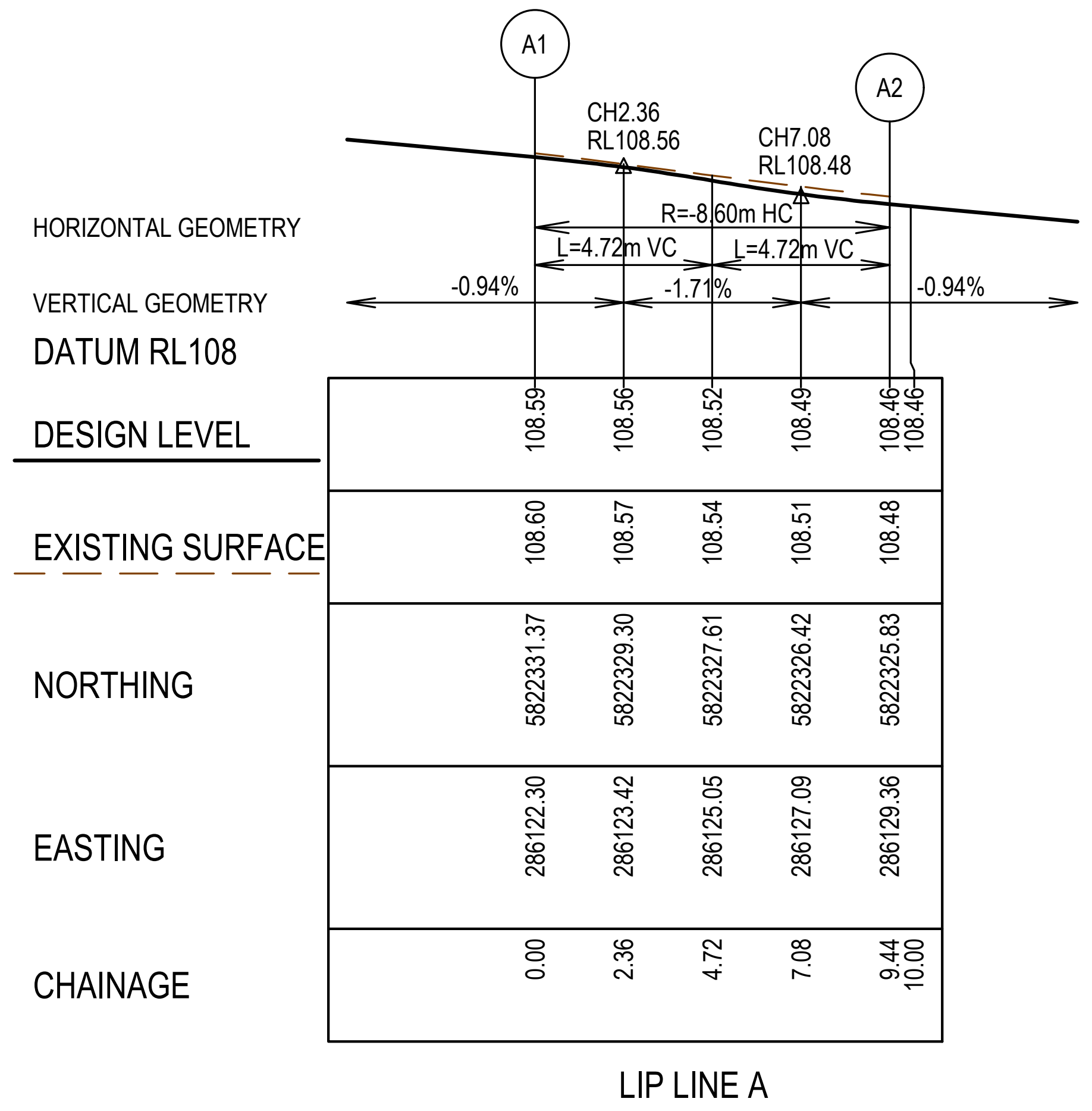
Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Earthworks & Retaining Wall Setout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-03	03 of 22	C

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-03.dwg PRINTED BY: AM13398 on 02/09/2020 at 09:44:03 AM

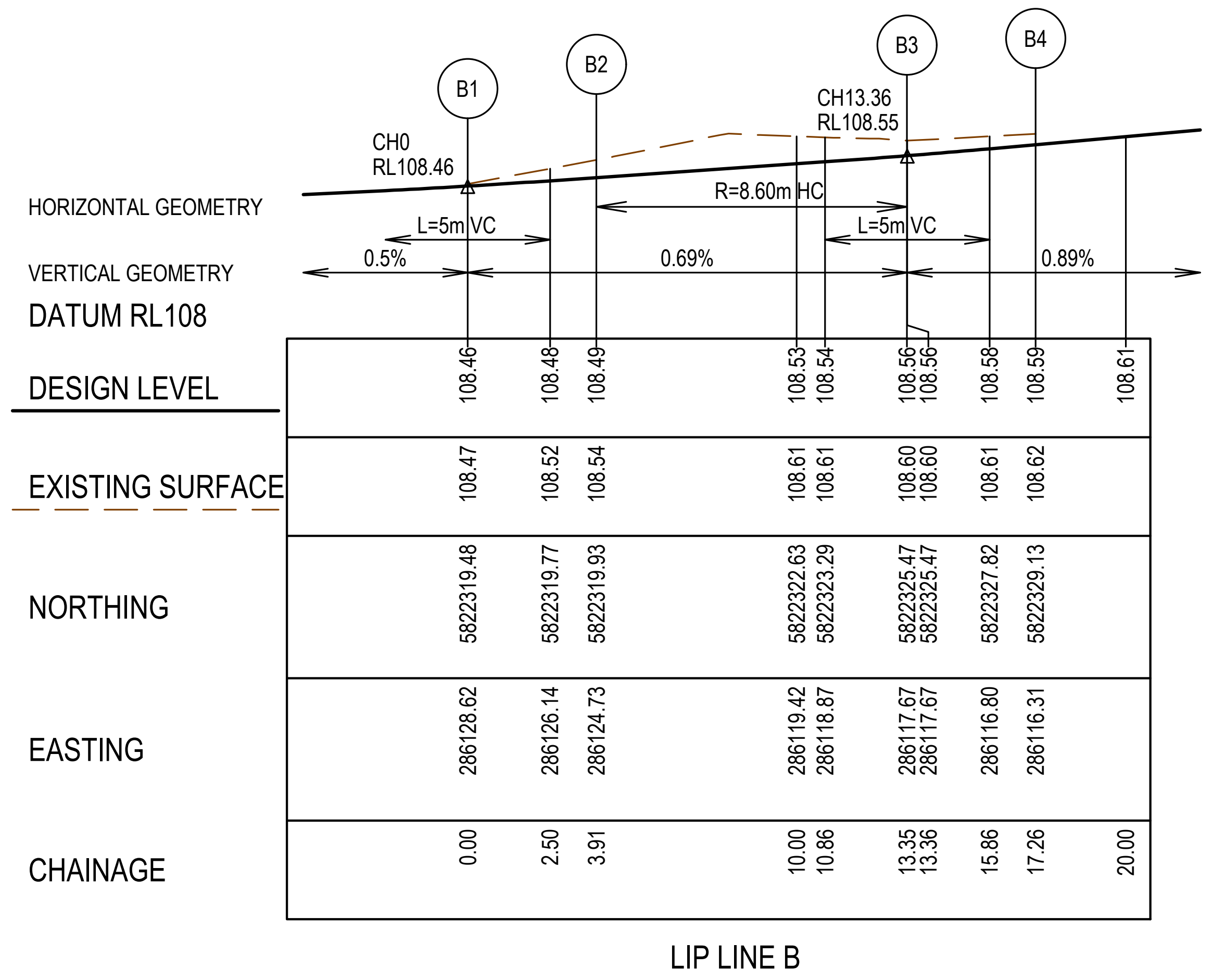






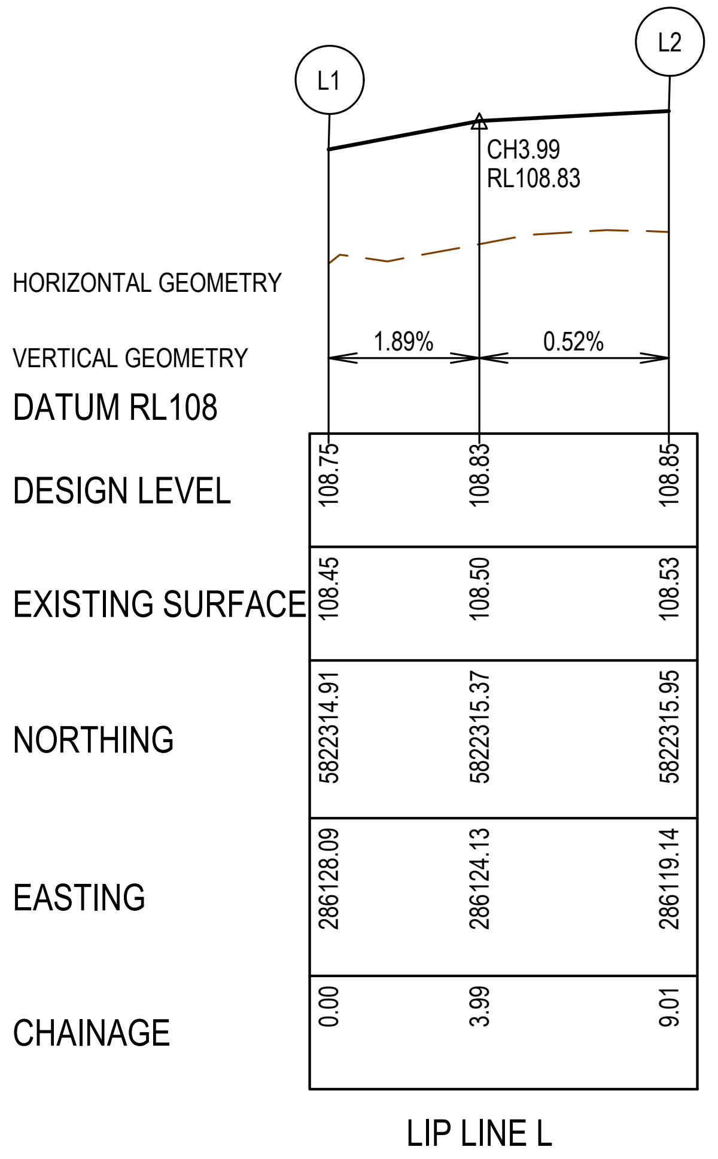
DESIGN LEVEL	108.59	108.56	108.52	108.49	108.46	108.46
EXISTING SURFACE	108.60	108.57	108.54	108.51	108.48	
NORTHING	5822331.37	5822329.30	5822327.61	5822326.42	5822325.83	
EASTING	286122.30	286123.42	286125.05	286127.09	286129.36	
CHAINAGE	0.00	2.36	4.72	7.08	9.44	10.00

LIP LINE A



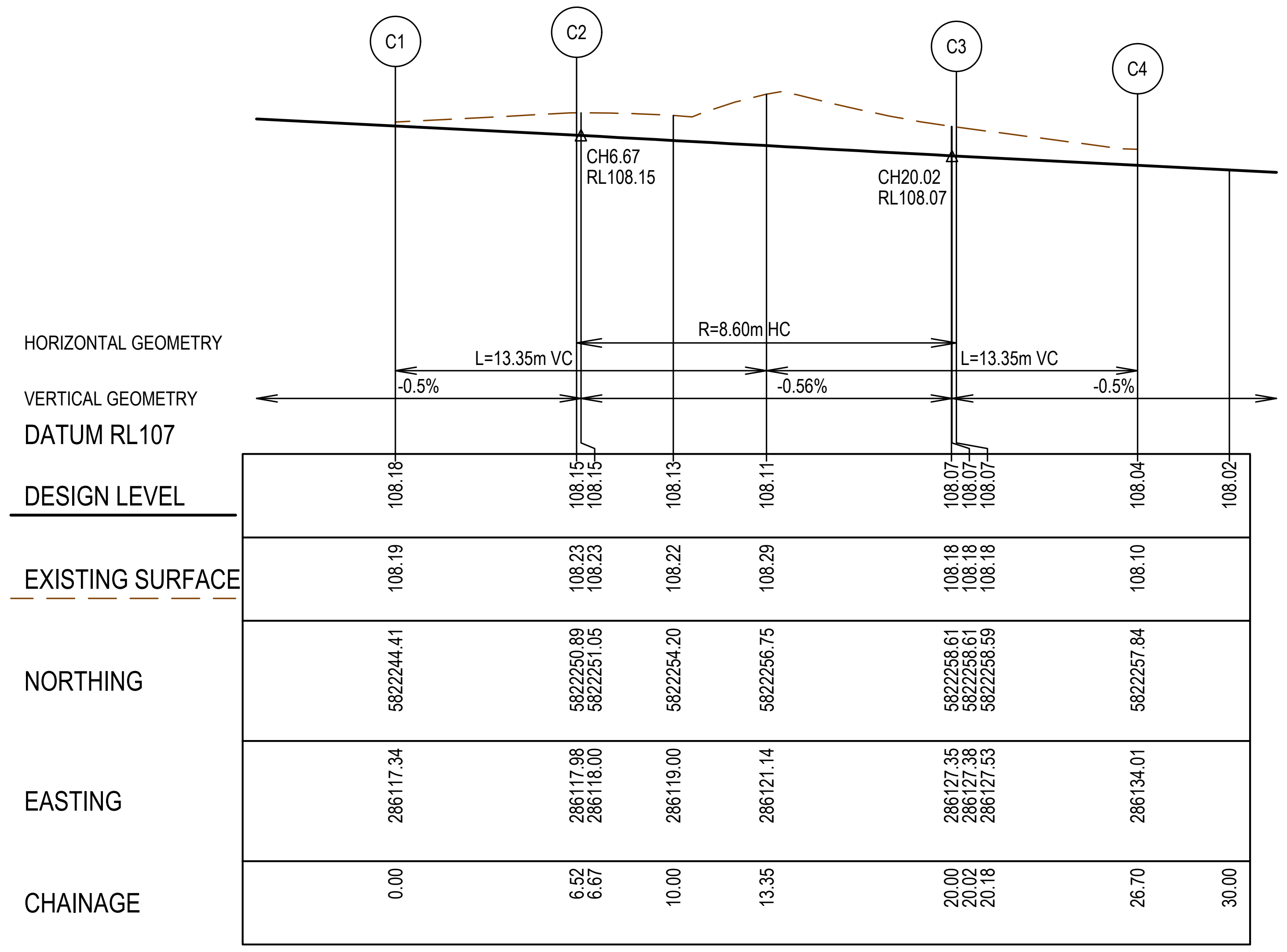
DESIGN LEVEL	108.46	108.48	108.49	108.53	108.54	108.56	108.56	108.58	108.59	108.61
EXISTING SURFACE	108.47	108.52	108.54	108.61	108.61	108.60	108.60	108.61	108.62	
NORTHING	5822319.48	5822319.77	5822319.93	5822322.63	5822323.29	5822325.47	5822325.47	5822327.82	5822329.13	
EASTING	286128.62	286126.14	286124.73	286119.42	286118.87	286117.67	286117.67	286116.80	286116.31	
CHAINAGE	0.00	2.50	3.91	10.00	10.86	13.35	13.36	15.86	17.26	20.00

LIP LINE B



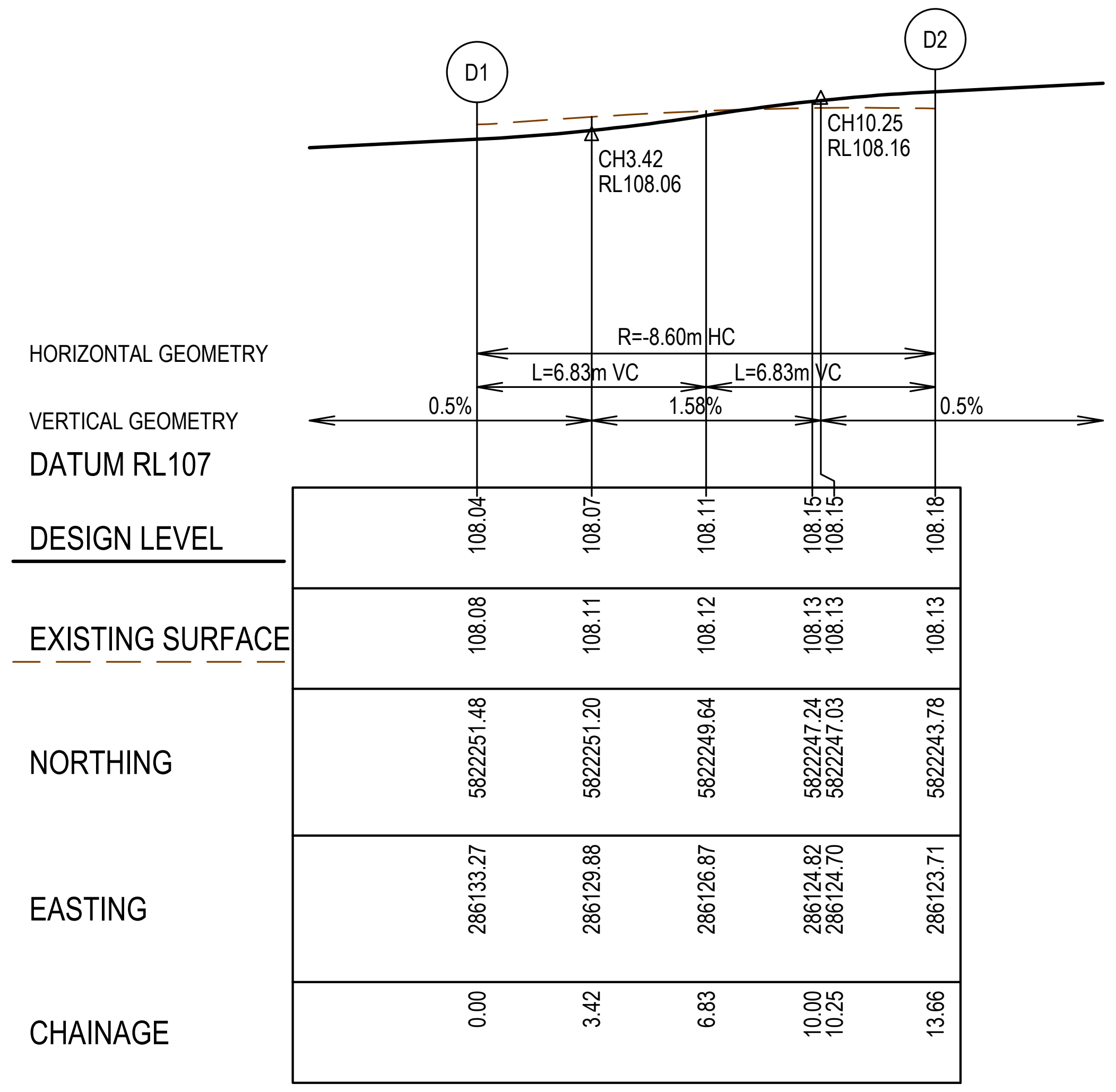
DESIGN LEVEL	108.75	108.83	108.85
EXISTING SURFACE	108.45	108.50	108.53
NORTHING	5822314.91	5822315.37	5822315.95
EASTING	286128.09	286124.13	286119.14
CHAINAGE	0.00	3.99	9.01

LIP LINE L



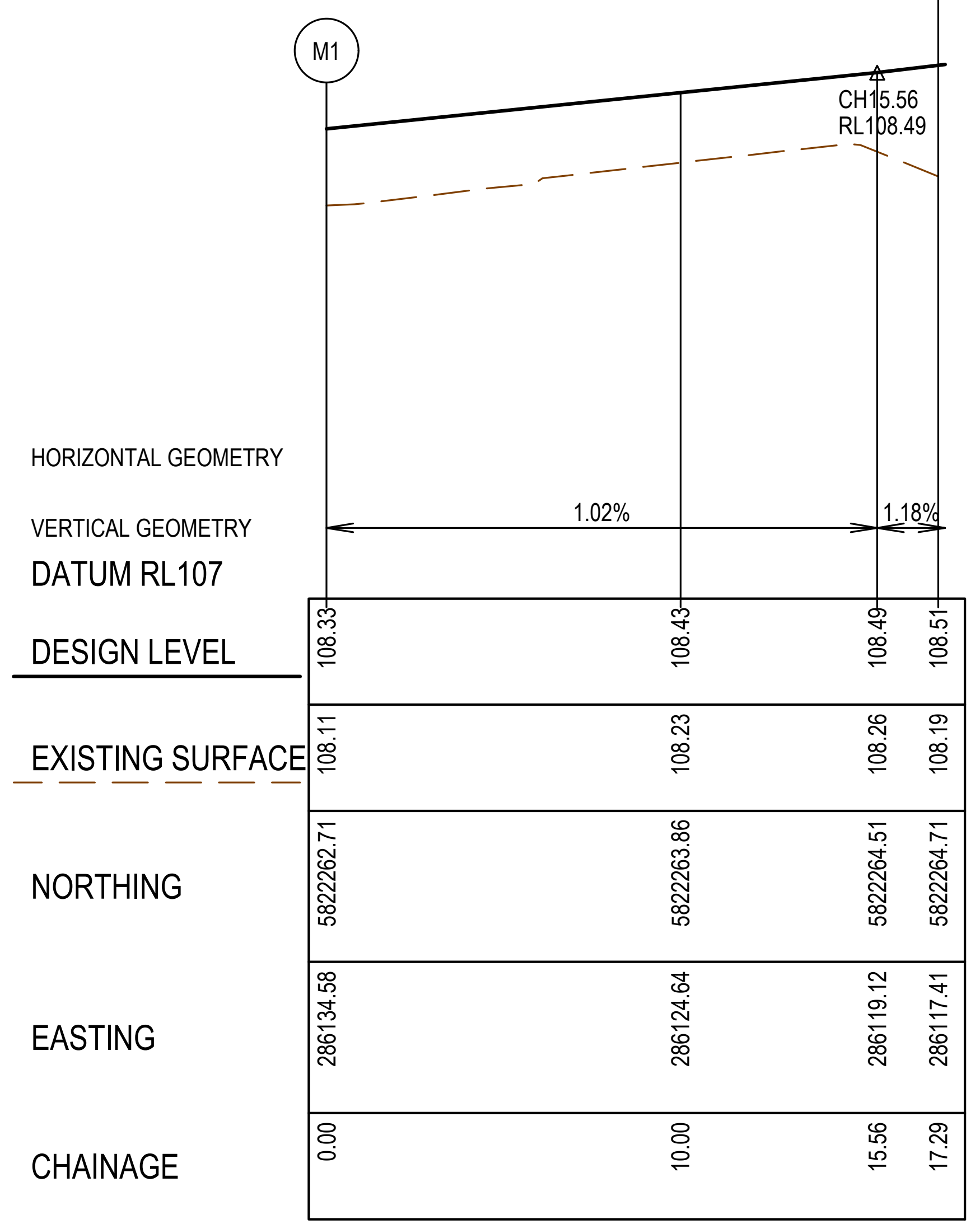
DESIGN LEVEL	108.18	108.15	108.15	108.13	108.11	108.07	108.07	108.07	108.04	108.02
EXISTING SURFACE	108.19	108.23	108.23	108.22	108.29	108.18	108.18	108.18	108.10	
NORTHING	5822244.41	5822250.89	5822251.05	5822254.20	5822256.75	5822258.61	5822258.61	5822258.59	5822257.84	
EASTING	286117.34	286117.98	286118.00	286119.00	286121.14	286127.35	286127.38	286127.53	286134.01	
CHAINAGE	0.00	6.52	6.67	10.00	13.35	20.00	20.02	20.18	26.70	30.00

LIP LINE C



DESIGN LEVEL	108.04	108.07	108.11	108.15	108.15	108.18
EXISTING SURFACE	108.08	108.11	108.12	108.13	108.13	108.13
NORTHING	5822251.48	5822251.20	5822249.64	5822247.24	5822247.03	5822243.78
EASTING	286133.27	286129.88	286126.87	286124.82	286124.70	286123.71
CHAINAGE	0.00	3.42	6.83	10.00	10.25	13.66

LIP LINE D



DESIGN LEVEL	108.33	108.43	108.49	108.51
EXISTING SURFACE	108.11	108.23	108.26	108.19
NORTHING	5822262.71	5822263.86	5822264.51	5822264.71
EASTING	286134.58	286124.64	286119.12	286117.41
CHAINAGE	0.00	10.00	15.56	17.29

LIP LINE M

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

▣= = =●	STORMWATER DRAIN, PIT & PROPERTY INLET
▣= = = =	MAIN DRAIN
●—S—┬—■	SEWER & MAINTENANCE STRUCTURES
— — — —H	HOUSE DRAIN
—GWR—	SERVICE CONDUITS
▦ ▤	TACTILE PAVERS
▣= = =●	EXISTING STORMWATER DRAIN
▣= = = =	EXISTING MAIN DRAIN
○—Ex S—	EXISTING SEWER & MAINTENANCE STRUCTURES
—GWR—	EXISTING SERVICE CONDUITS
▦ ▤	EXISTING TACTILE PAVERS
□—Fut D—●	FUTURE STORMWATER DRAIN
▣—	FUTURE MAIN DRAIN
○—FUT S—	FUTURE SEWER & MAINTENANCE STRUCTURES
— — — —H	FUTURE HOUSE DRAIN
—GWR—	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

Alignment N

Point no	Easting	Northing
N1	286117.685	5822333.515
N2	286118.822	5822330.470
N3	286119.304	5822330.250
N4	286119.524	5822330.733
N5	286118.388	5822333.777
N6	286117.905	5822333.998

Curve no	I	Radius	Arc	A	B	X	Y	I
N2 - N3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
N3 - N4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
N5 - N6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
N6 - N1	611.155	0.375	-4.000	0.157	0.115	-0.171	-0.134	-1.000

Alignment O

Point no	Easting	Northing
O1	286132.636	5822322.608
O2	286129.408	5822322.985
O3	286128.992	5822322.656
O4	286129.321	5822322.240
O5	286132.549	5822321.863
O6	286132.965	5822322.192

Curve no	I	Radius	Arc	A	B	X	Y	I
O2 - O3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
O3 - O4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
O5 - O6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
O6 - O1	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147

Alignment S

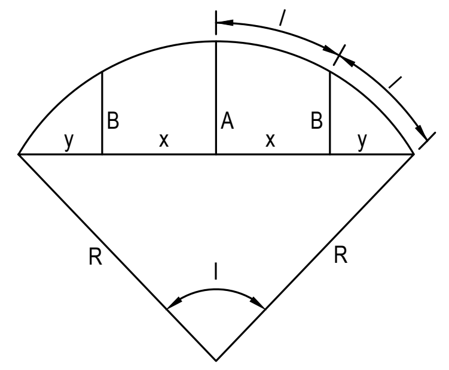
Point no	Easting	Northing
S1	286120.545	5822240.450
S2	286120.863	5822243.684
S3	286120.527	5822244.094
S4	286120.117	5822243.757
S5	286119.799	5822240.523
S6	286120.135	5822240.113

Curve no	I	Radius	Arc	A	B	X	Y	I
S2 - S3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
S3 - S4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
S5 - S6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
S6 - S1	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147

Alignment T

Point no	Easting	Northing
T1	286137.281	5822254.612
T2	286134.053	5822254.989
T3	286133.637	5822254.660
T4	286133.966	5822254.244
T5	286137.194	5822253.867
T6	286137.610	5822254.196

Curve no	I	Radius	Arc	A	B	X	Y	I
T2 - T3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
T3 - T4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
T5 - T6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
T6 - T1	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147



LIP PROFILE SETOUT

NOTES
1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSING TO BE MINIMUM 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. TRANSITION KERBS THROUGH PRAM CROSSINGS / PITS.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH

SUBJECT TO APPROVAL

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Environmental Management · ISO14001 — Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 2 4 8
Scale 1:200
LAYOUT SCALE

0 2 4 8
0 0.2 0.4 0.8
Scale H1:200, V1:20
LIP PROFILE SCALE

SCALE AS SHOWN AT A1

N

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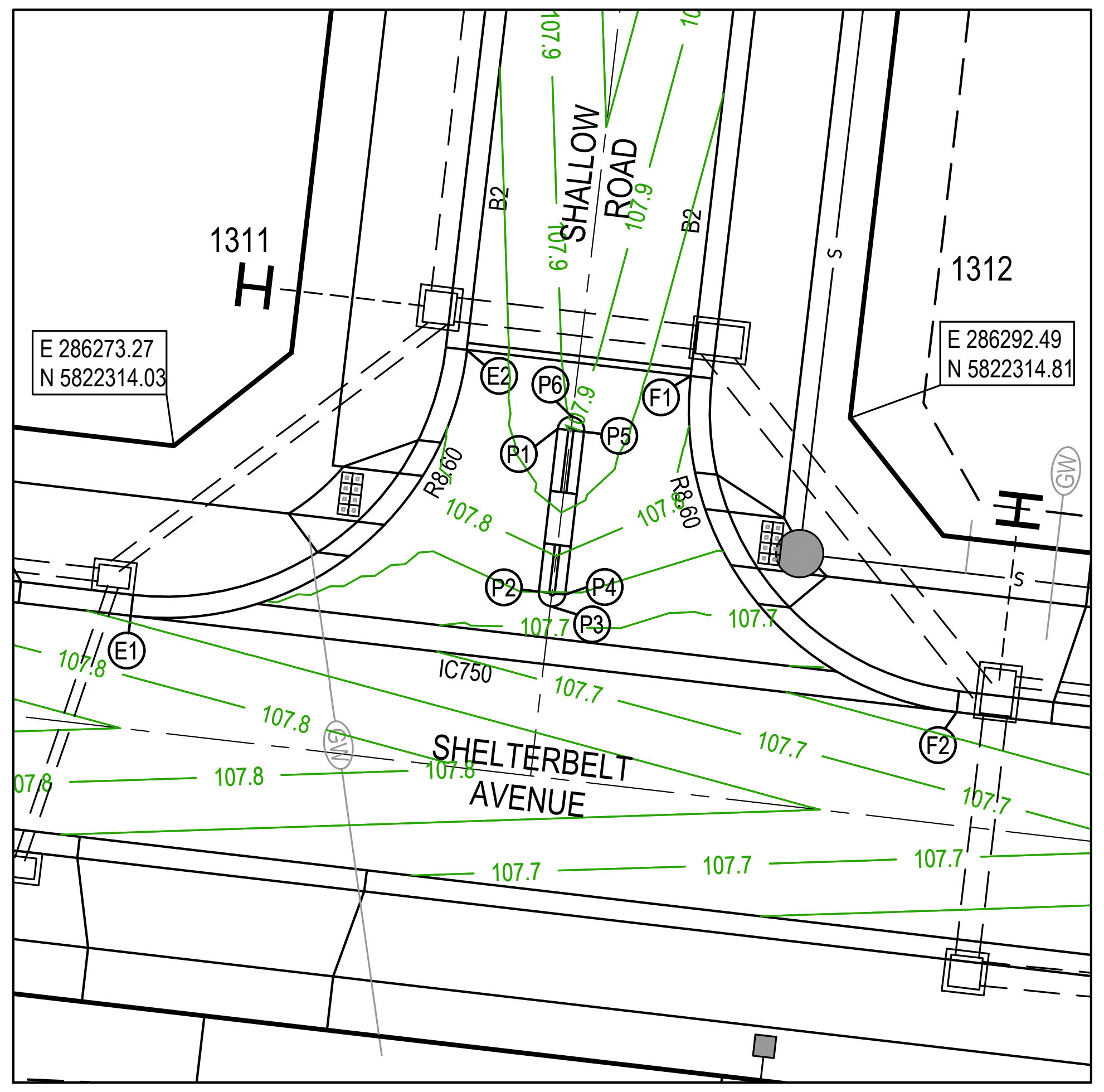
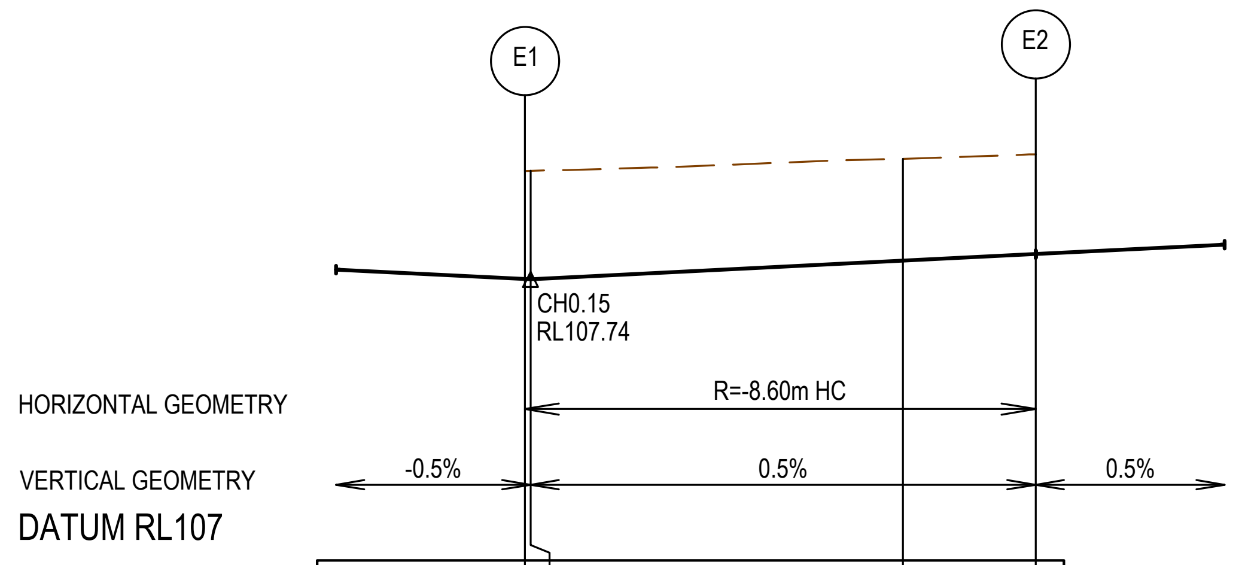
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Intersection Detail Plan - 1

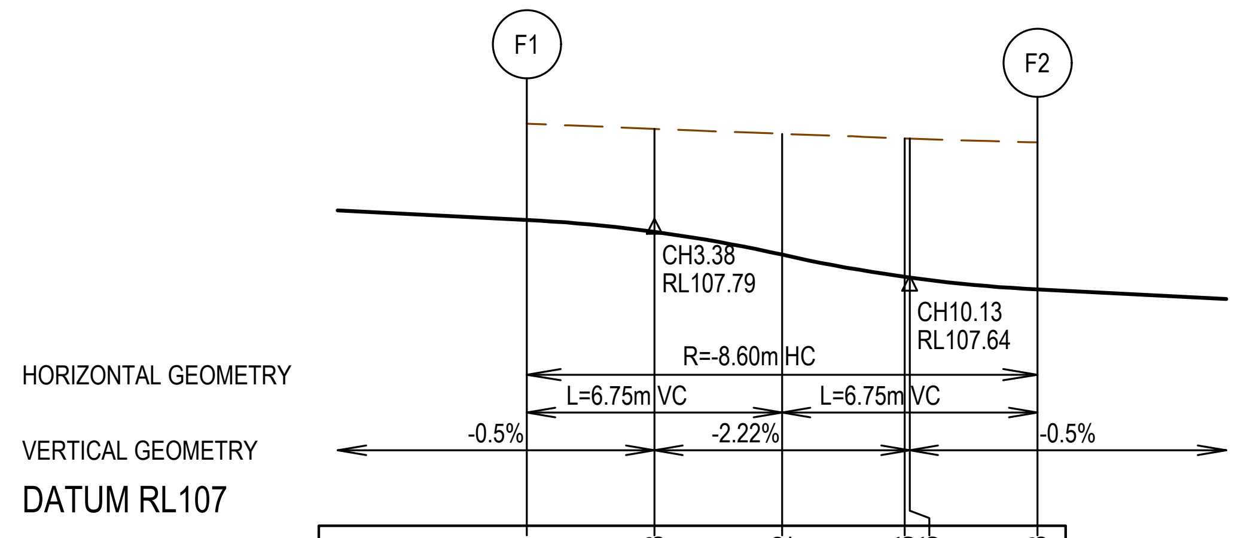
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-04	04 of 22	A





DESIGN LEVEL	107.74	107.74	107.79	107.81
EXISTING SURFACE	108.03	108.03	108.06	108.07
NORTHING	5822309.19	5822309.18		5822316.74
EASTING	286272.05	286272.20		286281.59
CHAINAGE	0.00	0.15	10.00	13.51

LIP LINE E



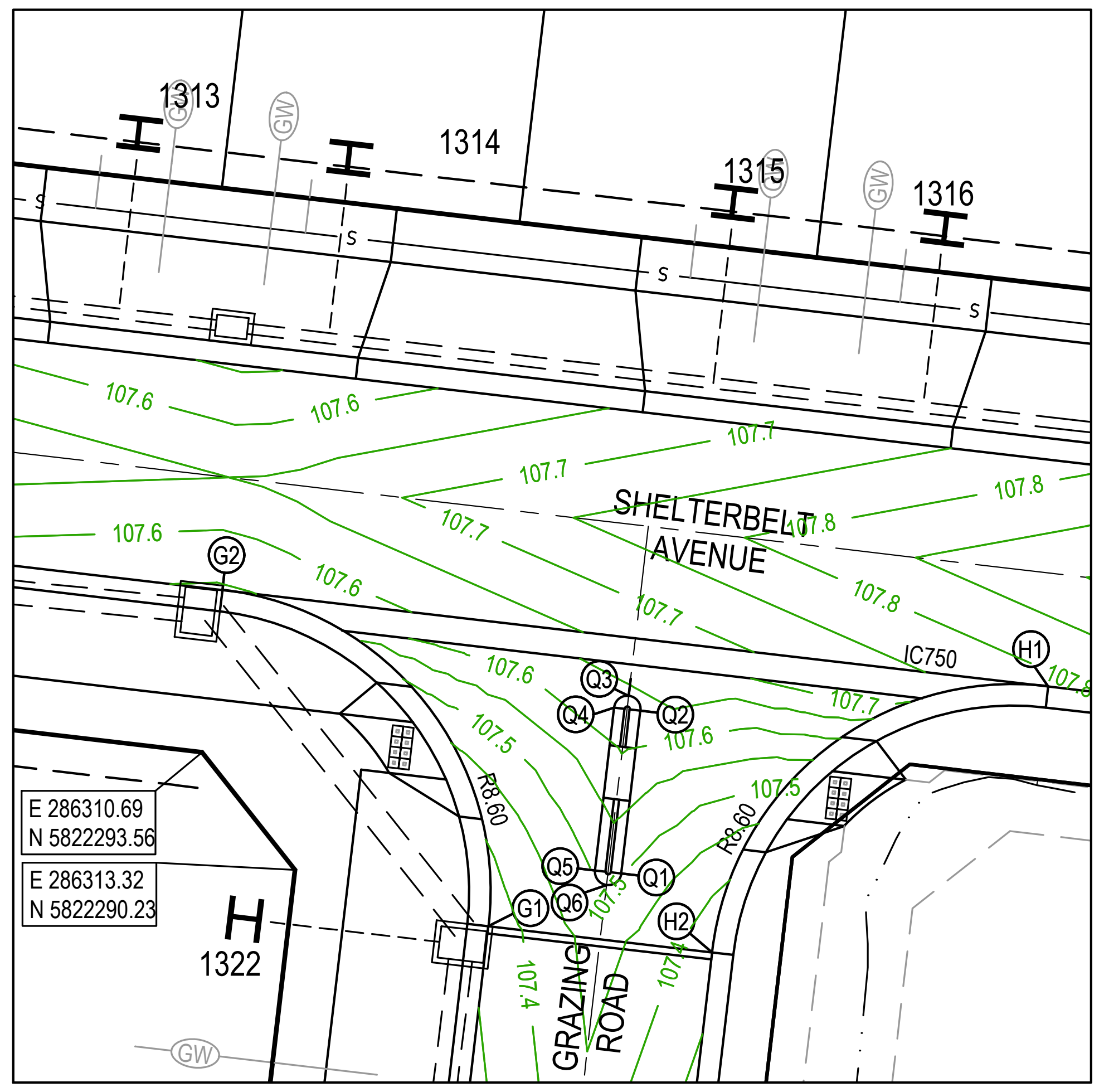
DESIGN LEVEL	107.81	107.78	107.72	107.66	107.66	107.63
EXISTING SURFACE	108.06	108.05	108.04	108.03	108.03	108.02
NORTHING	5822316.00	5822312.65	5822309.66	5822307.55	5822307.49	5822306.46
EASTING	286287.95	286288.22	286289.75	286292.19	286292.30	286295.49
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51

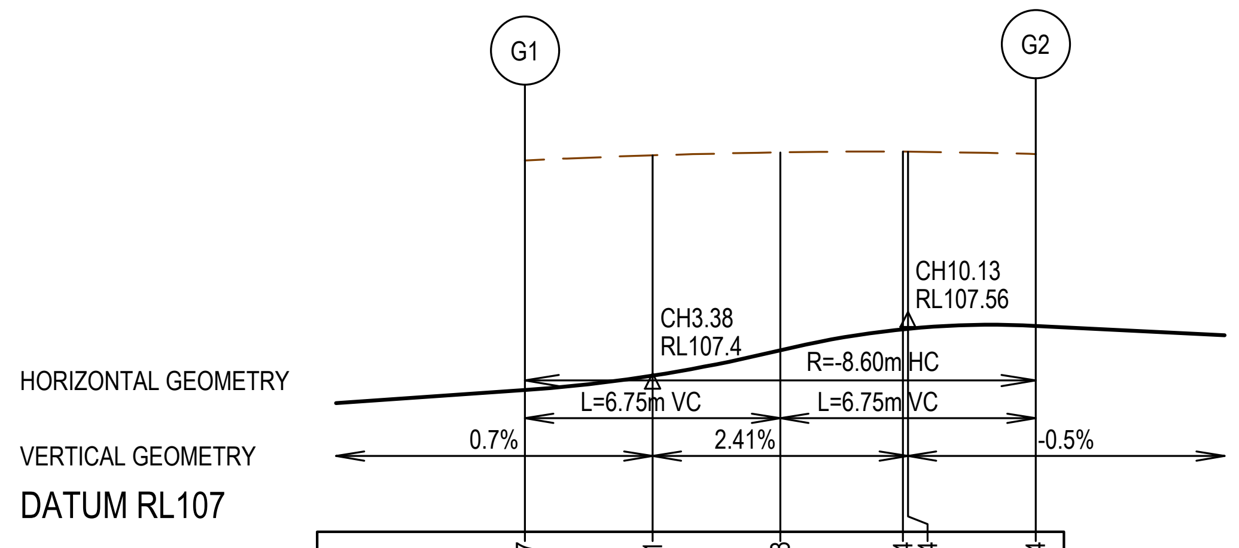
LIP LINE F

LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

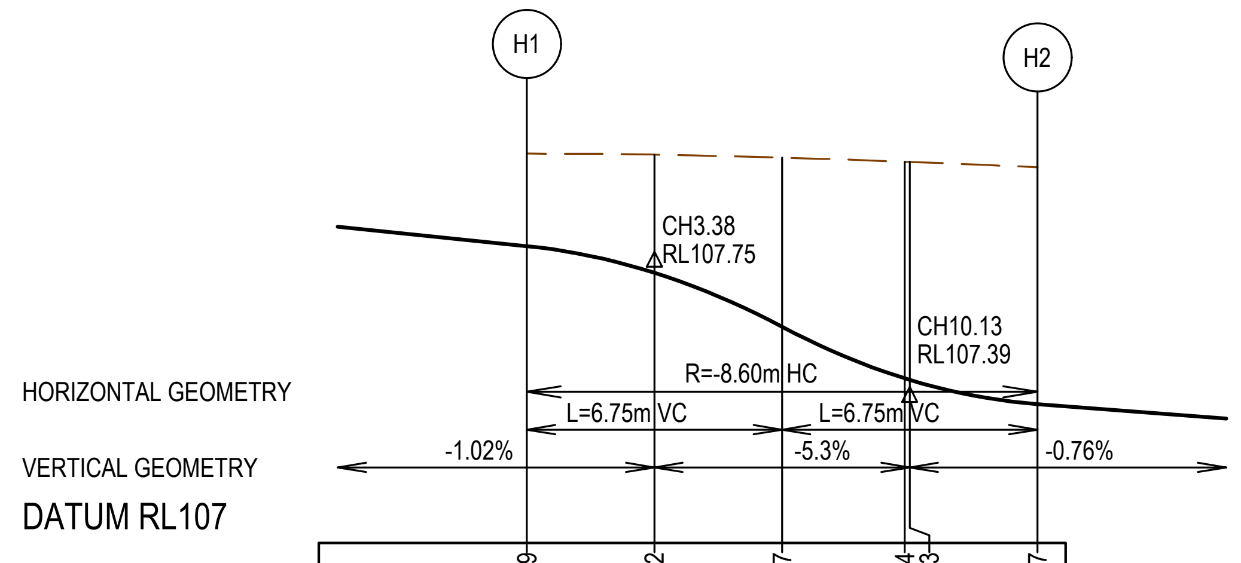
□= = =●=	STORMWATER DRAIN, PIT & PROPERTY INLET
□= = = =	MAIN DRAIN
●—S—┬—■	SEWER & MAINTENANCE STRUCTURES
— — — — —H	HOUSE DRAIN
—GWR—	SERVICE CONDUITS
▦ ▤	TACTILE PAVERS
□= = =●=	EXISTING STORMWATER DRAIN
□= = = =	EXISTING MAIN DRAIN
○—Ex S—	EXISTING SEWER & MAINTENANCE STRUCTURES
—GWR—	EXISTING SERVICE CONDUITS
▦ ▤	EXISTING TACTILE PAVERS
□—Fut D—●—	FUTURE STORMWATER DRAIN
□—	FUTURE MAIN DRAIN
○—FUT S—	FUTURE SEWER & MAINTENANCE STRUCTURES
— — — — —H	FUTURE HOUSE DRAIN
—GWR—	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





DESIGN LEVEL	107.37	107.41	107.48	107.54	107.54	107.54
EXISTING SURFACE	107.98	108.00	108.00	108.01	108.01	108.00
NORTHING	5822288.63	5822291.98	5822294.97	5822297.08	5822297.14	5822298.17
EASTING	286318.82	286318.55	286317.03	286314.58	286314.47	286311.28
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51

LIP LINE G



DESIGN LEVEL	107.79	107.72	107.57	107.44	107.43	107.37
EXISTING SURFACE	108.03	108.03	108.02	108.01	108.01	108.00
NORTHING	5822295.44	5822295.17	5822293.64	5822291.20	5822291.09	5822287.89
EASTING	286334.72	286331.37	286328.39	286326.28	286326.21	286325.18
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51

LIP LINE H

Alignment P

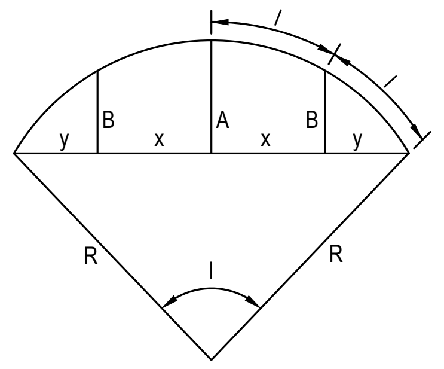
Point no	Easting	Northing
P1	286284.174	5822314.497
P2	286283.635	5822309.878
P3	286283.964	5822309.463
P4	286284.380	5822309.792
P5	286284.919	5822314.410
P6	286284.590	5822314.826

Curve no	I	Radius	Arc	A	B	X	Y	I
P2 - P3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
P3 - P4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
P5 - P6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
P6 - P1	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147

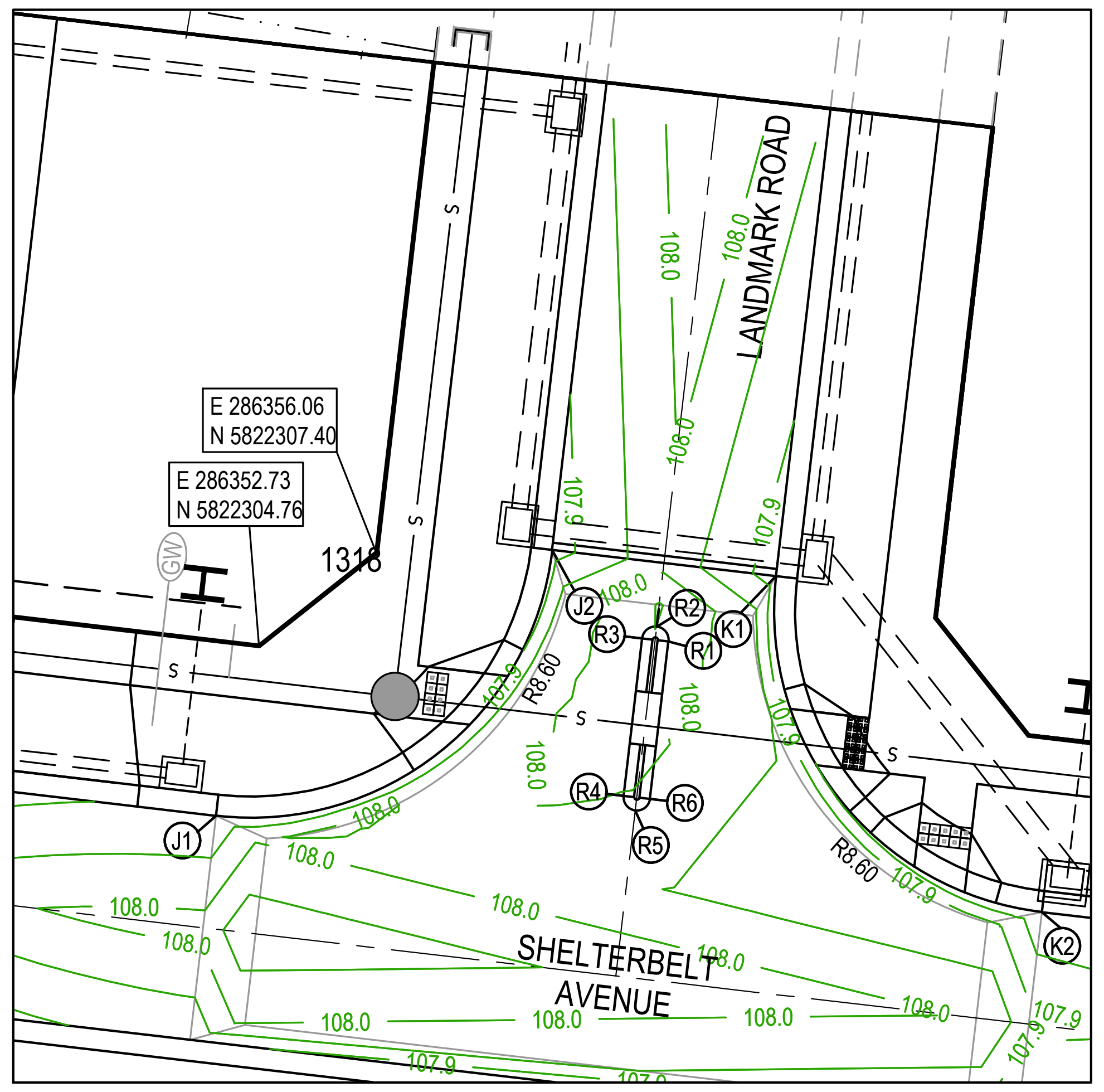
Alignment Q

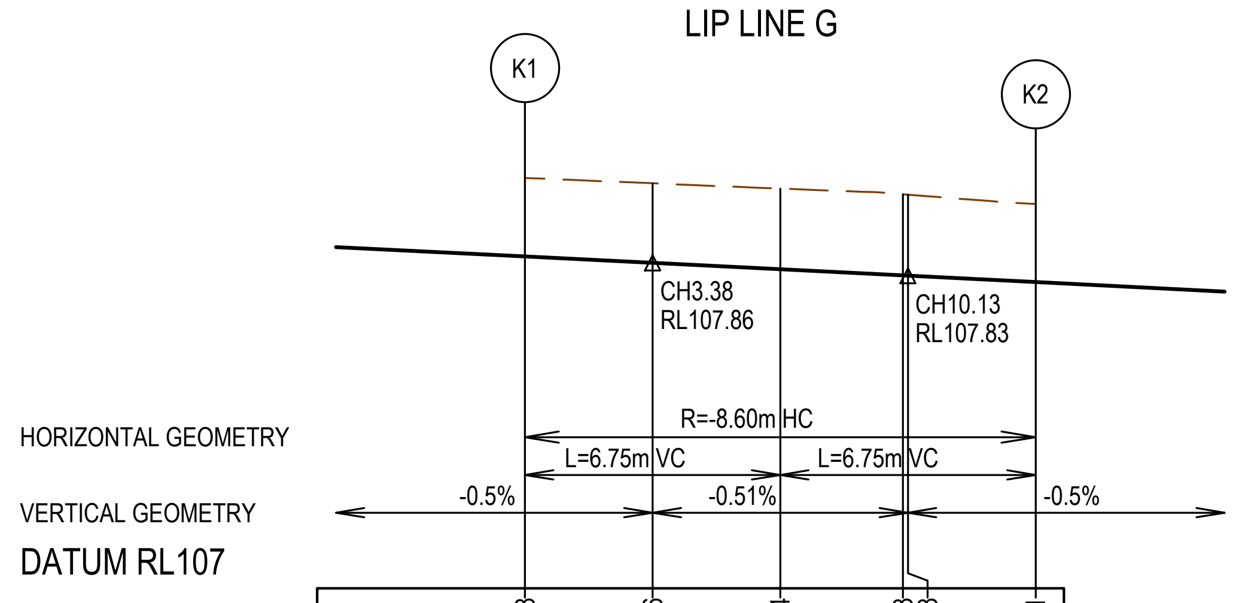
Point no	Easting	Northing
Q1	286322.596	5822290.133
Q2	286323.135	5822294.751
Q3	286322.806	5822295.167
Q4	286322.390	5822294.838
Q5	286321.851	5822290.219
Q6	286322.180	5822289.804

Curve no	I	Radius	Arc	A	B	X	Y	I
Q2 - Q3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
Q3 - Q4	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
Q5 - Q6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
Q6 - Q1	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147



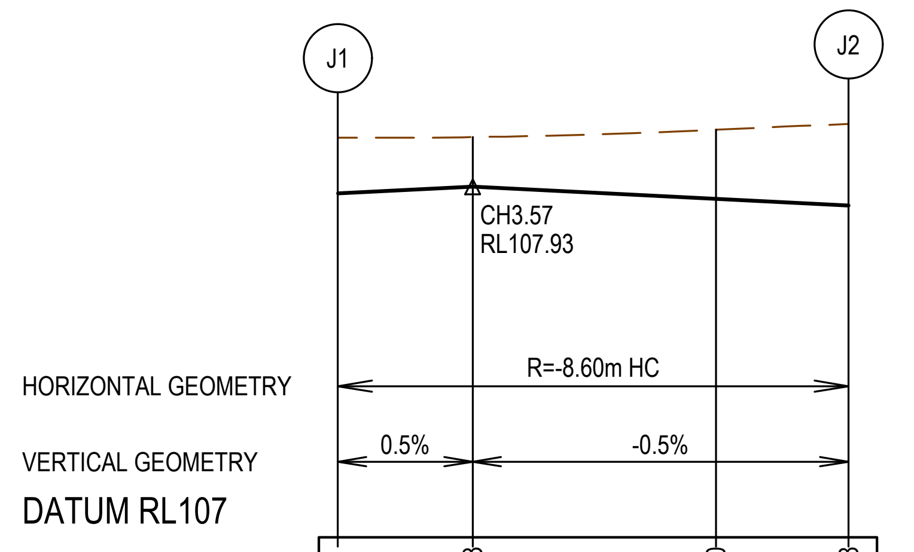
LIP PROFILE SETOUT





DESIGN LEVEL	107.88	107.86	107.84	107.83	107.83	107.81
EXISTING SURFACE	108.09	108.07	108.06	108.04	108.04	108.02
NORTHING	5822306.73	5822303.38	5822300.40	5822298.29	5822298.22	5822297.19
EASTING	286367.41	286367.68	286369.21	286371.65	286371.76	286374.96
CHAINAGE	0.00	3.38	6.75	10.00	10.13	13.51

LIP LINE K



DESIGN LEVEL		107.93	107.90	107.88
EXISTING SURFACE	108.06	108.06	108.08	108.09
NORTHING	5822299.92	5822300.25	5822304.16	5822307.47
EASTING	286351.51	286355.04	286359.96	286361.05
CHAINAGE	0.00	3.57	10.00	13.51

LIP LINE J

Alignment R

Point no	Easting	Northing
R1	286364.348	5822304.869
R2	286364.019	5822305.285
R3	286363.604	5822304.956
R4	286363.082	5822300.486
R5	286363.411	5822300.071
R6	286363.827	5822300.400

Curve no	I	Radius	Arc	A	B	X	Y	I
R1 - R2	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
R2 - R3	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
R4 - R5	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147
R5 - R6	90.000	0.375	0.589	0.110	0.081	0.144	0.122	0.147

NOTES

1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
2. ALL PRAM CROSSING TO BE MINIMUM 2.0m FROM VEHICLE CROSSINGS.
3. VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
4. INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
5. TRANSITION KERBS THROUGH PRAM CROSSINGS / PITS.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH

SUBJECT TO APPROVAL

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.

Quality Management · ISO 9001 Global-Mark.com.au®
OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 2 4 8
Scale 1:200
LAYOUT SCALE

0 2 4 8
0 0.2 0.4 0.8
Scale H1:200, V1:20
LIP PROFILE SCALE

SCALE AS SHOWN AT A1

N

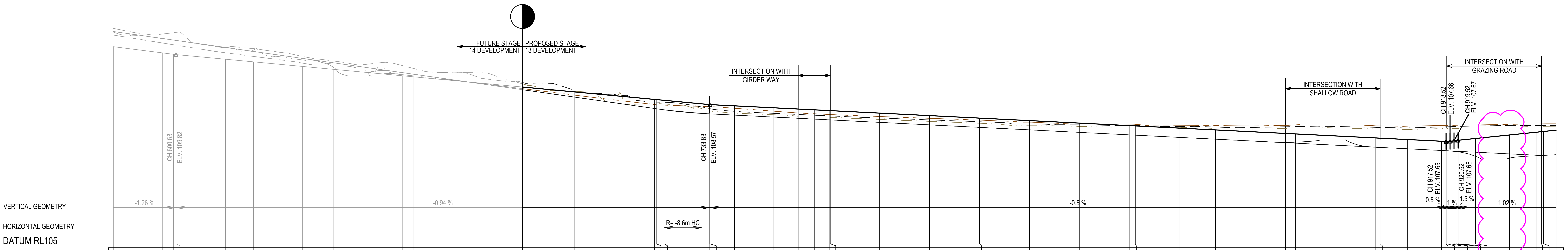
SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-05	05 of 22	A

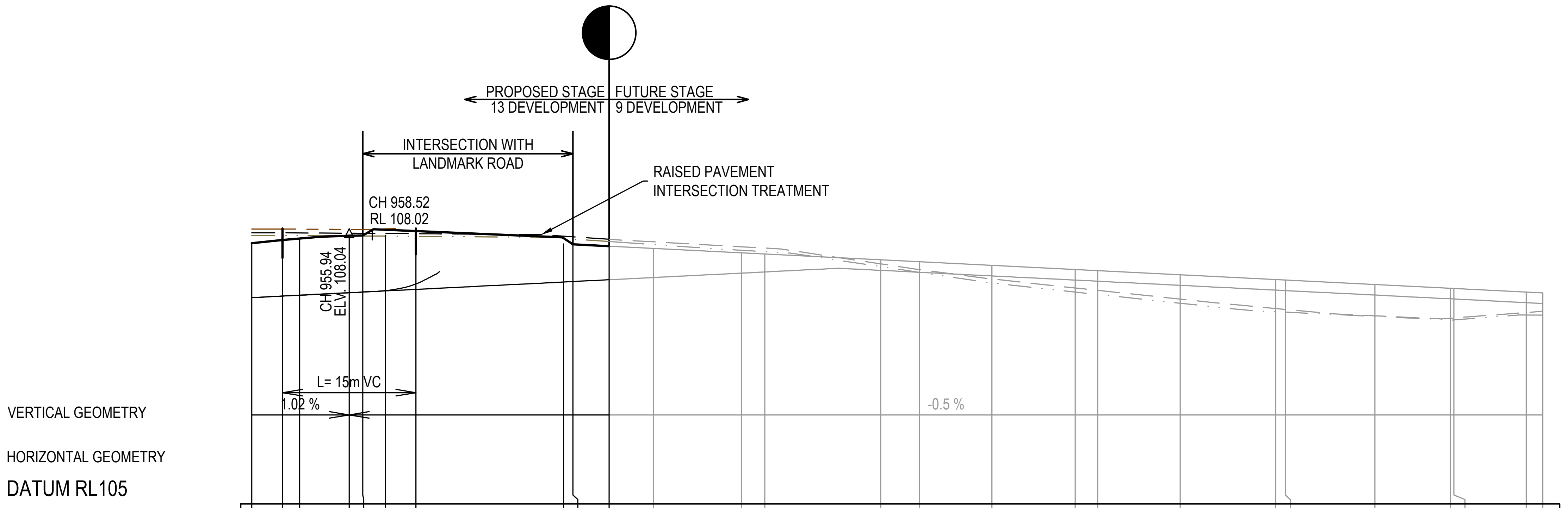
DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-05.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:05:17 PM



DATUM RL105

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	
585.00	110.01	110.39	110.38	110.39	110.30	110.47	
597.22	109.86	110.22	110.22	110.22	110.11	110.33	
600.00	109.82	110.18	110.18	110.18	110.06	110.36	
600.63	109.82	110.17	110.17	110.17	110.05	110.37	
612.95	109.70	109.99	110.00	109.99	109.86	109.98	
620.00	109.63	109.89	109.93	109.89	109.77	109.96	
632.25	109.52	109.72	109.68	109.72	109.60	109.77	
640.00	109.45	109.61	109.57	109.61		109.66	
657.10	109.29	109.37	109.35	109.37	109.32	109.54	
660.00	109.26	109.32	109.36	109.32	109.28	109.47	
680.00	109.07	109.04	109.30	109.04	109.05	109.18	
687.10	109.01	108.94	109.09	108.94	108.97	109.12	
700.00	108.89	108.76	108.90	108.76	108.81	108.93	
720.00	108.70	108.47	108.59	108.47	108.57	108.63	
720.47	108.69	108.47	108.59	108.47	108.56	108.63	TP
722.42	108.68	108.44	108.59	108.44	108.54	108.63	
731.86	108.59	108.35	108.46	108.35	108.56	108.51	
733.82	108.57	108.34	108.45	108.34	108.53	108.47	TP
733.83	108.57	108.34	108.45	108.34	108.53	108.47	
740.00	108.54	108.31	108.36	108.31	108.48	108.40	
749.62	108.49	108.26	108.32	108.26	108.41	108.35	
755.87	108.46	108.23		108.23	108.36	108.32	
760.00	108.44	108.21		108.21	108.34	108.30	
763.62	108.42	108.19		108.19	108.32	108.29	
763.87	108.42	108.19	108.24	108.19	108.32	108.29	
776.12	108.36	108.13	108.20	108.13	108.27	108.23	
780.00	108.34	108.11	108.18	108.11	108.26	108.22	
788.62	108.29	108.06	108.15	108.06	108.23	108.19	
800.00	108.24	108.01	108.11	108.01	108.19	108.15	
801.12	108.23	108.00	108.10	108.00	108.18	108.14	
813.62	108.17	107.94	108.04	107.94	108.13	108.09	
820.00	108.14	107.91	108.04	107.91	108.10	108.07	
826.12	108.11	107.88	108.02	107.88	108.09	108.06	
838.62	108.04	107.81	108.01	107.81	108.08	108.04	
840.00	108.04	107.81	108.01	107.81	108.08	108.04	
851.12	107.98	107.75	108.00	107.75	108.04	108.02	
860.00	107.94	107.71	107.97	107.71	108.04	108.01	
865.12	107.91	107.68	107.96	107.68	108.04	107.99	
877.47	107.85	107.62	107.97	107.62	108.05	108.02	LTP
880.00	107.84	107.61	107.98	107.61	108.06	108.02	
900.00	107.74	107.51	107.96	107.51	108.04	108.00	
901.07	107.73	107.50	107.96	107.50	108.04	108.00	LTP
907.87	107.70	107.47	107.95	107.47	108.03	107.99	
916.37	107.66	107.42	107.97	107.42	108.05	108.01	
917.52	107.65	107.42	107.97	107.42	108.05	108.02	
917.71	107.65	107.42	107.97	107.42	108.05	108.02	RTP
918.52	107.66	107.41	107.97	107.41	108.05	108.02	
919.52	107.67	107.41	107.97	107.41	108.05	108.02	
920.00	107.67	107.41	107.97	107.41	108.05	108.02	
920.52	107.68	107.40	107.97	107.40	108.05	108.02	
924.87	107.72	107.38		107.38	108.06	108.03	
933.37	107.81	107.34		107.34	108.08	108.05	
940.00	107.88	107.31	108.02	107.31	108.09	108.05	
941.31	107.89	107.30	108.02	107.30	108.09	108.05	RTP
941.87	107.90	107.30	108.02	107.30	108.09	108.05	
945.00	107.93	107.32	108.02	107.32	108.09	108.05	

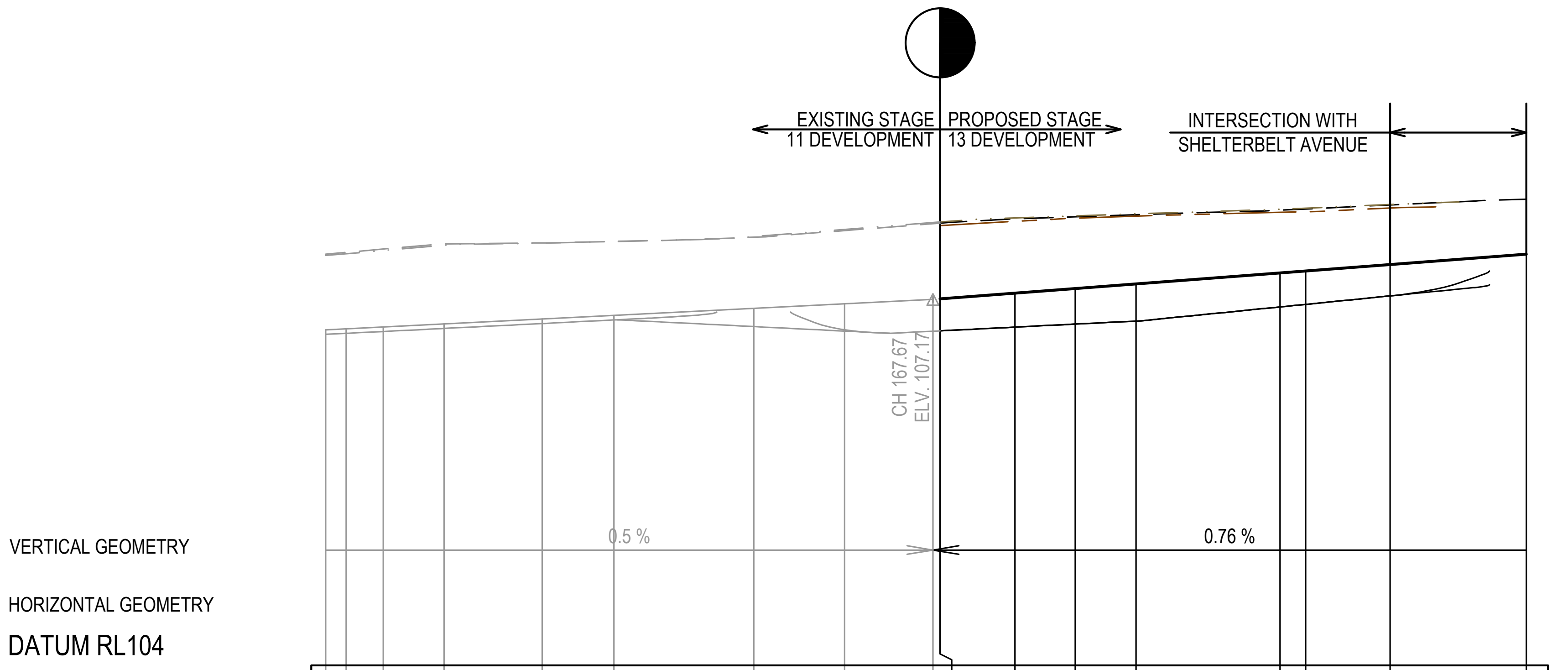
SHELTERBELT AVENUE LONGITUDINAL SECTION



DATUM RL105

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	
945.00	107.93	107.32	108.02	107.32	108.09	108.05	
948.44	107.97	107.34	108.02	107.34	108.09	108.05	
950.37	107.98	107.35	108.02	107.35	108.09	108.05	
955.94	108.01	107.37	108.01	107.37	108.08	108.04	
957.47	108.02	107.38	108.01	107.38	108.08	108.04	LTP
960.00	108.12	107.39	108.01	107.40	108.09	108.04	
963.44	108.10	107.41	108.01	107.47		108.04	
980.00	108.02	107.49	107.98	107.50	108.05	108.01	
981.07	107.92	107.50	107.98	107.50	108.04	108.00	LTP
985.12	107.90	107.52	107.95	107.52	108.02	107.97	
990.12	107.87	107.54	107.91	107.54	108.00	107.94	
1000.00	107.82	107.59	107.85	107.59	107.94	107.89	
1002.62	107.81	107.61	107.84	107.61	107.93	107.87	
1015.62	107.74	107.62	107.67	107.62	107.75	107.70	
1020.00	107.72	107.60	107.60	107.60	107.69	107.63	
1028.12	107.68	107.56	107.48	107.56	107.59	107.53	
1037.47	107.63	107.52	107.38	107.52	107.49	107.43	
1040.00	107.62	107.50	107.35	107.50	107.47	107.40	
1049.27	107.58	107.46	107.26	107.46		107.30	
1060.00	107.52	107.40	107.16	107.40	107.25	107.20	
1061.07	107.52	107.40	107.15	107.40	107.24	107.19	
1071.12	107.47	107.35	107.11	107.35	107.15	107.11	
1079.62	107.42	107.30	107.07	107.30	107.11	107.09	
1080.00	107.42	107.30	107.07	107.30	107.11	107.09	
1088.12	107.38	107.26	107.12	107.26	107.17	107.15	
1090.00	107.37	107.25	107.12	107.25	107.18	107.17	

SHELTERBELT AVENUE LONGITUDINAL SECTION



DATUM RL104

CHAINAGE	DESIGN CENTRELINE	RIGHT LIP OF KERB	EXISTING SURFACE AT RIGHT BOUNDARY	LEFT LIP OF KERB	EXISTING SURFACE AT LEFT BOUNDARY	EXISTING SURFACE	
115.00	106.91	106.87	107.55	106.87	107.59	107.57	
116.78	106.92	106.88	107.57	106.88	107.60	107.58	
120.00	106.93	106.89	107.60	106.89	107.63	107.61	
125.28	106.96	106.92	107.64	106.92	107.66	107.65	
133.78	107.00	106.96	107.66	106.96	107.67	107.66	
140.00	107.03	106.99	107.68	106.99	107.68	107.68	
152.13	107.10	106.94	107.72	106.94		107.71	
160.00	107.13	106.90	107.78	106.90		107.77	
167.67	107.17	106.90	107.84	106.90	107.81	107.83	
168.28	107.18	106.90	107.84	106.90	107.81	107.83	
174.78	107.23	106.93	107.88	106.93	107.85	107.87	
180.00	107.27	106.96	107.90	106.96	107.88	107.89	
185.28	107.31	106.99	107.91	106.99	107.89	107.91	
197.78	107.40	107.11	107.95	107.11	107.93	107.95	
200.00	107.42	107.13	107.96	107.13	107.93	107.96	
207.32	107.47	107.20	107.99	107.20	107.96	107.99	TP
219.13	107.56					108.04	

GRAZING ROAD LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	CHAINAGES ADDED TO THE LONG SECTION	AM	LV

SUBJECT TO APPROVAL

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

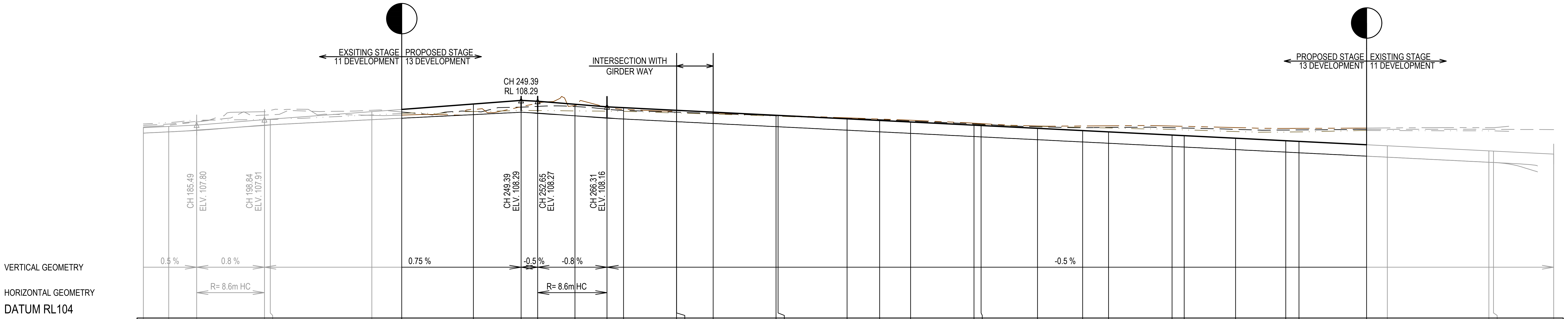
N

SMEC
Member of the Surbana Jurong Group
Ⓒ ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-06	06 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-06.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:05:43 PM

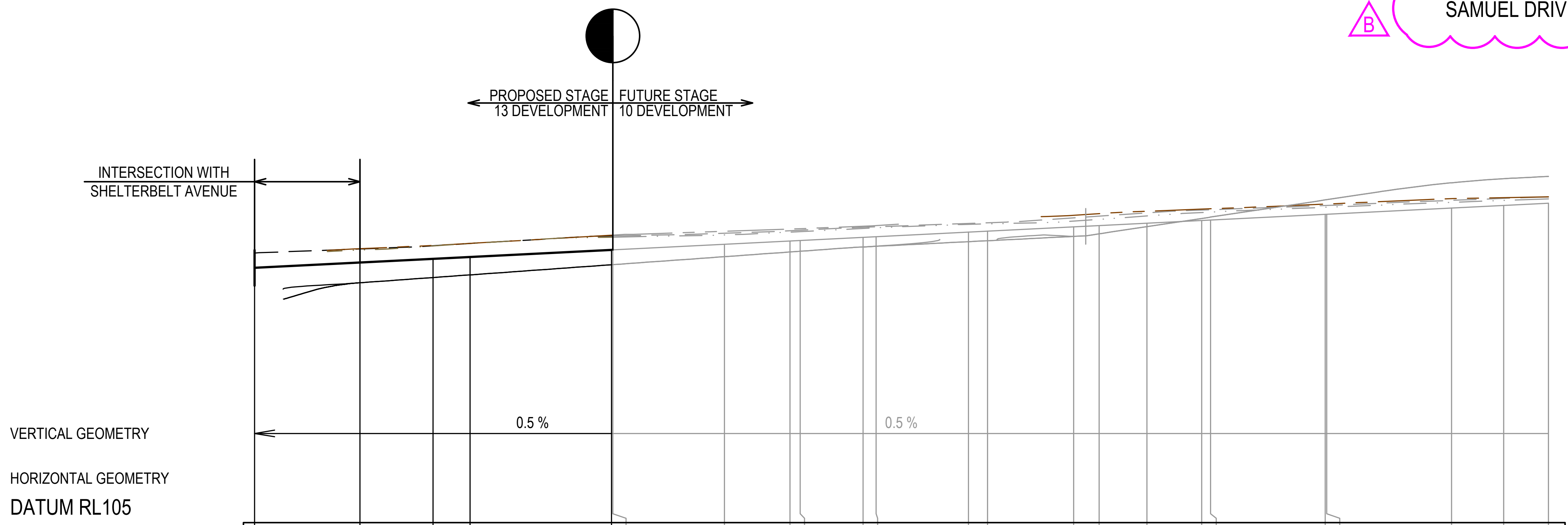


DATUM RL104

DESIGN CENTRELINE	107.75	107.77	107.80	107.91 107.92	108.07	108.11	108.22	108.29	108.27	108.21	108.16	108.15	108.09 108.09	108.06	108.00 107.99	107.93	107.89	107.86	107.80 107.79	107.74	107.69	107.67	107.61	107.59	107.54	107.49	107.48	107.41	107.39	107.29 107.29	107.23
RIGHT LIP OF KERB	107.64	107.67	107.70	107.79 107.80	107.91	107.94	108.01	108.05	108.03	107.98	107.95	107.92	107.87 107.87	107.83	107.77 107.77	107.70	107.67	107.64	107.58 107.57	107.51	107.47	107.44	107.38	107.37	107.32	107.27	107.26	107.19	107.17	107.07 107.06	
EXISTING SURFACE AT RIGHT BOUNDARY	107.82	107.85		107.88 107.90	108.00	108.03	108.07	108.09	108.08	108.08		108.07	108.04 108.04	108.02	107.98 107.98	107.92	107.89	107.87	107.81 107.80	107.78	107.76	107.75	107.71	107.71	107.68	107.66	107.67	107.69	107.69	107.69 107.69	
LEFT LIP OF KERB	107.64	107.67	107.70	107.80 107.81	107.91	107.94	108.01	108.05	108.04	107.98	107.94	107.92	107.87 107.87	107.83	107.77 107.77	107.70	107.67	107.64	107.58 107.57	107.51	107.47	107.44	107.38	107.37	107.32	107.27	107.26	107.19	107.17	107.07 107.06	
EXISTING SURFACE AT LEFT BOUNDARY	107.77	107.80	107.85	108.07 108.09	107.99	108.00	108.12	108.16	108.23	108.19	108.14	108.11		108.04	108.00 107.99	107.94	107.92	107.90	107.84 107.83	107.78	107.78	107.79	107.78	107.78	107.75	107.74	107.74	107.74	107.75	107.75 107.75	
EXISTING SURFACE	107.79	107.82	107.87	108.00 108.00	108.09	108.06	108.07	108.15	108.17	108.17	108.11	108.09	108.06 108.06	108.03	107.99 107.98	107.94	107.91	107.88	107.83 107.82	107.77	107.75	107.75	107.75	107.74	107.72	107.70	107.71	107.72	107.72	107.72 107.72	107.71
CHAINAGE	175.00	180.00	185.49	198.84 200.00	220.00	225.89	240.00	249.39	252.65	260.00	266.31	269.57	280.00 280.03	287.23	299.61 300.00	313.61	320.00	326.11	338.61 340.00	351.11	360.00	365.11	377.61	380.00	390.11	400.00	402.61	415.93	420.00	440.00 440.93	452.78
								RTP				RTP																			

B

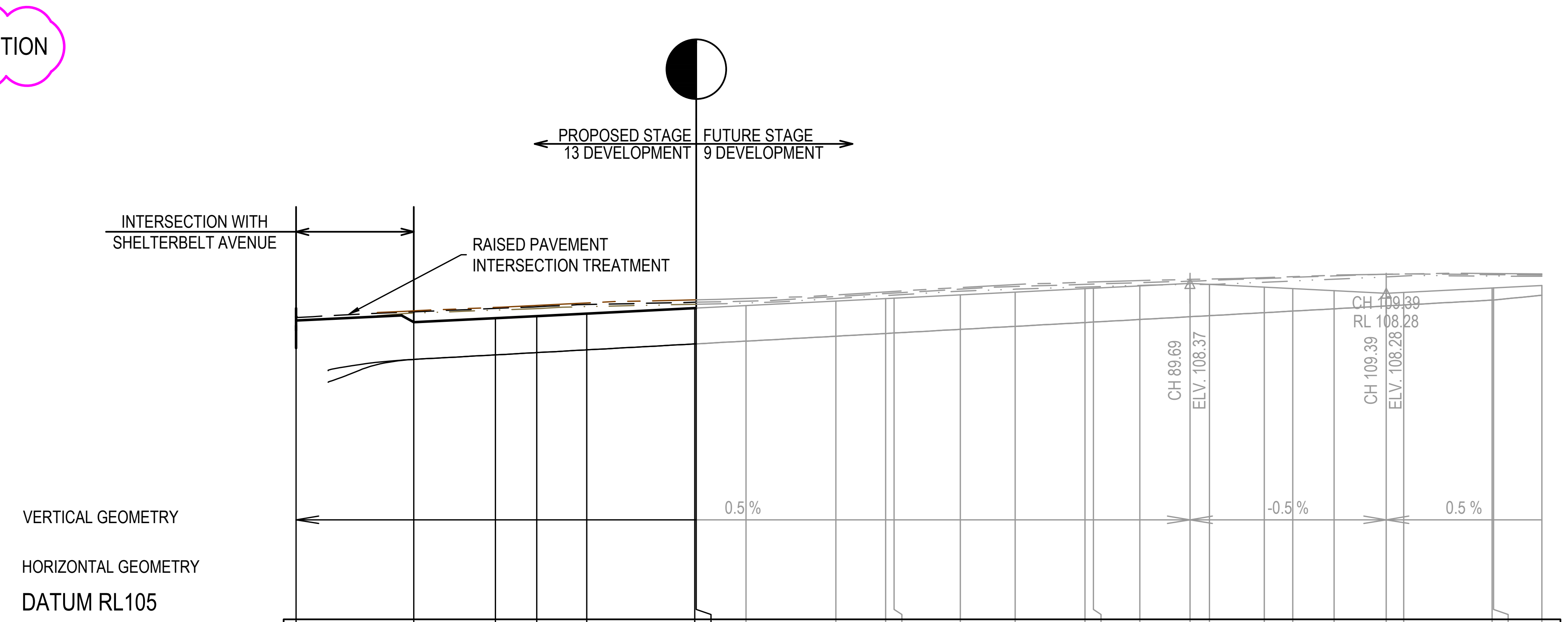
SAMUEL DRIVE LONGITUDINAL SECTION



DATUM RL105

DESIGN CENTRELINE	107.86	107.92	107.96	107.98	108.06 108.06	108.12	108.16 108.16	108.20 108.21	108.26 108.27	108.32	108.33	108.36	108.39 108.39	108.46 108.46	108.53	108.56	108.58
RIGHT LIP OF KERB		107.69	107.75	107.78	107.89 107.89	107.98	108.04 108.04	108.09 108.10	108.15 108.16	108.21	108.24	108.32	108.41 108.43	108.62 108.62	108.81	108.86	108.88
EXISTING SURFACE AT RIGHT BOUNDARY		108.06	108.10	108.13	108.20 108.20	108.23	108.26 108.26	108.30 108.31	108.35 108.35	108.38	108.40	108.44	108.48 108.48	108.54 108.54	108.59	108.61	108.63
LEFT LIP OF KERB		107.69	107.75	107.78	107.89 107.89	107.98	108.04 108.04	108.09 108.10	108.15 108.16	108.21	108.24	108.32	108.41 108.43	108.62 108.62	108.81	108.86	108.88
EXISTING SURFACE AT LEFT BOUNDARY		108.07	108.11	108.13	108.22 108.22	108.27	108.29 108.30	108.32 108.33		108.45	108.46	108.49	108.52 108.52	108.57 108.57	108.63	108.64	108.65
EXISTING SURFACE	108.02	108.07	108.10	108.13	108.21 108.22	108.25	108.27 108.28	108.31 108.32	108.36 108.36	108.42	108.44	108.47	108.51 108.51	108.56 108.56	108.61	108.64	108.65
CHAINAGE	0.00	11.80	20.00	24.15	40.00 40.15	52.65	60.00 61.15	68.20 69.65	80.00 82.15	91.80	94.65	100.00	106.15 107.15	120.00 120.15	134.15	140.00	145.00
		TP															

SHALLOW ROAD LONGITUDINAL SECTION



DATUM RL105

DESIGN CENTRELINE	108.03	107.98	108.03	108.05	108.07	108.13 108.13	108.15	108.20	108.22 108.23	108.26	108.29	108.32 108.33	108.35	108.37 108.36	108.34	108.32	108.30	108.28 108.28	108.33 108.33	108.35
RIGHT LIP OF KERB		107.61	107.66	107.68	107.71	107.77 107.77	107.79	107.84	107.87 107.88	107.91	107.94	107.98 107.99	108.01	108.04 108.05	108.08	108.10	108.12	108.15 108.16	108.21 108.21	108.26
EXISTING SURFACE AT RIGHT BOUNDARY		108.08	108.11	108.12	108.14	108.17 108.17	108.18	108.22	108.25 108.26	108.30	108.32	108.34 108.34	108.35	108.36 108.37	108.39	108.40	108.42	108.44 108.45	108.45 108.45	108.45
LEFT LIP OF KERB		107.61	107.66	107.68	107.71	107.77 107.77	107.79	107.84	107.87 107.88	107.91	107.94	107.98 107.99	108.01	108.04 108.05	108.08	108.10	108.12	108.15 108.16	108.21 108.21	108.26
EXISTING SURFACE AT LEFT BOUNDARY		108.10	108.13	108.15	108.18	108.21 108.21	108.22	108.26	108.29 108.29	108.33	108.36	108.39 108.39	108.40	108.41 108.42	108.43	108.44	108.46	108.47 108.47	108.47 108.47	108.47
EXISTING SURFACE	108.03	108.09	108.12	108.14	108.16	108.19 108.19	108.20	108.24	108.27 108.28	108.32	108.34	108.36 108.37	108.38	108.40 108.40	108.42	108.43	108.45	108.47 108.47	108.46 108.46	108.46
CHAINAGE	0.00	11.80	20.00	24.15	29.15	40.00 40.15	45.15	54.15	59.15 60.00	66.65	72.15	79.15 80.00	84.65	89.69 91.65	97.15	100.00	104.15	109.39 111.15	120.00 120.15	125.00
		TP																		

LANDMARK ROAD LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	ROAD NAME CHANGED	AM	LV

SUBJECT TO APPROVAL

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.

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Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

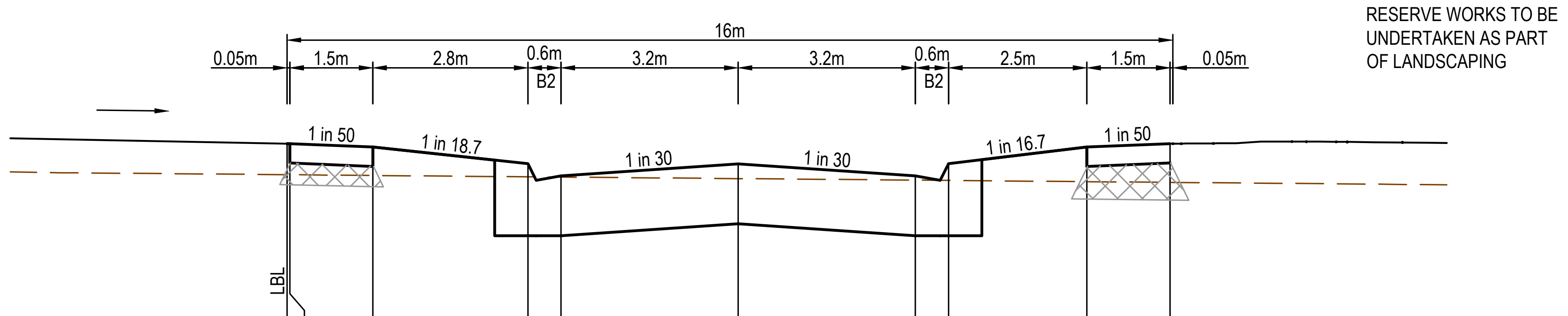
SMEC
Member of the Surbana Jurong Group
ⓒ ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-07	07 of 22	B

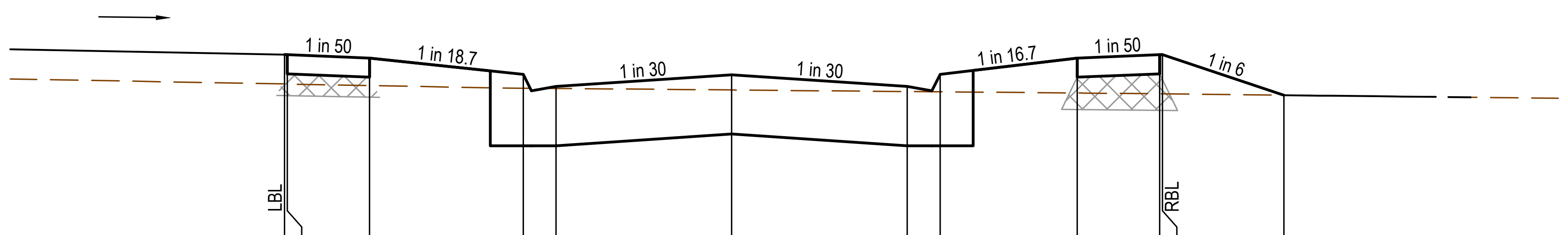
DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-07.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:06:06 PM

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



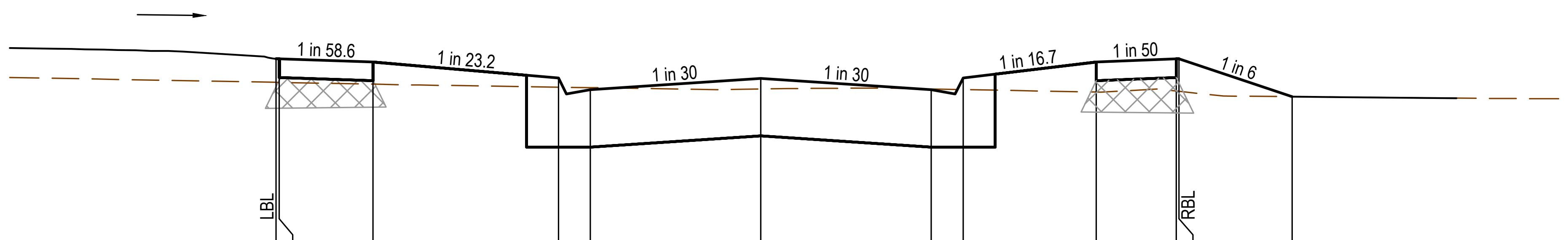
DATUM107.0										
DESIGN SURFACE	108.60	108.60	108.57	108.42	108.31	108.42	108.31	108.42	108.57	108.60
EXISTING SURFACE	108.32	108.32	108.32	108.30	108.30	108.29	108.27	108.27	108.26	108.25
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 763.62



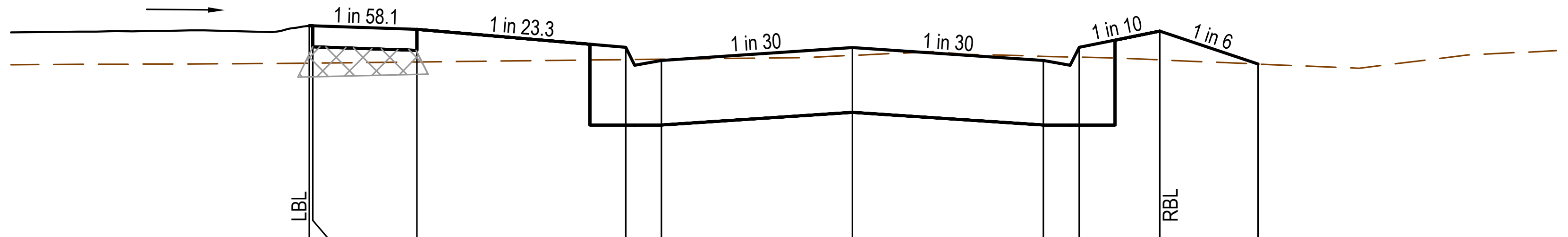
DATUM107.0												
DESIGN SURFACE	108.67	108.67	108.64	108.49	108.38	108.49	108.38	108.49	108.64	108.67	108.67	108.30
EXISTING SURFACE	108.41	108.41	108.39	108.37	108.37	108.35	108.34	108.33	108.32	108.32	108.32	108.30
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.07

CH 749.62



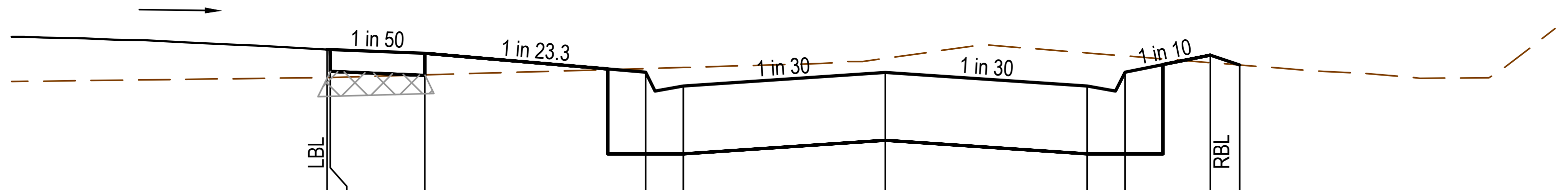
DATUM107.0												
DESIGN SURFACE	108.75	108.75	108.72	108.57	108.46	108.57	108.46	108.57	108.72	108.75	108.75	108.40
EXISTING SURFACE	108.53	108.53	108.51	108.49	108.48	108.47	108.47	108.46	108.44	108.45	108.45	108.40
OFFSET	-9.10	-9.04	-7.28	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.98

CH 733.82



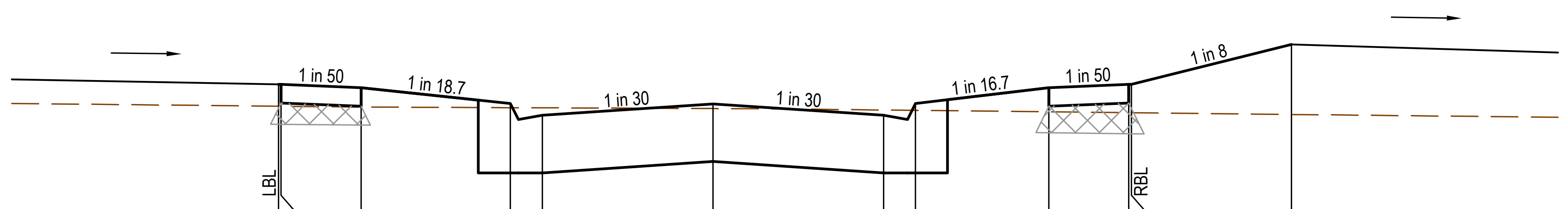
DATUM107.0										
DESIGN SURFACE	108.88	108.88	108.85	108.70	108.59	108.69	108.59	108.70	108.83	108.56
EXISTING SURFACE	108.56	108.56	108.57	108.59	108.60	108.63	108.62	108.61	108.59	108.56
OFFSET	-9.10	-9.04	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	6.80

CH 720.47



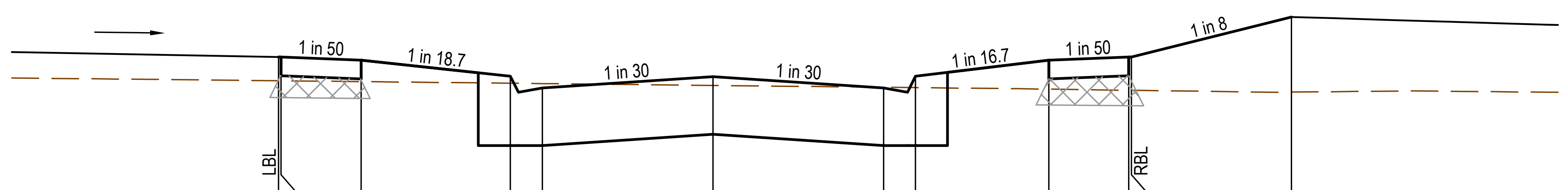
DATUM108.0										
DESIGN SURFACE	109.19	109.19	109.16	109.01	108.90	109.01	108.90	109.01	109.14	109.07
EXISTING SURFACE	108.97	108.97	108.99	109.04	109.05	109.12	109.16	109.14	109.09	109.07
OFFSET	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	5.62

CH 687.10



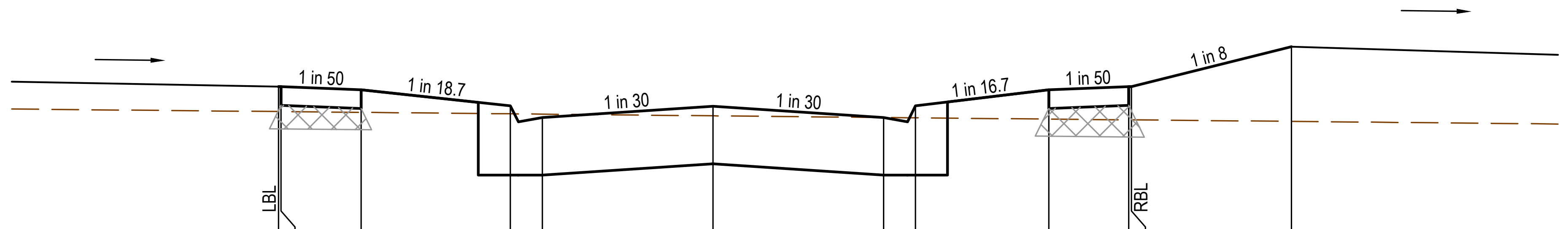
DATUM107.0												
DESIGN SURFACE	108.29	108.29	108.26	108.11	108.00	108.11	108.00	108.11	108.26	108.29	108.29	108.67
EXISTING SURFACE	108.09	108.09	108.08	108.07	108.07	108.06	108.05	108.05	108.03	108.03	108.02	108.01
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 826.12



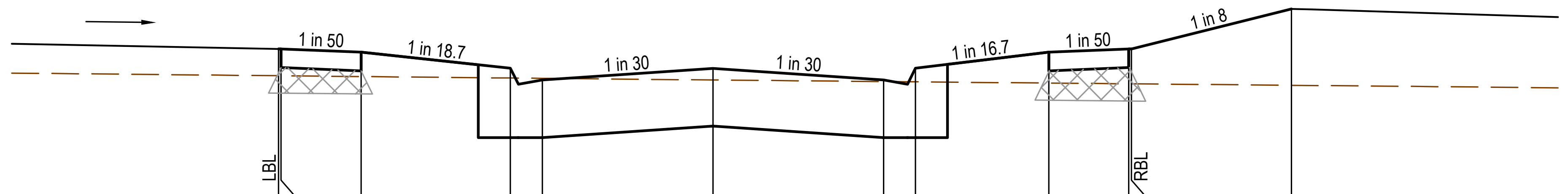
DATUM107.0												
DESIGN SURFACE	108.35	108.35	108.32	108.17	108.06	108.17	108.06	108.17	108.32	108.35	108.35	108.73
EXISTING SURFACE	108.13	108.13	108.12	108.11	108.10	108.09	108.07	108.07	108.05	108.04	108.04	108.02
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 813.62



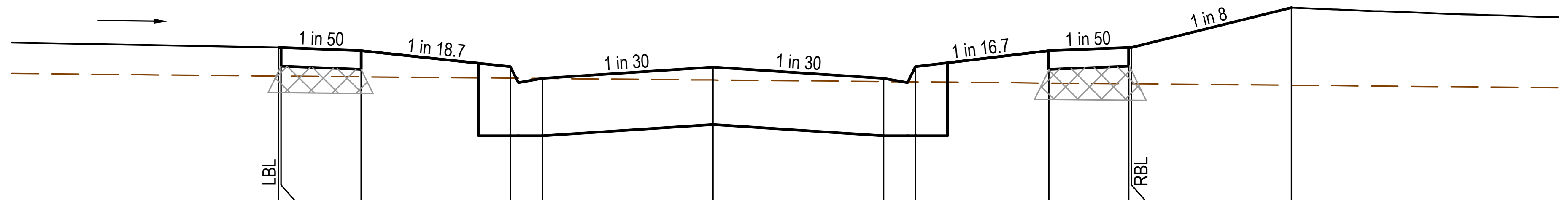
DATUM107.0												
DESIGN SURFACE	108.42	108.42	108.39	108.24	108.13	108.23	108.13	108.24	108.39	108.42	108.42	108.79
EXISTING SURFACE	108.18	108.18	108.17	108.16	108.16	108.14	108.13	108.12	108.11	108.10	108.10	108.09
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 801.12



DATUM107.0												
DESIGN SURFACE	108.48	108.48	108.45	108.30	108.19	108.29	108.19	108.30	108.45	108.48	108.48	108.85
EXISTING SURFACE	108.23	108.23	108.22	108.21	108.20	108.19	108.17	108.17	108.16	108.15	108.15	108.14
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 788.62



DATUM107.0												
DESIGN SURFACE	108.54	108.54	108.51	108.36	108.25	108.36	108.25	108.36	108.51	108.54	108.54	108.92
EXISTING SURFACE	108.27	108.27	108.26	108.25	108.25	108.23	108.22	108.22	108.21	108.20	108.20	108.18
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 776.12

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	CHAINAGES IN TITLE BLOCK CHANGED	AM	LV

SUBJECT TO APPROVAL

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	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

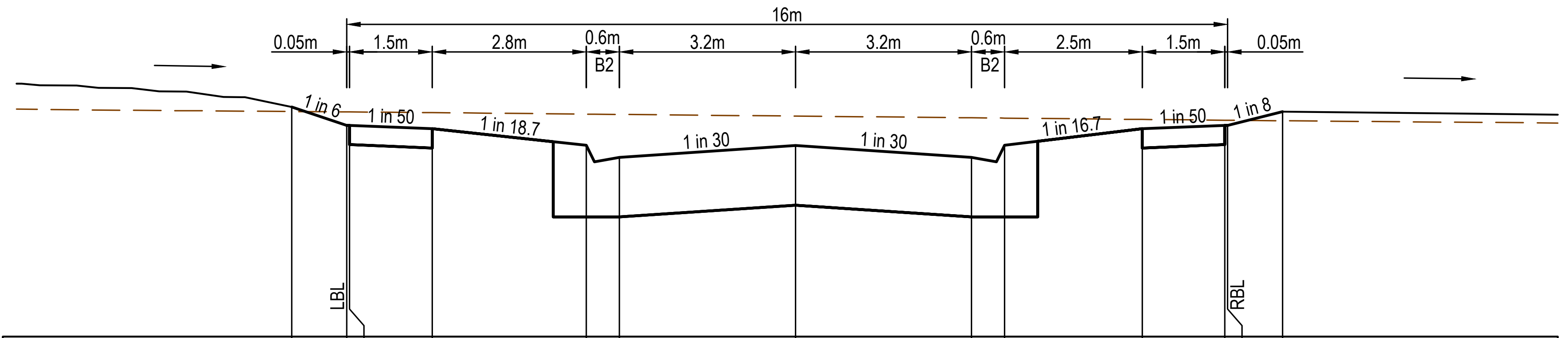
SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Shelterbelt Avenue
Ch 687.10 - Ch 826.12 B

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-08	08 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-08.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:06:32 PM

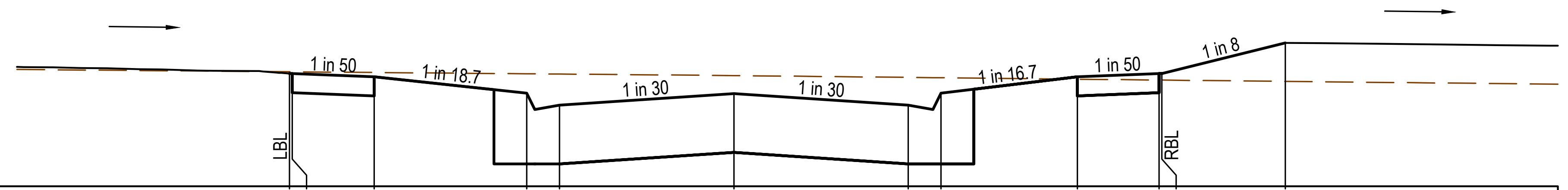
▨ STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM106.0

DESIGN SURFACE	108.08	107.92	107.92	107.89	107.74	107.63	107.73	107.63	107.74	107.89	107.92	107.92	108.04
EXISTING SURFACE	108.04	108.04	108.04	108.03	108.02	108.02	108.00	107.98	107.98	107.97	107.96	107.96	107.96
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.85

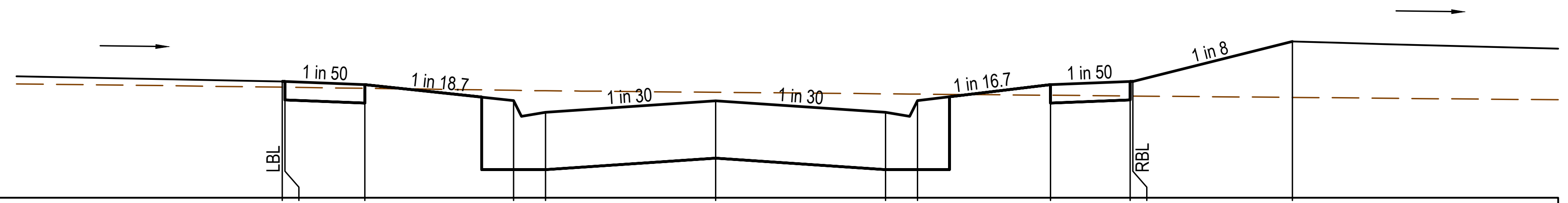
LTPCH 901.07



DATUM107.0

DESIGN SURFACE	108.03	108.03	108.00	107.85	107.74	107.85	107.74	107.85	108.00	108.03	108.03	108.32
EXISTING SURFACE	108.05	108.05	108.04	108.03	108.03	108.02	108.00	108.00	107.98	107.97	107.97	107.96
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.11

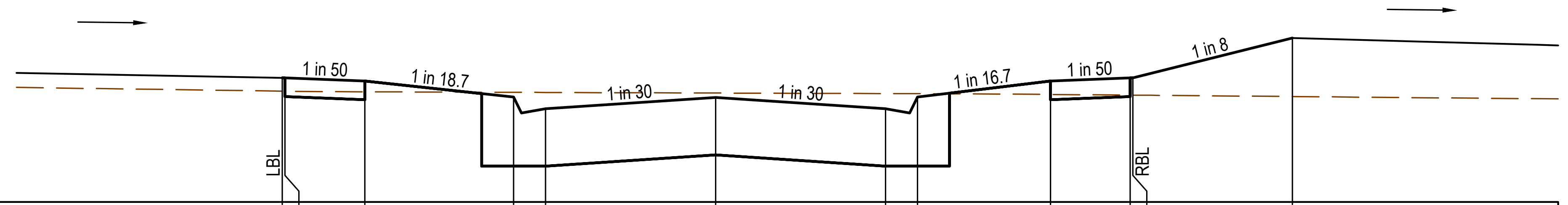
LTPCH 877.47



DATUM107.0

DESIGN SURFACE	108.10	108.10	108.07	107.92	107.81	107.91	107.81	107.92	108.07	108.10	108.10	108.47
EXISTING SURFACE	108.04	108.04	108.03	108.01	108.01	107.99	107.98	107.98	107.96	107.96	107.96	107.94
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

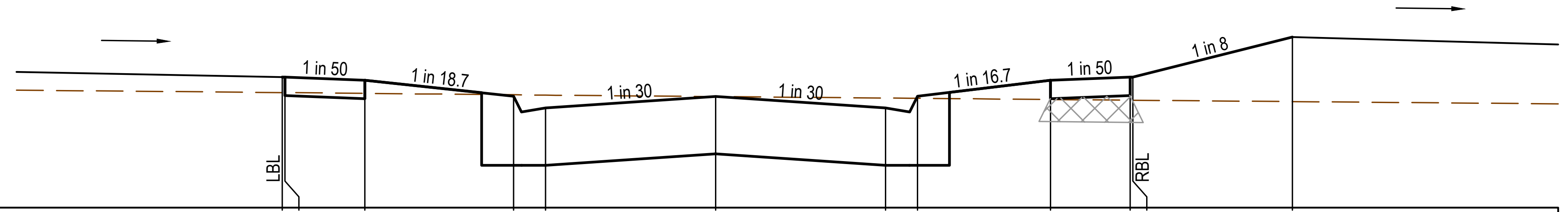
CH 865.12



DATUM107.0

DESIGN SURFACE	108.17	108.17	108.14	107.99	107.88	107.98	107.88	107.99	108.14	108.17	108.17	108.54
EXISTING SURFACE	108.04	108.04	108.03	108.03	108.03	108.02	108.02	108.02	108.01	108.00	108.00	107.99
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

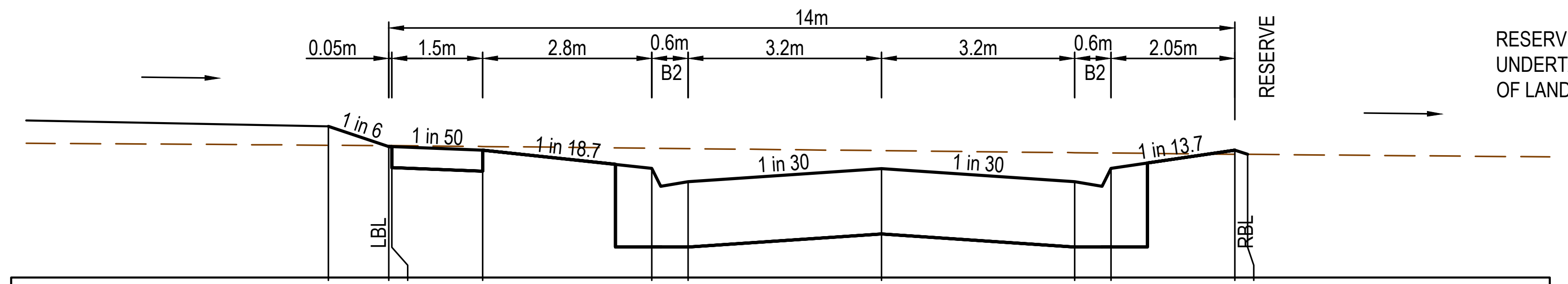
CH 851.12



DATUM107.0

DESIGN SURFACE	108.23	108.23	108.20	108.05	107.94	108.04	107.94	108.05	108.20	108.23	108.23	108.60
EXISTING SURFACE	108.08	108.08	108.07	108.06	108.06	108.04	108.03	108.03	108.02	108.01	108.01	108.00
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	10.85

CH 838.62

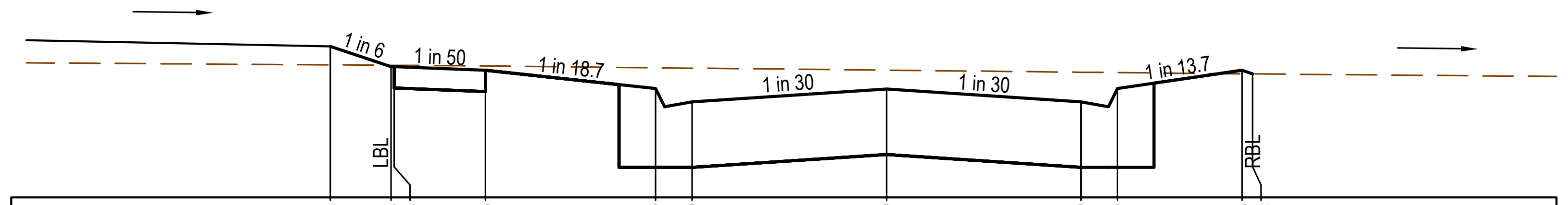


RESERVE WORKS TO BE UNDERTAKEN AS PART OF LANDSCAPING

DATUM107.0

DESIGN SURFACE	108.25	108.08	108.08	108.05	107.90	107.79	107.90	107.79	107.90	108.05	108.02
EXISTING SURFACE	108.09	108.09	108.09	108.08	108.07	108.06	108.05	108.03	108.03	108.02	108.02
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.06

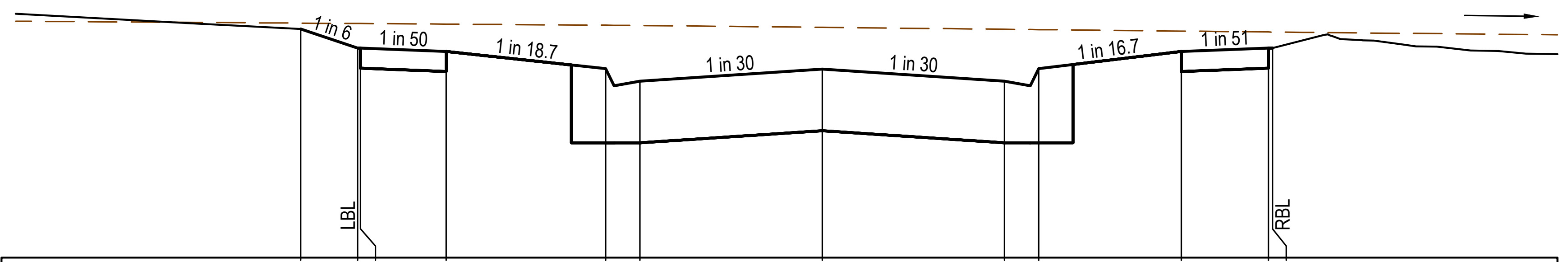
CH 941.87



DATUM107.0

DESIGN SURFACE	108.24	108.08	108.08	108.05	107.90	107.79	107.89	107.79	107.90	108.05	108.02
EXISTING SURFACE	108.09	108.09	108.09	108.08	108.07	108.06	108.05	108.03	108.03	108.02	108.02
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.02

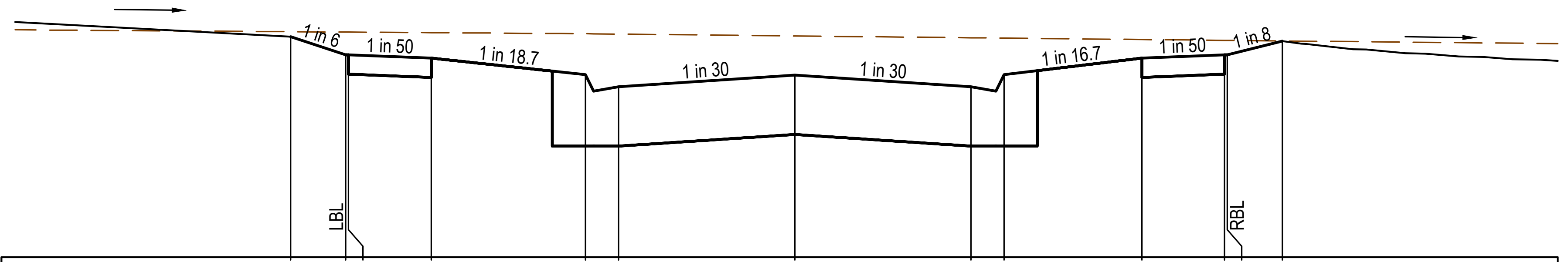
RTPCH 941.31



DATUM106.0

DESIGN SURFACE	108.00	107.83	107.83	107.80	107.65	107.54	107.65	107.54	107.65	107.80	107.83	107.83
EXISTING SURFACE	108.05	108.05	108.05	108.04	108.03	108.03	108.02	108.00	108.00	107.98	107.98	107.97
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.83	7.90

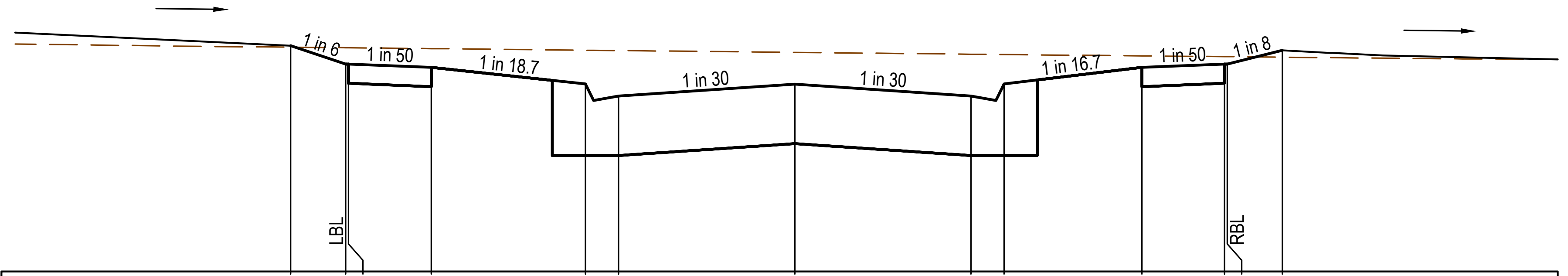
RTPCH 917.71



DATUM106.0

DESIGN SURFACE	108.01	107.84	107.84	107.81	107.66	107.55	107.66	107.55	107.66	107.81	107.84	107.84	107.96
EXISTING SURFACE	108.05	108.05	108.05	108.04	108.03	108.03	108.01	108.00	107.99	107.98	107.97	107.97	107.97
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.85

CH 916.37



DATUM106.0

DESIGN SURFACE	108.05	107.88	107.88	107.85	107.70	107.59	107.70	107.59	107.70	107.85	107.88	107.88	108.01
EXISTING SURFACE	108.03	108.03	108.03	108.02	108.01	108.00	107.99	107.97	107.97	107.96	107.95	107.95	107.94
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.85

CH 907.87

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	CHAINAGES IN TITLE BLOCK CHANGED	AM	LV

SUBJECT TO APPROVAL

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Quality Management · ISO 9001 Global-Mark.com.au®
OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

SMEC
Member of the Surbana Jurong Group
© ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

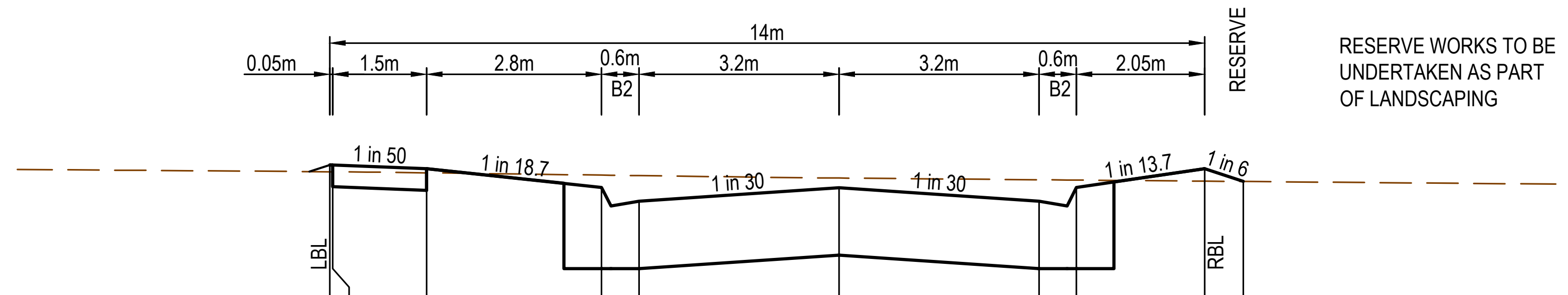
SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Shelterbelt Avenue
Ch 838.62 - Ch 941.87 B

MELWAYS REF: 342 K7
PROJECT / DRAWING No.: 2250E-13-09
SHEET No.: 09 of 22
REVISION: B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-09.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:06:58 PM

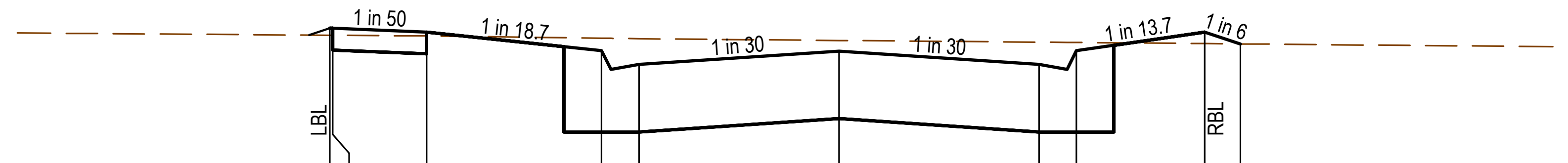
▨ STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



RESERVE WORKS TO BE
UNDERTAKEN AS PART
OF LANDSCAPING

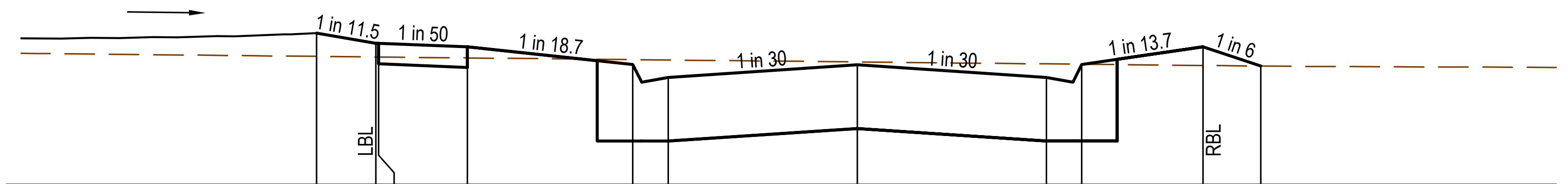
DATUM107.0										
DESIGN SURFACE	108.08	108.08	108.05	107.90	107.79	107.90	107.79	107.90	108.05	107.95
EXISTING SURFACE	108.02	108.02	108.02	108.00	107.99	107.97	107.96	107.96	107.95	107.95
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.47

CH 985.12



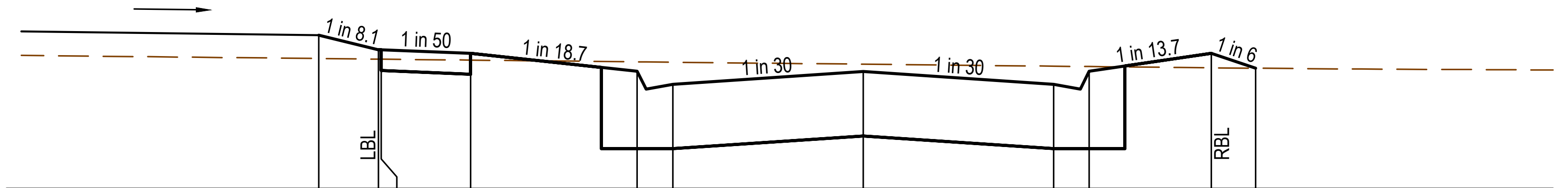
DATUM107.0										
DESIGN SURFACE	108.10	108.10	108.07	107.92	107.81	107.92	107.81	107.92	108.07	107.97
EXISTING SURFACE	108.04	108.04	108.04	108.02	108.02	108.00	107.99	107.99	107.98	107.97
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.42

LTPCH 981.07



DATUM107.0											
DESIGN SURFACE	108.29	108.20	108.20	108.17	108.02	107.91	108.02	107.91	108.02	108.17	108.01
EXISTING SURFACE	108.09	108.08	108.08	108.08	108.06	108.06	108.04	108.02	108.02	108.01	108.01
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.83

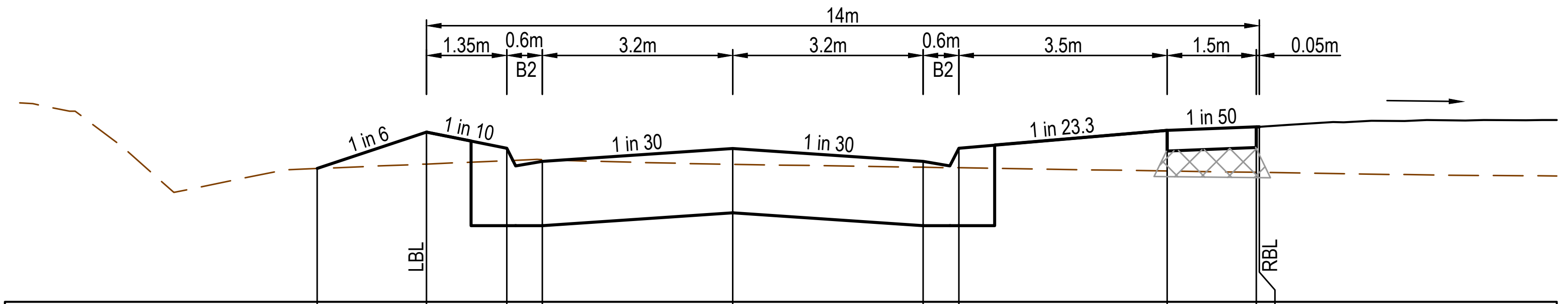
LTPCH 957.47



DATUM107.0											
DESIGN SURFACE	108.29	108.17	108.17	108.14	107.99	107.88	107.98	107.88	107.99	108.14	108.01
EXISTING SURFACE	108.09	108.09	108.09	108.08	108.07	108.06	108.05	108.03	108.03	108.02	108.01
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	5.85	6.60

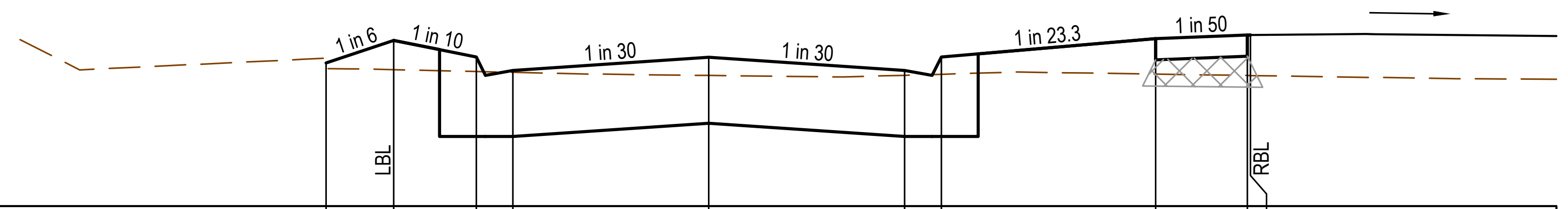
CH 950.37

SHELTERBELT AVENUE



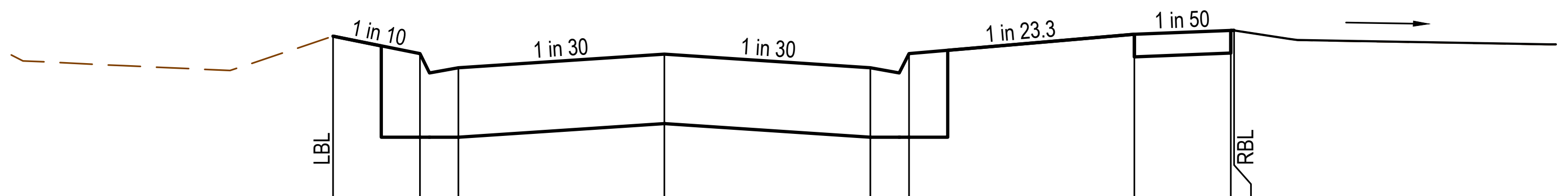
DATUM107.0										
DESIGN SURFACE	108.12	108.43	108.29	108.18	108.29	108.18	108.29	108.44	108.47	108.47
EXISTING SURFACE	108.12	108.16	108.19	108.19	108.15	108.13	108.13	108.10	108.09	108.09
OFFSET	-6.99	-5.15	-3.80	-3.20	0.00	3.20	3.80	7.30	8.80	8.85

RTPCH 249.39



DATUM107.0										
DESIGN SURFACE	108.17	108.36	108.22	108.11	108.22	108.11	108.22	108.37	108.40	108.40
EXISTING SURFACE	108.21	108.12	108.10	108.09	108.07	108.07	108.08	108.08	108.07	108.07
OFFSET	-6.25	-5.15	-3.80	-3.20	0.00	3.20	3.80	7.30	8.80	8.85

CH 240.00



DATUM107.0									
DESIGN SURFACE	108.25	108.11	108.00	108.11	108.00	108.11	108.26	108.29	108.29
EXISTING SURFACE	108.25	108.11	108.00	108.11	108.00	108.11	108.26	108.29	108.29
OFFSET	-5.15	-3.80	-3.20	0.00	3.20	3.80	7.30	8.80	8.85

CH 225.89

SAMUEL ROAD

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	CHAINAGES IN TITLE BLOCK CHANGED	AM	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

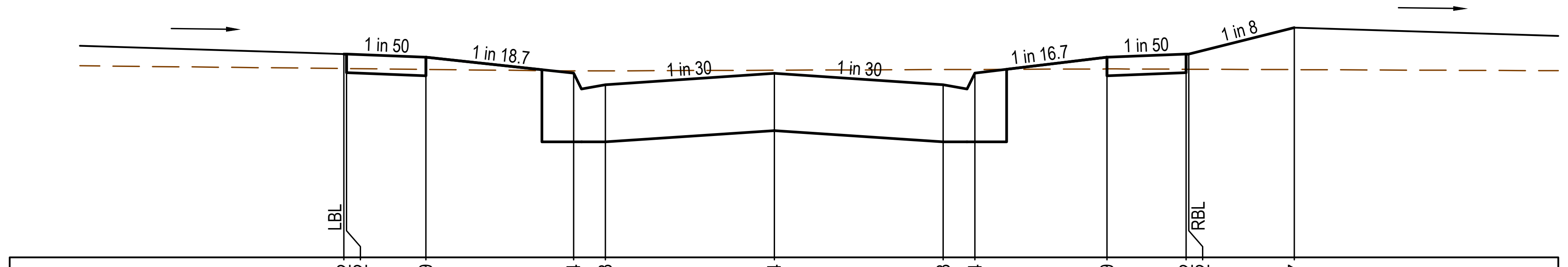
SMEC
Member of the Surbana Jurong Group
ⓒ ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
B
Cross Sections: Shelterbelt Avenue Ch 950.37 - Ch 985.12
and Samuel Road Ch 225.89 - Ch 249.39

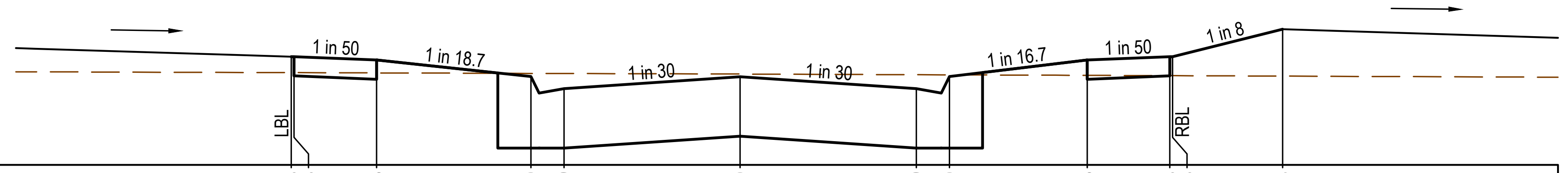
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-10	10 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-10.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:07:24 PM



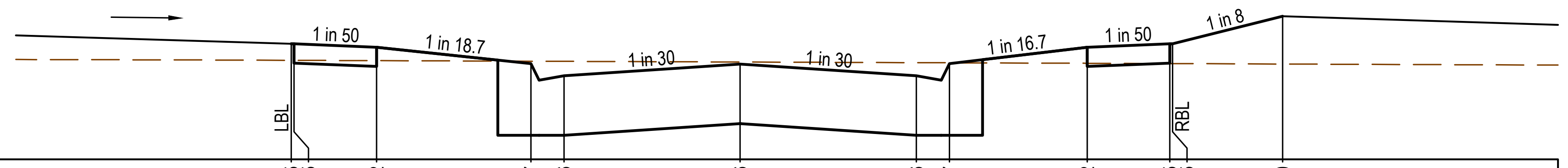
DATUM106.0												
DESIGN SURFACE	107.92	107.92	107.89	107.74	107.63	107.74	107.63	107.74	107.89	107.92	107.92	108.17
EXISTING SURFACE	107.78	107.78	107.78	107.76	107.76	107.77	107.77	107.78	107.78	107.78	107.78	107.77
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 351.11



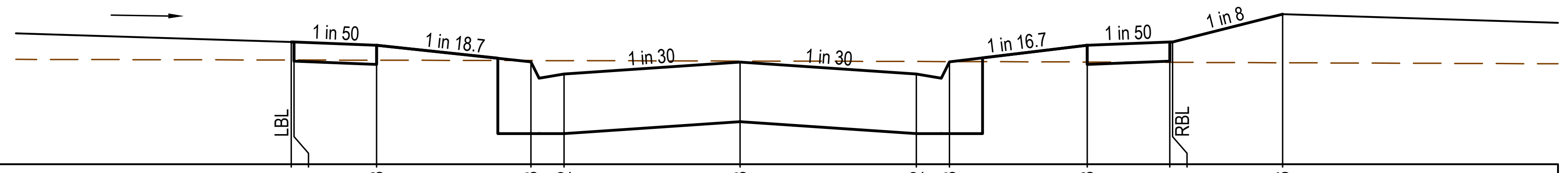
DATUM107.0												
DESIGN SURFACE	107.98	107.98	107.95	107.80	107.69	107.80	107.69	107.80	107.95	107.98	107.98	108.23
EXISTING SURFACE	107.84	107.84	107.84	107.83	107.83	107.83	107.82	107.82	107.81	107.81	107.81	107.81
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 338.61



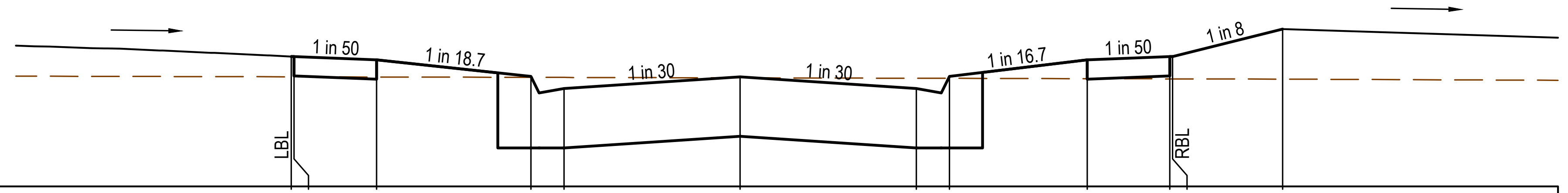
DATUM107.0												
DESIGN SURFACE	108.05	108.05	108.02	107.87	107.76	107.86	107.76	107.87	108.02	108.05	108.05	108.30
EXISTING SURFACE	107.90	107.90	107.89	107.89	107.89	107.88	107.88	107.87	107.87	107.87	107.87	107.86
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 326.11



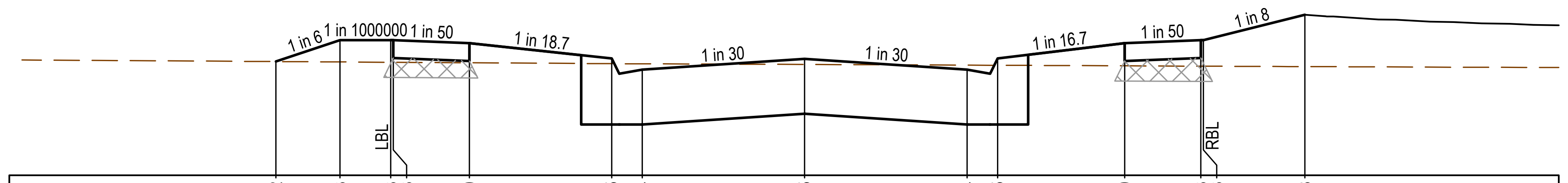
DATUM107.0												
DESIGN SURFACE	108.11	108.11	108.08	107.93	107.82	107.93	107.82	107.93	108.08	108.11	108.11	108.36
EXISTING SURFACE	107.94	107.94	107.94	107.94	107.94	107.94	107.93	107.93	107.93	107.92	107.92	107.92
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 313.61



DATUM107.0												
DESIGN SURFACE	108.18	108.18	108.15	108.00	107.89	108.00	107.89	108.00	108.15	108.18	108.18	108.43
EXISTING SURFACE	108.00	108.00	107.99	107.99	107.99	107.99	107.98	107.98	107.98	107.98	107.98	107.97
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

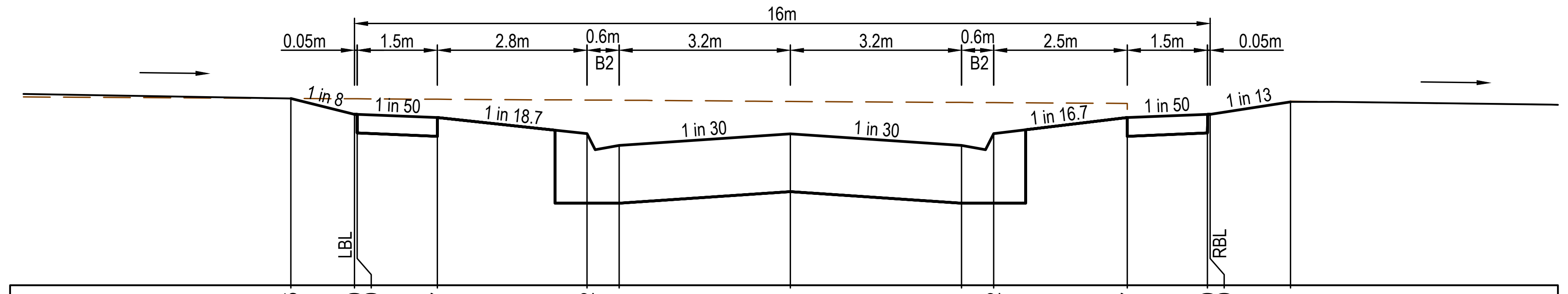
CH 299.61



DATUM107.0														
DESIGN SURFACE	108.12	108.33	108.33	108.33	108.30	108.15	108.04	108.15	108.04	108.15	108.30	108.33	108.33	108.58
EXISTING SURFACE	108.12	108.11	108.11	108.11	108.11	108.10	108.10	108.09	108.08	108.08	108.08	108.07	108.07	108.07
OFFSET	-10.41	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

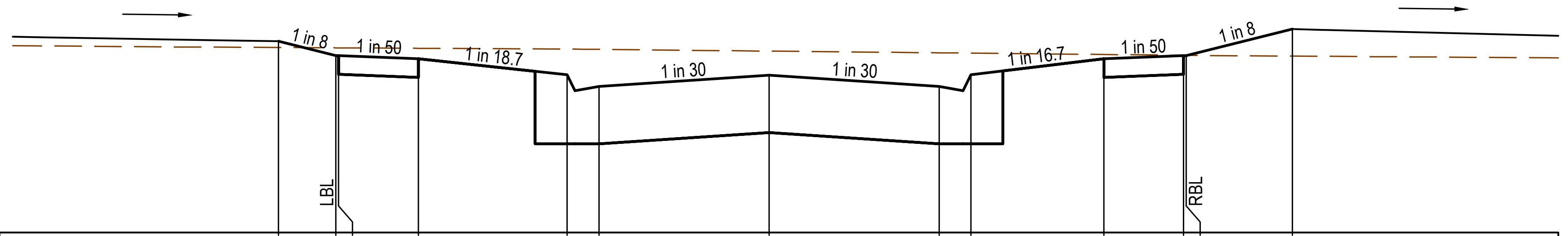
RTPCH 269.57

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



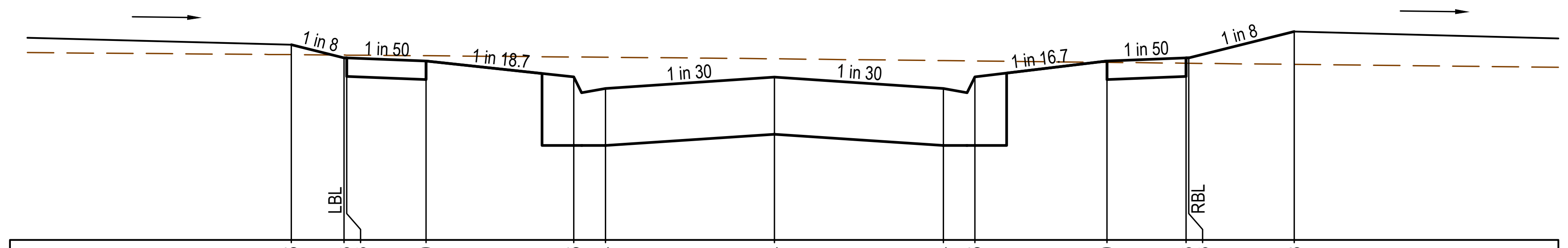
DATUM106.0													
DESIGN SURFACE	107.75	107.60	107.60	107.57	107.42	107.31	107.41	107.31	107.42	107.57	107.60	107.60	107.71
EXISTING SURFACE	107.75	107.74	107.74	107.74	107.73	107.73	107.72	107.71	107.71	107.70	107.60	107.60	107.72
OFFSET	-9.34	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.35

CH 415.93



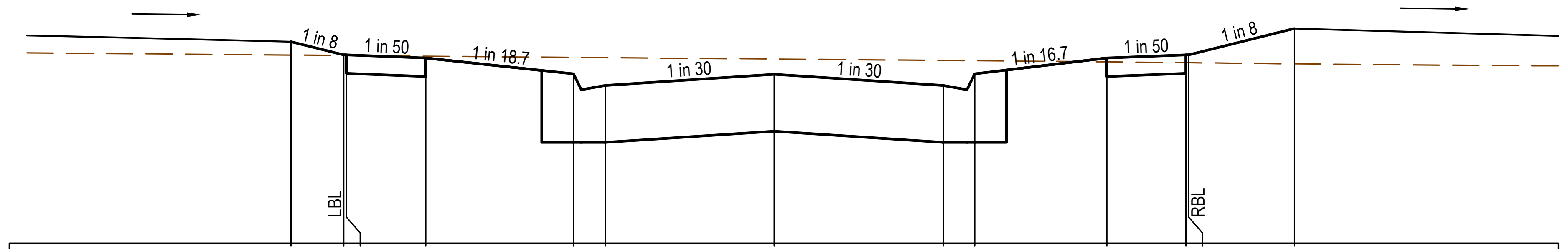
DATUM106.0													
DESIGN SURFACE	107.80	107.66	107.66	107.63	107.48	107.37	107.48	107.37	107.48	107.63	107.66	107.66	107.91
EXISTING SURFACE	107.74	107.74	107.74	107.73	107.72	107.72	107.71	107.69	107.69	107.67	107.67	107.67	107.66
OFFSET	-9.23	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 402.61



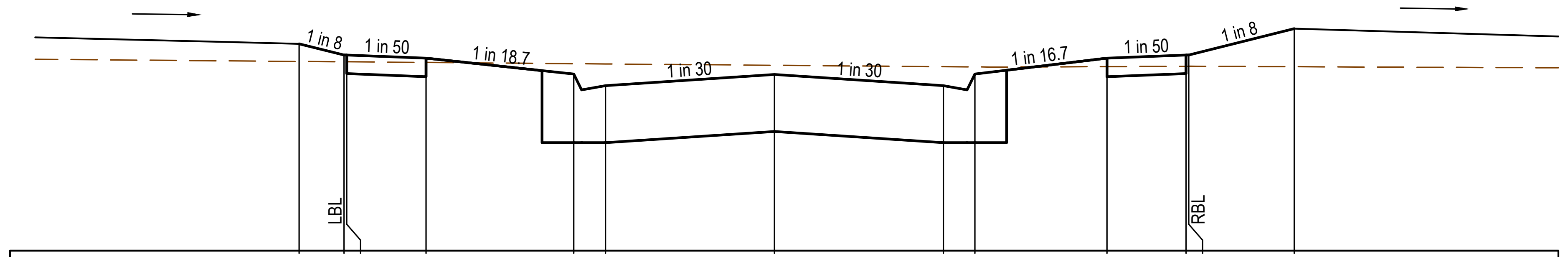
DATUM106.0													
DESIGN SURFACE	107.85	107.73	107.73	107.70	107.55	107.44	107.54	107.44	107.55	107.70	107.73	107.73	107.98
EXISTING SURFACE	107.76	107.75	107.75	107.75	107.73	107.73	107.72	107.70	107.70	107.68	107.68	107.68	107.66
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 390.11



DATUM106.0													
DESIGN SURFACE	107.91	107.79	107.79	107.76	107.61	107.50	107.61	107.50	107.61	107.76	107.79	107.79	108.04
EXISTING SURFACE	107.79	107.78	107.78	107.78	107.77	107.76	107.75	107.74	107.73	107.72	107.72	107.72	107.70
OFFSET	-9.15	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 377.61



DATUM106.0													
DESIGN SURFACE	107.96	107.85	107.85	107.82	107.67	107.56	107.67	107.56	107.67	107.82	107.85	107.85	108.10
EXISTING SURFACE	107.79	107.79	107.79	107.78	107.77	107.77	107.75	107.74	107.74	107.74	107.74	107.75	107.74
OFFSET	-9.00	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 365.11

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	ROAD NAME CHANGED AND CHAINAGES ADDED	AM	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

SMEC
Member of the Surbana Jurong Group
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Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

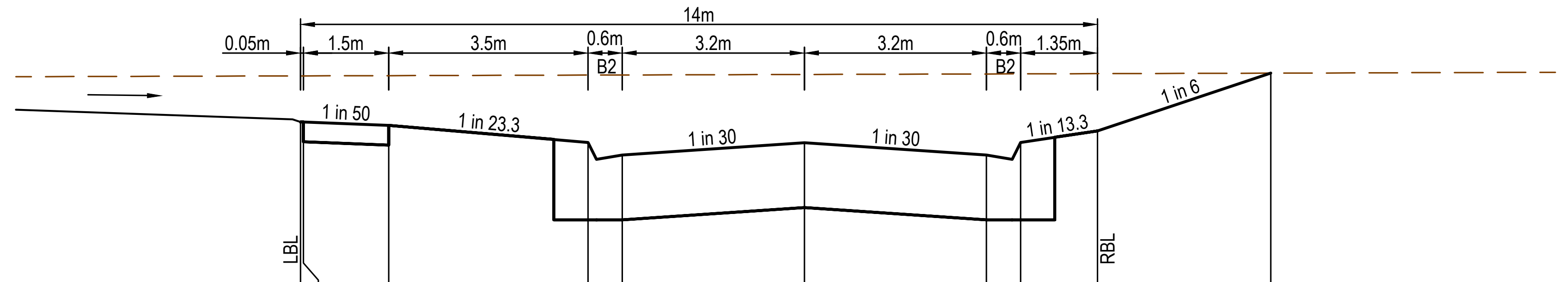
SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Samuel Road
Ch 269.57 - Ch 415.93
B

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-11	11 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-11.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:07:49 PM

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

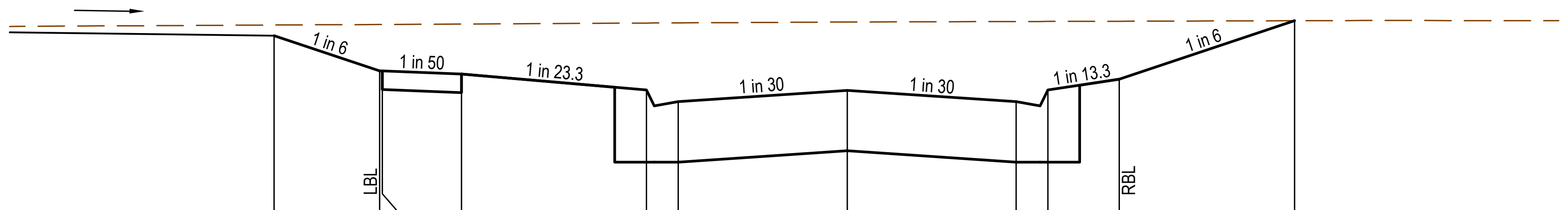


RESERVE WORKS TO BE
UNDERTAKEN AS PART
OF LANDSCAPING

DATUM106.0

DESIGN SURFACE	107.49	107.49	107.46	107.31	107.20	107.31	107.20	107.31	107.41	107.92
EXISTING SURFACE	107.89	107.89	107.90	107.90	107.90	107.91	107.91	107.91	107.91	107.92
OFFSET	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	8.19

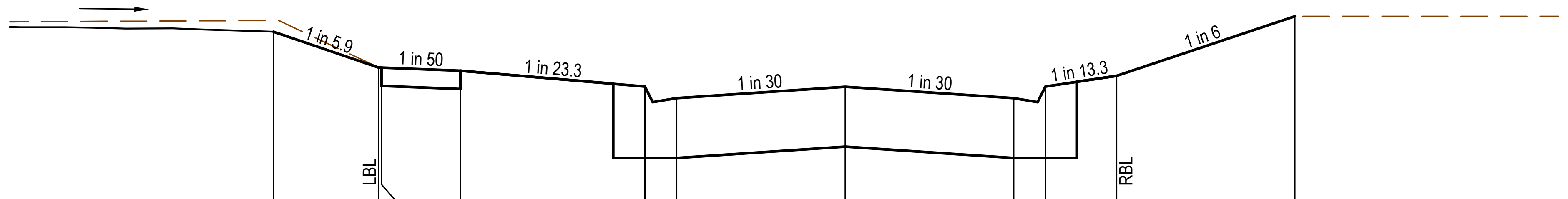
CH 185.28



DATUM106.0

DESIGN SURFACE	107.74	107.41	107.41	107.38	107.23	107.12	107.23	107.12	107.23	107.33	107.88
EXISTING SURFACE	107.84	107.85	107.85	107.85	107.86	107.86	107.87	107.88	107.88	107.88	107.88
OFFSET	-10.85	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	8.47

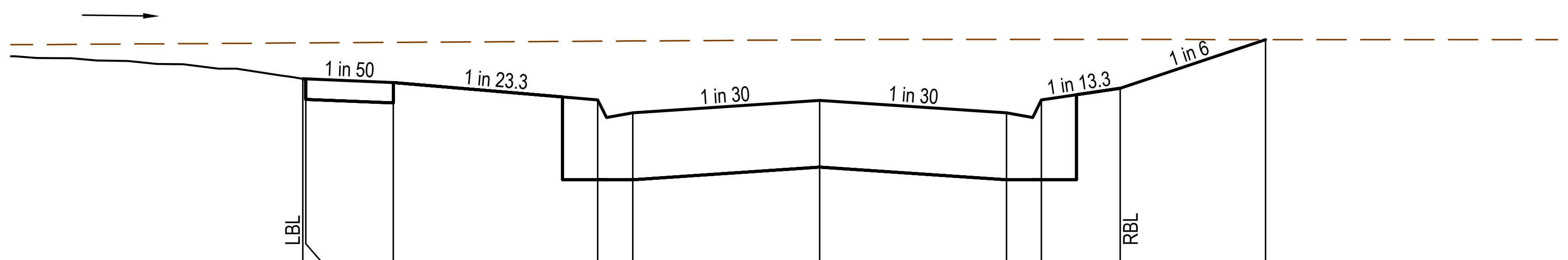
CH 174.78



DATUM106.0

DESIGN SURFACE	107.70	107.36	107.36	107.33	107.18	107.07	107.18	107.07	107.18	107.28	107.85
EXISTING SURFACE	107.81	107.36	107.36	107.33	107.18	107.07	107.18	107.07	107.18	107.28	107.85
OFFSET	-10.85	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	8.53

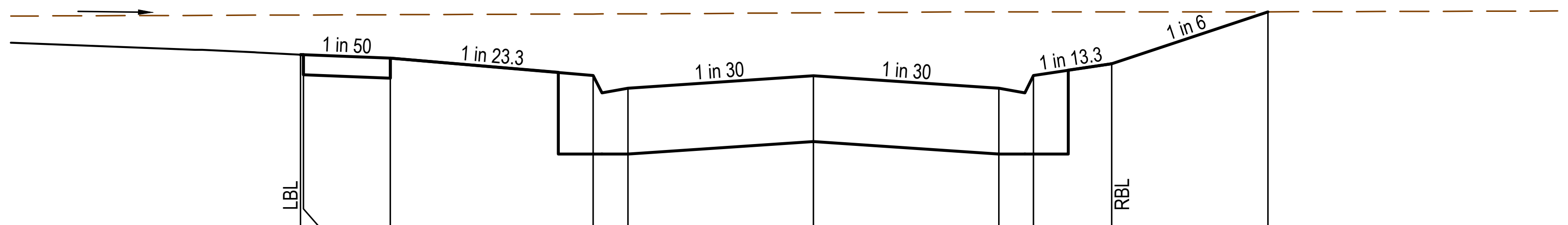
CH 168.28



DATUM106.0

DESIGN SURFACE	107.66	107.66	107.63	107.48	107.37	107.47	107.37	107.48	107.58	107.99
EXISTING SURFACE	107.96	107.97	107.97	107.98	107.98	107.99	108.00	107.99	107.99	107.99
OFFSET	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	7.64

TPCH 207.32



DATUM106.0

DESIGN SURFACE	107.59	107.59	107.56	107.41	107.30	107.40	107.30	107.41	107.51	107.96
EXISTING SURFACE	107.93	107.93	107.93	107.94	107.94	107.95	107.95	107.95	107.95	107.96
OFFSET	-8.85	-8.80	-7.30	-3.80	-3.20	0.00	3.20	3.80	5.15	7.85

CH 197.78

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH

SUBJECT TO APPROVAL

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

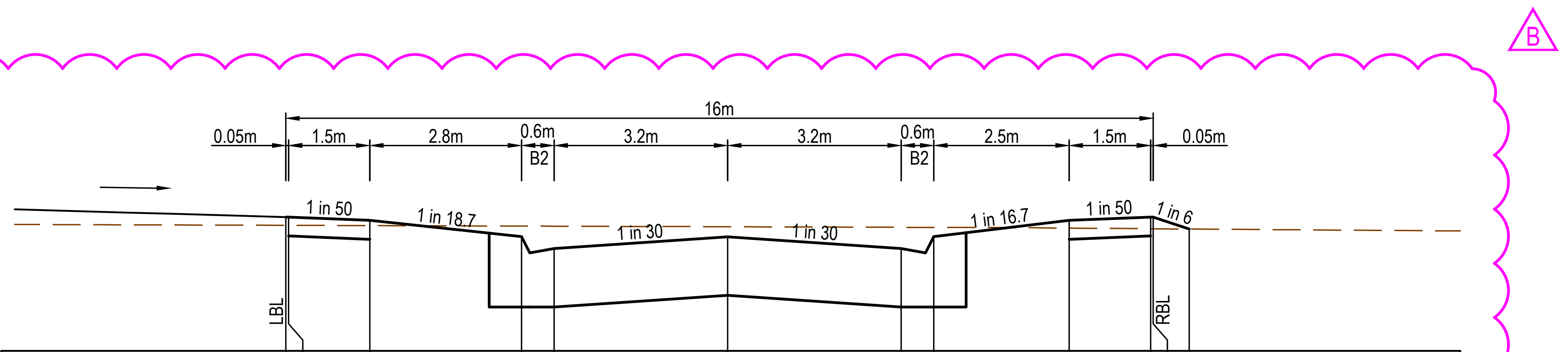
SMEC
Member of the Surbana Jurong Group
ⓒ ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Grazing Road

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-12	12 of 22	A

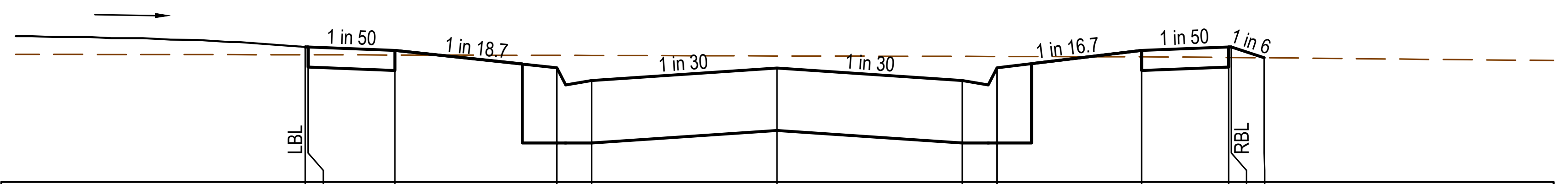
▨ STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



DATUM107.0

DESIGN SURFACE	108.23	108.23	108.20	108.05	107.94	108.05	107.94	108.05	108.20	108.23	108.23	108.12
EXISTING SURFACE	108.16	108.16	108.16	108.15	108.15	108.14	108.14	108.14	108.13	108.13	108.13	108.12
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.51

CH 25.15

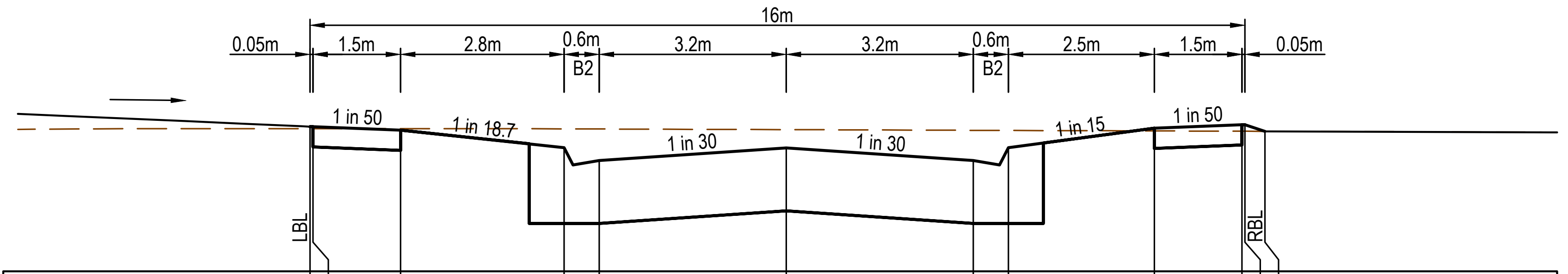


DATUM107.0

DESIGN SURFACE	108.17	108.17	108.14	107.99	107.88	107.98	107.88	107.99	108.14	108.17	108.17	108.07
EXISTING SURFACE	108.10	108.10	108.10	108.09	108.09	108.09	108.09	108.08	108.08	108.08	108.08	108.07
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.42

TPCH 11.80

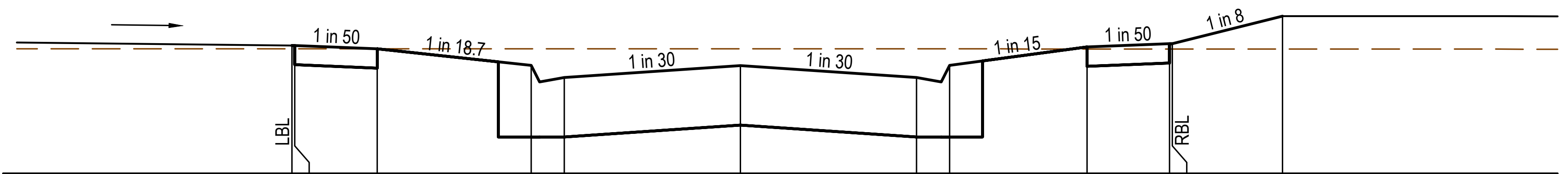
LANDMARK ROAD



DATUM107.0

DESIGN SURFACE	108.24	108.24	108.21	108.06	107.95	108.06	107.95	108.06	108.23	108.26	108.26	108.20
EXISTING SURFACE	108.22	108.22	108.22	108.22	108.22	108.22	108.21	108.21	108.20	108.20	108.20	108.20
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	8.19

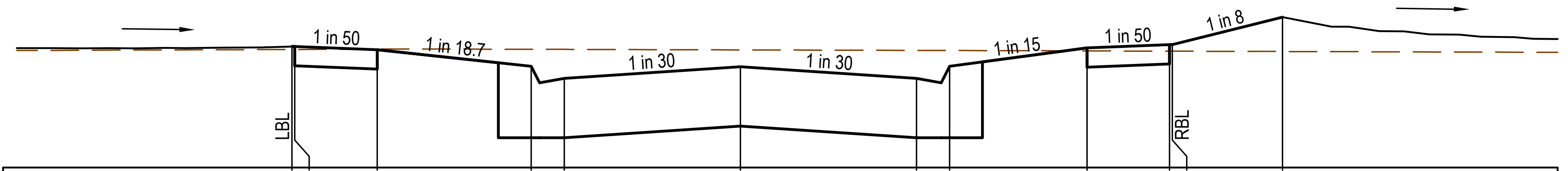
CH 40.15



DATUM107.0

DESIGN SURFACE	108.16	108.16	108.13	107.98	107.87	107.98	107.87	107.98	108.15	108.18	108.18	108.43
EXISTING SURFACE	108.13	108.13	108.13	108.13	108.13	108.13	108.13	108.13	108.13	108.13	108.13	108.13
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

CH 24.15



DATUM107.0

DESIGN SURFACE	108.10	108.10	108.07	107.92	107.81	107.92	107.81	107.92	108.09	108.12	108.12	108.37
EXISTING SURFACE	108.07	108.07	108.08	108.07	108.07	108.07	108.06	108.06	108.06	108.06	108.06	108.05
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80	7.85	9.85

TPCH 11.80

SHALLOW ROAD

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	14.09.20	FOOTPATH ADDED TO CROSS SECTION	AM	LV

SUBJECT TO APPROVAL

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OHS Management · AS/NZS 4801 Global-Mark.com.au®
Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
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 A1

Member of the Surbana Jurong Group
ABN 47 065 475 149
Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Landmark Road
and Shallow Road

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-13	13 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-13.dwg PRINTED BY: AM13398 on 14/09/2020 at 02:42:41 PM

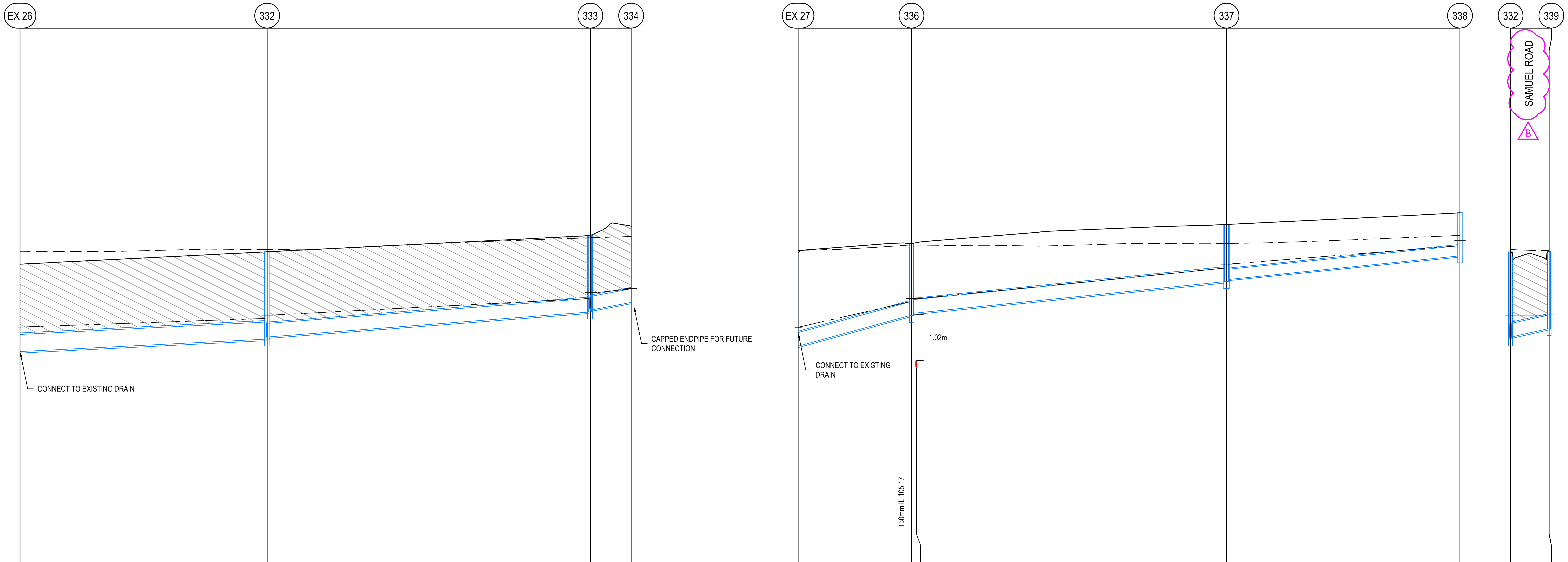
▨ CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

LEGEND

— — — — —	EXISTING SURFACE
————————	DESIGN SURFACE
————————	DRAINAGE PIPE/PIT
— — — — —	EXISTING DRAINAGE PIPE/PIT
——— – ———	HYDRAULIC GRADE LINE
▨	CRUSHED ROCK BACKFILL

NOTES

1. 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.
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



	EX 26		332		333		334
DESIGN FLOW (m3/s)		0.103		0.066		0.027	
CAPACITY (m3/s)		0.124		0.085		0.129	
AT GRADE VELOCITY (m/s)		1.12		1.2		1.82	
NOMINAL PIPE SIZE (mm)		375Ø		300Ø		300Ø	
PIPE TYPE		RCP		RCP		RCP	
GRADE		1 in 200		1 in 131		1 in 56.4	
DATUM	99.0						
DEPTH TO INVERT	1.93 1.93		1.93 1.88		1.69 1.64		1.68
HYDRAULIC GRADE LINE	106.06		106.25 106.32		106.69 106.82 106.81		106.90
INVERT LEVEL	105.52 105.52		105.79 105.84		106.39 106.44		106.60
FINISHED SURFACE LEVELS	107.45		107.72		108.08		108.28
EXISTING SURFACE LEVEL	107.73		107.77		108.03		108.06
CHAINAGE	-8.16		46.34		117.63		126.63
(Reach Length)		(54.50)		(71.30)		(9.00)	

	EX 27		336		337		338
DESIGN FLOW (m3/s)		0.053		0.056		0.024	
CAPACITY (m3/s)		0.159		0.097		0.045	
AT GRADE VELOCITY (m/s)		2.25		1.37		1.13	
NOMINAL PIPE SIZE (mm)		300Ø		300Ø		225Ø	
PIPE TYPE		RCP		RCP		RCP	
GRADE		1 in 36.9		1 in 100		1 in 100	
DATUM	99.0						
DEPTH TO INVERT	2.06 2.06		1.59 1.54		1.26 1.21		0.95
HYDRAULIC GRADE LINE	106.05		106.61 106.69 106.67		107.36 107.45		107.85 107.97
INVERT LEVEL	105.64 105.64		106.31 106.36 106.37		107.06 107.11		107.62
FINISHED SURFACE LEVELS	107.70		107.90		108.32		108.58
EXISTING SURFACE LEVEL	107.75		107.87		107.90		108.08
CHAINAGE	-8.16		16.84 17.94		86.33		137.83
(Reach Length)		(25.00)		(69.50)		(51.50)	

	332		339
DESIGN FLOW (m3/s)		0.008	
CAPACITY (m3/s)		0.140	
AT GRADE VELOCITY (m/s)		1.98	
NOMINAL PIPE SIZE (mm)		300Ø	
PIPE TYPE		RCP	
GRADE		1 in 48	
DATUM	99.0		
DEPTH TO INVERT	1.93 1.88		1.70
HYDRAULIC GRADE LINE	106.25 106.32		106.32 106.33
INVERT LEVEL	105.79 105.84		106.02
FINISHED SURFACE LEVELS	107.72		107.72
EXISTING SURFACE LEVEL	107.77		107.75
CHAINAGE	0.00		8.50
(Reach Length)		(8.50)	

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	ROAD NAME CHANGED AND SEWER CLEARANCE ADDED	AM	LV

SUBJECT TO APPROVAL

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Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

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Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 1

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-14	14 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-14.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:09:03 PM

CRUSHED ROCK BACKFILL

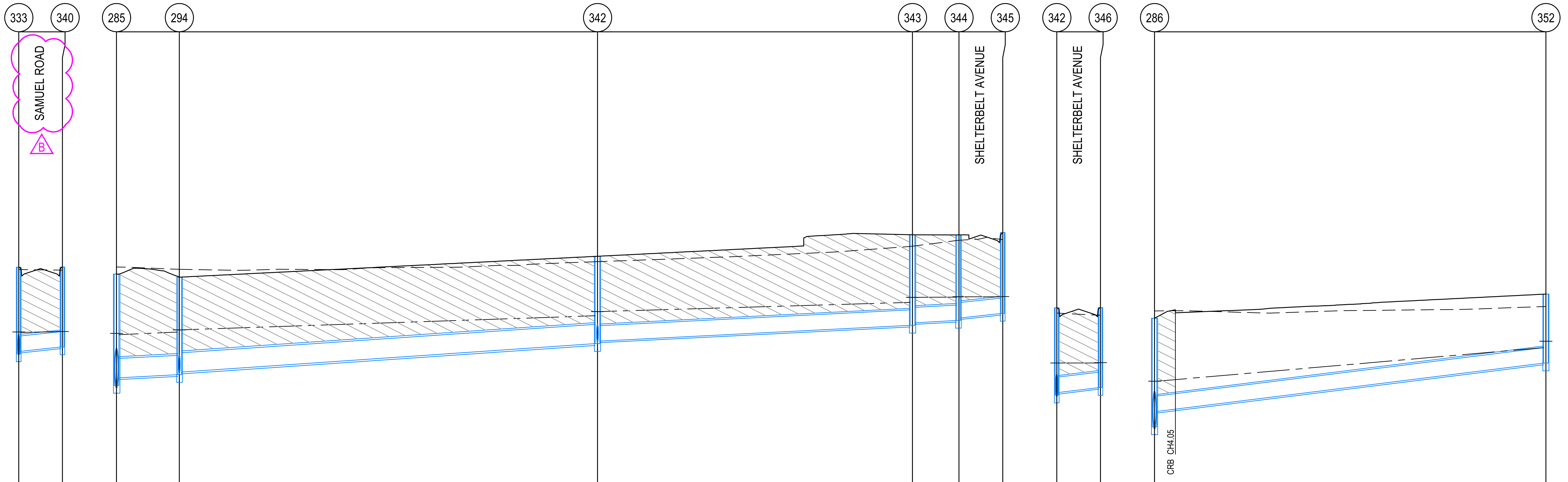
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

LEGEND

— — — — —	EXISTING SURFACE
———————	DESIGN SURFACE
———————	DRAINAGE PIPE/PIT
— — — — —	EXISTING DRAINAGE PIPE/PIT
———— – ————	HYDRAULIC GRADE LINE
▨	CRUSHED ROCK BACKFILL

NOTES

1. 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.
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



	333		340
DESIGN FLOW (m3/s)		0.004	
CAPACITY (m3/s)		0.097	
AT GRADE VELOCITY (m/s)		1.37	
NOMINAL PIPE SIZE (mm)		300Ø	
PIPE TYPE		RCP	
GRADE		1 in 100	
DATUM	99.0		
DEPTH TO INVERT	1.69 1.64		1.55
HYDRAULIC GRADE LINE	106.69 106.82 106.81		106.82
INVERT LEVEL	106.39 106.44		106.52
FINISHED SURFACE LEVELS	108.08		108.08
EXISTING SURFACE LEVEL	108.03		108.02
CHAINAGE	0.00		8.50
(Reach Length)		(8.50)	

	285		294		342		343		344		345
DESIGN FLOW (m3/s)		0.112		0.102		0.052		0.015		0.007	
CAPACITY (m3/s)		0.124		0.145		0.068		0.068		0.097	
AT GRADE VELOCITY (m/s)		1.12		1.31		0.97		0.97		1.37	
NOMINAL PIPE SIZE (mm)		375Ø		375Ø		300Ø		300Ø		300Ø	
PIPE TYPE		RCP		RCP		RCP		RCP		RCP	
GRADE		1 in 200		1 in 147		1 in 200		1 in 200		1 in 100	
DATUM	99.0										
DEPTH TO INVERT	2.17 2.02		1.89 1.84		1.70 1.65		1.76 1.71		1.66 1.61		1.57
HYDRAULIC GRADE LINE	106.63 106.79 106.76		106.81 106.86		107.13 107.21		107.39 107.49		107.49 107.50		107.50 107.50
INVERT LEVEL	105.78 105.93		105.99 106.04		106.59 106.64		106.94 106.99		107.04 107.09		107.17
FINISHED SURFACE LEVELS	107.94		107.88		108.29		108.70		108.70		108.75
EXISTING SURFACE LEVEL	108.08		108.03		108.18		108.48		108.60		108.61
CHAINAGE	-76.75		-64.54		16.71		77.92		86.95		95.45
(Reach Length)		(12.21)		(81.25)		(61.21)		(9.03)		(8.50)	

	342		346
DESIGN FLOW (m3/s)		0.009	
CAPACITY (m3/s)		0.103	
AT GRADE VELOCITY (m/s)		1.46	
NOMINAL PIPE SIZE (mm)		300Ø	
PIPE TYPE		RCP	
GRADE		1 in 88.1	
DATUM	100.0		
DEPTH TO INVERT	1.70 1.65		1.55
HYDRAULIC GRADE LINE	107.13 107.21		107.21 107.22
INVERT LEVEL	106.59 106.64		106.74
FINISHED SURFACE LEVELS	108.29		108.29
EXISTING SURFACE LEVEL	108.18		108.14
CHAINAGE	0.00		8.50
(Reach Length)		(8.50)	

	286		352
DESIGN FLOW (m3/s)		0.081	
CAPACITY (m3/s)		0.108	
AT GRADE VELOCITY (m/s)		1.52	
NOMINAL PIPE SIZE (mm)		300Ø	
PIPE TYPE		RCP	
GRADE		1 in 80.9	
DATUM	100.0		
DEPTH TO INVERT	2.11 1.81		1.34
HYDRAULIC GRADE LINE	106.84 106.86		107.51 107.64
INVERT LEVEL	105.97 106.27		107.21
FINISHED SURFACE LEVELS	108.08		108.55
EXISTING SURFACE LEVEL	108.22		108.31
CHAINAGE	0.00		76.05
(Reach Length)		(76.05)	

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

SMEC
Member of the Surbana Jurong Group
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Tower 4, Level 20, 727 Collins Street
Docklands, VIC 3008
Ph 03 9514 1500

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-15	15 of 22	A

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-15.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:09:27 PM

CRUSHED ROCK BACKFILL

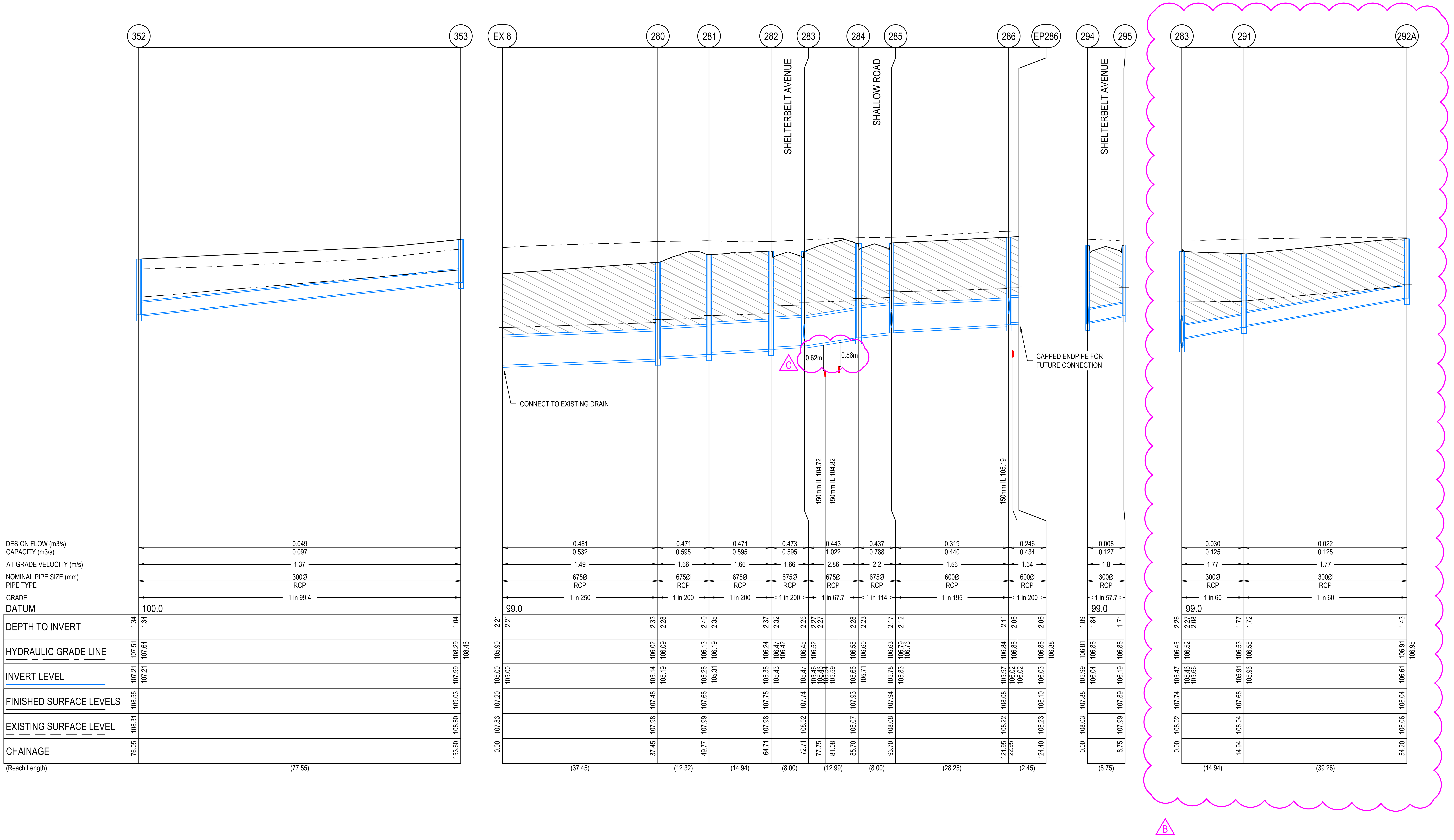
▨ CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

LEGEND

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

NOTES

1. 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.
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. 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	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	06.05.20	PIT REMOVED	AK	LV
C	20.08.20	SEWER CLEARANCE ADDED	AM	LV

SUBJECT TO APPROVAL

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Environmental Management · ISO14001 Global-Mark.com.au®

TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

N

SMEC
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Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-16	16 of 22	C

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-16.dwg PRINTED BY: AM13398 on 26/08/2020 at 11:58:21 AM

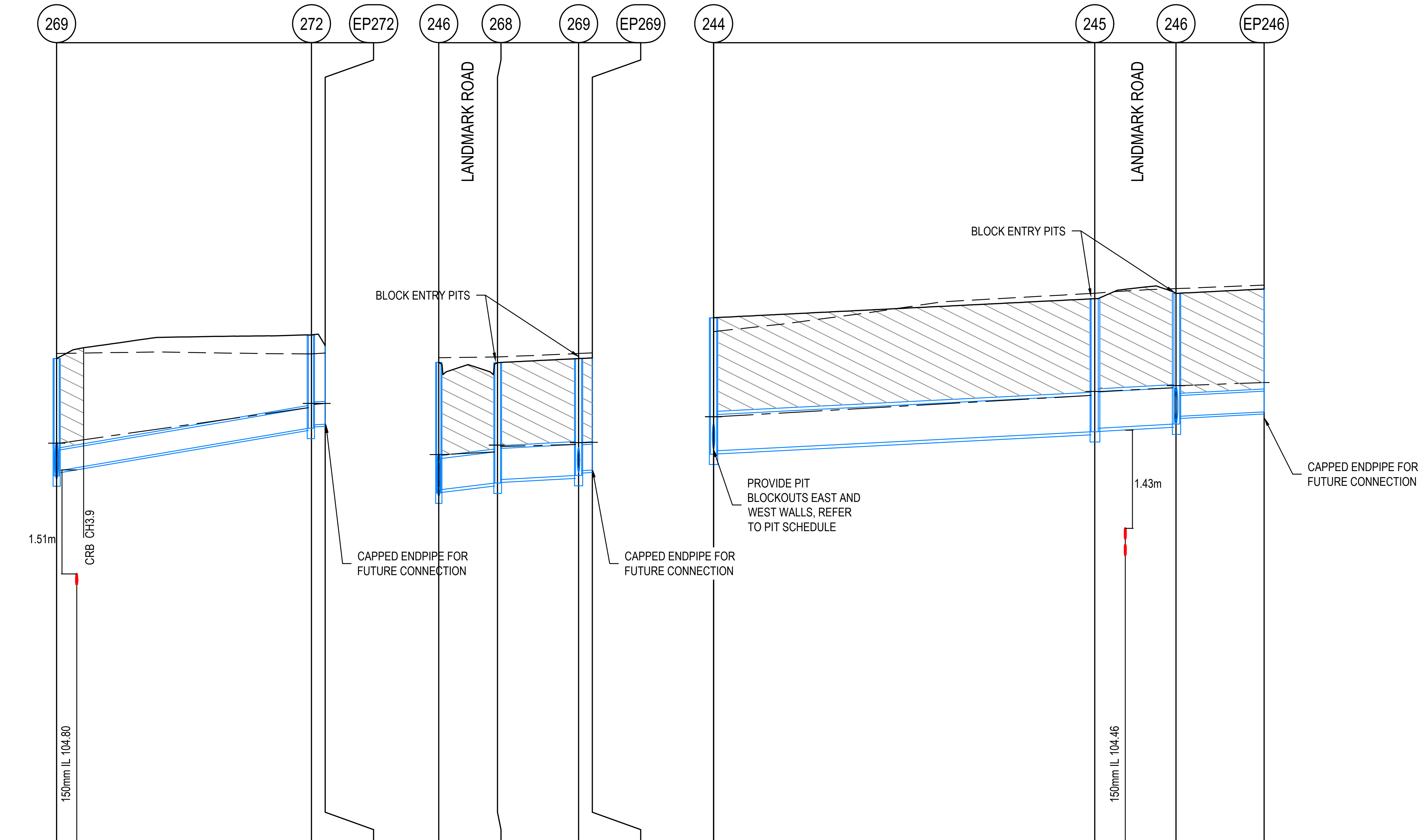
▨	CRUSHED ROCK BACKFILL CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH MELTON CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB

LEGEND

— — — — —	EXISTING SURFACE
————	DESIGN SURFACE
————	DRAINAGE PIPE/PIT
— — — — —	EXISTING DRAINAGE PIPE/PIT
—— – ——	HYDRAULIC GRADE LINE
▨	CRUSHED ROCK BACKFILL

NOTES

1. 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.
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.



	269 – 272	272 – EP272
DESIGN FLOW (m3/s)	0.048	0.048
CAPACITY (m3/s)	0.125	0.068
AT GRADE VELOCITY (m/s)	1.77	0.97
NOMINAL PIPE SIZE (mm)	300Ø	300Ø
PIPE TYPE	RCP	RCP
GRADE	1 in 60.1	1 in 200
(Reach Length)	(36.90)	(2.00)

DATUM 99.0

DEPTH TO INVERT	1.70	1.62	1.35	1.30	1.14
HYDRAULIC GRADE LINE	106.82	106.85	107.36	107.42 107.41	107.42
INVERT LEVEL	106.37	106.49	107.06	107.11	107.12
FINISHED SURFACE LEVELS	108.07		108.41		108.26
EXISTING SURFACE LEVEL	108.15		108.14		108.15
CHAINAGE	0.00	2.90	36.90		38.90

	246 – 268	268 – 269	269 – EP269
DESIGN FLOW (m3/s)	0.136	0.134	0.080
CAPACITY (m3/s)	0.302	0.202	0.124
AT GRADE VELOCITY (m/s)	1.9	1.27	1.12
NOMINAL PIPE SIZE (mm)	450Ø	450Ø	375Ø
PIPE TYPE	RCP	RCP	RCP
GRADE	1 in 88.9	1 in 200	1 in 200
(Reach Length)	(8.50)	(11.75)	(2.00)

DATUM 99.0

DEPTH TO INVERT	1.89	1.84	1.74	1.69	1.69	1.62	1.62
HYDRAULIC GRADE LINE	106.65	106.68	106.72	106.82 106.80	106.83	106.86	106.86
INVERT LEVEL	106.13	106.18	106.27	106.32	106.38	106.45	106.46
FINISHED SURFACE LEVELS	108.02		108.01		108.07		108.08
EXISTING SURFACE LEVEL	108.09		108.10		108.15		108.16
CHAINAGE	0.00		8.50		20.25		22.25

	244 – 245	245 – 246	246 – EP246
DESIGN FLOW (m3/s)	0.213	0.195	0.057
CAPACITY (m3/s)	0.304	0.310	0.068
AT GRADE VELOCITY (m/s)	1.41	1.43	0.97
NOMINAL PIPE SIZE (mm)	525Ø	525Ø	300Ø
PIPE TYPE	RCP	RCP	RCP
GRADE	1 in 200	1 in 193	1 in 200
(Reach Length)	(55.20)	(11.78)	(12.75)

DATUM 98.0

DEPTH TO INVERT	1.98	1.93	1.93	1.88		1.89	1.78	1.78
HYDRAULIC GRADE LINE	106.21	106.23	106.54	106.60		106.65	106.68	106.73
INVERT LEVEL	105.69	105.74	106.01	106.06 106.09	106.09	106.13	106.24	106.30
FINISHED SURFACE LEVELS	107.66		107.94			108.02		108.08
EXISTING SURFACE LEVEL	107.46		108.02			108.09		108.14
CHAINAGE	73.53		128.73	133.16	133.16	140.52		153.27

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	SEWER CLEARANCE ADDED	AM	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1

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Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-17	17 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-17.dwg PRINTED BY: AM13398 on 24/08/2020 at 07:10:16 PM

NOTES

1. 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.
2. ALL DRAINAGE PIPES TO BE RUBBER RING BELLED SOCKET JOINT TYPE (RRJ).
3. ALL DRAINAGE PIPES SHALL BE CLASS 2 RCP, UNLESS OTHERWISE NOTED.
4. WHERE PITS DROP LESS THAN 50mm, THE PIT FLOOR MUST BE SHAPED TO MATCH THE LOWER HALF OF THE PIPE.

PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		STD DWG	REMARKS
NAME	TYPE	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH		
EX 26	ENDPIPE			375	105.52	375	105.52	107.446	1.926		CONNECT TO EXISTING ENDPIPE
332	SINGLE SIDE ENTRY PIT GRATED	600	900	300	105.843	375	105.793	107.719	1.926	EDCM 601	
				300	105.843						
333	SINGLE SIDE ENTRY PIT GRATED	600	900	300	106.438	300	106.388	108.075	1.687	EDCM 601	
				300	106.438						
334	ENDPIPE	600	900	300	106.598	300	106.598	108.281	1.683		CAPPED ENDPIPE FOR FUTURE CONNECTION
EX 27	ENDPIPE			300	105.637	300	105.637	0	2.059		CONNECT TO EXISTING ENDPIPE
336	JUNCTION PIT	600	900	300	106.365	300	106.315	107.9	1.586	EDCM 605	
337	JUNCTION PIT	600	900	225	107.11	300	107.06	108.322	1.263	EDCM 605	
338	JUNCTION PIT	600	900			225	107.625	108.579	0.954	EDCM 605	
339	SINGLE SIDE ENTRY PIT GRATED	600	900			300	106.02	107.722	1.702	EDCM 601	
340	SINGLE SIDE ENTRY PIT GRATED	600	900			300	106.523	108.078	1.555	EDCM 601	
285	SINGLE SIDE ENTRY PIT GRATED	900	900	375	105.926	675	105.776	107.941	2.165	EDCM 601 & 607	HAUNCHED TO 600x900
				600	105.826						
294	SINGLE SIDE ENTRY PIT GRATED	600	900	375	106.037	375	105.987	107.881	1.894	EDCM 602	
				300	106.037						
342	SINGLE SIDE ENTRY PIT GRATED	600	900	300	106.639	375	106.589	108.287	1.698	EDCM 601	
				300	106.639						
343	JUNCTION PIT	750	900	300	106.995	300	106.945	108.705	1.76	EDCM 605	
344	SINGLE SIDE ENTRY PIT GRATED	750	900	300	107.09	300	107.04	108.703	1.664	EDCM 601	
345	SINGLE SIDE ENTRY PIT GRATED	600	900			300	107.175	108.748	1.573	EDCM 601	
346	SINGLE SIDE ENTRY PIT GRATED	600	900			300	106.735	108.29	1.555	EDCM 601	
286	SINGLE SIDE ENTRY PIT GRATED	900	900	300	106.271	600	105.971	108.082	2.111	EDCM 601 & 607	HAUNCHED TO 600x900
				600	106.021						
352	SINGLE SIDE ENTRY PIT GRATED	600	900	300	107.211	300	107.211	108.553	1.342	EDCM 605	
353	SINGLE SIDE ENTRY PIT GRATED	600	900			300	107.991	109.029	1.038	EDCM 605	
EX 8	ENDPIPE			675	104.995	675	104.995	107.2	2.205		CONNECT TO EXISTING ENDPIPE
280	SINGLE SIDE ENTRY PIT GRATED	1400	900	675	105.194	675	105.145	107.476	2.332	EDCM 601 & 607	HAUNCHED TO 600x900
281	DOUBLE SIDE ENTRY PIT GRATED	1400	900	675	105.306	675	105.256	107.66	2.404	~~EDCM 602 & 607~~	HAUNCHED TO 600x900
282	SINGLE SIDE ENTRY PIT GRATED	900	1050	675	105.431	675	105.381	107.748	2.368	EDCM 601 & VICROADS SD1023	HAUNCHED TO 600x900
283	SINGLE SIDE ENTRY PIT GRATED	1400	1050	675	105.464	675	105.471	107.736	2.272	EDCM 601 & VICROADS SD1023	HAUNCHED TO 600x900
				300	105.658						
284	SINGLE SIDE ENTRY PIT GRATED	1400	1050	675	105.706	675	105.656	107.932	2.276	EDCM 601 & VICROADS SD1023	HAUNCHED TO 600x900
EP286	ENDPIPE			600	106.034	600	106.033	108.096	2.063		CAPPED ENDPIPE FOR FUTURE CONNECTION
295	SINGLE SIDE ENTRY PIT GRATED	600	900			300	106.189	107.894	1.705	EDCM 601	
291	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	105.957	300	105.907	107.68	1.772	EDCM 602	
292a	JUNCTION PIT	600	900			300	106.557	108.042	1.485	EDCM 605	
269	SINGLE SIDE ENTRY PIT GRATED	750	900	300	106.449	450	106.374	108.074	1.7	EDCM 601	ENTRY PIT TO BE BLOCKED
				375	106.449						
272	JUNCTION PIT	600	900	300	107.113	300	107.063	108.414	1.351	EDCM 605	
EP272	ENDPIPE			300	107.123	300	107.123	108.261	1.138		CAPPED ENDPIPE FOR FUTURE CONNECTION
246	DOUBLE SIDE ENTRY PIT GRATED	600	1200	450	106.175	525	106.125	108.018	1.893	EDCM 602 & 607	HAUNCHED TO 600X900. ENTRY PIT TO BE BLOCKED
				300	106.238						
268	DOUBLE SIDE ENTRY PIT GRATED	750	900	450	106.315	450	106.265	108.015	1.75	EDCM 602	ENTRY PIT TO BE BLOCKED
EP269	ENDPIPE			375	106.463	300	106.463	108.084	1.621		CAPPED ENDPIPE FOR FUTURE CONNECTION
244	JUNCTION PIT	900	900	525	105.738	525	105.688	107.665	1.977	EDCM 601 & 607	HAUNCHED TO 600X900 - TO BE CONVERTED TO GEP IN FUTURE STAGE 525Ø BLOCKOUT EAST WALL IL 107.665 300Ø BLOCKOUT SOUTH WALL IL 105.8
				300	105.8						
245	SINGLE SIDE ENTRY PIT GRATED	900	1200	525	106.064	525	106.014	107.941	1.927	EDCM 601 & VICROADS SD1023	HAUNCHED TO 600X900. ENTRY PIT TO BE BLOCKED
EP246	ENDPIPE			300	106.301	300	106.301	108.082	1.78		CAPPED ENDPIPE FOR FUTURE CONNECTION
267	SINGLE SIDE ENTRY PIT GRATED	600	900			300	106.113	107.669	1.556	EDCM 601	

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	06.05.20	PIT REMOVED	AK	LV
C	20.08.20	PITS RE-SIZED	AM	LV
D	14.09.20	UPDATED REFERENCE TO STANDARD DRAWINGS	AM	LV
E	01.10.20	UPDATED REFERENCE TO STANDARD DRAWINGS	AM	LV

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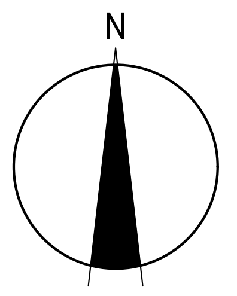
TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 5 10 20
Scale 1:500
SCALE AS SHOWN AT A1



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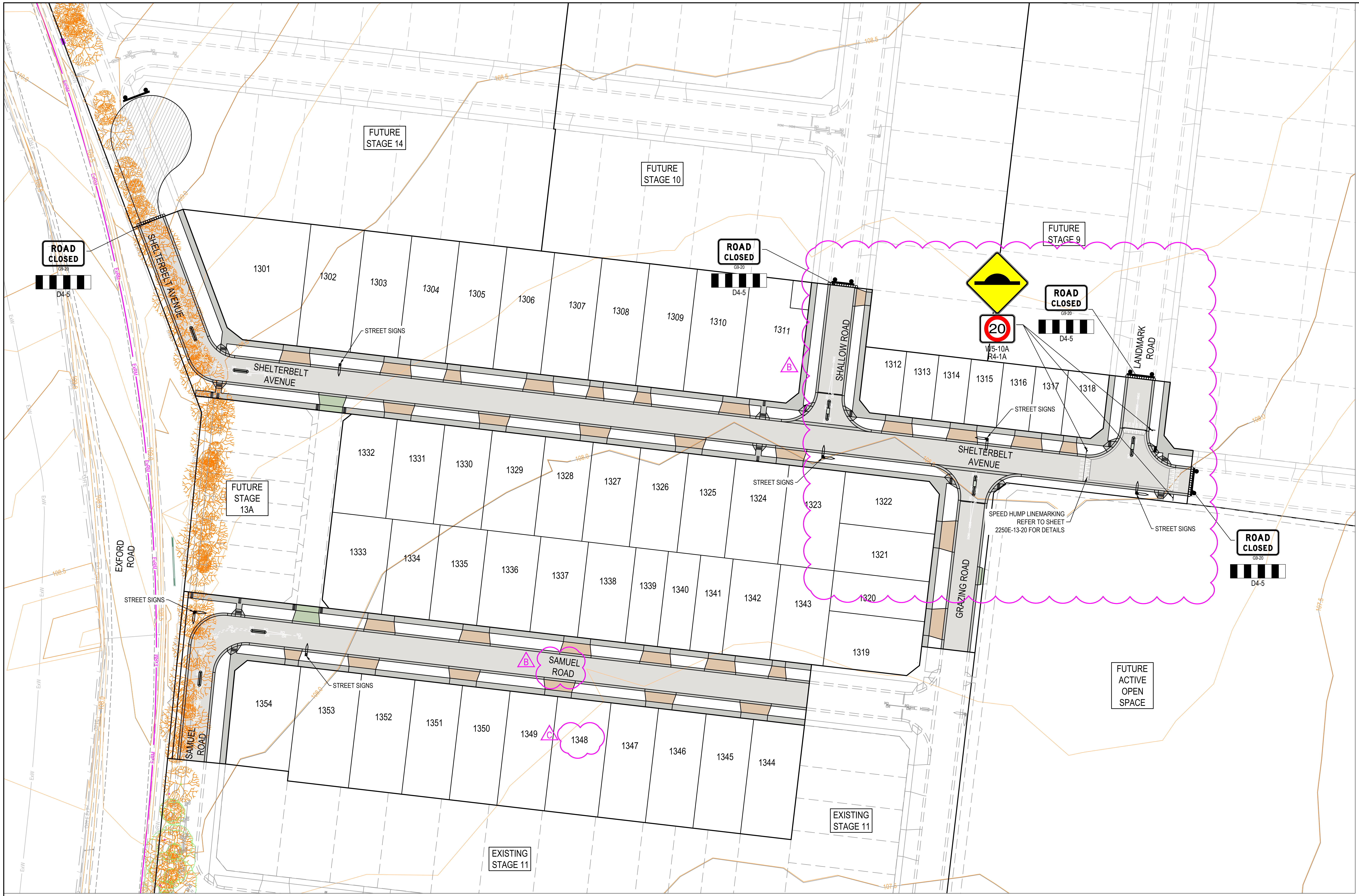
Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Pit Schedule

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-18	18 of 22	E

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-18.dwg PRINTED BY: AM13398 on 01/10/2020 at 04:05:29 PM



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-13-85

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

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	20.08.20	LINEWORK CHANGED AND ROAD RENAMED	AM	LV
C	02.09.20	LOT NUMBER CORRECTED	AM	LV
D	14.09.20	SIGN REMOVED	AM	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 2.5 5 10
Scale 1:250

0 5 10 20
Scale 1:500

SCALE AS SHOWN AT A1

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SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-19	19 of 22	D

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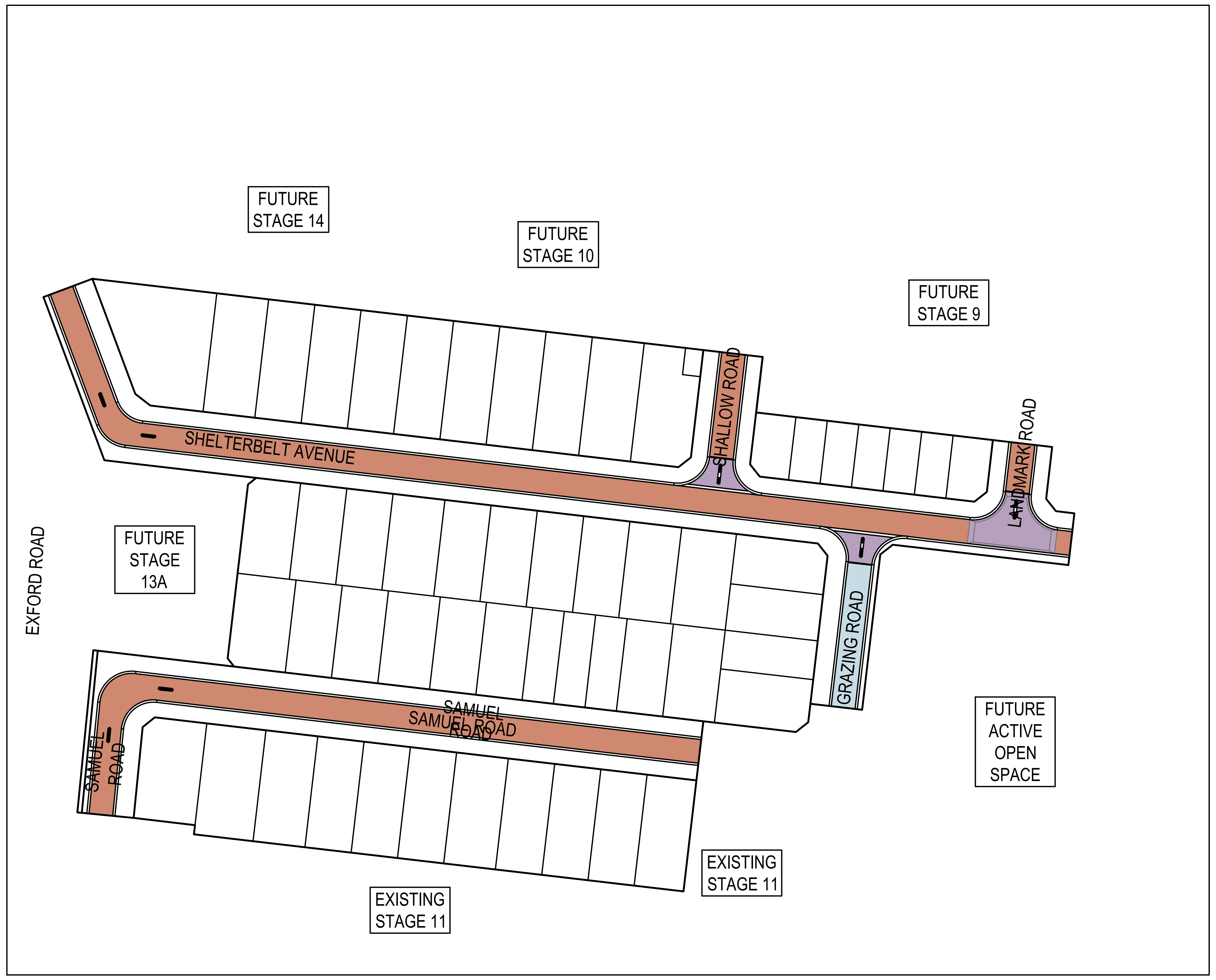
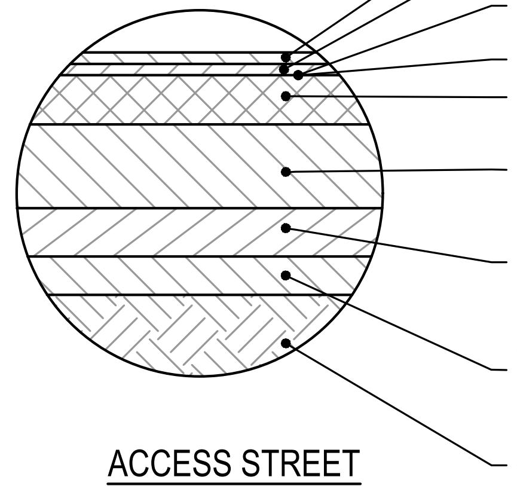


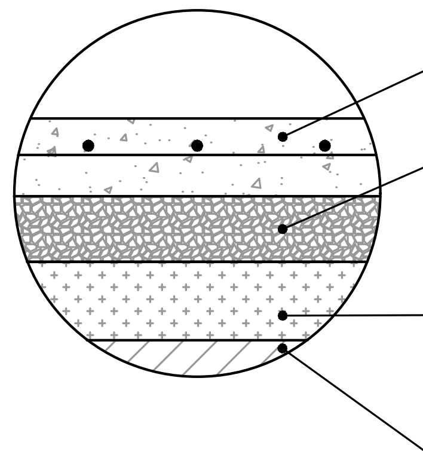


30mm SIZE 10 TYPE N ASPHALT (WEARING)
30mm SIZE 10 TYPE N ASPHALT (BASE)
SAMI SEAL (10mm) - S18RF - APPLICATION RATE OF GREATER THAN OR EQUAL 1.8 LITRES/m²
PRIME OR PRIMESEAL
130mm COMPACTED DEPTH OF 20mm NOM. SIZE CLASS 2 FCR TO 100% CHARACTERISTIC MODIFIED COMPACTION
190mm COMPACTED DEPTH OF 20mm NOM. SIZE CLASS 3 FCR TO 98% CHARACTERISTIC MODIFIED COMPACTION
150mm TYPE A CAPPING LAYER. SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% CHARACTERISTIC MODIFIED COMPACTION AS PER EDCM STANDARD.
150mm VICROADS TYPE A CONSTRUCTION LAYER. CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE CAPPING LAYER.
SUBGRADE CLAY AS FOUND (IF REQUIRED, SUBGRADE IMPROVEMENT WORKS TO BE UNDERTAKEN TO COUNCIL'S SATISFACTION CRB = 2.5%)

ACCESS STREET
(UPPER RANGE 300-1,000 veh/day)
PAVEMENT COMPOSITION

690mm DEPTH

🟫



200mm THICK 32MPa CONCRETE WITH SL82 MESH LOCATED 50mm FROM TOP. MESH TO HAVE 50mm COVER ALL EDGES.
100mm COMPACTED DEPTH SIZE 20 CLASS 3 CRUSHED ROCK TO 100% CHARACTERISTIC MODIFIED COMPACTION.
TYPE A CAPPING LAYER. SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% CHARACTERISTIC MODIFIED COMPACTION AS PER EDCM STANDARD. 150mm DEPTH FOR CONCRETE LANEWAYS. DEPTH VARIES FOR INTERSECTION CONCRETE TREATMENT - DEPTH NEEDS TO BE INCREASED TO ENSURE THE TOTAL DEPTH OF THE SURROUNDING PAVEMENTS ARE UNIFORM.
150mm VICROADS TYPE A CONSTRUCTION LAYER . CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE CAPPING LAYER.

INTERSECTION CONCRETE
TREATMENT

DEPTH VARIES

🟪

INTERSECTION TREATMENT
THE INTERSECTION TREATMENT IS TO BE WATER WASHED EXPOSED AGGREGATE CONCRETE, USING THE BACCHUS MARSH AGGREGATE FROM HANSON WITH GREY CEMENT.

NOTE
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY GROUND SCIENCE PTY LTD (Aug 2018). 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 THE REQUIREMENTS SHOWN ARE TO BE NOTIFIED TO THE SUPERINTENDENT BEFORE PROCEEDING.

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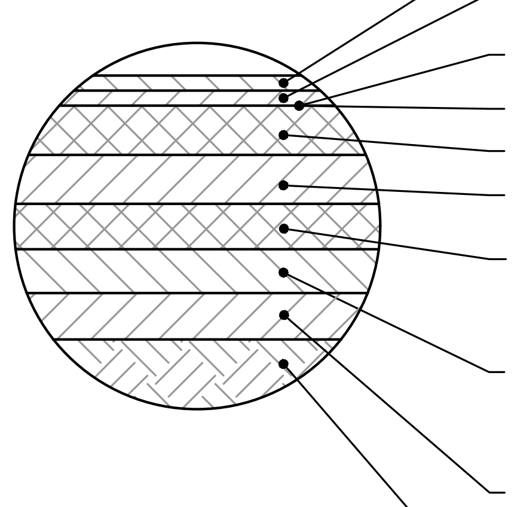


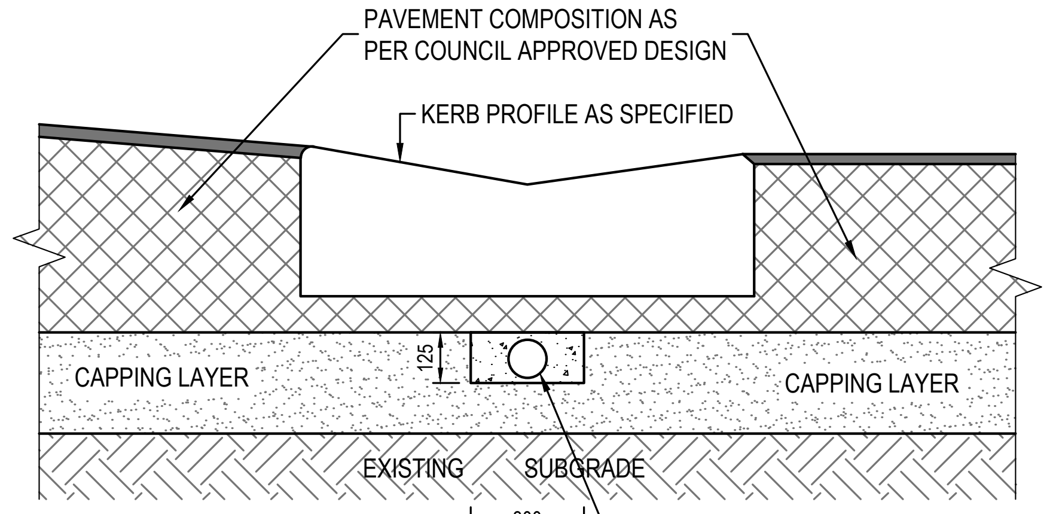
30mm SIZE 14 TYPE N ASPHALT (WEARING)
30mm SIZE 14 TYPE N ASPHALT (BASE)
SAMI SEAL (10mm) - S18RF - APPLICATION RATE OF GREATER THAN OR EQUAL 1.8 LITRES/m²
PRIME OR PRIMESEAL
130mm COMPACTED DEPTH OF 20mm NOM. SIZE CLASS 2 FCR TO 100% CHARACTERISTIC MODIFIED COMPACTION
120mm COMPACTED DEPTH OF 20mm NOM. SIZE CLASS 3 FCR TO 98% CHARACTERISTIC MODIFIED COMPACTION
100mm COMPACTED DEPTH OF 20mm NOM. SIZE CLASS 4 FCR TO 98% CHARACTERISTIC MODIFIED COMPACTION
150mm TYPE A CAPPING LAYER. SELECT GRANULAR MATERIAL WITH A MINIMUM SOAKED CBR OF 10% COMPACTED TO AT LEAST 98% CHARACTERISTIC MODIFIED COMPACTION AS PER EDCM STANDARD.
150mm VICROADS TYPE A CONSTRUCTION LAYER . CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE CAPPING LAYER.
SUBGRADE CLAY AS FOUND (IF REQUIRED, SUBGRADE IMPROVEMENT WORKS TO BE UNDERTAKEN TO COUNCIL'S SATISFACTION CRB = 2.5%)

ACCESS STREET LEVEL 1
(UPPER RANGE 1,000 -2000veh/day)
PAVEMENT COMPOSITION

720mm DEPTH

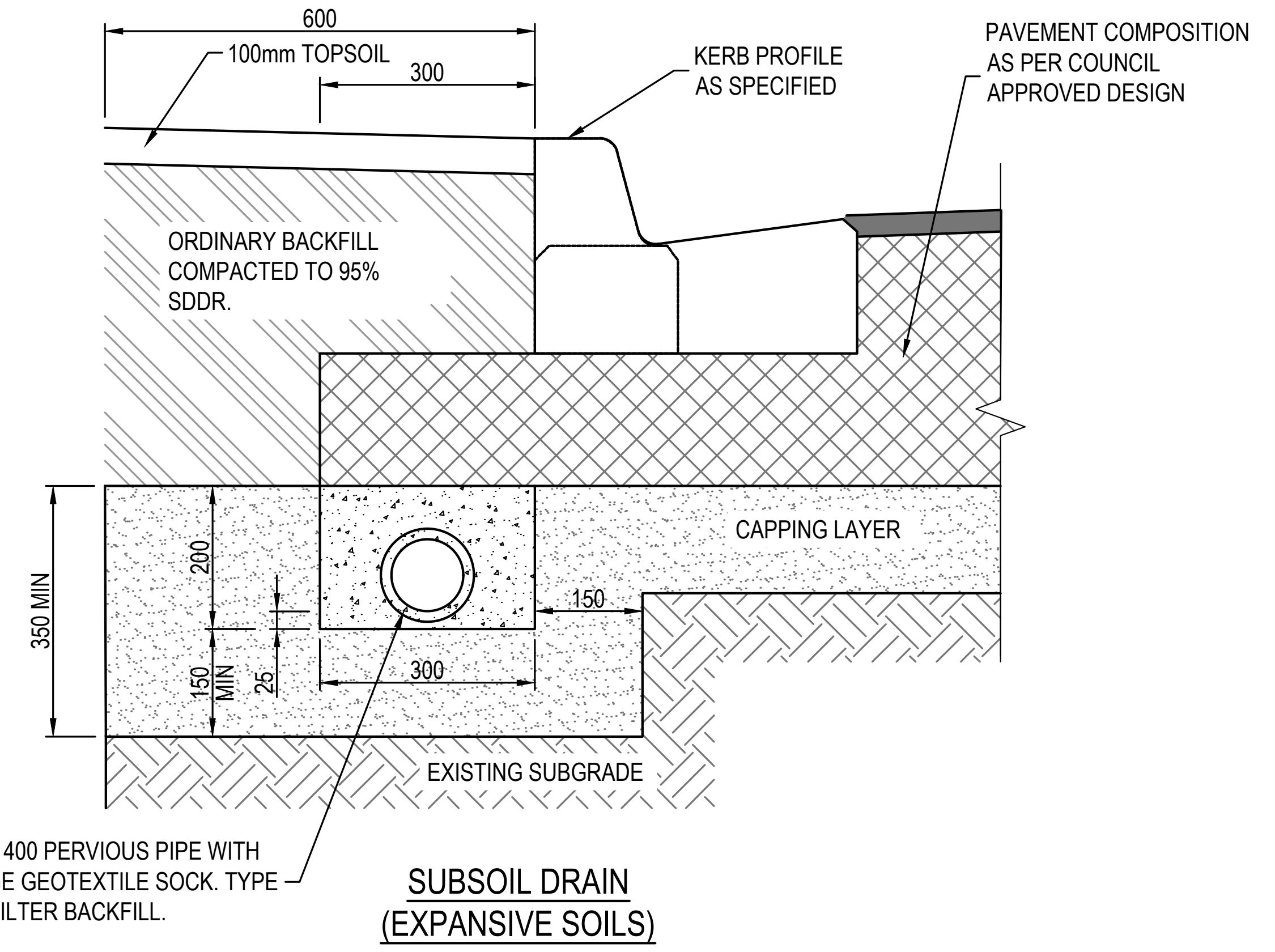
🟦

NOTES:
1. AGRICULTURAL DRAIN TO BE LOCATED WITHIN THE CAPPING LAYER AS SHOWN
2. B1 AND ES ALTERNATIVE KERB PROFILES SHOWN DASHED



AG DRAIN (NO FINES)

N.T.S

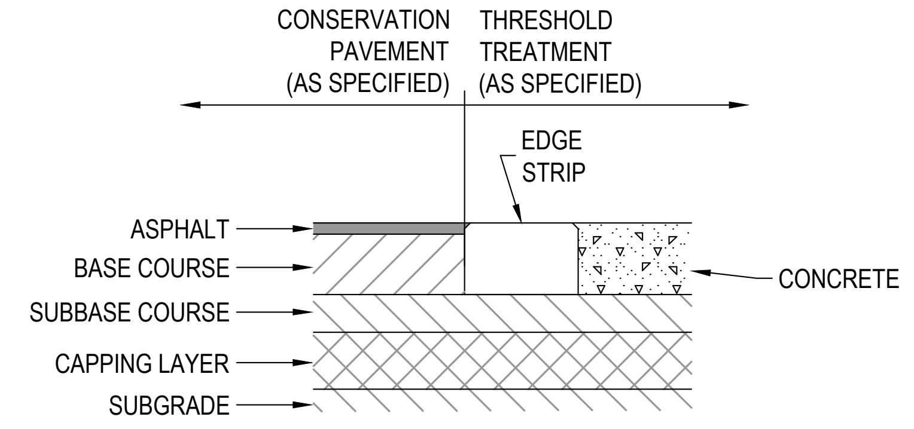


SUBSOIL DRAIN
(EXPANSIVE SOILS)

NOT TO SCALE
REFER GAA STD DWG EDCM 202

AG DRAIN DETAILS

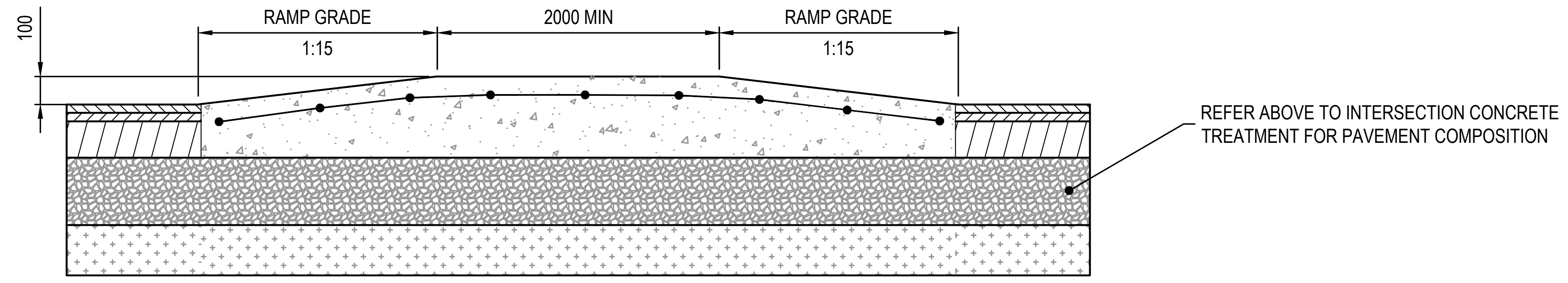
NOT TO SCALE



JOINT DETAIL FOR ROAD PAVEMENT &
INTERSECTION THRESHOLD TREATMENT

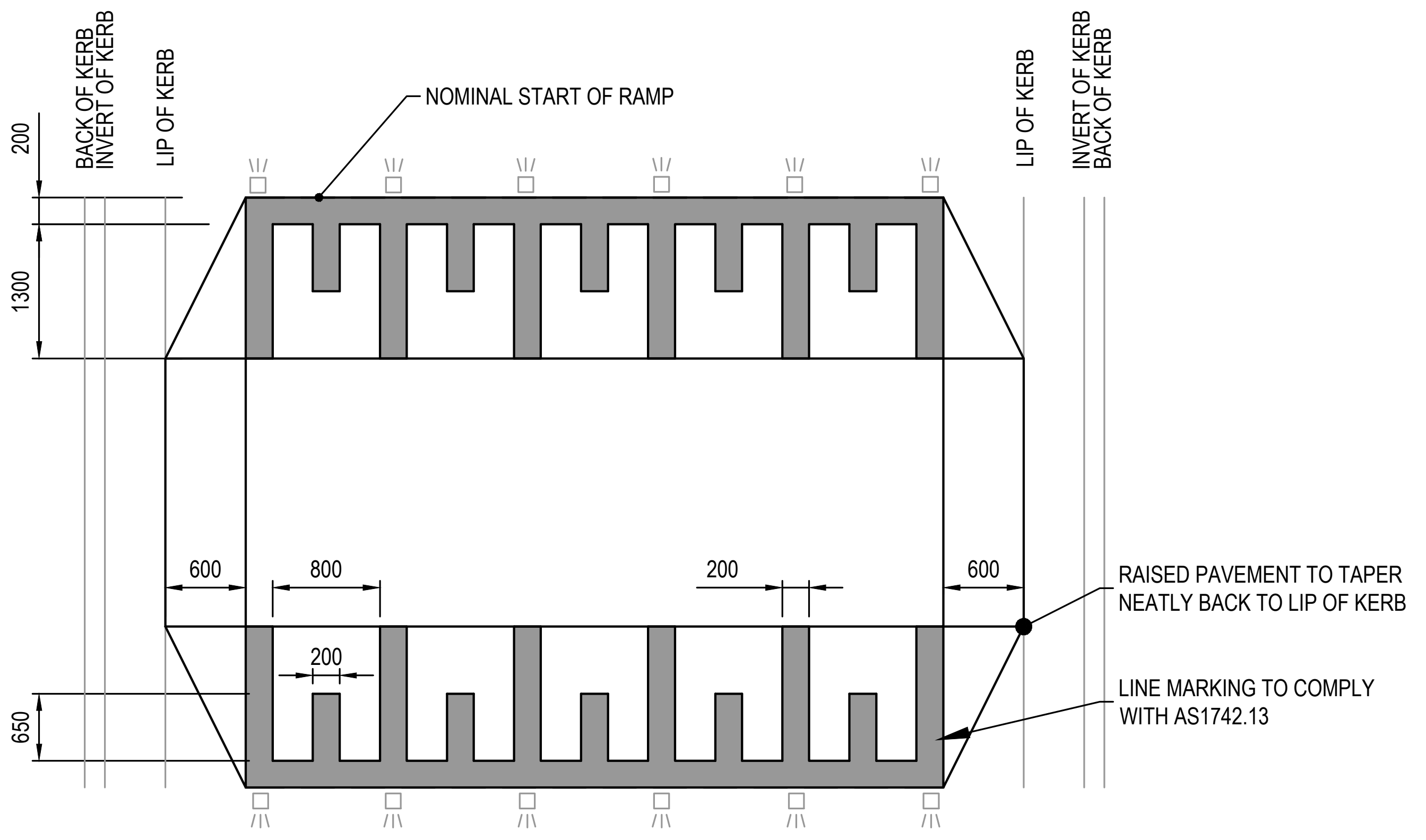
NOT TO SCALE

CAPPING LAYER PROPERTIES							
PHYSICAL PROPERTIES			LIMITS OF GRADING			PI x %> 425µm	PLASTICITY INDEX
CBR (min)%	SWELL (max)%	PERMEABILITY (max) m/s	40mm	4.75mm	75µm	1000 (max)	25 (max)
8	1.5	5 x 10^{-9}	100	60 - 80	10 - 40		



FLAT TOP RAISED PAVEMENT
INTERSECTION TREATMENT

NOT TO SCALE



LINE MARKING FOR RAISED PAVEMENTS

NOT TO SCALE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
C	14.09.20	PAVEMENT COMPOSITION UPDATED	AM	LV
D	30.09.20	PAVEMENT COMPOSITION UPDATED	AM	LV
E	01.10.20	PAVEMENT COMPOSITION UPDATED	AM	LV
F	08.10.20	PAVEMENT COMPOSITION DETAIL UPDATED	AK	LV

SUBJECT TO APPROVAL

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TITLE	NAME
DRAFTER	N.Green
DESIGNER	H.Ehsani
CHECKED	L.Vieyra
AUTHORISED	N.Hollow
REFERENCE No. 1	
REFERENCE No. 2	

0 10 20 40
Scale 1:1000
SCALE AS SHOWN AT A1

N

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SEVENTH BEND

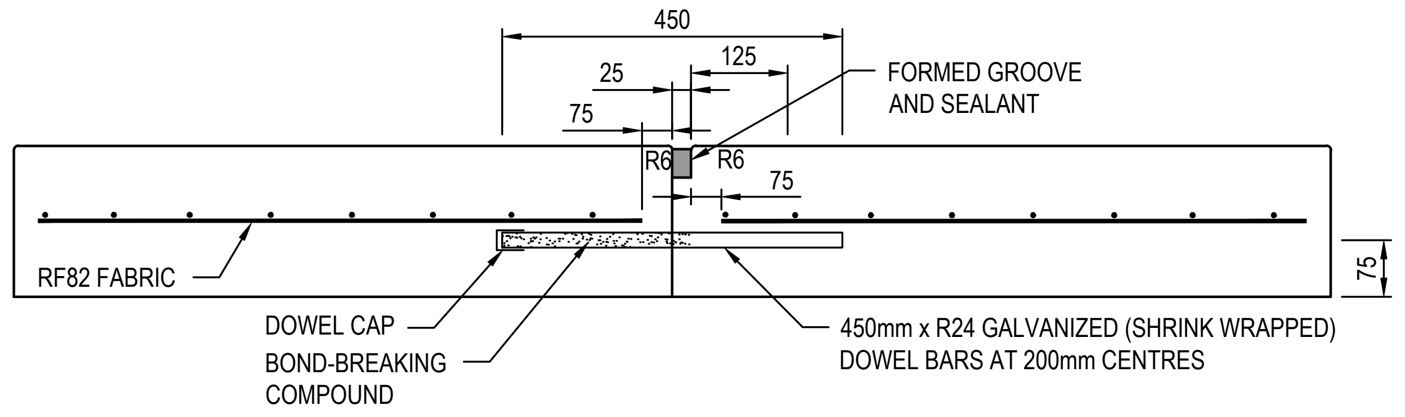
Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Pavement Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-20	20 of 22	F

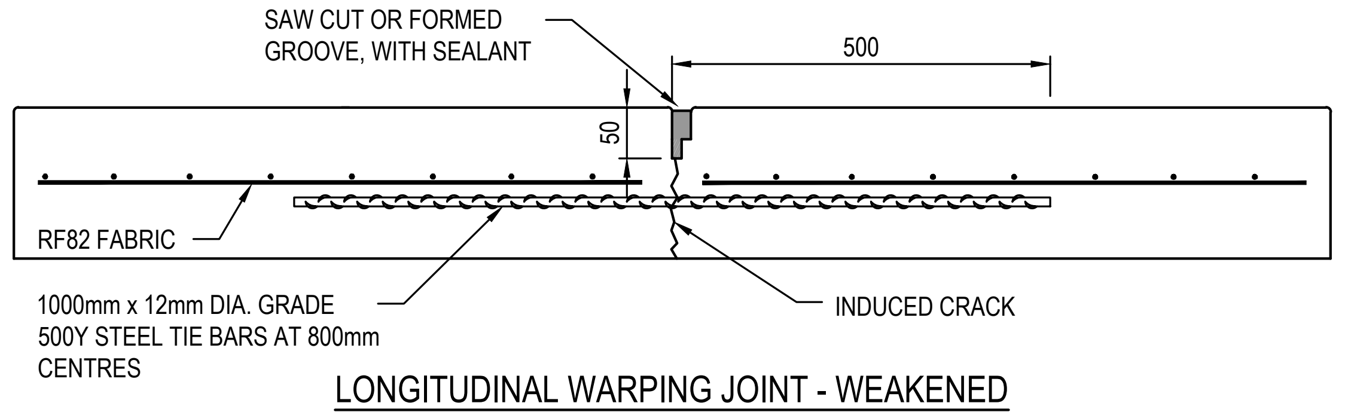
DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-20.dwg PRINTED BY: AK13343 on 12/10/2020 at 10:47:23 AM

JOINT DETAIL NOTES:

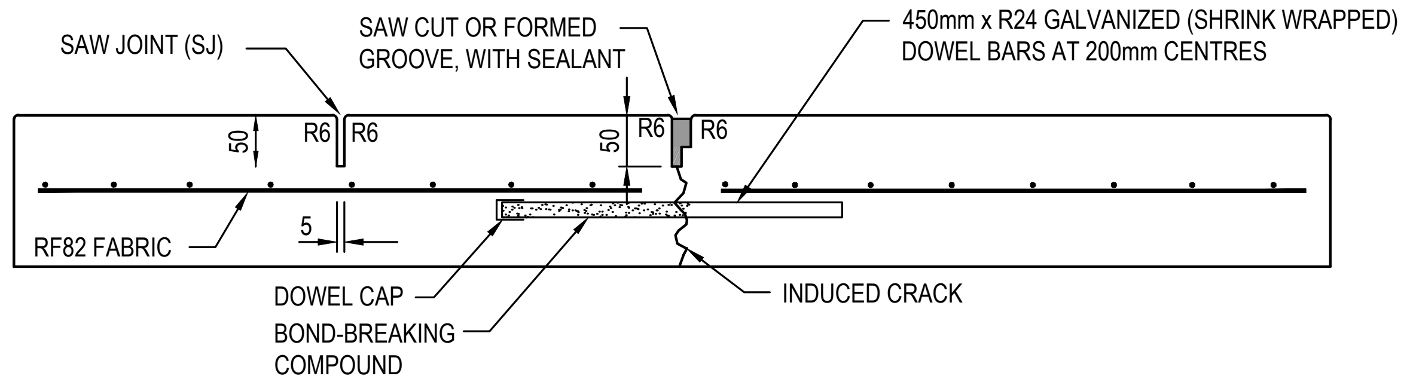
1. SAW JOINTS ARE TO BE PLACED AT A MAXIMUM 5m SPACING AT INTERSECTIONS AND CONSTRUCTED 18-24 HOURS AFTER POURING.
2. TRANSVERSE/CONTRACTION JOINTS ARE TO BE PLACED AT A MAXIMUM SPACING OF 12m.
3. ISOLATION JOINTS ARE TO BE PLACED AROUND PITS.
4. ALL JOINTS SHALL BE LOCATED AND SPACED IN ACCORDANCE WITH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



TRANSVERSE CONTRACTION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT (DJ)



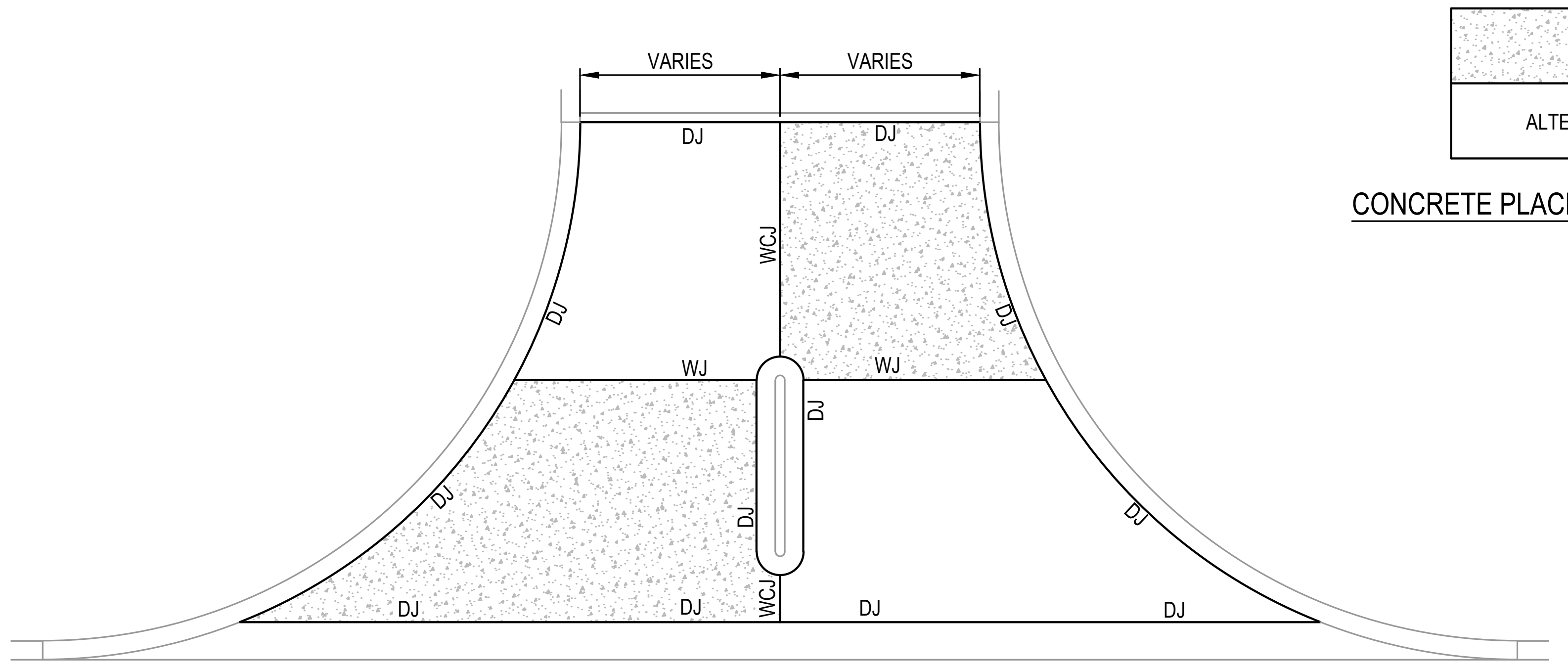
LONGITUDINAL WARPING JOINT - WEAKENED PLANE JOINT (WJ)



TRANSVERSE CONTRACTION JOINT
SAW JOINT (SJ) AND TRANSVERSE CONTRACTION JOINT (CJ)

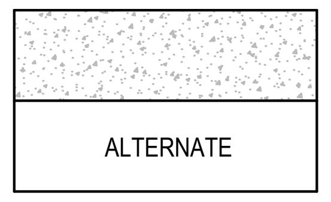
CONCRETE JOINTING DETAILS

NOT TO SCALE

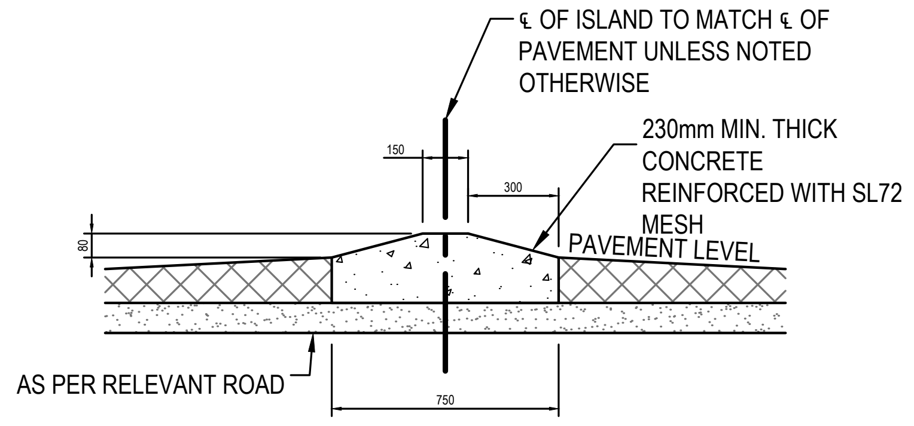


TYPICAL INTERSECTION CONCRETE PAVEMENT DETAIL

SCALE 1:100



CONCRETE PLACEMENT SEQUENCE



SI3 ISLAND - TYPICAL CROSS SECTION

NOT TO SCALE
REFER TO CITY OF MELTON STD DWG MCC307

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DFT	APPROVAL
A	03.04.20	ISSUED TO COUNCIL FOR APPROVAL	HE/NG	NH
B	14.09.20	POST AND CABLE FENCING DETAIL REMOVED	AM	LV

SUBJECT TO APPROVAL

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DRAFTER	N.Green
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CHECKED	L.Vieyra
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SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
General Notes and Details

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-21	21 of 22	B

DWG PATH: V:_Vault\Projects_Urban\2250E-Exford Road, Melton\2250E-13\Dwgs\2250E-13-21.dwg PRINTED BY: AM13398 on 14/09/2020 at 02:44:51 PM

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 ADDRESED 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

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SEVENTH BEND

Seventh Bend - Stage 13
Melton City Council
Road and Drainage
Safety In Design

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
342 K7	2250E-13-85	22 of 22	A

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