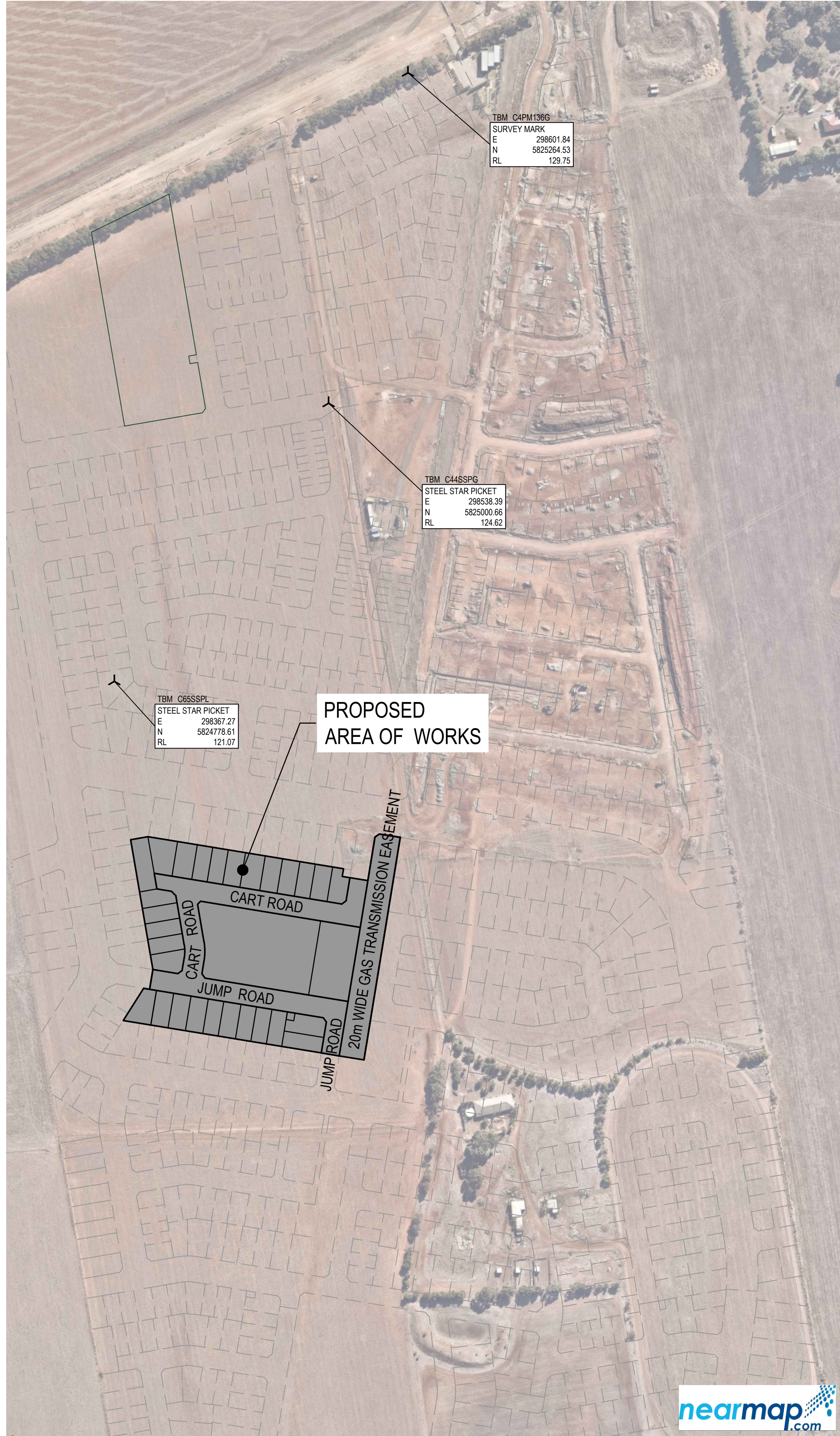


Westwood Estate

Stage 20



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GAS AND FUEL NOTES

CONDITIONS FOR WORKS NEAR TRANSMISSION PIPELINES

DAMAGE TO A TRANSMISSION PIPELINE COULD RESULT IN

- GAS ESCAPING AT PRESSURES UP TO 10,000 KPA.
- LOSS OF GAS TO THOUSANDS OF CONSUMERS.
- POSSIBLE EXPLOSION AND FIRE.
- SUBSTANTIAL REPAIR AND GAS RESTORATION LIABILITY DAMAGE COSTS TO THE AUTHORITY OR PRINCIPAL RESPONSIBLE.

CONDITIONS
TO DETERMINE THE EXACT LOCATION OF A PIPELINE PRIOR TO COMMENCEMENT OF DESIGN WORK AND/OR CONSTRUCTION, HAND EXCAVATED PROVINGS MUST BE CARRIED OUT AND ONLY UNDER THE SUPERVISION OF A CORPORATION INSPECTOR.

A MINIMUM 48 HOURS NOTICE OF INTENDED PROVINGS AND /OR CONSTRUCTION MUST BE GIVEN TO OUR PIPELINES SECURITY OFFICE, DANDENONG, TELEPHONE (03)9797 5263, TO ENABLE ARRANGEMENTS TO BE MADE TO HAVE A CORPORATION INSPECTOR ON SITE DURING WORK. NO CHARGE IS MADE FOR THIS SERVICE.

NO MECHANICAL EQUIPMENT IS TO BE USED WITHIN 1 METRE OF THE PIPELINE EVEN AFTER THE PIPELINE HAS BEEN PROVEN (EXCEPT FOR BORING OPERATIONS).

WHEN A BORE IS TO PASS UNDER OR OVER A PIPELINE, HAND EXCAVATION ADJACENT TO THE PIPELINE MUST FIRST BE MADE 1 METRE ON THE SIDE FROM WHICH THE BORE WILL APPROACH. THE AUGER IS TO BE CHECKED WHEN IT REACHES THIS EXCAVATION TO ENSURE THAT THE REQUIRED MINIMUM CLEARANCE IS MAINTAINED BETWEEN THE BORE AND THE PIPELINE.

ANY BLASTING SHOULD BE CARRIED OUT WITH EXTREME CAUTION AND ONLY IN THE PRESENCE OF A CORPORATION INSPECTOR.

BLASTING RESTRICTIONS MUST BE IN ACCORDANCE WITH SAA EXPLOSIVES CODE 2187, AND ONLY MODIFIED AFTER EXPLICIT AGREEMENT WITH A CORPORATION ENGINEER.

MINIMUM CLEARANCES FOR DESIGN PURPOSES AND/OR CONSTRUCTION

- ALL WORKS SHALL COMPLY TO APA DOCUMENT "S80-POL-L-0001 REV2.0 STANDARD CONDITIONS FOR WORKS NEAR APA GAS TRANSMISSION PIPELINES"

- NO VIBRATION INDUCING WORKS IS ALLOWED WITHIN 3m OF THE GAS TRANSMISSION PIPE LINES.
- EXCAVATION ABOVE THE GAS PIPELINE SHALL BE CONDUCTED PER APA PROCEDURE 320-PR-OM-0067 REV.2

SURVEY CONTROL POINTS				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C4PM136G	298601.84	5825264.53	129.75	SURVEY MARK
C44SSPG	298538.39	5825000.66	124.62	STEEL STAR PICKET
C65SSPL	298367.27	5824778.61	121.07	STEEL STAR PICKET

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WARNING
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DIAL 1100 BEFORE YOU DIG
www.1100.com.au

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. 2152E-020-500
ASSESS THE RISK - STAY SAFE

GENERAL NOTES (MELTON SHIRE COUNCIL)

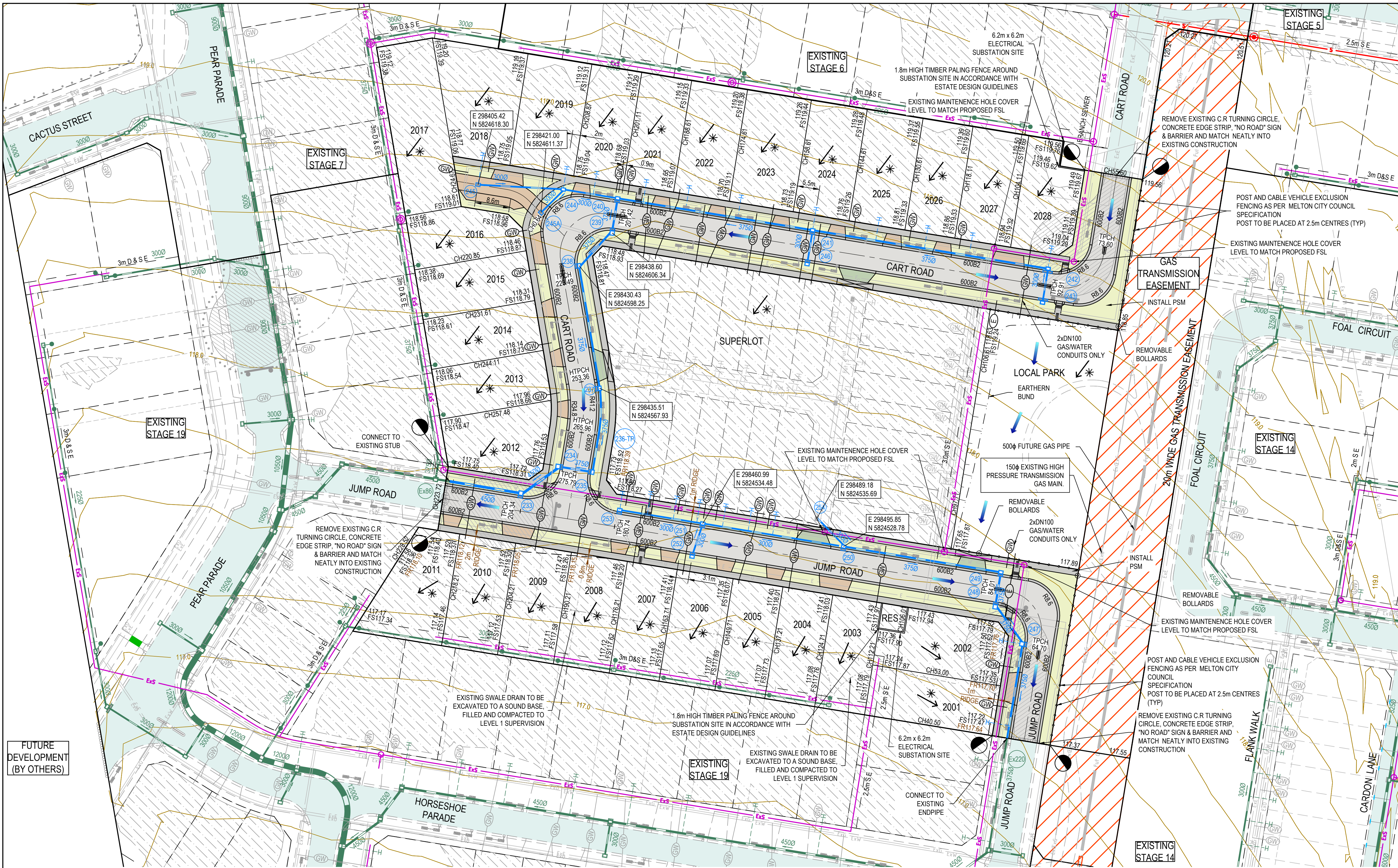
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH A.S. 4000-1992 GENERAL CONDITIONS OF CONTRACT AND CURRENT MELTON SHIRE COUNCIL SPECIFICATIONS AND EDCM ADDENDUM STANDARD DRAWINGS AND TO THE SATISFACTION OF THE SUPERVISING ENGINEER OR THEIR REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF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

GAS - STANDARD NOTES

- GAS MAINS, FITTINGS AND MARKER TAPE ARE TO BE SUPPLIED BY THE GAS AUTHORITY.
- EXCAVATION, SUPPLY AND PLACEMENT OF REQUIRED BACKFILL TO BE BY OTHERS.
- TWO WEEKS OF NOTIFICATION OF COMMENCEMENT OF EXCAVATION WORKS SHALL BE GIVEN TO THE GAS AUTHORITY.

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Quality Management - ISO 9001 Global-Mark.com.au®			PLAN OF SUB. NO.	0 5 10 20 Scale 1:500 SCALE AS SHOWN AT A1		 Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500		Westwood Estate - Stage 20 Melton City Council Road and Drainage Cover Plan & General Notes			MELWAYS REF	PROJECT / Drawing No.	SHEET No.	REVISION
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON	Quality Management - ISO 9001 Global-Mark.com.au®			PERMIT REF. NO.								356 B1	2152E-020-101	01 of 20	0



LEGEND - LAYOUT PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	EXISTING SURFACE LEVEL
	FINISHED BUILDING LINE LEVEL
	FINISHED RIDGE LINE LEVEL
	CHAINAGE
	TOP OF RETAINING WALL LEVEL
	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

ROAD LAYOUT TABLE								
ROAD NAME	ROAD 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
JUMP ROAD (LOTS 2001-2002)	14.50	6.40	7.30	7.60	600B2	600B2	4.20 W	2.70 E
JUMP ROAD (LOTS 2003-2011)	16.00	6.40	7.30	7.60	600B2	600B2	4.20 N	4.20 S
CART ROAD (ADJACENT LOT 2028)	14.50	6.40	7.30	7.60	600B2	600B2	4.20 W	2.70 E
CART ROAD (LOTS 2012-2028)	16.00	6.40	7.30	7.60	600B2	600B2	4.20 NW	4.20 S/E

SERVICES OFFSET TABLE				
ROAD NAME	GAS	WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
JUMP ROAD (LOTS 2001-2002)	1.90 W	2.40 E	1.00 E	0.40 E
JUMP ROAD (LOTS 2003-2011)	1.90 N	2.40 N	2.45 / 2.60 S	1.00 / 1.80 S
CART ROAD (LOTS 2012-2028)	1.90 NW	2.40 NW	2.45 S/E	1.80 S/E
CART ROAD (ADJACENT LOT 2028)	1.90 W	2.40 W	1.15 E	0.50 E

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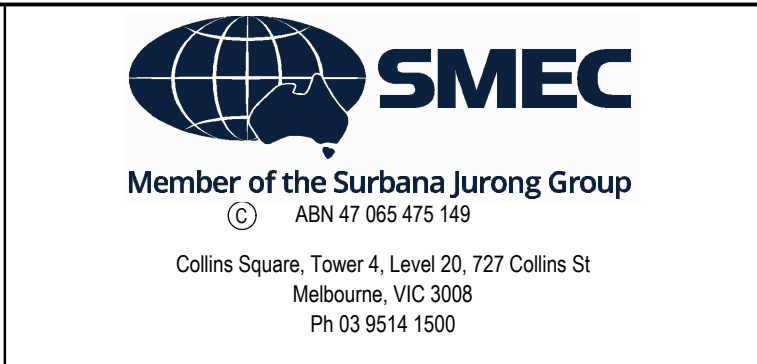
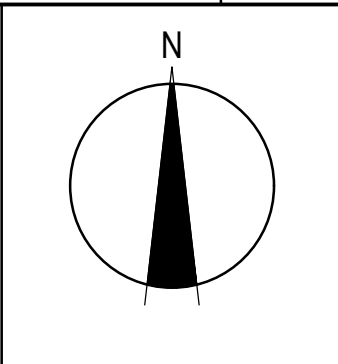
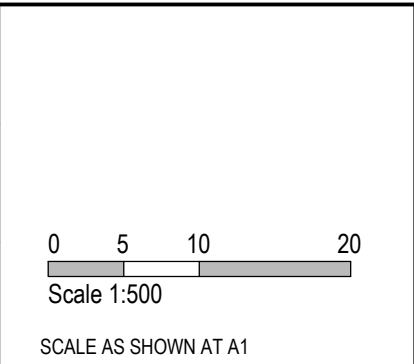
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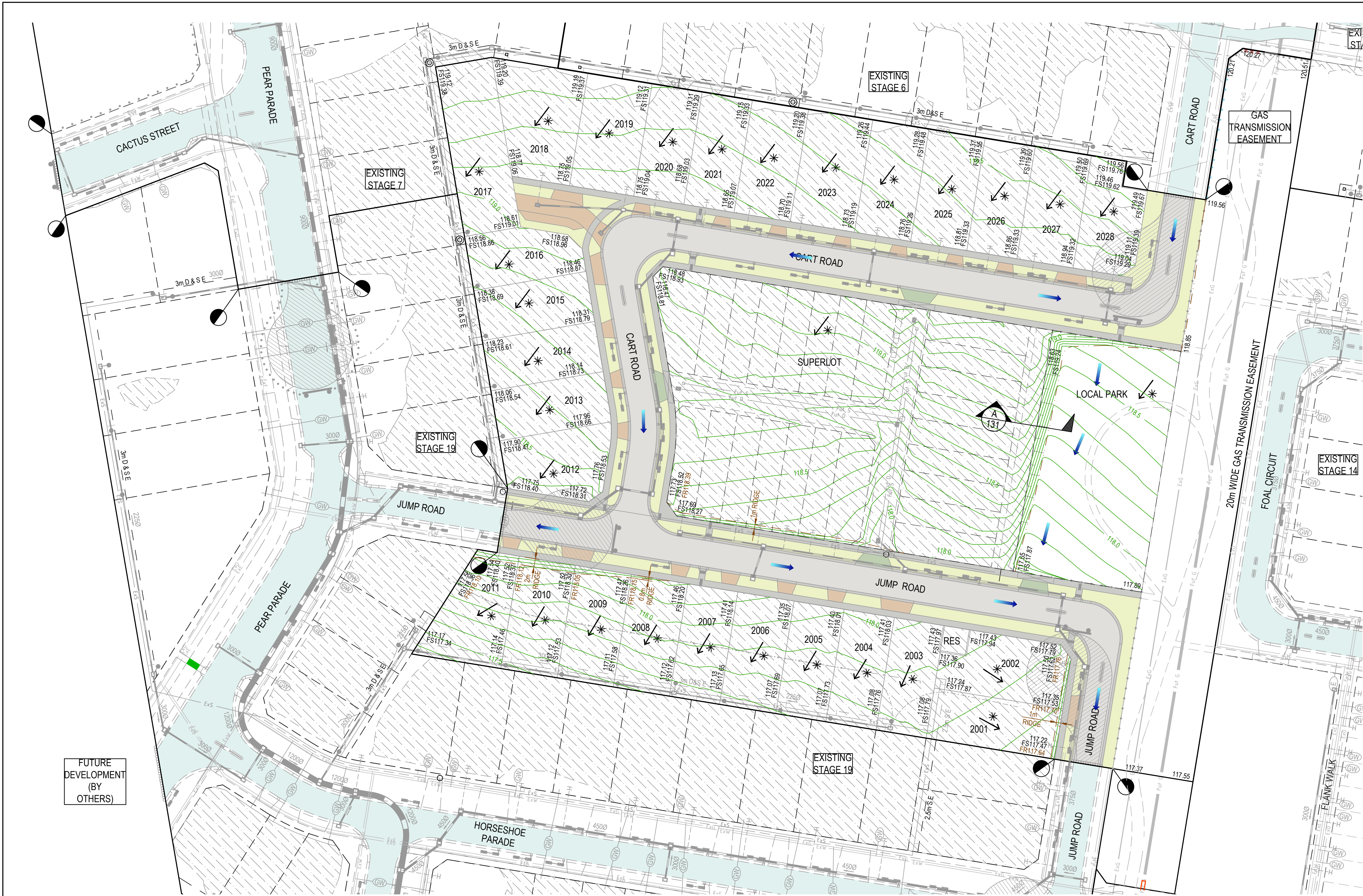
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PERMIT REF. NO.

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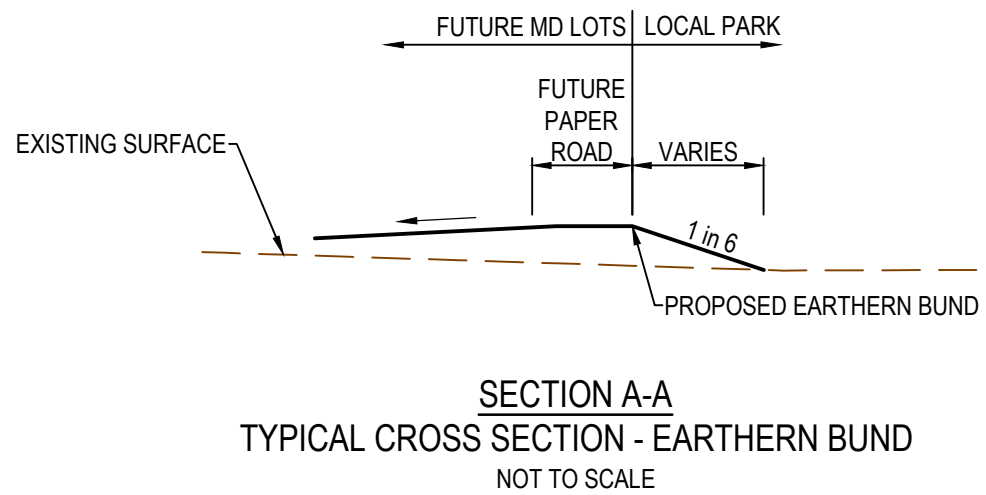


Westwood Estate - Stage 20 Melton City Council Road and Drainage Layout Plan		MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-111	SHEET No. 02 of 20	REVISION 0
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FUTURE
DEVELOPMENT
(BY
OTHERS)

LEGEND - EARTHWORKS PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SWALE DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	ELECTRICITY (U.GROUND)
	ELECTRICITY (O.HEAD)
	GAS
	TELSTRA
	OPTIC FIBRE
	WATER
	RECYCLE WATER
	AG DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SWALE DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING HOUSE DRAIN
	EXISTING ELECTRICITY (UNDER GROUND)
	EXISTING ELECTRICITY OVERHEAD
	EXISTING GAS
	EXISTING TELSTRA
	EXISTING OPTIC FIBRE
	EXISTING WATER
	EXISTING RECYCLED WATER
	EXISTING AG DRAIN
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE ELECTRICITY (UNDER GROUND)
	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	FUTURE AG DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	ZERO LOT LINES
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	TW159.00 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
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	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



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REV 0	DATE 03.11.21	AMENDMENT / REVISION DESCRIPTION ISSUED FOR CONSTRUCTION	DRAFTER C.SILVA	DESIGNER A.PERKINS	CHECKER K.CONG	APPROVER C.WILKINSON	Global Management - ISO 9001 Global-Mark.com.au®	Global Management - AS/NZS 1800 Global-Mark.com.au®	Global Management - ISO 14001 Global-Mark.com.au®	PLAN OF SUB. NO. PERMIT REF. NO.	Scale 1:500 Scale AS SHOWN AT A1		 Member of the Surlana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500		Westwood Estate - Stage 20 Melton City Council Road and Drainage Earthworks & Retaining Wall Setout Plan	MELWAYS REF 356 B1	PROJECT / Drawing No. 2152E-020-131	SHEET No. 03 of 20	REVISION 0
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PRINTED BY: CP15982 on 03/11/2021 at 11:27:18 AM
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- NOTES
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - RRPMs TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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
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0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON



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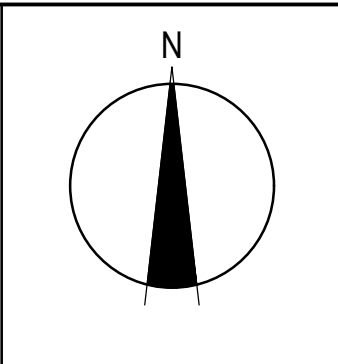
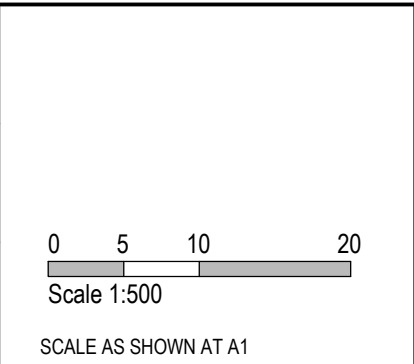
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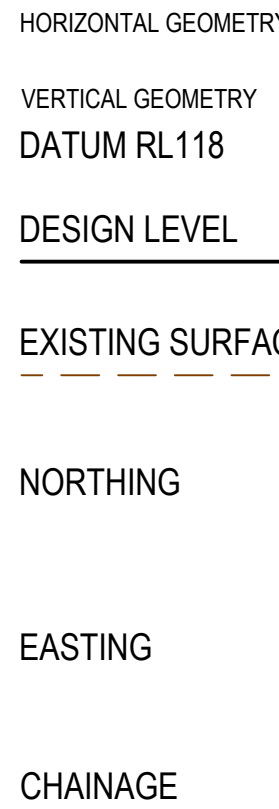
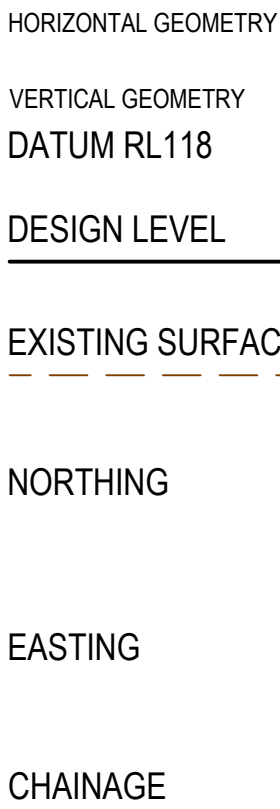
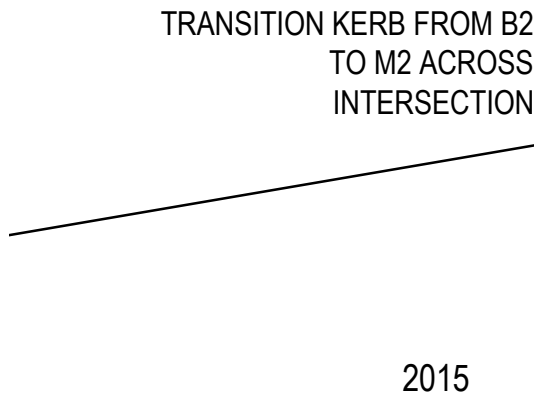
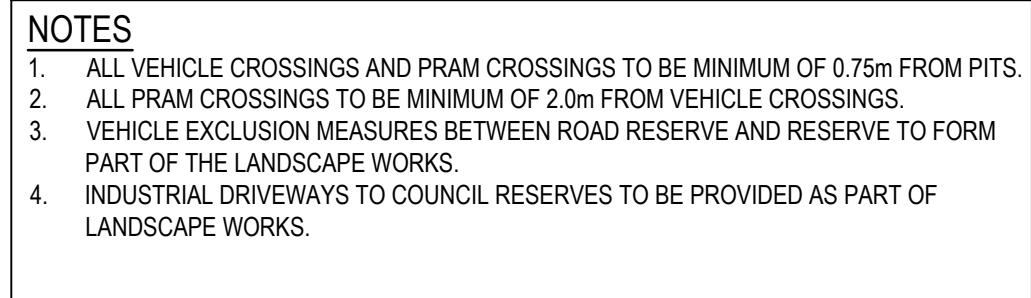
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ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500



WESTWOOD

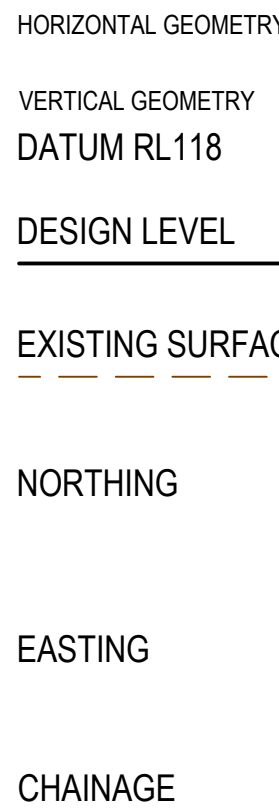
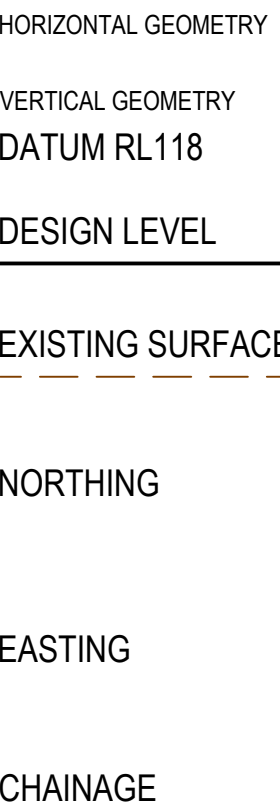
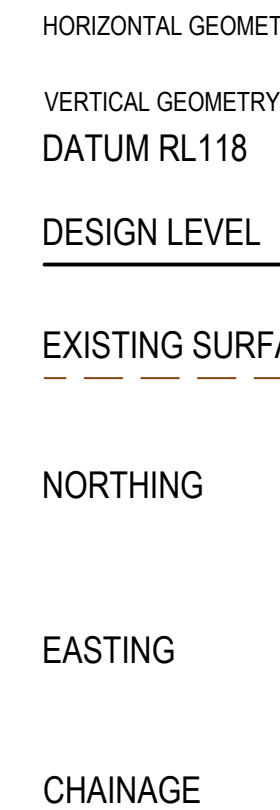
Westwood Estate - Stage 20
Melton City Council
Road and Drainage
Signage & Linemarking Plan

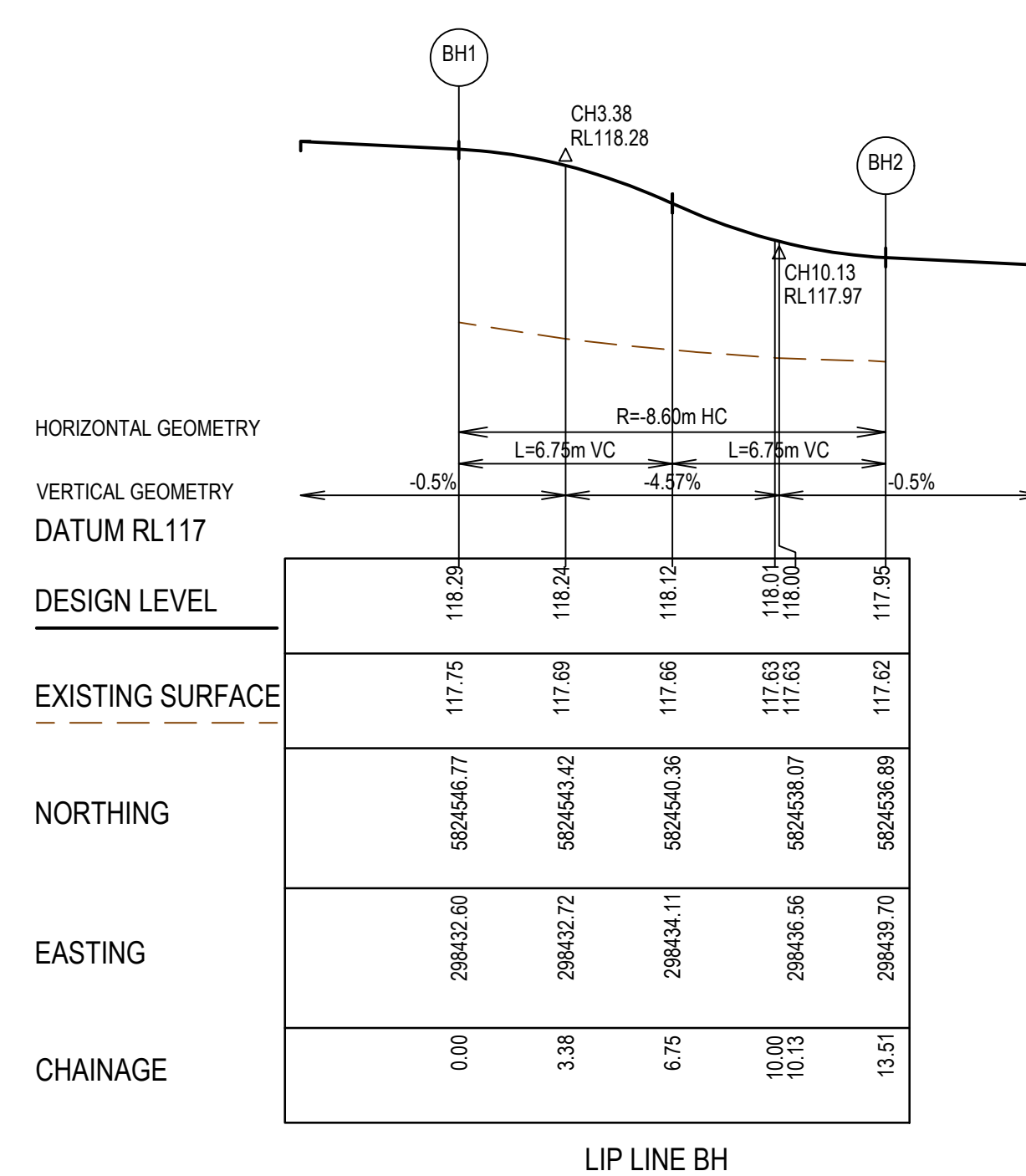
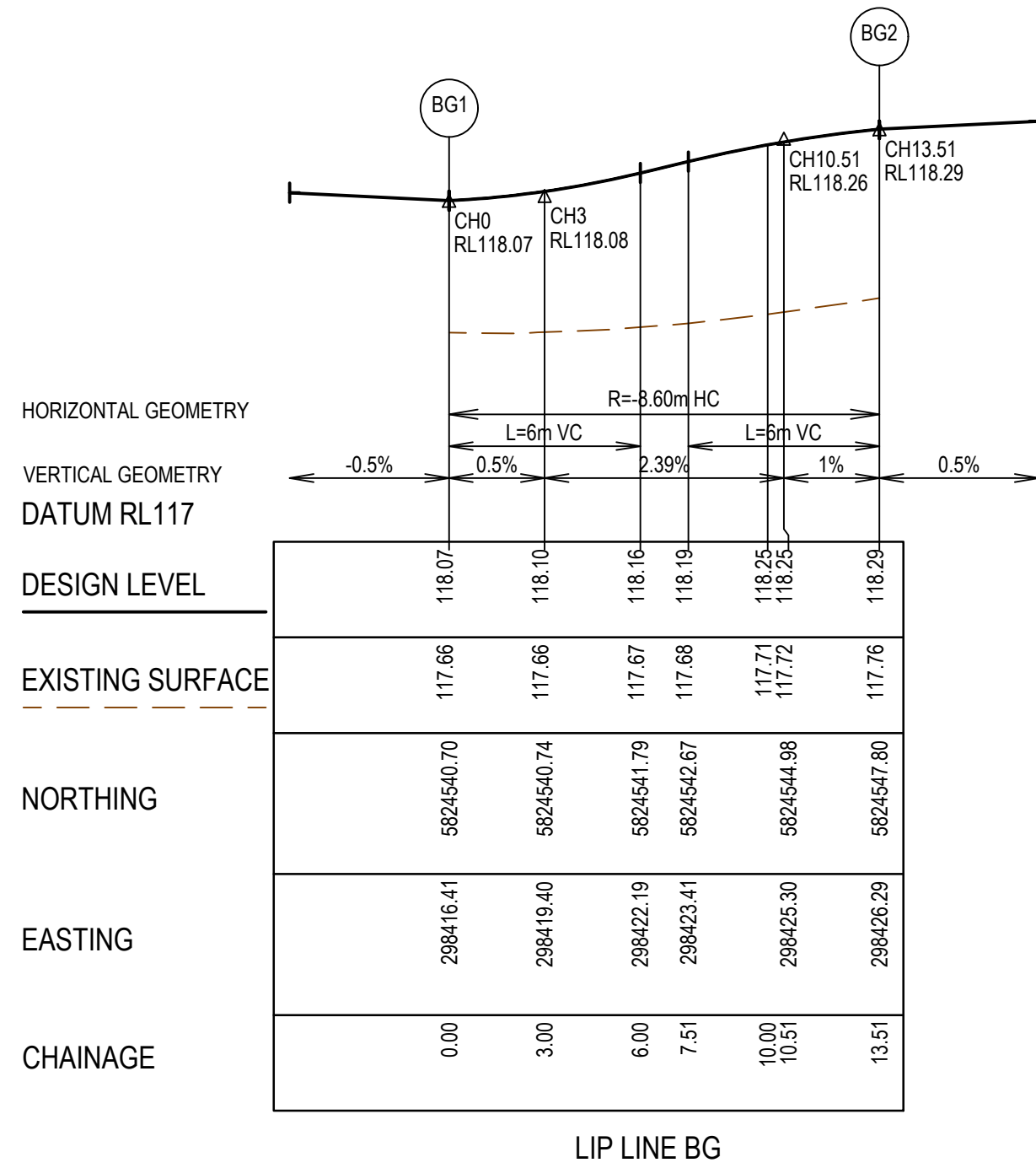
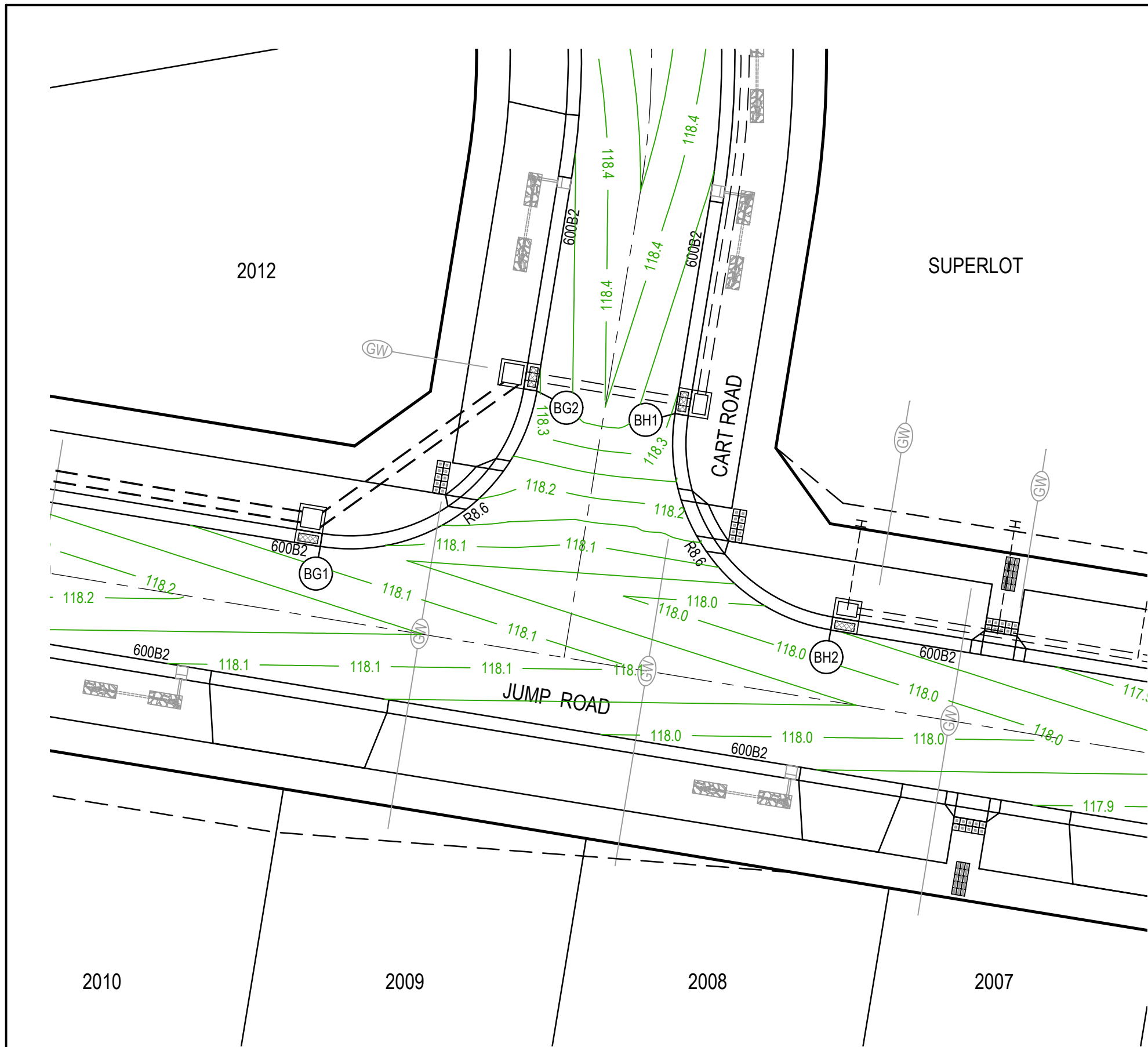
MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-171	SHEET No. 04 of 20	REVISION 0
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LEGEND - INTERSECTION DETAIL PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH

TRAFFIC ISLAND SETOUT			
Alignment TA			
Point no	Easting	Northing	
TA1	298425.726	5824598.059	
TA2	298426.437	5824593.902	
TA3	298426.872	5824593.580	
TA4	298427.176	5824594.029	
TA5	298426.465	5824598.185	
TA6	298426.029	5824598.508	
Alignment TB			
Point no	Easting	Northing	
TB1	298437.658	5824610.615	
TB2	298441.819	5824609.935	
TB3	298442.266	5824610.242	
TB4	298441.940	5824610.675	
TB5	298437.739	5824611.356	
TB6	298437.332	5824611.049	
Alignment TC			
Point no	Easting	Northing	
TC1	298544.076	5824593.209	
TC2	298548.238	5824592.529	
TC3	298548.685	5824592.836	
TC4	298548.359	5824593.269	
TC5	298544.197	5824593.390	
TC6	298543.750	5824593.643	
Alignment TD			
Point no	Easting	Northing	
TD1	298560.601	5824601.416	
TD2	298561.282	5824605.578	
TD3	298560.975	5824606.025	
TD4	298560.541	5824605.699	
TD5	298559.861	5824601.537	
TD6	298560.168	5824601.090	





LEGEND - INTERSECTION DETAIL PLAN

ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

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

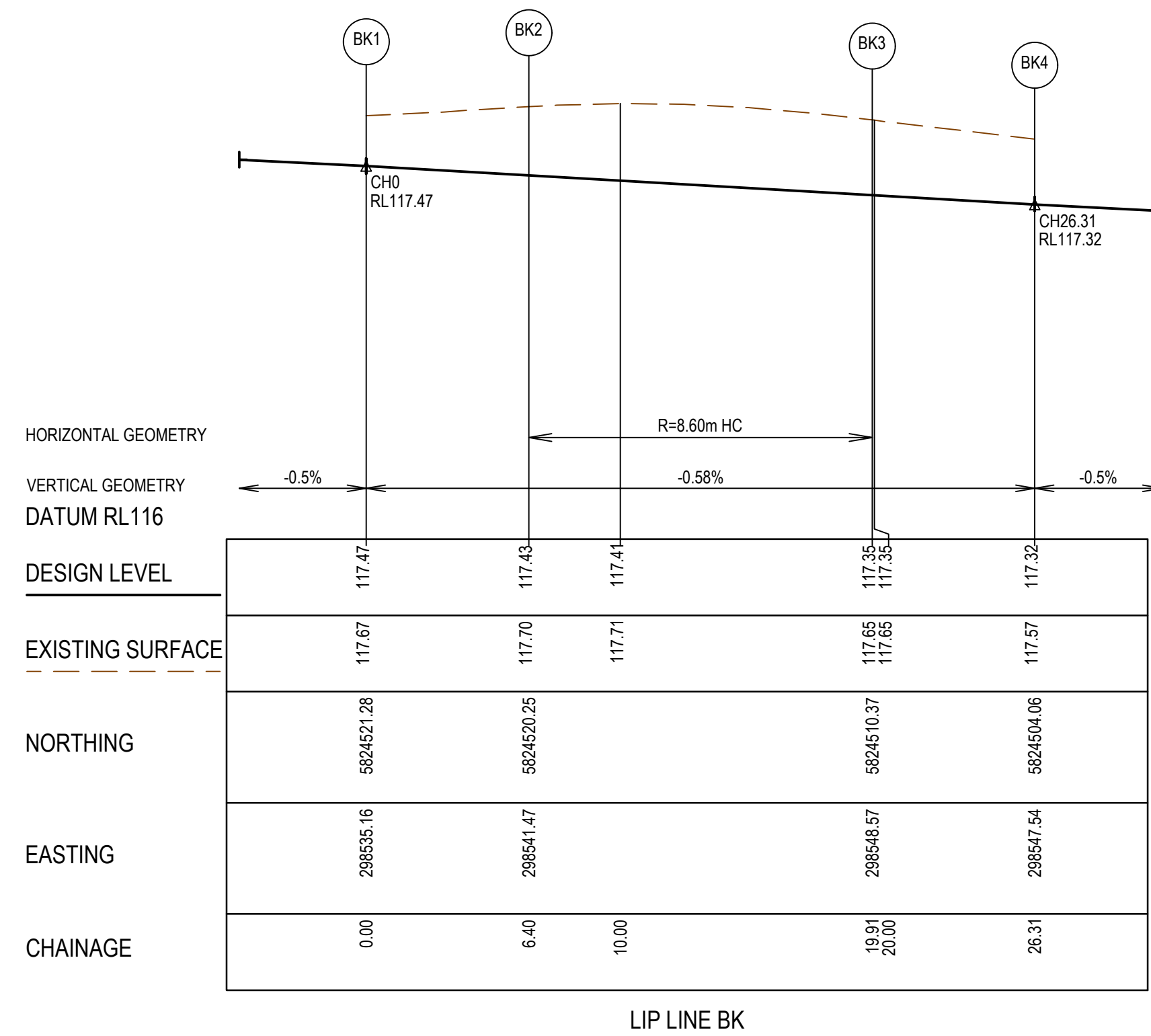
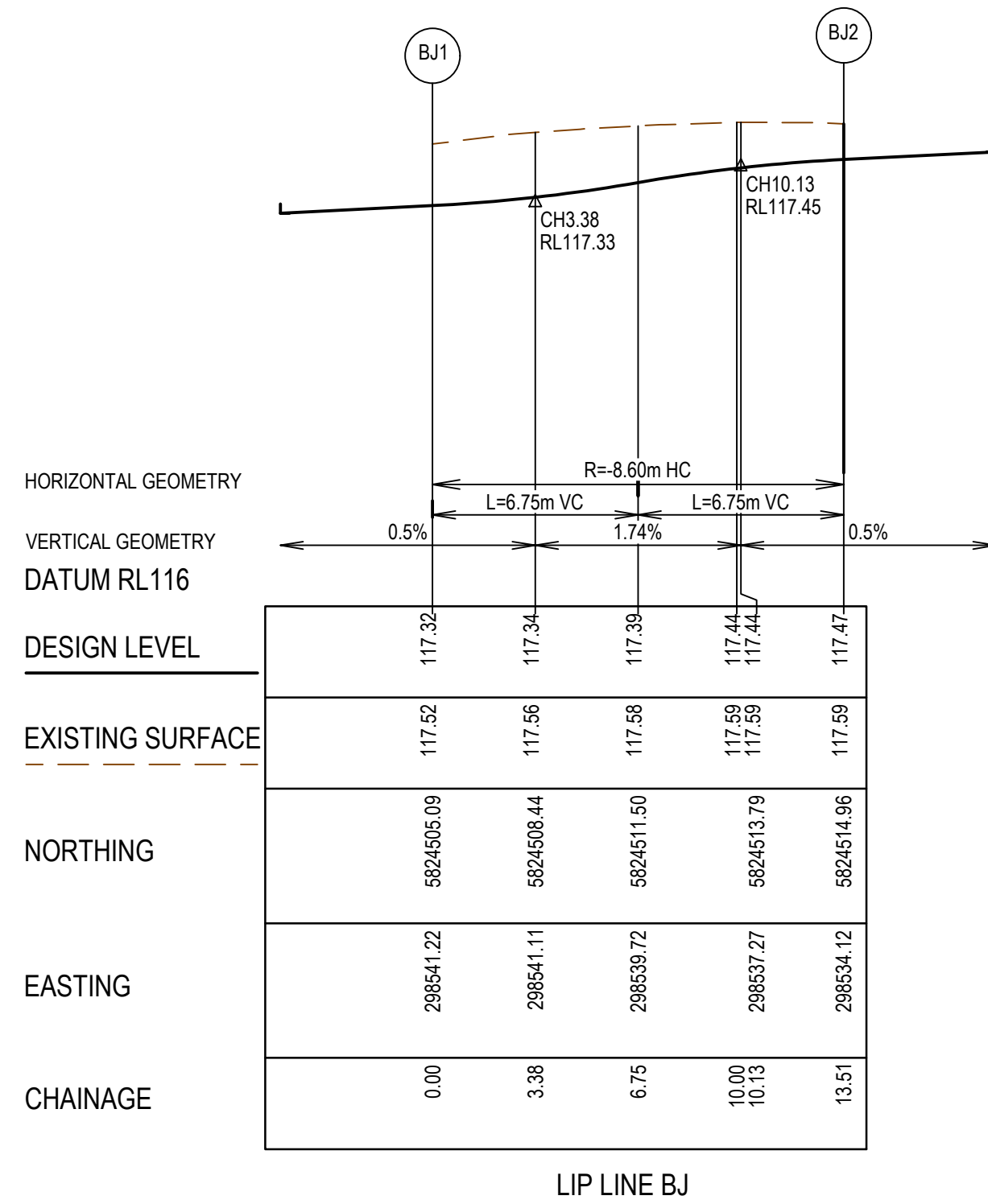
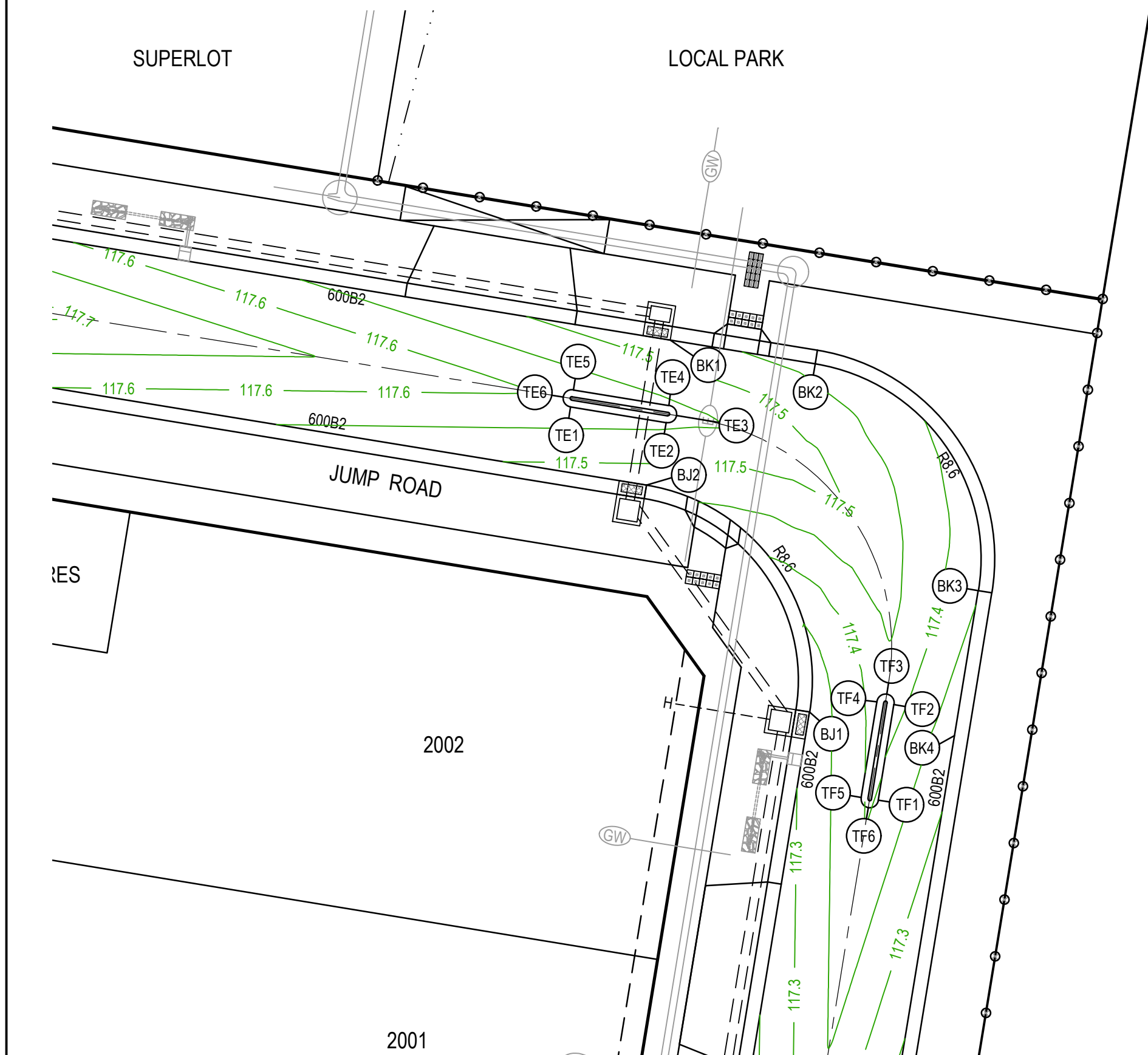
TRAFFIC ISLAND SETOUT

Alignment TE

Point no	Easting	Northing
TE1	298530.821	5824518.367
TE2	298534.983	5824517.687
TE3	298535.430	5824517.994
TE4	298535.104	5824518.427
TE5	298530.942	5824519.108
TE6	298530.496	5824518.801

Alignment TF

Point no	Easting	Northing
TF1	298544.217	5824501.247
TF2	298544.898	5824505.409
TF3	298544.591	5824505.856
TF4	298544.158	5824505.530
TF5	298543.477	5824501.368
TF6	298543.784	5824500.921



- NOTES
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
 - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
 - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.

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0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON

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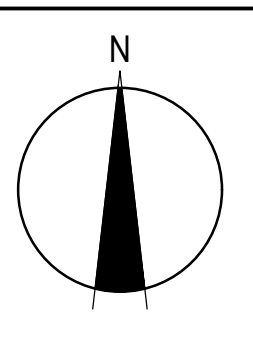
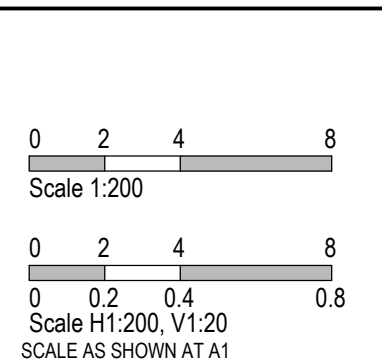
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WESTWOOD

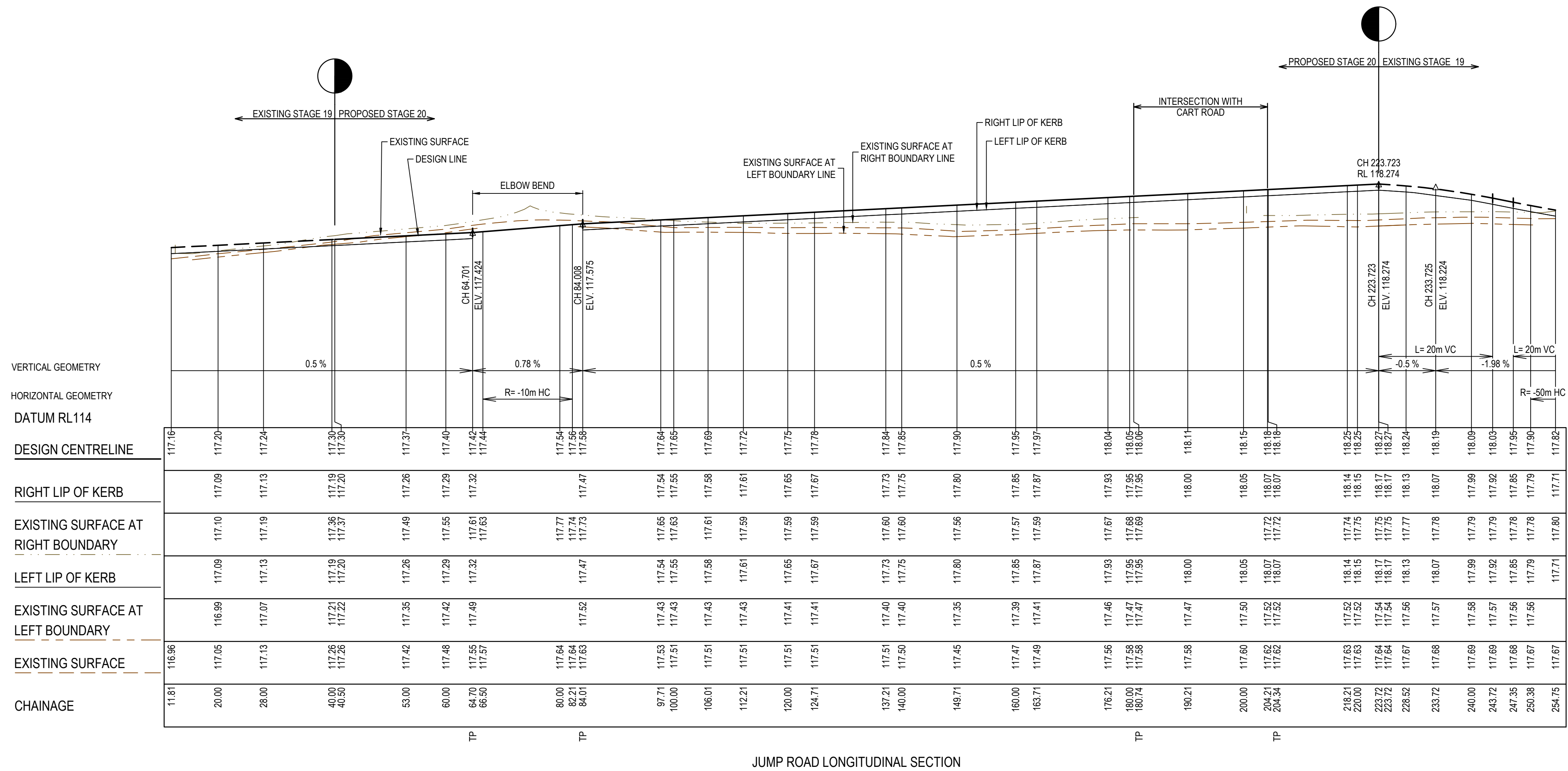
Westwood Estate - Stage 20

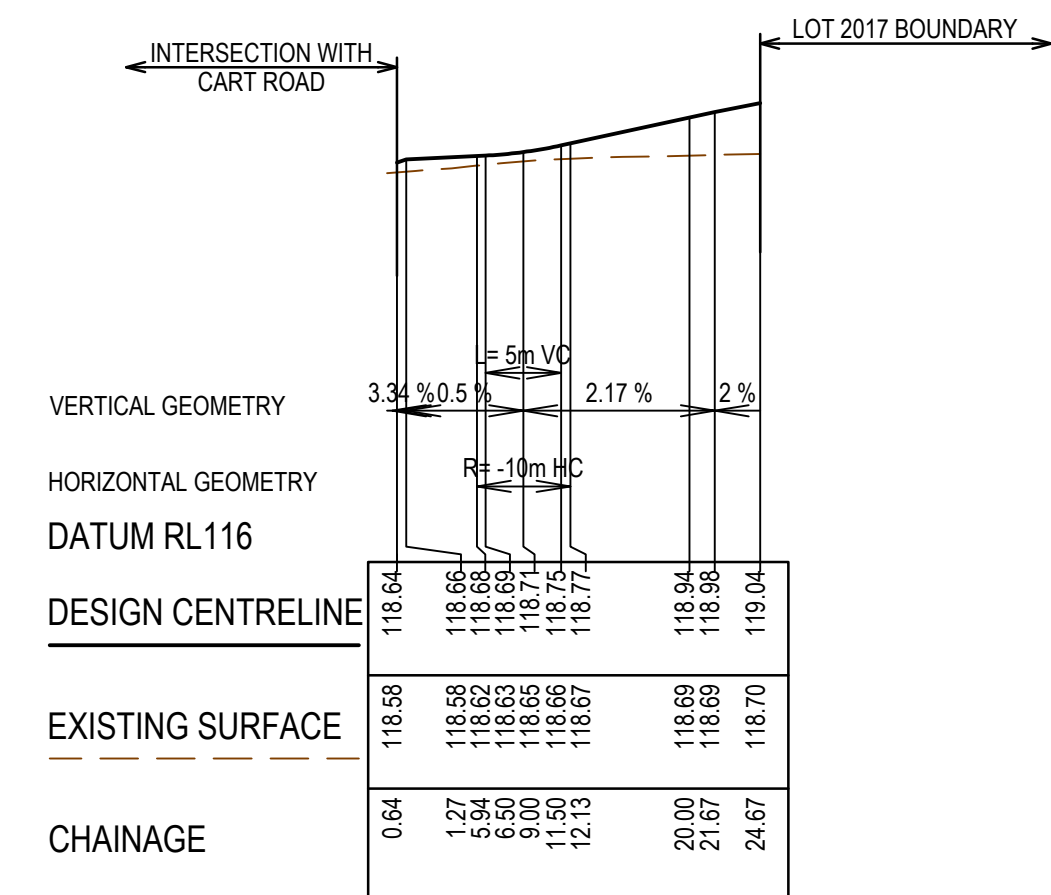
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Road and Drainage

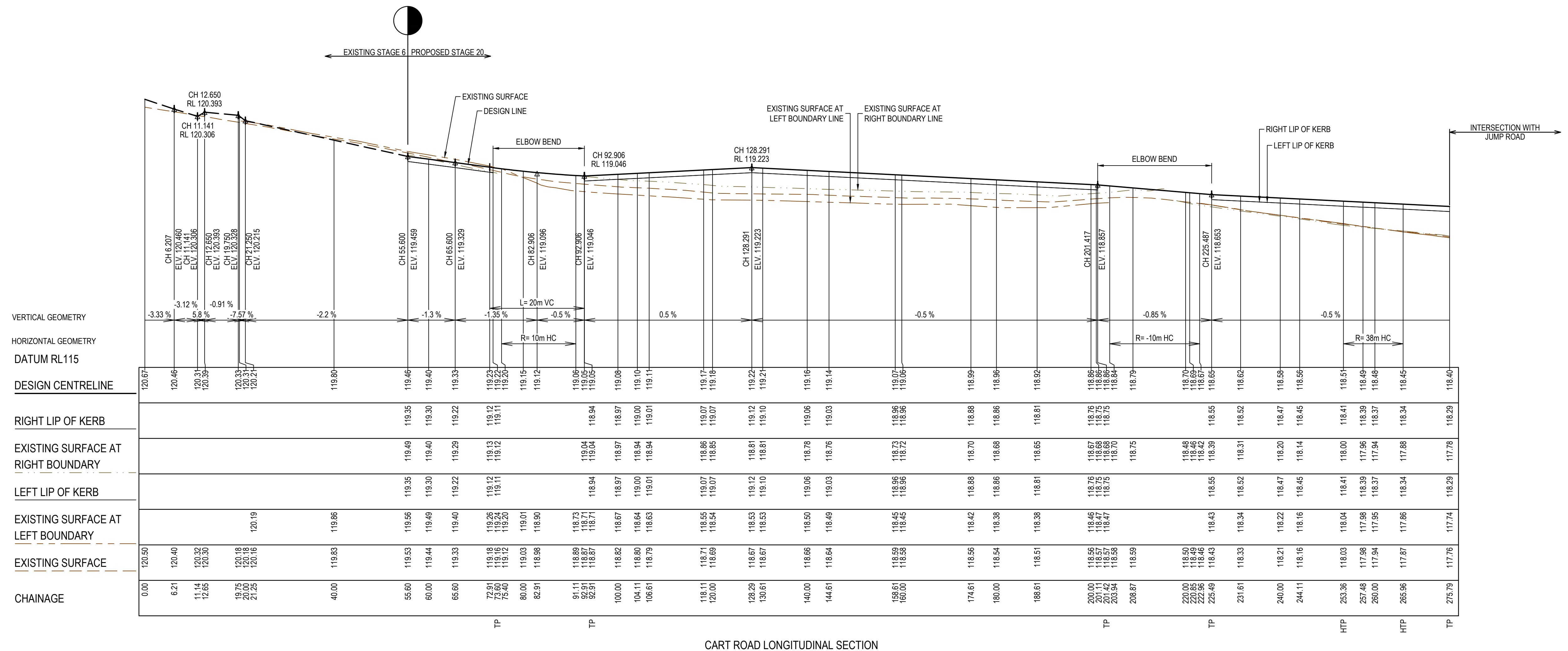
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MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
356 B1	2152E-020-182	06 of 20	0










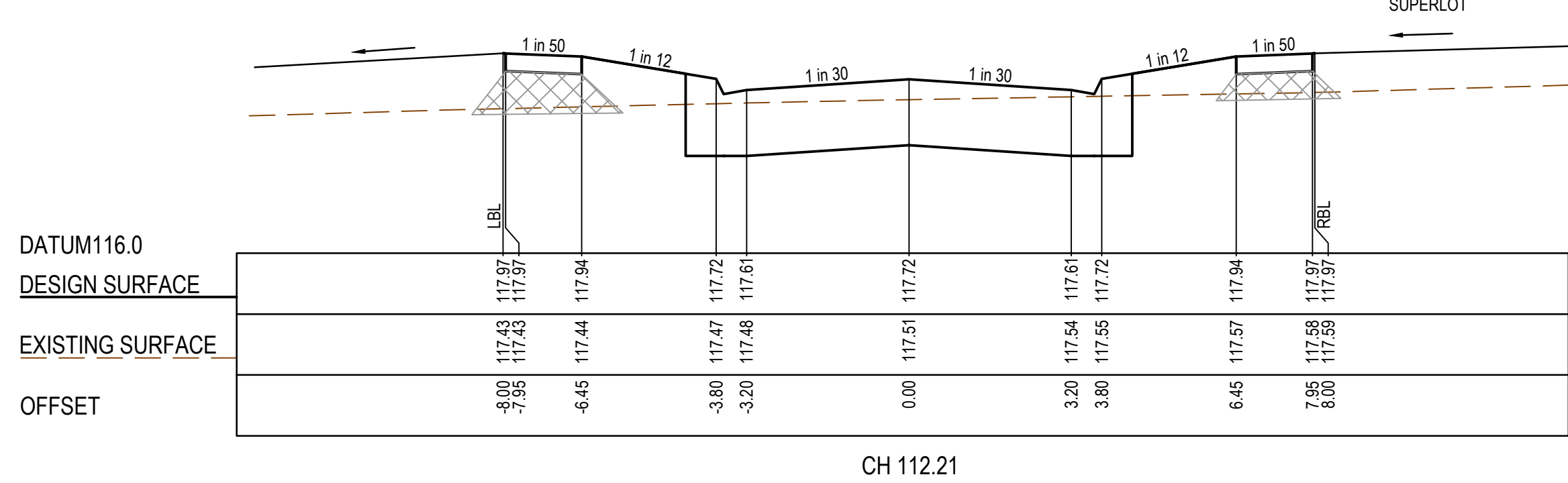
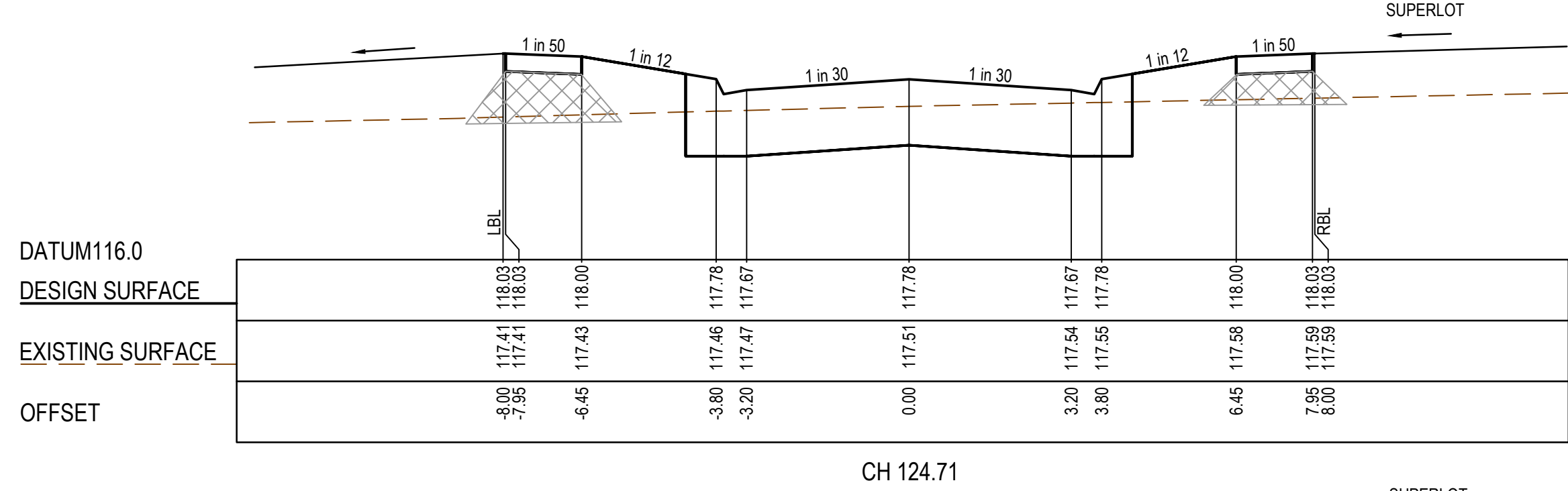
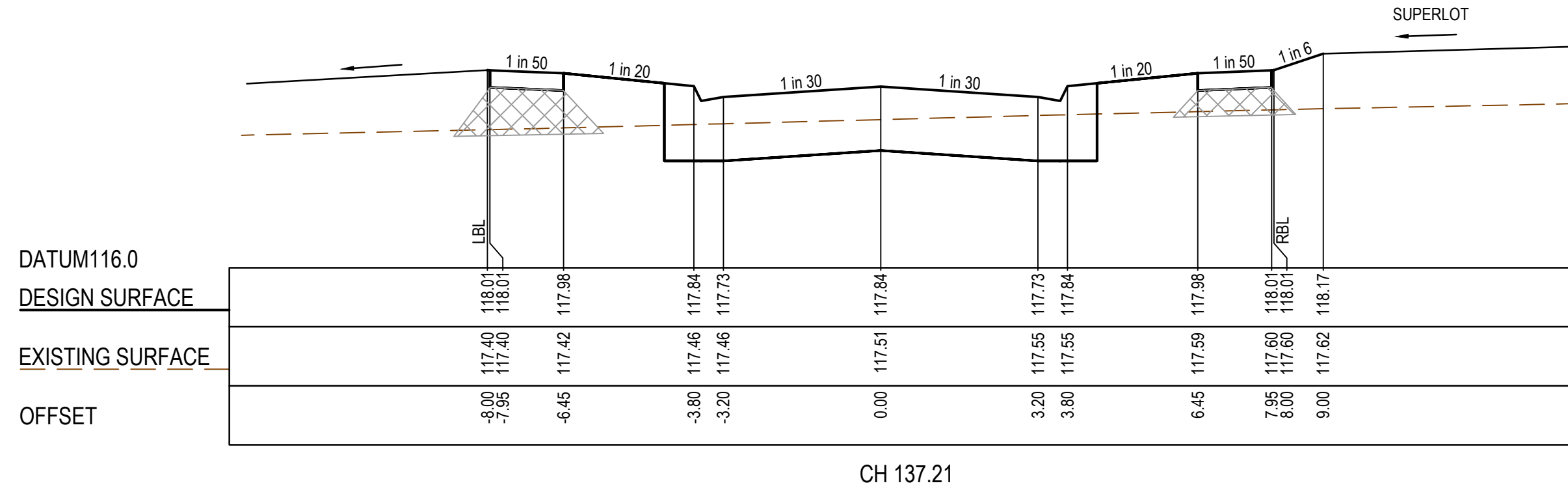
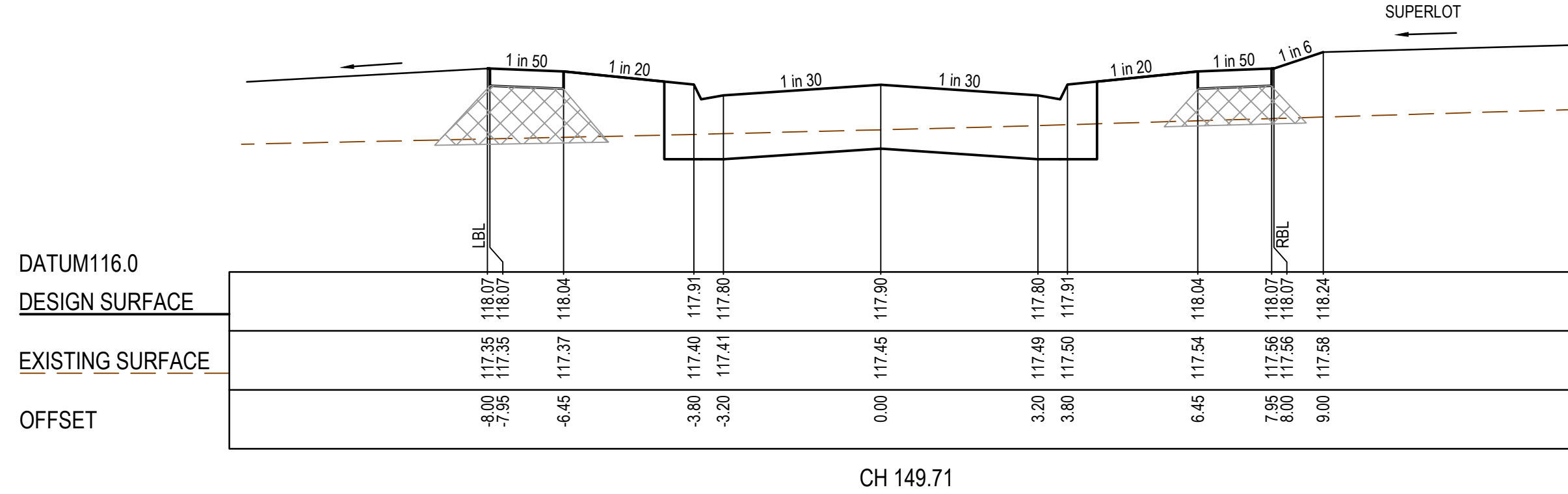
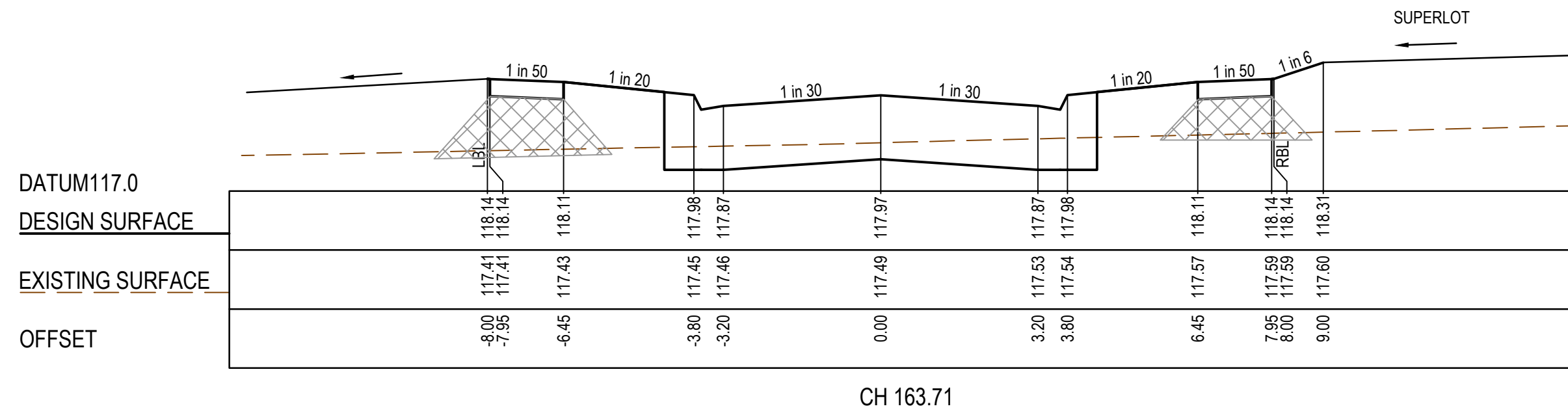
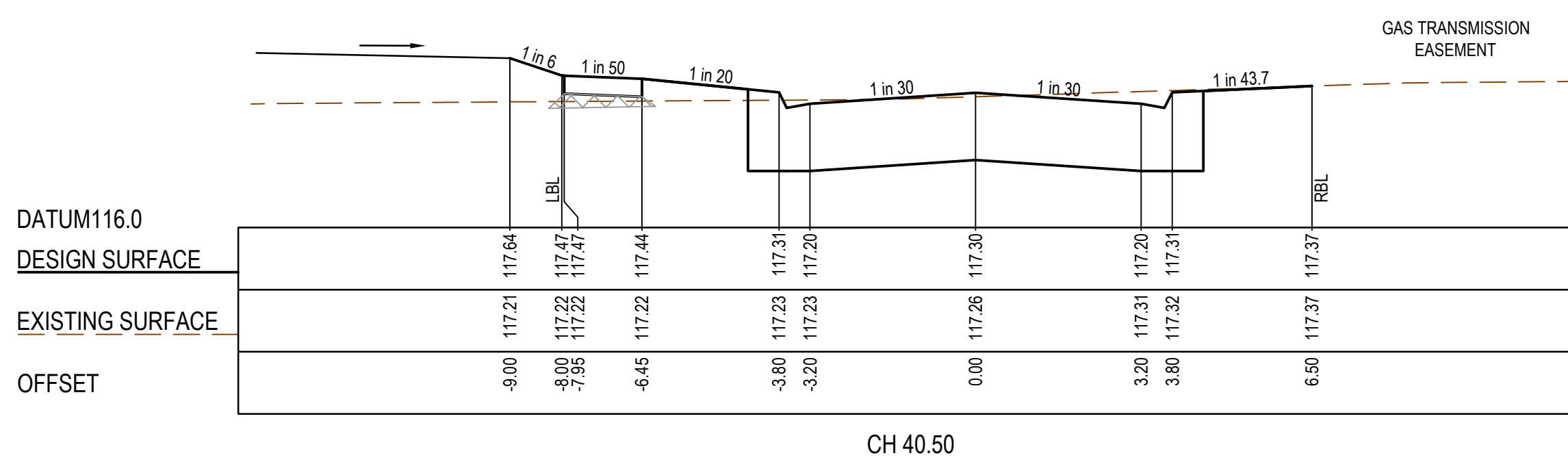
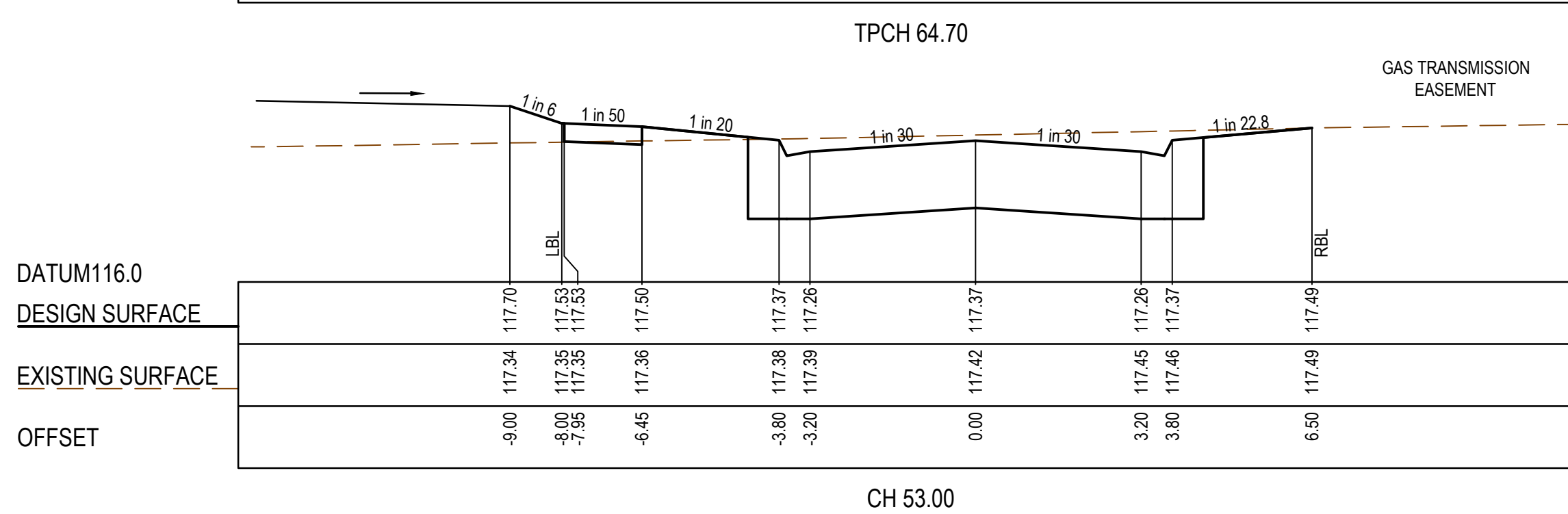
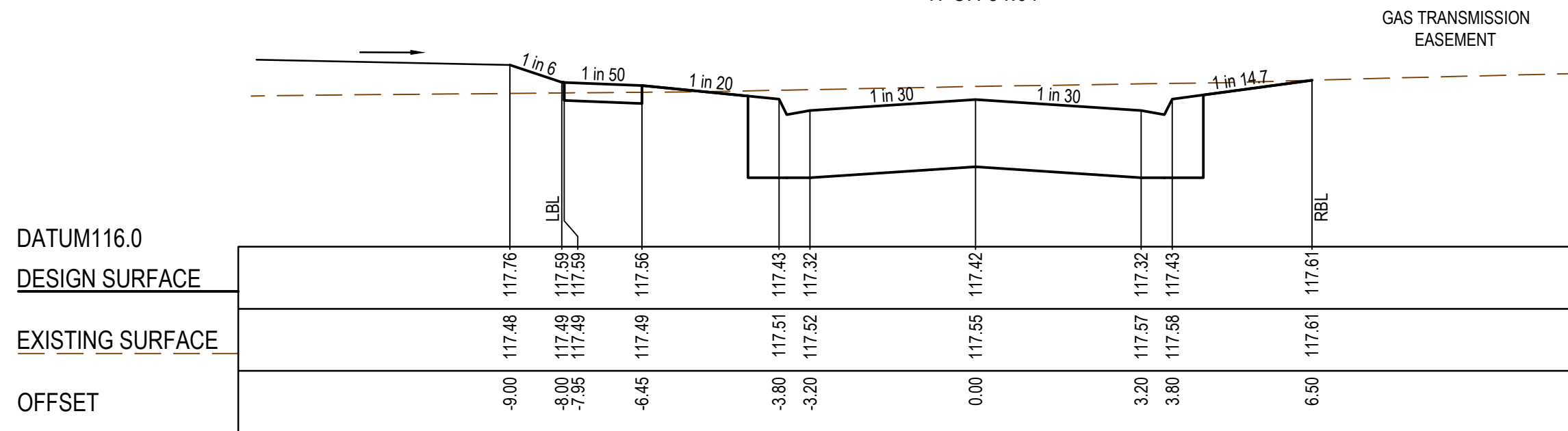
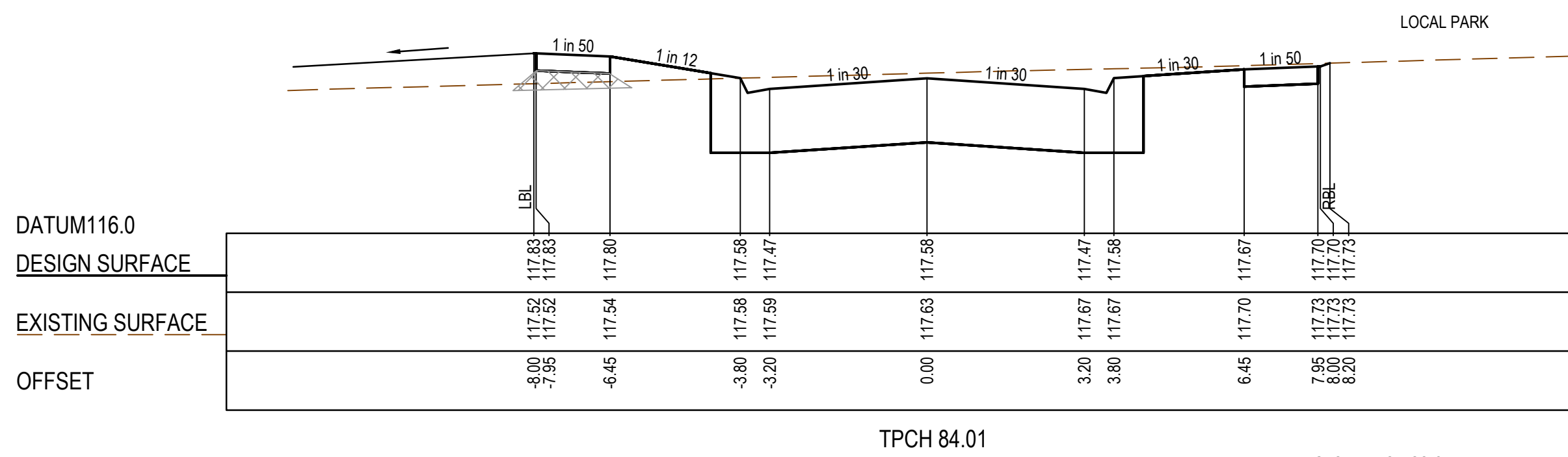
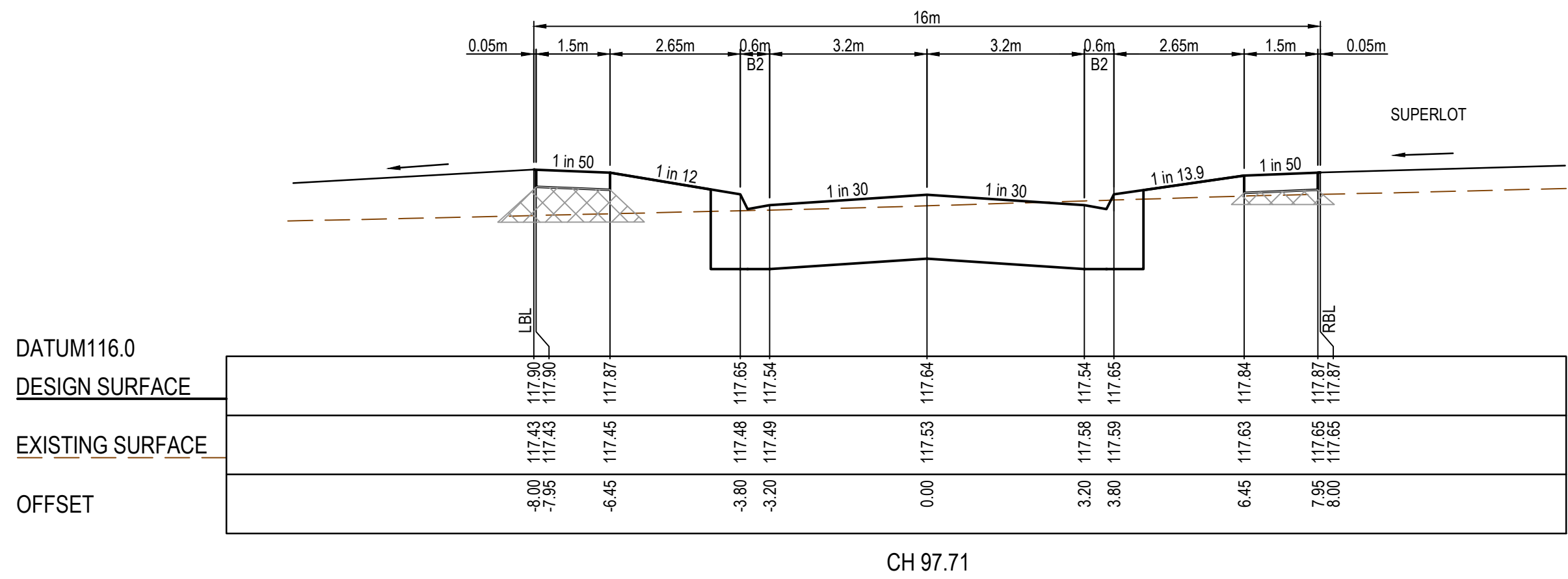
SHARED DRIVEWAY LONGITUDINAL SECTION
(LOTS 2017-2019)



CART ROAD LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div> <div>  <p>Quality Management ISO 9001</p> <p>Global-Mark.com.au®</p> </div> <div>  <p>OHS Management AS/NZS 1891</p> <p>Global-Mark.com.au®</p> </div> <div>  <p>Environmental Management ISO 14001</p> <p>Global-Mark.com.au®</p> </div> </div>	PLAN OF SUB. NO.	 <p>SMEC</p> <p>Member of the Surbana Juring Group</p> <p>Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</p>	 <p>WESTWOOD</p>	Westwood Estate - Stage 20 Melton City Council Road and Drainage Longitudinal Sections - 2		
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON	PERMIT REF. NO.	MELWAYS REF 356 B1			PROJECT / DRAWING No. 2152E-020-202	SHEET No. 08 of 20	REVISION 0

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



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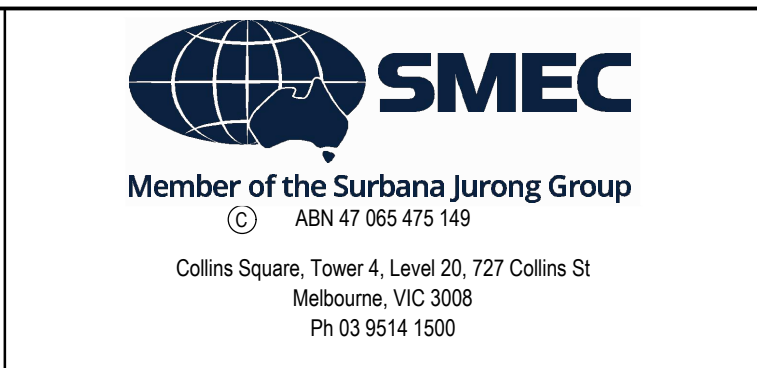
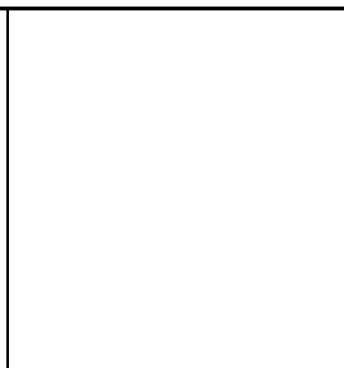
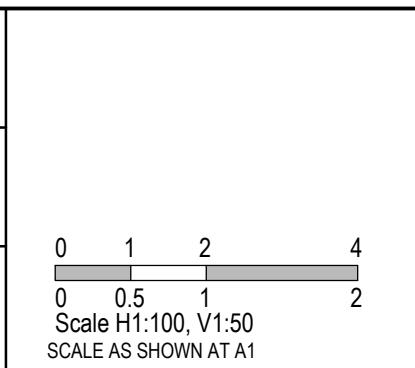
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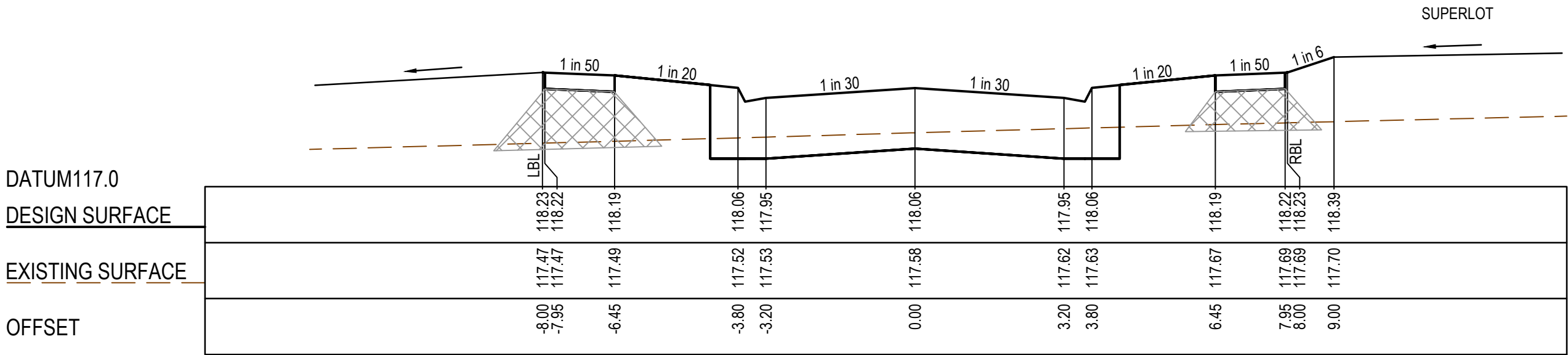
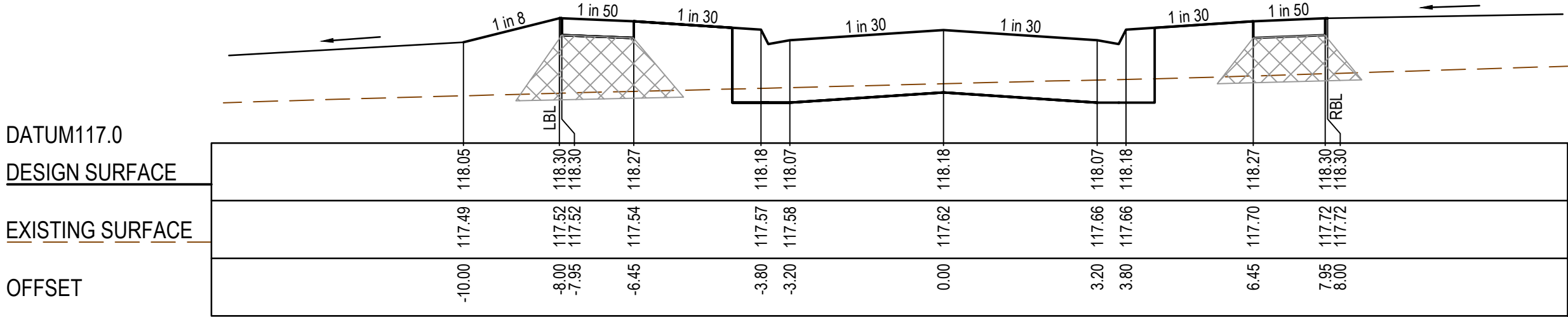
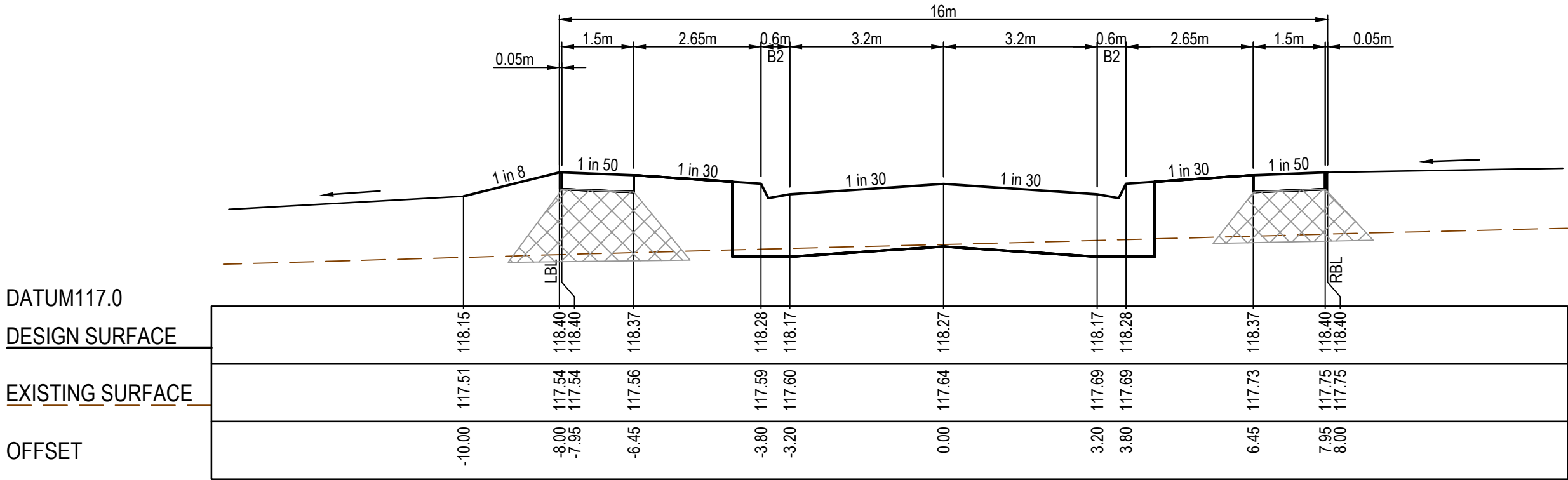
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Westwood Estate - Stage 20
Melton City Council
Road and Drainage
Cross Sections: Jump Road
Ch 40.50 - Ch 163.71

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
356 B1	2152E-020-251	09 of 20	0

STRUCTURAL FILL REQUIRED UNDER
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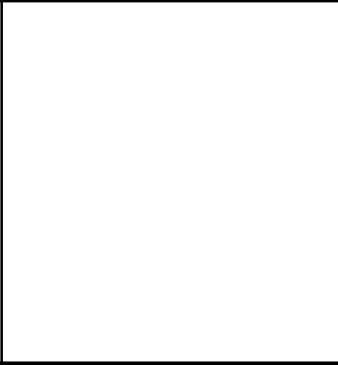
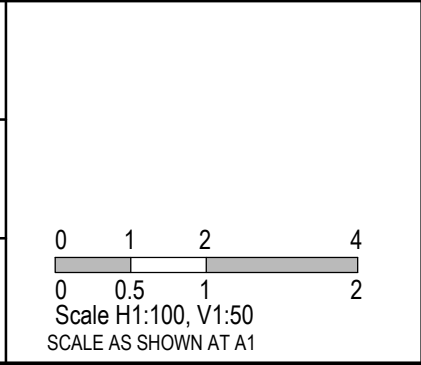


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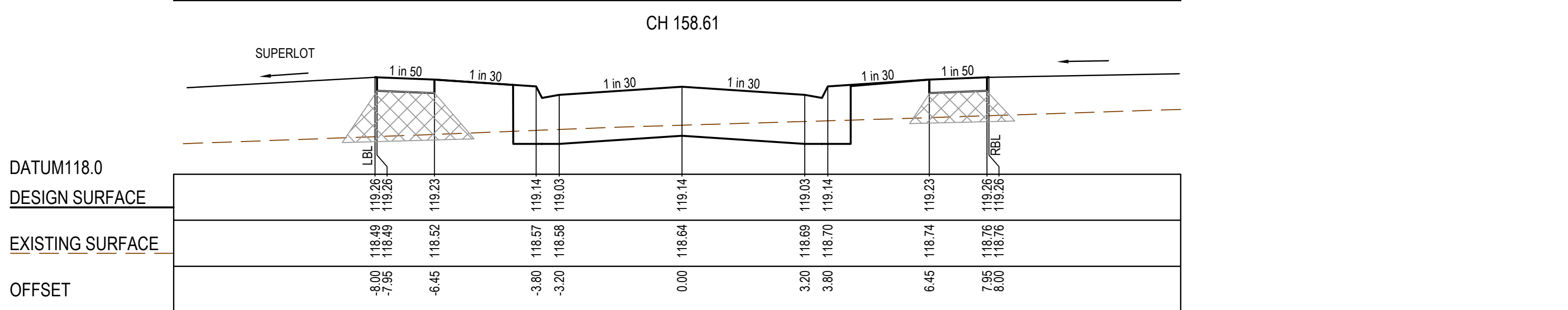
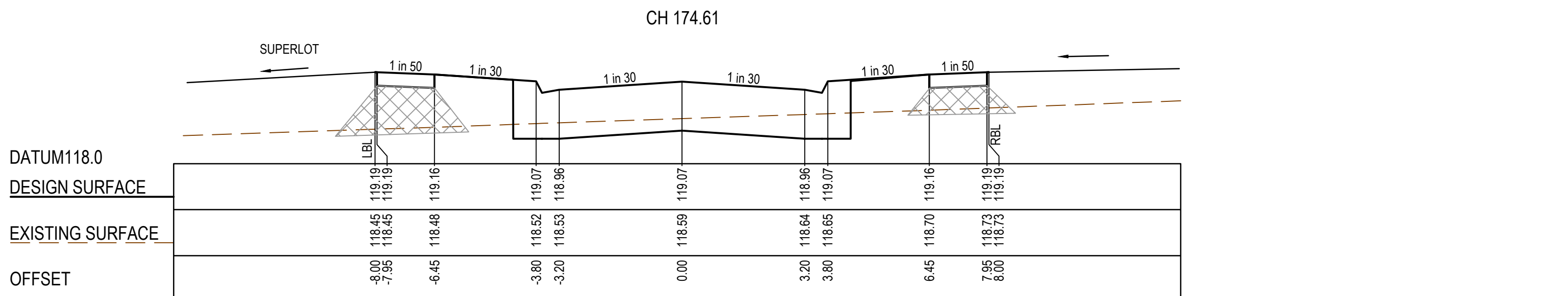
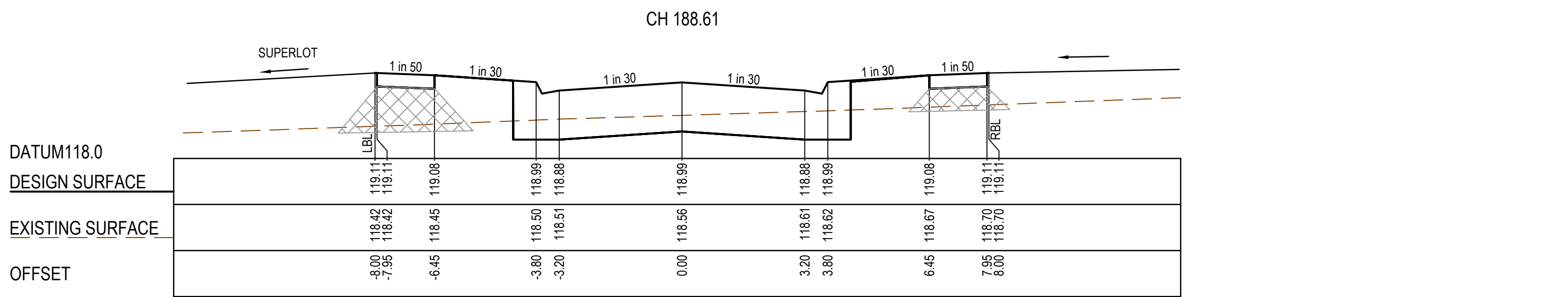
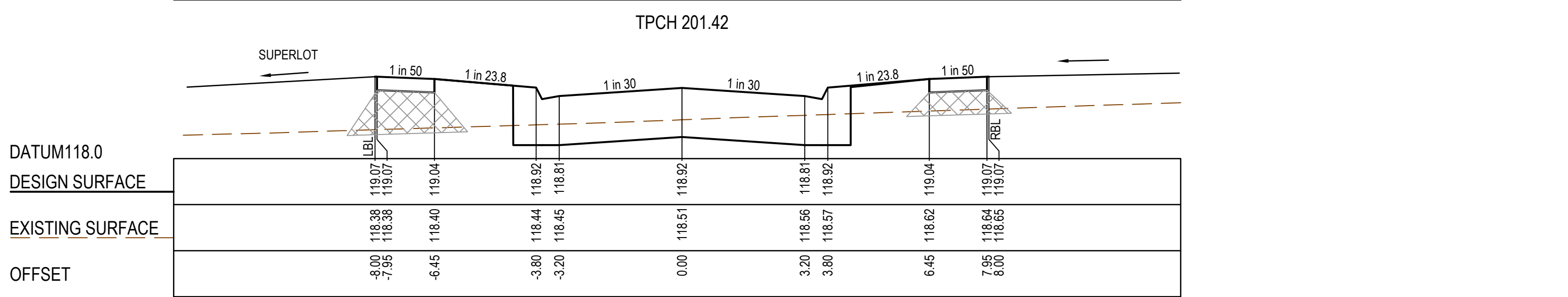
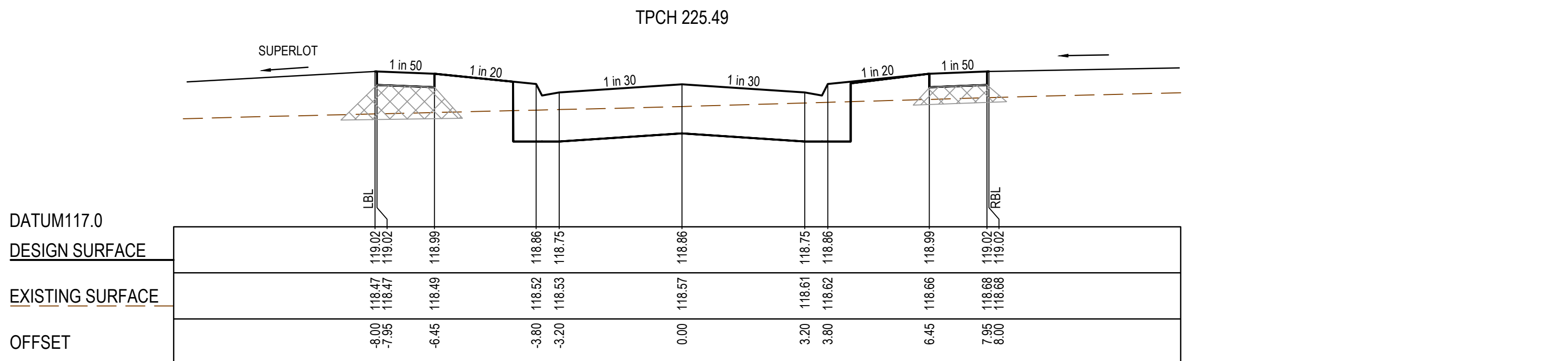
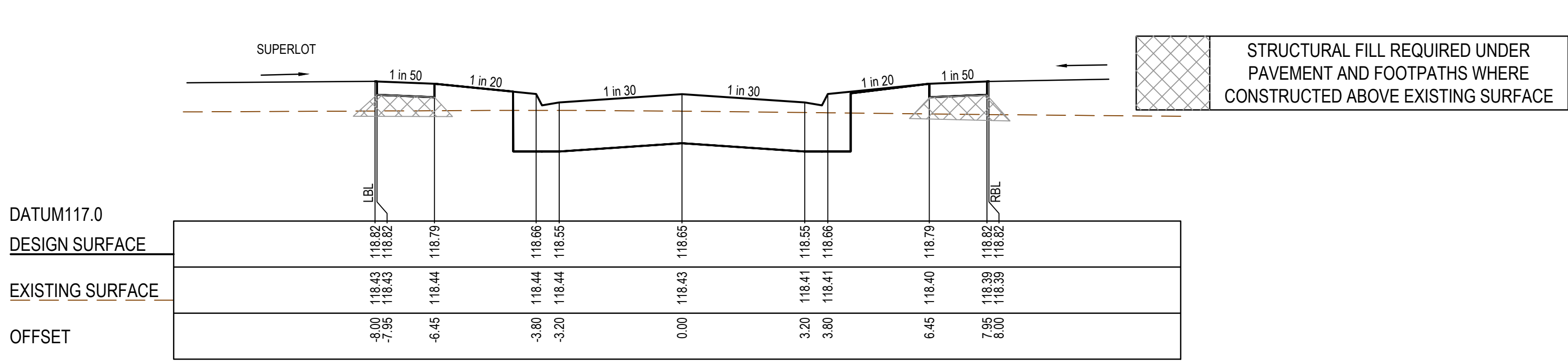
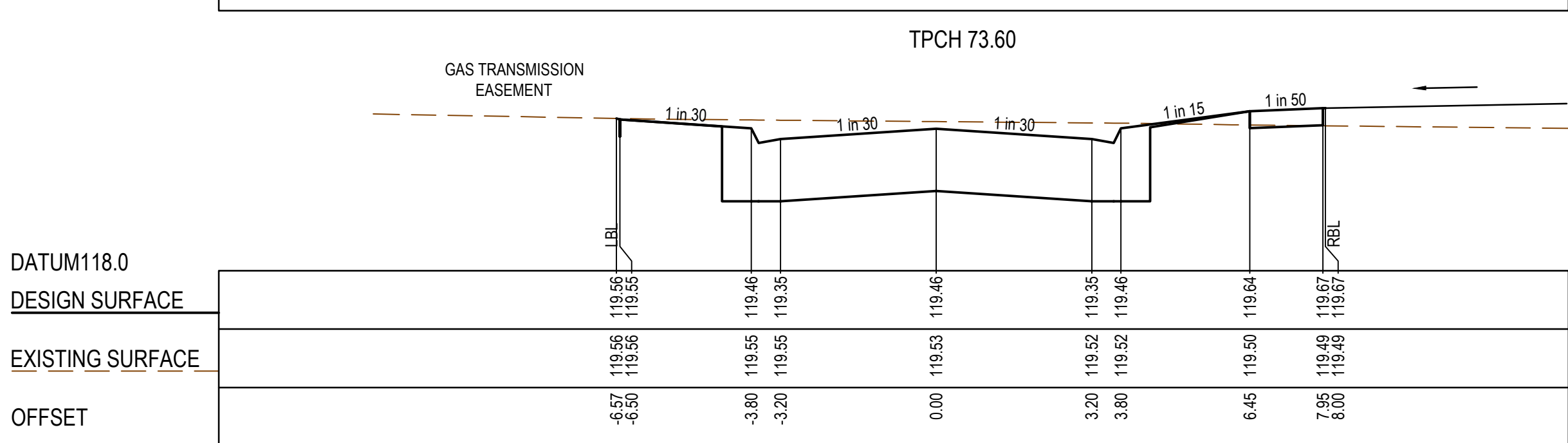
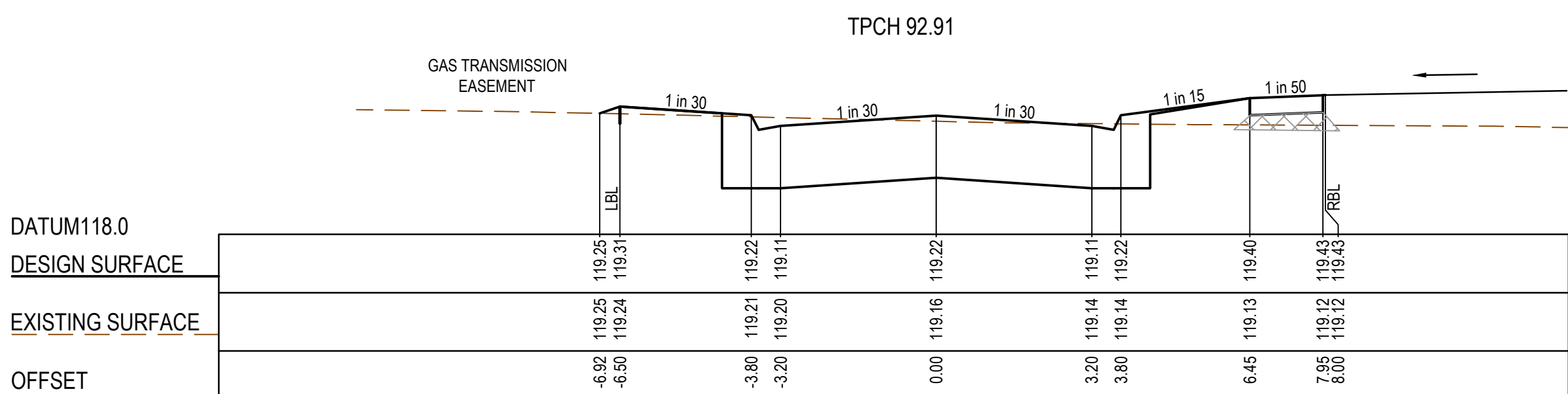
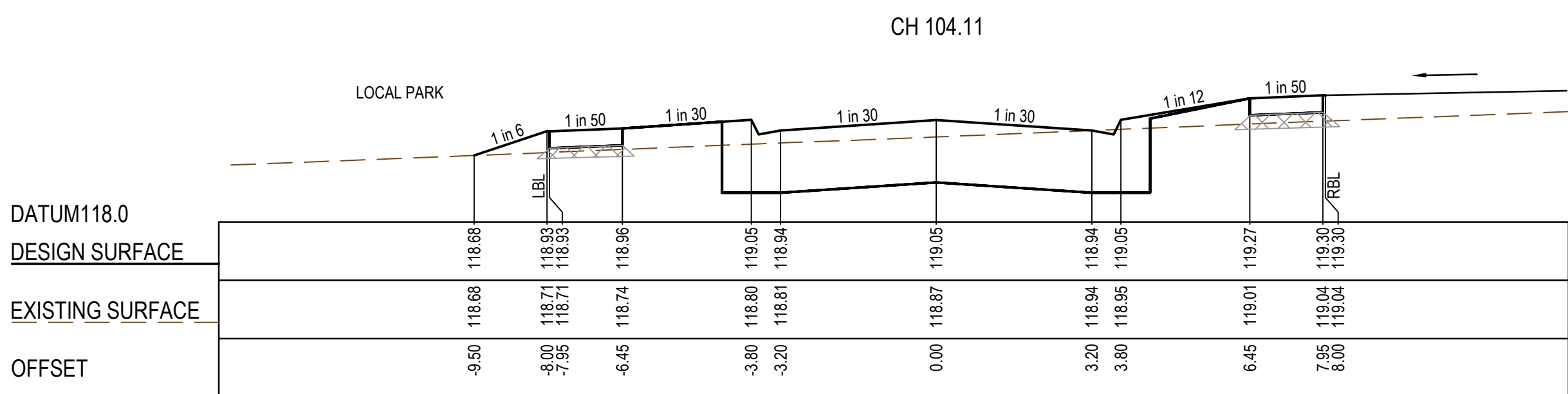
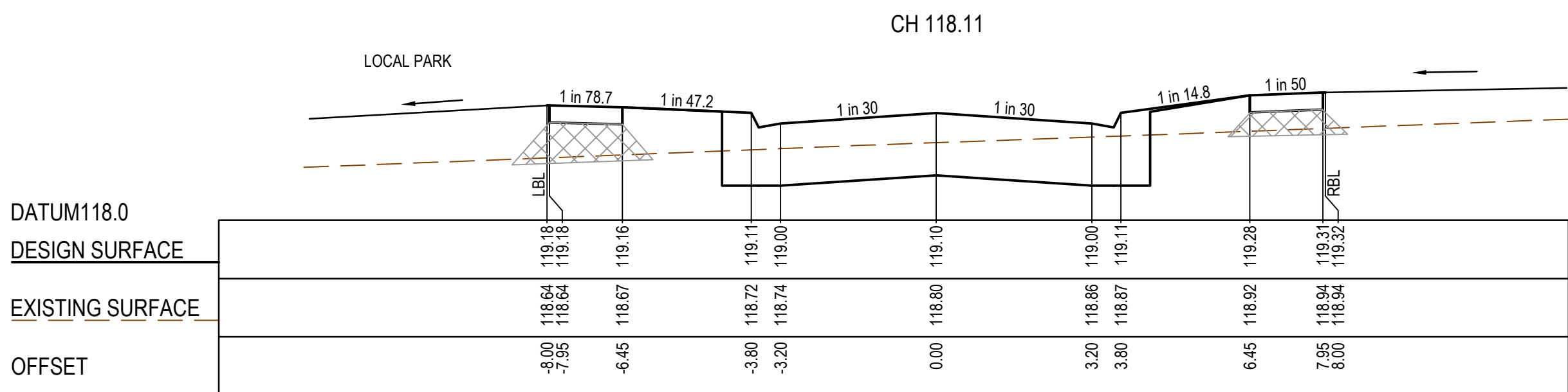
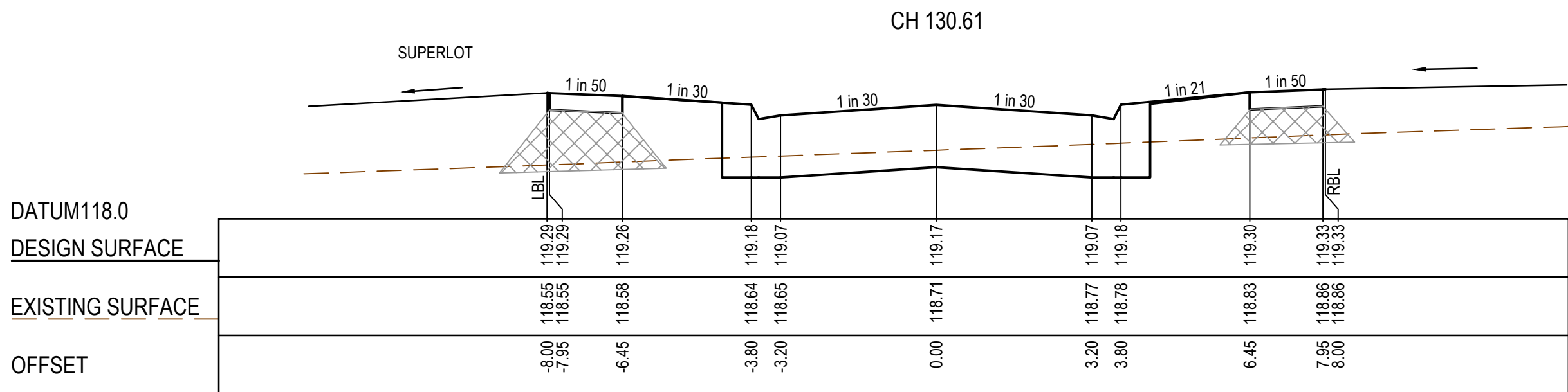
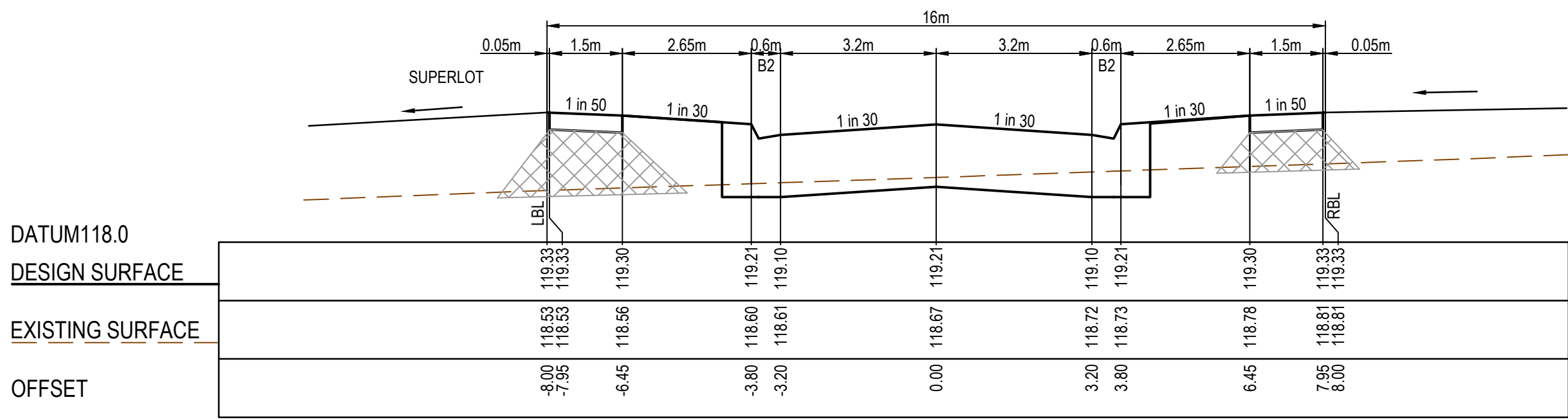




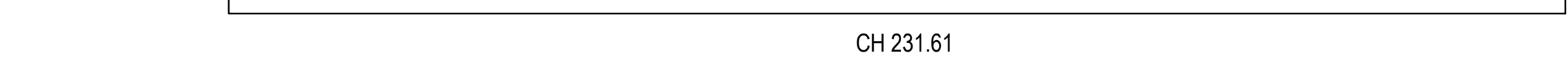
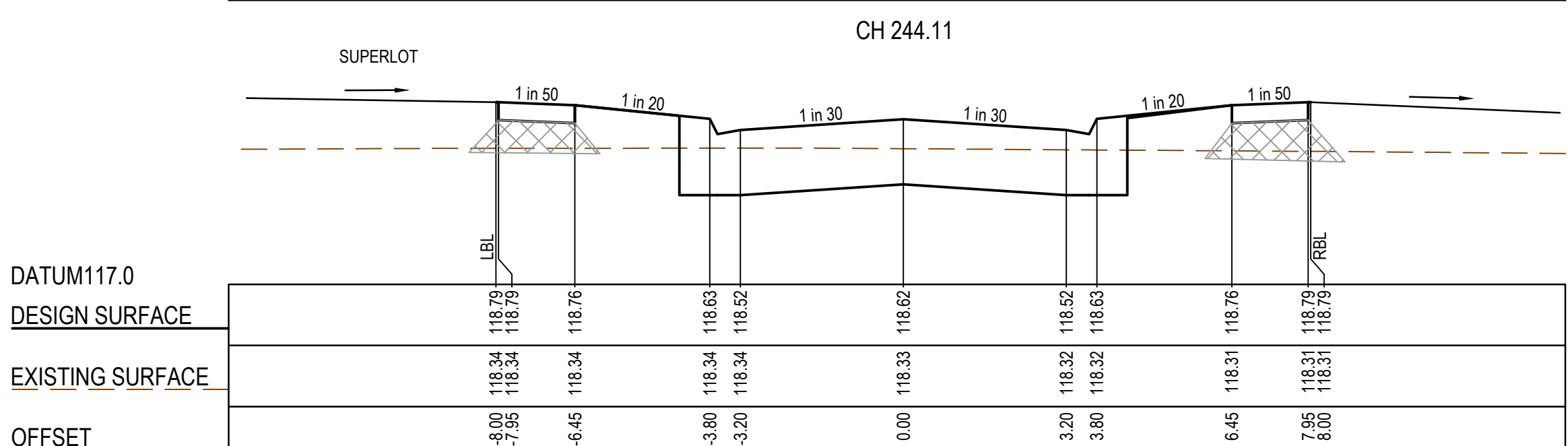
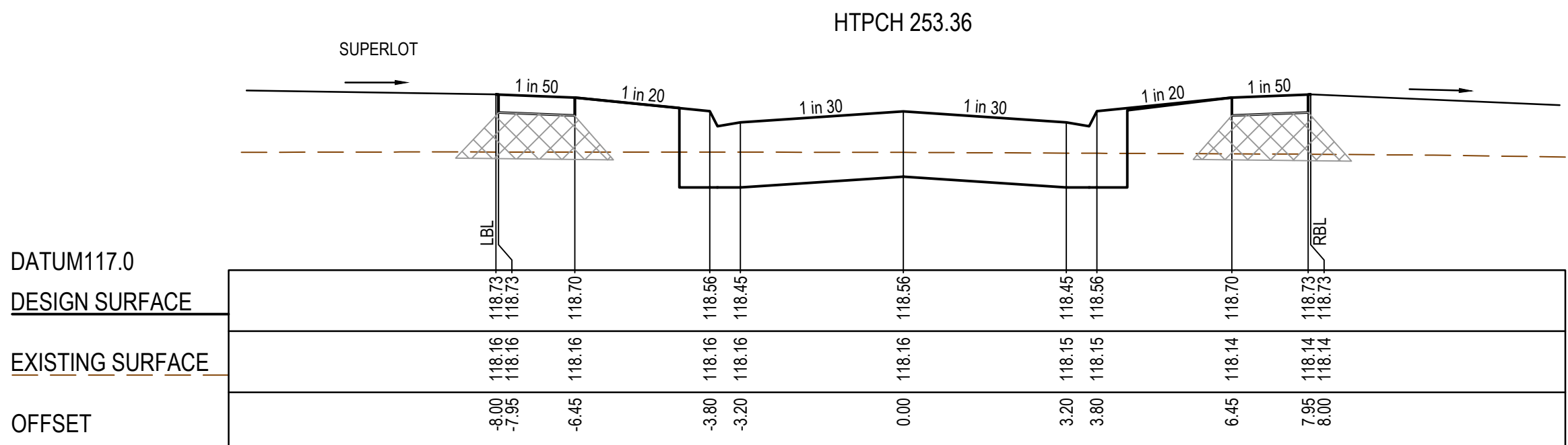
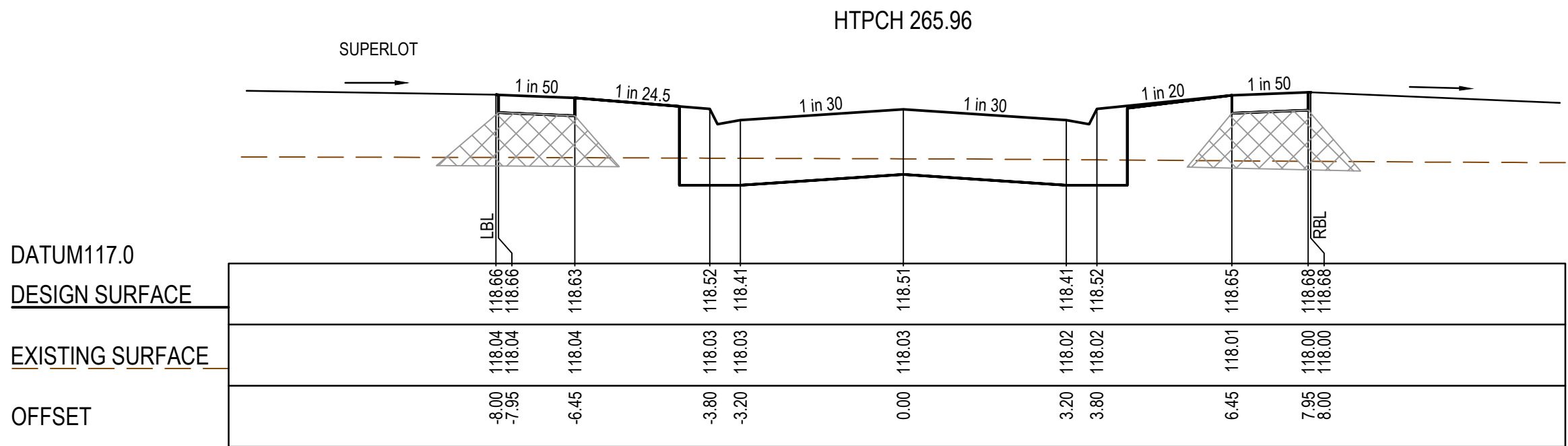
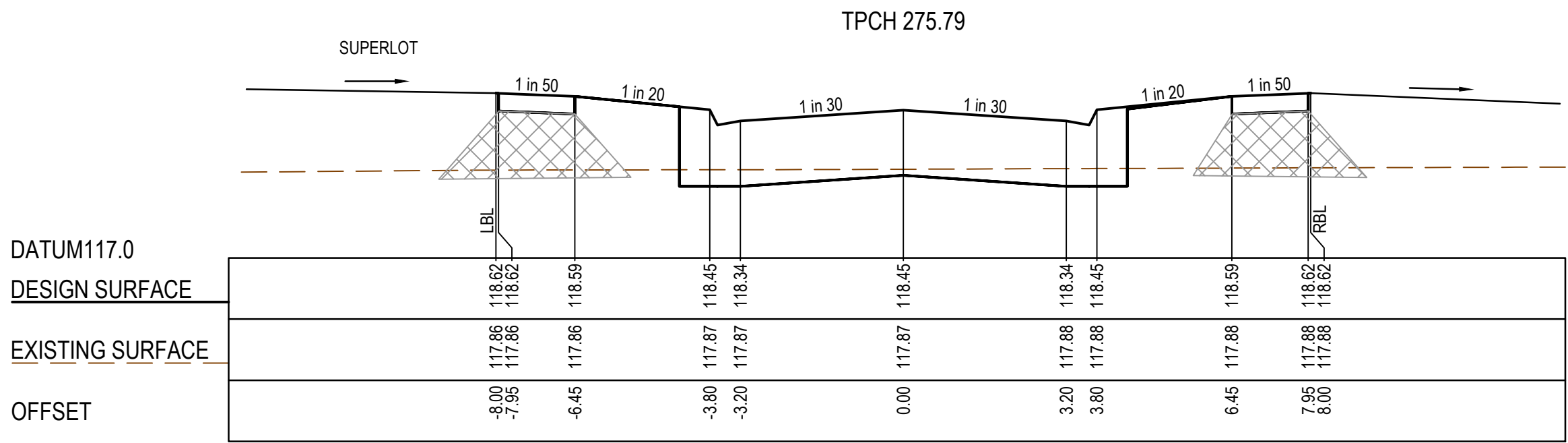
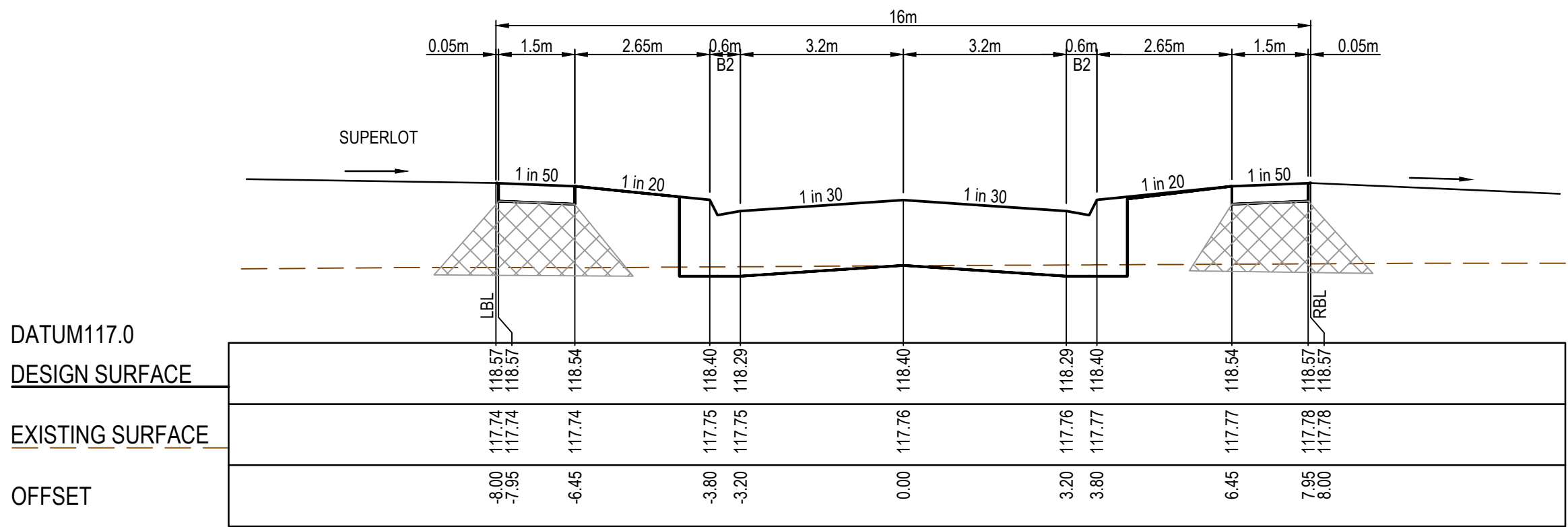
SMEC
Member of the Surbana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500



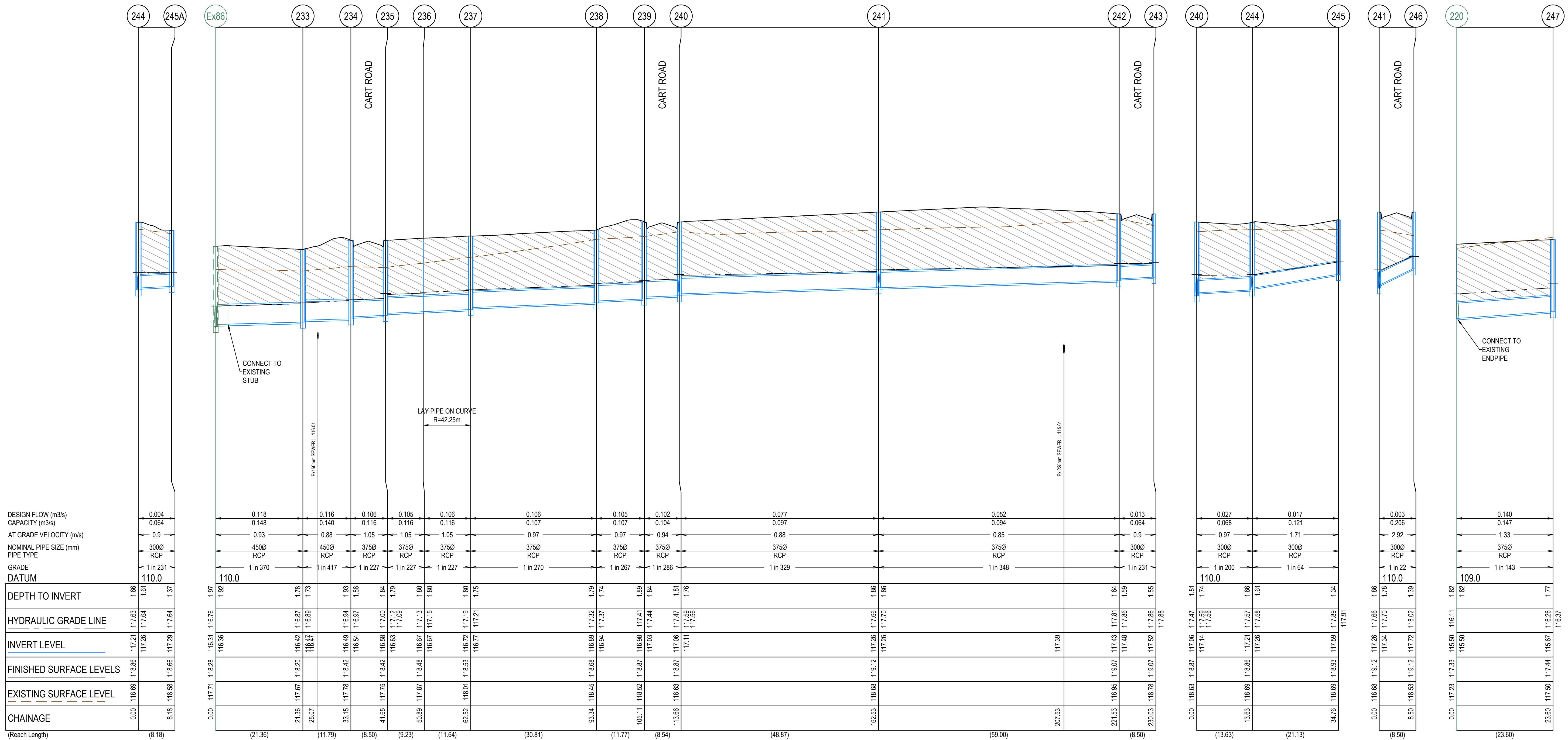
Westwood Estate - Stage 20 Melton City Council Road and Drainage Cross Sections: Jump Road Ch 180.74 - Ch 223.72				MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-252	SHEET No. 10 of 20	REVISION 0
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STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE

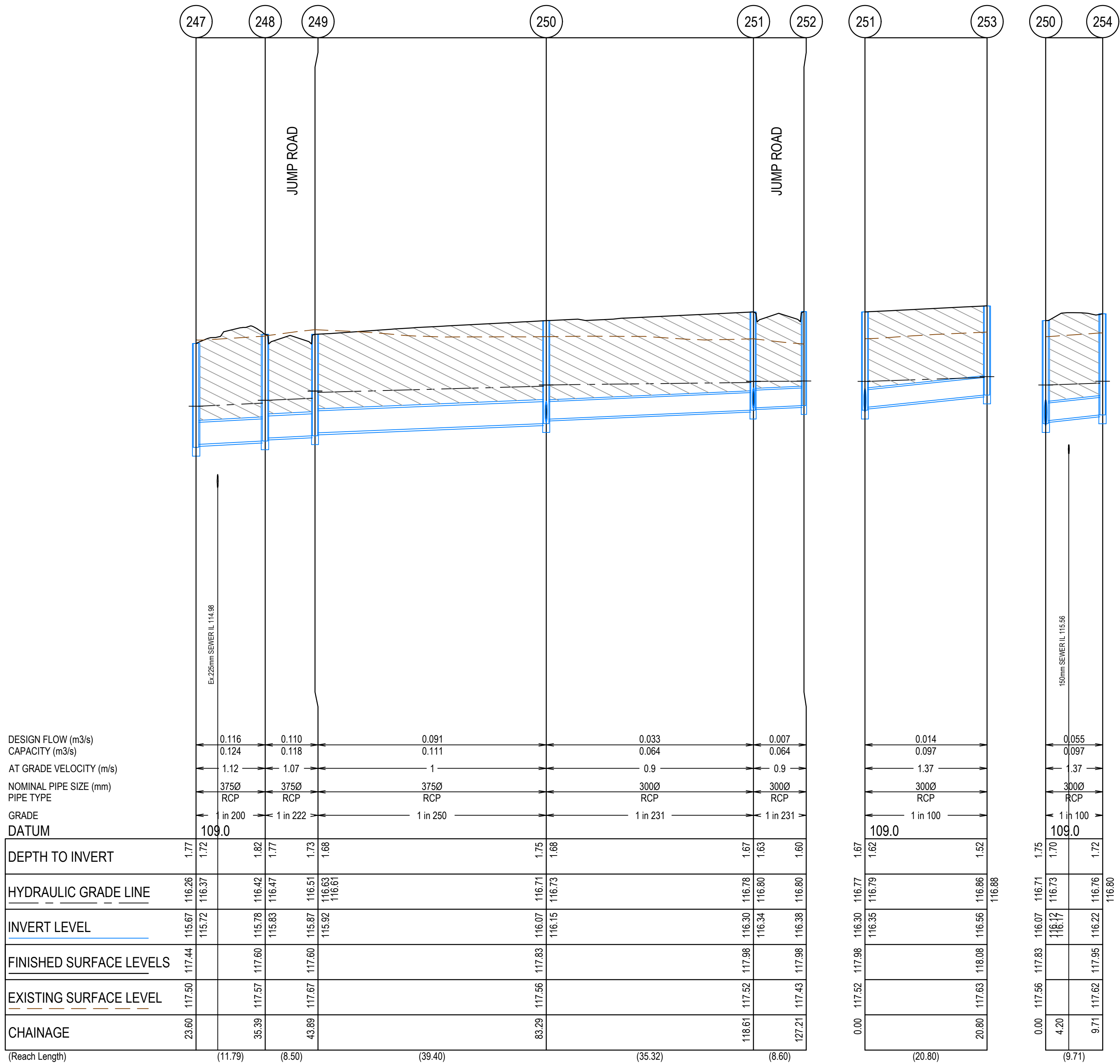


CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	PLAN OF SUB. NO.	PERMIT REF. NO.	ISSUED FOR CONSTRUCTION	Scale H1:500, V1:50 SCALE AS SHOWN AT A1	Member of the SMEC Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500	WESTWOOD	MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-301	SHEET No. 13 of 20	REVISION 0
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON										

CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON



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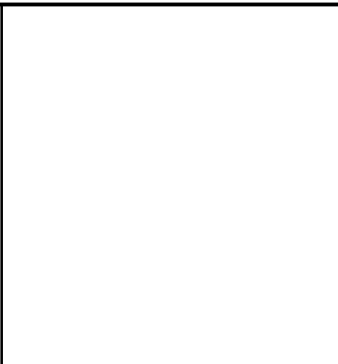
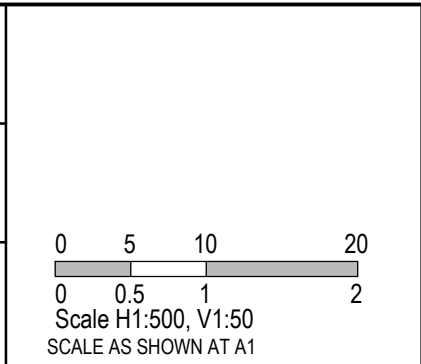
OHS Management AS/NZS 4801:2001
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PLAN OF SUB. NO.
PERMIT REF. NO.

ISSUED FOR CONSTRUCTION





Member of the Surlana Jurong Group
ABN 47 065 475 149

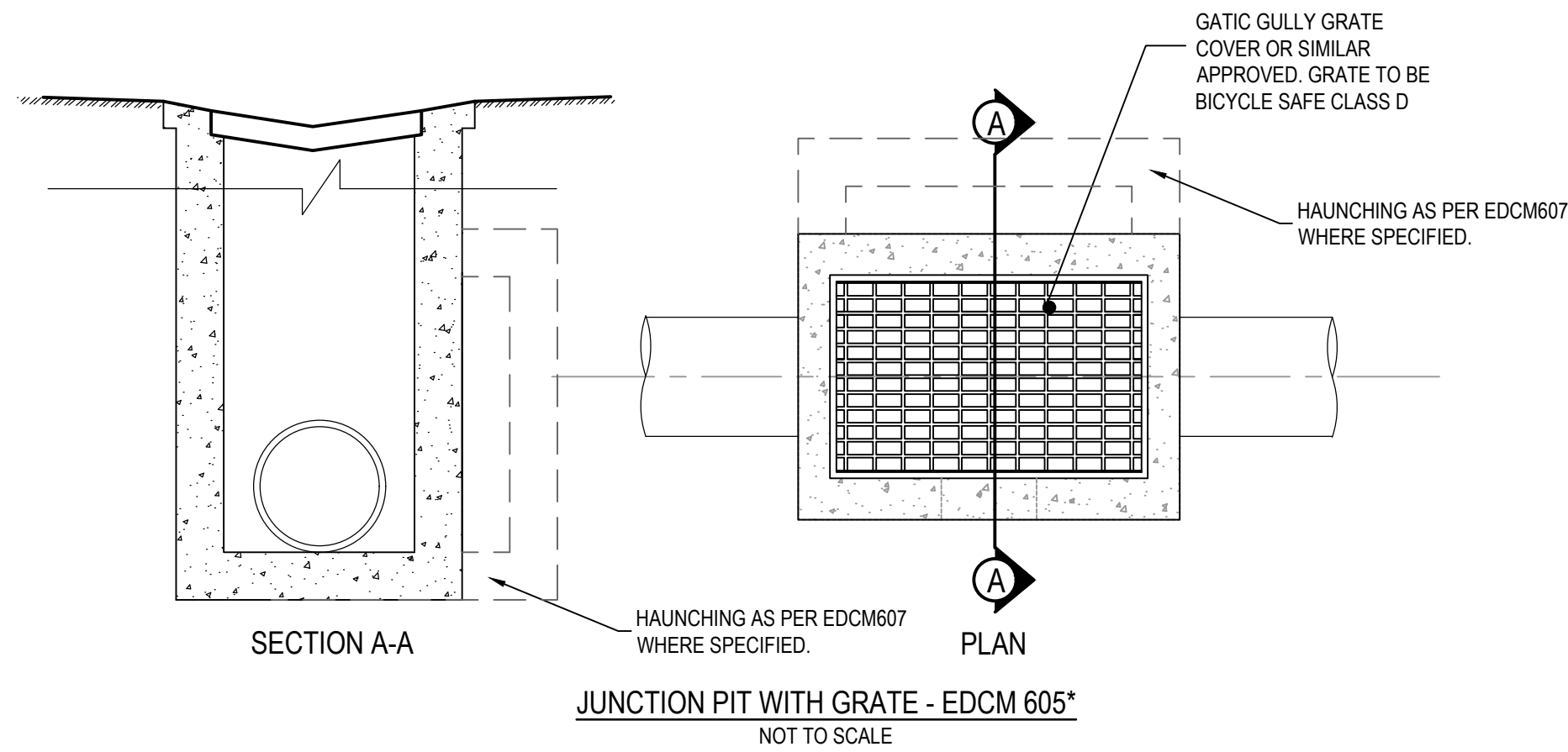
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500



Westwood Estate - Stage 20
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 2

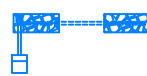
MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-302	SHEET No. 14 of 20	REVISION 0
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex.86	ExJUNCTION PIT	Ex900	Ex900	Ex375	116.434	Ex450	116.309	118.276	1.967	EDCM 601 & EDCM 607	CONNECT TO EXISTING STUB IN PIT
				450	116.359						
233	GRATED ENTRY PIT	900	900	450	116.466	450	116.416	118.198	1.782	EDCM 601 & EDCM 607	HAUNCH PIT TO 600x900 COVER
234	GRATED ENTRY PIT	900	900	375	116.545	450	116.495	118.423	1.928	EDCM 601 & EDCM 607	HAUNCH PIT TO 600x900 COVER
235	GRATED ENTRY PIT	600	900	375	116.632	375	116.582	118.423	1.84	EDCM 601 & EDCM 605	
237	GRATED ENTRY PIT	600	900	375	116.774	375	116.724	118.529	1.805	EDCM 601 & EDCM 605	
238	GRATED ENTRY PIT	600	900	375	116.938	375	116.888	118.675	1.787	EDCM 601 & EDCM 605	
239	GRATED ENTRY PIT	900	900	375	117.032	375	116.982	118.873	1.89	EDCM 601 & EDCM 607	HAUNCH PIT TO 600x900 COVER
240	GRATED ENTRY PIT	600	900	375	117.112	375	117.062	118.872	1.81	EDCM 601 & EDCM 605	
				300	117.137						
241	GRATED ENTRY PIT	600	900	375	117.261	375	117.261	119.117	1.857	EDCM 601 & EDCM 605	
				300	117.336						
242	DOUBLE GRATED ENTRY PIT	600	900	300	117.48	375	117.43	119.07	1.64	EDCM 602 & EDCM 605	
243	DOUBLE GRATED ENTRY PIT	600	900			300	117.517	119.07	1.553	EDCM 602 & EDCM 605	
244	JUNCTION PIT	600	900	300	117.255	300	117.205	118.863	1.658	EDCM 605	
				300	117.255						
245A	GRATED PIT	600	900			300	117.291	118.864	1.373	EDCM 605*	
245	GRATED PIT	600	900			300	117.585	118.925	1.34	EDCM 605*	
246	GRATED ENTRY PIT	600	900			300	117.723	119.117	1.395	EDCM 601 & EDCM 605	
Ex.220	ENDPIPE			375	115.505	Ex375	Ex115.505	117.328	1.824		CONNECT TO EXISTING ENDPIPE
247	GRATED ENTRY PIT	900	900	375	115.72	375	115.67	117.439	1.769	EDCM 601 & EDCM 607	HAUNCH PIT TO 600x900 COVER
248	GRATED ENTRY PIT	900	900	375	115.829	375	115.779	117.596	1.817	EDCM 601 & EDCM 607	HAUNCH PIT TO 600x900 COVER
249	GRATED ENTRY PIT	600	900	375	115.917	375	115.867	117.596	1.729	EDCM 601 & EDCM 605	
250	GRATED ENTRY PIT	600	900	300	116.15	375	116.075	117.829	1.754	EDCM 601 & EDCM 605	
				300	116.125						
251	GRATED ENTRY PIT	600	900	300	116.344	300	116.303	117.977	1.674	EDCM 601 & EDCM 605	
				300	116.353						
252	GRATED ENTRY PIT	600	900			300	116.382	117.984	1.602	EDCM 601 & EDCM 605	
253	GRATED ENTRY PIT	600	900			300	116.561	118.08	1.519	EDCM 601 & EDCM 605	
254	ENDPIPE					300	116.2222	117.946	1.724		CAP ENDPIPE FOR FUTURE CONNECTION

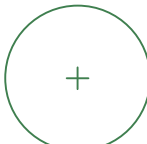


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001 Global-Mark.com.au®</div> <div>OHS Management AS/NZS 3801 Global-Mark.com.au®</div> <div>Environmental Management ISO 14001 Global-Mark.com.au®</div>			PLAN OF SUB. NO.	<div> SMEC Member of the Surbana Jurong Group ABN 47 066 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</div>	<div> WESTWOOD</div>	Westwood Estate - Stage 20 Melton City Council Road and Drainage Pit Schedule			
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON	PERMIT REF. NO.			MELWAYS REF			PROJECT / DRAWING No.	SHEET No.	REVISION	
<div>ISSUED FOR CONSTRUCTION</div>										356 B1			2152E-020-351	15 of 20	0	
SCALE AS SHOWN AT A1																

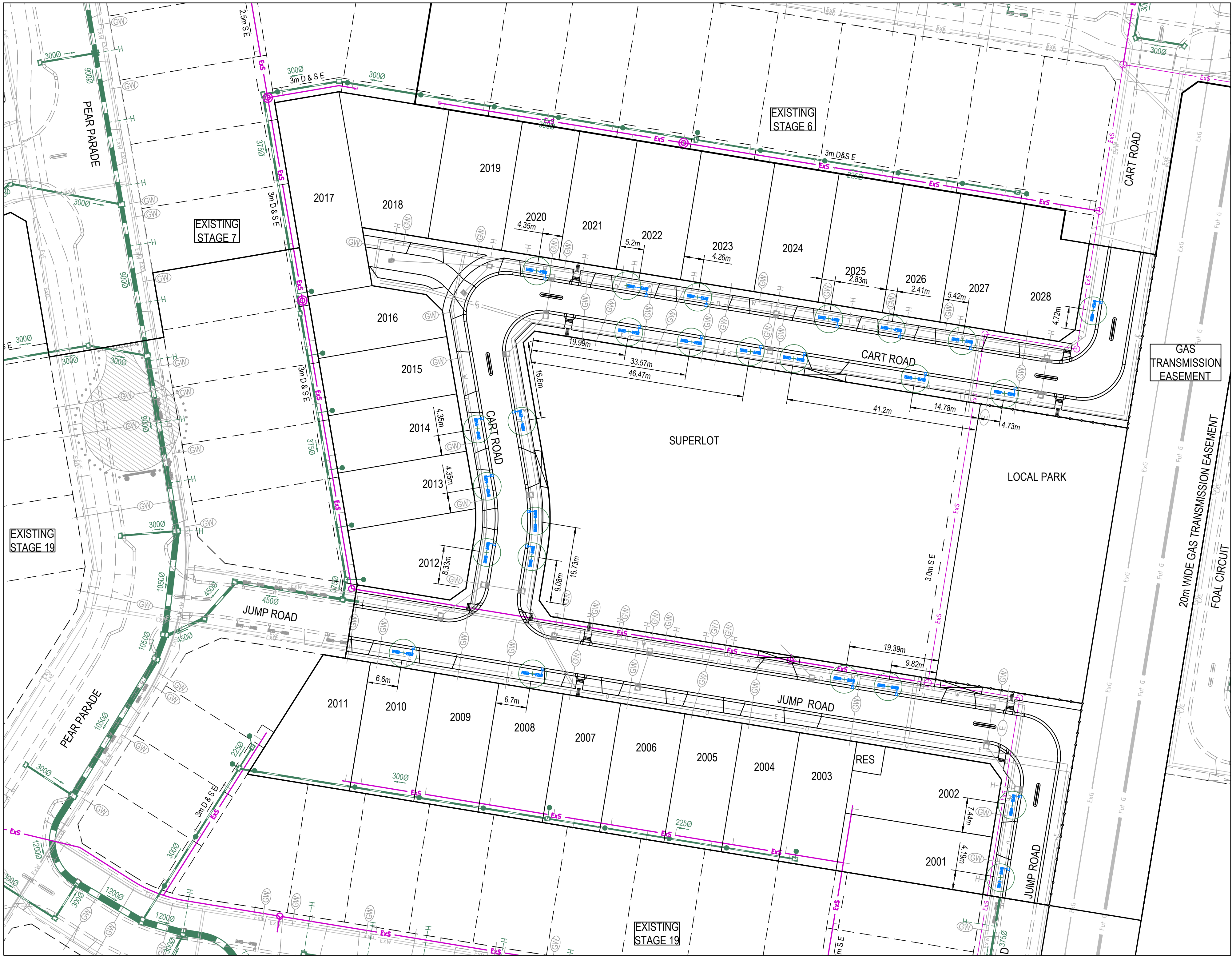
LEGEND



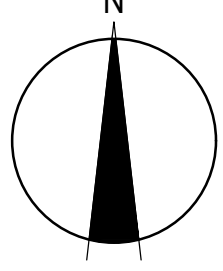

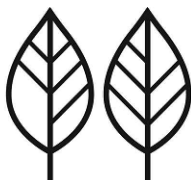



KERB INLET DIVERSION PASSIVE STREET TREE IRRIGATION - REFER TO SHEET 362 FOR DETAILS



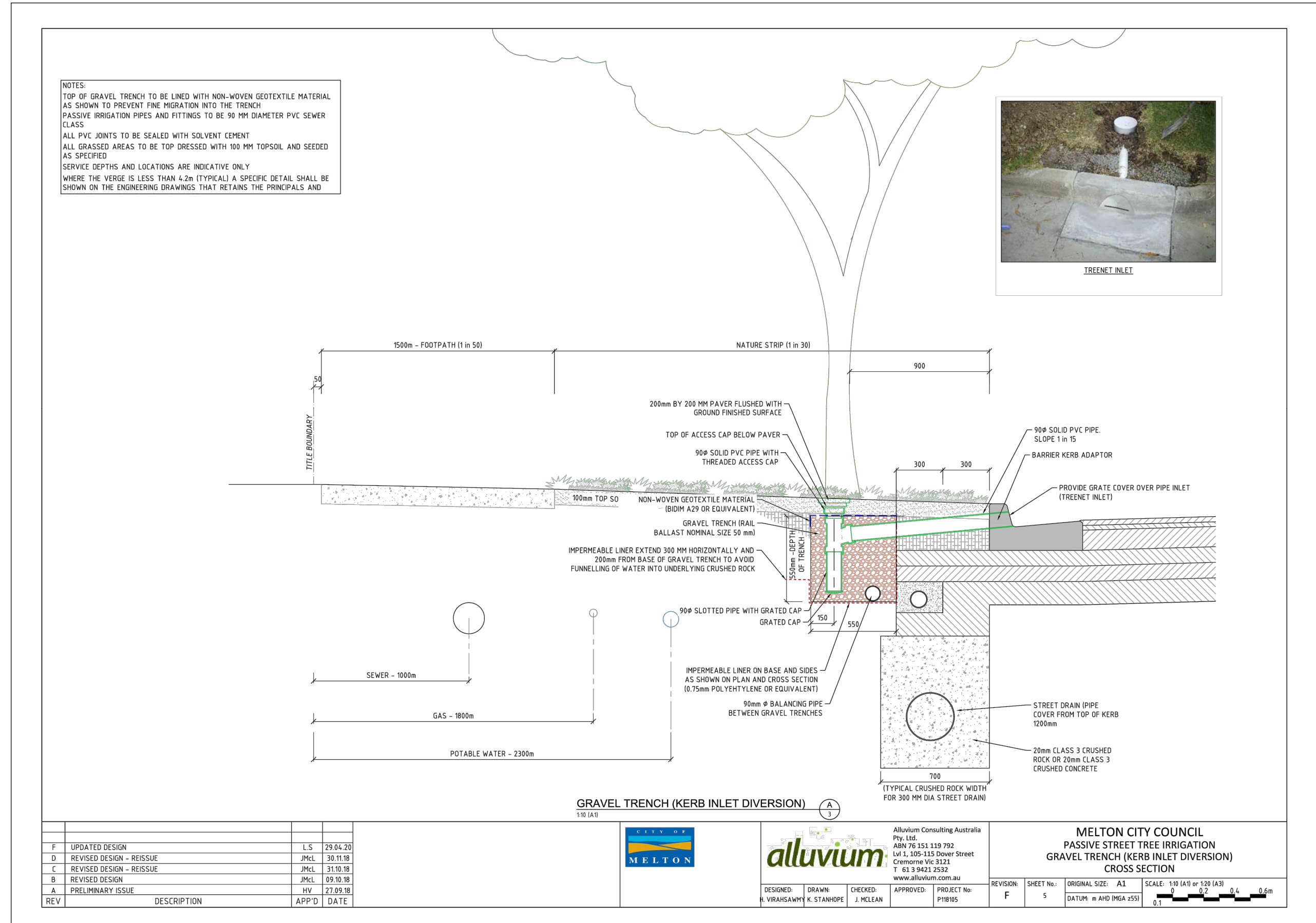
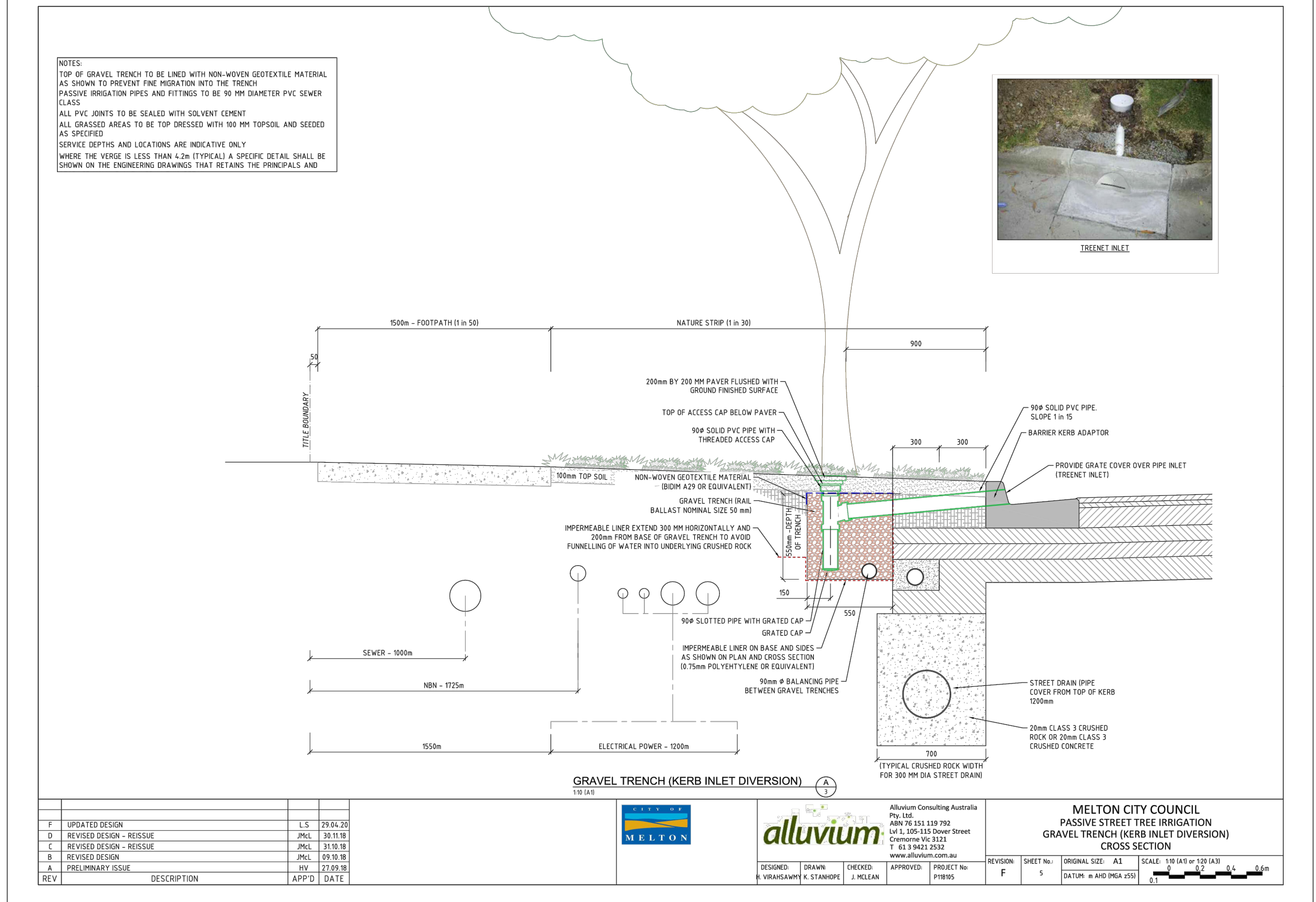
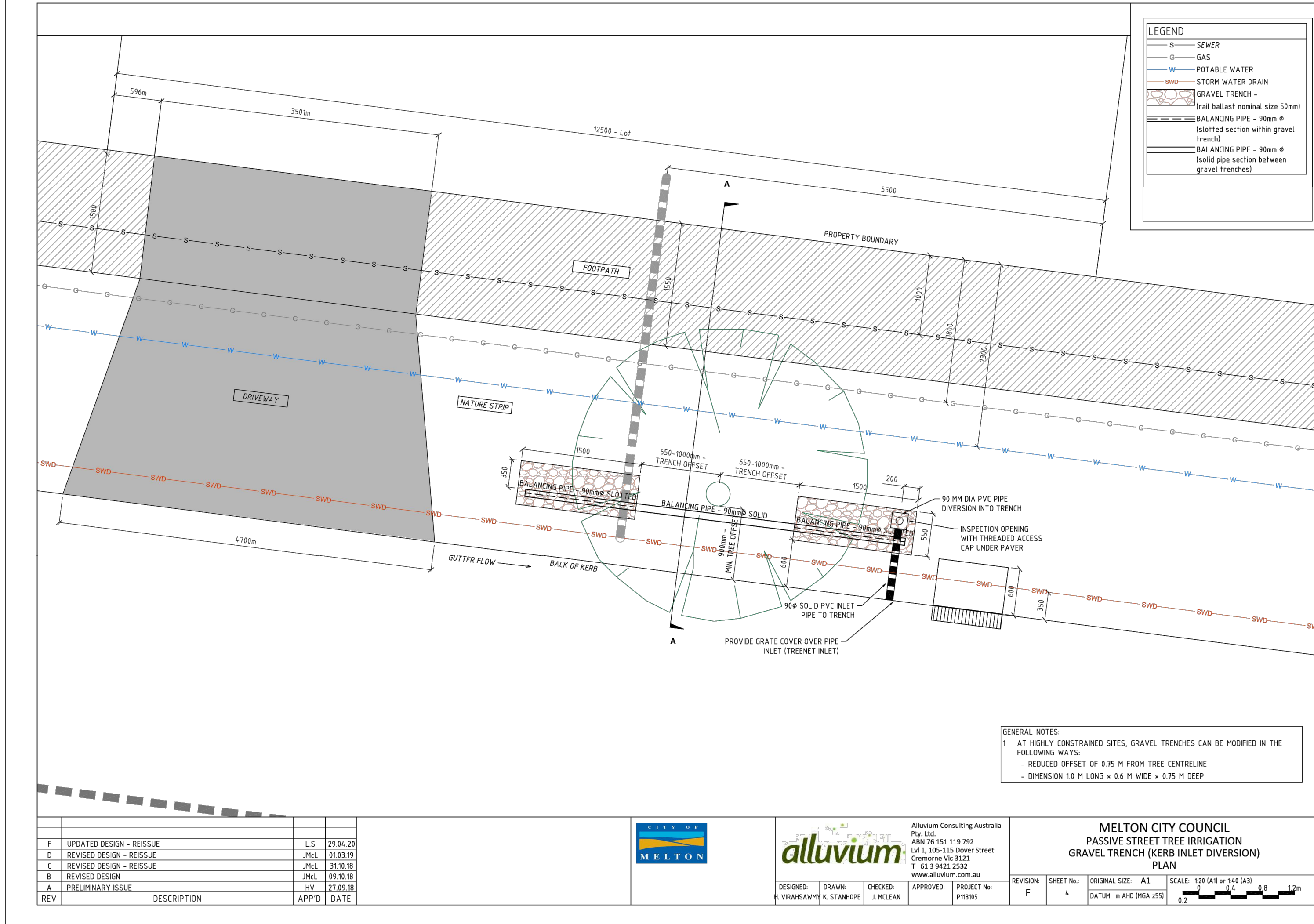
TREE LOCATION - REFER TO LANDSCAPING PLANS FOR DETAIL



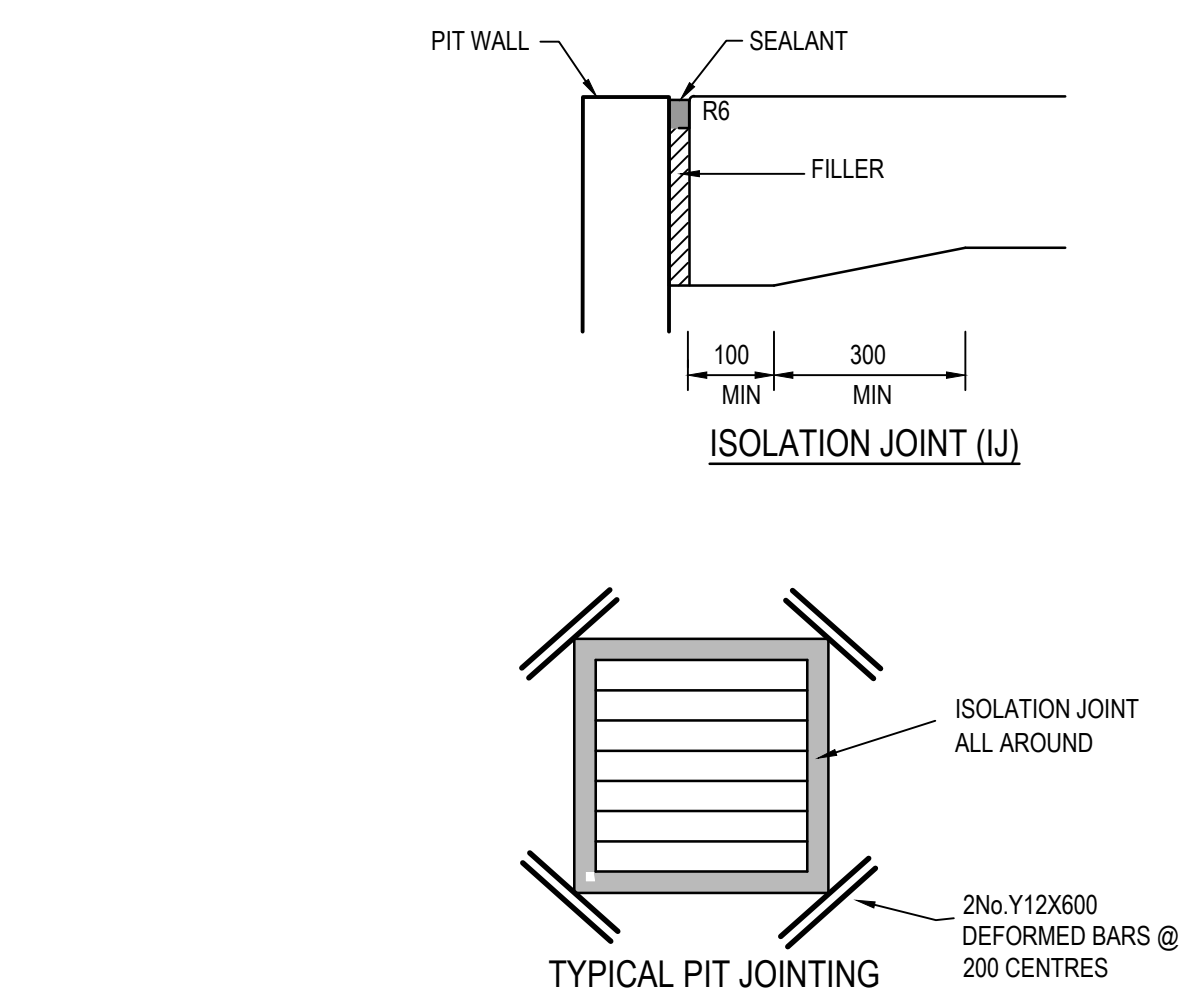
WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div>Quality Management ISO 9001 Global-Mark.com.au®</div> <div>OH&S Management AS/NZS 3801 Global-Mark.com.au®</div> <div>Environmental Management ISO 14001 Global-Mark.com.au®</div>		PLAN OF SUB. NO.	<div>0 5 10 20 Scale 1:500 SCALE AS SHOWN AT A1</div>	<div>N </div>	<div>SMEC Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</div>	<div>WESTWOOD</div>	Westwood Estate - Stage 20 Melton City Council Road and Drainage Passive Irrigation Plan		MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-361	SHEET No. 16 of 20	REVISION 0
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON	<div></div>		PERMIT REF. NO.										

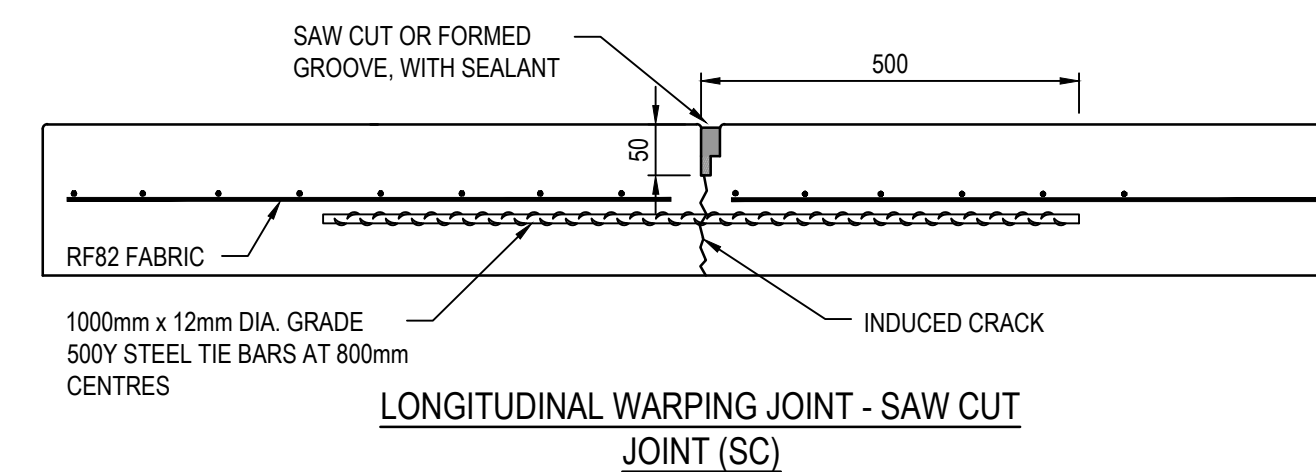
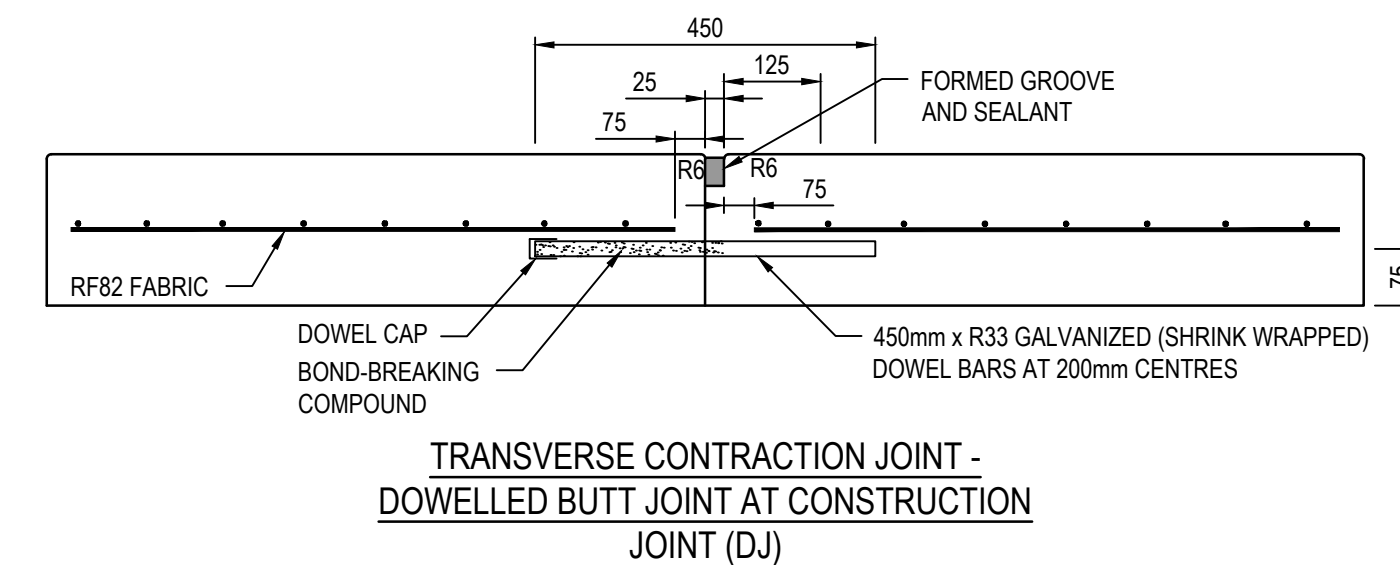
ISSUED FOR CONSTRUCTION





REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	PLAN OF SUB. NO.	PERMIT REF. NO.	ISSUED FOR CONSTRUCTION	SCALE AS SHOWN AT A1	SMEC	WESTWOOD	MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
0	03.11.21	ISSUED FOR CONSTRUCTION	C.SILVA	A.PERKINS	K.CONG	C.WILKINSON							356 B1	2152E-020-362	17 of 20	0

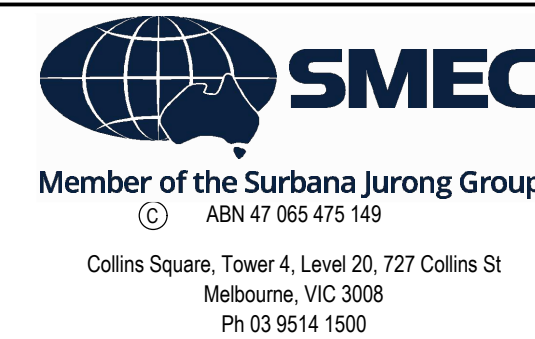
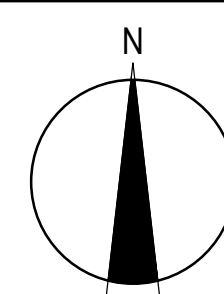
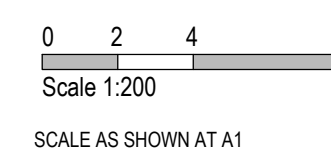


1. CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.



NOT TO SCALE

 <p>Quality Management - ISO 9001</p> <p>Global-Mark.com.au®</p>	 <p>OHS Management - AS/NZS 4801</p> <p>Global-Mark.com.au®</p>	 <p>Environmental Management - ISO 14001</p> <p>Global-Mark.com.au®</p>	<p>PLAN OF SUB. NO.</p> <p>PERMIT REF. NO.</p>
<p>ISSUED FOR CONSTRUCTION</p>			



Westwood Estate - Stage 20
Melton City Council
Road and Drainage
Concrete Jointing Details

MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-020-412	SHEET No. 19 of 20	REVISION 0
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PHASE	DISCIPLINE CODE		RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	"Residual Risk Likelihood (0-5)"	"Residual Risk Consequen ce (0-5)"	"Residual Risk Rating"	RESIDUAL RISK OWNER
	20		Road Furniture / Roadside features										
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
Operational	RF	Road Furniture	Headwalls	Potential vehicle conflict within clear zone	Road Authority	Increased potential for accidents	Establish adequate clear zone provision	Adequate barrier provided as per appropriate standard where within clear zone. Culvert headwall selection in accordance with authority standard	N	2	4	8	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
Operational	DR	Drainage	Culvert Endwalls/Headwalls	Potential for falling from height	Relevant Authority	Increased potential for accidents	Fencing to be provided where culverts/headwalls are at height in accordance with relevant authority standards	Allow for fencing in Design Process	N	1	4	4	Authority
Operational	DR	Drainage	Culvert Endwall/Headwall Outlets	Children playing in large pipes / watercourses and access for maintenance	Relevant Authority	Increased potential for accidents	Grate provided to authority standards	Design in accordance with authority and manufacturers standards	N	2	5	10	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										
Construction	SE	Sewer	Sewer Manhole located adjacent to Retaining Wall Alignment	Falling from height during construction or commissioning of adjacent sewer manholes	Contractor	Falling from a height	Provide temporary fencing until such time that permanent fencing is constructed	Provide fencing (at heights) during design process	N	1	1	1	Constructor
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
Maintenance	SE	Sewer	Pump Station Access	Lack of safe access for maintenance	Relevant Authority	Increased risk to maintenance crews	Provide safe working conditions for maintenance	Design pump station in location for easy access	N	2	4	8	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
Construction	GA	Gas	Existing Gas Main	New works will be constructed adjacent to live gas main within existing easement. Potential for loss of gas supply.	Relevant Authority	Personal injury, vehicle damage, increased potential for accidents	Ensure design complies with relevant standard for clearance to the existing gas main if crossing. Ensure adequate temporary fencing is constructed.	Pavement depth considered for areas crossing the existing gas main and road height set accordingly to ensure adequate cover. Where excavating in vicinity of existing main ensure proofing of service depth	N	5	3	15	Authority