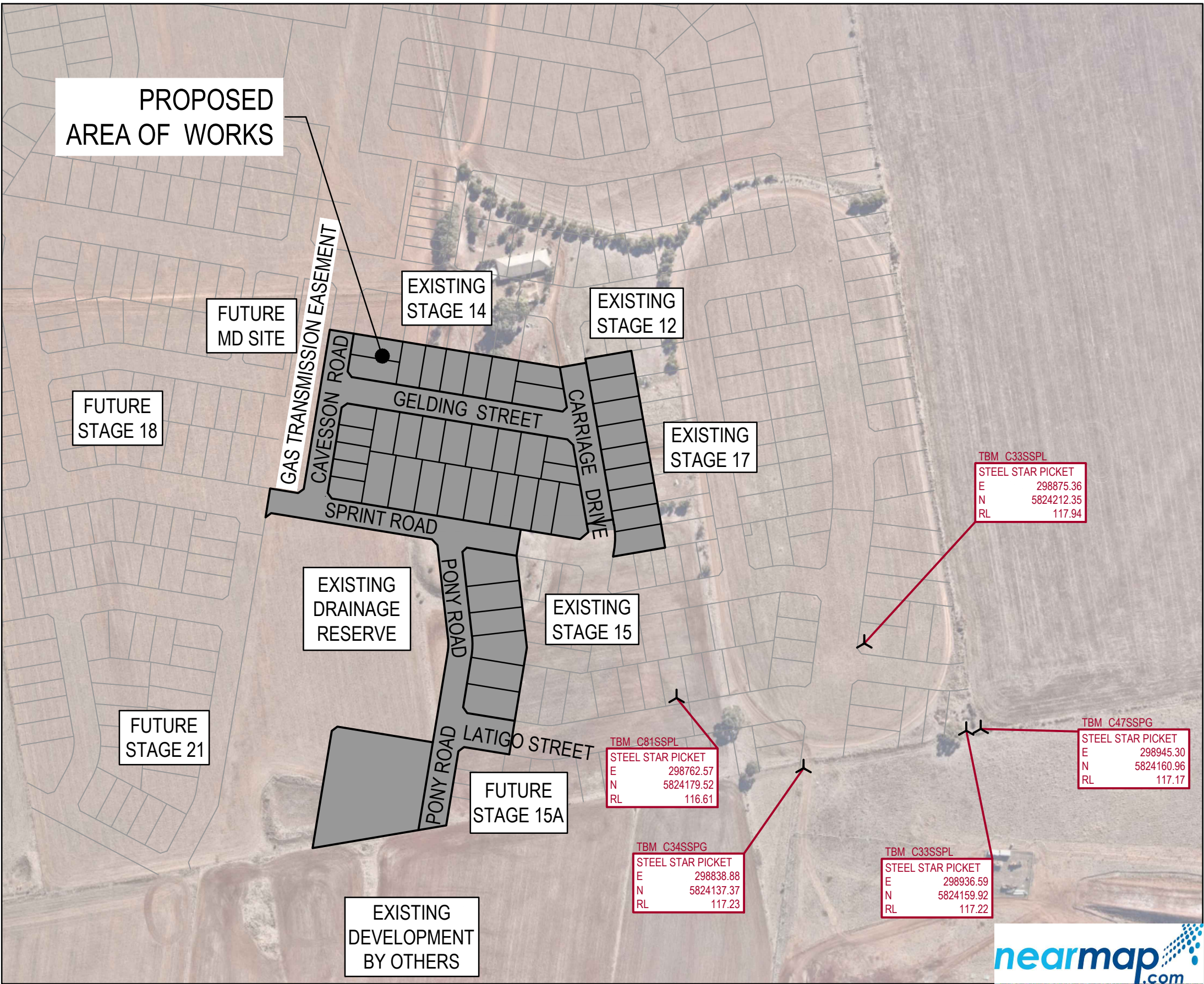


Westwood

Stage 13

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APA CONDITIONS FOR WORKS NEAR TRANSMISSION PIPELINES

- MINIMUM CLEARANCES FOR DESIGN PURPOSES AND/OR CONSTRUCTION
- ALL WORKS SHALL COMPLY TO APA DOCUMENT "580-POL-L-0001 REV.4 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.3

SURVEY CONTROL POINTS				
POINT	EASTING	NORTHING	RL (AHD)	DESCRIPTION
C81SSPL	298762.57	5824179.52	116.61	STEEL STAR PICKET
C83SSPL	298875.36	5824212.35	117.94	STEEL STAR PICKET
C33SSPL	298936.59	5824159.92	117.22	STEEL STAR PICKET
C34SSPG	298638.88	5824137.37	117.23	STEEL STAR PICKET
C47SSPG	298945.3	5824160.96	117.17	STEEL STAR PICKET

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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-13-500

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




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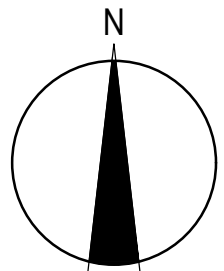
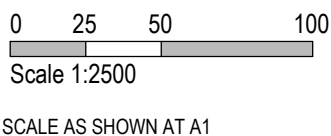
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GENERAL NOTES

- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE CONDITIONS OF CONTRACT AND CURRENT MELTON CITY COUNCIL SPECIFICATIONS AND GAA STANDARD DRAWINGS TO THE SATISFACTION OF THE SUPERVISING ENGINEER OR HIS REPRESENTATIVE.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THEY SHALL ERECT AND MAINTAIN ALL SHORING, PLANKING AND STRUTTING, DEWATERING DEVICES, BARRICADES, SIGNS, LIGHTS, ETC. NECESSARY TO KEEP WORKS IN A SAFE AND STABLE CONDITION, AND TO PROTECT THE PUBLIC FROM HAZARDS ASSOCIATED WITH THE WORKS.
- THE CONTRACTOR SHALL:
 - COMPLY WITH THE SAFETY REQUIREMENTS OF THE MINES ACT, GENERAL REGULATIONS AND STATUTORY RULES, AND THE MINES (TRENCHES) REGULATIONS 1982.
 - NOTIFY THE OCCUPATIONAL HEALTH AND SAFETY AUTHORITY OF HIS INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR HIS DEPUTY AS REQUIRED BY THE REGULATIONS IS IN ATTENDANCE WHEN TRENCHING OPERATIONS ARE IN PROGRESS.
- THE CONTRACTOR IS TO NOTIFY COUNCIL AND ALL SERVICE AUTHORITIES SEVEN (7) DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL RELEVANT SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- TREES MARKED ON THE APPROVED PLANS FOR REMOVAL MUST BE REMOVED FROM THE SITE PRIOR TO THE COMMENCEMENT OF WORKS. NO EXCAVATION SHALL BE CARRIED OUT WITHIN 5.0M OF ANY EXISTING TREE UNTIL APPROVAL HAS BEEN GIVEN BY COUNCIL'S SUPERVISING OFFICER.
- ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE EXCEPT KERB RETURNS AND COURTHEADS, WHERE LIP OF KERB CHAINAGES ARE SPECIFIED. ALL DIMENSIONS AND RADII ARE GIVEN TO THE LIP OF KERB. DO NOT SCALE OFF THESE DRAWINGS. WRITTEN DIMENSIONS ONLY SHALL BE USED.
- THE CONTRACTOR WHEN ENGAGED IN BLASTING OPERATION, SHALL NOT BLAST WITHIN 4.5M OF AN EXISTING LINE OF WATER, GAS OR SEWER PIPES OR WITHIN 15M OF ANY COMPLETED PART OF THE WORKS WITHOUT THE CONSENT OF THE ENGINEER AND MUST OBTAIN ALL RELEVANT PERMITS.
- THE CONTRACTOR IS TO OBTAIN THE NECESSARY ROAD OPENING PERMIT PRIOR TO UNDERTAKING ANY WORKS WITHIN A PREVIOUSLY CONSTRUCTED ROADWAY.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- THE CONTRACTOR SHALL CO-OPERATE WITH OTHER AUTHORITIES AND SHALL ENSURE THAT ALL SERVICES ARE INSTALLED PRIOR TO THE FINAL PAVEMENT COURSE.
- ANY EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- TBM'S TO BE MAINTAINED AND PROTECTED BY THE CONTRACTOR FOR THE DURATION OF THE WORKS.
- ALL CONCRETE TO BE USED IN THE CONTRACT WORKS SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 25MPA AT 28 DAYS.
- THE CONTRACTOR IS TO ENSURE THAT HIS CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT DISCHARGE ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES. THE CONTRACTOR IS TO CONSTRUCT SEDIMENT TRAPS AT THE ENDS OF ALL TEMPORARY CHANNELS AND CATCH DRAINS. THEY ARE TO BE MAINTAINED THROUGHOUT THE DURATION OF WORKS AND MAINTENANCE TO BE TRANSFERRED TO DELFIN ON COMPLETION OF THE WORKS.
- ALL BATTERS TO BE 1 IN 6 UNLESS OTHERWISE INDICATED. FILLING IN PROPERTIES AND ROAD RESERVE IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER TO BE STRIPPED FROM FILL SITE PRIOR TO FILLING. WHERE FILL IS IN EXCESS OF 300MM IN DEPTH, THE FILL IS TO BE LEVEL 1 IN ACCORDANCE WITH AS3798. EARTH SHOULD 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 MGC 202.
- CONDUIT LOCATIONS ARE SUBJECT TO AMENDMENT AND CONDUITS SHALL NOT BE LAID UNTIL WRITTEN APPROVAL IS GIVEN BY THE SUPERINTENDENT. CONDUITS TO BE PLACED A MINIMUM OF 5M FROM BOUNDARIES/EASEMENTS AND TO THE SATISFACTION OF THE SUPERINTENDENT. BOTH KERBS ARE TO BE MARKED WITH THE LETTERS G,W,E AND T ABOVE CONDUIT LOCATIONS AS PER STANDARD DRAWING MSC 104. DW & NDW CONDUITS TO BE INSTALLED IN SEPARATE DUCTS TO WESTERN WATER REQUIREMENT.
- ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 3 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 THICK CONCRETE CENTRALLY REINFORCED WITH SL72 MESH ON 50MM COMPACTED DEPTH 20MM CLASS 3 FCR BASE AS PER STANDARD DRAWING EDCM 401.
- ALL RESIDENTIAL DRIVEWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH EDCM 501 & EDCM 502. SINGLE DRIVEWAYS TO BE OFFSET 0.75M FROM SIDE BOUNDARY OR EASEMENT.
- ALL ALLTMENTS 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 ALLTMENTS 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 AS3996. FIBRE GLASS LIDS TO BE CLASS B OR ABOVE. NOT GREATER THAN 25KG IN WEIGHT FOR 600X900 PIT IMPRINTED WITH 'AS3996 CLASS B' AND WEIGHT IN KILOGRAMS, IN 25MM LETTERING.
- BATTERS STEEPER THAN 1IN6 SHALL BE HYDRO MULCHED.
- THE CONTRACTOR MUST:
 - OBTAIN A "WATER CARTER PERMIT" FROM WESTERN WATER'S PROPERTY SERVICES TEAM ON 9218 5560 TO TAKE AND USE ANY WATER FROM WESTERN WATER'S SYSTEM FOR CONSTRUCTION PURPOSES; COMPLY WITH THAT WATER CARTER PERMIT AT ALL TIMES INCLUDING COMPLYING WITH CURRENT PERMANENT WATER SAVING RULES AND APPLYING FOR AND COMPLYING WITH ANY EXCEPTIONS TO THOSE RULES.
 - ALL 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 THE 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 THE NEAR LOWER EDGE.

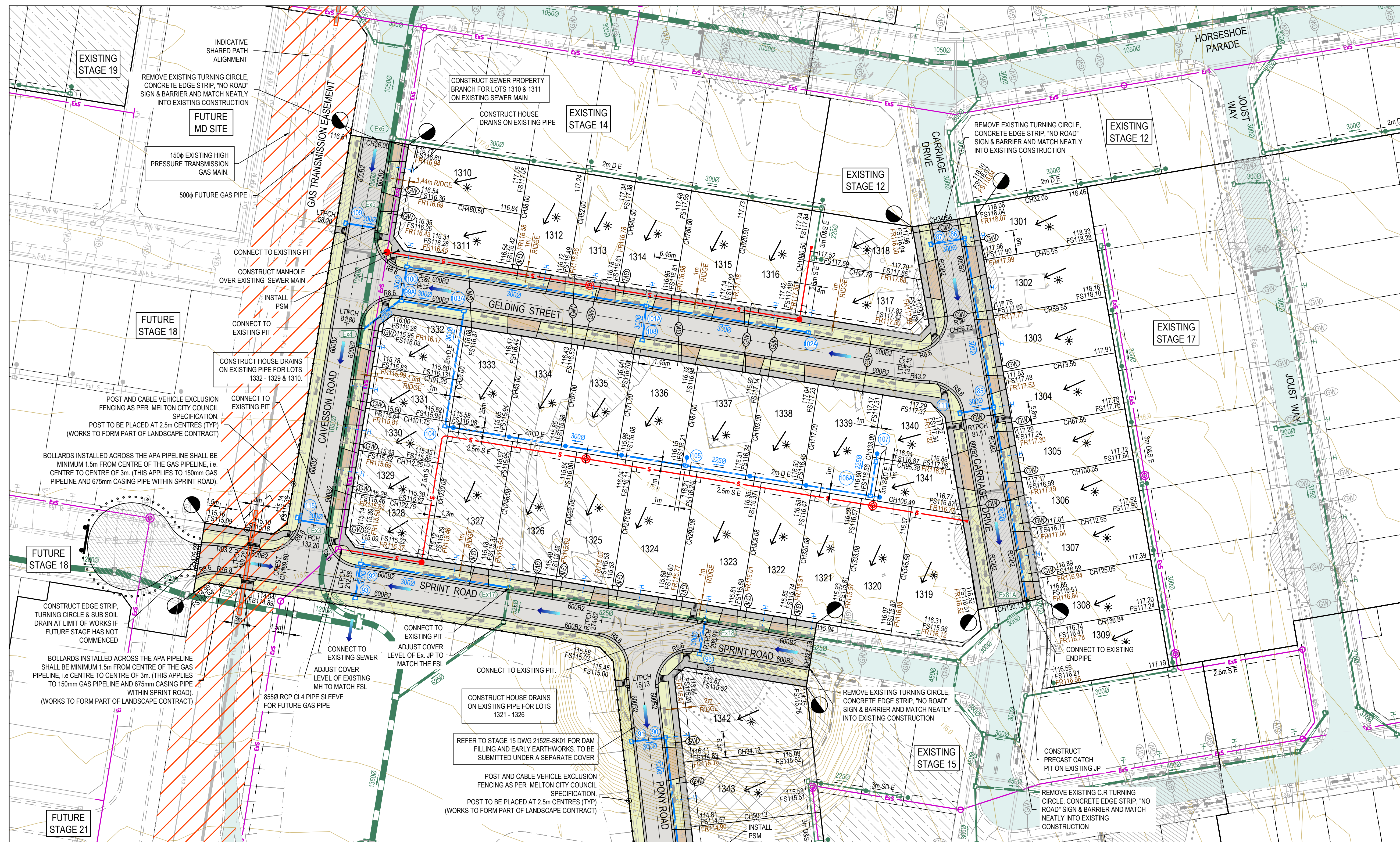
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A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON

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Westwood - Stage 13
Melton City Council
Road and Drainage
Cover Plan & General Notes

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
356 B1	2152E-013-101	01 of 27	A









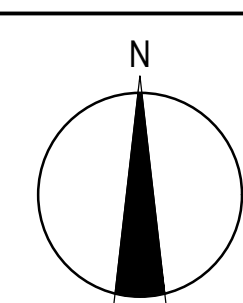
ROAD LAYOUT TABLE								
ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
CARRIAGE DRIVE	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
GELDING STREET	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
SPRINT ROAD (LOT 1319 to 1323)	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
SPRINT ROAD (LOT 1324 to 1327)	14.50	6.40	7.30	7.60	B2	B2	4.20	2.70
CAVESSON ROAD	14.50	6.40	7.30	7.60	B2	B2	2.70	4.20
PONY ROAD	14.50	6.40	7.30	7.60	B2	B2	2.70	4.20
PONY ROAD (ADJACENT FUTURE STAGE 15A LOTS)	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
LATIGO STREET	20.50	6.40	7.30	7.60	B2	B2	8.70	4.20

SERVICES OFFSET TABLE				
ROAD NAME	GAS	WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
CARRIAGE DRIVE	1.90 E	2.40 E	2.30 W	1.80 W
GELDING STREET	1.90 N	2.40 N	2.30 S	1.80 S
SPRINT ROAD (LOT 1319 to 1323)	1.90 N	2.40 N	2.30 S	1.80 S
SPRINT ROAD (LOT 1324 to 1327)	1.90 N	2.40 N	1.25 S	0.50 S
CAVESSON ROAD	1.90 E	2.40 E	1.25 W	0.50 W
PONY ROAD	1.90 E	2.40 E	1.25 W	0.50 W
PONY ROAD (ADJACENT FUTURE STAGE 15A LOTS)	1.90 E	3.00 E	2.60 W	1.85 W
LATIGO STREET	1.90 N	2.40 N	3.65 N	2.85 N

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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NOTE:
PASSIVE IRRIGATION TO BE INSTALLED BY LANDSCAPE
CONTRACTOR. PRINCIPAL CONTRACTOR TO INSTALL KERB
INLET COMPONENT ONLY.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	  			PLAN OF SUB. NO.
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON	  			PS905211S PERMIT REF. NO. PA2017/5710
SUBJECT TO APPROVAL										



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SCALE AS SHOWN AT A1



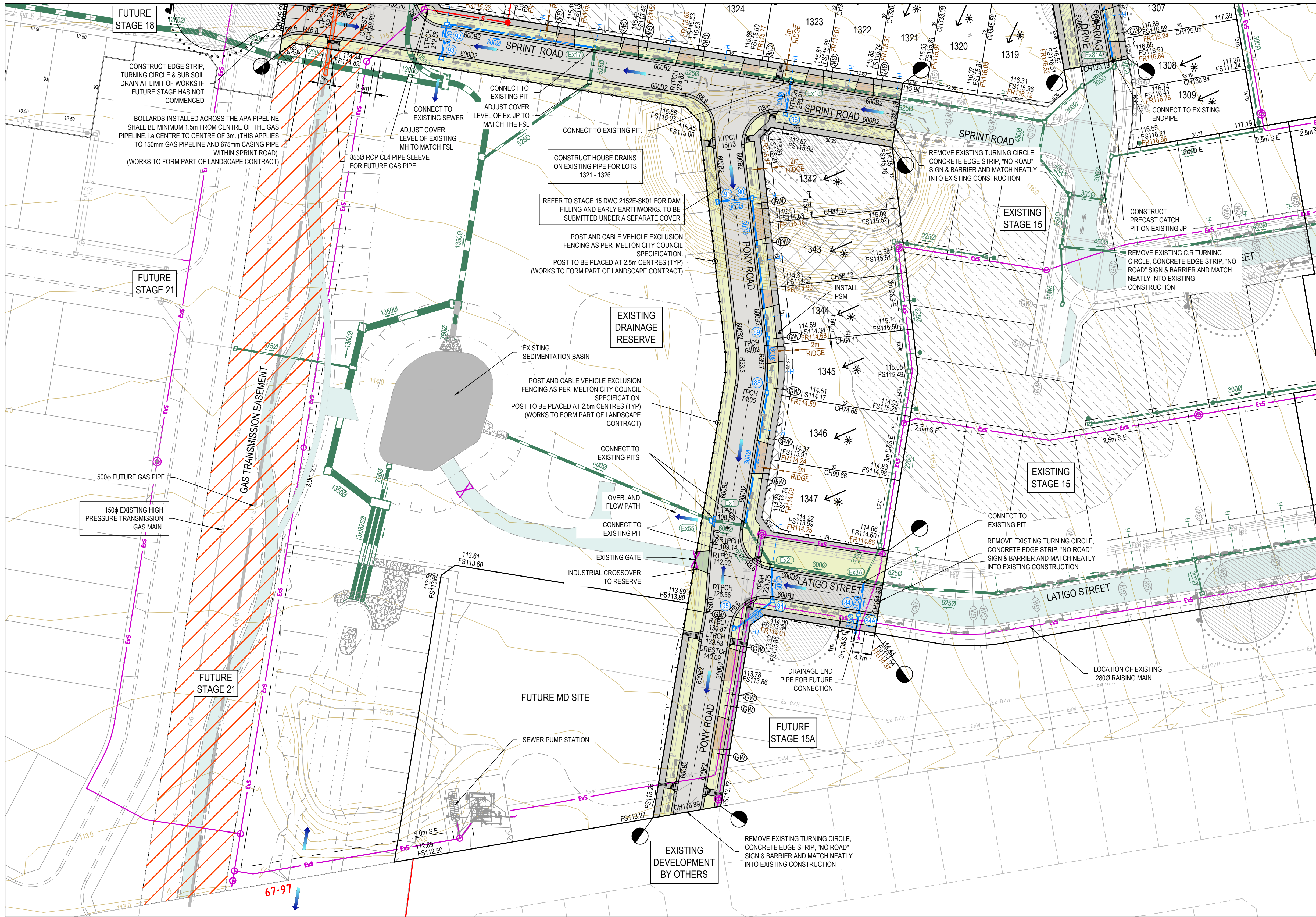
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500



Westwood - Stage 13
Melton City Council
Road and Drainage
Layout Plan - 1

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REFER SHEET 2152E-013-111 FOR CONTINUATION



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
	PROPOSED PASSIVE STREET TREE IRRIGATION

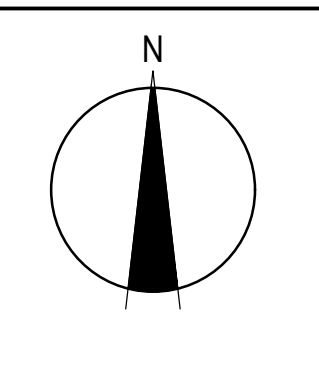
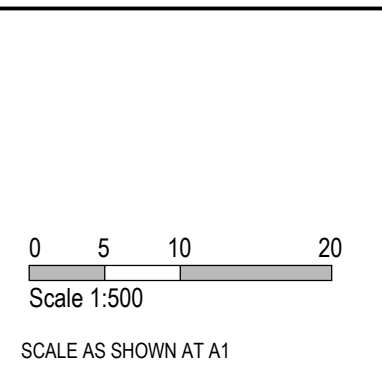
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A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON

PLAN OF SUB. NO.
PS905211S
PERMIT REF. NO.
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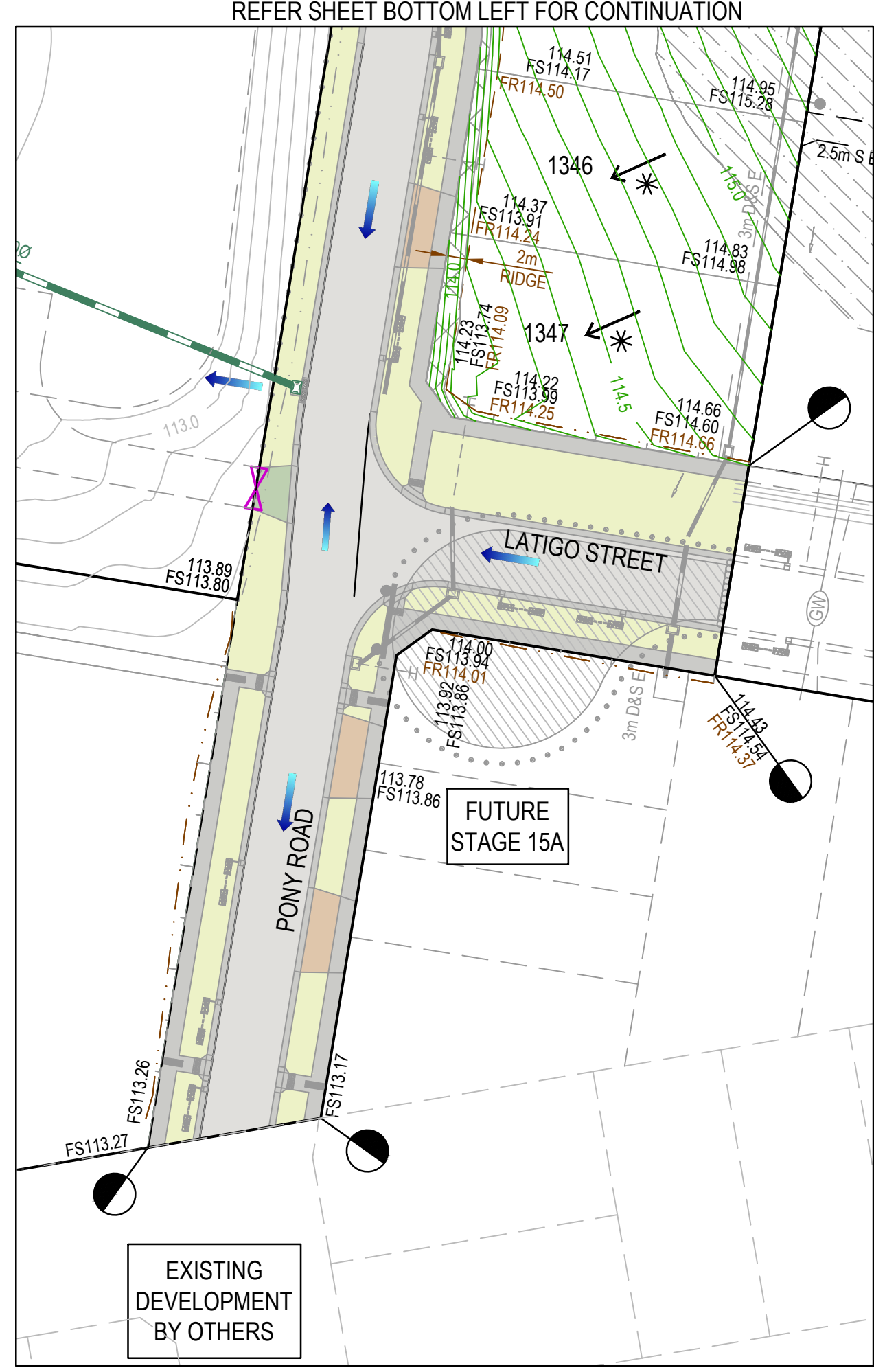
SMEC

Member of the Surbana Jurong Group
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Melbourne, VIC 3008
Ph 03 9514 1500

WESTWOOD

MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-112	SHEET No. 03 of 27	REVISION A
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Westwood - Stage 13
Melton City Council
Road and Drainage
Layout Plan - 2



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
	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

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 A	DATE 10.05.22	AMENDMENT / REVISION DESCRIPTION ISSUED TO COUNCIL FOR APPROVAL	DRAFTER N.SHRESTHA	DESIGNER A.PERKINS	CHECKER A.PERKINS	APPROVER C.WILKINSON	PLAN OF SUB. NO. PS905211S	PERMIT REF. NO. PA2017/5710	SCALE 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	Westwood - Stage 13 Melton City Council Road and Drainage Earthworks & Retaining Wall Setout Plan	MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-131	SHEET No. 04 of 27	REVISION A
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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 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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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON



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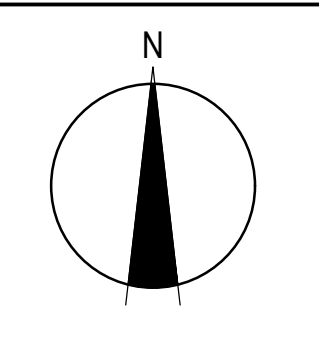
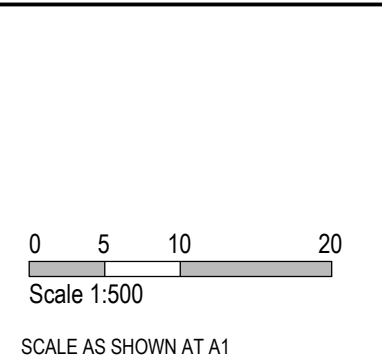



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PLAN OF SUB. NO.
PS905211S

PERMIT REF. NO.
PA2017/5710

SUBJECT TO APPROVAL





SMEC

Member of the Surbana Jurong Group

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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
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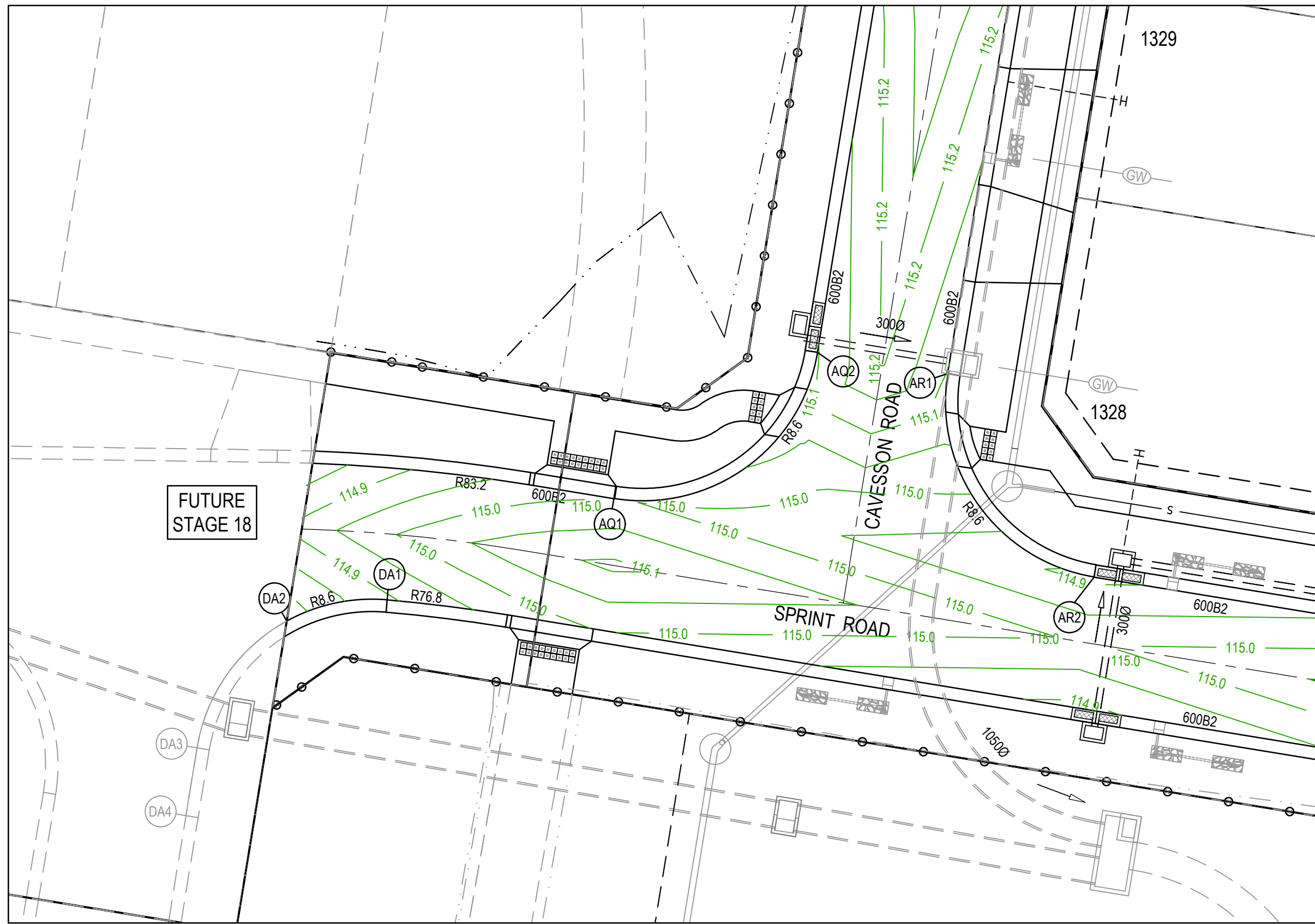
Westwood - Stage 13
Melton City Council
Road and Drainage
Signage & Linemarking Plan

MELWAYS REF
356 B1

PROJECT / DRAWING No.
2152E-013-171

SHEET No.
05 of 27

REVISION
A



HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL114

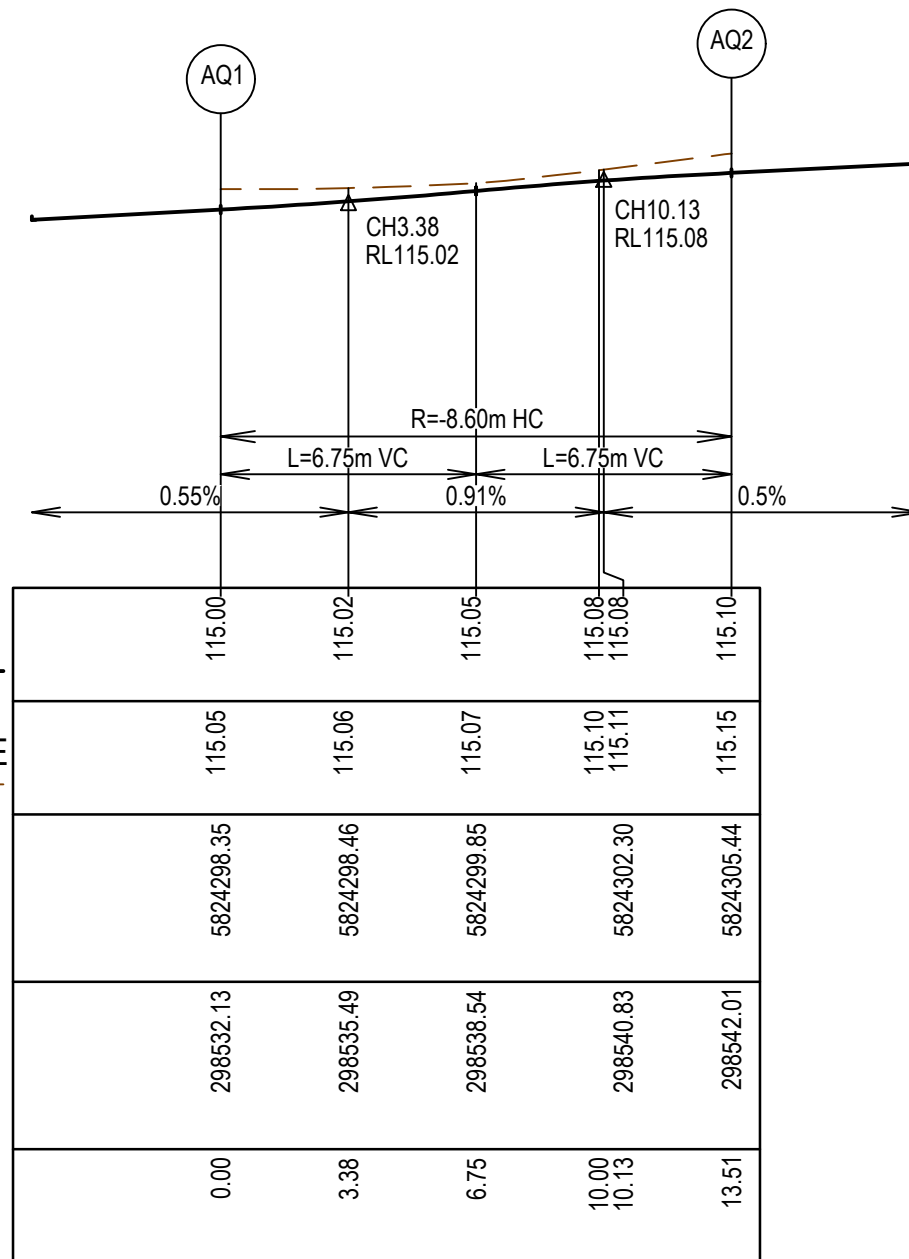
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EXISTING SURFACE

NORTHING

EASTING

CHAINAGE



LIP LINE AQ

HORIZONTAL GEOMETRY

VERTICAL GEOMETRY

DATUM RL114

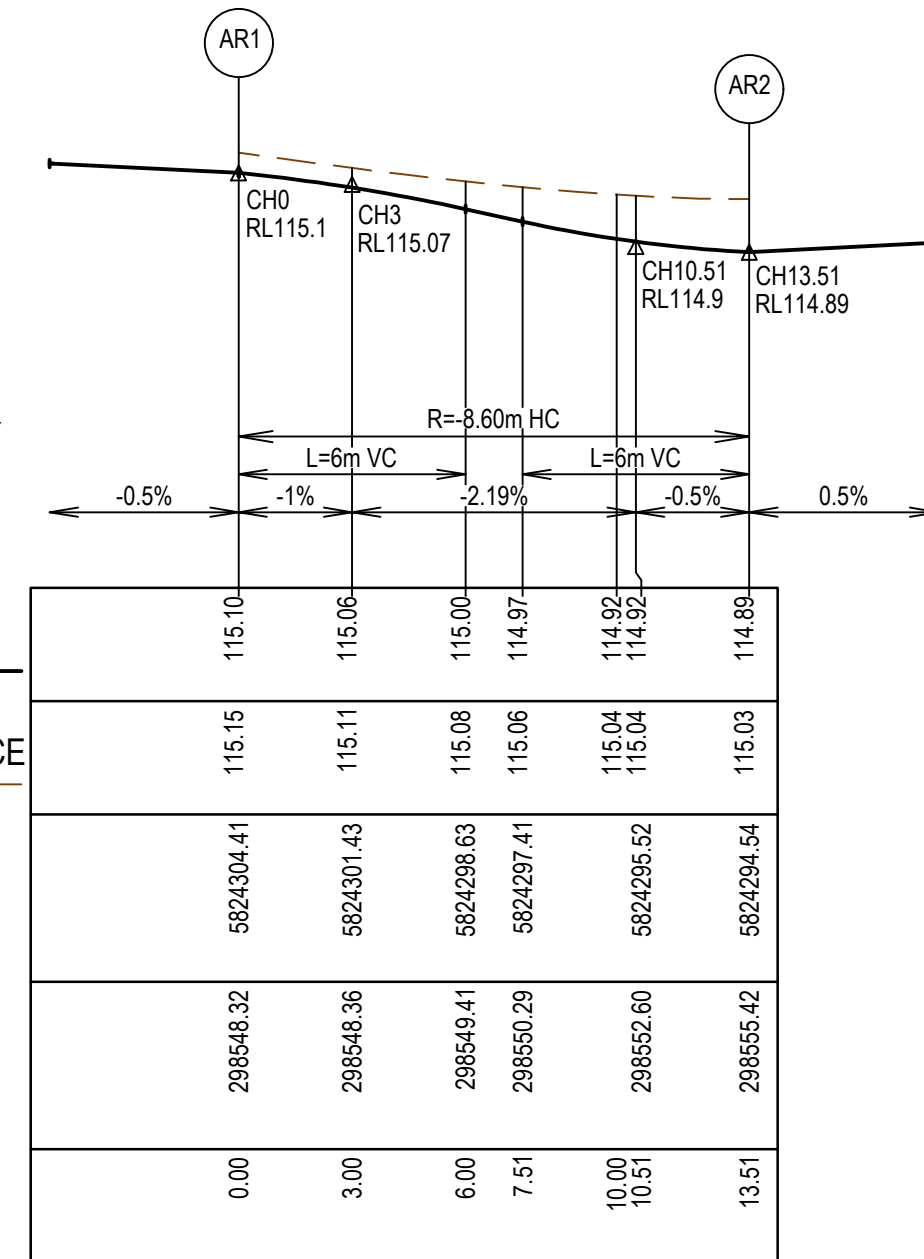
DESIGN LEVEL

EXISTING SURFACE

NORTHING

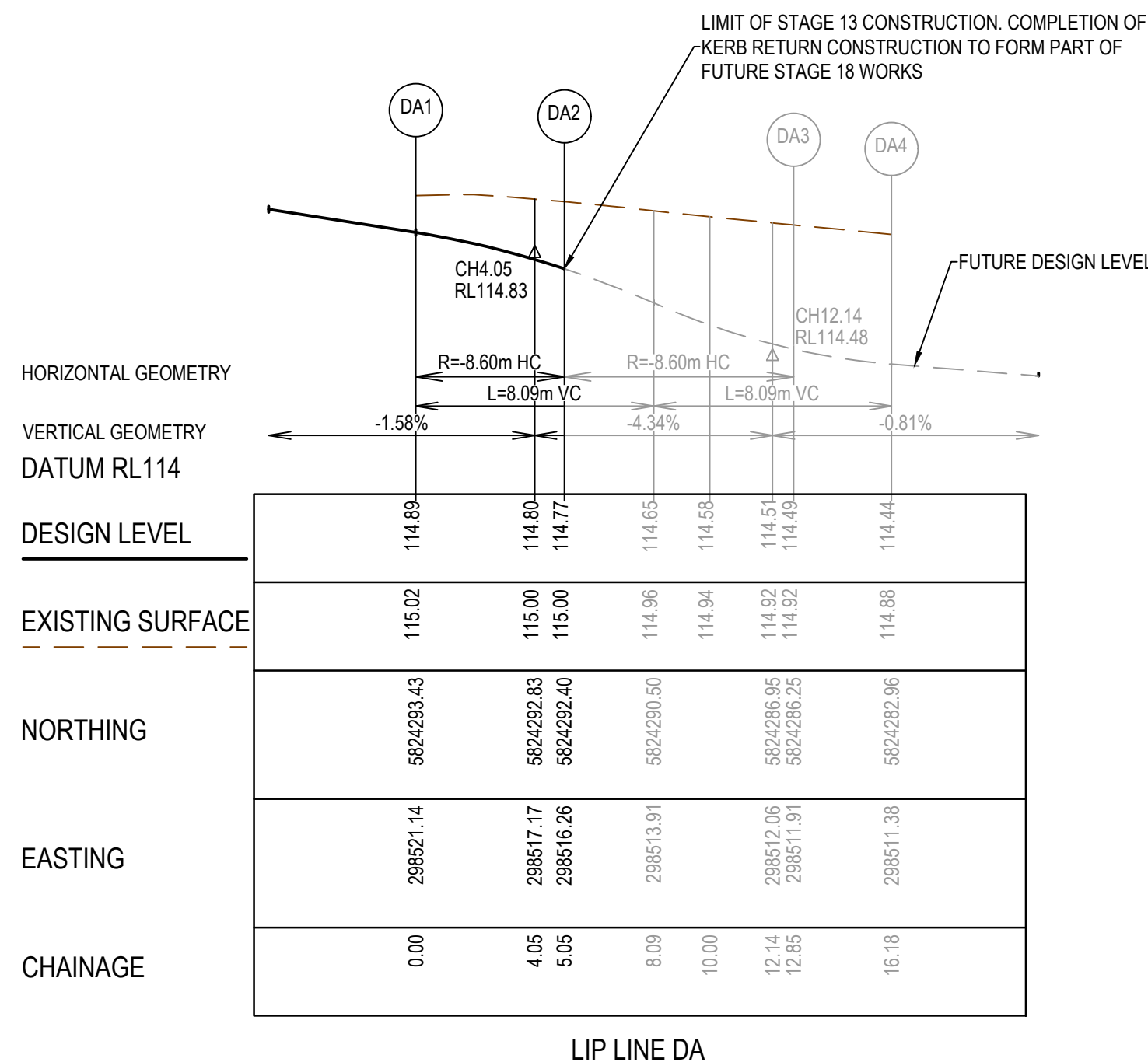
EASTING

CHAINAGE



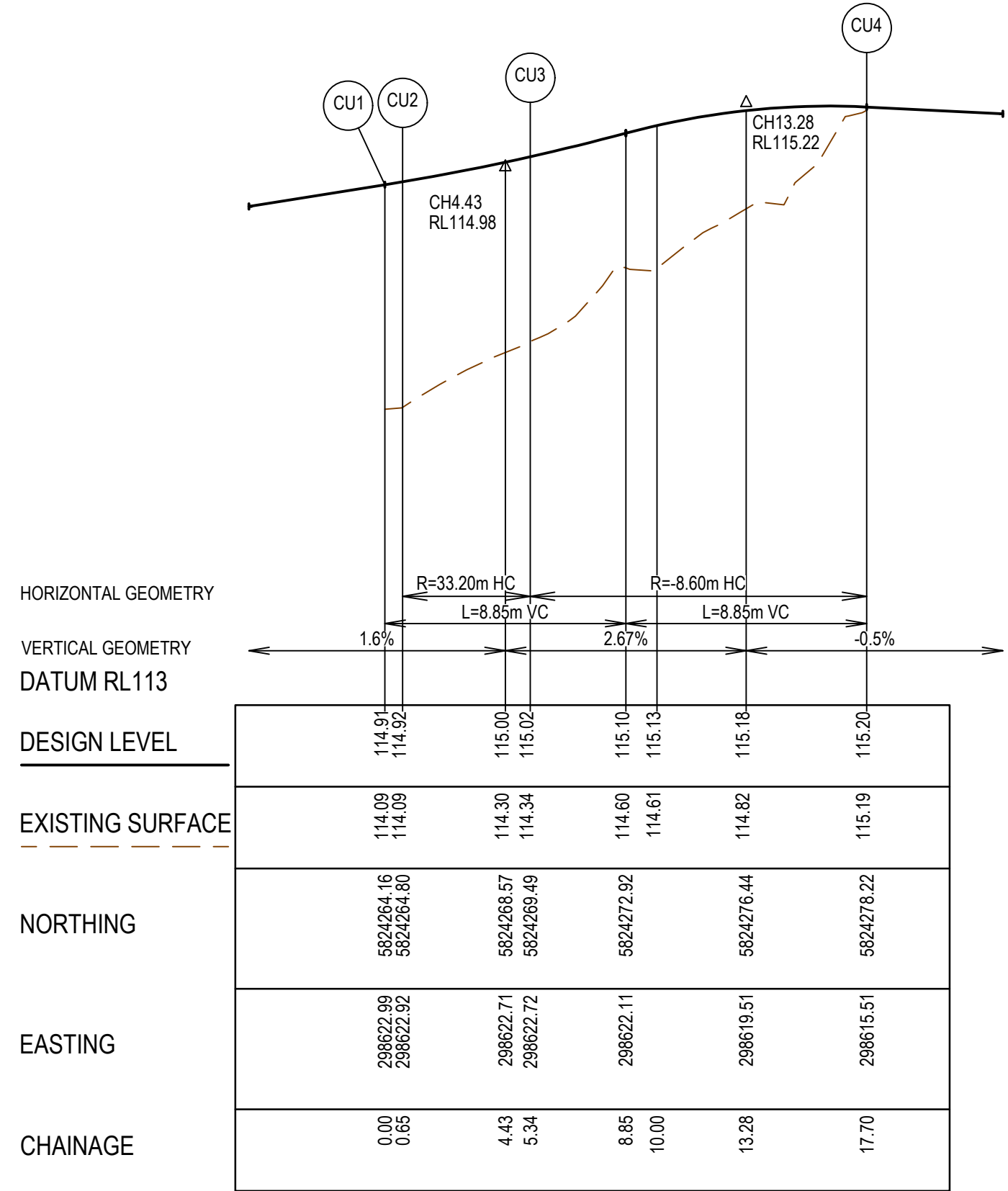
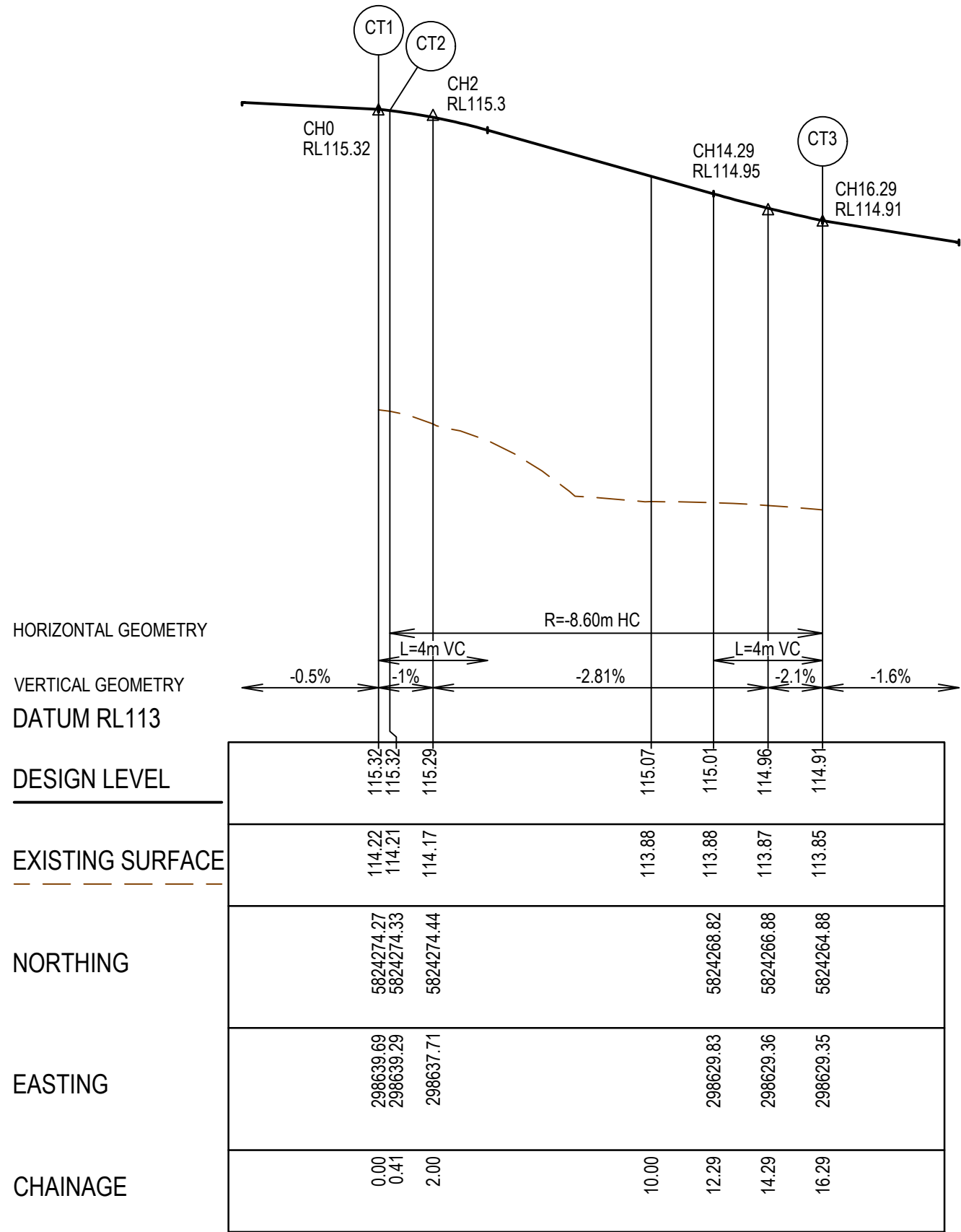
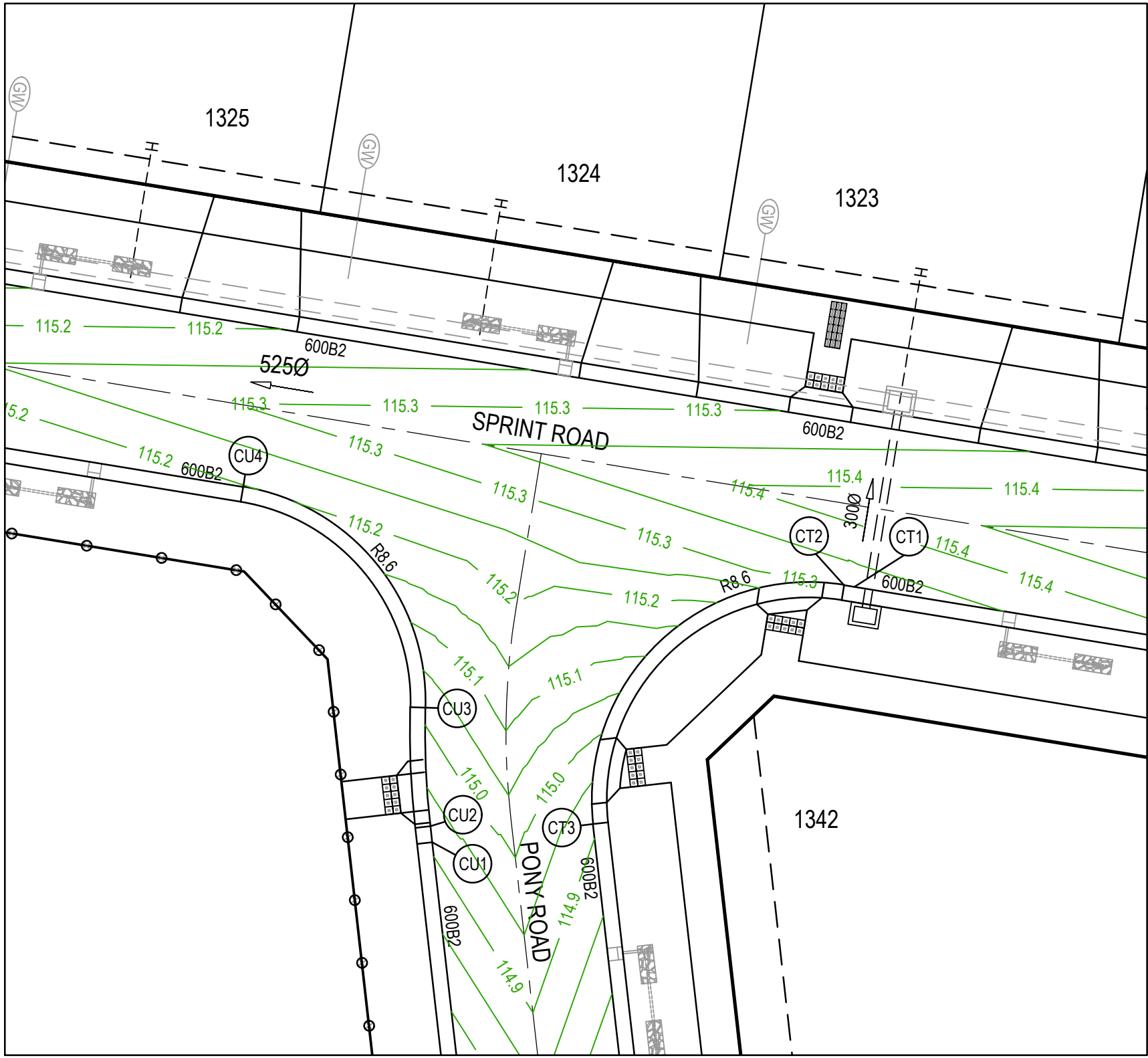
LIP LINE AR

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



LIP LINE DA

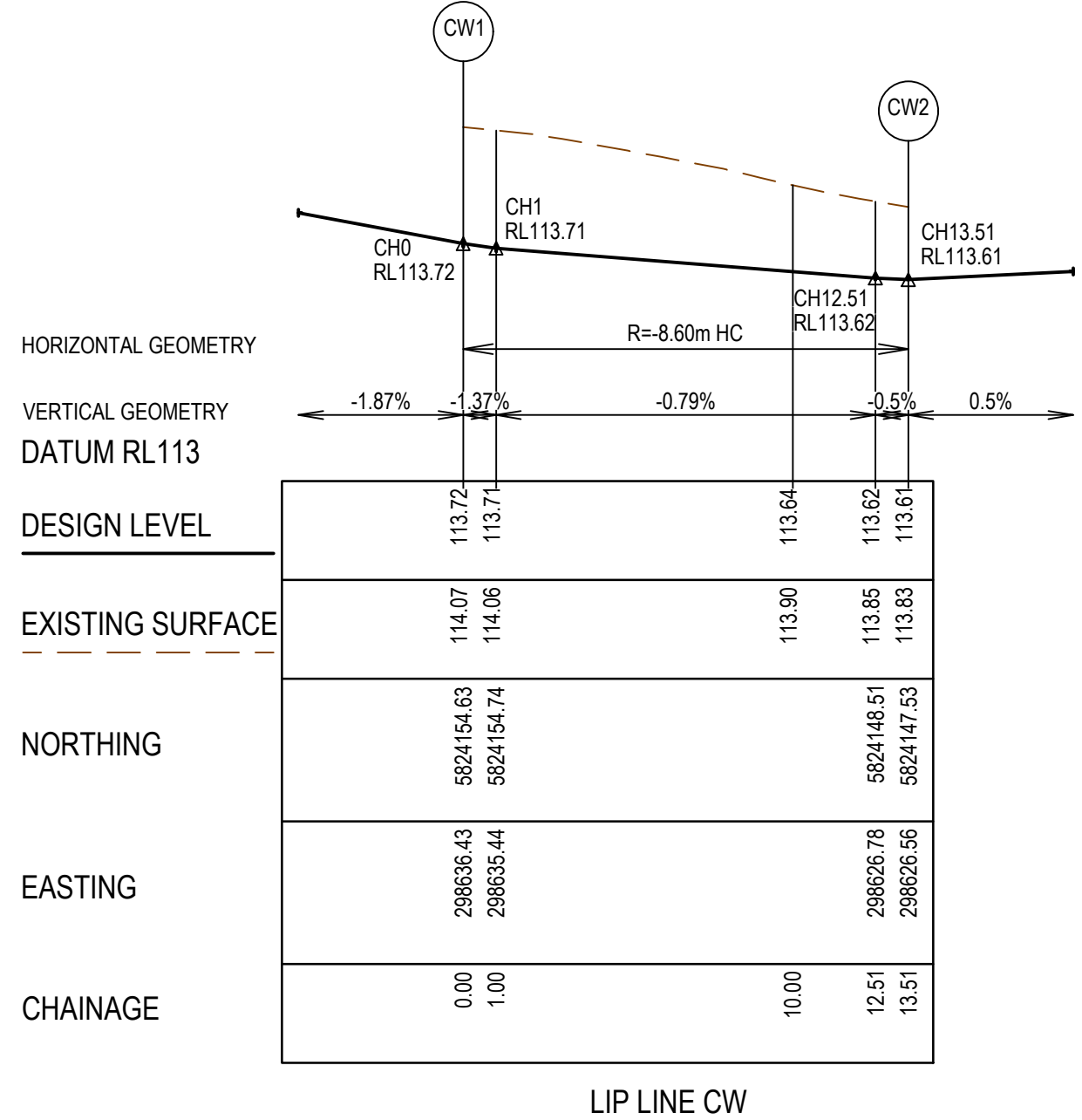
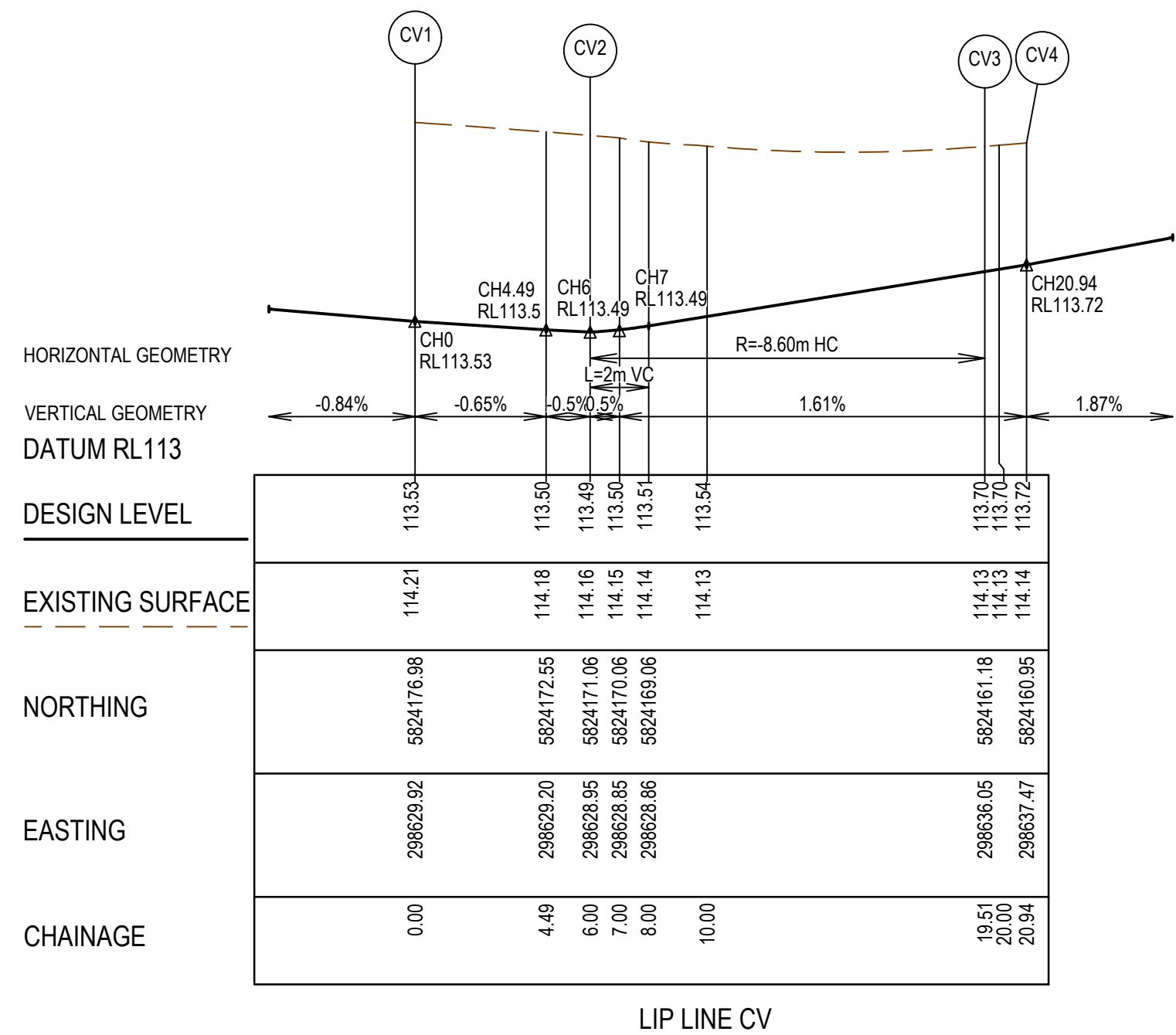
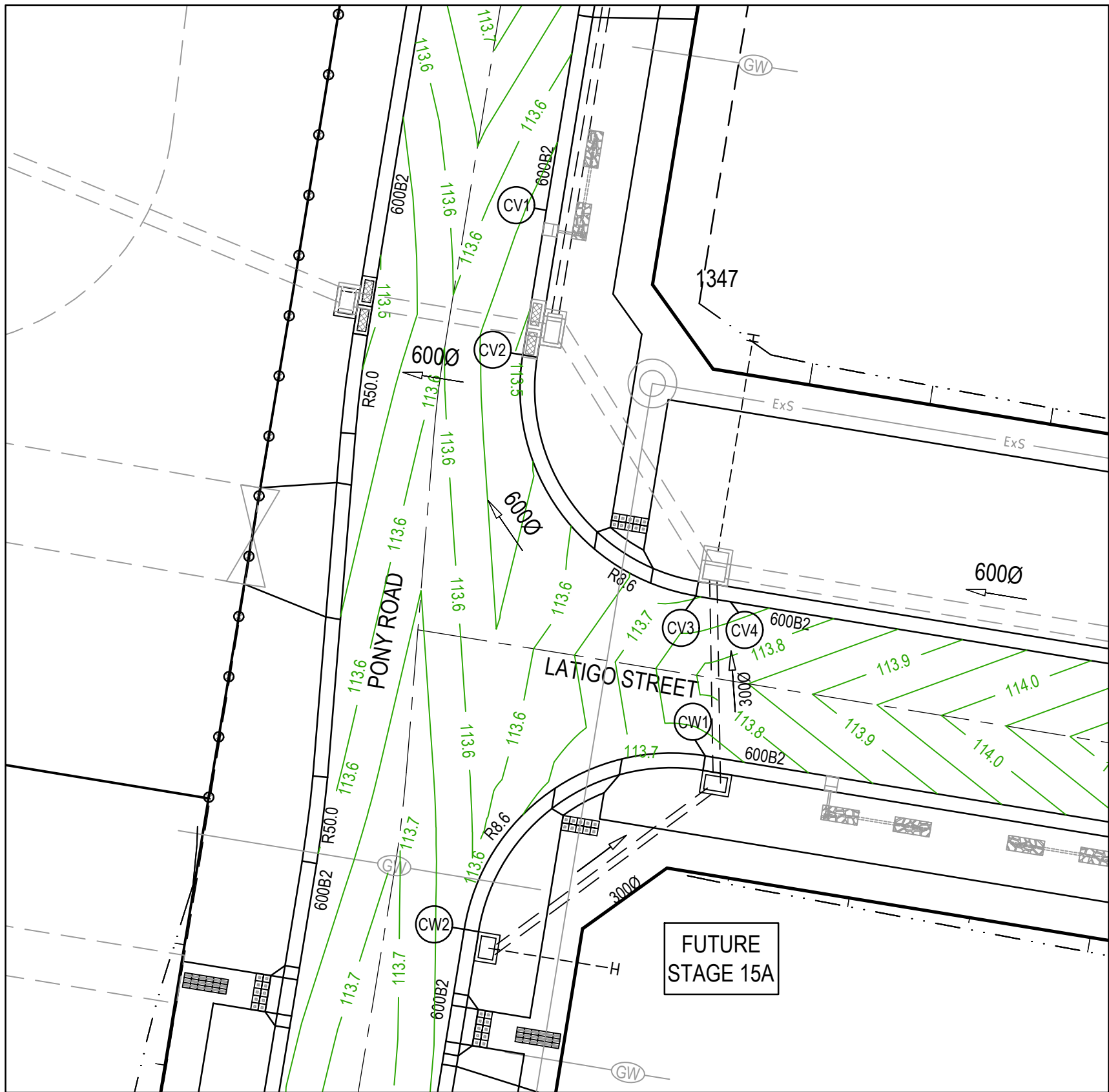
- NOTES
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
 - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
 - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE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



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



- NOTES
1. ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
 2. ALL PRAM CROSSINGS TO BE MINIMUM OF 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.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON

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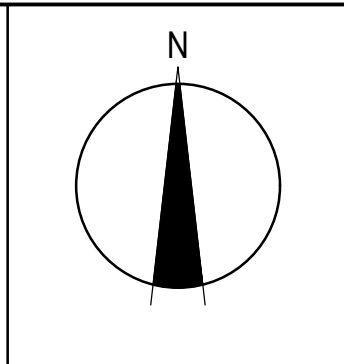
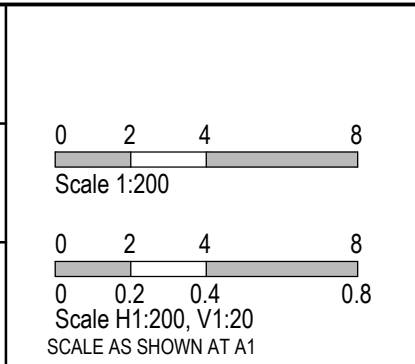
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PLAN OF SUB. NO. PS905211S

PERMIT REF. NO. PA2017/5710

SUBJECT TO APPROVAL



SMEC

Member of the Surlana Jurong Group

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Melbourne, VIC 3008
Ph 03 9514 1500



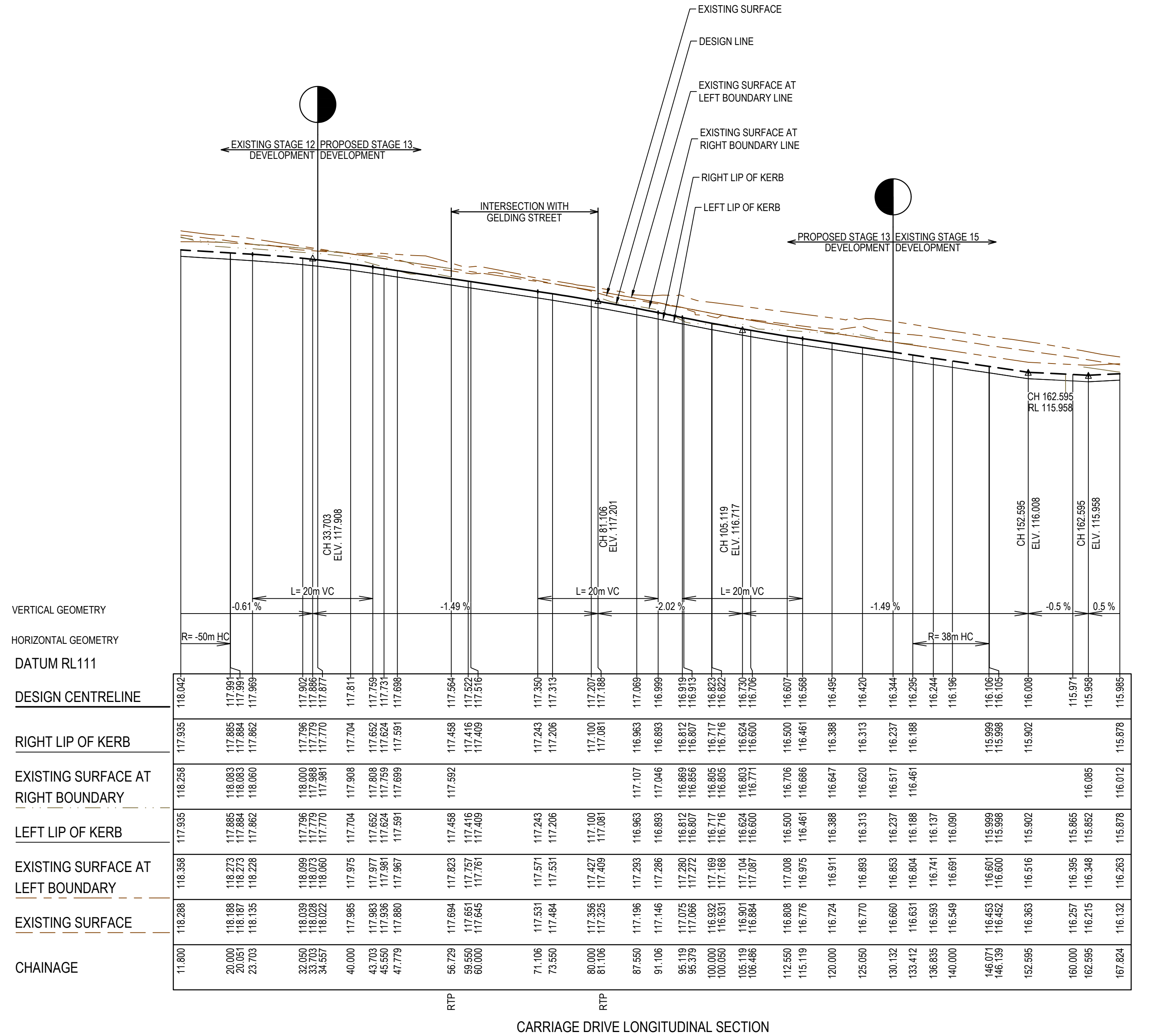
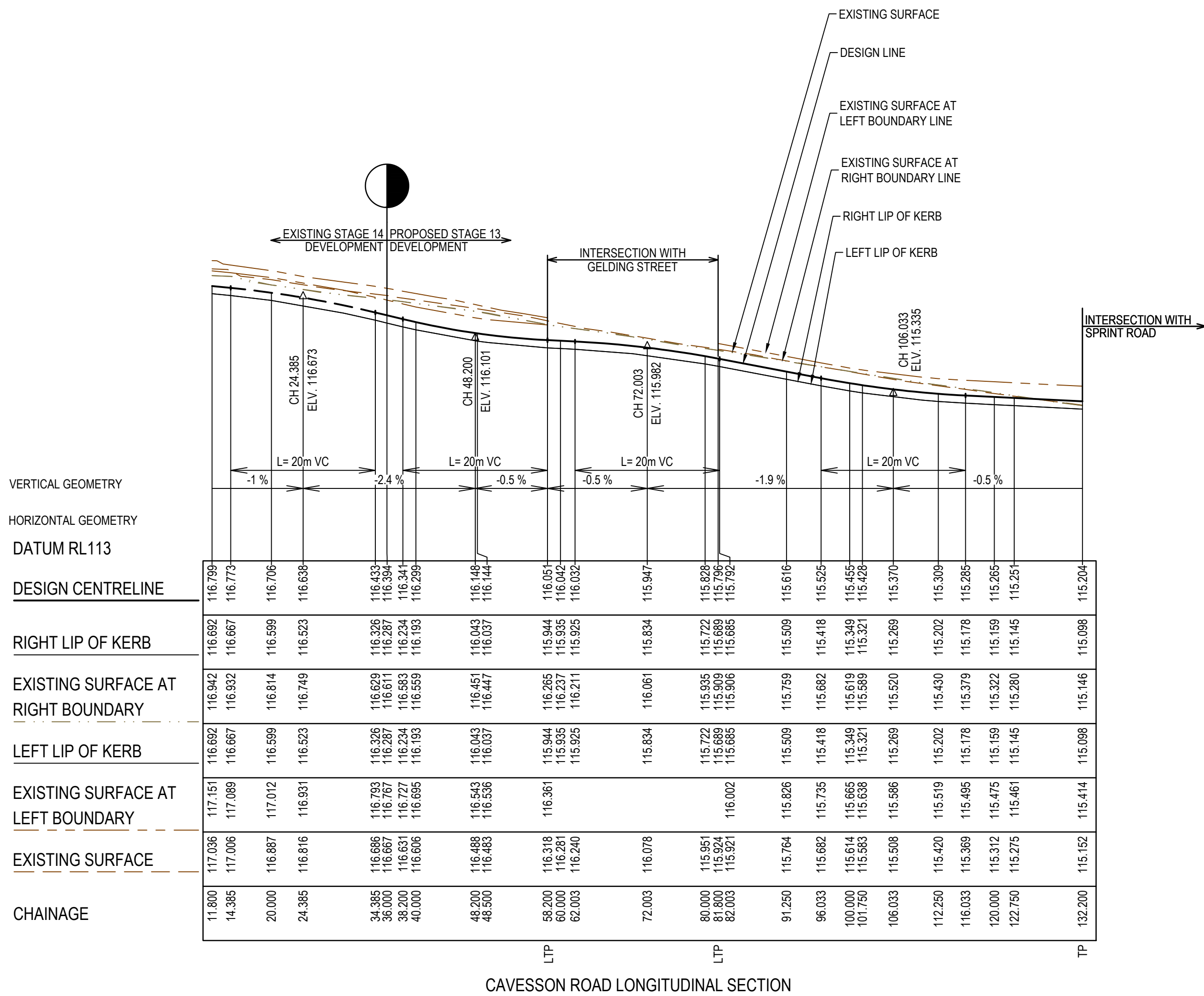
Westwood - Stage 13
Melton City Council
Road and Drainage
Intersection Detail Plan - 3

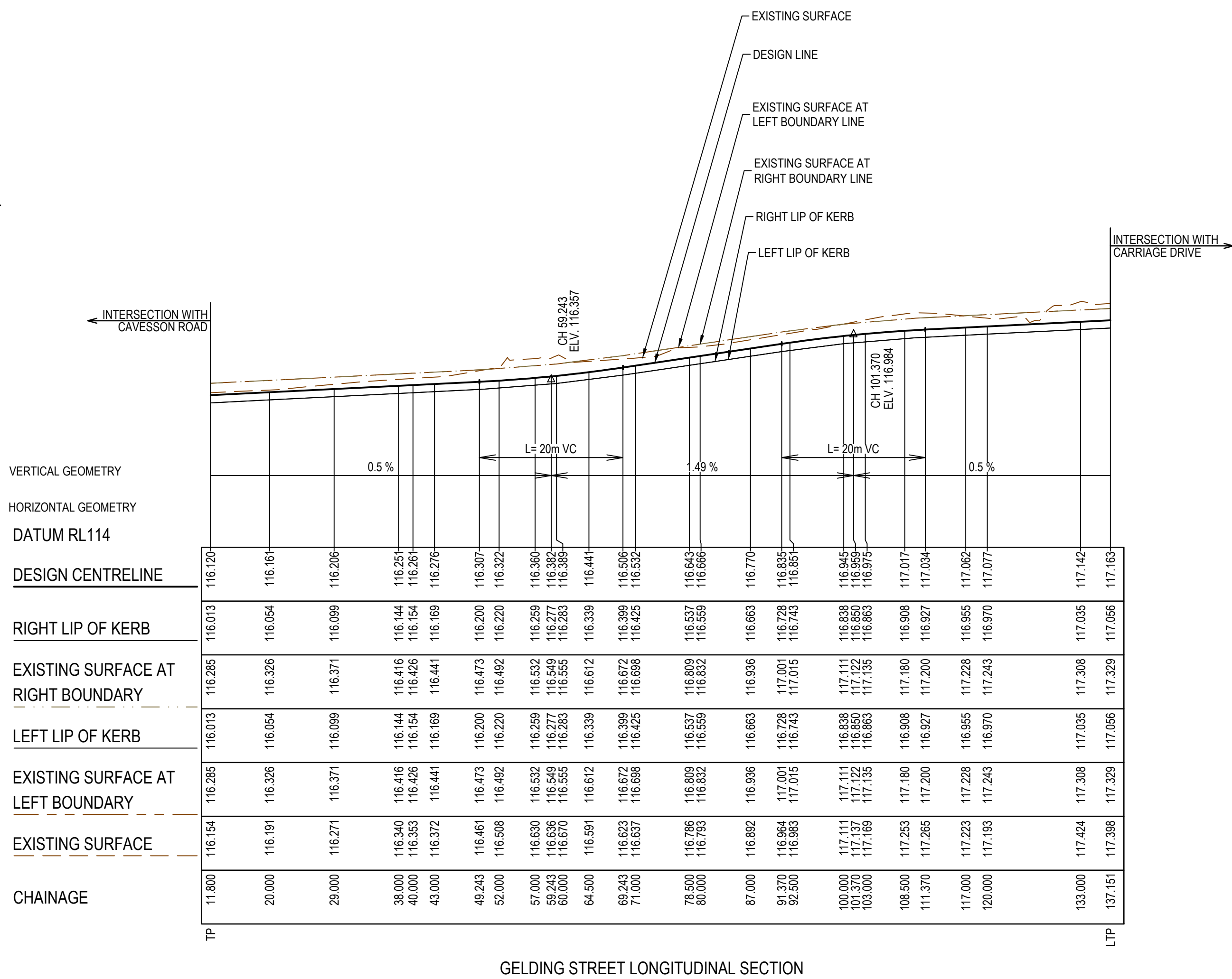
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PROJECT / DRAWING No. 2152E-013-183

SHEET No. 08 of 27

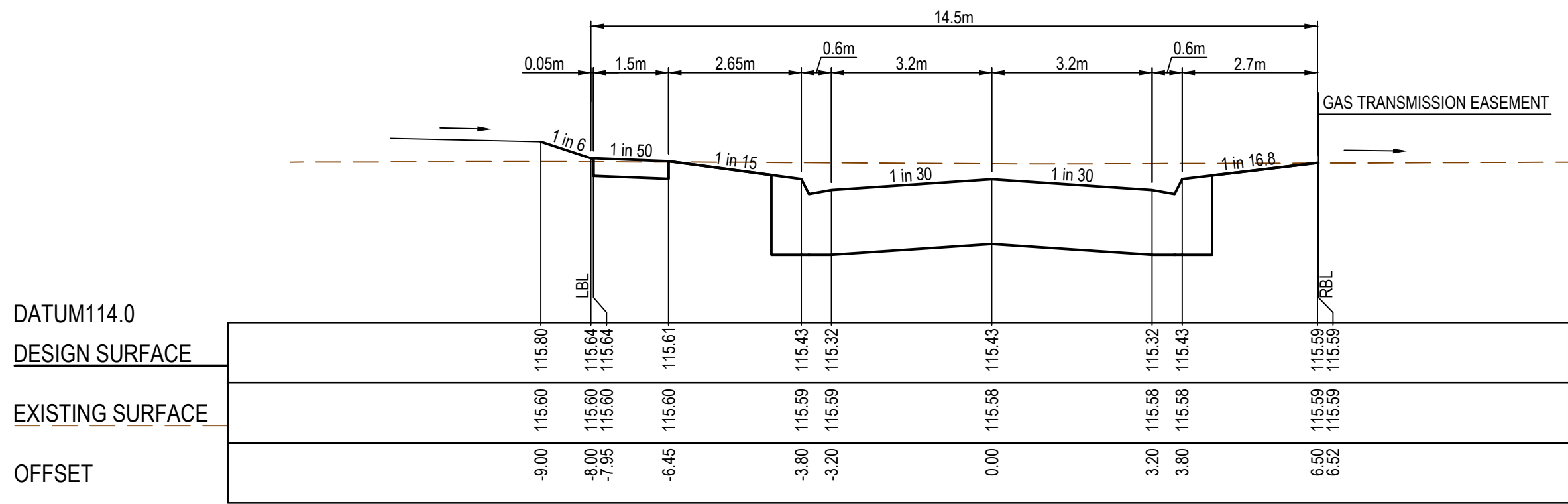
REVISION A



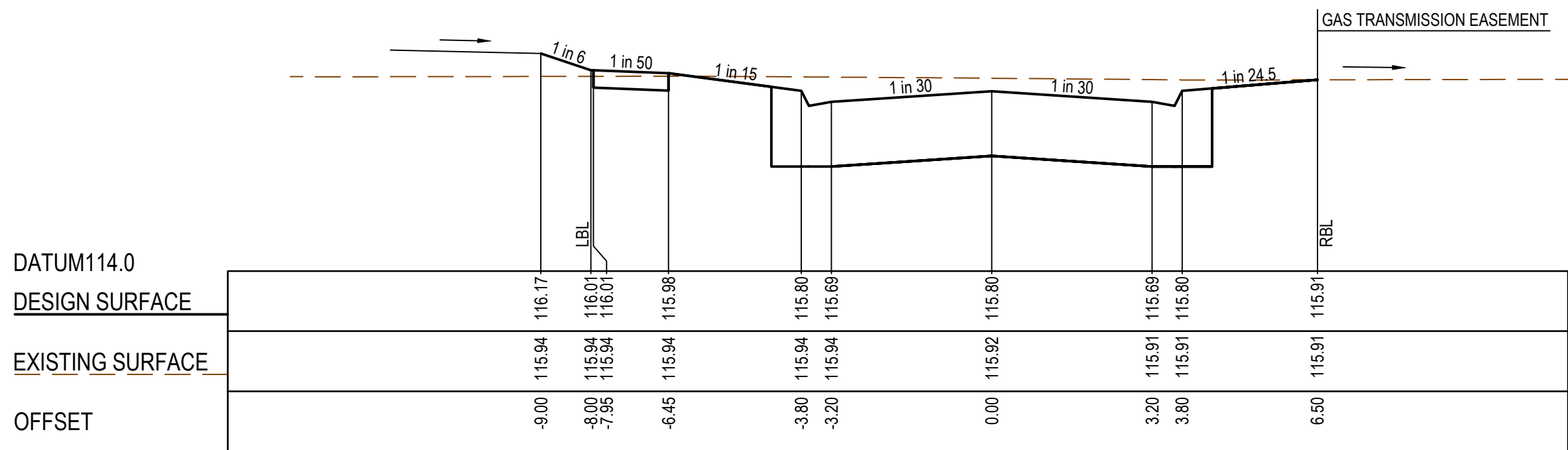


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	  		PLAN OF SUB. NO. PS905211S	 <p>Member of the Surlana Juring Group © AS/NZS 47 065 475 149</p> <p>Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</p>	 <p>WESTWOOD</p>	Westwood - Stage 13 Melton City Council Road and Drainage Longitudinal Sections - 2			
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON	  	PERMIT REF. NO. PA2017/5710	 <p>0 5 10 20 0 0.5 1 Scale H1:500, V1:50 SCALE AS SHOWN AT A1</p>			MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-202	SHEET No. 10 of 27	REVISION A

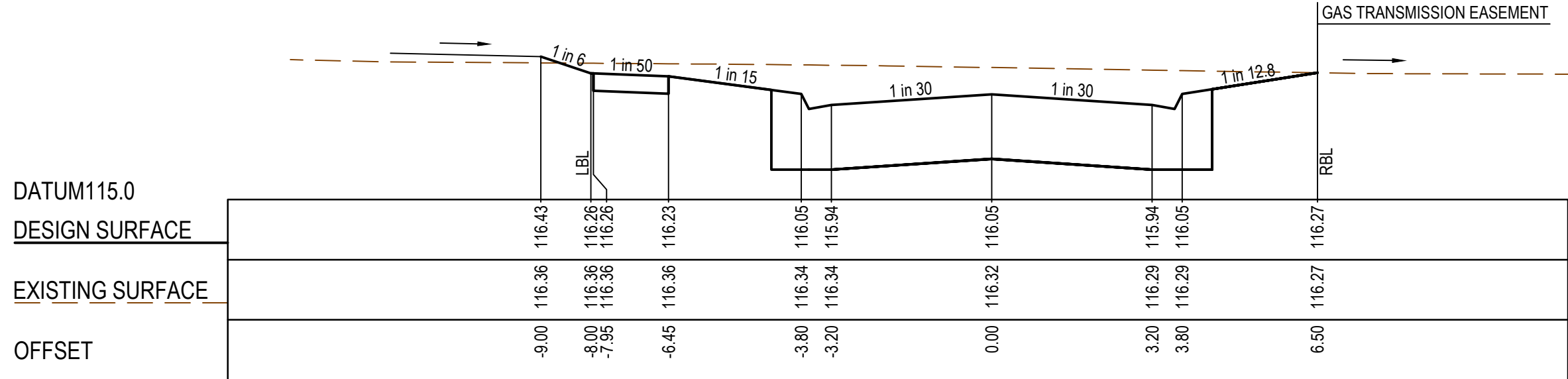
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



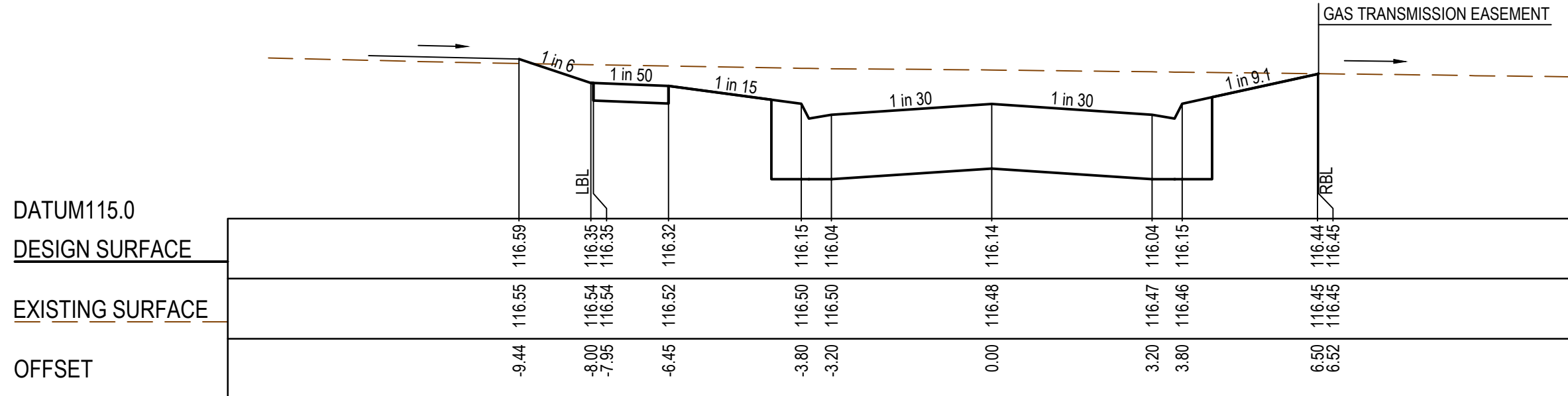
CH 101.75



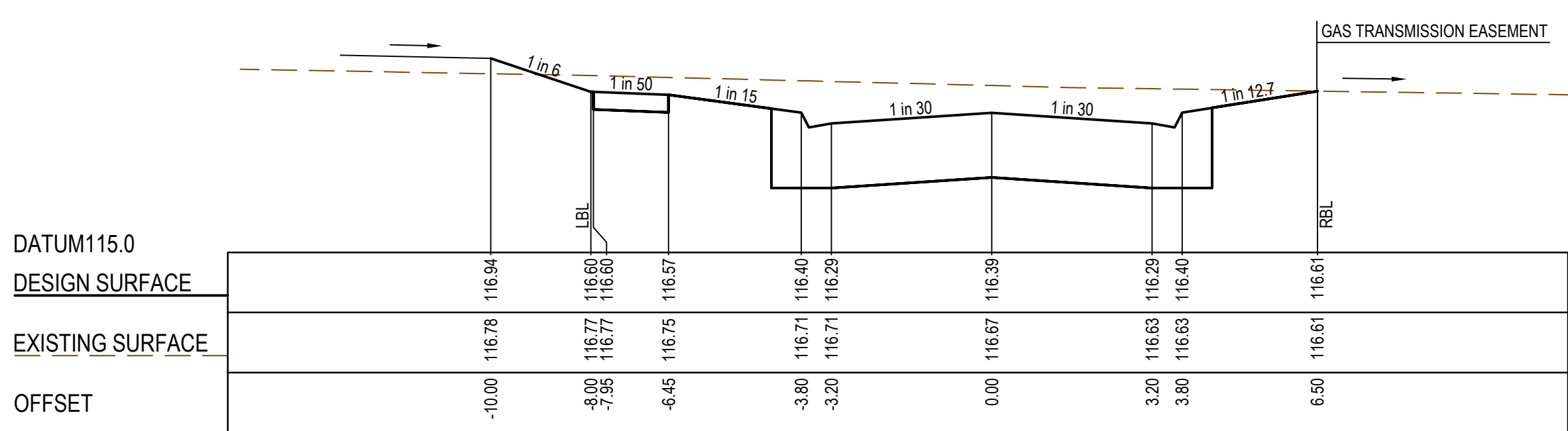
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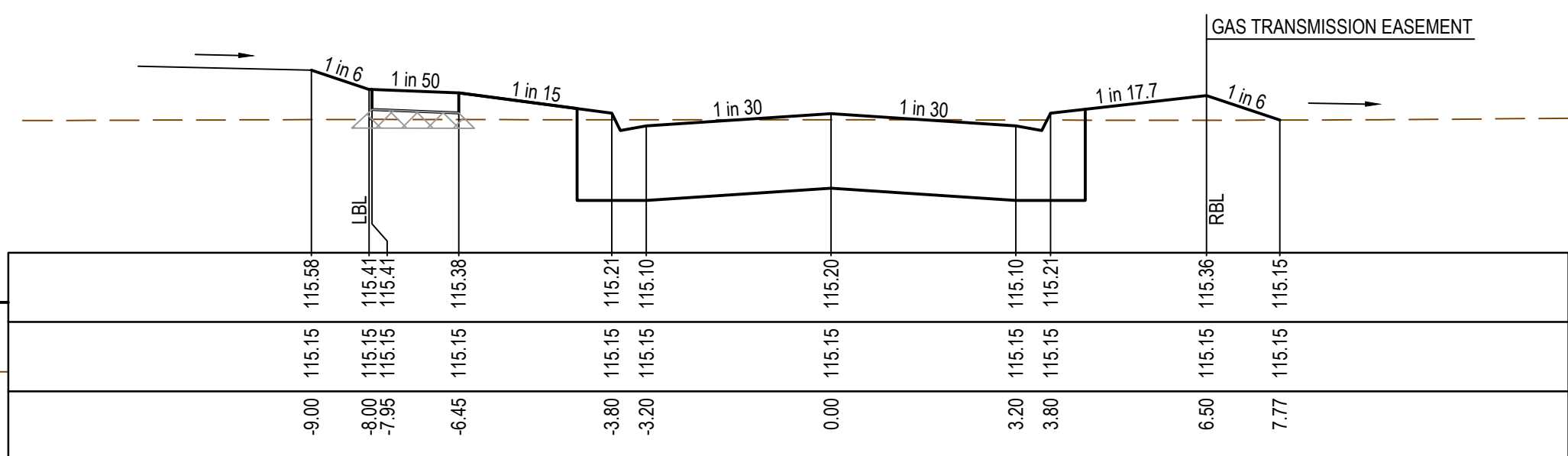
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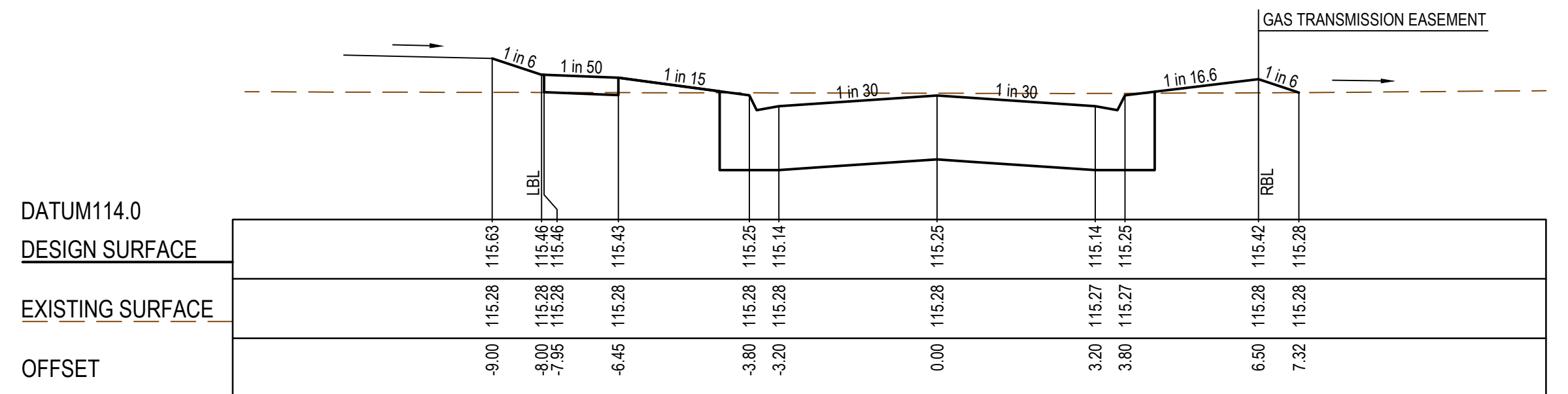
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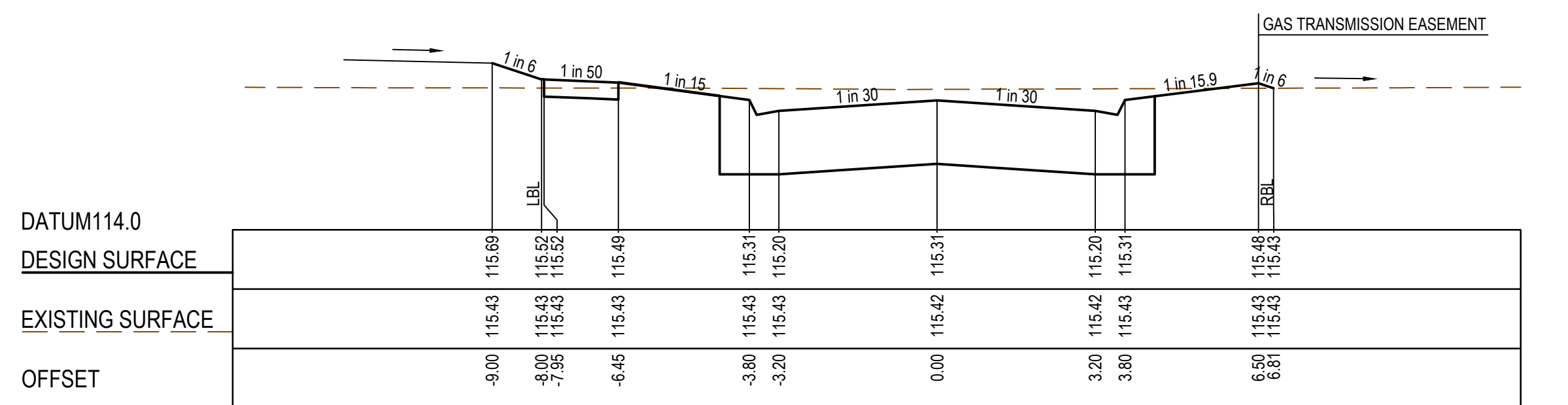
CH 36.00



TPCH 132.20



CH 122.75



CH 112.25

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON



Quality Management ISO 9001:2015



OHS Management AS/NZS 4801:2001

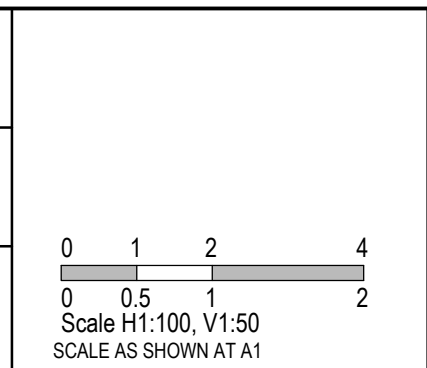



Environmental Management ISO 14001:2015

PLAN OF SUB. NO.
PS905211S

PERMIT REF. NO.
PA2017/5710

SUBJECT TO APPROVAL





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Member of the Surbana Jurong Group

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Melbourne, VIC 3008
Ph 03 9514 1500



WESTWOOD

Westwood - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Cavesson Road

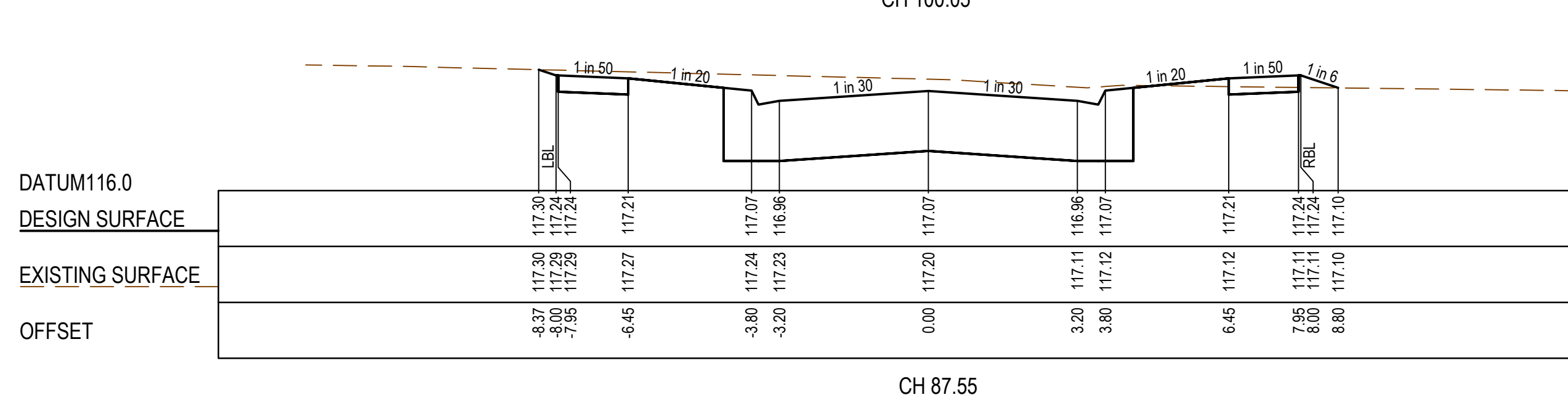
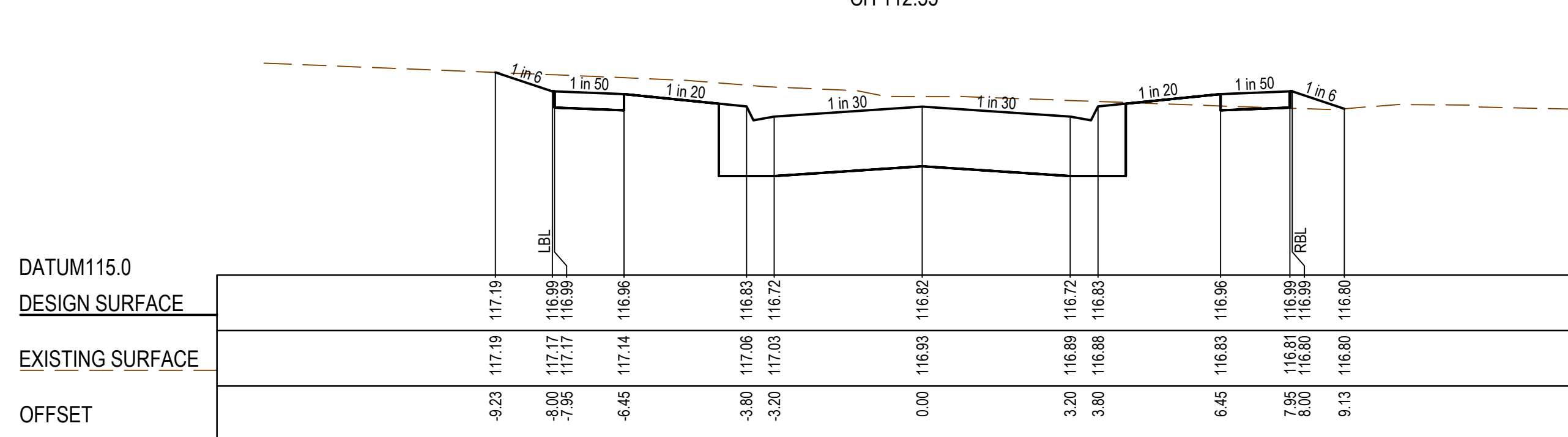
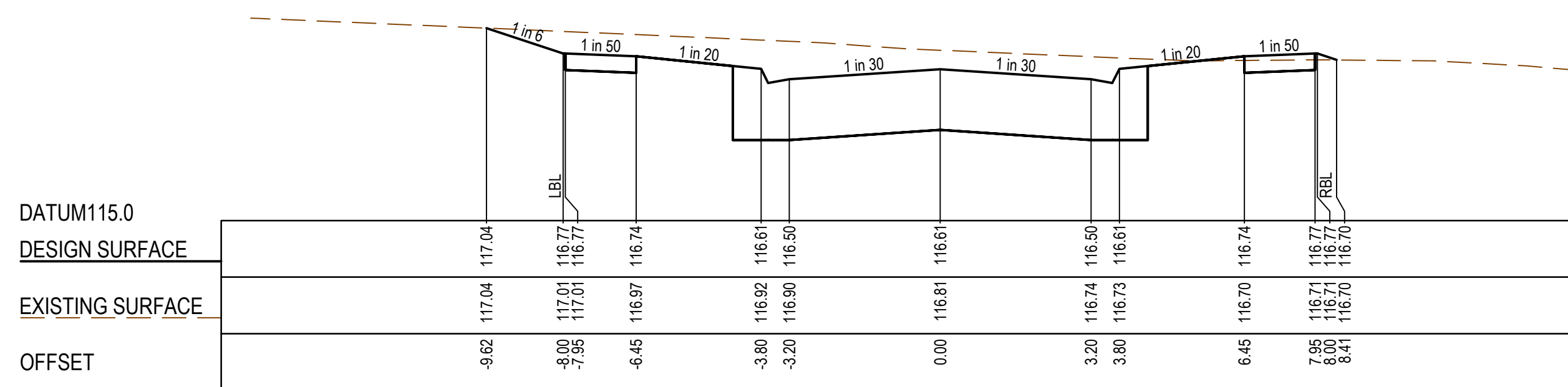
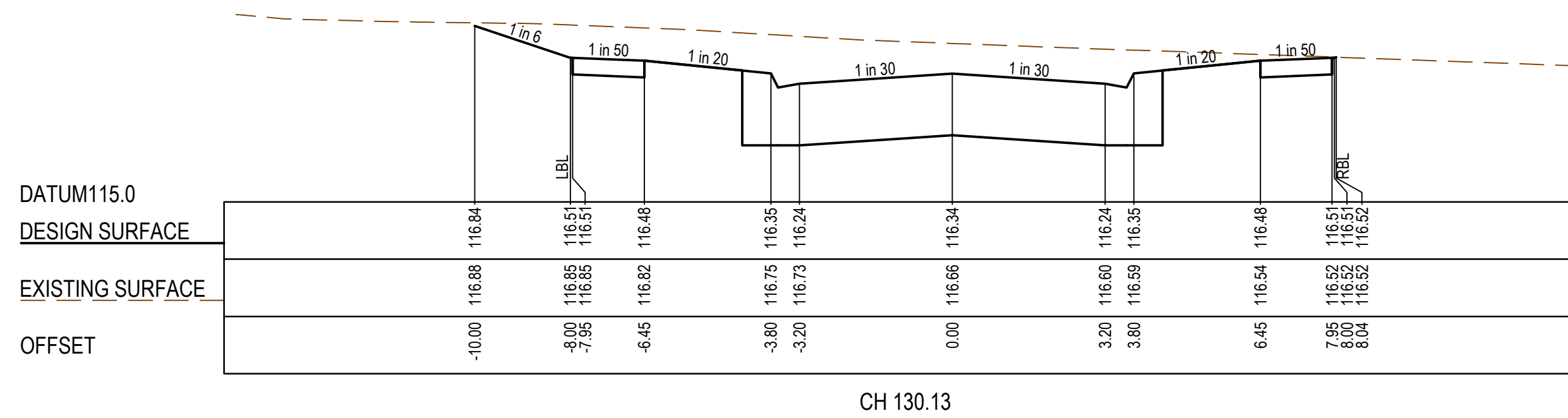
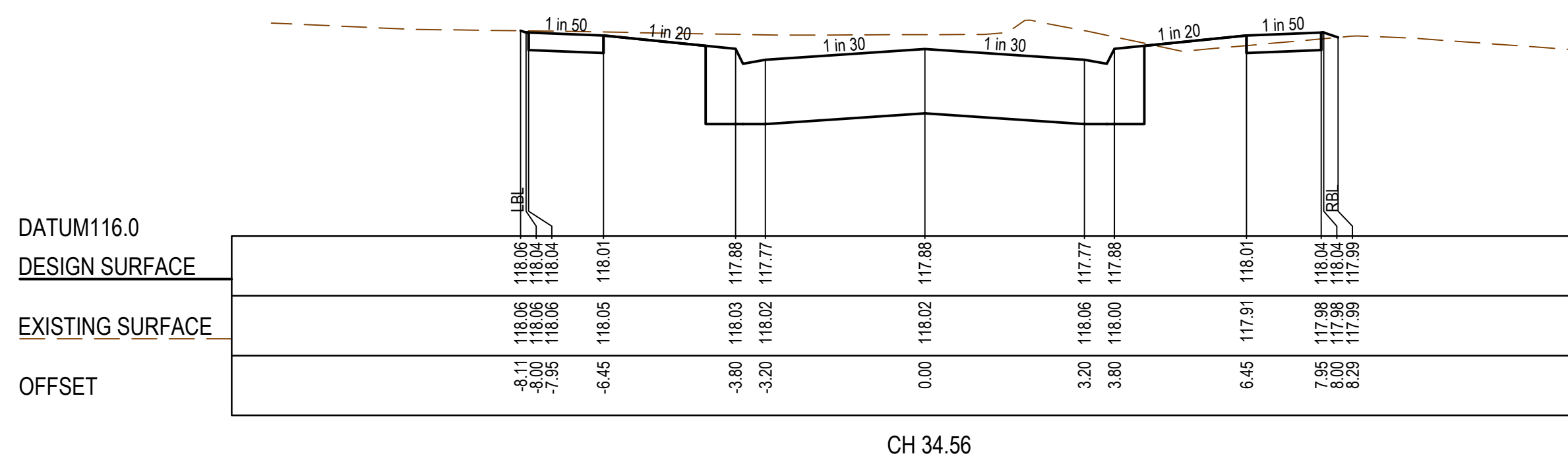
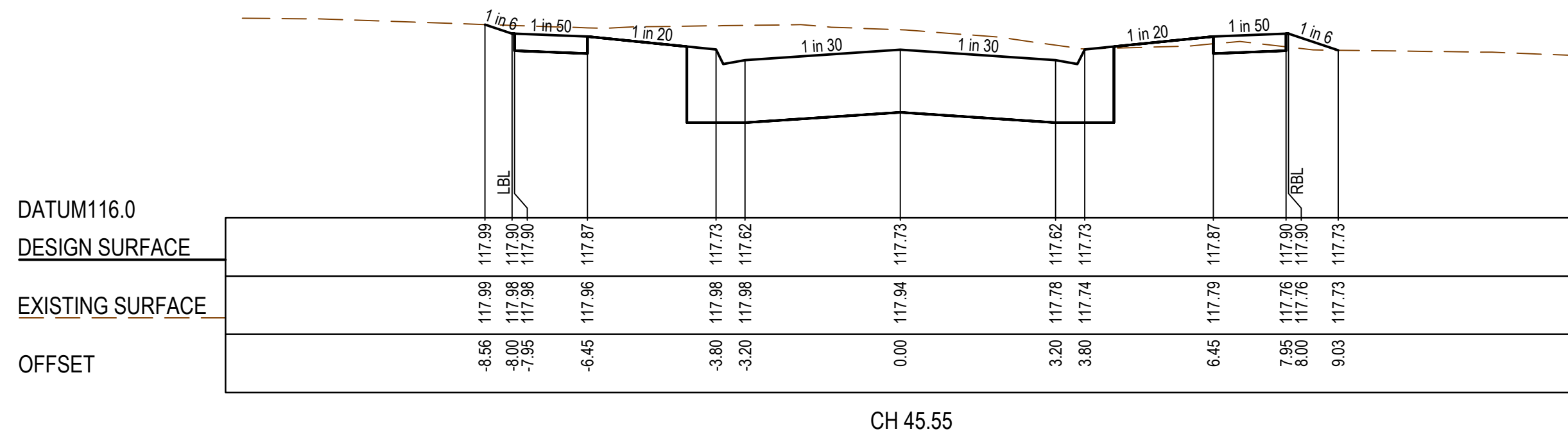
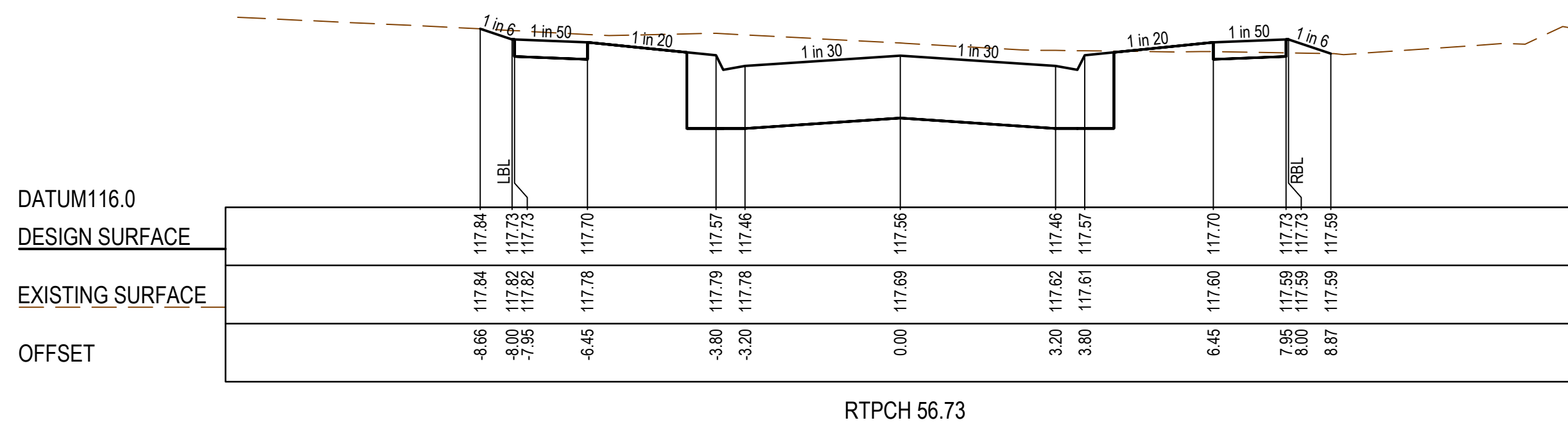
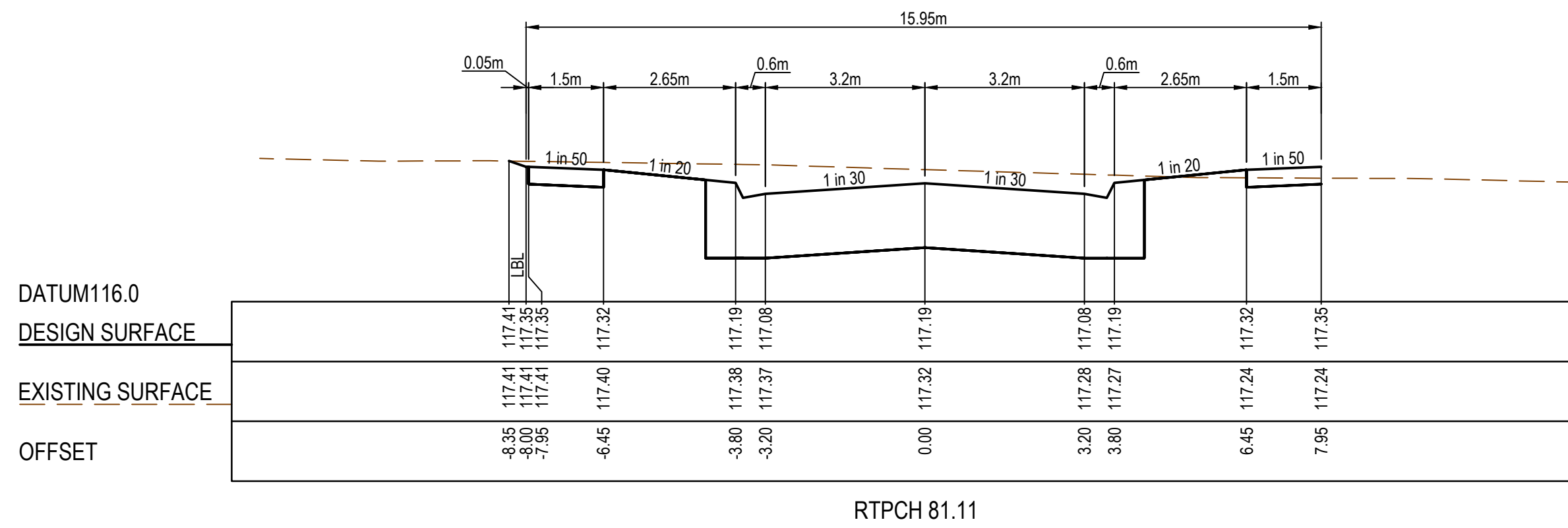
MELWAYS REF
356 B1

PROJECT / DRAWING No.
2152E-013-251

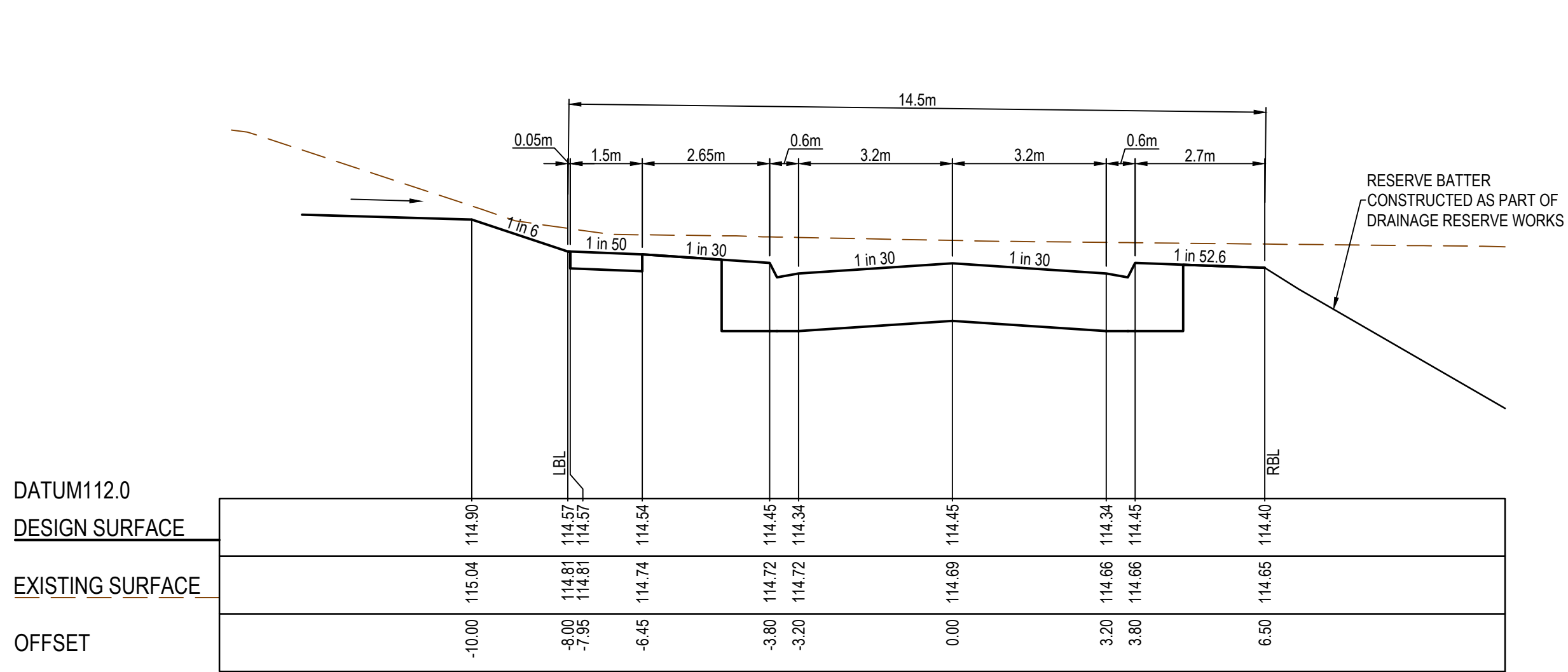
SHEET No.
12 of 27

REVISION
A

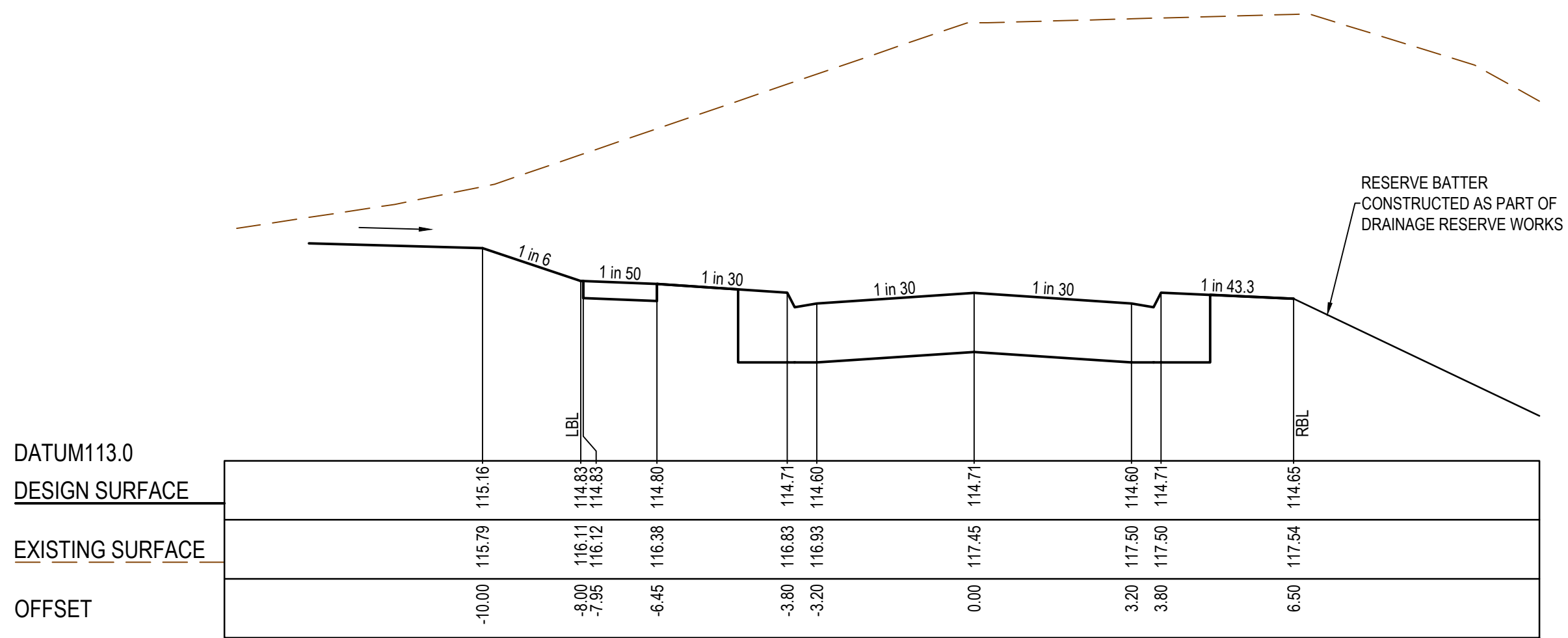
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



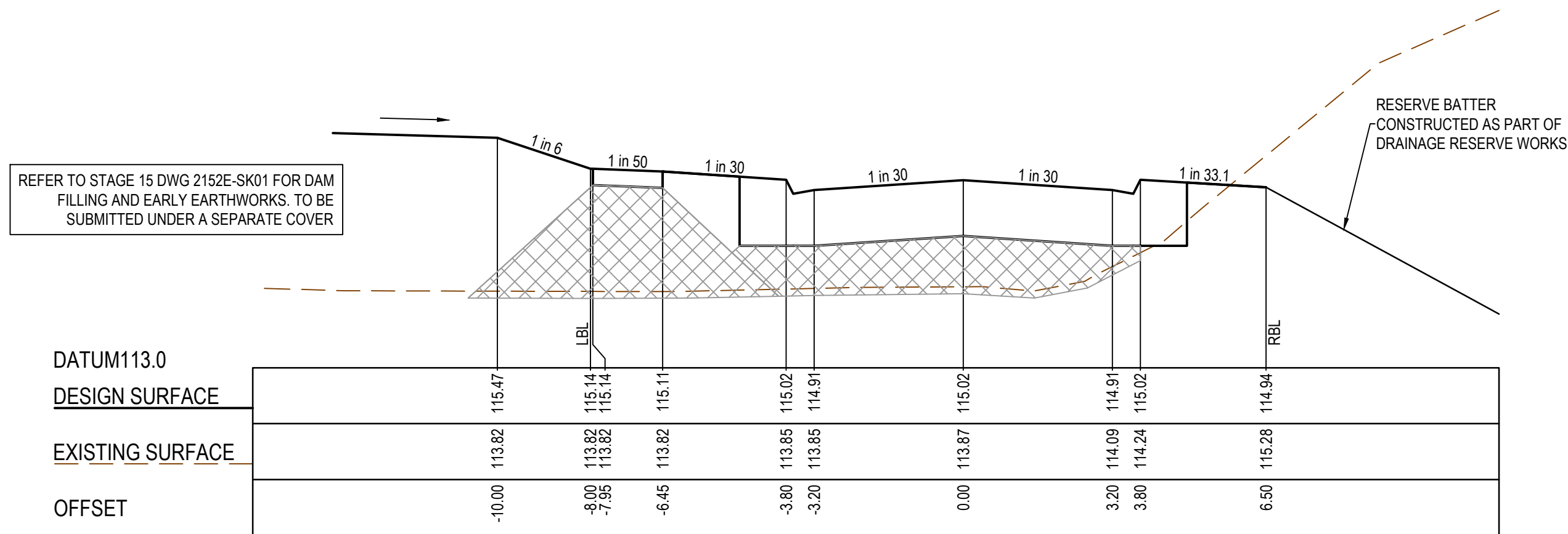
STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



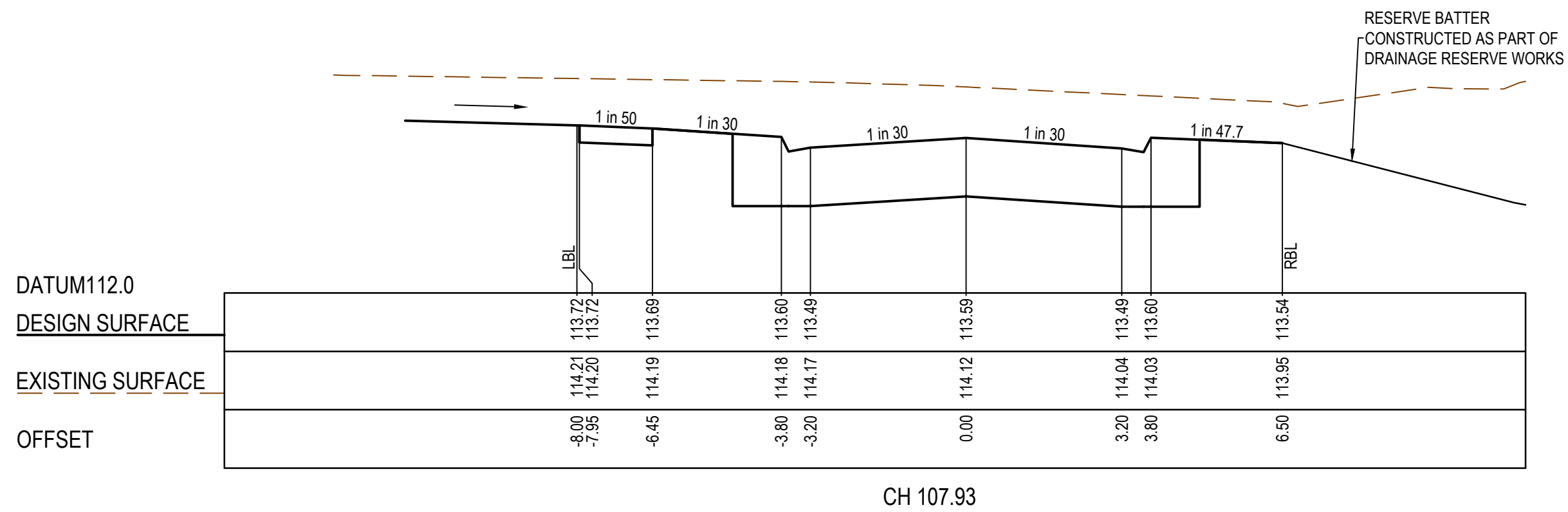
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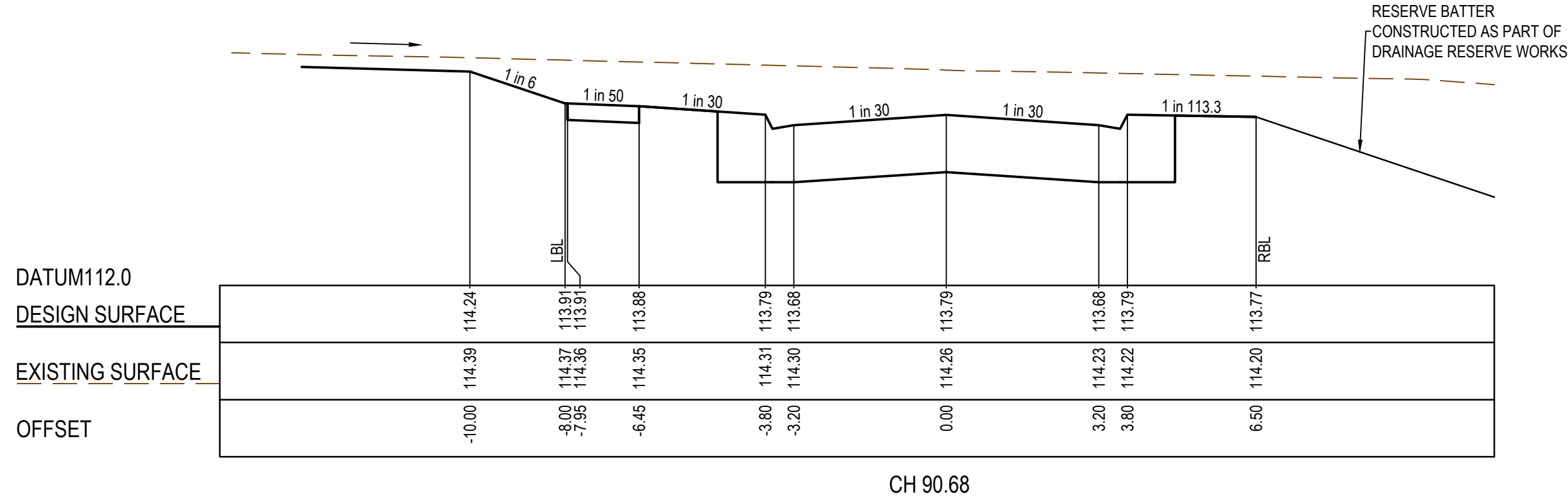
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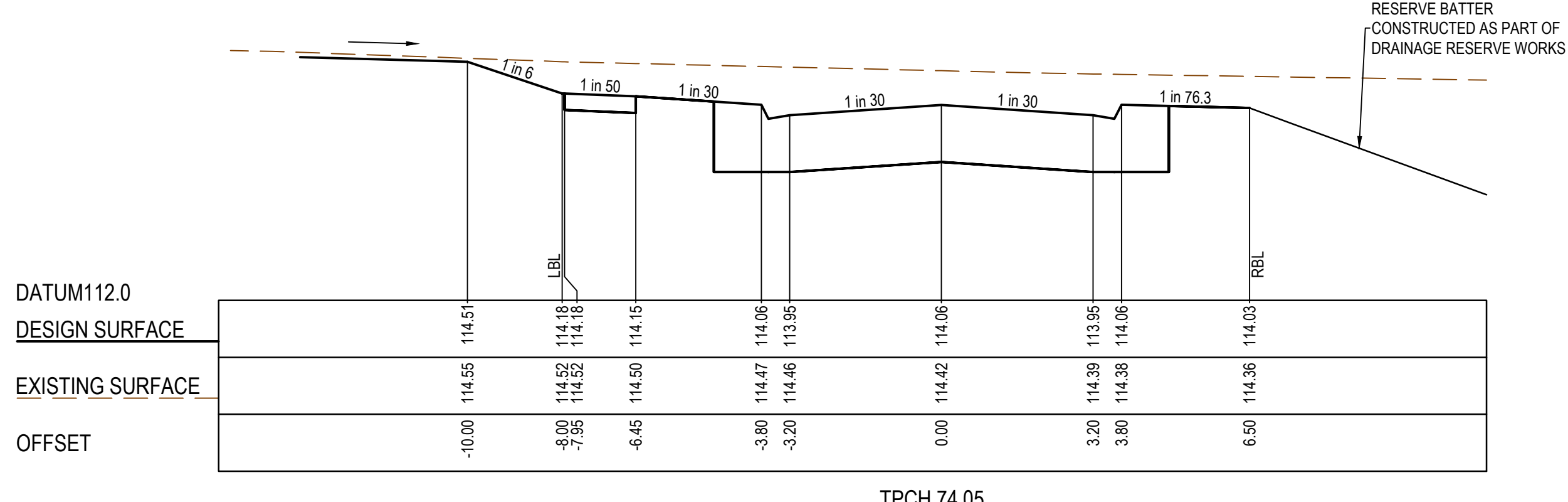
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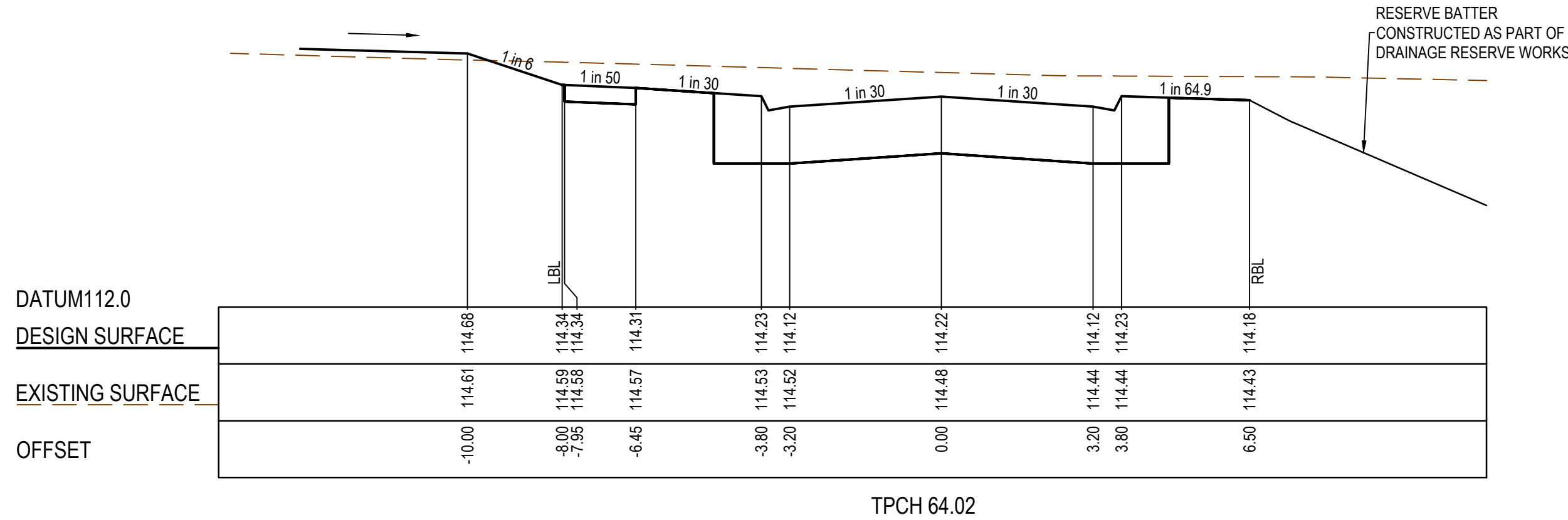
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CH 90.68



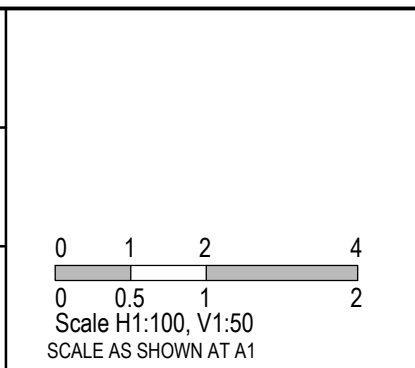
TPCH 74.05



TPCH 64.02

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
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SUBJECT TO APPROVAL			

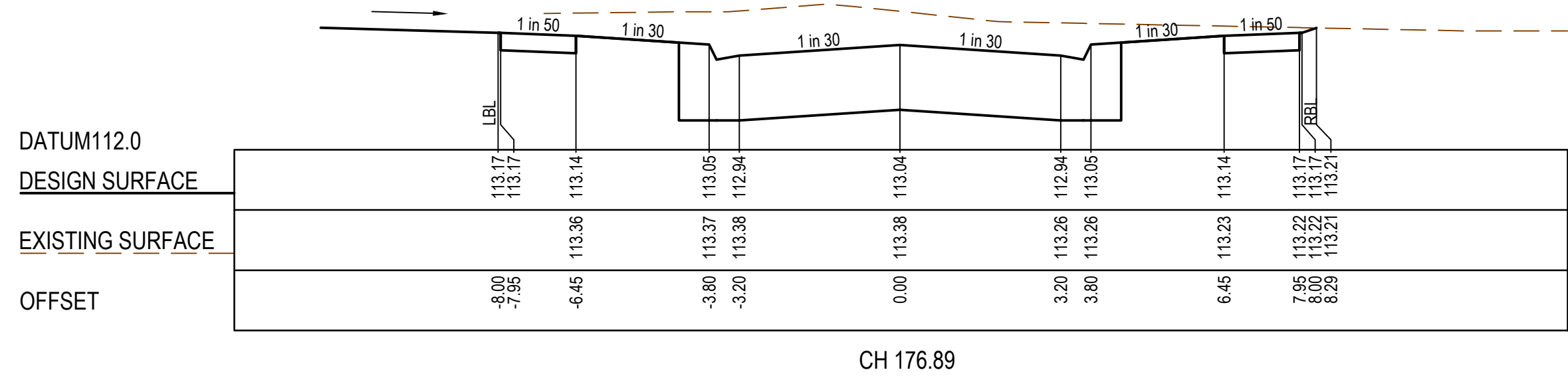
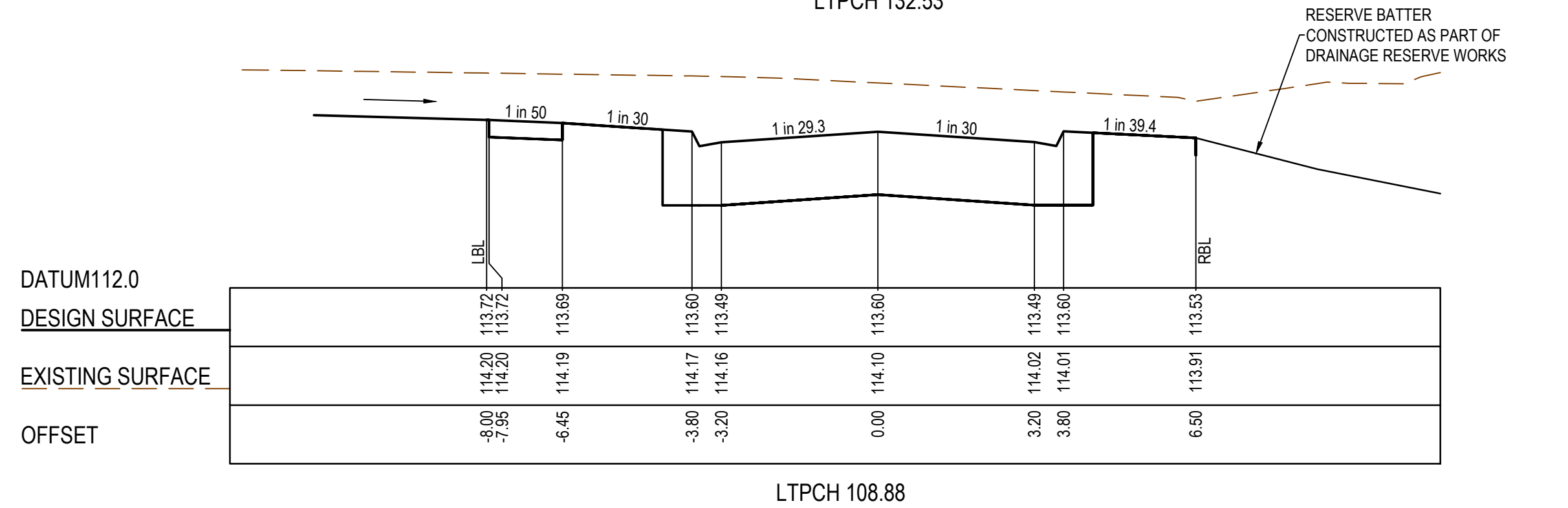
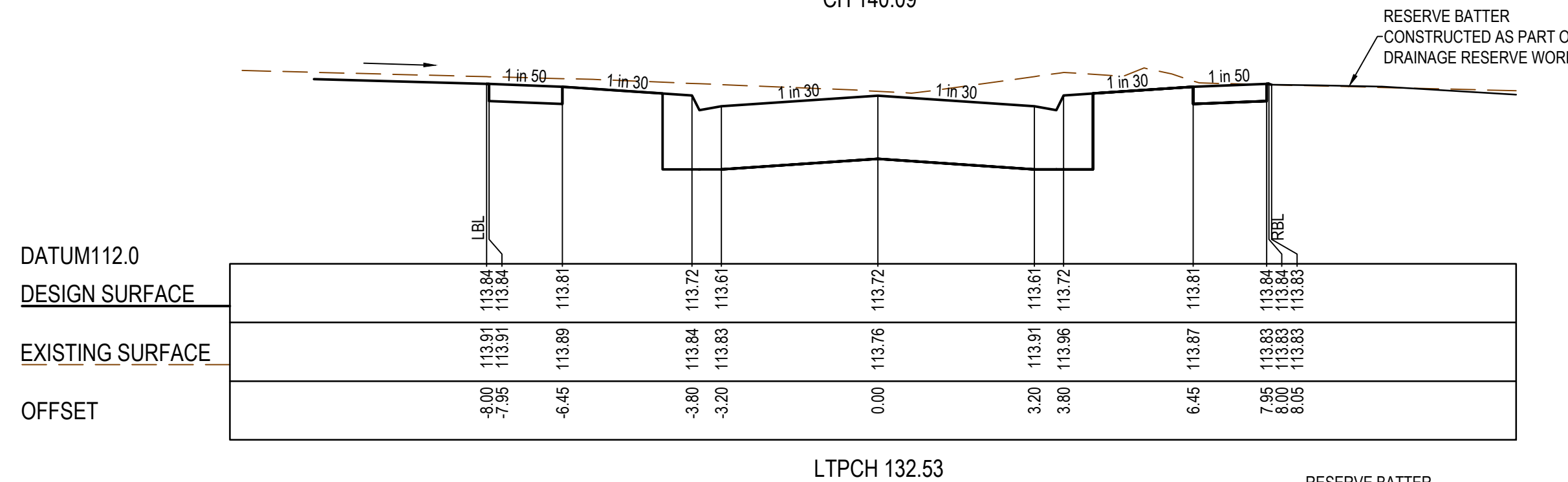
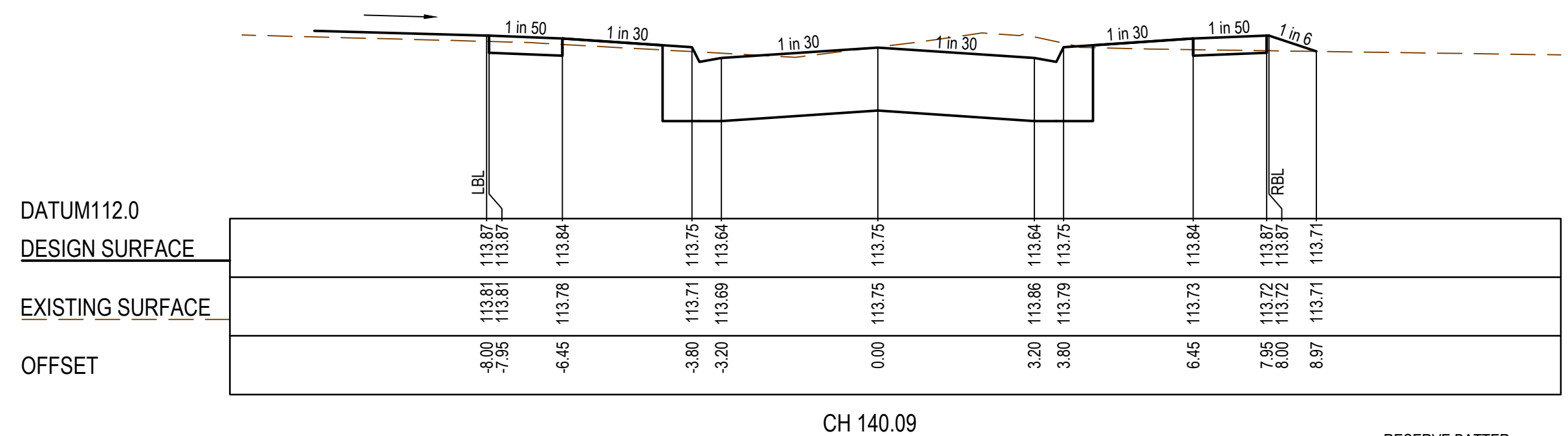
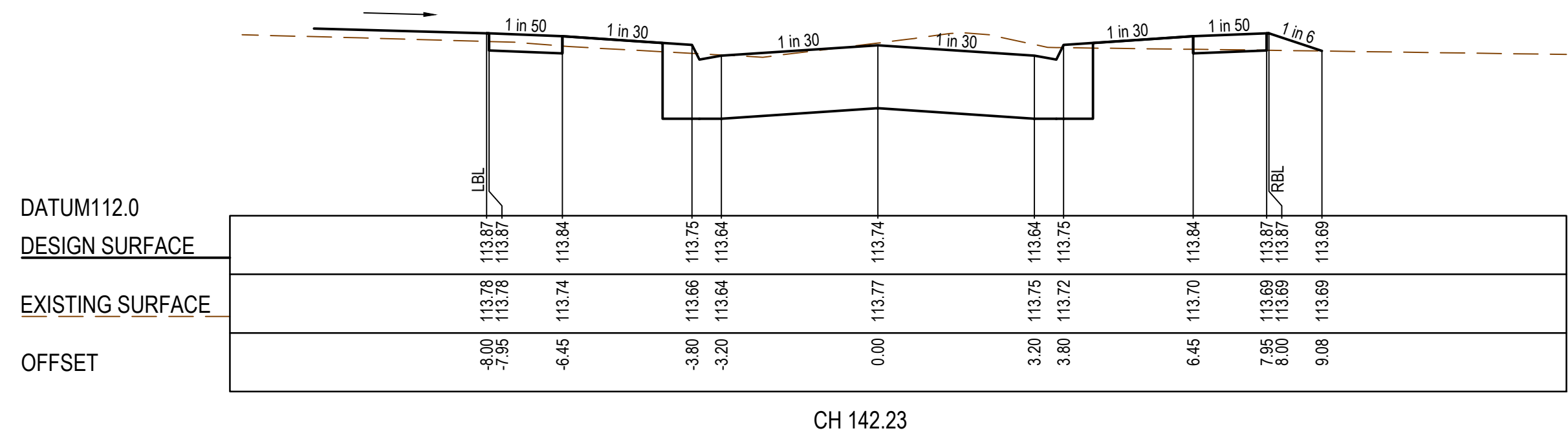
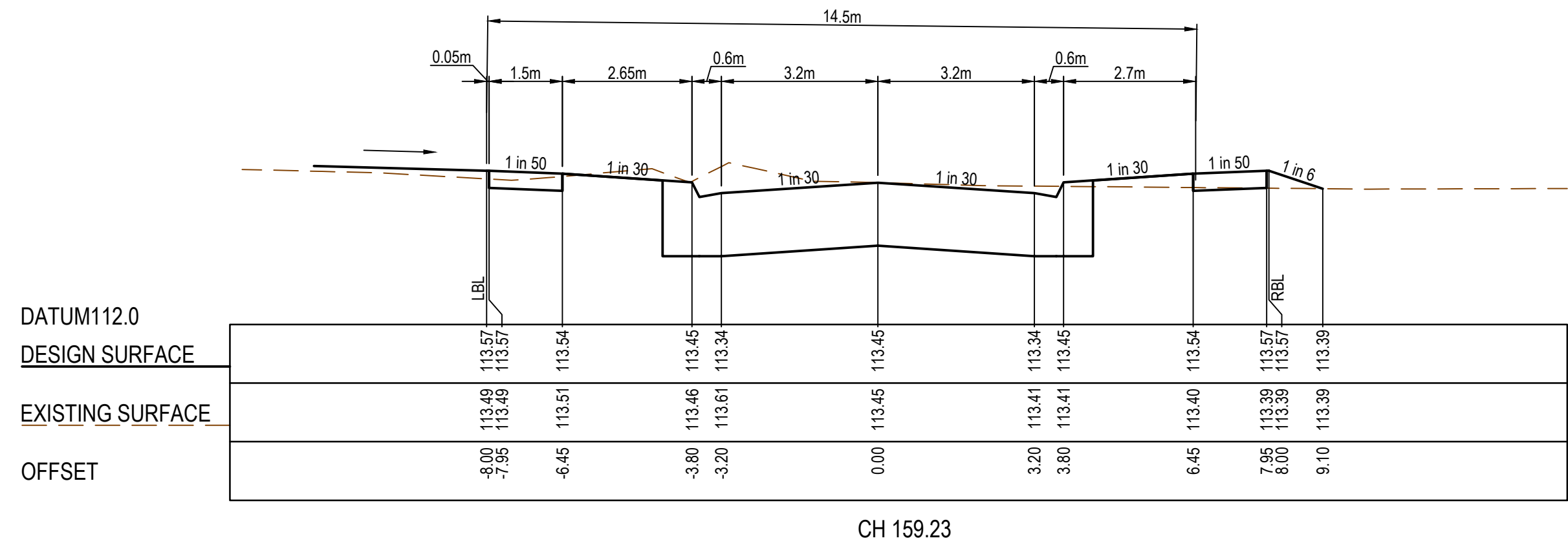


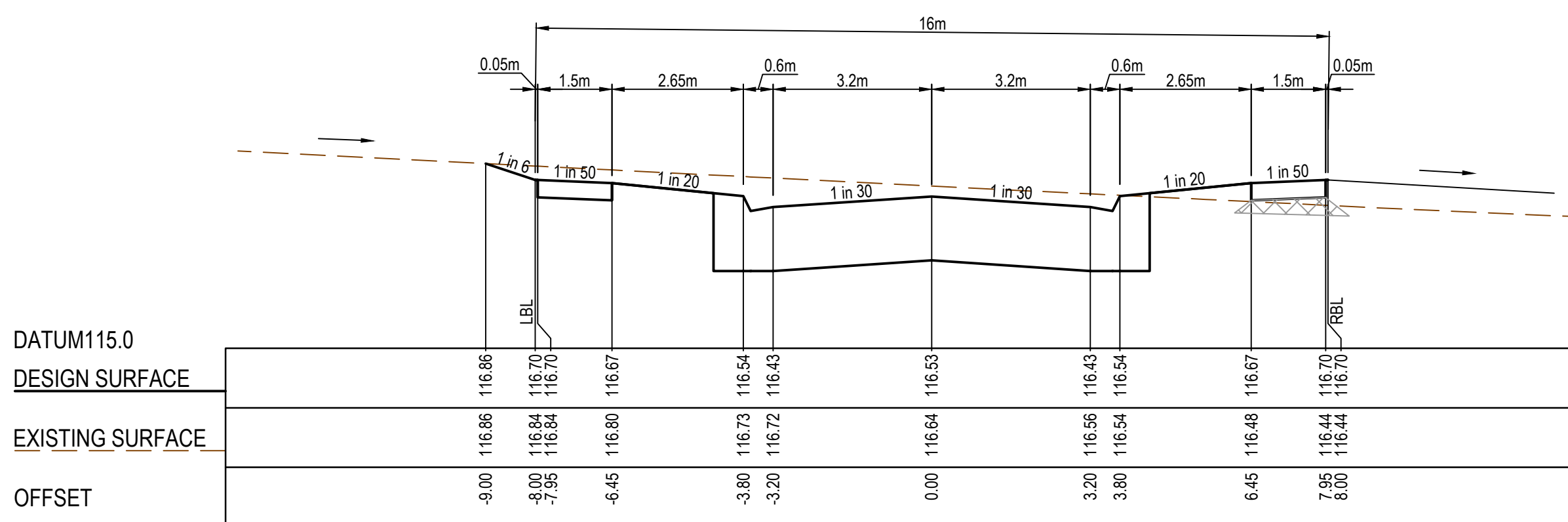
SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500



Westwood - Stage 13 Melton City Council Road and Drainage Cross Sections: Pony Road Ch 15.13 - Ch 107.93	
MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-253
SHEET No. 14 of 27	REVISION A

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





	Station 1+00	Station 1+10	Station 1+20	Station 1+30	Station 1+40	Station 1+50	Station 1+60	Station 1+70
DATUM	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
DESIGN SURFACE	116.69	116.53	116.50	116.36	116.25	116.36	116.25	116.50
EXISTING SURFACE	116.82	116.80	116.77	116.71	116.70	116.63	116.56	116.47
OFFSET	-9.00	-8.00	-6.45	-3.80	-3.20	0.00	3.20	6.45

	Station 1+00	Station 1+10	Station 1+20	Station 1+30	Station 1+40	Station 1+50	Station 1+60	Station 1+70	Station 1+80	Station 1+90	Station 2+00
DATUM 115.0											
DESIGN SURFACE	116.61	116.44	116.44	116.41	116.28	116.17	116.28	116.17	116.28	116.41	116.44
EXISTING SURFACE	116.60	116.58	116.57	116.45	116.37	116.29	116.27	116.29	116.20	116.17	116.17
OFFSET	-9.00	-9.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95

OFFSET	1	2	3	4	5	6	7	8	9	10	11
DATUM 115.0											
DESIGN SURFACE		116.54	116.37	116.37	116.34	116.21	116.10	116.21	116.10	116.21	116.34
EXISTING SURFACE		116.50	116.48	116.48	116.44	116.38	116.36	116.27	116.19	116.17	116.11
OFFSET	-9.00	-8.00	-7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95

	Station 1+00	Station 1+10	Station 1+20	Station 1+30	Station 1+40	Station 1+50	Station 1+60	Station 1+70	Station 1+80	Station 1+90
DATUM 115.0										
DESIGN SURFACE	116.45	116.29 116.29	116.26	116.12	116.01	116.12	116.01	116.12	116.26	116.29 116.29
EXISTING SURFACE	116.33	116.31 116.31	116.28	116.23	116.01	116.15	116.09	116.08	116.04	116.01 116.01
OFFSET	-9.00	-8.00 -7.95	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.95 6.00

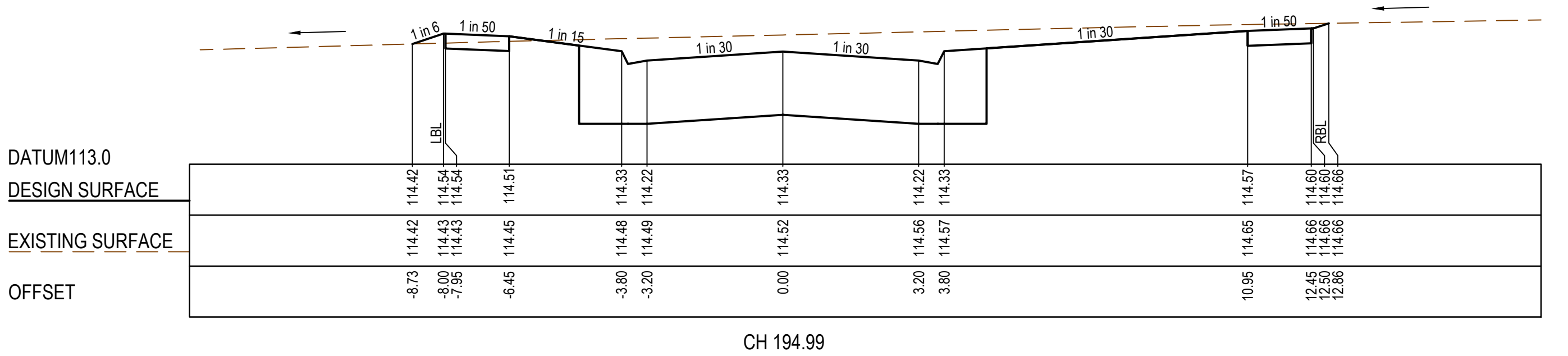
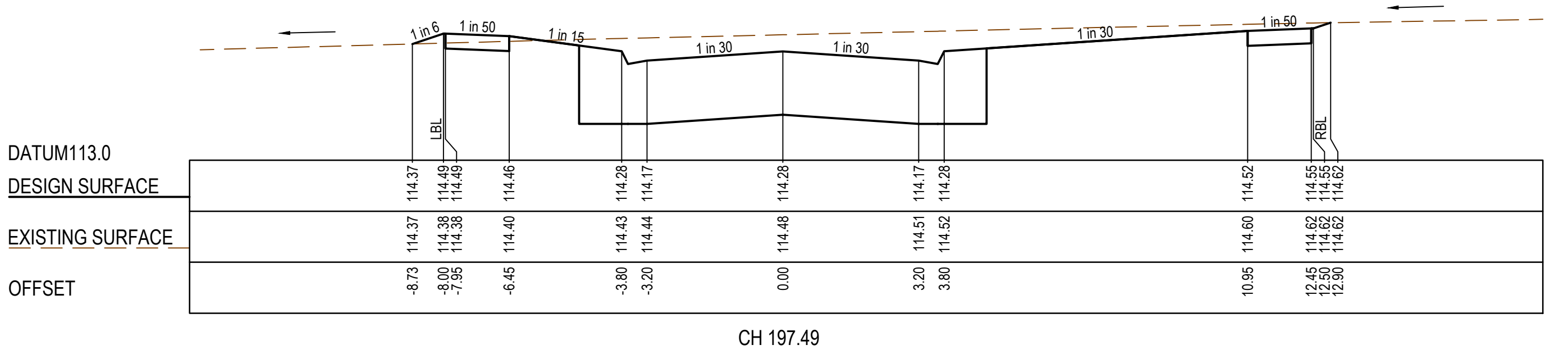
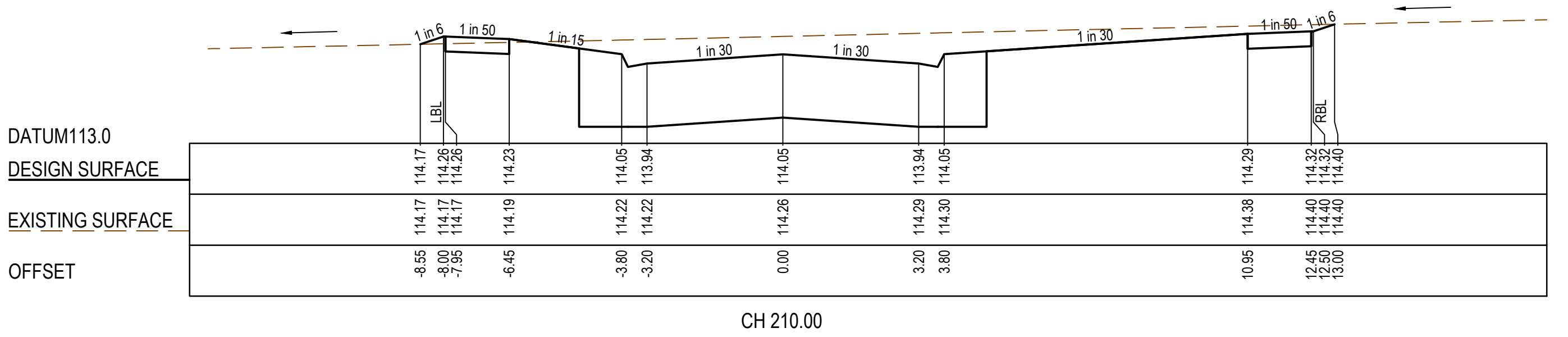
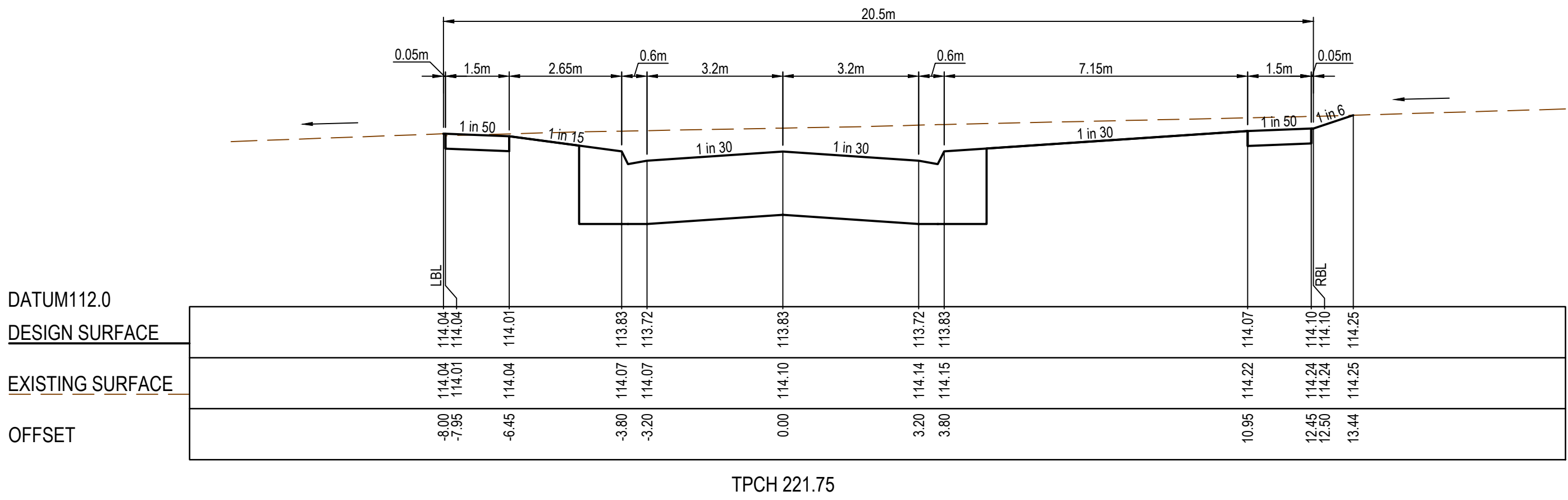
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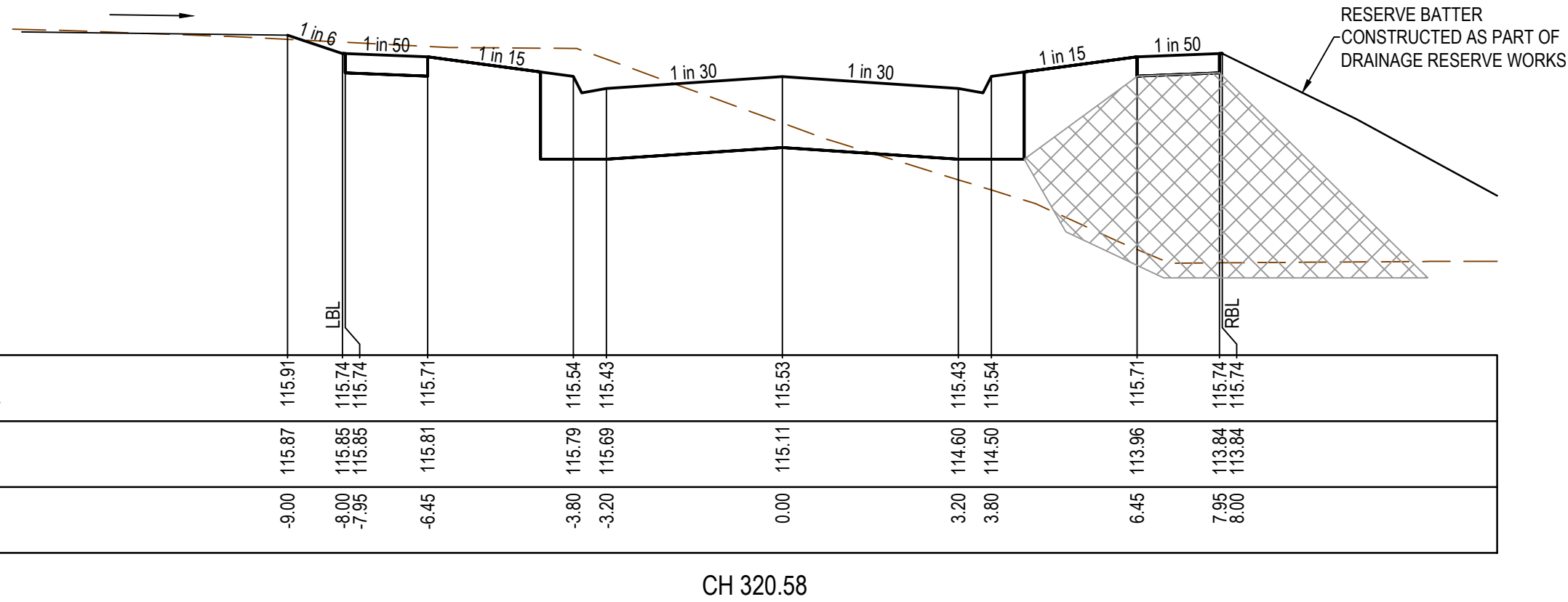
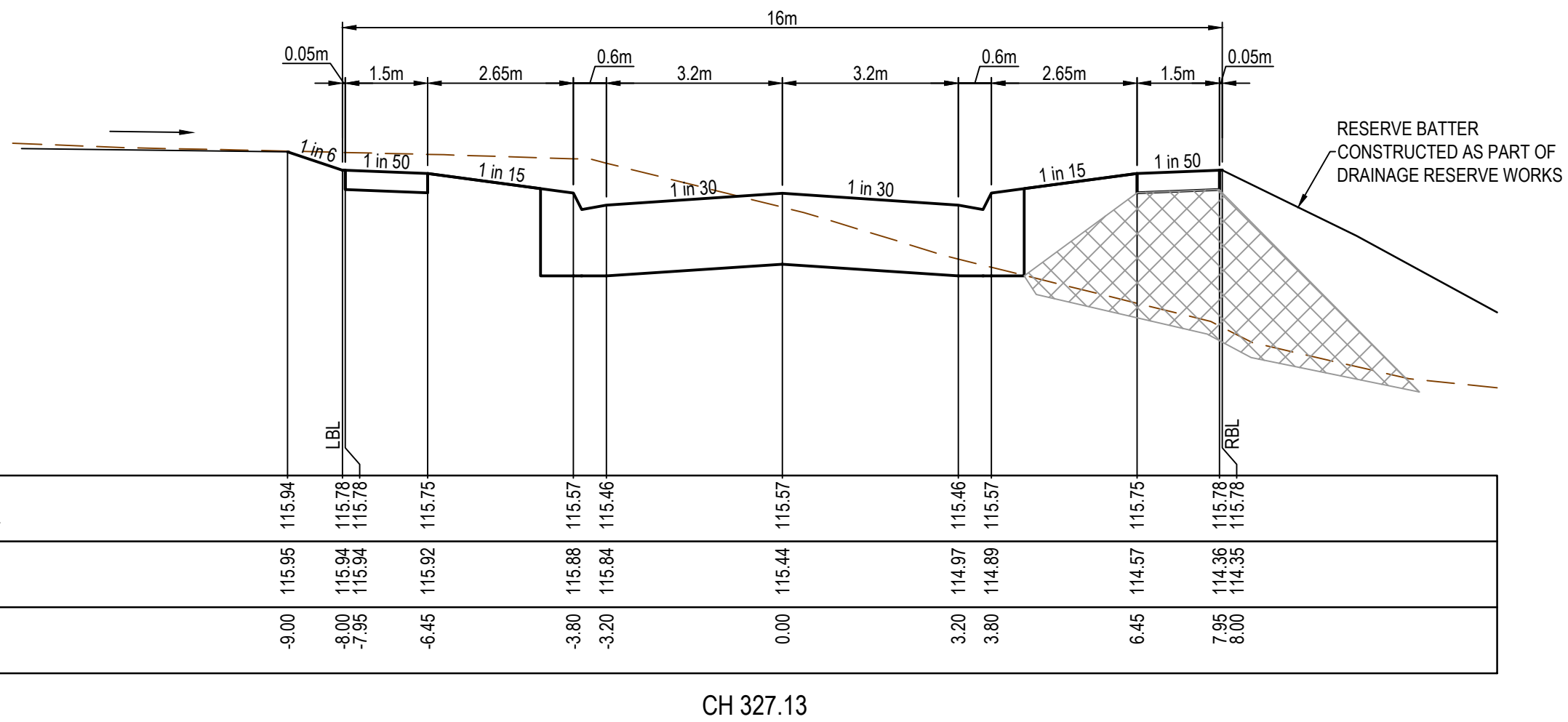
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EXISTING SURFACE	117.07	117.05	117.05	117.02	116.97	116.95	116.83	116.81	116.76	116.72	116.72
OFFSET	-9.00	-8.00	-7.96	-6.45	-3.80	-3.20	0.00	3.20	3.80	6.45	7.96

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



LATIGO STREET



REFER TO STAGE 15 DWG 2152E-SK01 FOR DAM
FILLING AND EARLY EARTHWORKS. TO BE
SUBMITTED UNDER A SEPARATE COVER

SPRINT ROAD

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON



Quality Management ISO 9001:2015



OHS Management AS/NZS 4801:2001



Environmental Management ISO 14001:2015

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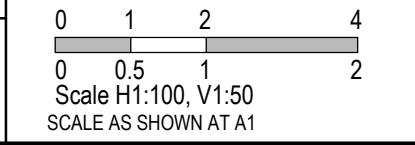
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PLAN OF SUB. NO.
PS905211S

PERMIT REF. NO.
PA2017/5710

SUBJECT TO APPROVAL





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

Westwood - Stage 13
Melton City Council
Road and Drainage
Cross Sections: Sprint Road
Ch 320.58 - Ch 327.13 & Latigo Street

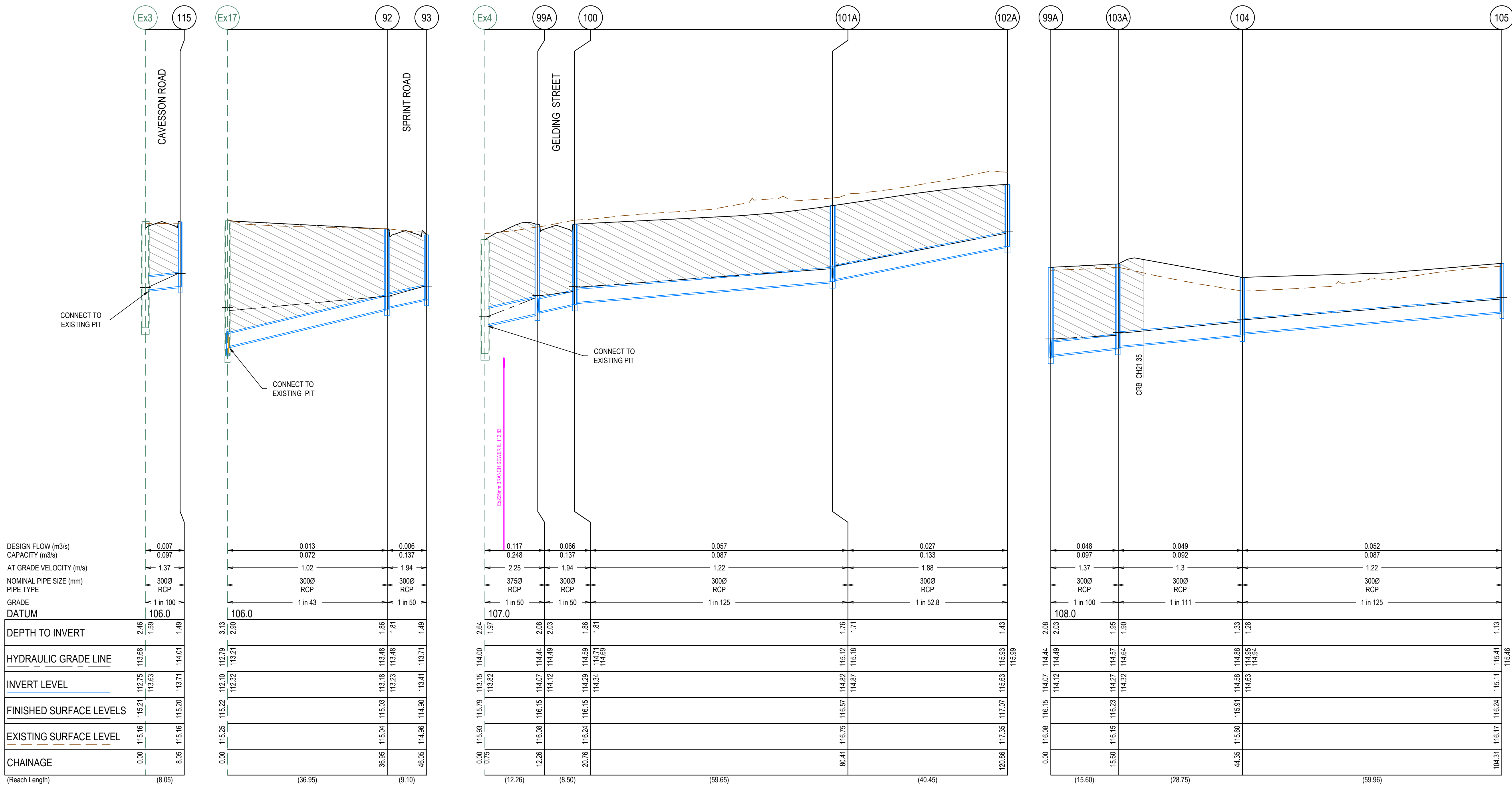
MELWAYS REF
356 B1

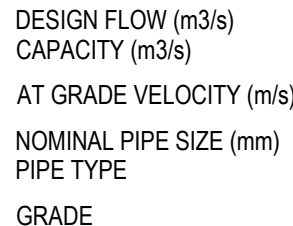
PROJECT / Drawing No.
2152E-013-257

SHEET No.
18 of 27

REVISION
A

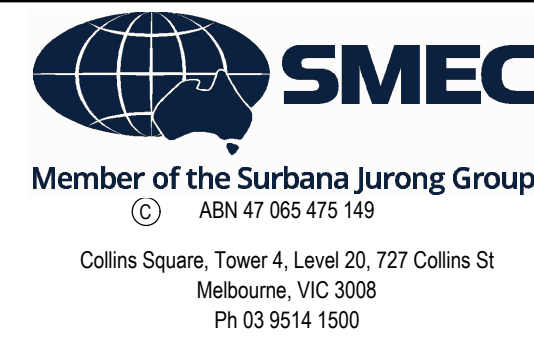
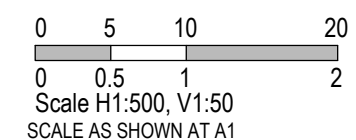
CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE





DATUM	108.0			
DEPTH TO INVERT	1.13	1.08	1.14	1.09
HYDRAULIC GRADE LINE	115.41	115.46	115.70	115.84
INVERT LEVEL	115.11	115.16	115.47	115.52
FINISHED SURFACE LEVELS	116.24		116.61	116.85
EXISTING SURFACE LEVEL	116.17		116.63	116.91
CHAINAGE	104.31		150.35	158.85

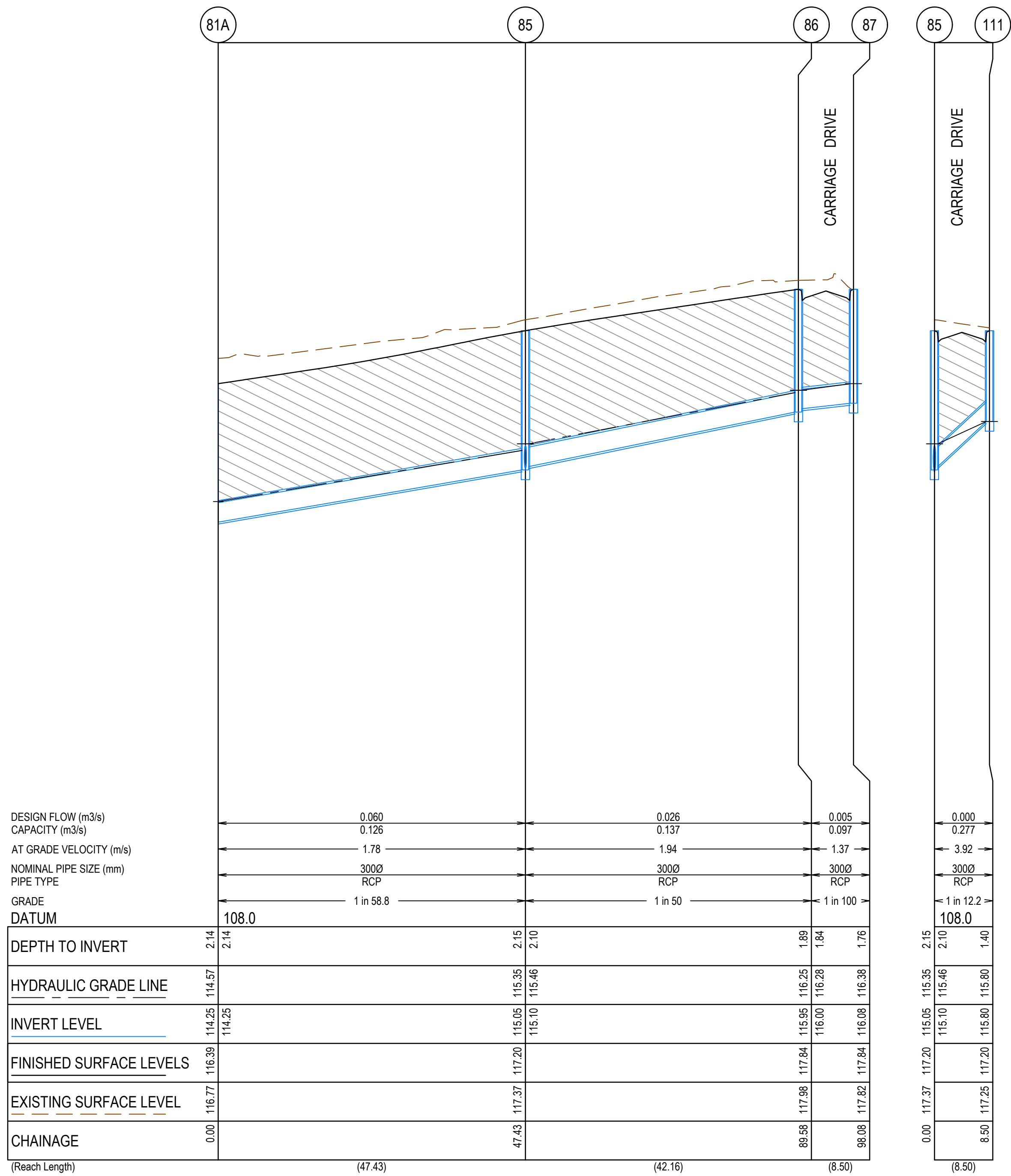
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Drainage Longitudinal Sections - 2

MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-302	SHEET No. 20 of 27	REVISION A
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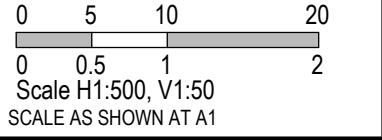
CRUSHED ROCK BACKFILL
CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE
WITH COUNCIL STANDARDS & SPECIFICATIONS, CLASS 3 UNLESS
SPECIFIED OTHERWISE



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER
A	NI	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON








PLAN OF SUB. NO.
PERMIT REF. NO.
SUBJECT TO APPROVAL

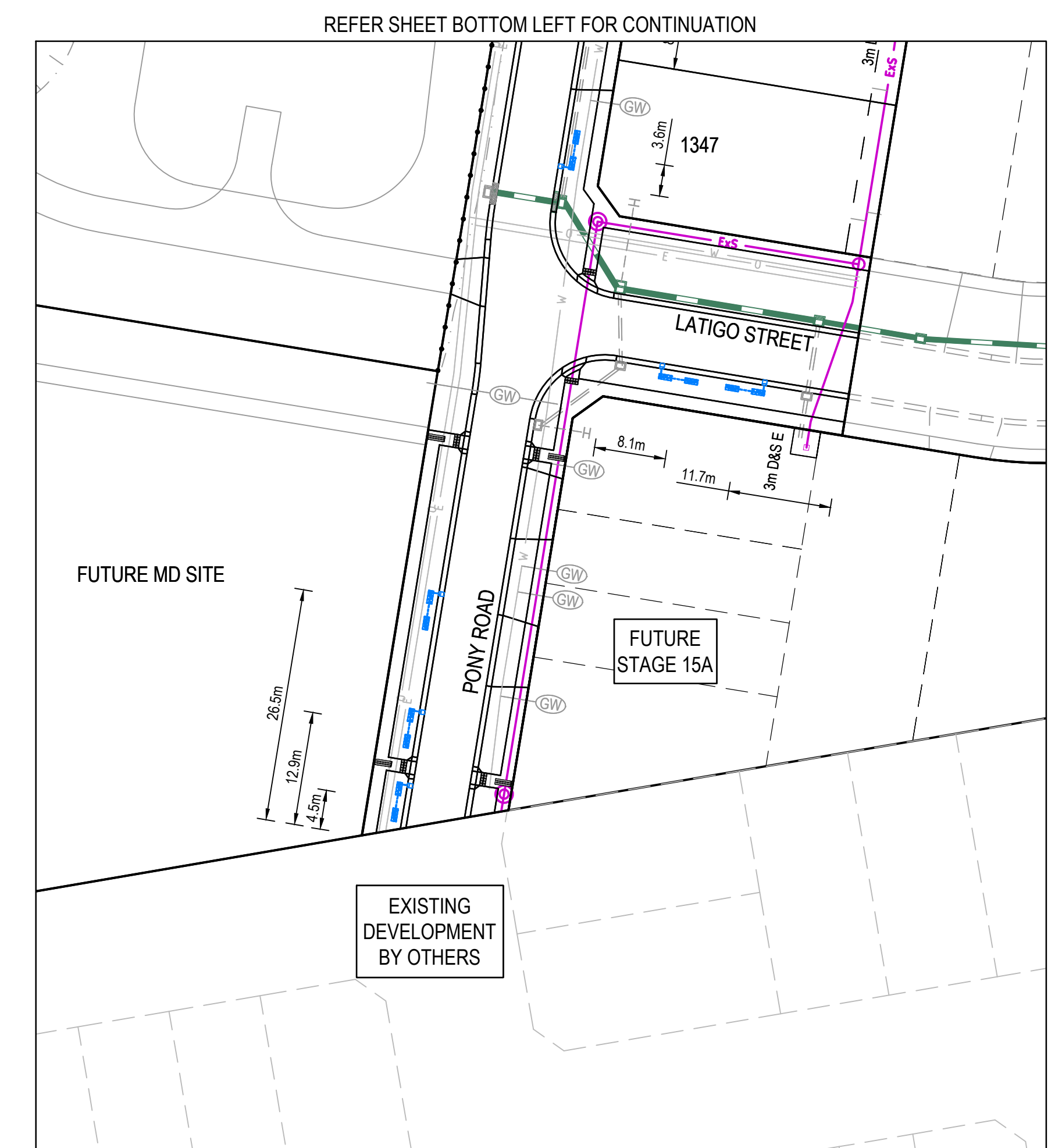
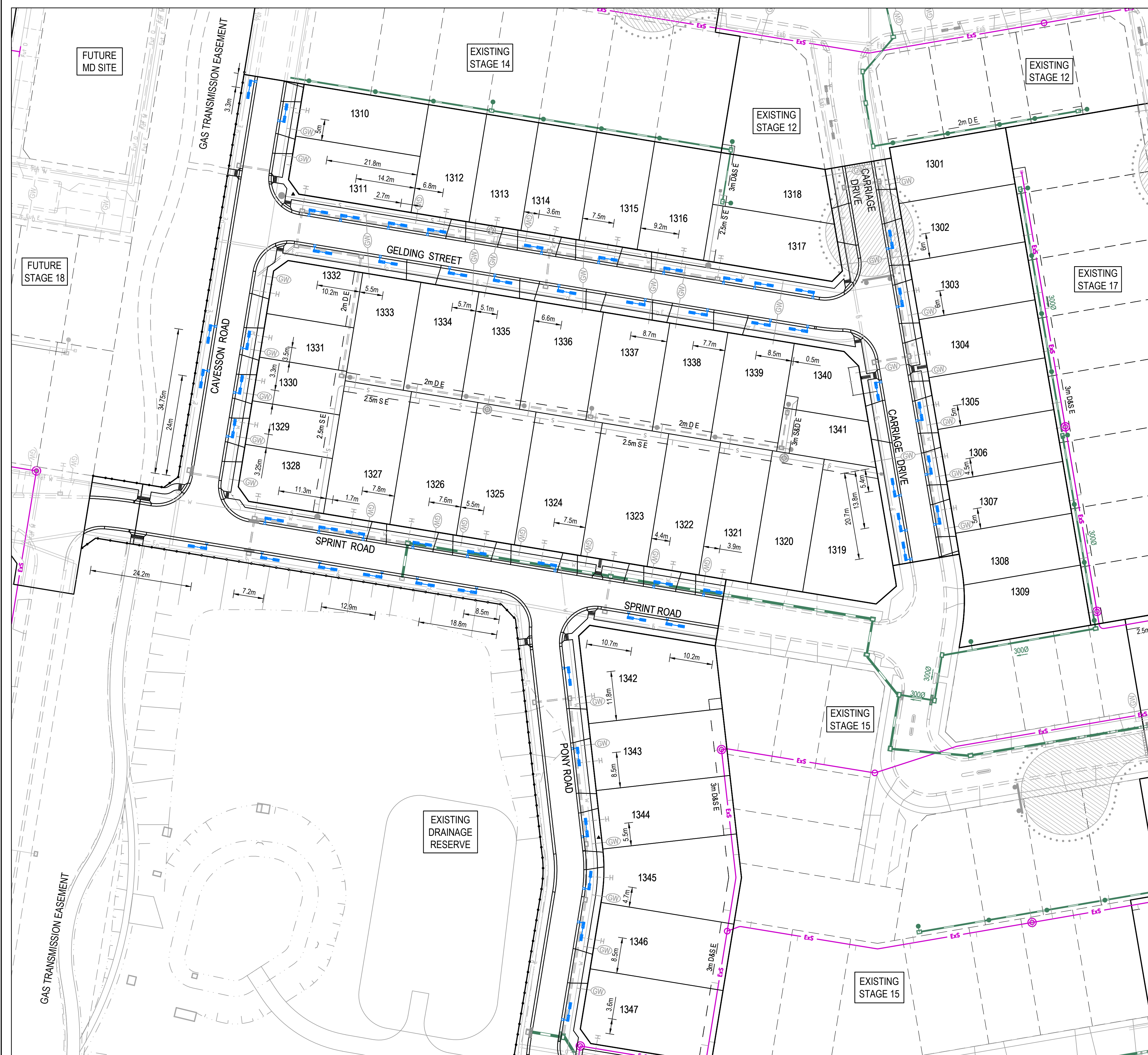


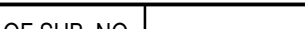





Westwood - Stage 13
Melton City Council
Road and Drainage
Drainage Longitudinal Sections - 1

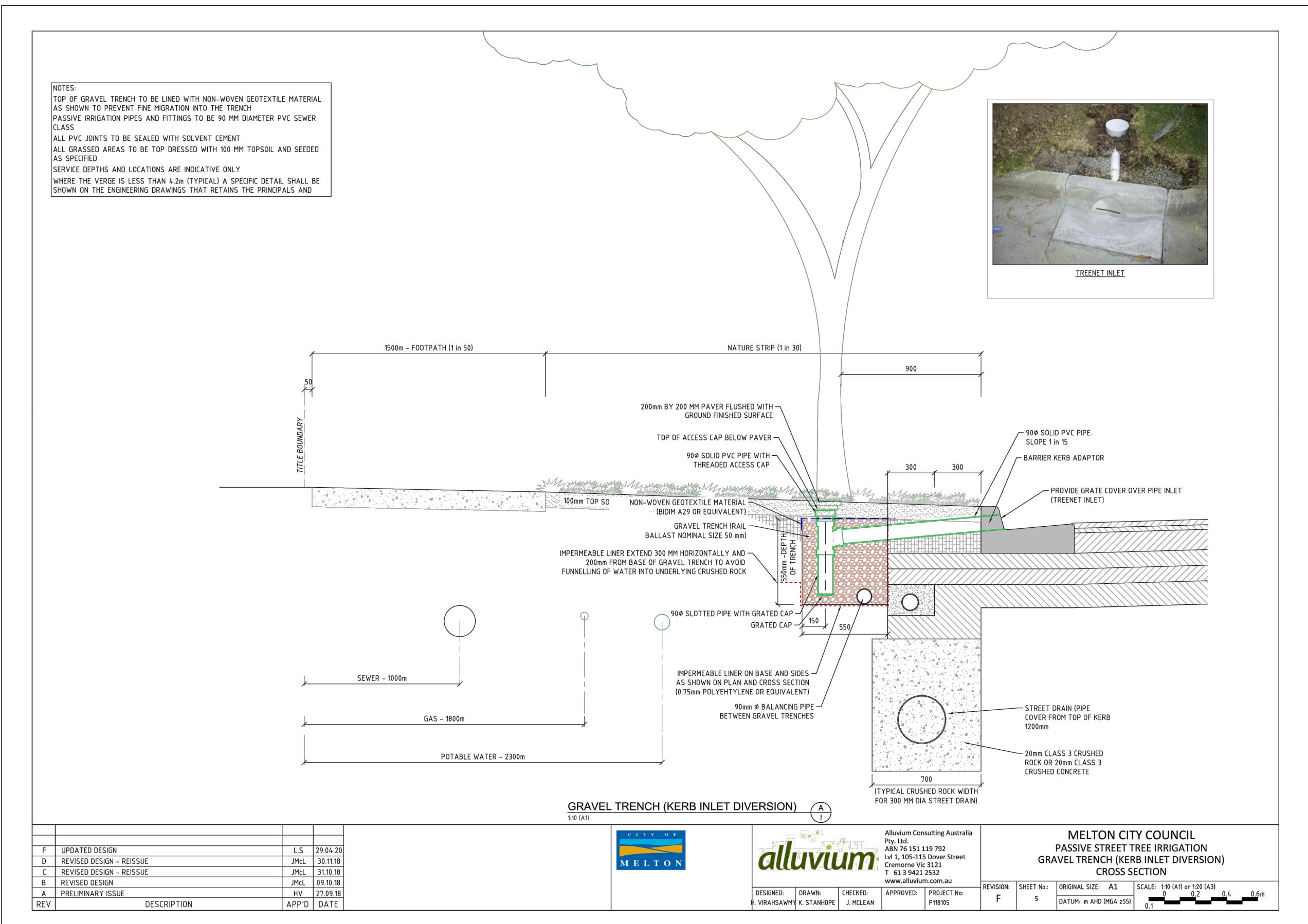
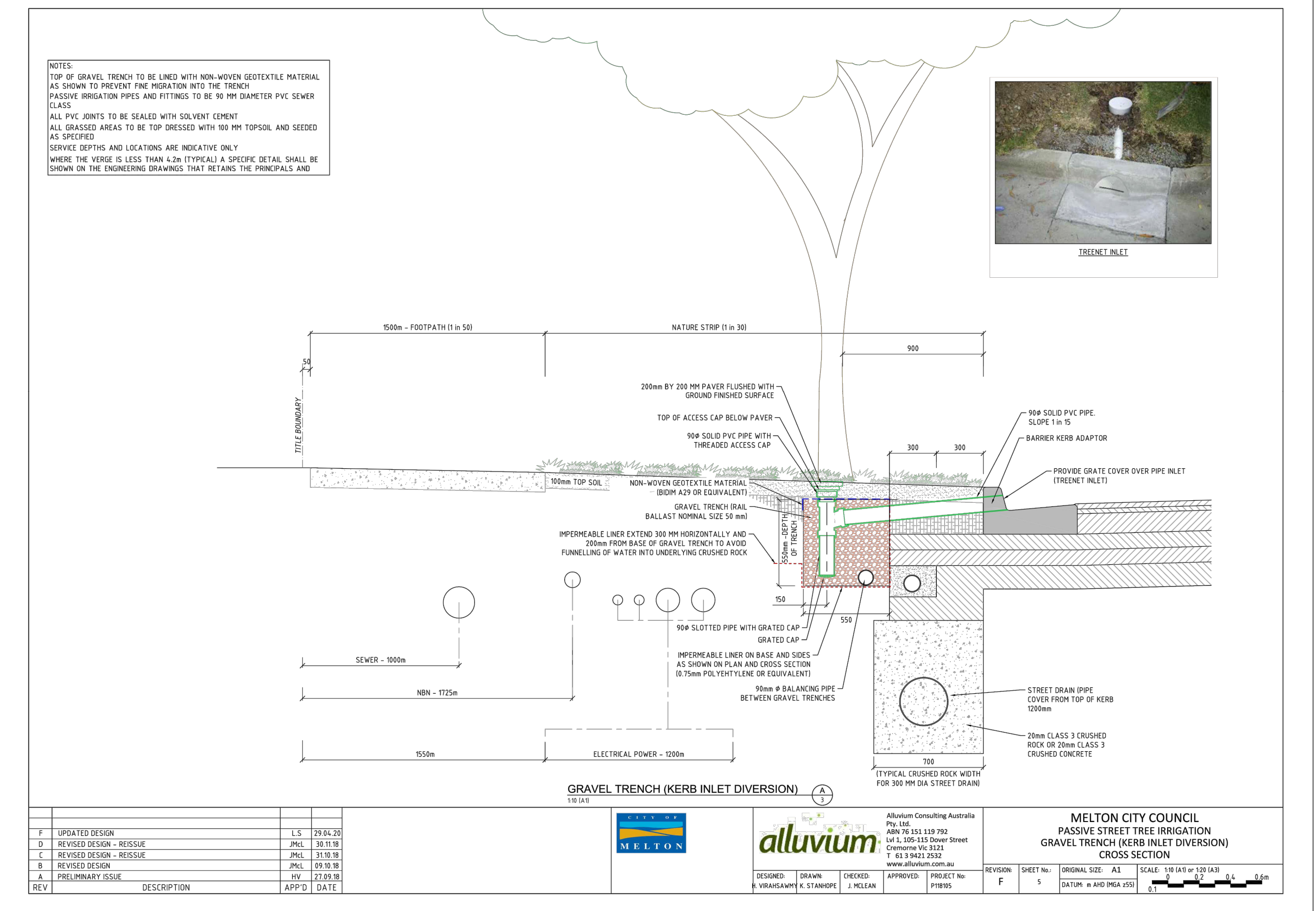
MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-301	SHEET No. 16 of 24	REVISION A
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PIT SCHEDULE											
PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH (mm)	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex3	Ex.JP	Ex1500	Ex900	300	113.625			115.211	2.457	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex1050	112.804	Ex1050	112.754				
115	GRATED ENTRY PIT	600	900			300	113.705	115.2	1.495	EDCM 601 & EDCM 605	
Ex17	Ex.JP	750	900	300	112.32			115.224	3.125	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex525	112.149	Ex525	112.099				
92	DOUBLE GRATED ENTRY PIT	600	900	300	113.229			115.034	1.855	EDCM 602 & EDCM 605	
93	DOUBLE GRATED ENTRY PIT	600	900			300	113.411	114.899	1.488	EDCM 602 & EDCM 605	
Ex4	Ex.JP	Ex1500	Ex1050	375	113.823			115.789	2.641	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex1050	113.198	Ex1050	113.148				
99A	GRATED ENTRY PIT	600	900	300	114.119	375	114.069	116.148	2.08	EDCM 601 & EDCM 605	
100	GRATED ENTRY PIT	600	900	300	114.339	300	114.289	116.148	1.86	EDCM 601 & EDCM 605	
101A	GRATED ENTRY PIT	600	900	300	114.866	300	114.816	116.575	1.759	EDCM 601 & EDCM 605	
102A	GRATED ENTRY PIT	600	900			300	115.632	117.065	1.433	EDCM 601 & EDCM 605	
103A	JUNCTION PIT	600	900	300	114.325	300	114.275	116.226	1.952	EDCM 605	
104	JUNCTION PIT	600	900	300	114.633	300	114.583	115.912	1.328	EDCM 605	
105	JUNCTION PIT	600	900	225	115.163	300	115.113	116.24	1.127	EDCM 605	
106A	JUNCTION PIT	600	900	225	115.52	225	115.47	116.613	1.143	EDCM 605	
107	JUNCTION PIT	600	900			225	115.69	116.848	1.158	EDCM 605	
108	GRATED ENTRY PIT	600	900			300	114.951	116.58	1.629	EDCM 601 & EDCM 605	
Ex5	Ex.JP	Ex1500	Ex900	300	114.278			116.059	2.531	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex1050	113.578	Ex1050	113.528				
109	GRATED ENTRY PIT	600	900			300	114.439	116.095	1.656	EDCM 601 & EDCM 605	
Ex18	Ex.JP	Ex750	Ex900	300				115.468	2.831	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex525	112.69	Ex525	112.64				
96	GRATED ENTRY PIT	600	900			300	113.923	115.463	1.54	EDCM 601 & EDCM 605	
Ex55	Ex.JP	Ex1050	Ex1050			600	111.2	113.631	2.43	EDCM 602 &VR SD1023	CONSTRUCT DOUBLE PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600x900 COVER
Ex1	Ex.JP	Ex600	Ex1200	300	111.93			113.622	2.119	EDCM 602 & EDCM 607	CONSTRUCT DOUBLE PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex600	111.684	Ex600	111.5	113.619			
88	GRATED ENTRY PIT	600	900	300	112.437	300	112.387	114.068	1.682	EDCM 601 & EDCM 605	
89	JUNCTION PIT	600	900	300	112.672	300	112.622	114.265	1.643		
90	GRATED ENTRY PIT	600	900	300	113.211	300	113.161	114.831	1.671	EDCM 601 & EDCM 605	
91	GRATED ENTRY PIT	600	900			300	113.296	114.804	1.509	EDCM 601 & EDCM 605	
Ex2	Ex.JP	Ex1200	Ex900	300	111.854			113.841	2.037	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex600	111.854	Ex600	111.804				
94	GRATED ENTRY PIT	600	900	300	111.944	300	111.894	113.873	1.979	EDCM 601 & EDCM 605	
95	GRATED ENTRY PIT	600	900			300	111.994	113.741	1.747	EDCM 601 & EDCM 605	
Ex3A	Ex.JP	Ex900	Ex900	375	112.2			114.263	2.179	EDCM 601 & EDCM 607	CONSTRUCT PRECAST CATCH PIT ON EXISTING JP. HAUNCH PIT TO 600X900 COVER
				Ex525	112.158	Ex600	112.083				
84	GRATED ENTRY PIT	600	900	375	112.28	375	112.23	114.273	2.042	EDCM 601 & EDCM 605	
84A	ENDPIPE			375	112.299	375	112.299	114.327	2.027		ENDPIPE FOR FUTURE CONNECTION
81A	ExENDPIPE			300				116.385	2.137		CONNECT TO EXISTING ENDPIPE
85	GRATED ENTRY PIT	600	900	300	115.104	300	115.054	117.203	2.149	EDCM 601 & EDCM 605	
86	GRATED ENTRY PIT	600	900	300	115.998	300	115.948	117.842	1.894	EDCM 601 & EDCM 605	
87	GRATED ENTRY PIT	600	900			300	116.083	117.842	1.759	EDCM 601 & EDCM 605	
111	GRATED ENTRY PIT	600	900			300	115.8	117.203	1.403	EDCM 601 & EDCM 605	


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER				 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	Westwood - Stage 13 Melton City Council Road and Drainage Drainage Longitudinal Sections - 3							
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON						MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-351	SHEET No. 21 of 27	REVISION A				
							 Global-Mark.com.au®			 Global-Mark.com.au®			 Global-Mark.com.au®			PLAN OF SUB. NO. PS905211S			
										PERMIT REF. NO. PA2017/5710									
							SUBJECT TO APPROVAL												



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	<div><div><div> Quality Management - ISO 9001 Global-Mark.com.au®</div><div> OHS Management - AS/NZS 1801 Global-Mark.com.au®</div><div> Environmental Management - ISO 14001 Global-Mark.com.au®</div></div><div><div>PLAN OF SUB. NO. PS905211S</div><div>PERMIT REF. NO. PA2017/5710</div></div></div>			<div><div><div>01020</div><div>Scale 1:500</div><div>SCALE AS SHOWN AT A1</div></div><div></div><div><div>SMC</div><div>Member of the Surbana Jurong Group</div><div>ABN 47 065 475 149</div><div>Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</div></div></div>			<div><div></div><div>WESTWOOD</div></div>			<div>Westwood - Stage 13 Melton City Council Road and Drainage Passive Irrigation Plan</div>		
							MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-361			SHEET No. 23 of 27			REVISION A				



 <p>Quality Management ISO 9001</p> <p>Global-Mark.com.au®</p>	 <p>OHS Management AS/NZS 1899</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>PS905211S</p> <p>PERMIT REF. NO.</p> <p>PA2017/5710</p>
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 **SMEC**

Member of the Surbana Jurong Group

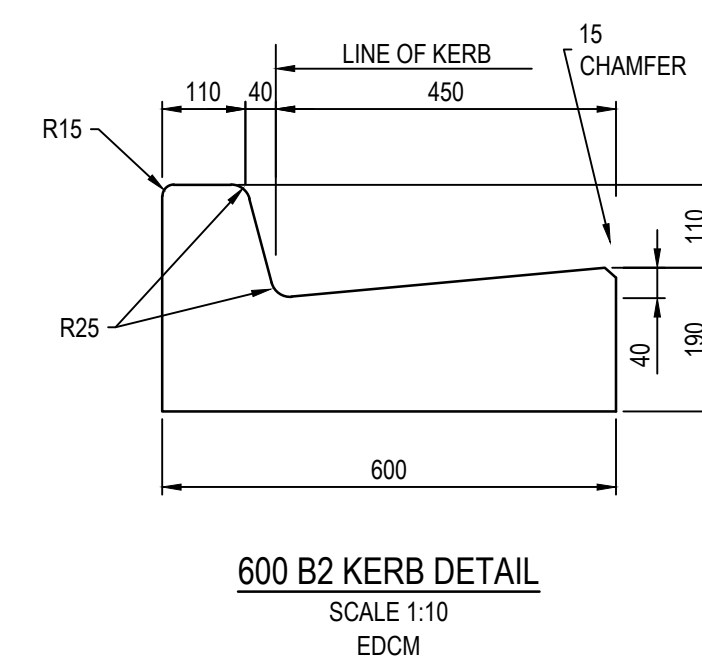
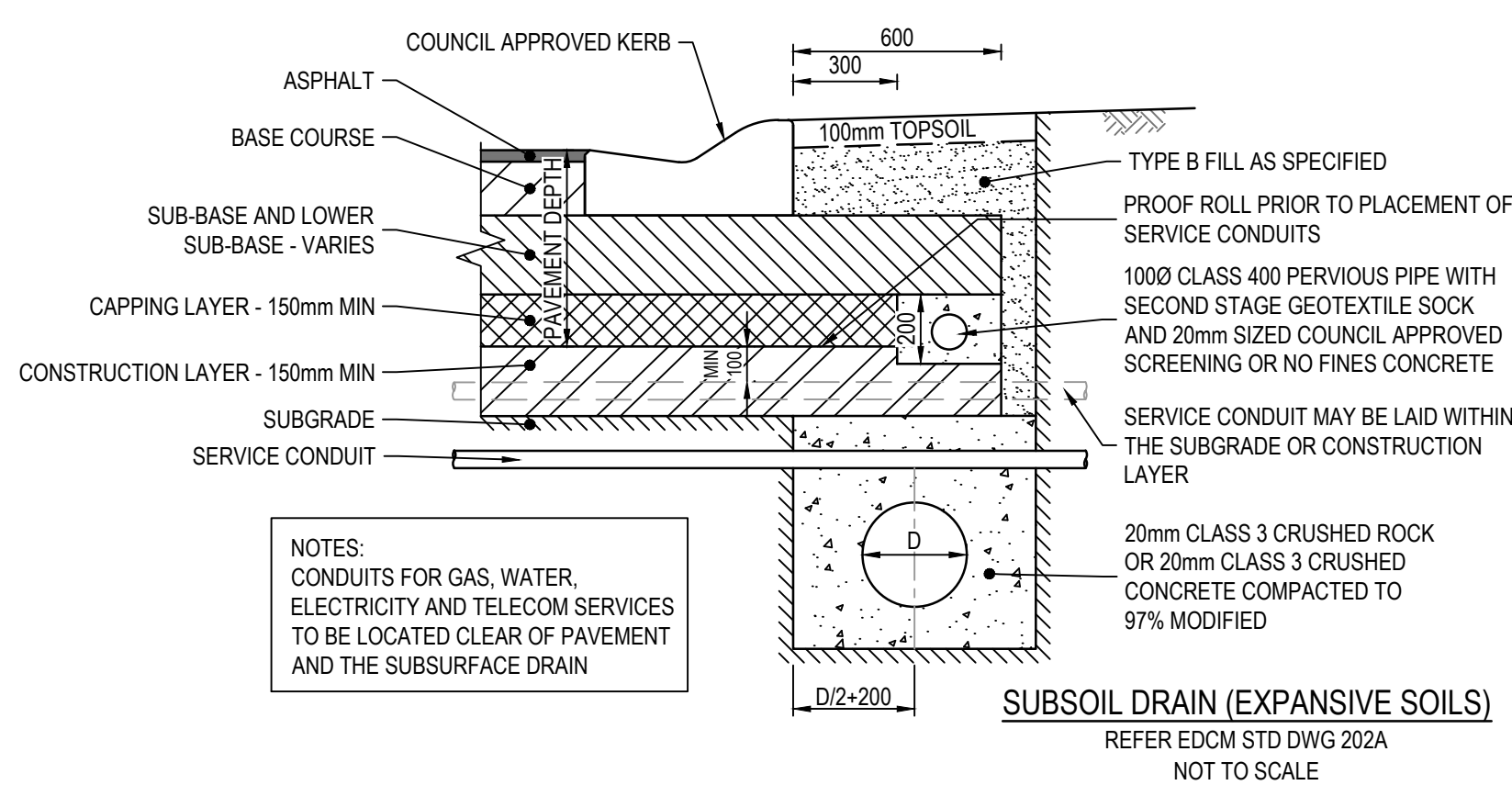
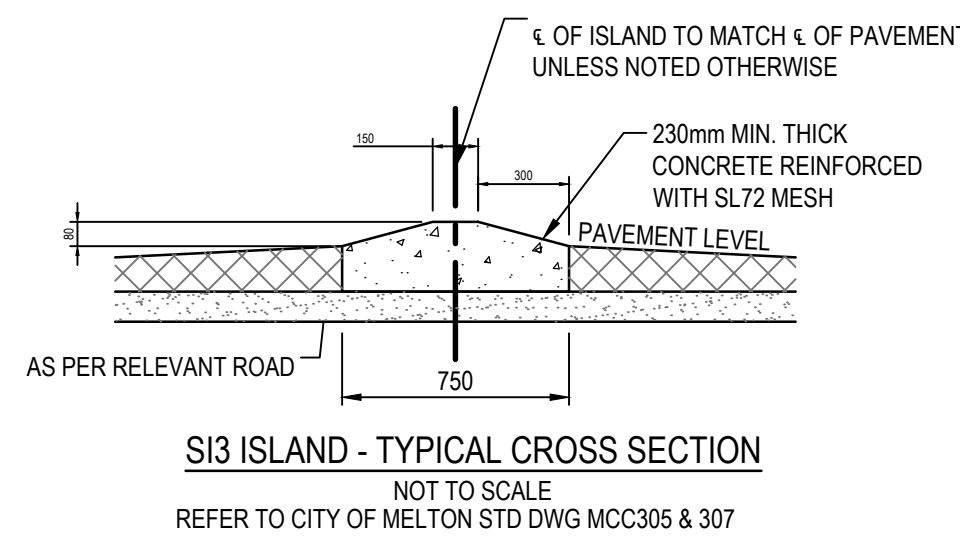
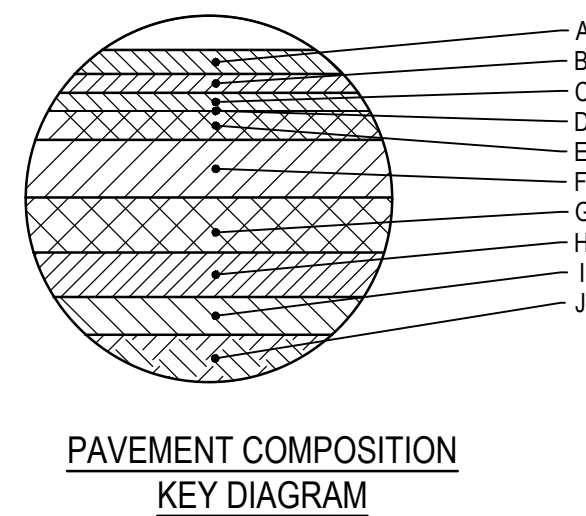
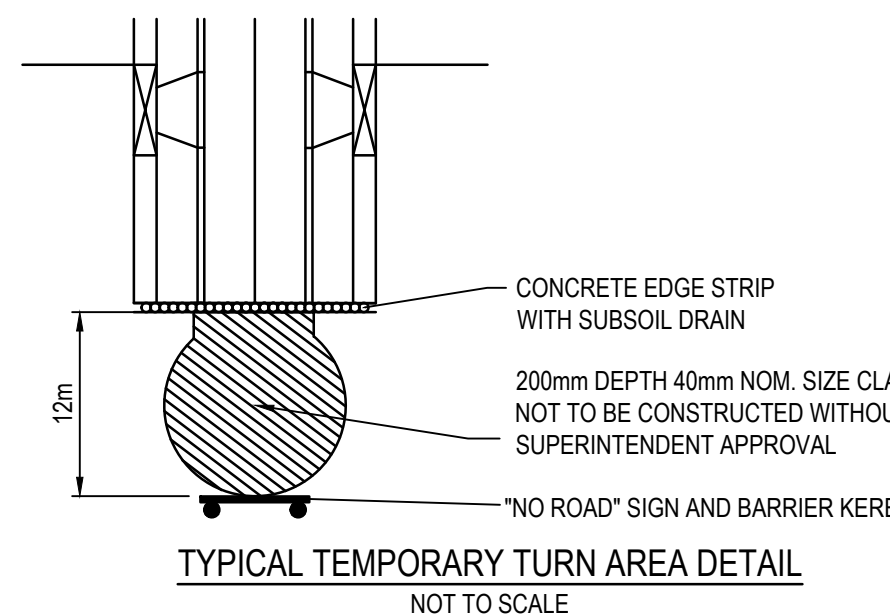
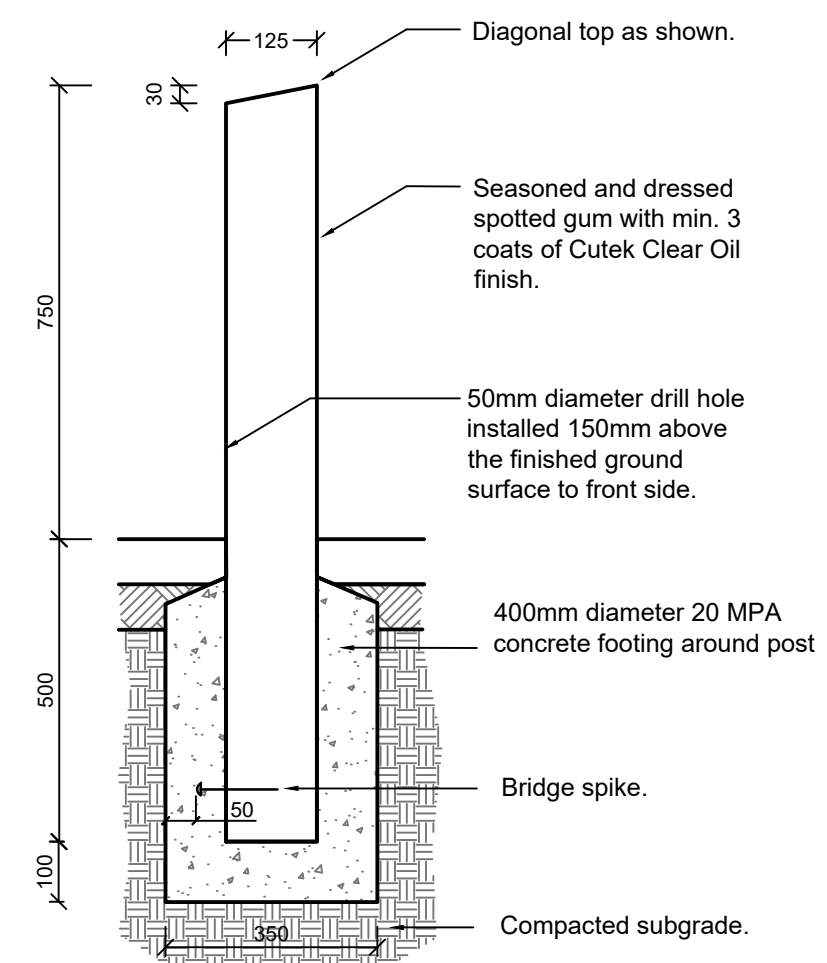
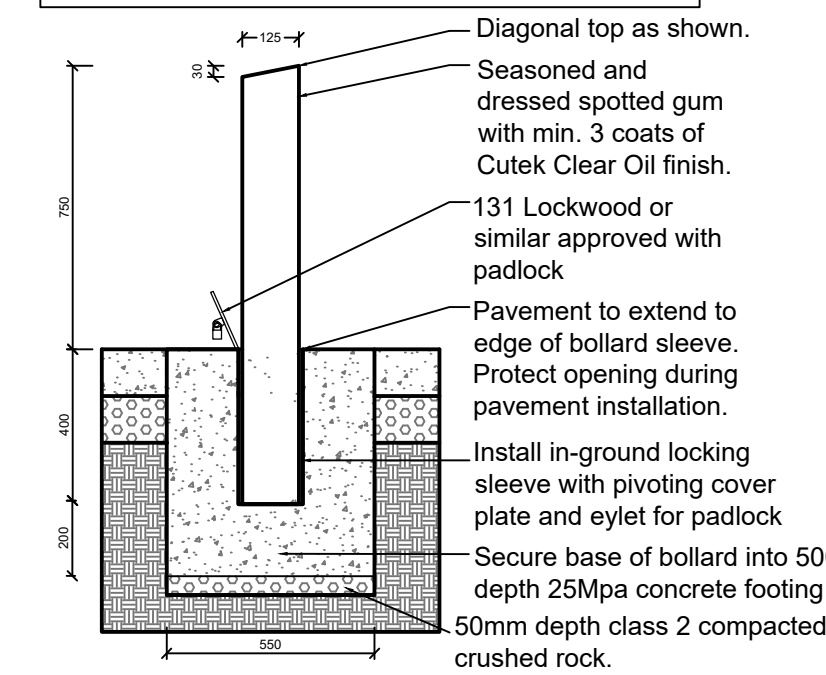
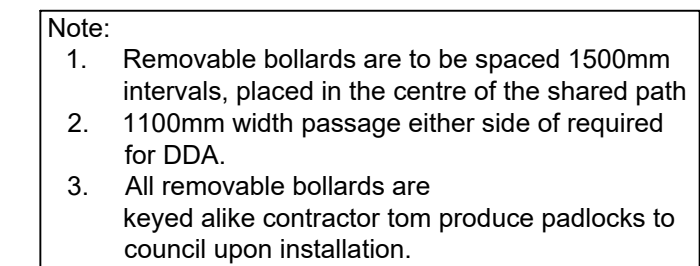
(C) ABN 47 065 475 149

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

Westwood - Stage 13
Melton City Council
Road and Drainage
Passive Irrigation Details

MELWAYS REF 356 B1	PROJECT / DRAWING No. 2152E-013-362	SHEET No. 24 of 27	REVISION A
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LATIGO STREET (20.5m ROAD RESERVE)		
700mm DEPTH PAVEMENT COMPOSITION		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14mm TYPE N CLASS 320 ASPHALT
B BASE COURSE	75	SIZE 20mm TYPE SI CLASS 320 ASPHALT
C BASE COURSE	75	SIZE 20mm TYPE SI CLASS 320 ASPHALT
D BONDING LAYER	-	BITUMINOUS PRIME
E SUBBASE	110	SIZE 20mm CLASS 3 CEMENT TREATED (3% BY WEIGHT) CRUSHED ROCK, COMPACTED TO A MEAN DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289, 5.2.1
F CAPPING LAYER	250	TYPE A MATERIAL (SELECT FILL) MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR≥7%, SWELL≤1.5% PERMEABILITY K ≤1 x 10 ⁻⁶ m/s (1 x 10 ⁻⁶ cm/s) COMPACTED TO A MINIMUM DENSITY RATIO OF 100% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1 COMPACTED AT MOISTURE CONTENTS OF +/-2% OF STANDARD OPTIMUM MOISTURE CONTENT
G CONSTRUCTION LAYER	150	TYPE A MATERIAL (SELECT FILL) MEETING THE FOLLOWING MATERIAL PROPERTIES: CBR≥7%, SWELL≤1.5%, COMPACTED TO A MINIMUM DENSITY RATIO OF 100% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1 COMPACTED AT MOISTURE CONTENTS OF +/-2% OF STANDARD OPTIMUM MOISTURE CONTENT
H SUBGRADE	-	MATERIAL AS FOUND (CLAY), TOP 200mm COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289, 5.1.1



WARNING
Beware of Underground Services








The locations of underground services are approximate only and their exact position should be proven on site.

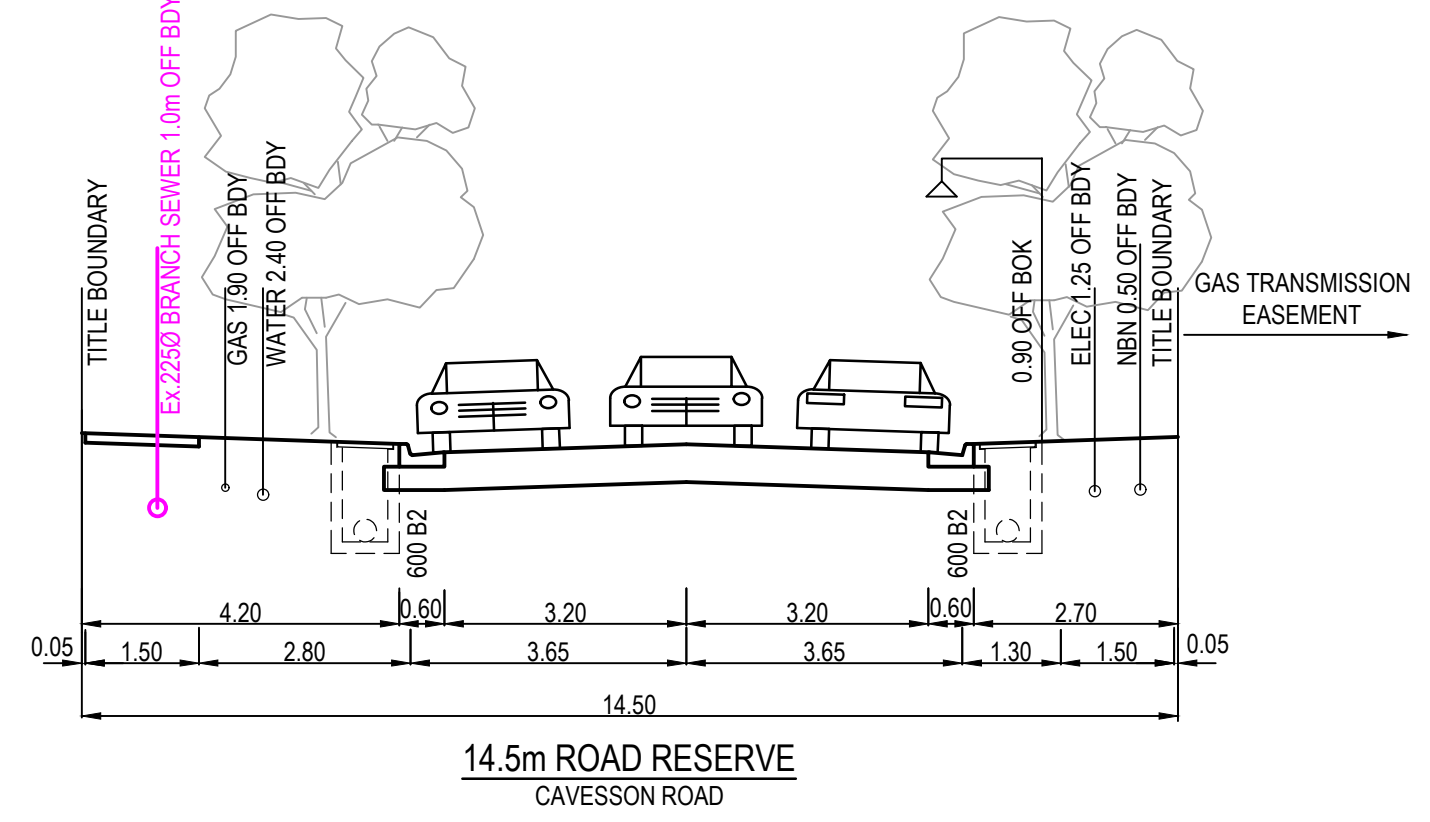
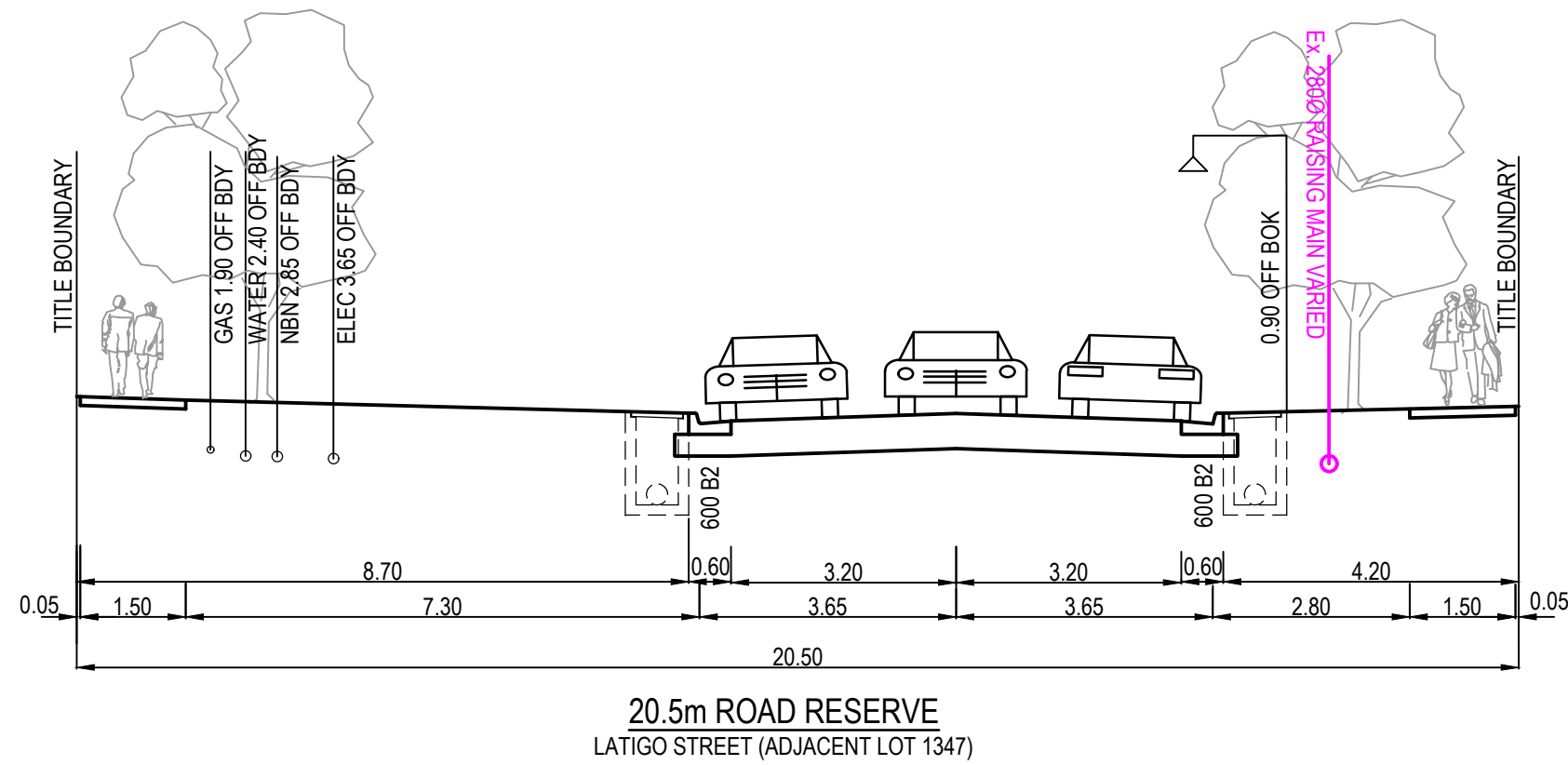
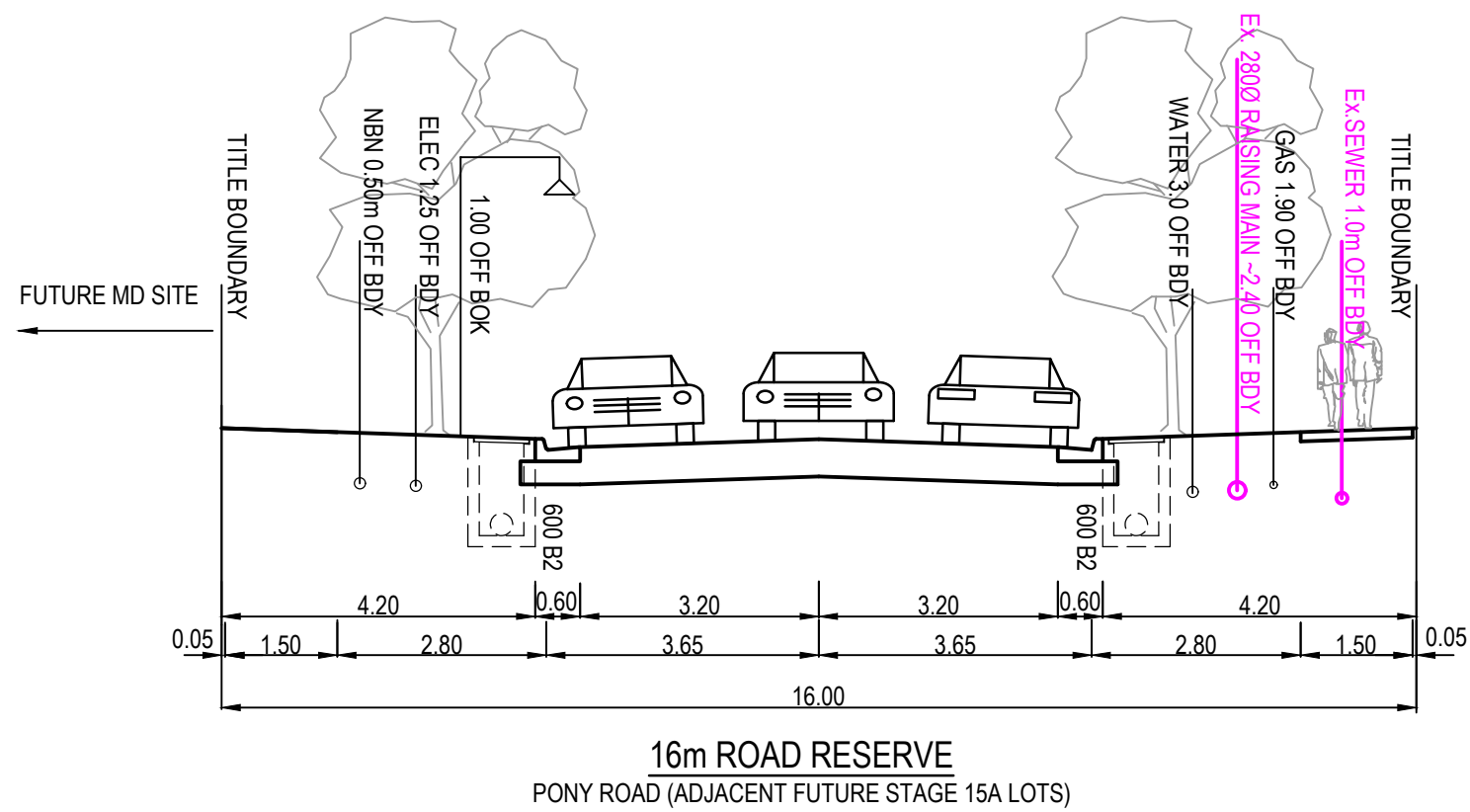
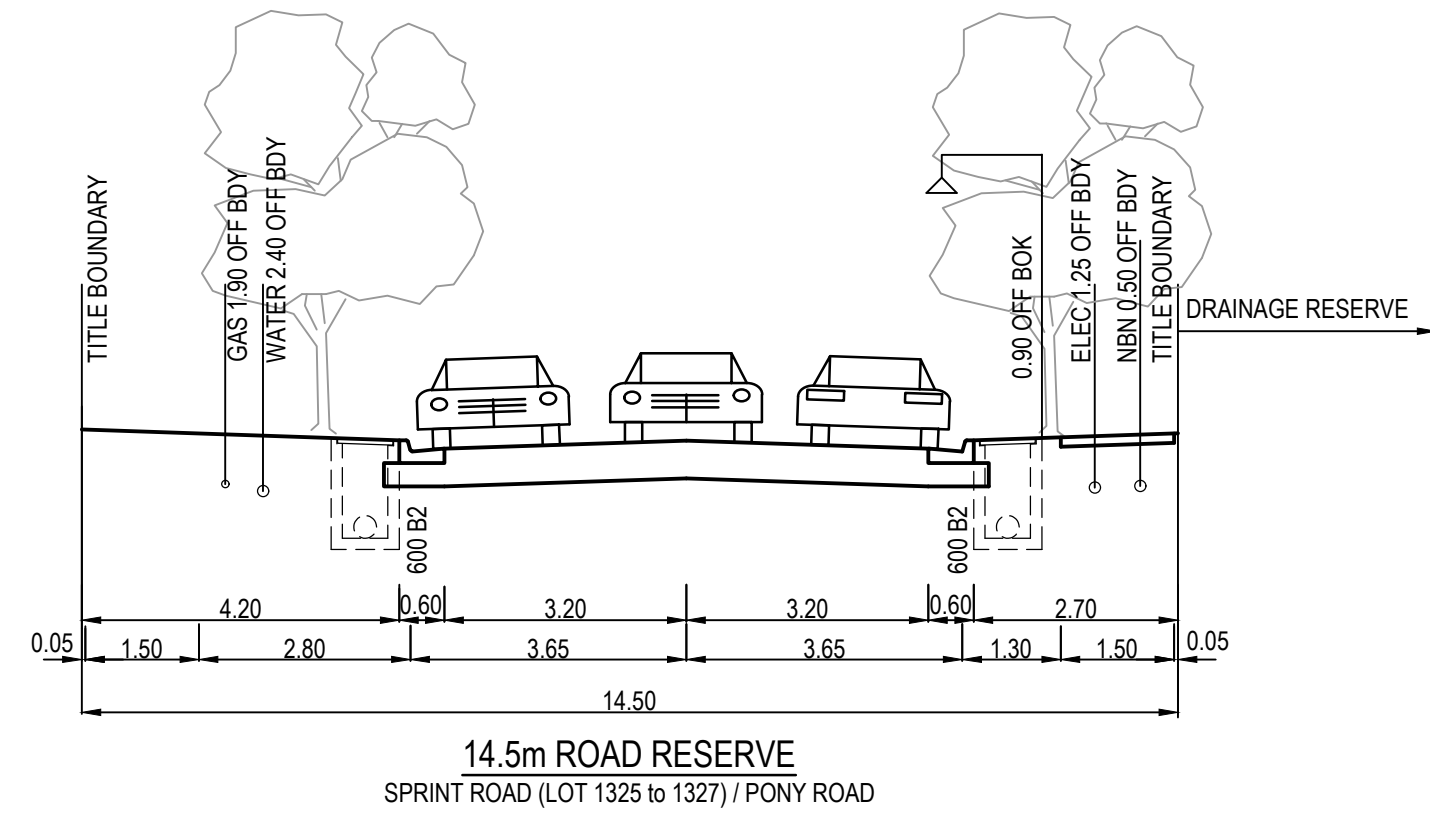
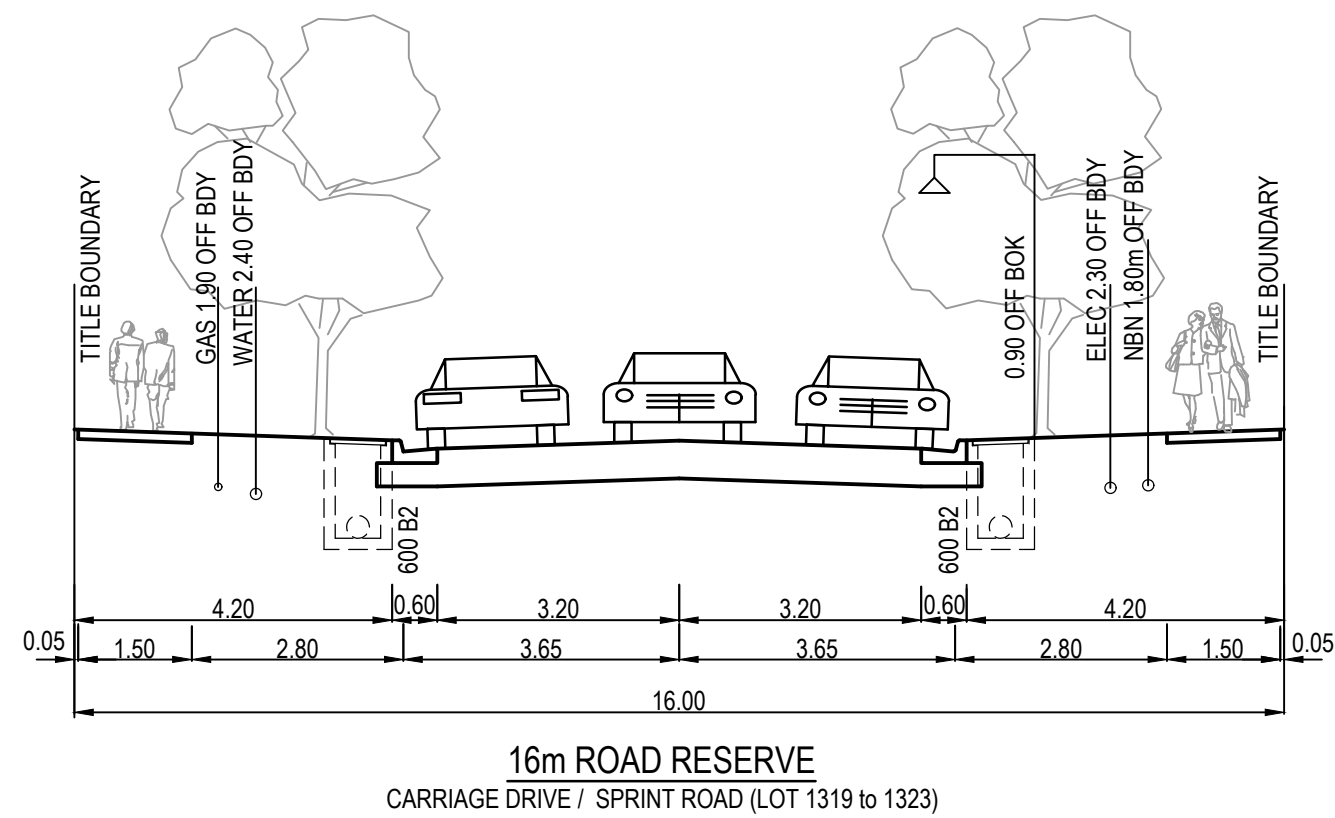
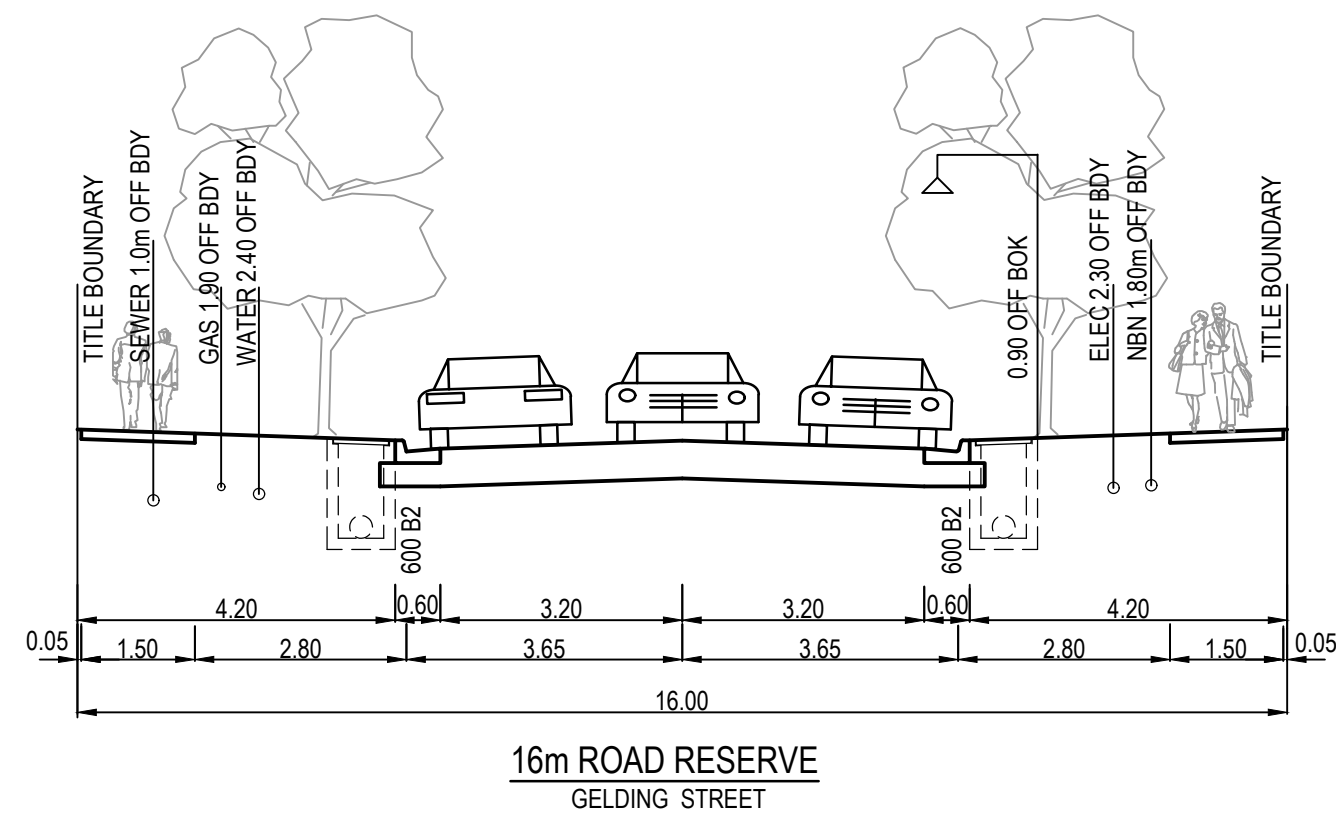
No guarantee is given that all existing services are shown.

Locate all underground services before commencement of works

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER										
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON	   <p>PLAN OF SUB. NO. PS905211S</p> <p>PERMIT REF. NO. PA2017/5710</p> <p>Global-Mark.com.au® Global-Mark.com.au® Global-Mark.com.au®</p>	 <p>Scale 1:1000</p> <p>SCALE AS SHOWN AT A1</p>		 <p>Member of the Surbana Jurong Group</p> <p>Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500</p>	 <p>WESTWOOD</p>	<p>Westwood - Stage 13 Melton City Council Road and Drainage Pavement & General Details</p>	<p>MELWAYS REF 356 B1</p>	<p>PROJECT / DRAWING No. 2152E-013-411</p>	<p>SHEET No. 25 of 27</p>	<p>REVISION A</p>
							<div style="border: 2px solid black; padding: 5px; text-align: center; font-weight: bold;">SUBJECT TO APPROVAL</div>									



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DRAFTER	DESIGNER	CHECKER	APPROVER	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	PLAN OF SUB. NO.	PERMIT REF. NO.	SCALE	MEMBER OF THE SURBANA JURONG GROUP	WESTWOOD	MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
A	10.05.22	ISSUED TO COUNCIL FOR APPROVAL	N.SHRESTHA	A.PERKINS	A.PERKINS	C.WILKINSON	Global-Mark.com.au®	Global-Mark.com.au®	Global-Mark.com.au®	PS905211S	PA2017/5710	Scale 1:100	Member of the Surbana Jurong Group	WESTWOOD	356 B1	2152E-013-412	26 of 27	A

PHASE	DISCIPLINE CODE		POTENTIAL RISK (Construction, Operations, Maintenance)		RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL (Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED? YES / NO	RESIDUAL RISK LIKELIHOOD (0-5)	RESIDUAL RISK CONSEQUENCE (0-5)	RESIDUAL RISK RATING	RESIDUAL RISK OWNER
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	RD	Roads	Culverts	Potential risk from culverts under construction and height / fall hazards	Contractor	Falling from a height	Temporary barriers to be provided	Temporary barrier provided in contract	N	2	5	10	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
Operational	RD	Roads	Culverts	Potential fall hazard during maintenance, by vehicles and pedestrians	Relevant Authority	Falling from a height	Barriers to be provided in accordance with road standards	Barriers to be provided and safe batter slopes (>1:3)	N	2	5	10	Constructor
Retaining Walls													
Construction	RW	Retaining Walls	Retaining Wall Alignment	Falling from height during construction or commissioning of walls and adjacent structures eg. sewer manholes	Contractor	Falling from a height	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	1	1	Constructor
Operational	RW	Retaining Walls	Retaining Wall Alignment	Lack of safe access/setback from road	Road/ Local Authority	Increased potential for accidents	Establish adequate and accessible clear zone provision. Provide guardrail where required	Wall located in suitable position during design process and approved by authority	N	1	1	1	Authority
Operational	RW	Retaining Walls	Retaining Wall Height	Potential for falling from height	Road/ Local Authority	Personal injury	Provide temporary and permanent fencing at top of wall.	Provide fencing (at heights) during design process	N	1	5	5	Authority
Operational	RW	Retaining Walls	Retaining Wall Design	Potential for wall failure	Road/ Local Authority	Increased potential for accidents	Structural design in accordance with standards, geotechnical conditions, end use and good practise.	Refer to structural drawings and calculations	N	1	5	5	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