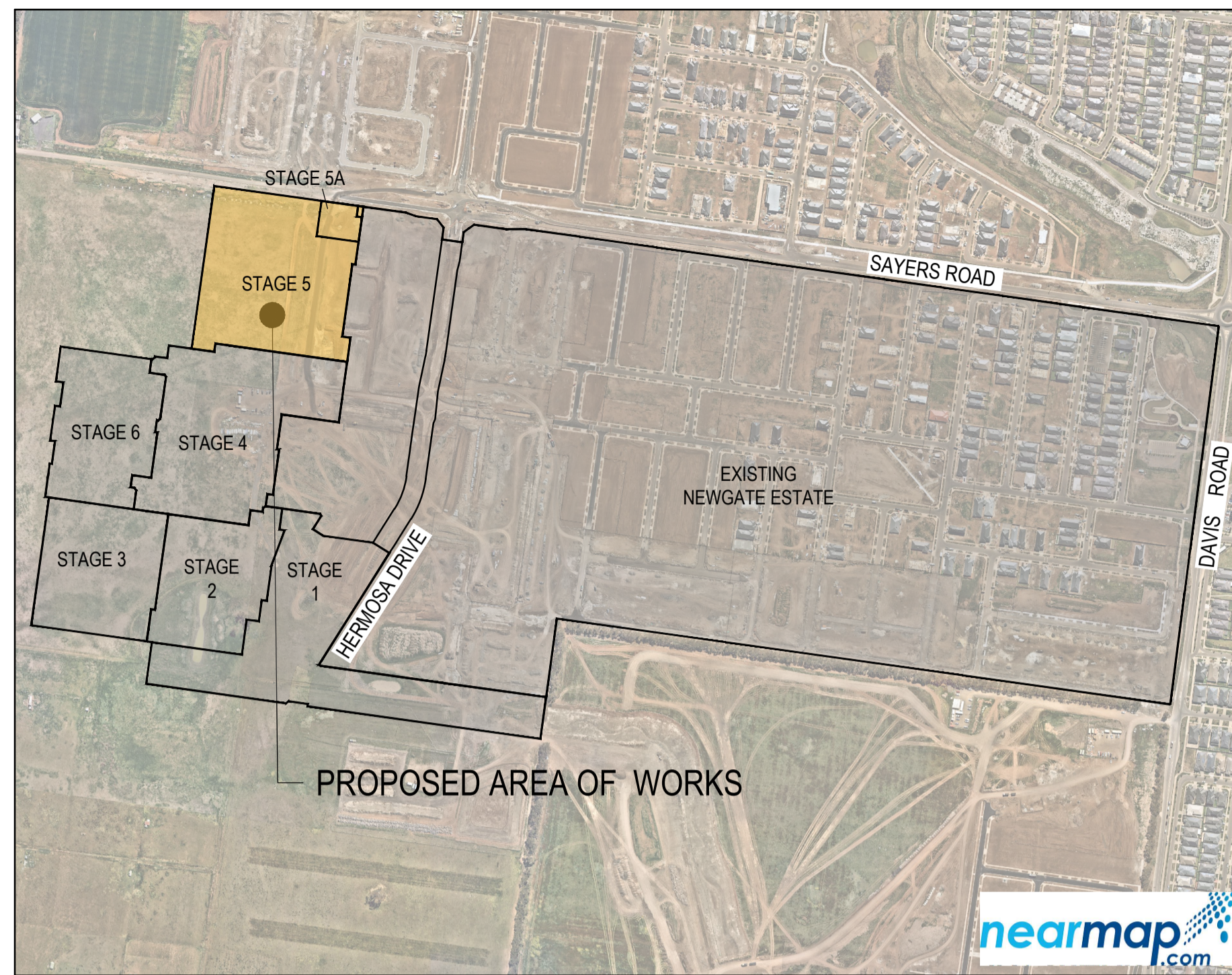


Alamora Estate Stage 5, Sayers Road, Tarneit



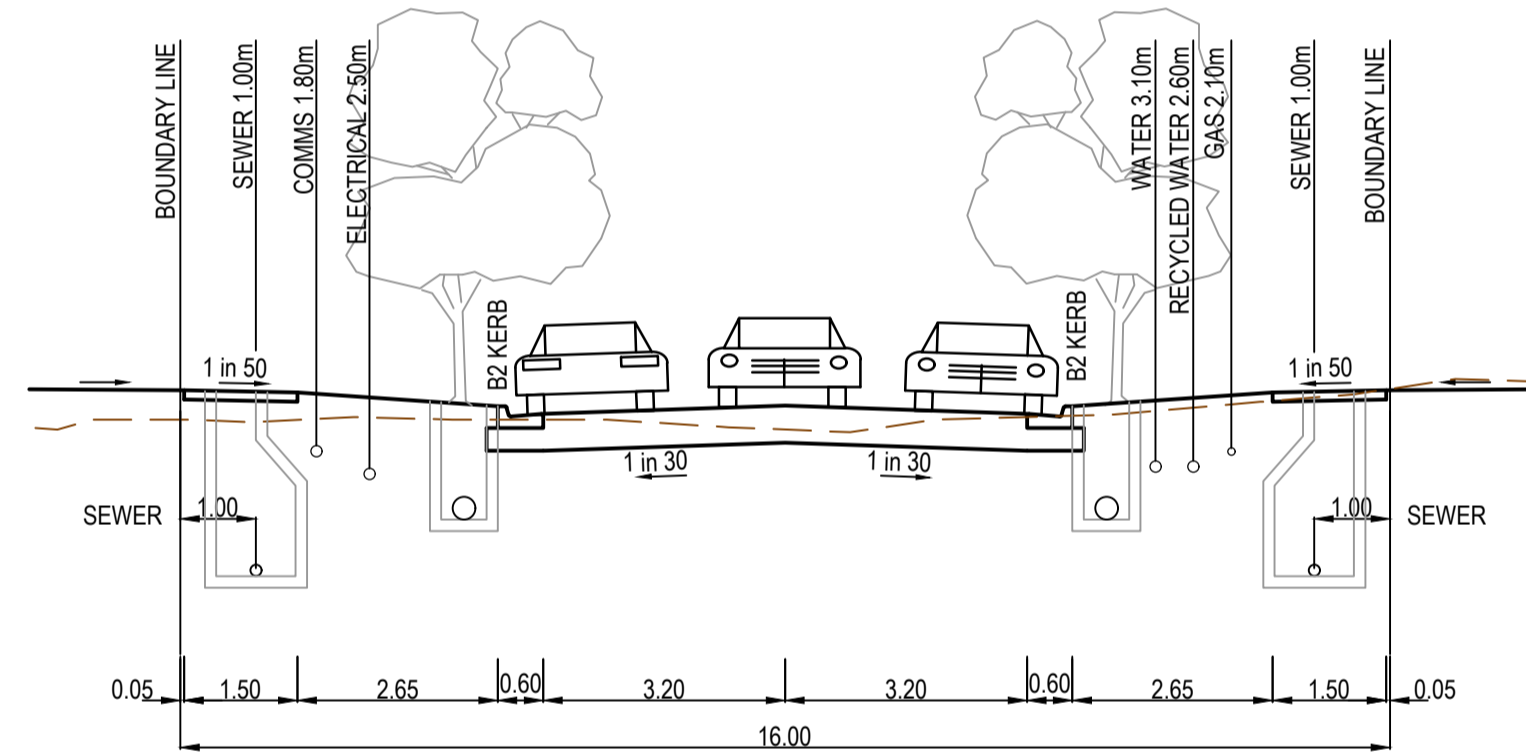
Locality Plan
N.T.S

Drawing Index

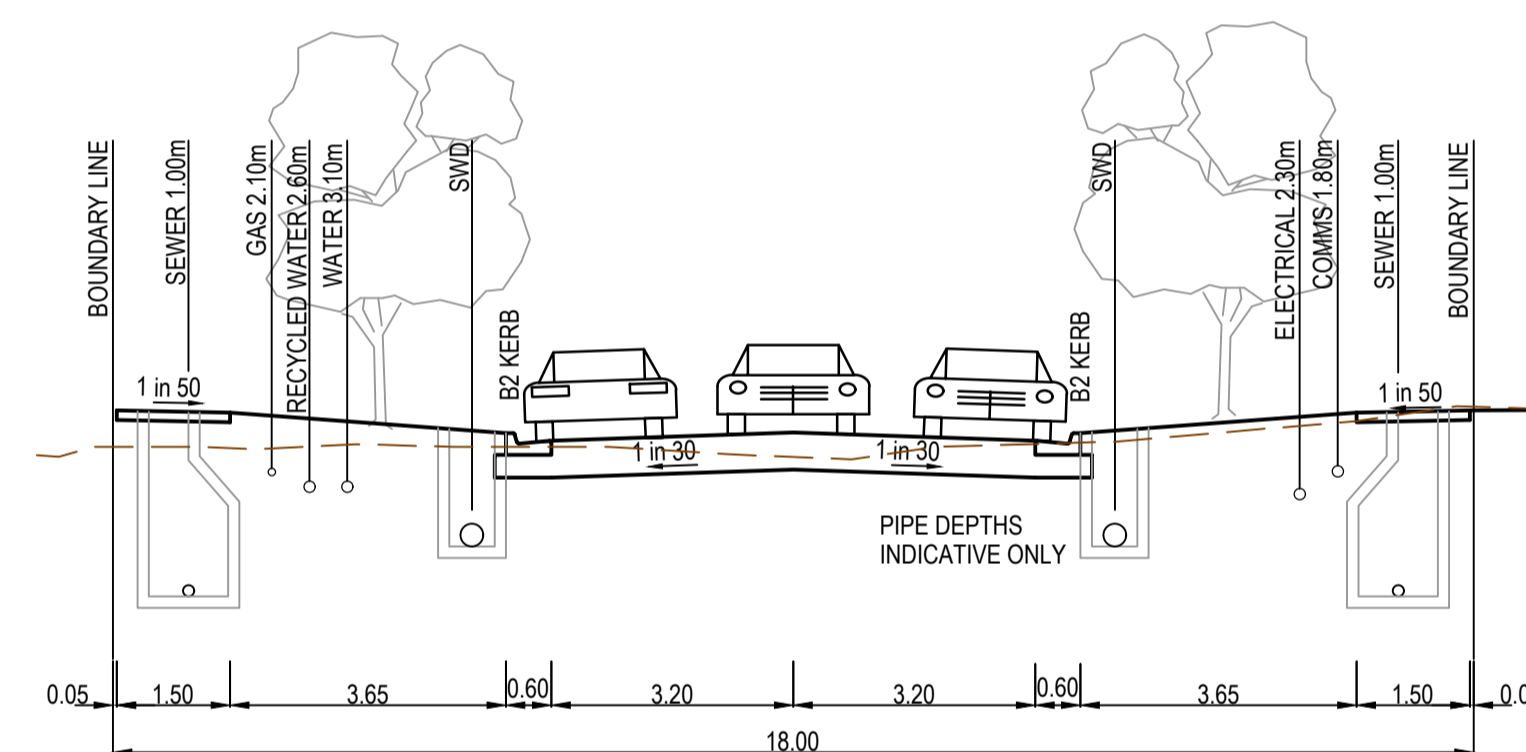
- 2070E-A05-01 Cover Plan
- 2070E-A05-02 Layout Plan
- 2070E-A05-03 Earthworks Plan
- 2070E-A05-04 Intersection Detail Plan - 1
- 2070E-A05-05 Intersection Detail Plan - 2
- 2070E-A05-06 Intersection Detail Plan - 3
- 2070E-A05-07 Intersection Detail Plan - 4
- 2070E-A05-08 Longitudinal Sections - 1
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- 2070E-A05-10 Cross Sections: Monferrato Avenue Ch 41.00 - Ch 172.80
- 2070E-A05-11 Cross Sections: Monferrato Avenue Ch 201.00 - Ch 224.00
- 2070E-A05-12 Cross Sections: Generosa Grove
- 2070E-A05-13 Cross Sections: Isola Mews
- 2070E-A05-14 Cross Sections: Mendocino Crescent
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- 2070E-A05-18 Drainage Longitudinal Sections - 4 & Pit Schedule
- 2070E-A05-19 Signage & Linemarking Plan
- 2070E-A05-20 Pavement Details
- 2070E-A05-85 Safety in Design

ROAD NAME	SERVICES OFFSET TABLE				
	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)	OFFSET (m)
MONFERRATO AVENUE	2.10 W	3.10 W	2.60 W	2.60 E	1.80 E
GENEROSA GROVE	2.10 S	3.10 S	2.60 S	2.50 N	1.80 N
MENDOCINO CRESCENT (Lot 530 - S19)	2.10 W	3.10 W	2.60 W	2.50 E	1.80 E
MENDOCINO CRESCENT (Lot 536)	2.10 S	3.10 S	2.60 S	0.90 N	0.40 N
ISOLA MEWS	2.10 N	3.10 N	2.60 N	2.40 S	1.80 S
SAYERS ROAD	2.30 N	3.40 N	2.80 N	15.80 S	0.35 S

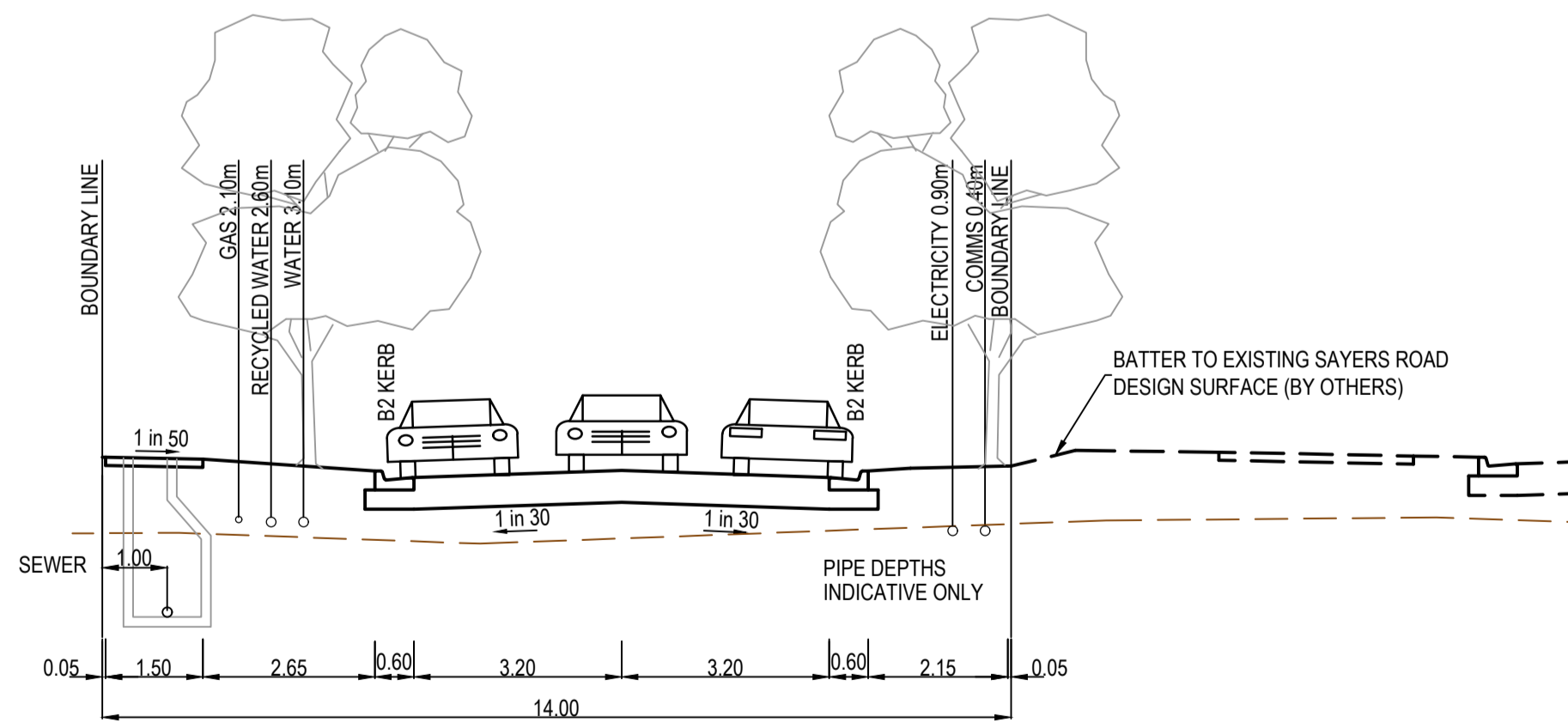
ROAD NAME	ROAD RESERVE WIDTH (m)	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTHWEST	STHEAST	NTHWEST	STHEAST
MONFERRATO AVENUE	18.00	6.40	7.30	7.60	B2	B2	5.20	5.20
GENEROSA GROVE	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
MENDOCINO CRESCENT (Lot 535, 561 - 564)	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20
MENDOCINO CRESCENT (Lot 530 - 534)	14.00	6.40	7.30	7.60	B2	B2	2.20	4.20
ISOLA MEWS	16.00	6.40	7.30	7.60	B2	B2	4.20	4.20



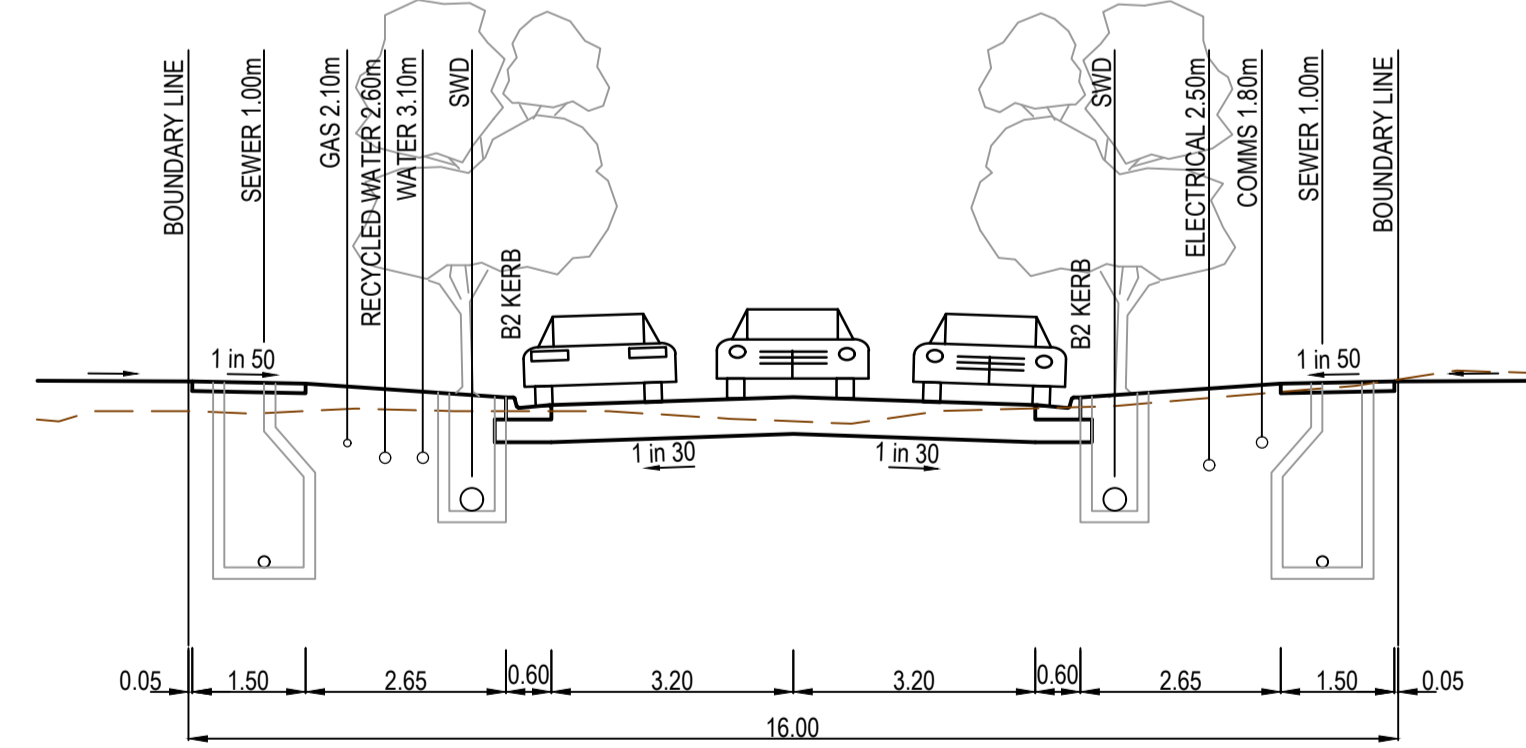
16.0m ROAD RESERVE
MENDOCINO CRESCENT & ISOLA MEWS



18.0m ROAD RESERVE
MONFERRATO AVENUE



14.0m ROAD RESERVE
MENDOCINO CRESCENT



16.0m ROAD RESERVE
GENAROSA GROVE

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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. 2070E-A05-85
ASSESS THE RISK - STAY SAFE

WARNING
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GENERAL NOTES (WYNDHAM CITY COUNCIL)

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDM ADDENDUM STANDARD DRAWINGS AND SPECIFICATIONS. WORKS TO BE CARRIED OUT TO THE SATISFACTION OF COUNCIL'S SUPERVISING OFFICER.
- THE CONTRACTOR IS RESPONSIBLE FOR SAFETY OF WORK ON SITE IN ACCORDANCE WITH APPROPRIATE LEGISLATION. THE CONTRACTOR 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 THEIR INTENTION TO COMMENCE TRENCHING OPERATIONS WHERE TRENCHES ARE 1.5 METRES OR DEEPER.
 - ENSURE THAT THE MINE MANAGER OR THEIR 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 COURTHHEADS, 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.
- 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 E, G, H, R, T, W ABOVE CONDUIT LOCATIONS AS SPECIFIED. RESPECTIVE LETTERS TO BE INDICATED ABOVE RELEVANT CONDUITS AS PER STANDARD DRAWING EDM 303. CONDUITS TO BE PLACED MINIMUM OF 5m FROM BOUNDARIES WHERE POSSIBLE AND TO THE SATISFACTION OF THE SUPERINTENDENT IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- SUBSOIL DRAINS SHALL BE INSTALLED BEHIND OR BELOW ALL KERB AND CHANNEL AS PER STANDARD DRAWINGS EDM 202 (EXPANSIVE SUBGRADE).
- ALL LINEMARKING, SIGNING AND TRAFFIC CONTROL DEVICES TO BE IN ACCORDANCE WITH VICROADS REQUIREMENTS WITH LATERAL WORKS AND ARROWS BEING COLD APPLIED PLASTIC TROWELLED INTO PLACE (MATERIAL DEGAOUR OR PLASTELINE) AND LONGITUDINAL LINES BEING EXTRUDED THERMOPLASTIC MATERIAL (VICROADS SPECIFICATION SEE SECTION 7104722).
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM.
- 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.
- ALL EXCAVATED OR FILLED AREAS OUTSIDE THE ROAD RESERVES SHALL BE SURFACED WITH A 100mm MINIMUM TO 200mm MAXIMUM LAYER OF 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 TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3788 TO SHOW THAT LEVEL 1 COMPACTION STANDARDS HAVE BEEN ACHIEVED. TEST RESULTS AND LOCATION OF TESTS FOR EACH ALLOTMENT SHALL BE APPROVED BY THE CONTRACTOR AND FORWARDED TO COUNCIL.
- FILL MATERIAL USED UNDER PAVEMENTS AND FOOTPATHS MUST BE AN APPROVED MATERIAL TO THE STANDARD OF WYNDHAM CITY COUNCIL. ALL SUCH MATERIAL IS TO BE COMPACTED AS PER THE REQUIREMENTS OF THE SPECIFICATION APPROVED WITH THESE DRAWINGS PRIOR TO FORMWORK BEING PLACED. COMPACTION TESTS TO BE COMPLETED AND PROVIDED TO SUPERINTENDENT.
- FILL & CUT BATTERS ARE NOT TO EXCEED 1 IN 6 SLOPE, UNLESS SHOWN OTHERWISE.
- ALL ALLOTMENTS SHALL BE SMOOTHED, GRADED AND SHAPED TO AN EVEN SURFACE WITH A MINIMUM FALL OF 1 IN 150 TO THE DRAINAGE OUTLET SHOWN.
- ALL DRAINAGE PIPES ARE CLASS 2 RCP PIPES, RUBBER RING JOINTED UNLESS OTHERWISE SPECIFIED.
- DRAINAGE PITS SHALL BE CAST MONOLITHICALLY. CEMENT RENDER SHALL ONLY BE USED TO REPAIR DEFECTS.
- BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SD6-10.
- ALL SERVICES TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
- ALL HOUSE DRAIN CONNECTIONS TO BE INSTALLED AT 8m FROM THE SIDE BOUNDARY U.N.O.
- INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE.
- VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDM 501 TO 503. DRIVEWAYS TO BE LOCATED MIN 0.75m FROM BUILDING LINE UNLESS SPECIFIED OTHERWISE AND CLEAR OF DRAINAGE PITS, SEWER MAINTENANCE HOLES AND EXISTING TREES. DOUBLE DRIVEWAY WIDTH TO BE 7.0m AT FRONT OF PATH/BUILDING LINE.
- ADDITIONAL AND OVER-EXCAVATION SHALL BE BACKFILLED IN ACCORDANCE WITH THE PROVISIONS OF THE SPECIFICATION.
- FOOTPATH CROSSFALL TO BE 1:50
- ALL FOOTPATHS AND SHARED PEDESTRIAN/BICYCLE PATHS ARE TO BE CONSTRUCTED AS PER CITY OF WYNDHAM SPECIFICATIONS AND MPA STANDARD DRAWINGS EDM 401 TO 403.
- ALL EXOTIC (NON NATIVE) TREES AND SHRUBS, INCLUDING DEAD TREES, NOT SHOWN ON THE DRAWINGS BUT LOCATED WITHIN THE WORKS ARE TO BE REMOVED AND DISPOSED OFFSITE.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRP/M) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIREPLUG.
- THE CONTRACTOR IS TO ENSURE THAT THEIR CONSTRUCTION PROCEDURES AND STANDARDS CONTROL THE VOLUME AND LOCATION FOR COLLECTION OF SEDIMENT RUNOFF ACCORDING TO CURRENT EPA - ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
- UPON COMPLETION OF CONSTRUCTION THE WHOLE SITE SHALL BE CLEANED UP, GRADED AND ALL RUBBISH REMOVED. THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT.
- EXISTING PAVEMENT OR DRAINAGE WORKS DAMAGED DURING CONSTRUCTION OR THE MAINTENANCE PERIOD TO BE REINSTATED TO THE SATISFACTION OF THE COUNCIL ENGINEER.
- THE LOWER SUB-BASE MATERIAL SHALL BE N.D.C.R. FOR PAVEMENT MAKE UPS AS PER THE STANDARD DRAWINGS OF WYNDHAM CITY COUNCIL.
- TOTAL LENGTH OF ROADS CONSTRUCTED IS 678
- TOTAL LENGTH OF DRAINS CONSTRUCTED IS 1066
- ALL TGS1 TO BE INSTALLED IN ACCORDANCE WITH AS1428.

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 UNDERTAKEN BY OTHERS.
- NOTIFICATION MUST BE GIVEN TO THE GAS AUTHORITY TWO WEEKS PRIOR TO THE COMMENCEMENT OF EXCAVATION WORKS.

REINFORCED CONCRETE PIPE

- ALL STORMWATER DRAINAGE PIPES SHALL NOT BE SUBJECTED TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTOR'S ENGINEER. COMPUTATIONS ARE TO ACCORD WITH AS 3725-2007. LOADS ON BURIED PIPES, CONCRETE PIPES DAMAGED DUE TO CONSTRUCTION LOADS SHALL BE REPLACED & RELAID AT THE CONTRACTOR'S COST.

POINT	TBM SETOUT TABLE			
	EAST	NORTHING	ELEVATION	DESCRIPTION
C28SSPG	292126.5	5808965.32	46.29	STEEL STAR PICKET
C16SSPG	292216.8	5808955.93	46.05	STEEL STAR PICKET
C139SSPL	292185.42	5808767.25	44.66	STEEL STAR PICKET

AS CONSTRUCTED PLANS
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AS CONSTRUCTED

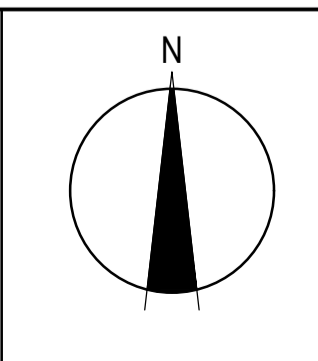
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OHS Management AS/NZS 4500
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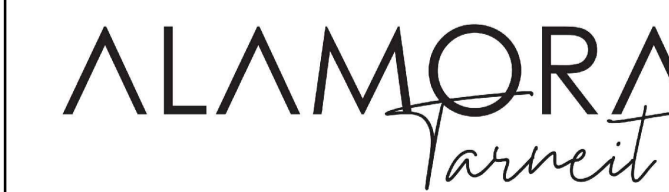
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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

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Scale 1:10
SCALE AS SHOWN AT A1

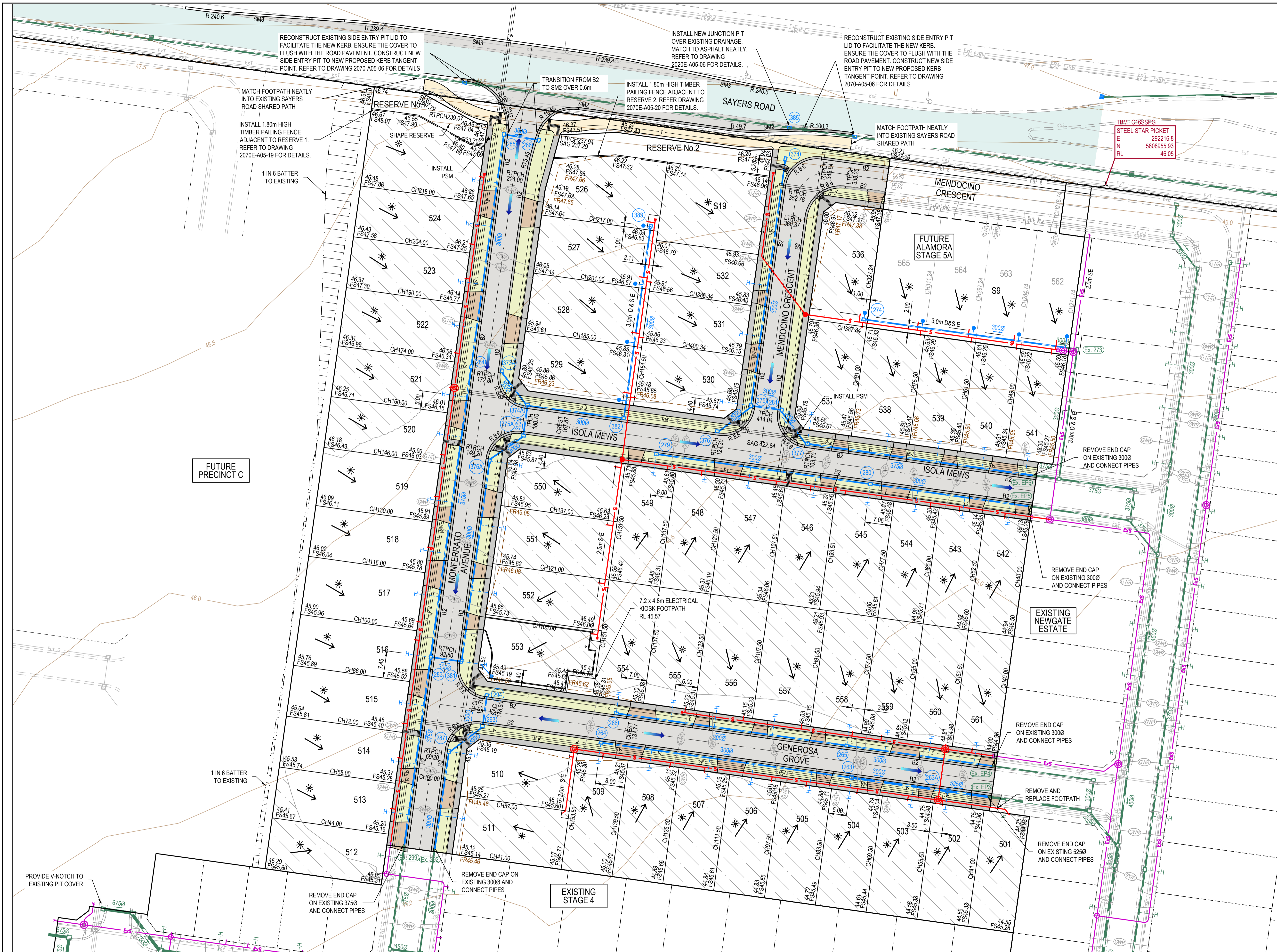


SMEC
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Alamora - Stage 5, Sayers Road, Tarneit
Wyndham City Council
Road and Drainage
Cover Plan

MELBOURNE REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A05-01	01 of 21	2



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
	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 SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE SWALE DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
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	FUTURE ELECTRICITY OVERHEAD
	FUTURE GAS
	FUTURE TELSTRA
	FUTURE OPTIC FIBRE
	FUTURE WATER
	FUTURE RECYCLED WATER
	141.34 EXISTING SURFACE LEVEL
	FS140.35 FINISHED BUILDING LINE LEVEL
	FR157.40 FINISHED RIDGE LINE LEVEL
	CH270.00 CHAINAGE
	STRUCTURAL FILL > 200mm
	DIRECTION OF FALL
	OVERLAND FLOW
	GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
	EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH
	PROPOSED SHARED FOOTPATH
	PROPOSED ROAD PAVING
	EXISTING ROAD PAVING

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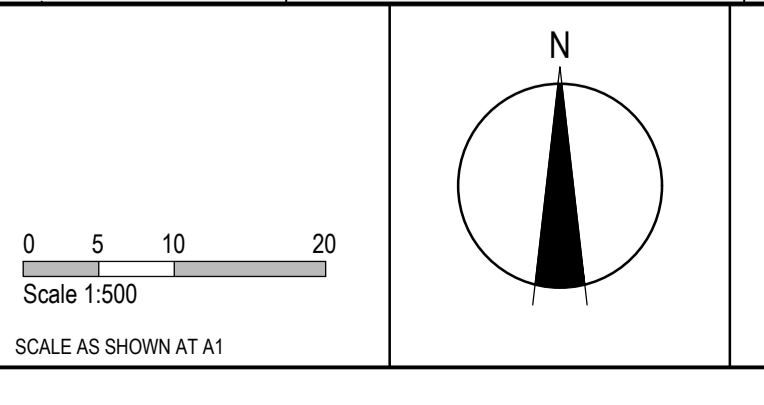
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OH&S Management AS/NZS 4500
Environmental Management ISO 14001

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

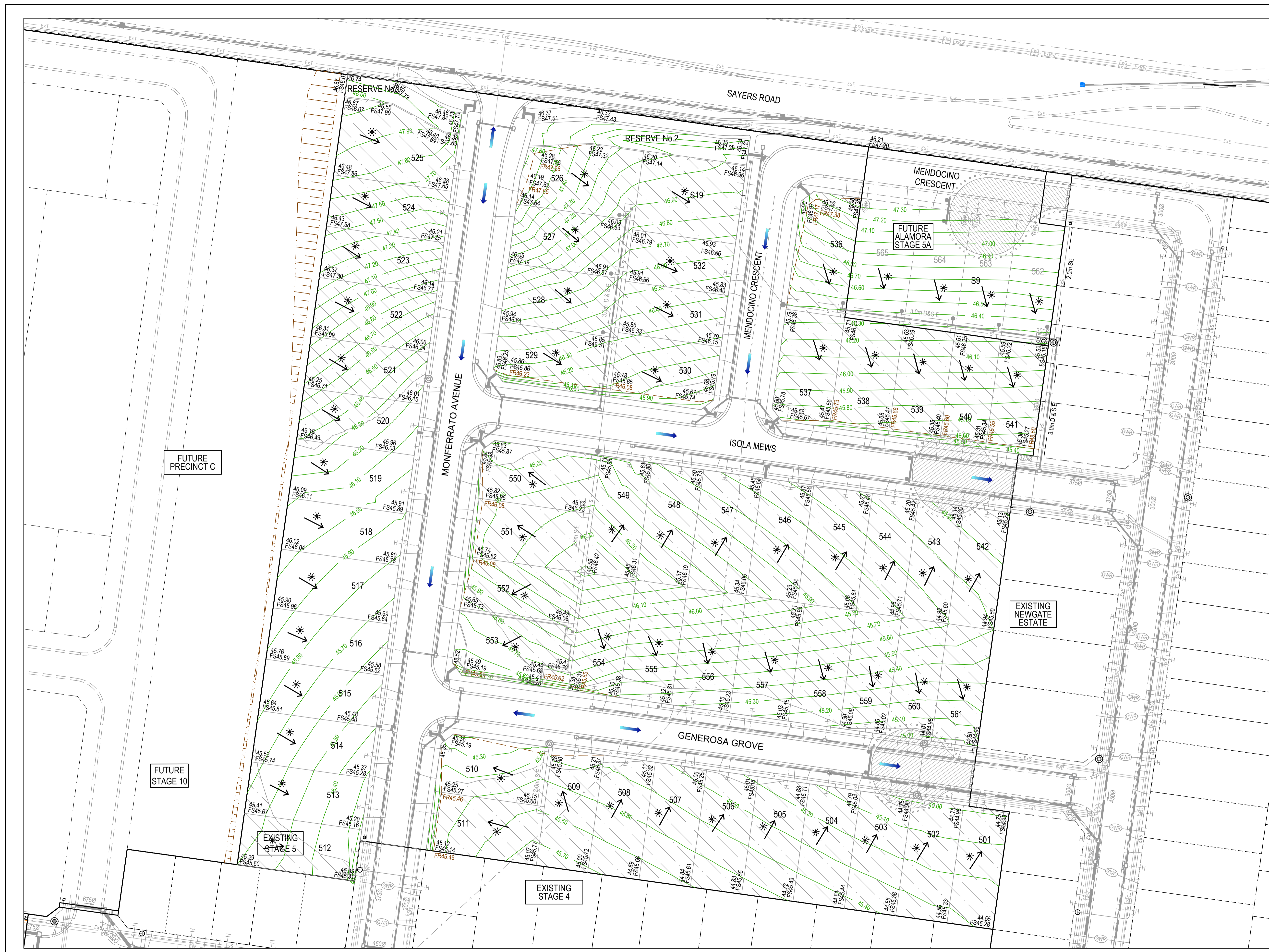


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ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Layout Plan

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A05-02	02 of 21	3



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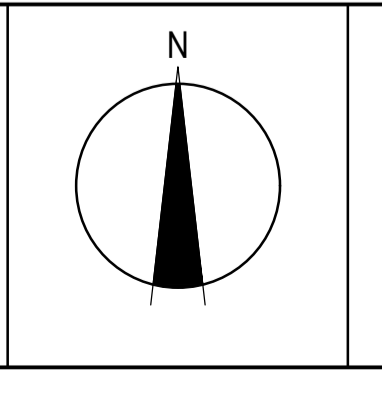
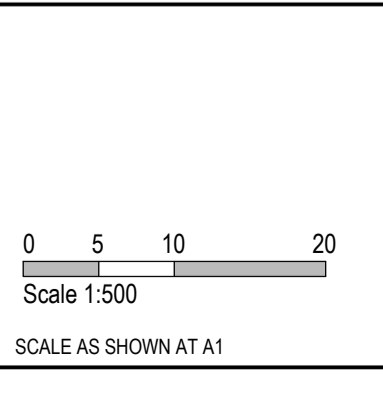
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TITLE	NAME
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DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
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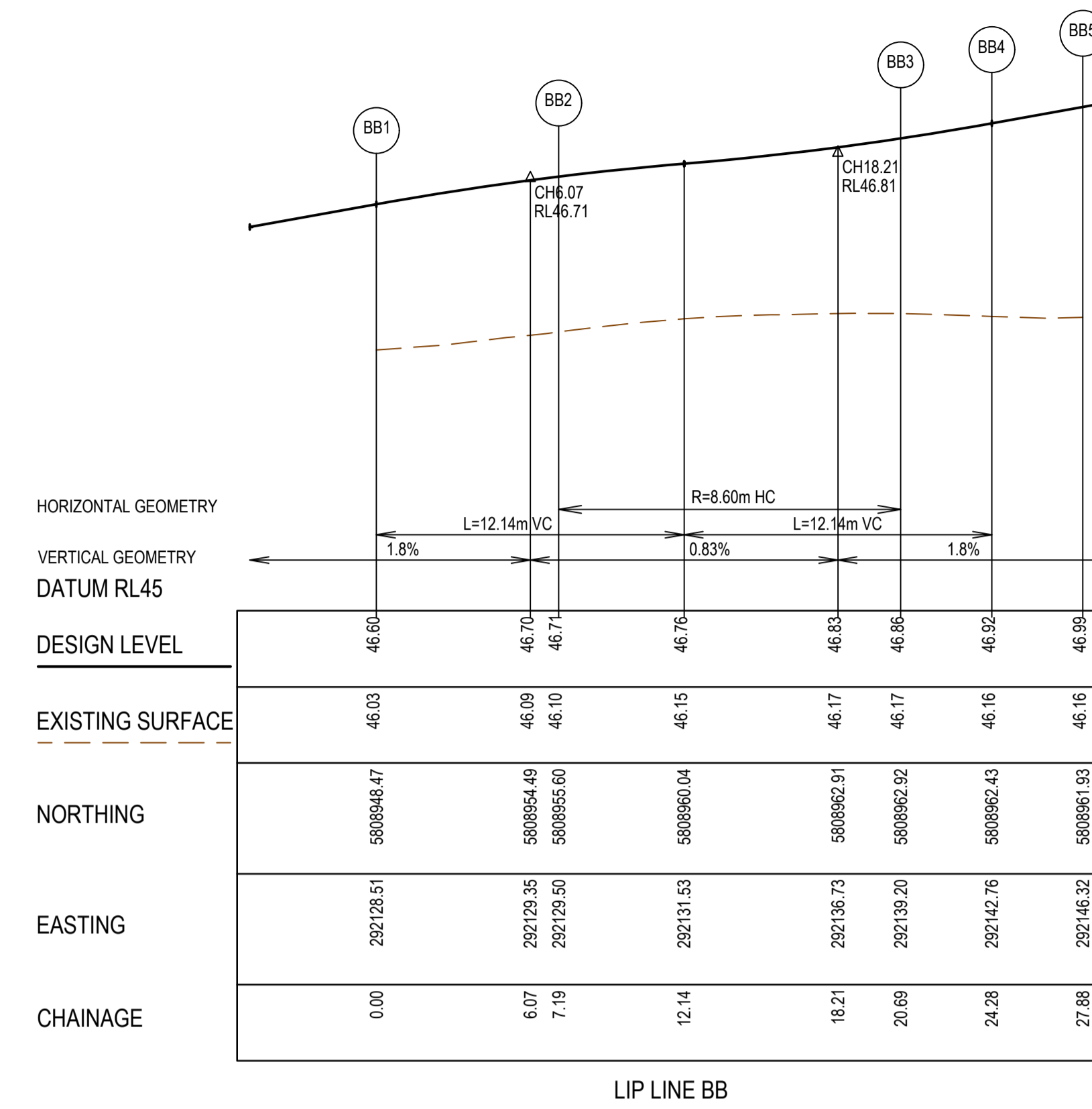
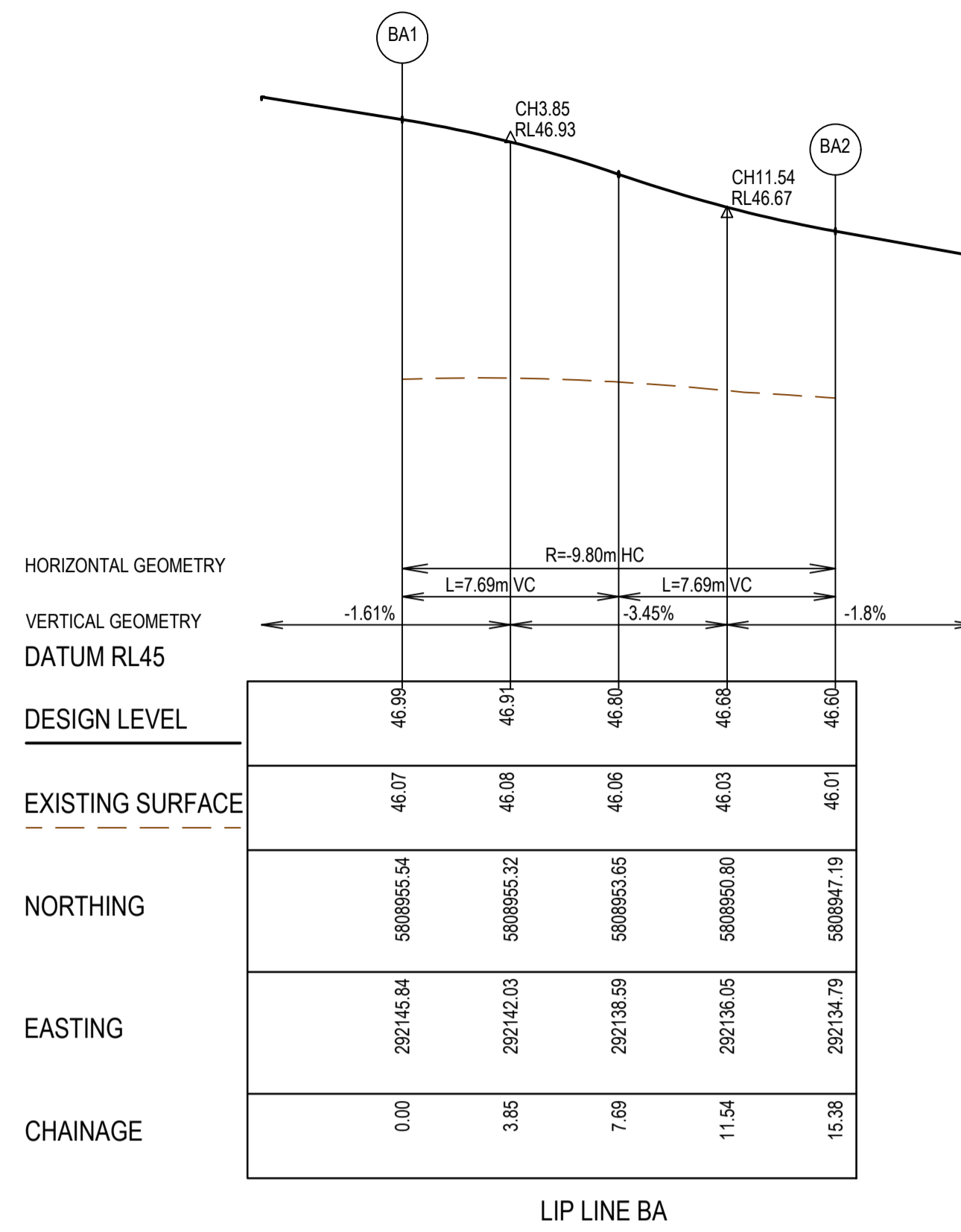
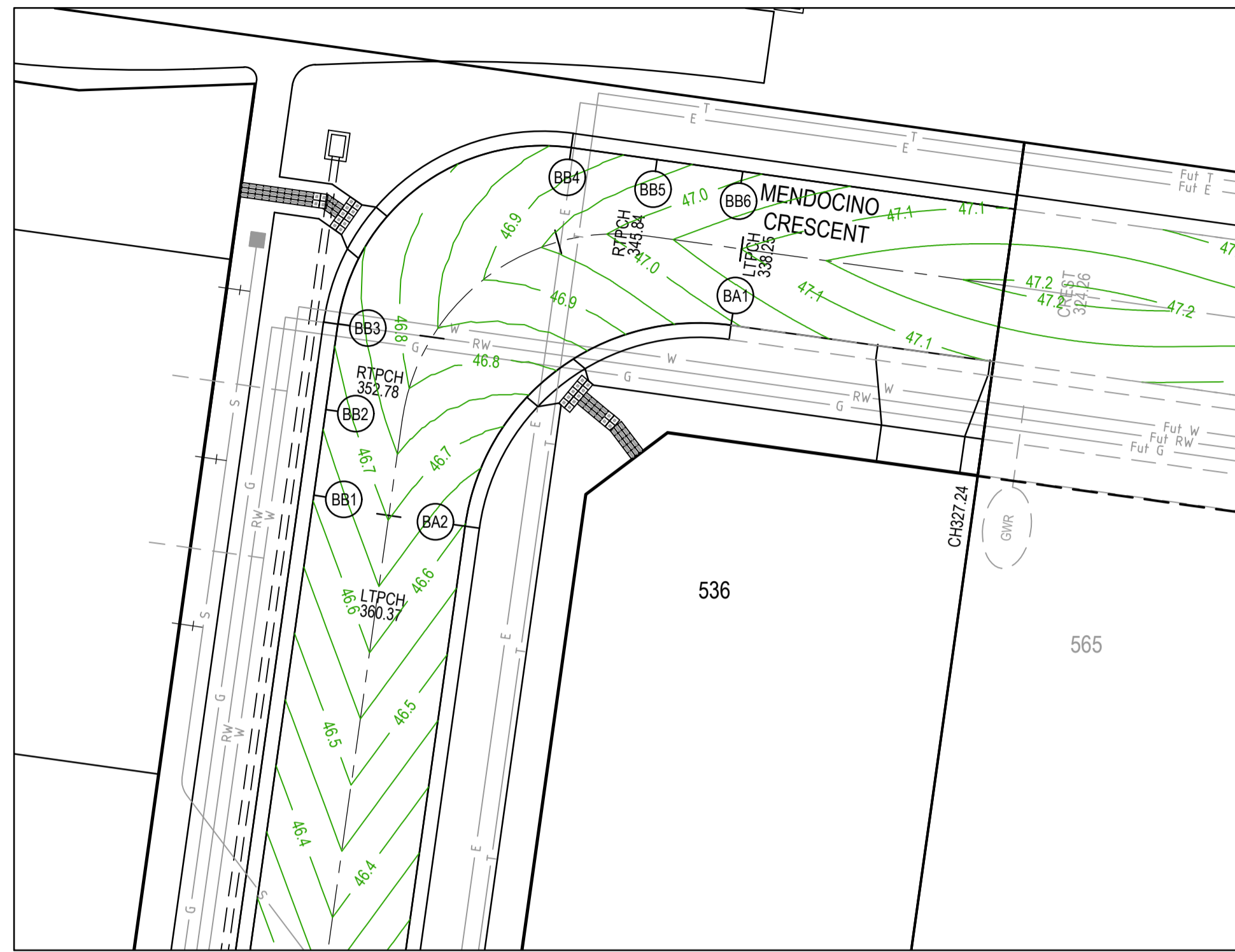


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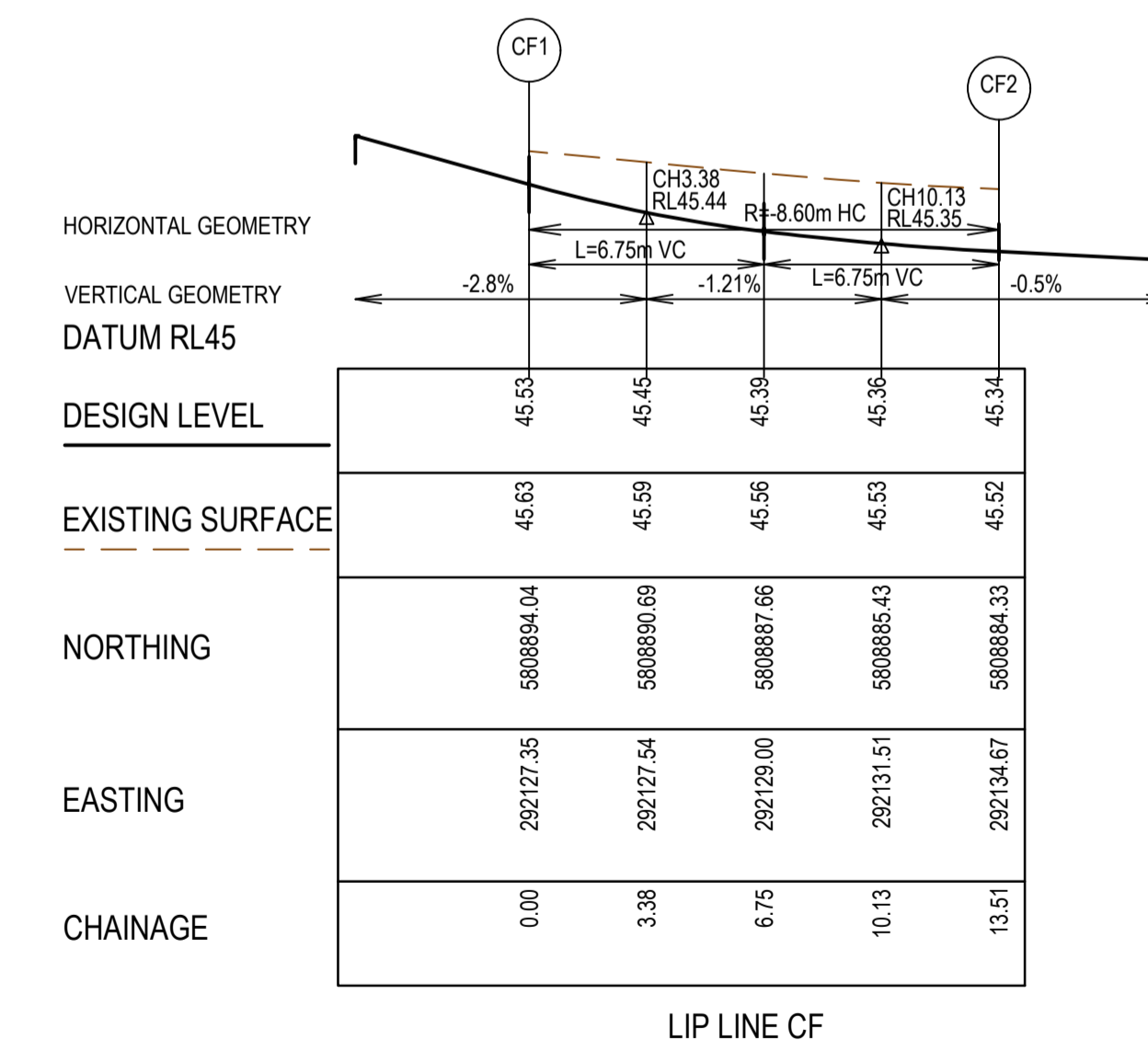
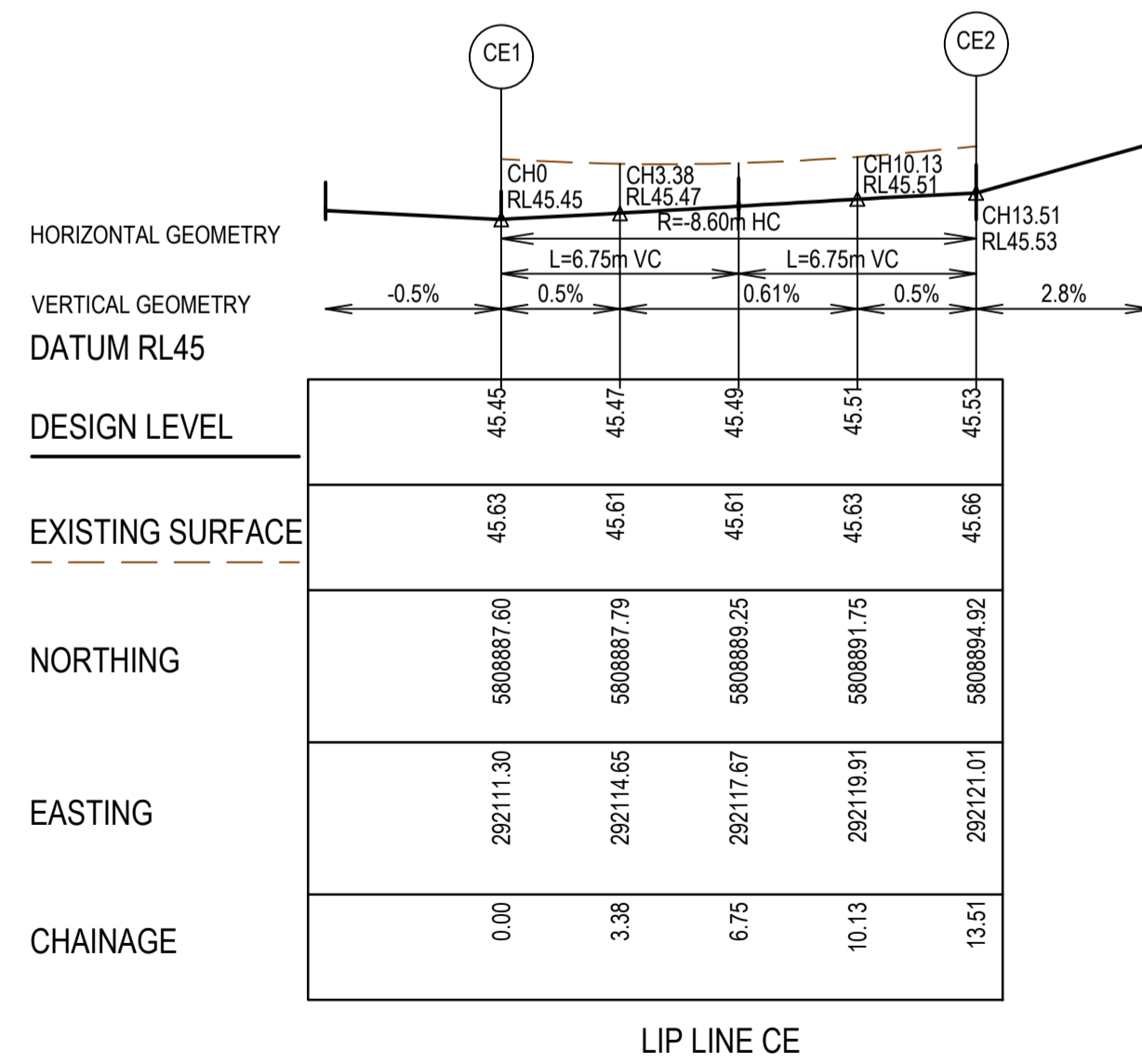
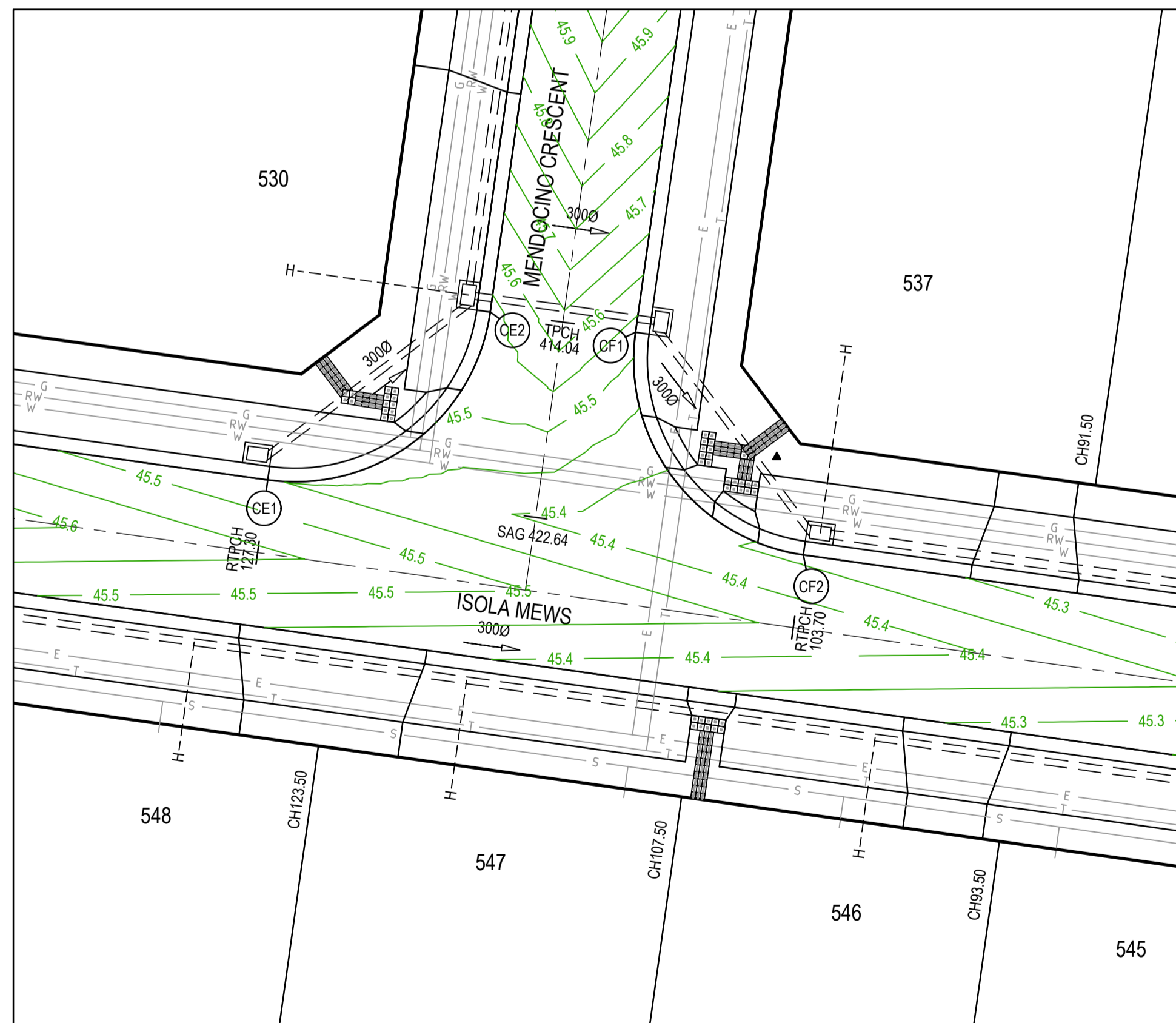
Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Earthworks Plan

MELBOURNE REF 234 D4	PROJECT / DRAWING No. 2070E-A05-03	SHEET No. 03 of 21	REVISION 1
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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
- EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH



AS CONSTRUCTED PLANS
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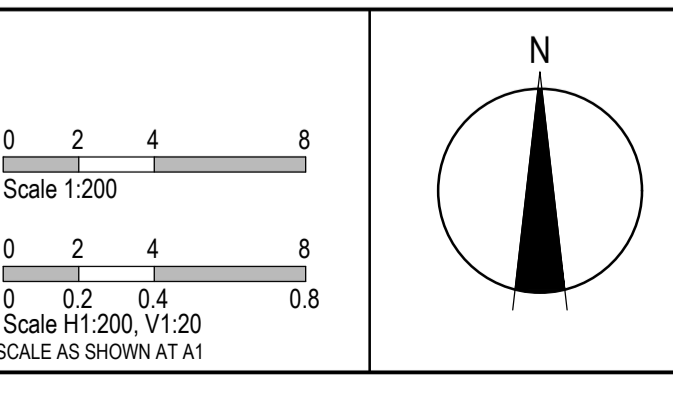
AS CONSTRUCTED

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Quality Management ISO 9001
Site Management AS/NZS 1801
Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

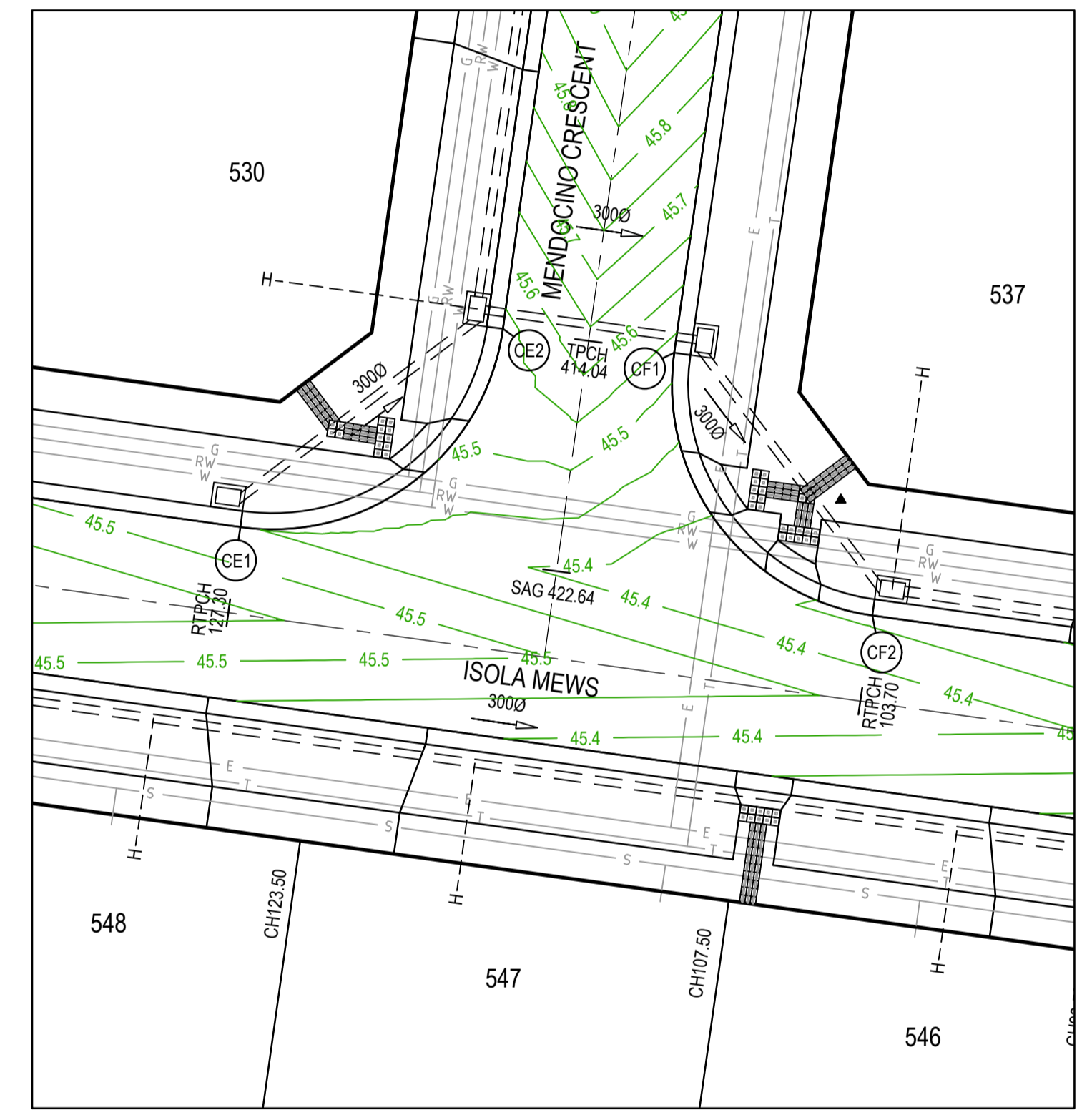
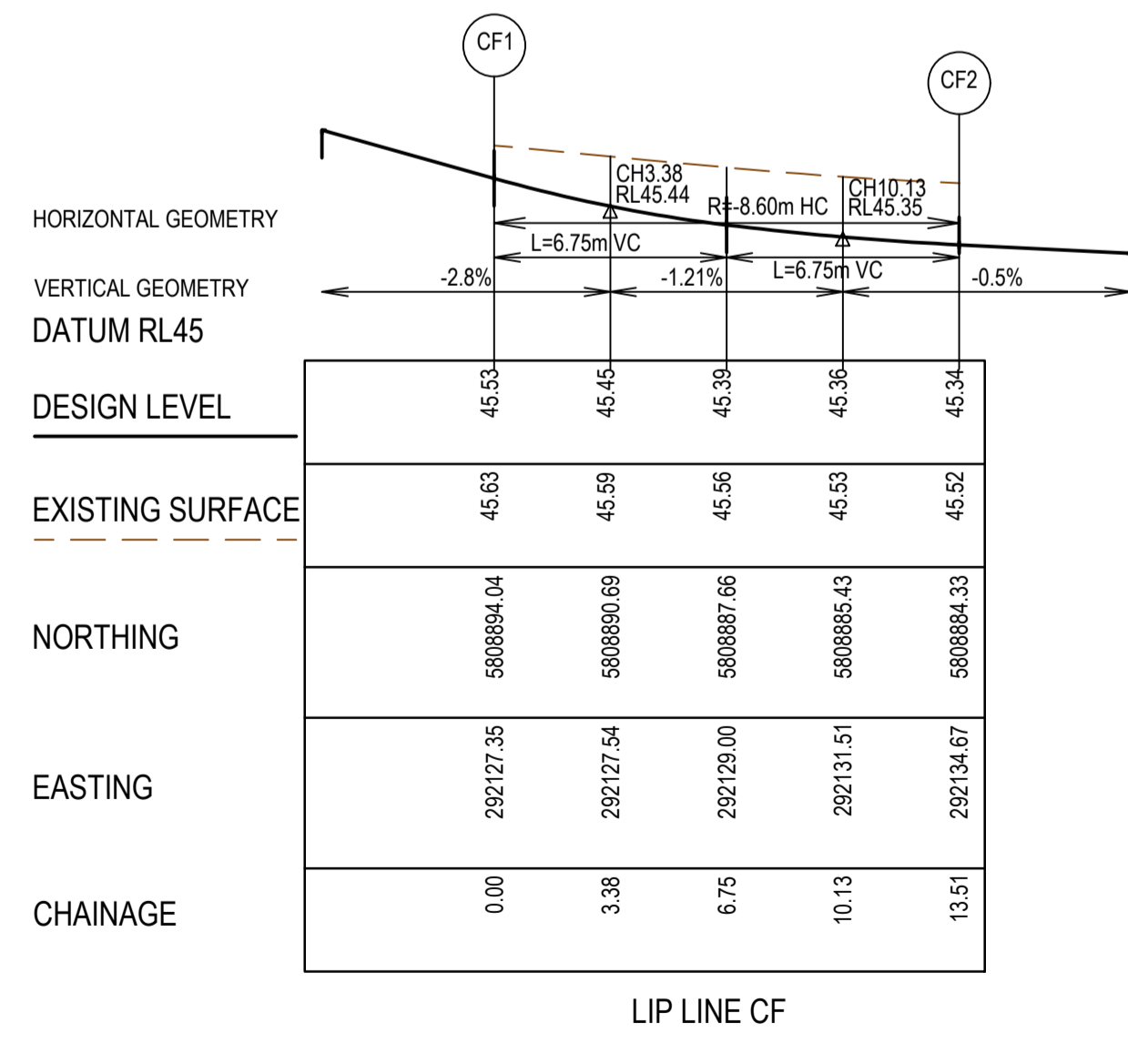
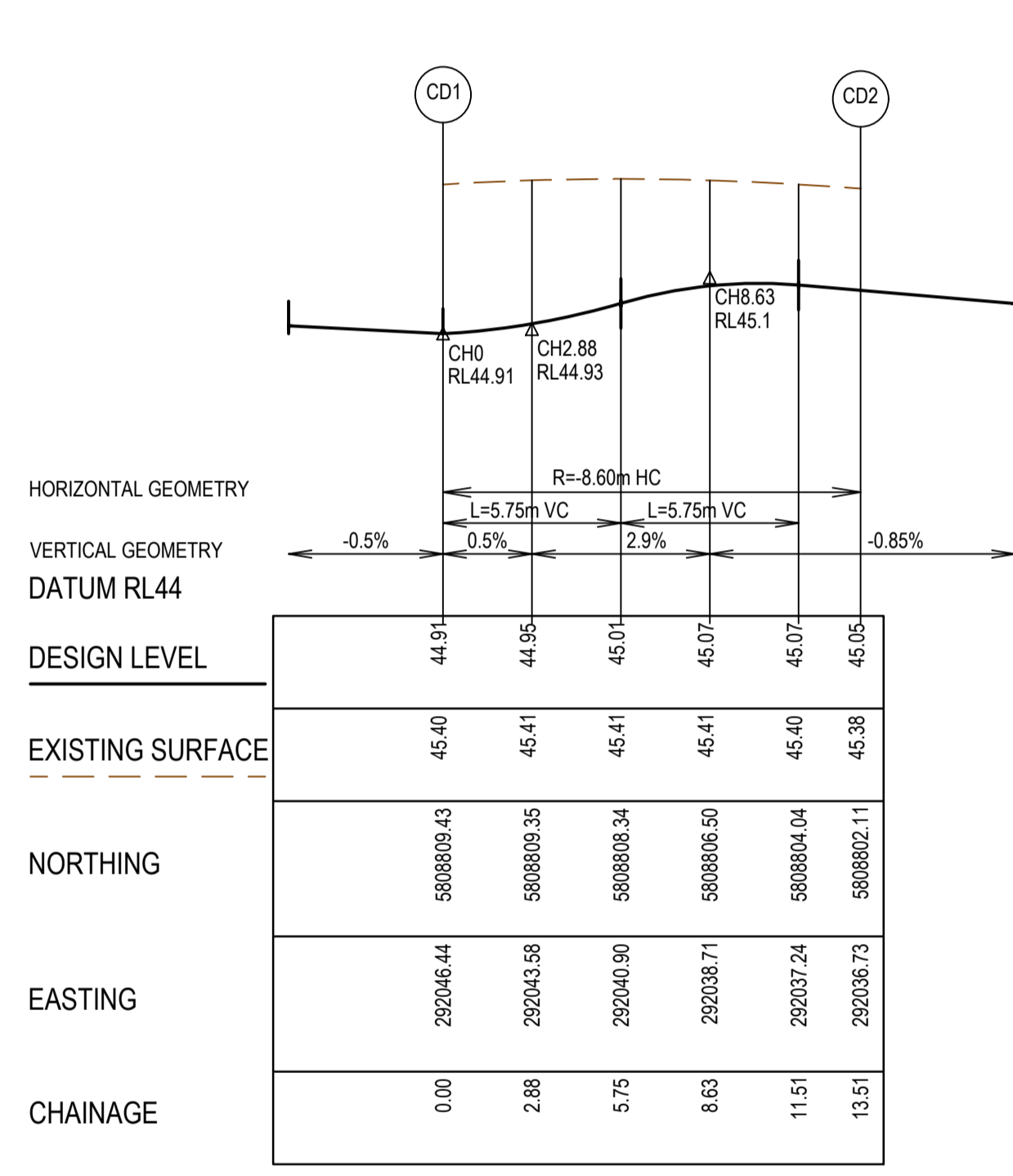
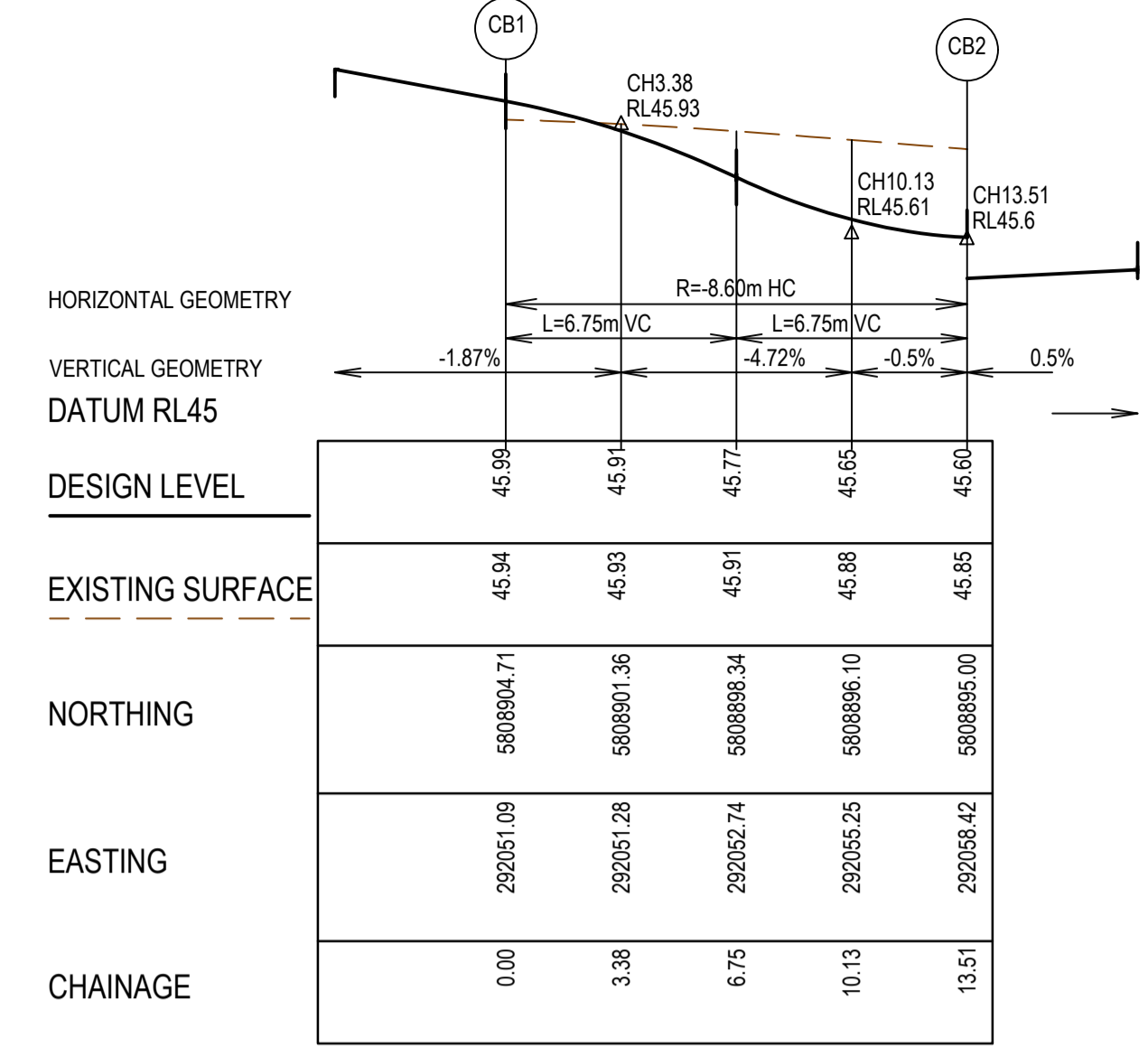
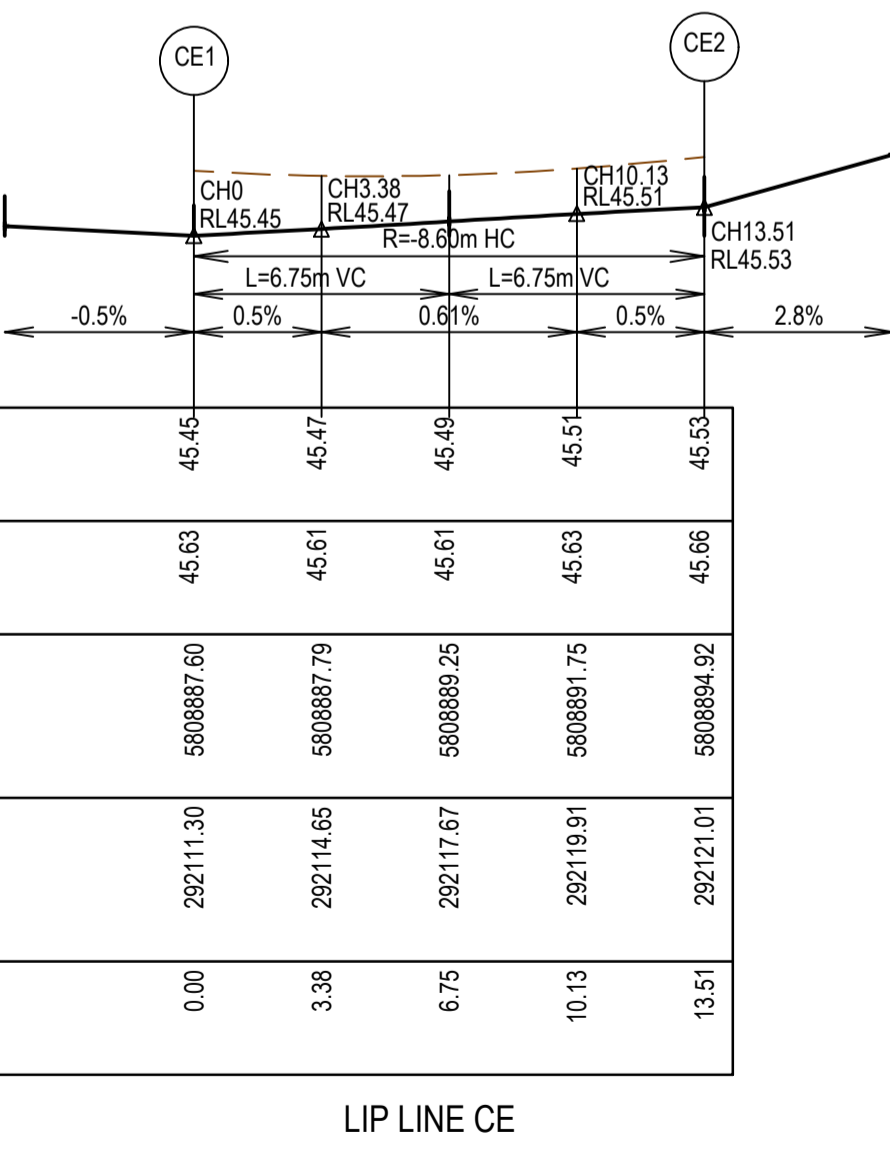
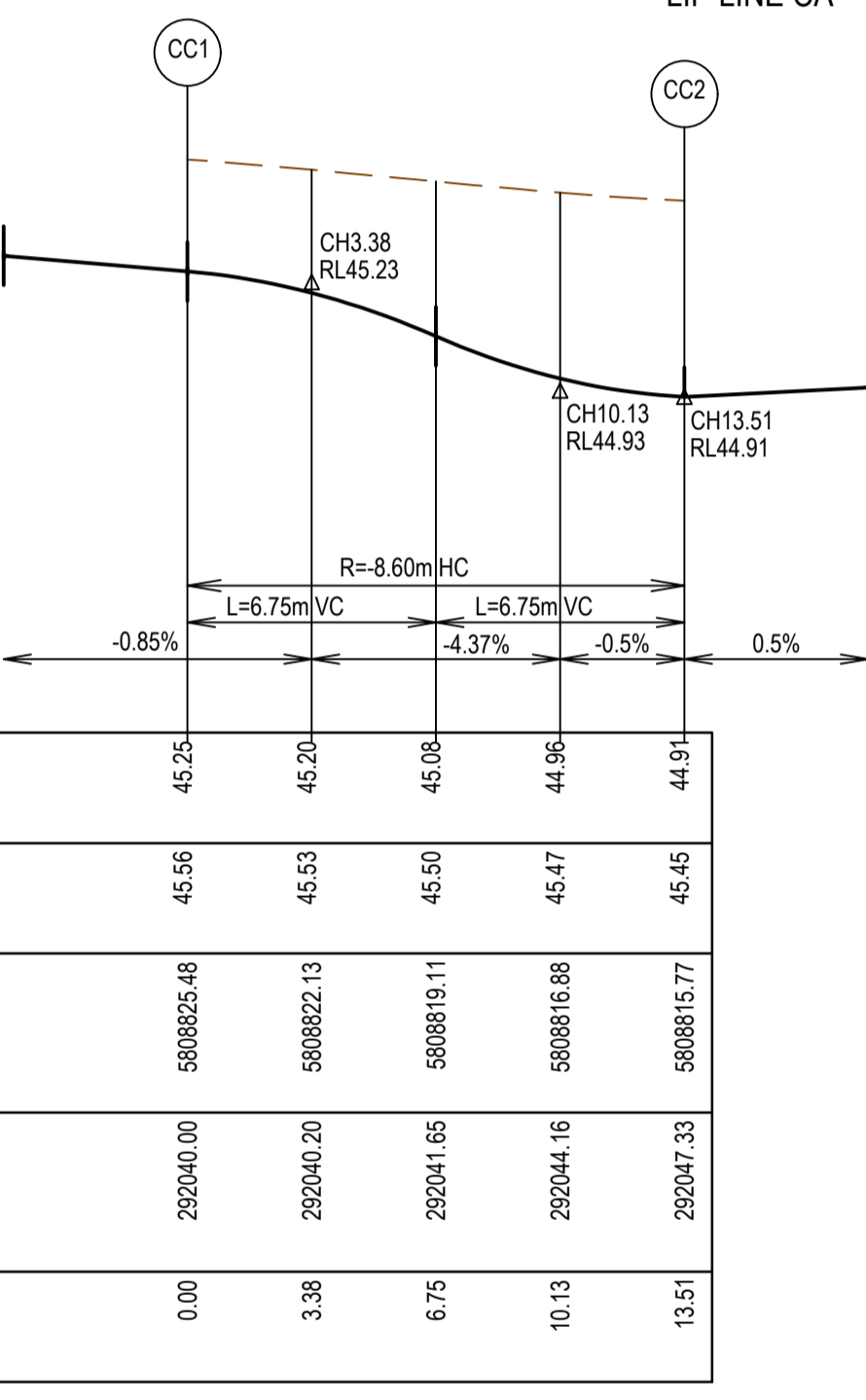
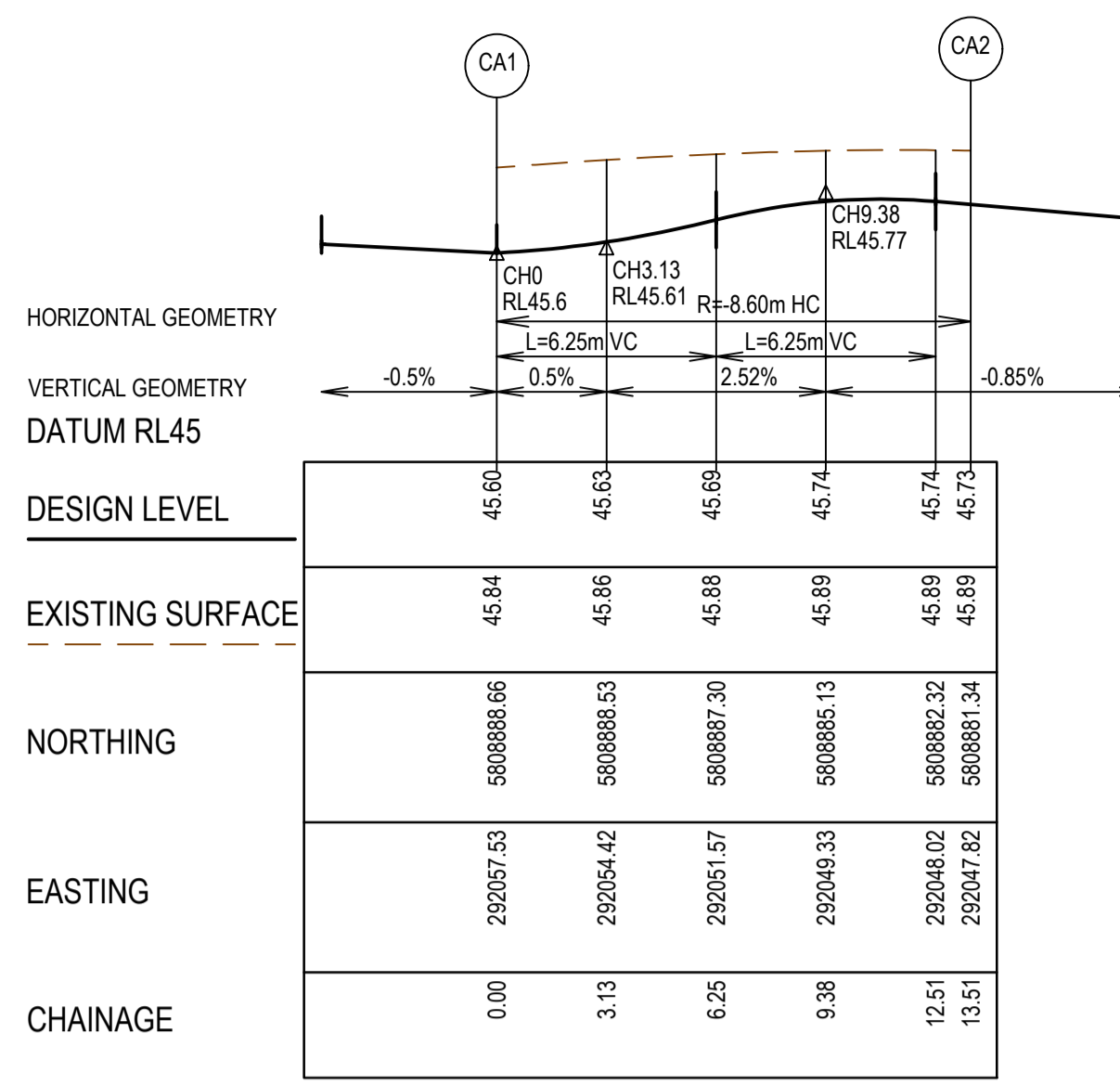
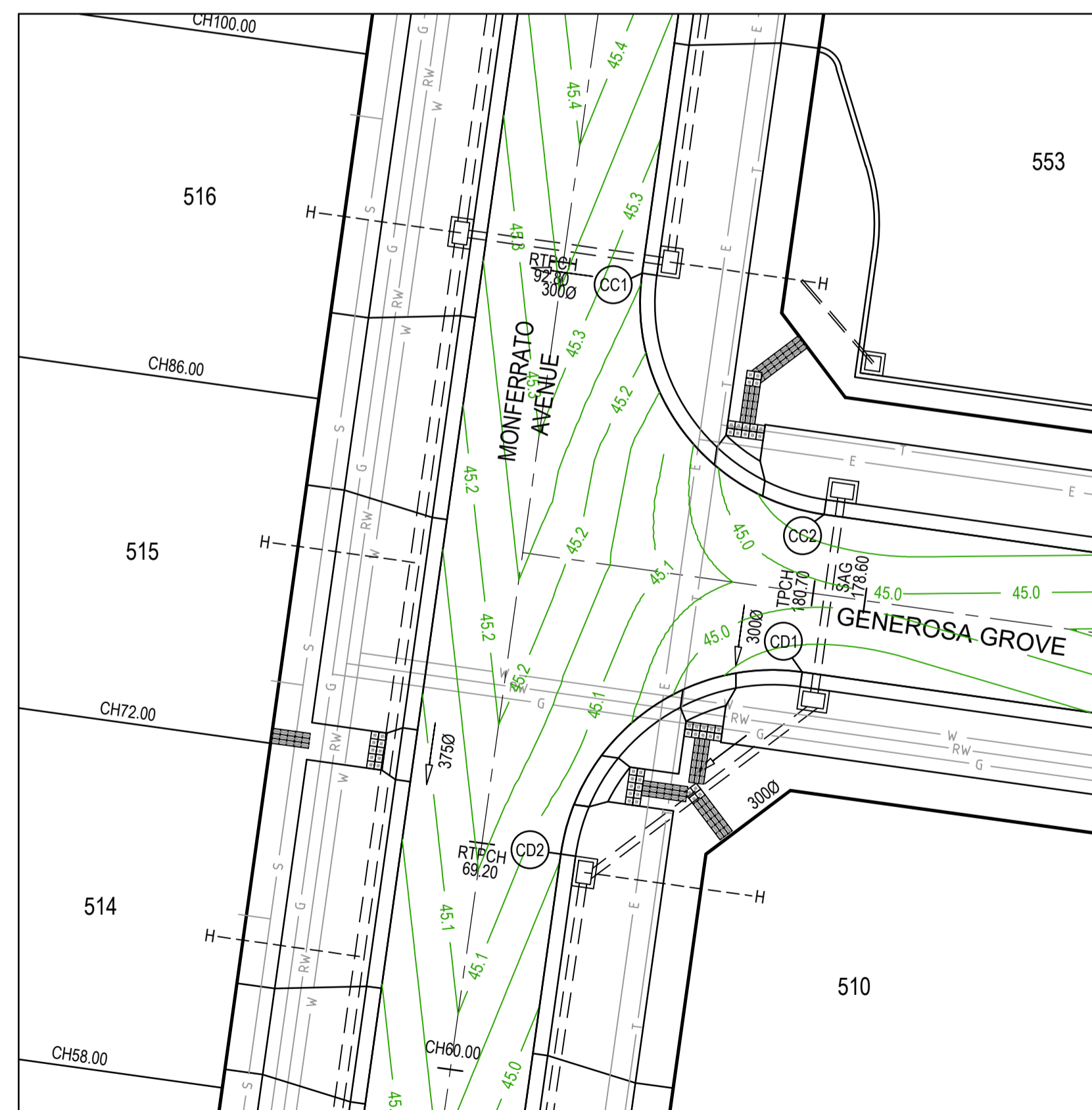
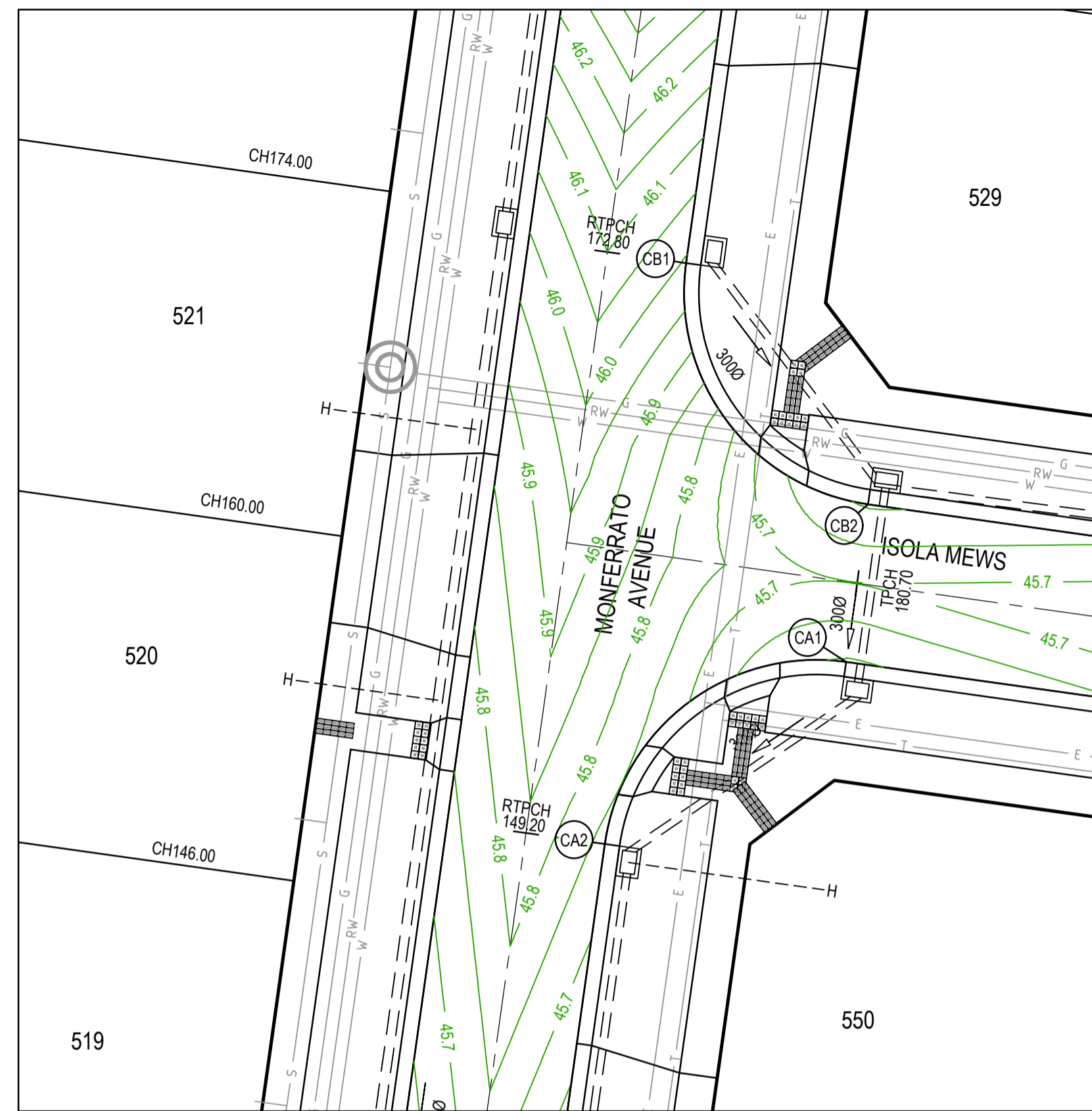


SMEC
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Melbourne, Vic, 3008, Australia
Ph: 03 5561 3758

ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 1

MELBOURNE REF 234 D4	PROJECT / DRAWING No. 2070E-A05-04	SHEET No. 04 of 21	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
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- EXISTING STORMWATER DRAIN
- EXISTING MAIN DRAIN
- EXISTING SEWER & MAINTENANCE STRUCTURES
- EXISTING SERVICE CONDUITS
- EXISTING TACTILE PAVERS
- FUTURE STORMWATER DRAIN
- FUTURE MAIN DRAIN
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- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH

AS CONSTRUCTED PLANS

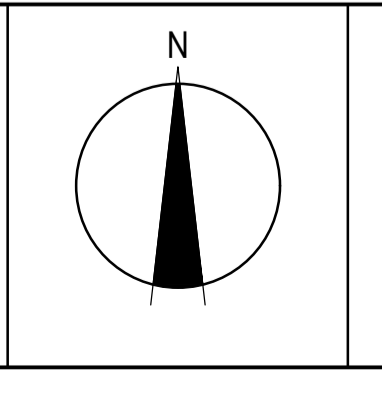
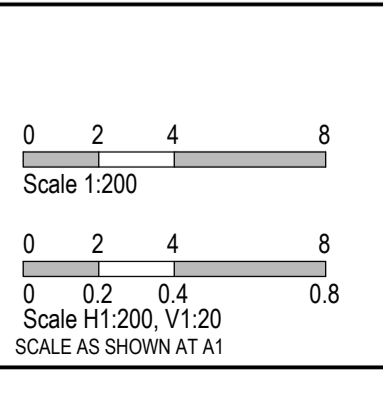
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 OHS Management AS/NZS 1801
 Environmental Management ISO 14001

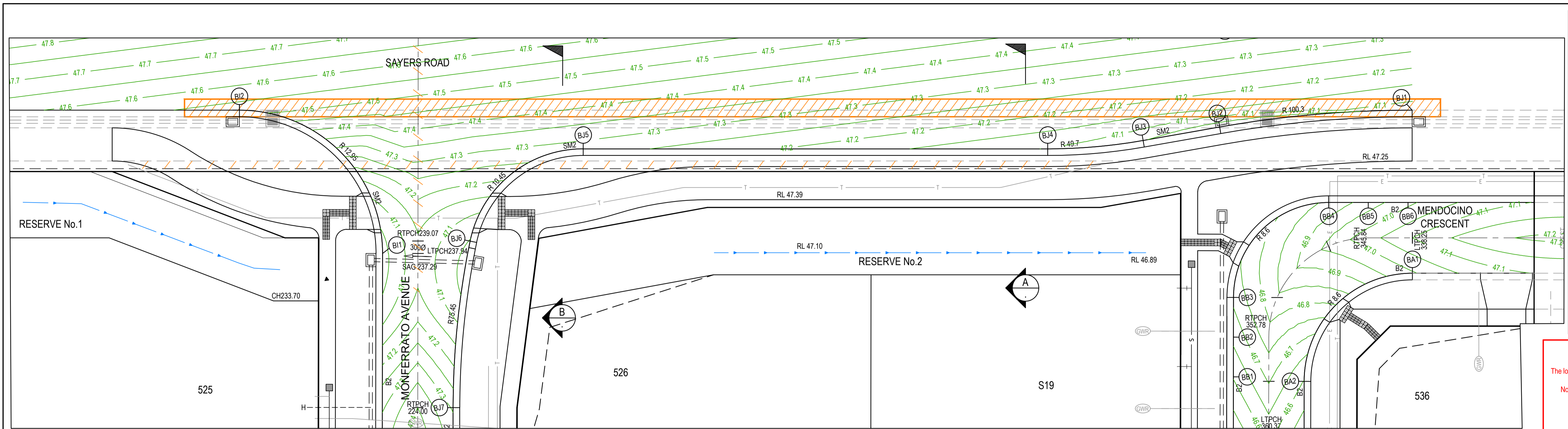
TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	N.Fang
CHECKED	L.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



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ALAMORA
Tarnait

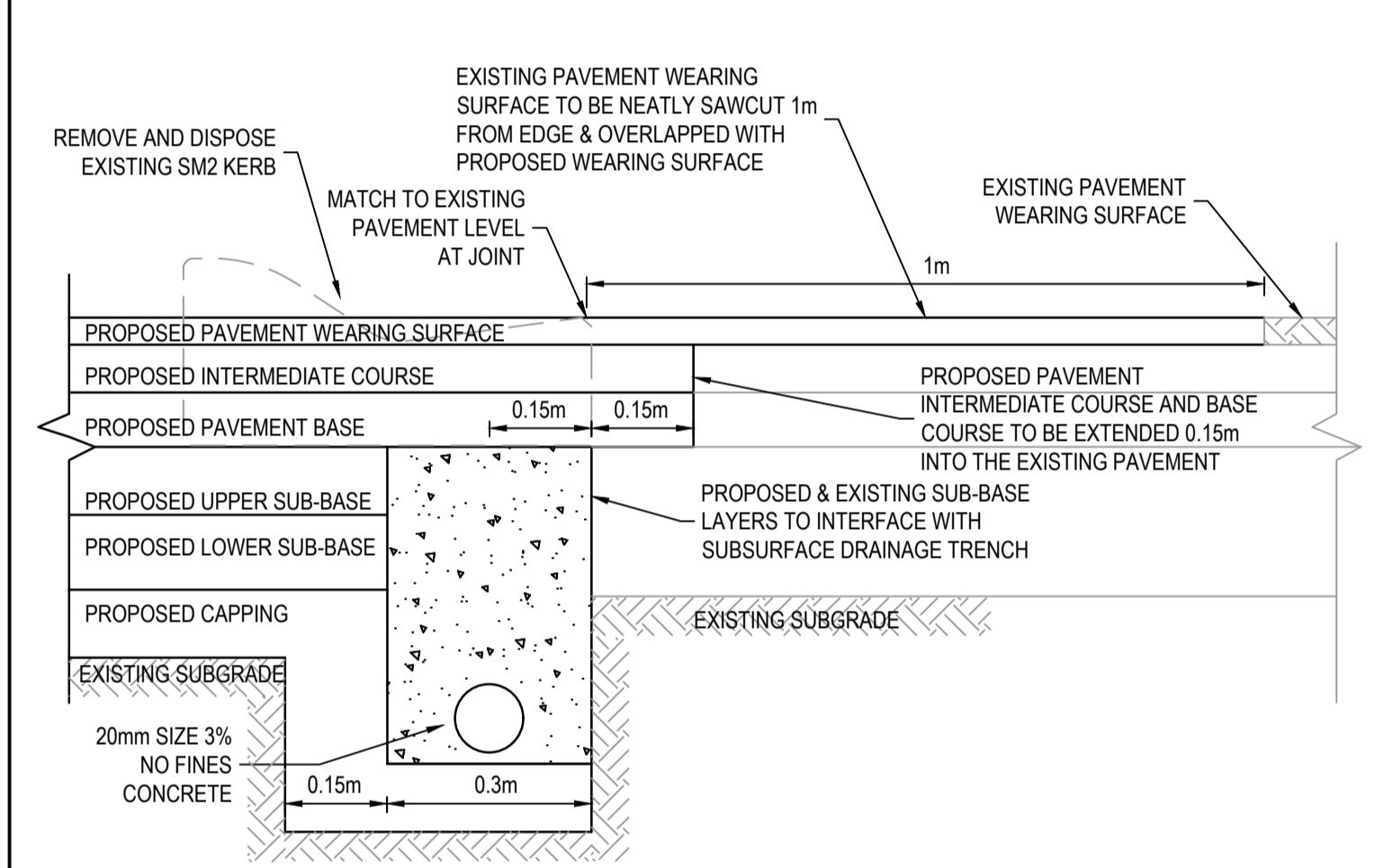
Alamora - Stage 5, Sayers Road, Tarnait		Wynham City Council	
Road and Drainage		Intersection Detail Plan - 2	
MELBOURNE REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A05-05	05 of 21	0



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

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

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



SECTION A
H1:100, V1:100

DATUM RL42.4	47.01	46.95	47.38	47.37	47.31	47.20	47.10	47.22	47.29	47.50
DESIGN SURFACE	46.19	46.22	46.83	46.94	47.40	47.38	47.30	47.22	47.29	47.50
EXISTING SURFACE	46.19	46.22	46.83	46.94	47.40	47.38	47.30	47.22	47.29	47.50
CHAINAGE	3.20	5.20	9.30	10.00	13.00	14.00	14.60	18.10	20.00	26.50

SECTION B
H1:100, V1:100

DATUM RL42.4	47.01	46.95	47.38	47.37	47.31	47.20	47.10	47.22	47.29	47.50
DESIGN SURFACE	47.49	47.49	47.55	47.53	47.47	47.39	47.28	47.39	47.40	47.69
EXISTING SURFACE	46.28	46.31	46.86	46.78	47.29	47.56	47.55	47.40	47.40	47.68
CHAINAGE	3.33	5.37	9.54	10.25	13.32	16.30	16.90	20.40	20.40	28.80

LIP LINE BI

HORIZONTAL GEOMETRY	R=12.95m HC				
VERTICAL GEOMETRY	-3.33%	0.27%	4.49%	0.43%	
DATUM RL46	47.03	47.10	47.27	47.45	47.52
DESIGN LEVEL	47.03	47.10	47.27	47.45	47.52
EXISTING SURFACE	46.39	46.44	46.49	46.50	46.60
NORTHING	5008970.11	5008975.16	5008979.71	5008983.07	5008984.73
EASTING	292053.78	292053.49	292051.29	292047.51	292042.74
CHAINAGE	0.00	5.09	10.18	15.27	20.36

LIP LINE BJ

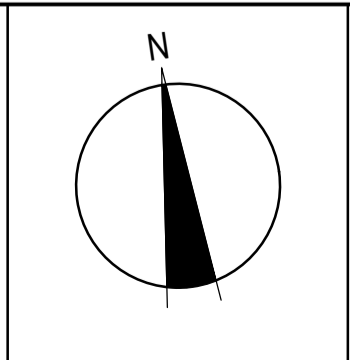
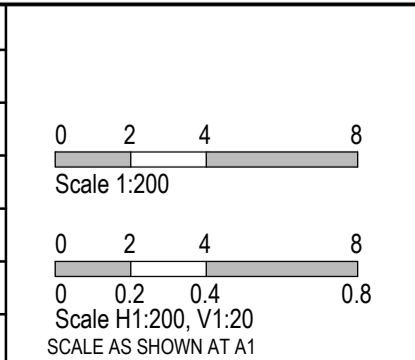
HORIZONTAL GEOMETRY	R=100.30m HC									
VERTICAL GEOMETRY	0.43%	-0.5%	0.67%	0.42%	0.43%	-3.14%	2.5%	1.71%		
DATUM RL45	47.07	47.02	47.01	47.03	47.05	47.07	47.10	47.11	47.27	47.28
DESIGN LEVEL	47.07	47.02	47.01	47.03	47.05	47.07	47.10	47.11	47.27	47.28
EXISTING SURFACE	46.18	46.12	46.05	46.07	46.13	46.17	46.18	46.18	46.43	46.43
NORTHING	5008970.16	5008971.04	5008971.09	5008971.04	5008970.89	5008970.78	5008970.76	5008971.66	5008976.86	5008976.99
EASTING	292147.84	292137.88	292132.13	292130.38	292126.39	292123.35	292120.64	292111.50	292073.51	292073.07
CHAINAGE	0.00	10.00	15.75	17.51	21.50	24.54	27.25	33.00	75.00	75.24

AS CONSTRUCTED PLANS
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AS CONSTRUCTED

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OH&S Management AS/NZS 3801	Global-Mark.com.au®
Environmental Management ISO 14001	Global-Mark.com.au®

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	N.Fang
CHECKED	L.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

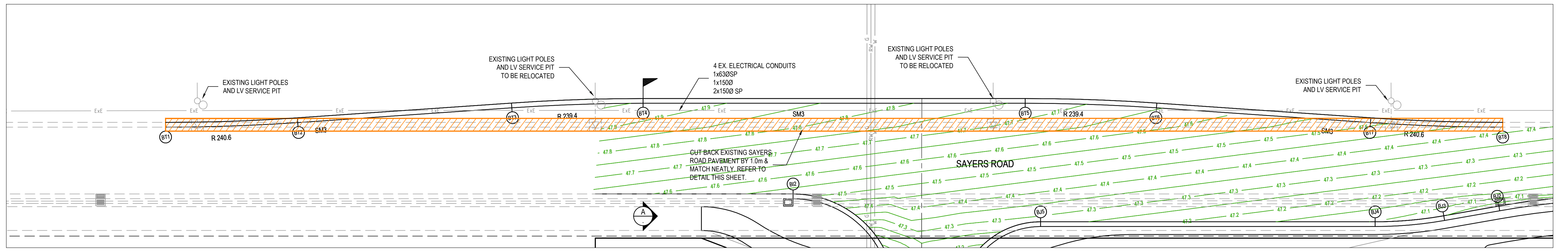


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ALAMORA
Tarnait

MELBOURNE REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A05-06	06 of 21	0

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 3

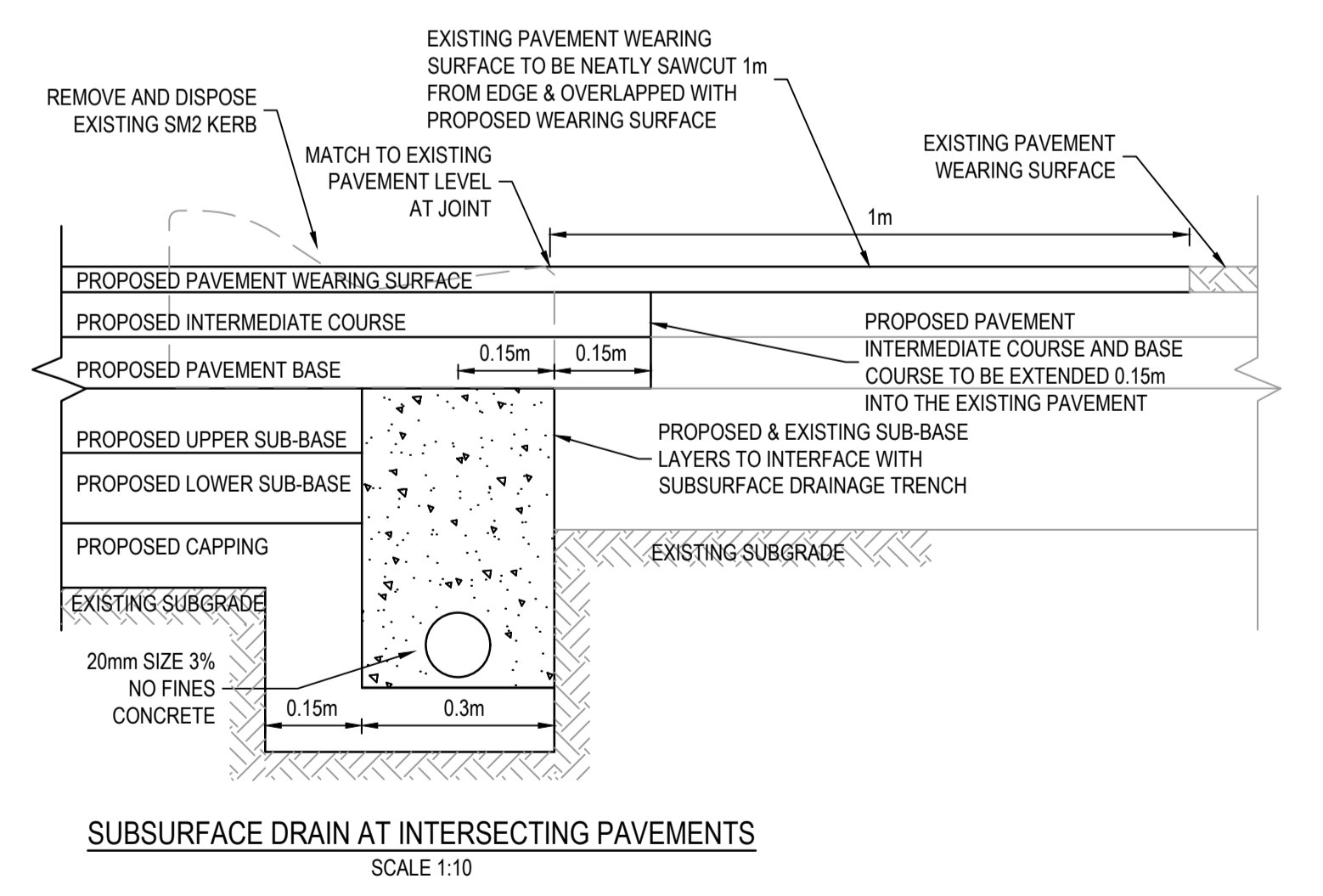
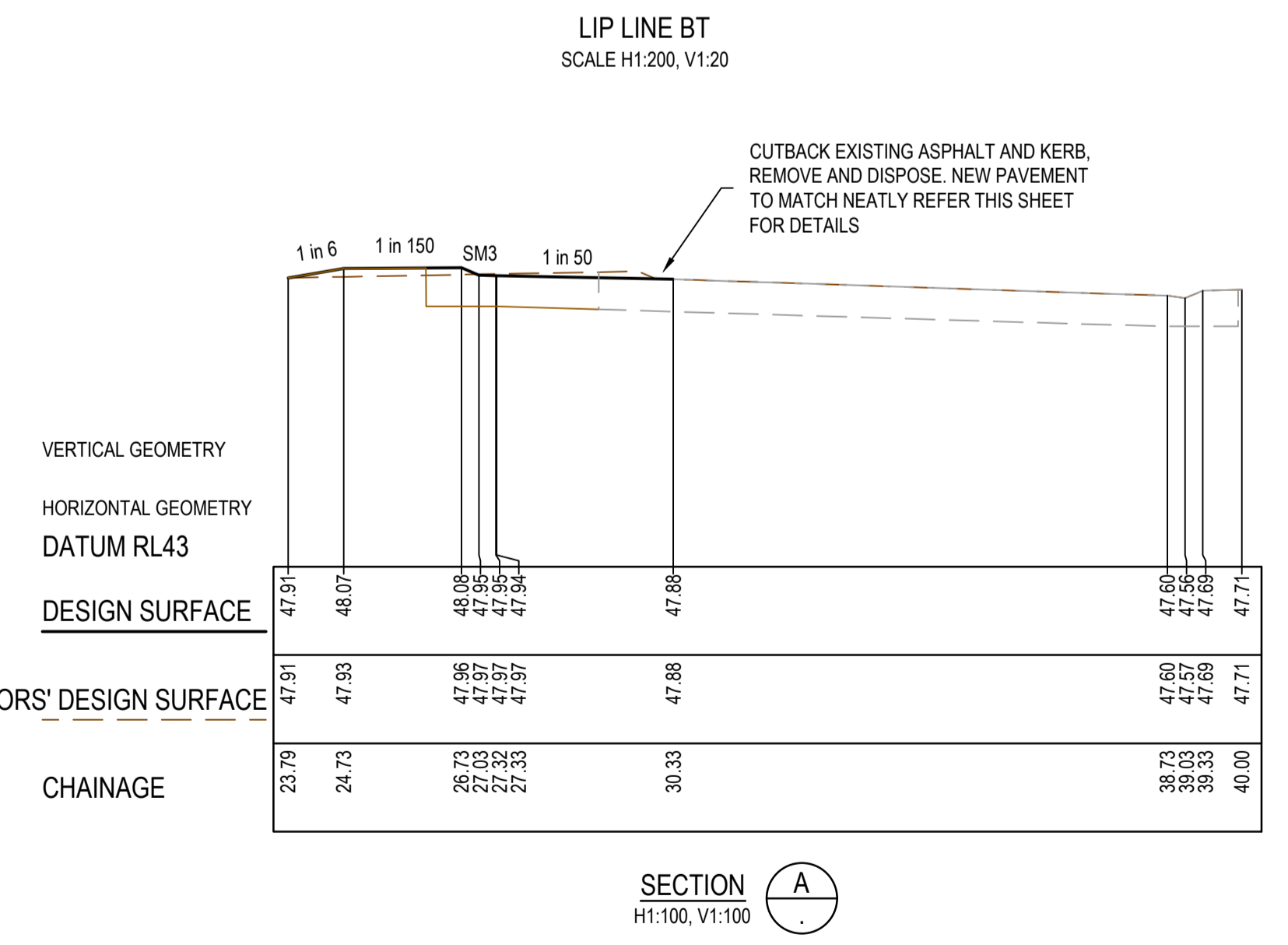


LAYOUT PLAN SCALE H1:200, V1:20

BT1	BT2	BT3	BT4	BT5	BT6
CH0 RL48.14			CH60.09 RL47.94	CH108.09 RL47.74	
HORIZONTAL GEOMETRY: R=240.60m HC, R=239.39m HC, R=239.40m HC					
VERTICAL GEOMETRY: -0.43%, -0.32%, -0.43%, -0.52%					
DATUM RL46.2					
DESIGN LEVEL	48.14	48.12	48.11	48.09	48.09
EXISTING SURFACE	47.31	47.26	47.20	47.13	47.10
NORTHING	5808903.88	5809003.25	5809002.71	5809002.28	5809002.17
EASTING	291965.80	291970.76	291975.74	291980.72	291982.33
CHAINAGE	0.00	5.00	10.00	15.00	16.62

LIP LINE BT SCALE H1:200, V1:20

BT7	BT8
	CH168.18 RL47.43
HORIZONTAL GEOMETRY: R=240.60m HC	
VERTICAL GEOMETRY: -0.52%, -0.43%	
DATUM RL46.2	
DESIGN LEVEL	47.35
EXISTING SURFACE	46.26
NORTHING	5808965.00
EASTING	292109.42
CHAINAGE	145.00



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 OHS Management AS/NZS 4801
 Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

Scale 1:250
 Scale 1:200, V1:20
 Scale AS SHOWN AT 1

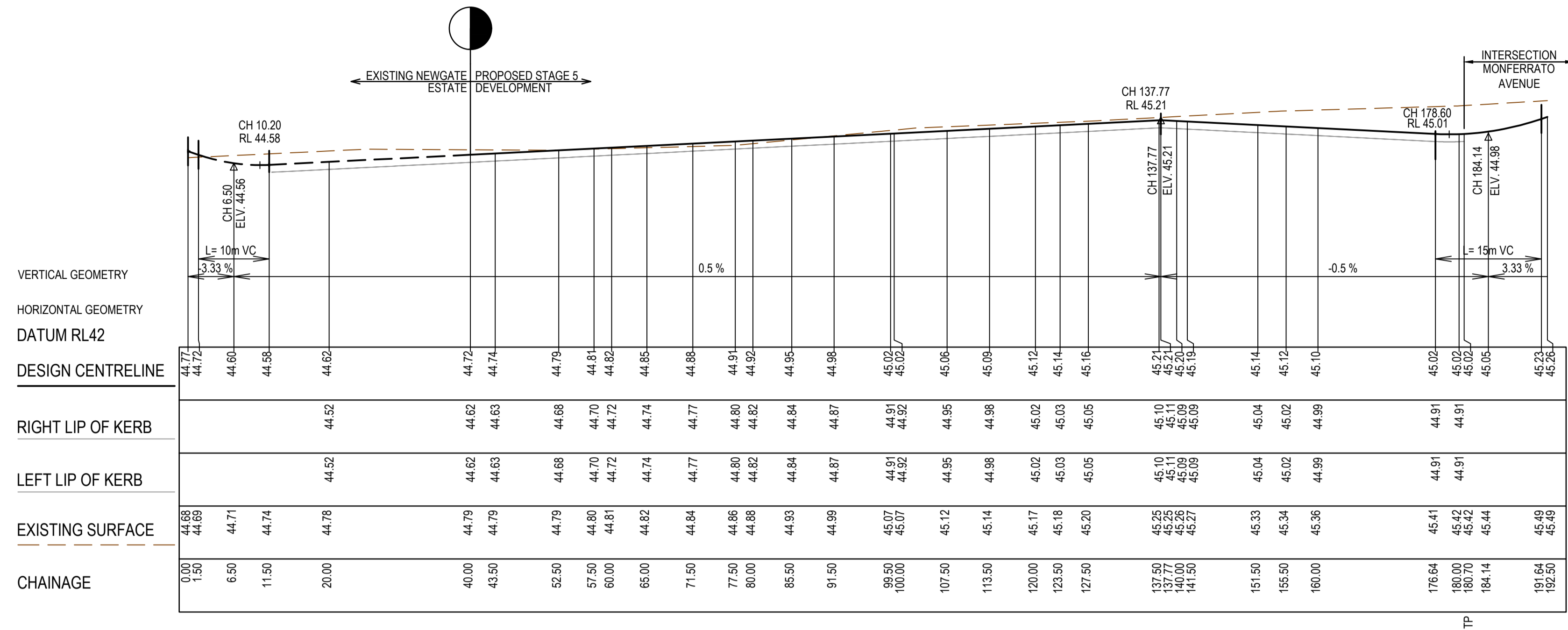
SMEC
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 ABN 47 065 475 149
 Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758

ALAMORA
Tarnait

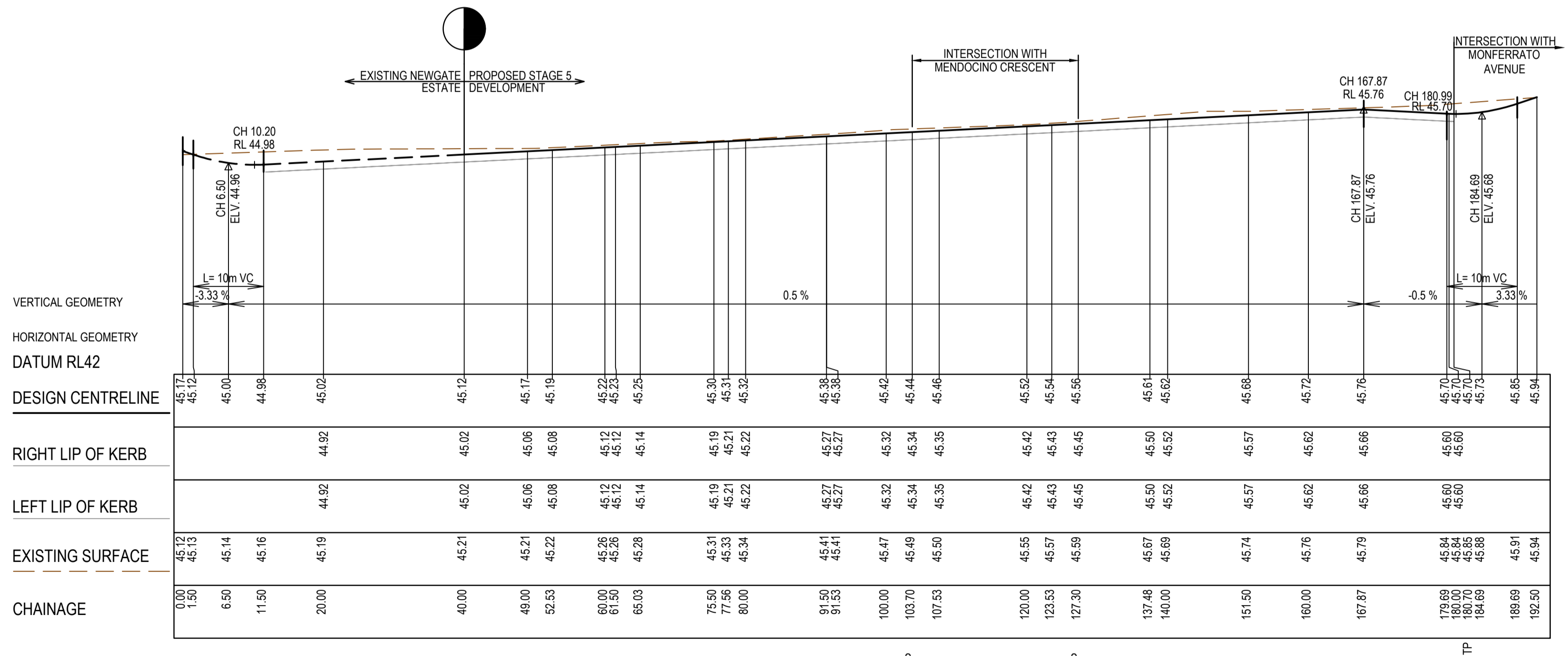
Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Intersection Detail Plan - 4

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-07	SHEET No. 07 of 21	REVISION 0
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—	EXISTING SURFACE
—	DESIGN LINE
—	FUTURE DESIGN LINE
—	EXISTING DESIGN LINE



GENAROSA GROVE LONGITUDINAL SECTION



ISOLA MEWS LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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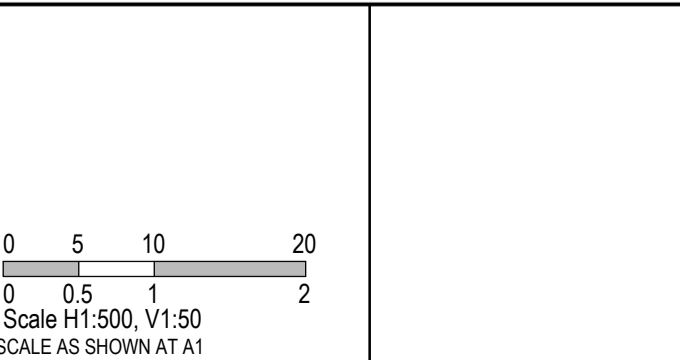
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 Environmental Management ISO 14001

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TITLE	NAME
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DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



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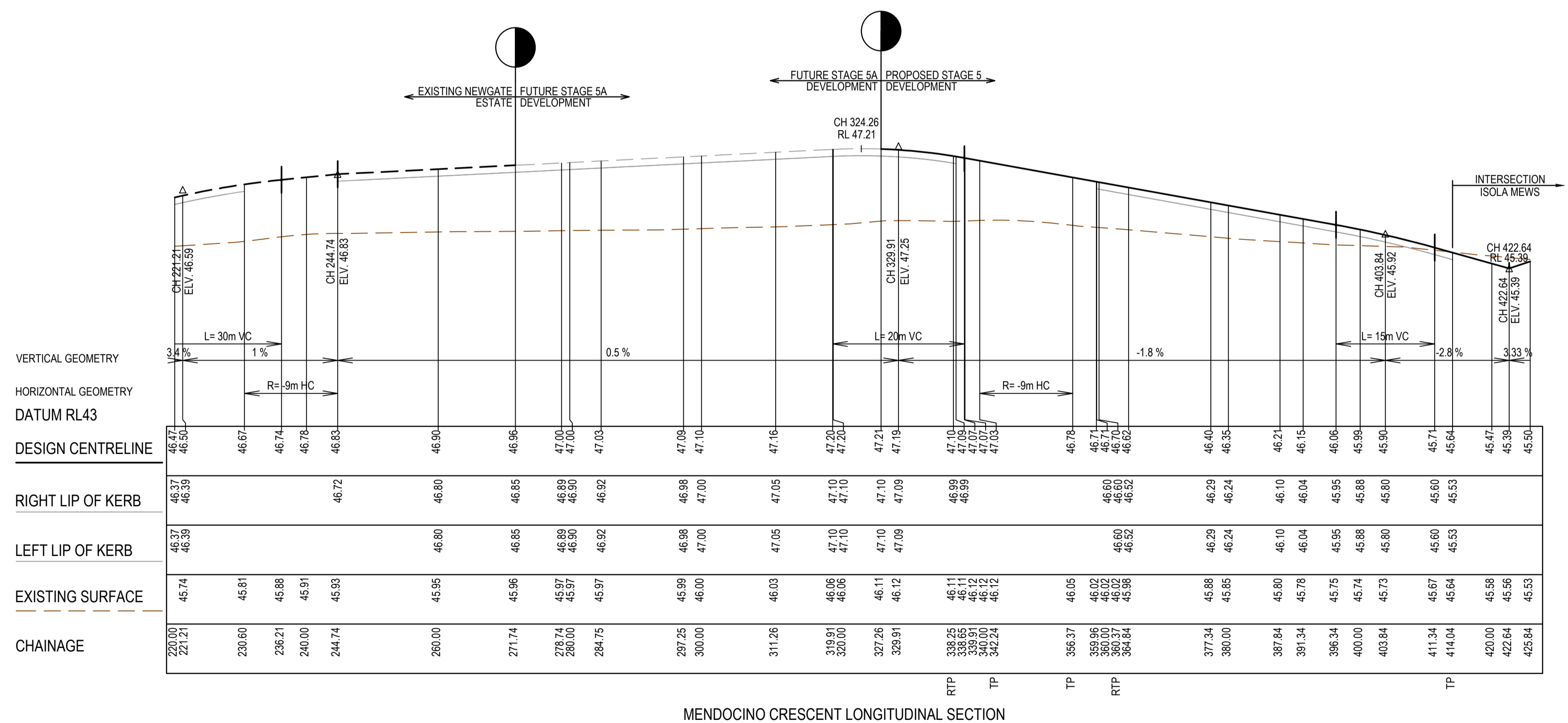
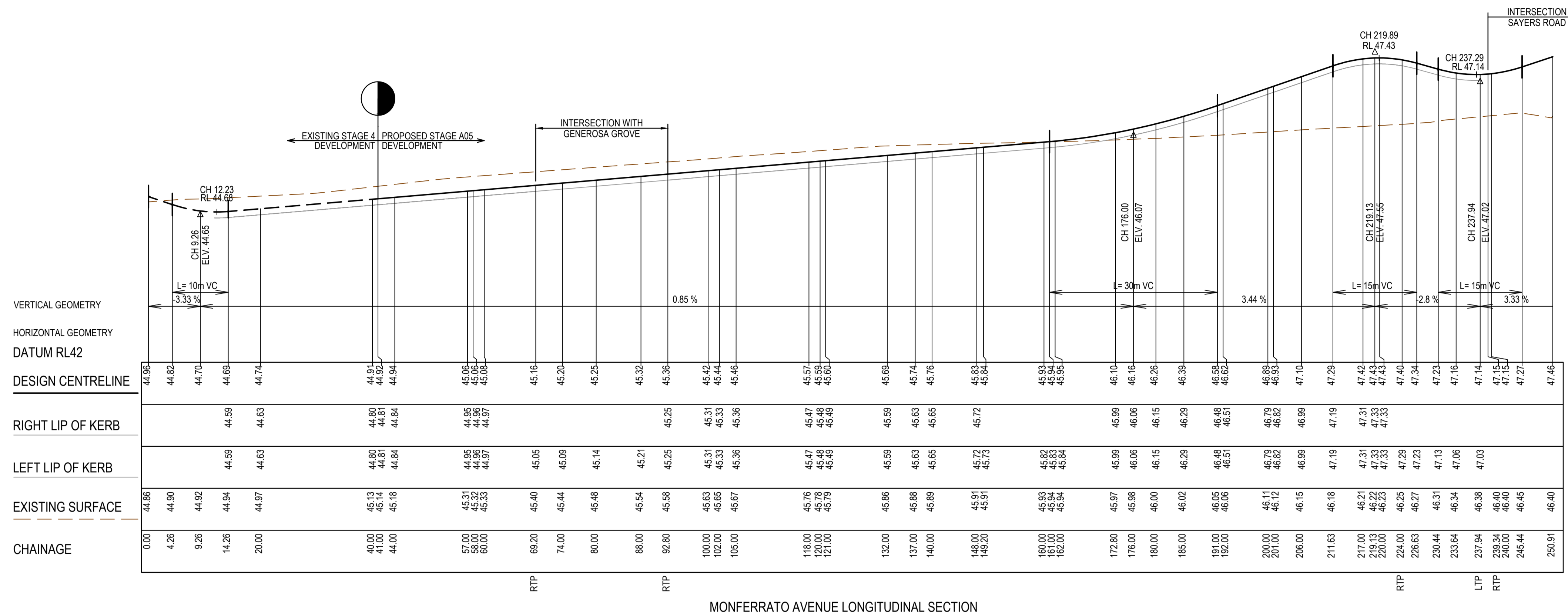
ALAMORA

Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Longitudinal Sections - 1

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-08	SHEET No. 08 of 21	REVISION 0
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LEGEND	
---	EXISTING SURFACE
——	DESIGN LINE
----	FUTURE DESIGN LINE
- - - -	EXISTING DESIGN LINE



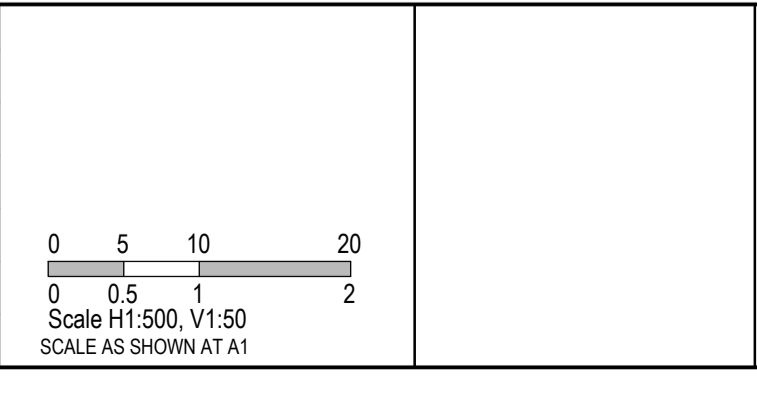
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Quality Management ISO 9001
 OHS Management AS/NZS 1880
 Environmental Management ISO 14001

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



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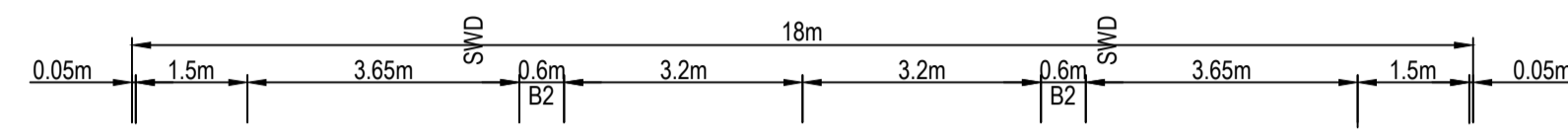
ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Longitudinal Sections - 2

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-09	SHEET No. 09 of 21	REVISION 0
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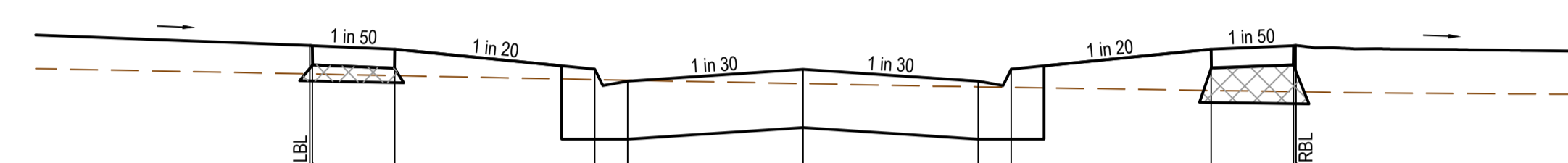
PRINTED BY: 410204 on 23/09/2022 at 09:28:57 AM

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



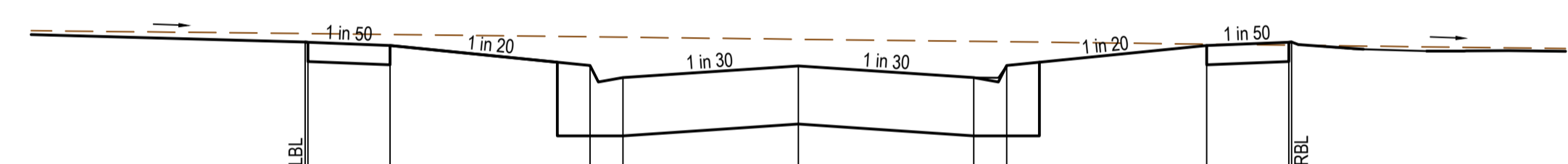
DATUM44.0									
DESIGN SURFACE		45.58	45.58	45.55	45.36	45.36	45.58	45.55	45.58
EXISTING SURFACE		45.63	45.63	45.62	45.60	45.60	45.54	45.53	45.53
OFFSET		-0.05	-0.05	-0.07	-0.24	-0.24	-0.04	-0.02	-0.05

RTPCH 92.80



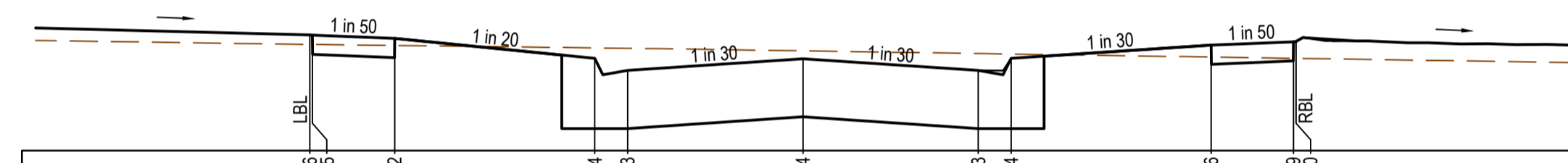
DATUM45.0									
DESIGN SURFACE		46.32	46.29	46.10	45.99	46.10	45.99	46.29	46.32
EXISTING SURFACE		46.06	46.04	46.10	46.00	45.97	45.94	46.10	46.32
OFFSET		-0.06	-0.05	-0.04	-0.01	-0.01	-0.05	-0.11	-0.02

RTPCH 172.80



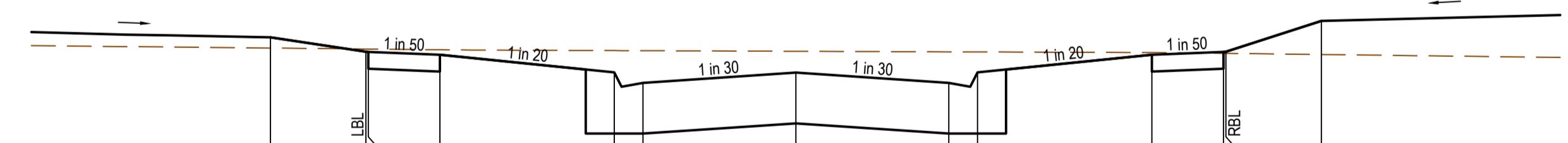
DATUM44.0									
DESIGN SURFACE		45.38	45.37	45.34	45.16	45.16	45.34	45.37	45.38
EXISTING SURFACE		45.45	45.45	45.45	45.42	45.42	45.38	45.35	45.35
OFFSET		-0.07	-0.08	-0.11	-0.26	-0.26	-0.04	-0.02	-0.03

RTPCH 69.20



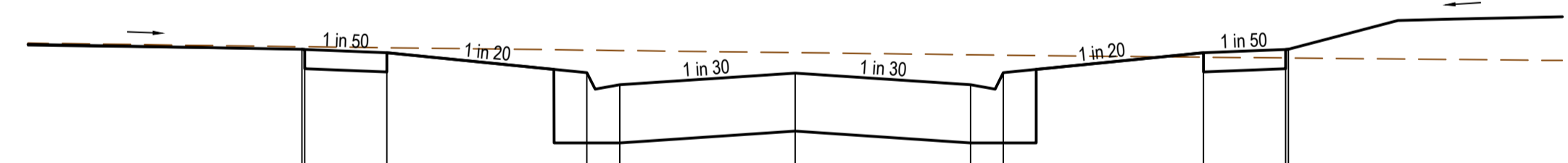
DATUM45.0									
DESIGN SURFACE		46.05	46.02	45.84	45.73	45.84	45.73	45.96	46.05
EXISTING SURFACE		45.97	45.96	45.94	45.93	45.91	45.88	45.94	46.00
OFFSET		-0.08	-0.06	-0.10	-0.20	-0.07	-0.15	-0.02	-0.05

RTPCH 149.20



DATUM44.0									
DESIGN SURFACE		45.29	45.14	45.11	44.92	44.92	45.11	45.14	45.46
EXISTING SURFACE		45.18	45.17	45.16	45.15	45.14	45.13	45.14	45.46
OFFSET		-11.00	-0.03	-0.05	-0.23	-0.23	-0.02	-0.02	-0.02

CH 41.00



DATUM44.0									
DESIGN SURFACE		45.82	45.82	45.79	45.60	45.60	45.79	45.82	45.82
EXISTING SURFACE		45.84	45.84	45.83	45.81	45.79	45.74	45.81	45.82
OFFSET		-0.02	-0.02	-0.04	-0.21	-0.21	-0.05	-0.03	-0.04

CH 121.00

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

SMEC

Member of the **Surbana Jurong Group**

ABN 47 065 475 149

Tower 4, Level 20, 727 Collins St
Melbourne, Vic, 3008, Australia
Ph: 03 5561 3758

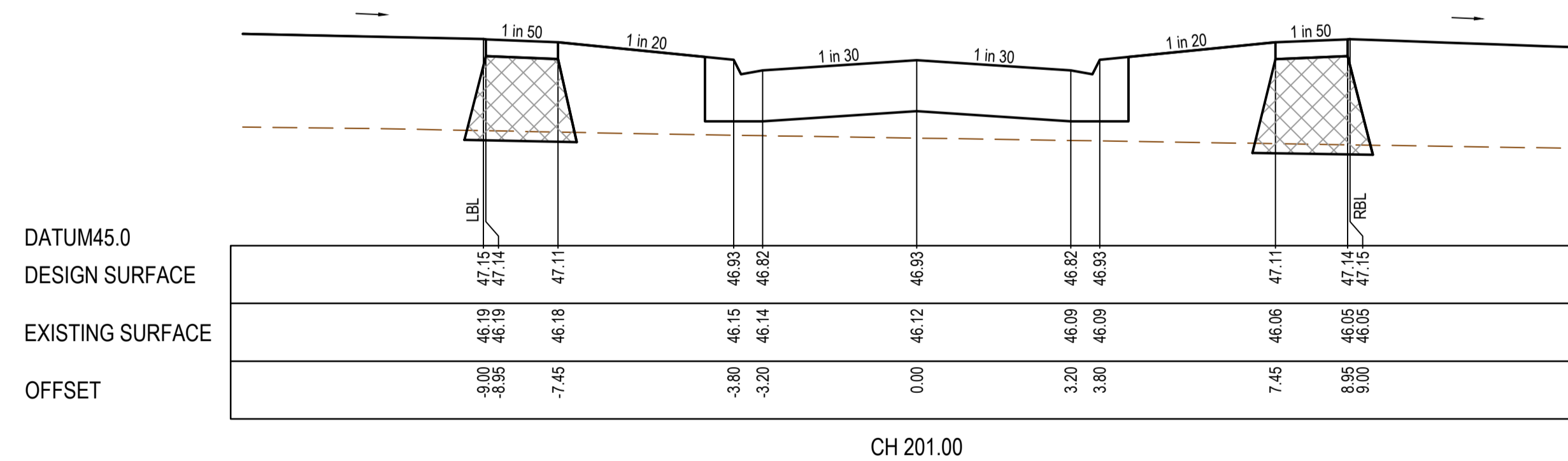
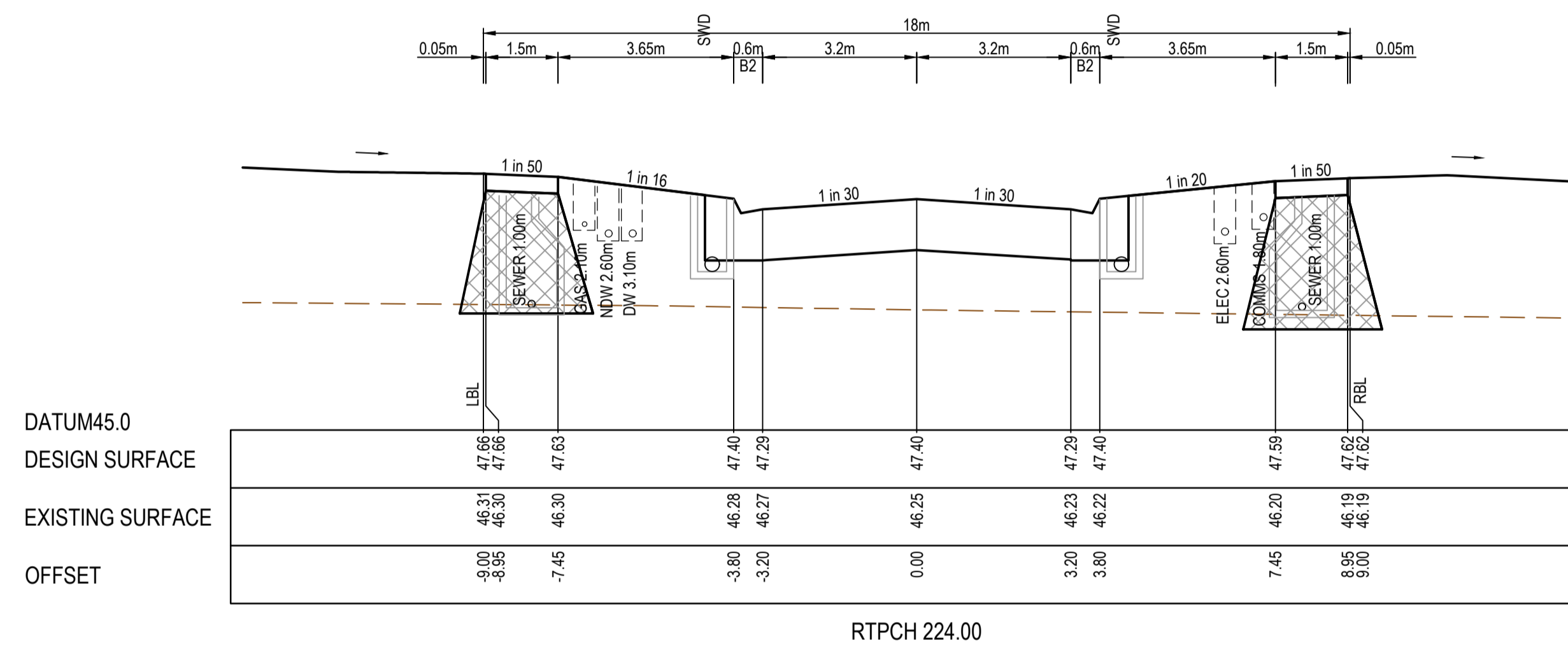
ALAMORA

Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Cross Sections: Monferrato Avenue
Ch 41.00 - Ch 172.80

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-10	SHEET No. 10 of 21	REVISION 1
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



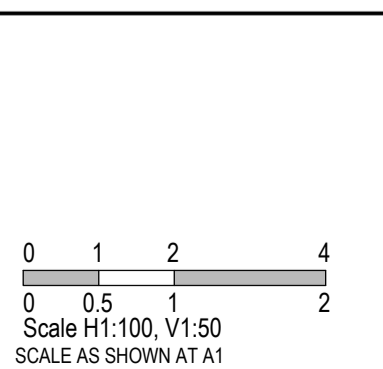
AS CONSTRUCTED PLANS
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Quality Management ISO 9001
 OHS Management AS/NZS 1801
 Environmental Management ISO 14001

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



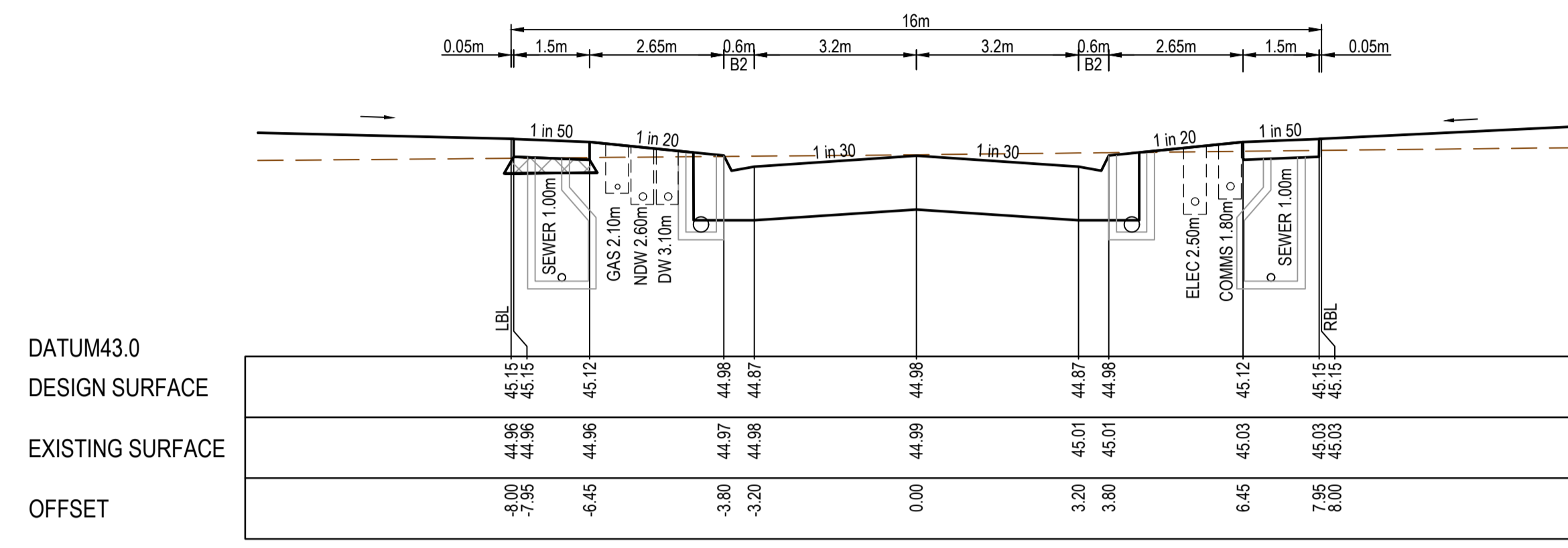
SMEC
 Member of the Surbana Jurong Group
 Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758

ALAMORA
 Tarnait

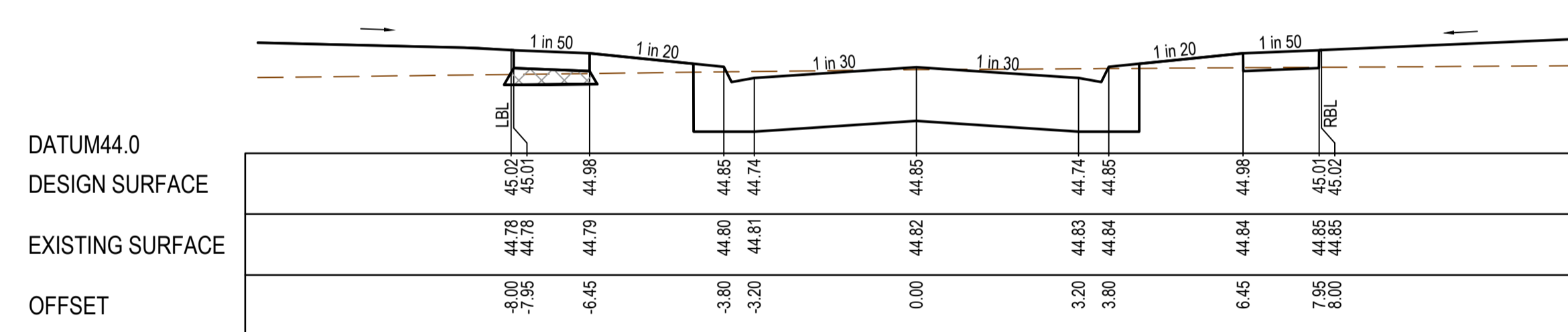
Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Cross Sections: Monferrato Avenue
 Ch 201.00 - Ch 224.00

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-11	SHEET No. 11 of 21	REVISION 1
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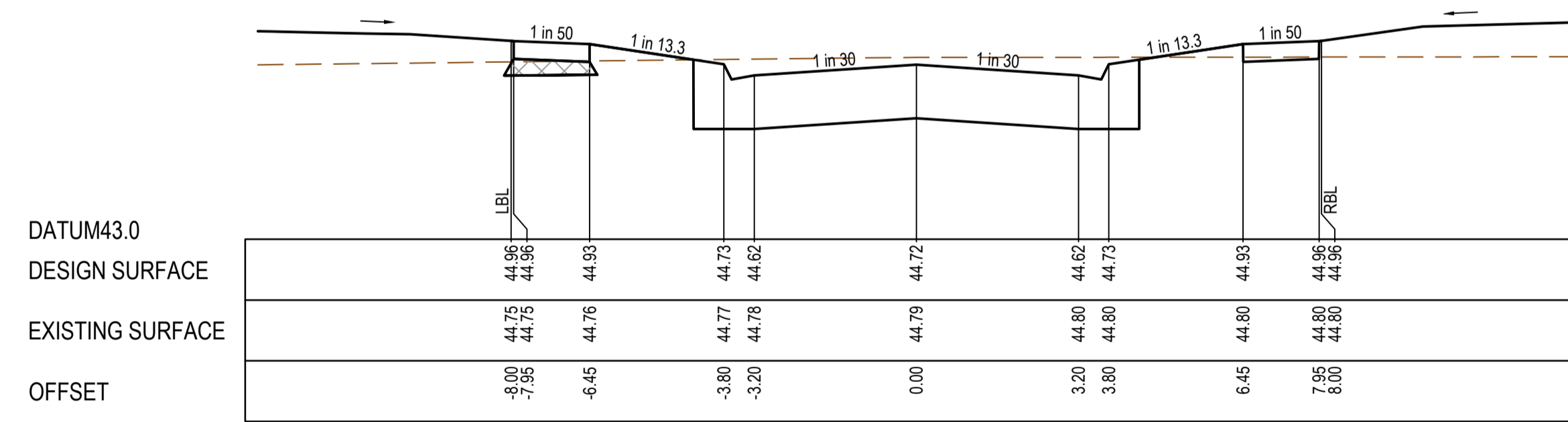
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



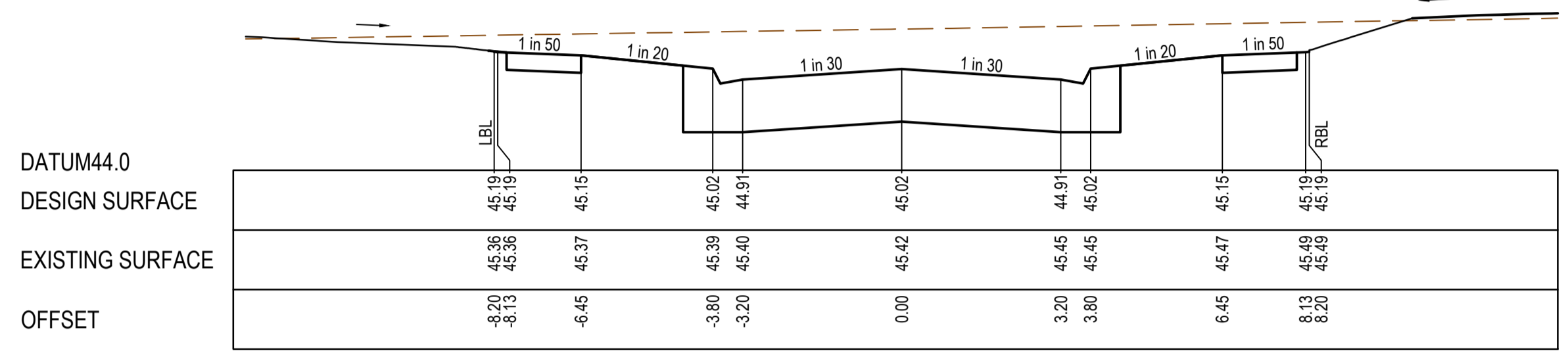
CH 91.50



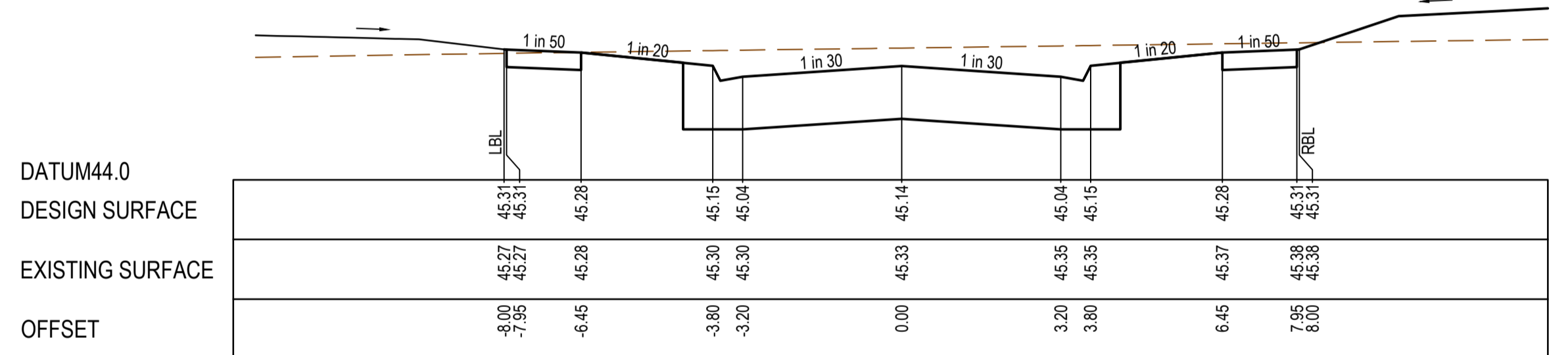
CH 65.00



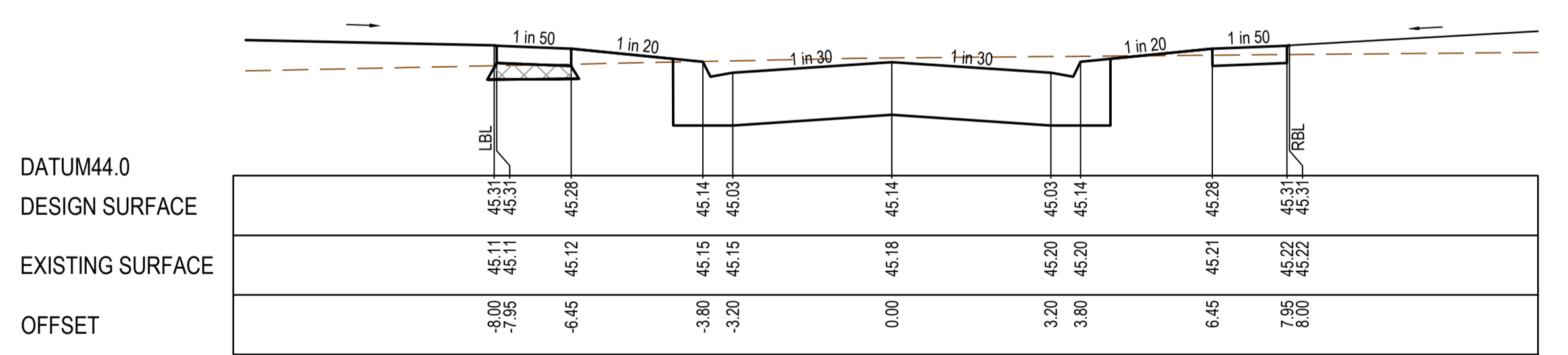
CH 40.00



RTPCH 180.70



CH 151.50



CH 123.50

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

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Quality Management ISO 9001
 OHS Management AS/NZS 1880
 Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

Member of the Surlana Jurong Group

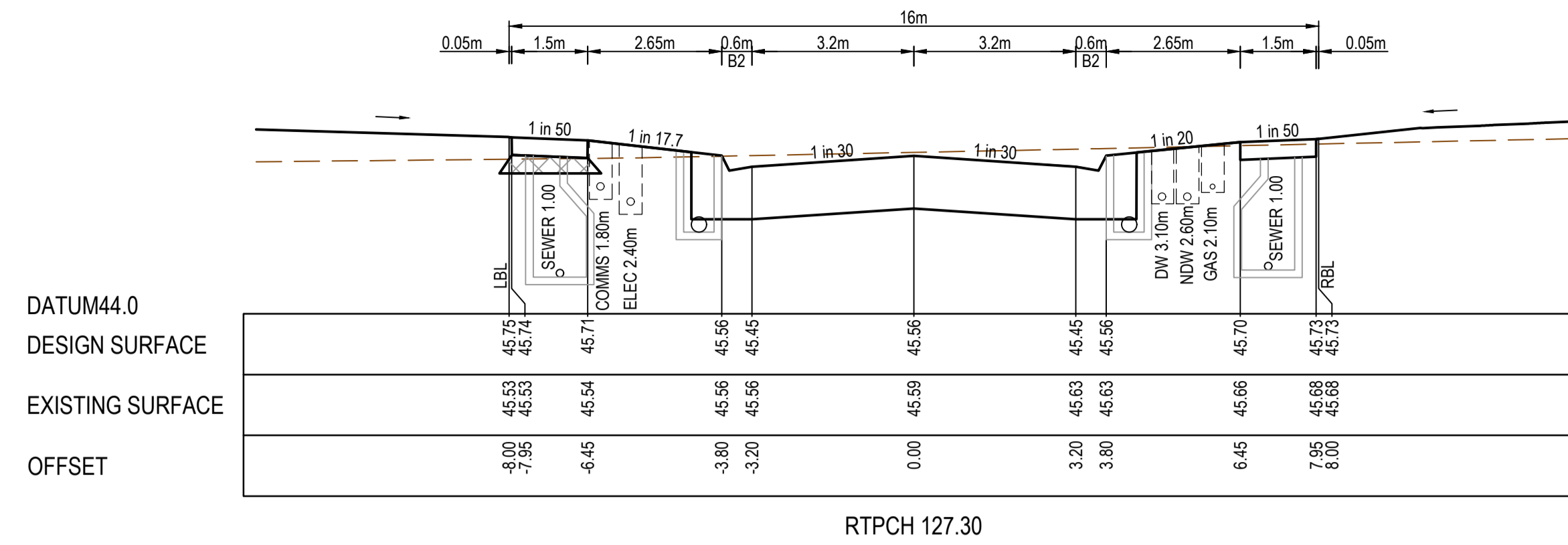
ABN 47 065 475 149

Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758

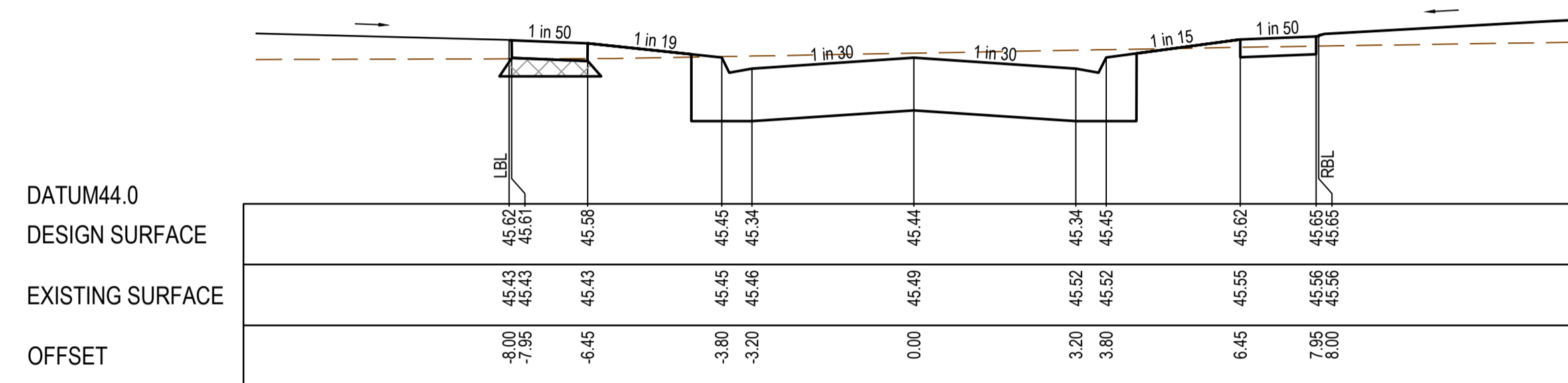
Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Cross Sections: Generosa Grove

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
234 D4	2070E-A05-12	12 of 21	1

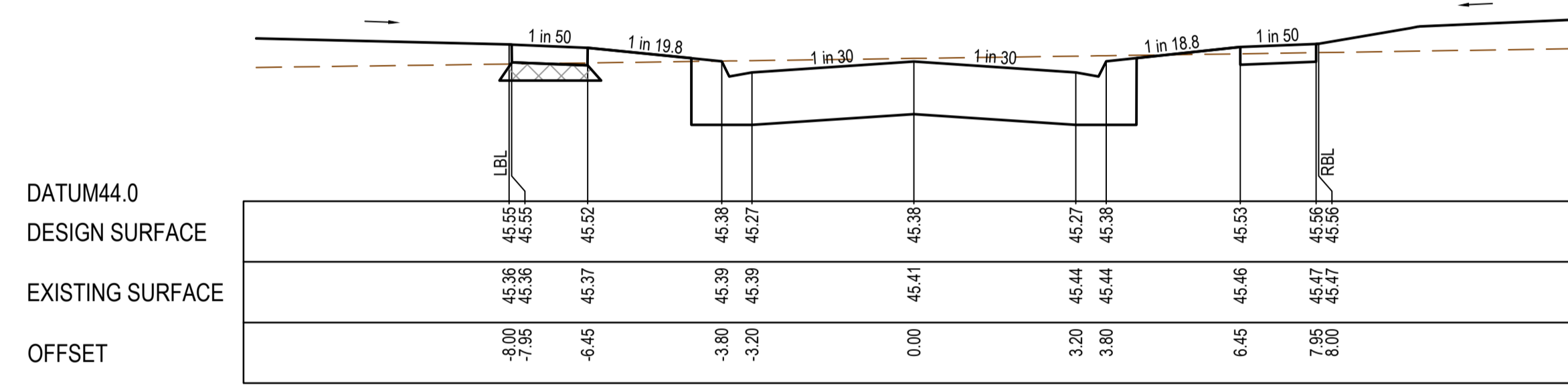
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



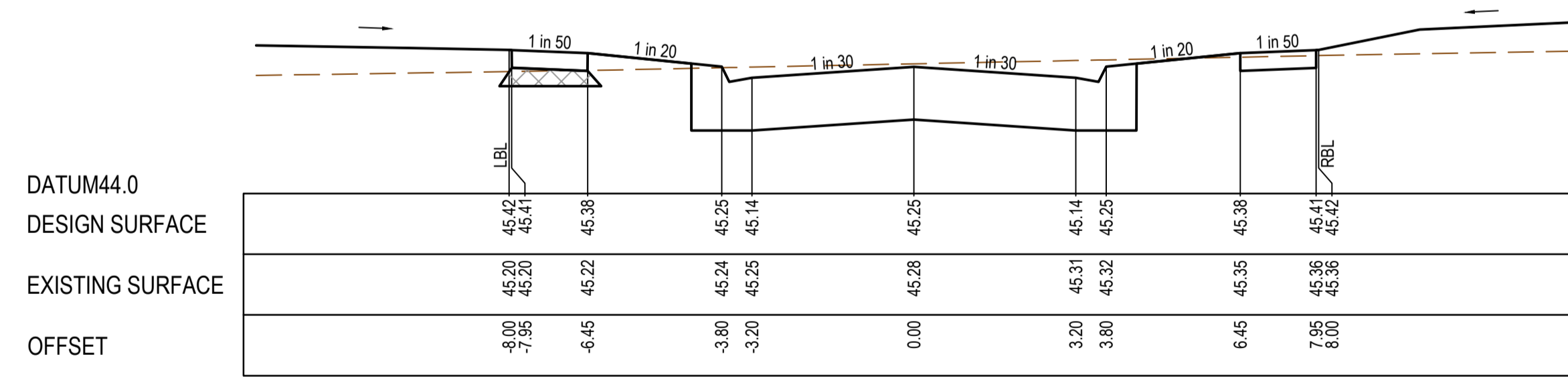
RTPCH 127.30



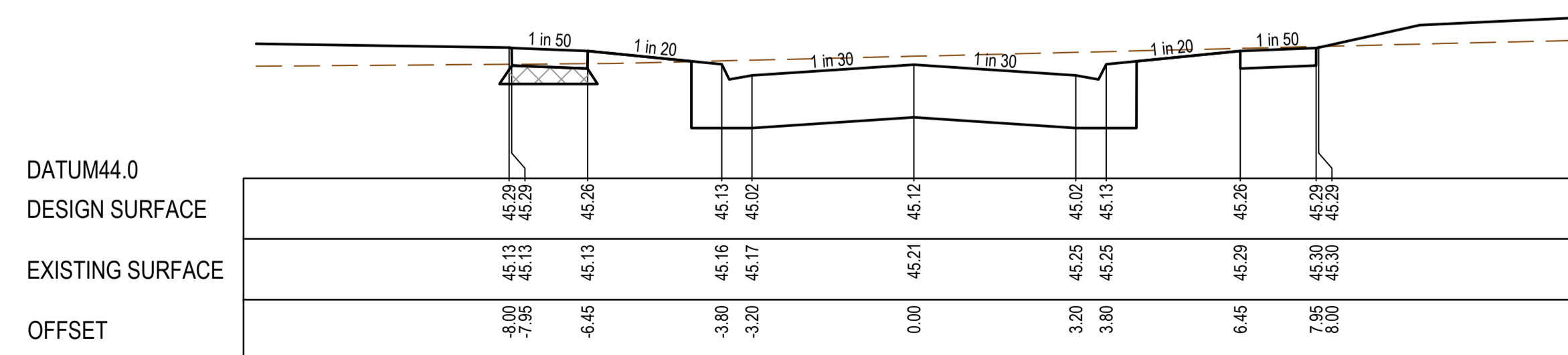
RTPCH 103.70



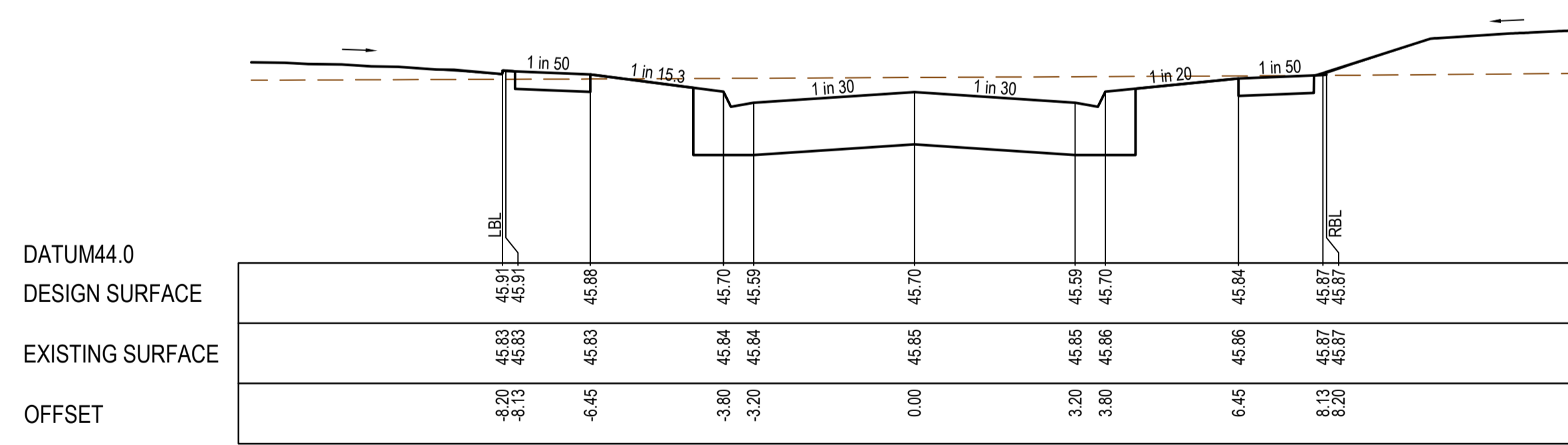
CH 91.50



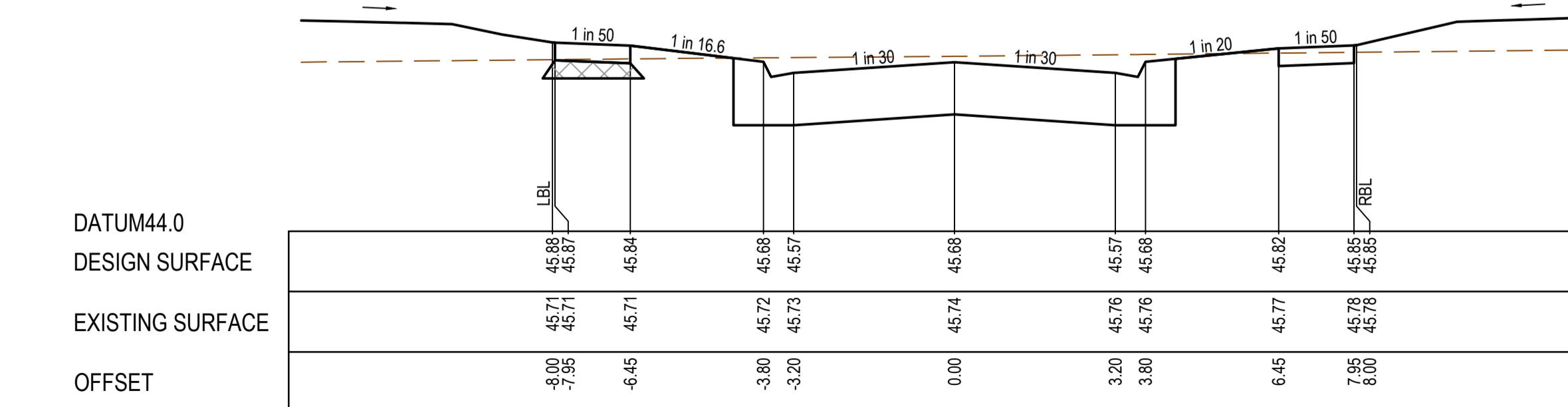
CH 65.00



CH 40.00



TPCH 180.70



CH 151.50

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.		TITLE	NAME
DRAFTER	K.McCoy	DESIGNER	L.Fang
CHECKED	N.Freeman	AUTHORISED	C.Sexton
REFERENCE No. 1		REFERENCE No. 2	

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

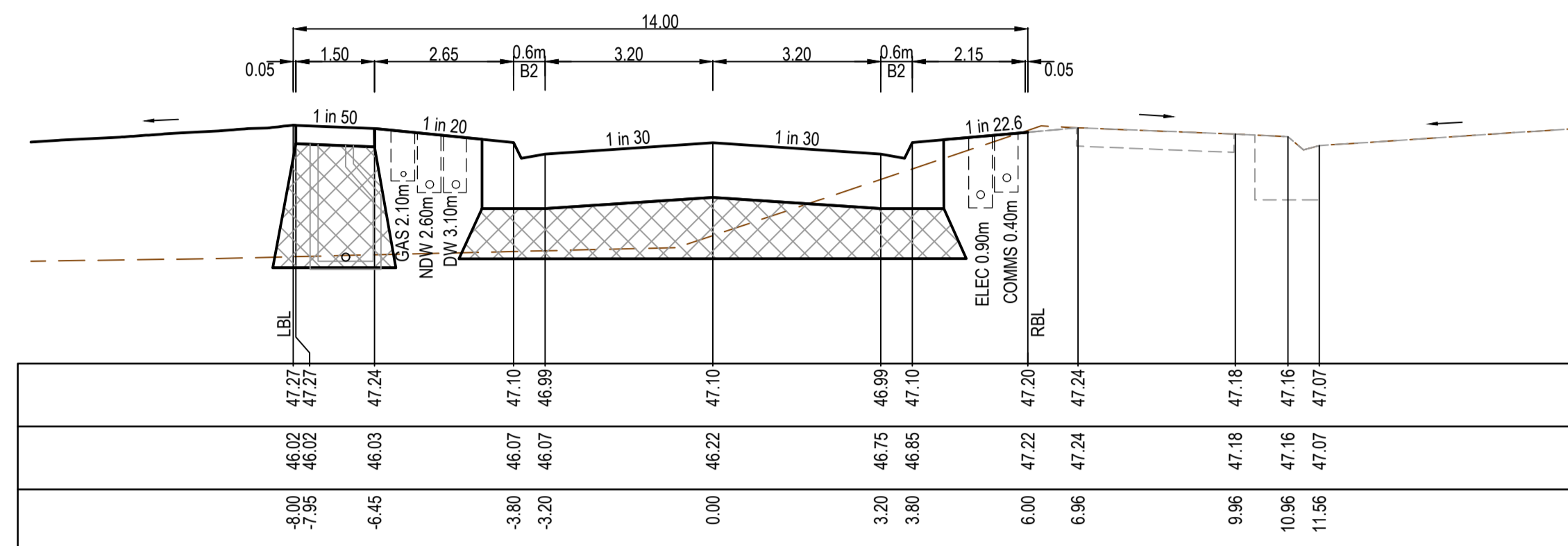
SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Tower 4, Level 20, 727 Collins St
Melbourne, Vic, 3008, Australia
Ph: 03 5561 3758

ALAMORA
Tarnait

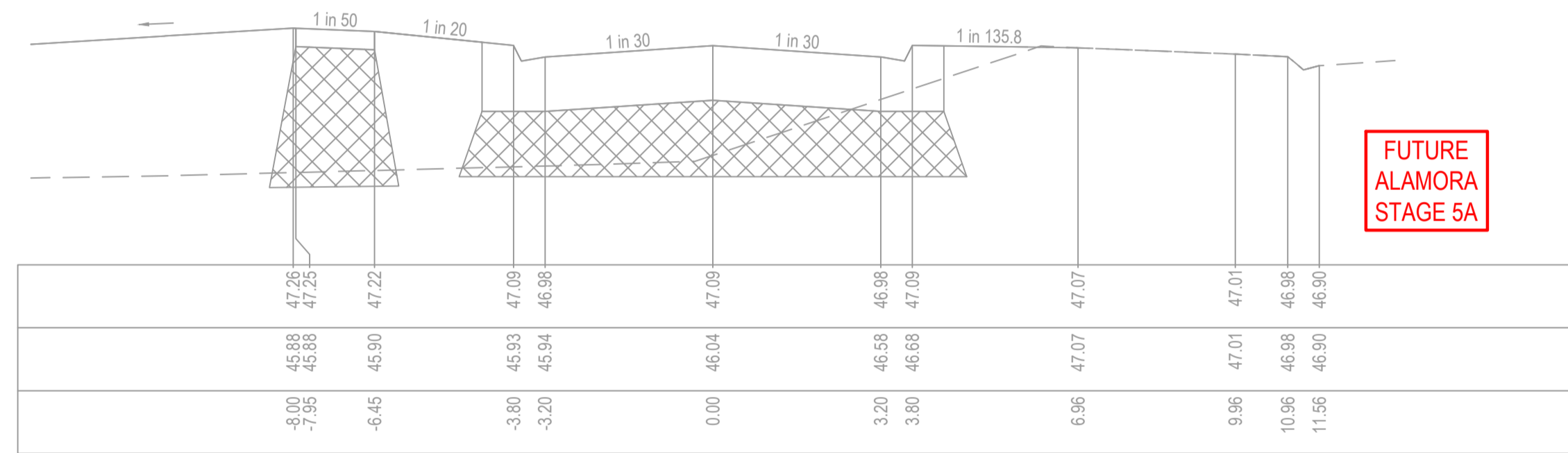
Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Cross Sections: Isola Mews

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-13	SHEET No. 13 of 21	REVISION 1
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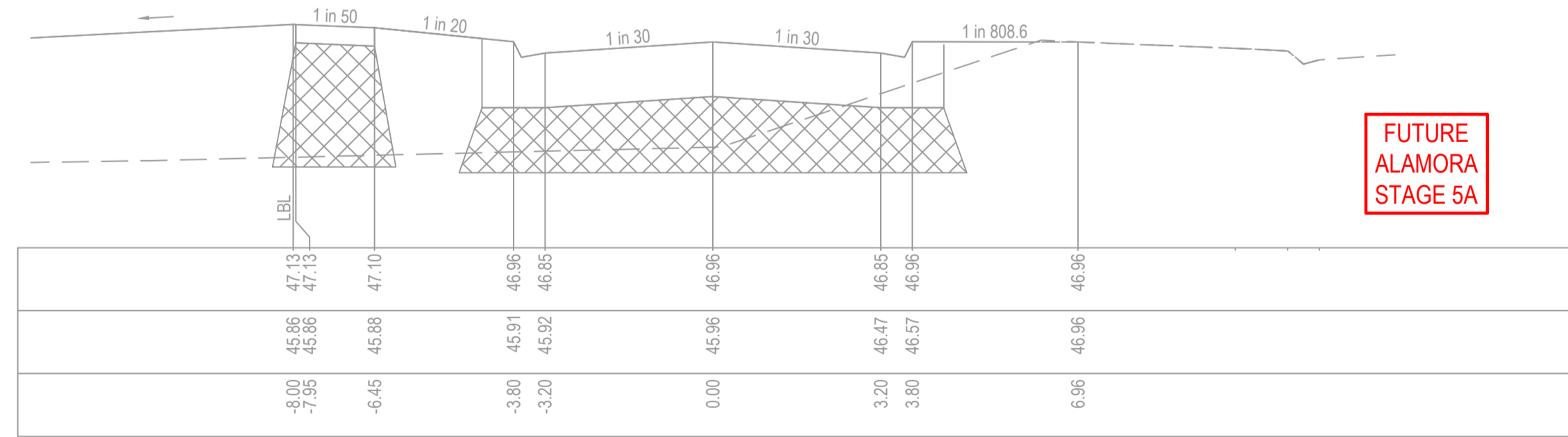
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



RTPCH 338.25

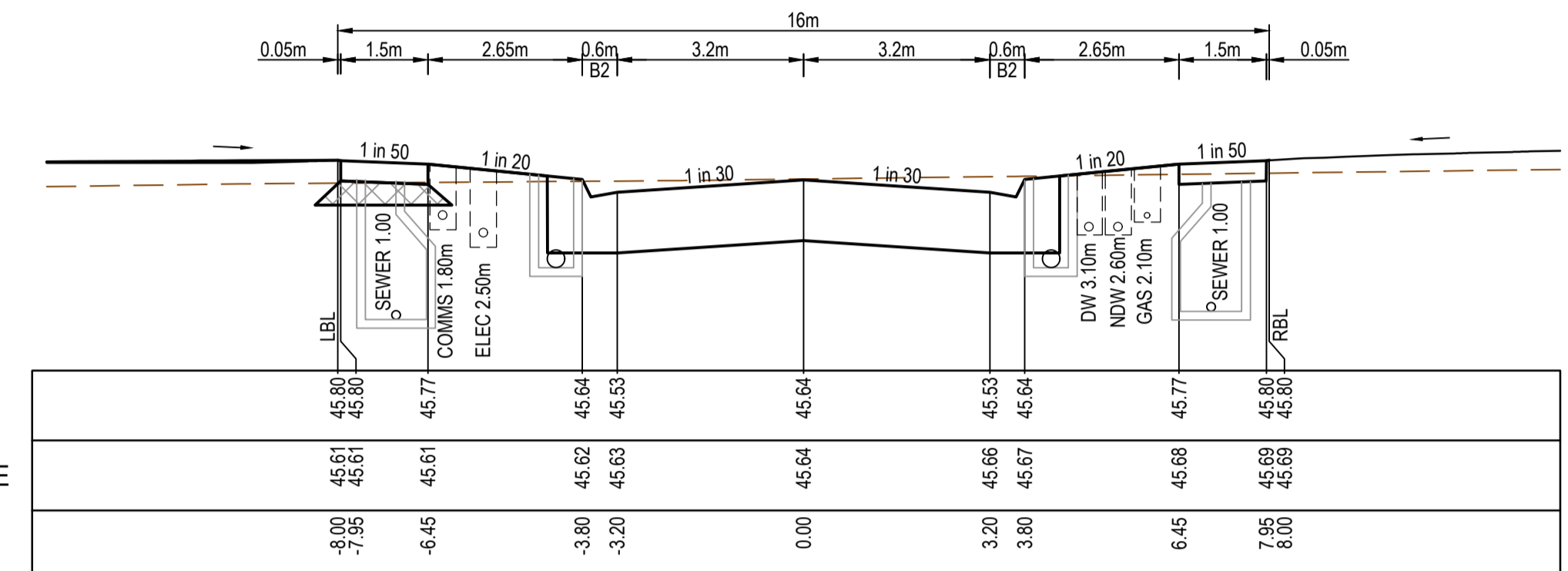


CH 297.24

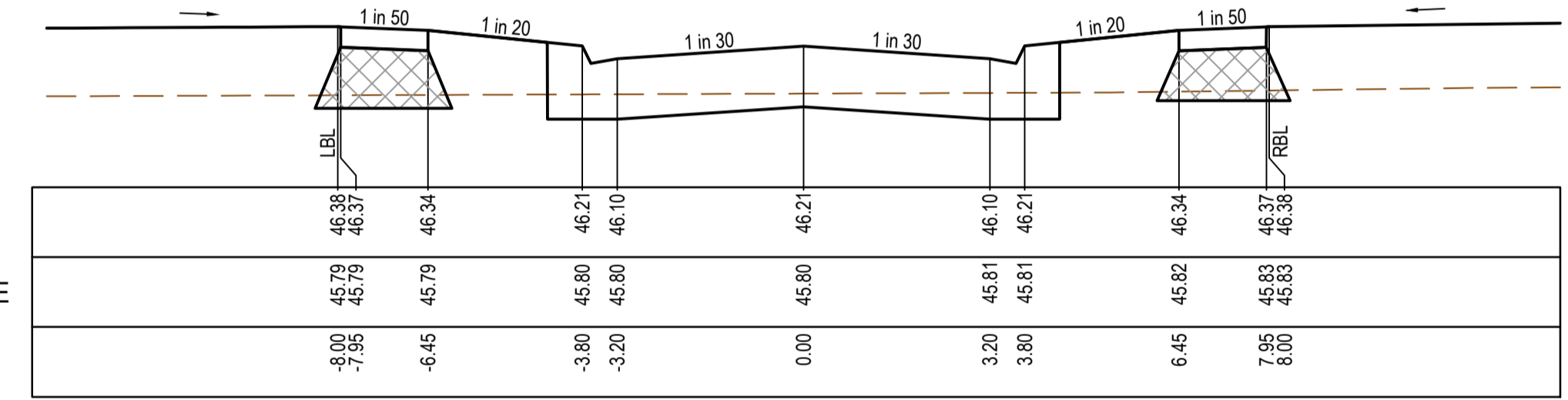


CH 271.74

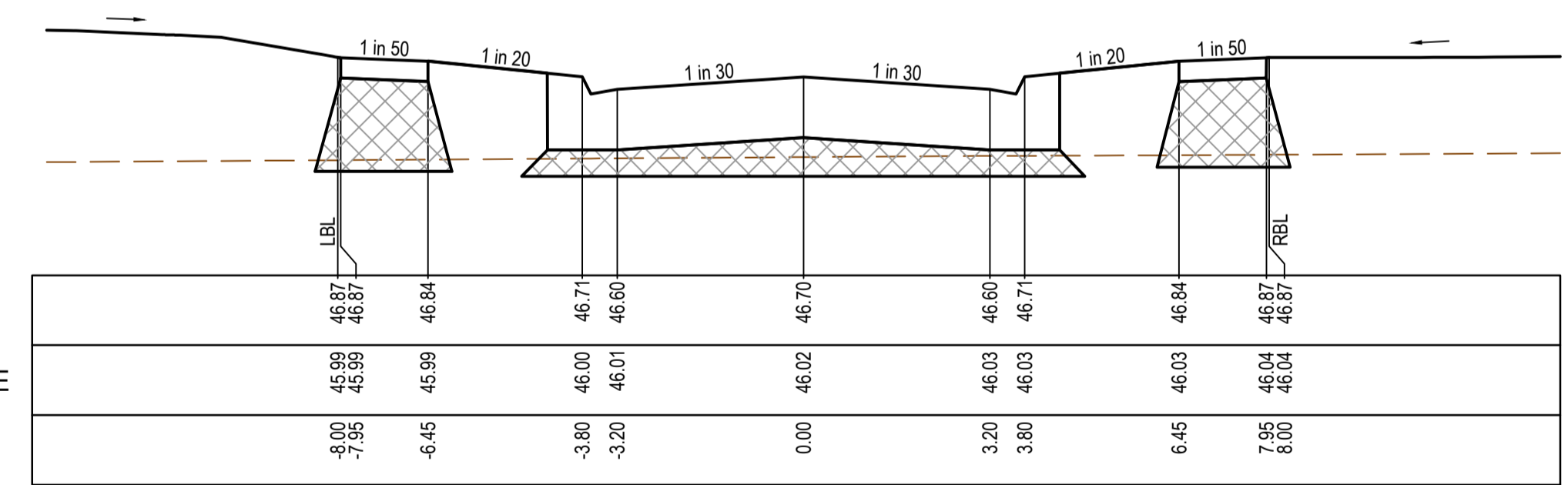
14.0m ROAD RESERVE
MENDOCINO CRESCENT



TPCH 414.04



CH 387.84



RTPCH 360.37

16.0m ROAD RESERVE
MENDOCINO CRESCENT

AS CONSTRUCTED PLANS

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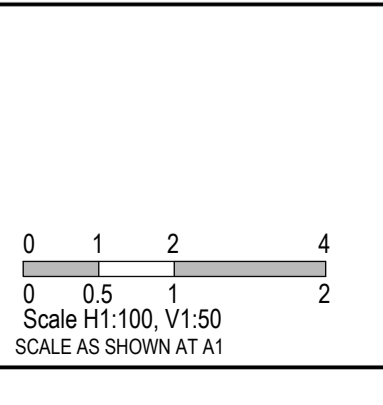
AS CONSTRUCTED

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Quality Management ISO 9001
OHS Management AS/NZS 1800
Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



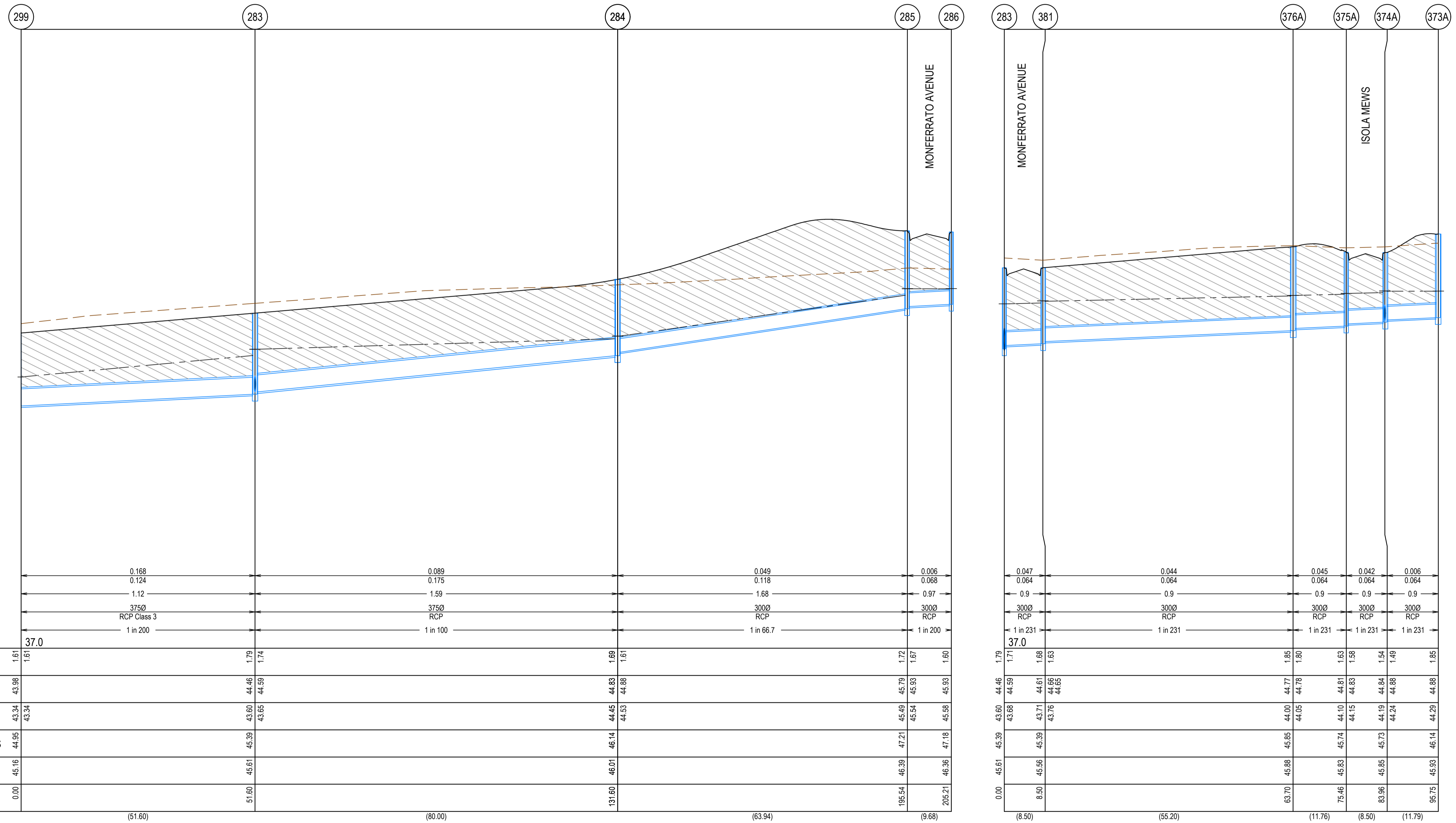
SMEC
Member of the Surlana Jurong Group
© ABN 47 065 475 149
Tower 4, Level 20, 727 Collins St
Melbourne, Vic, 3008, Australia
Ph: 03 5561 3758

ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Cross Sections: Mendocino Crescent

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-14	SHEET No. 14 of 21	REVISION 1
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION, CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



AS CONSTRUCTED PLANS
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AS CONSTRUCTED

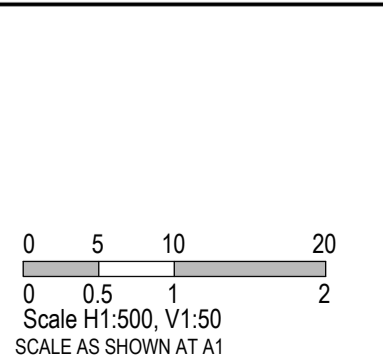
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Quality Management ISO 9001
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Site Management AS/NZS 1881
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Environmental Management ISO 14001
 Global-Mark.com.au®

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



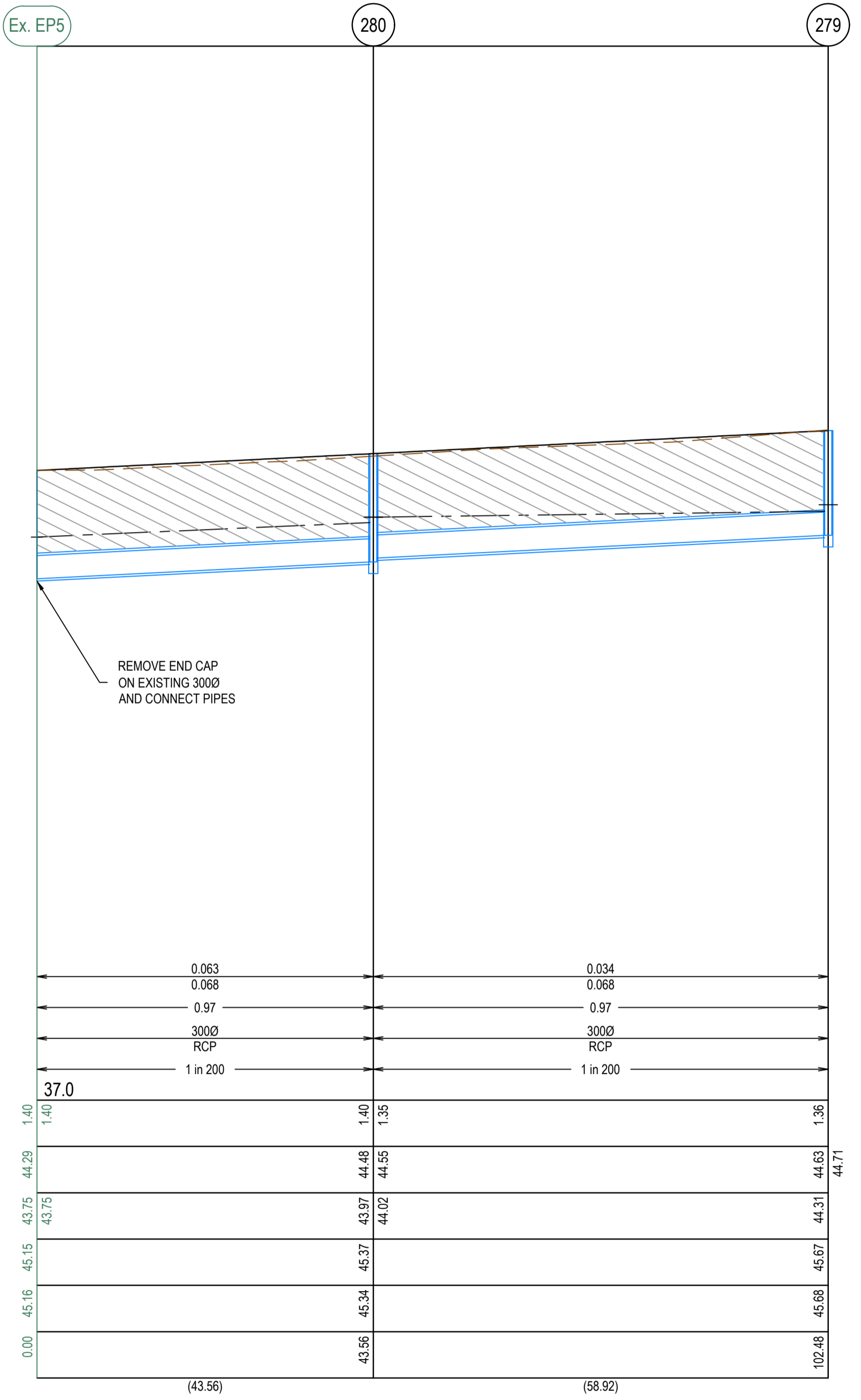
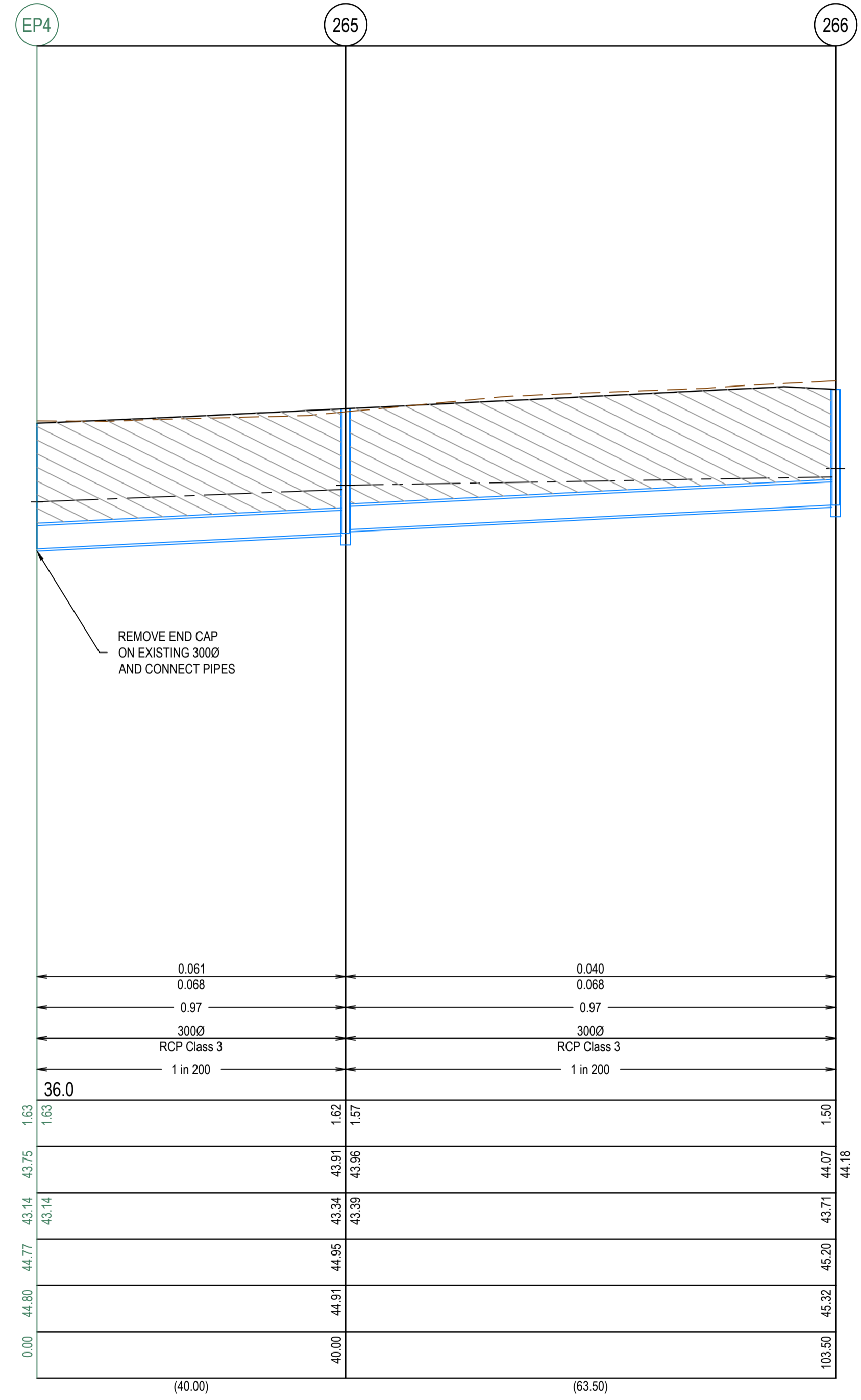
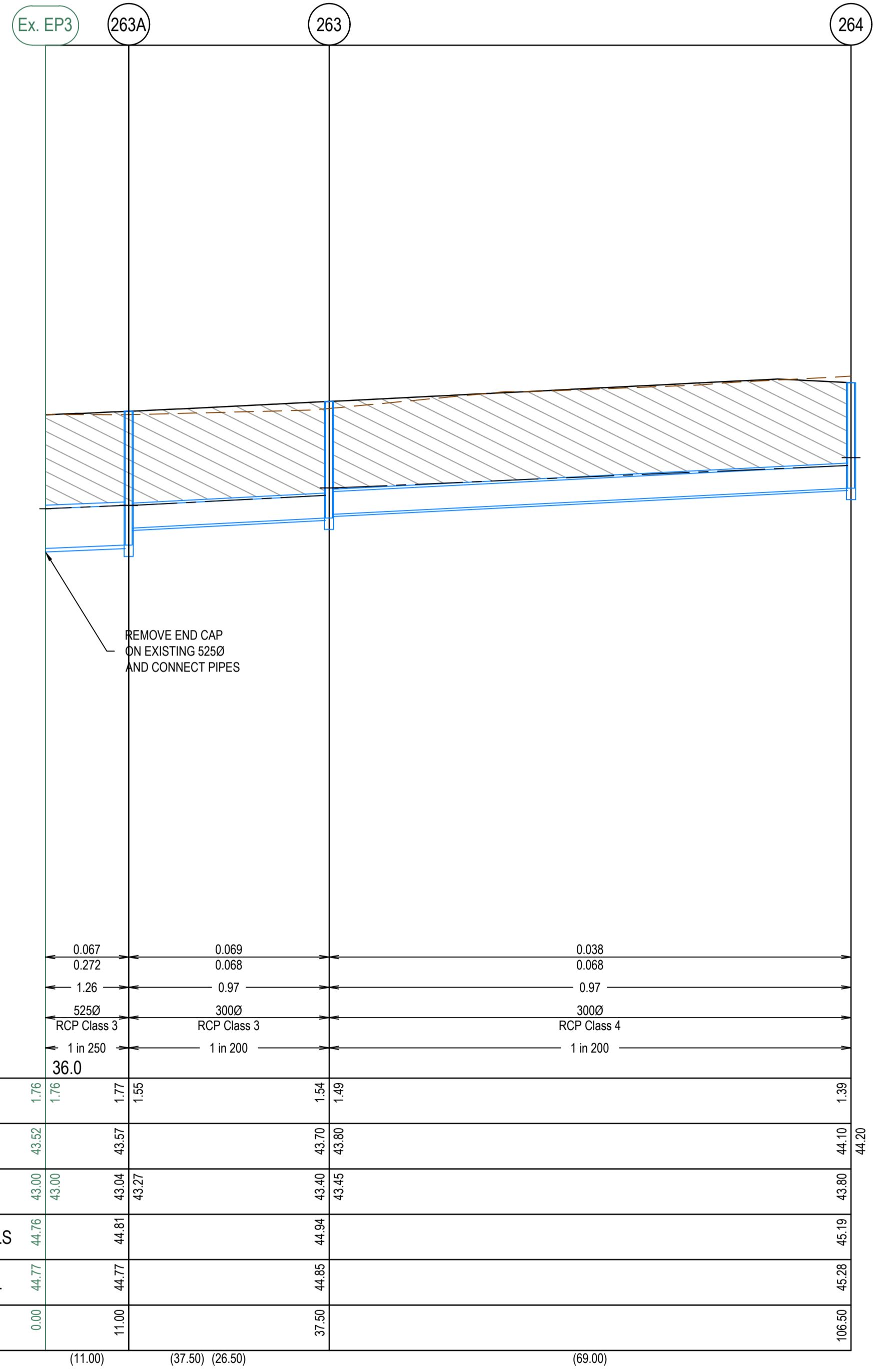
SMEC
 Member of the Surlana Jurong Group
 © ABN 47 065 475 149
 Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758



Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-15	SHEET No. 15 of 21	REVISION 0
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION, CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



AS CONSTRUCTED PLANS
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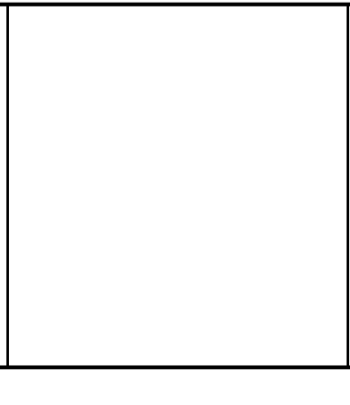
AS CONSTRUCTED

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Quality Management ISO 9001
 OHS Management AS/NZS 1881
 Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



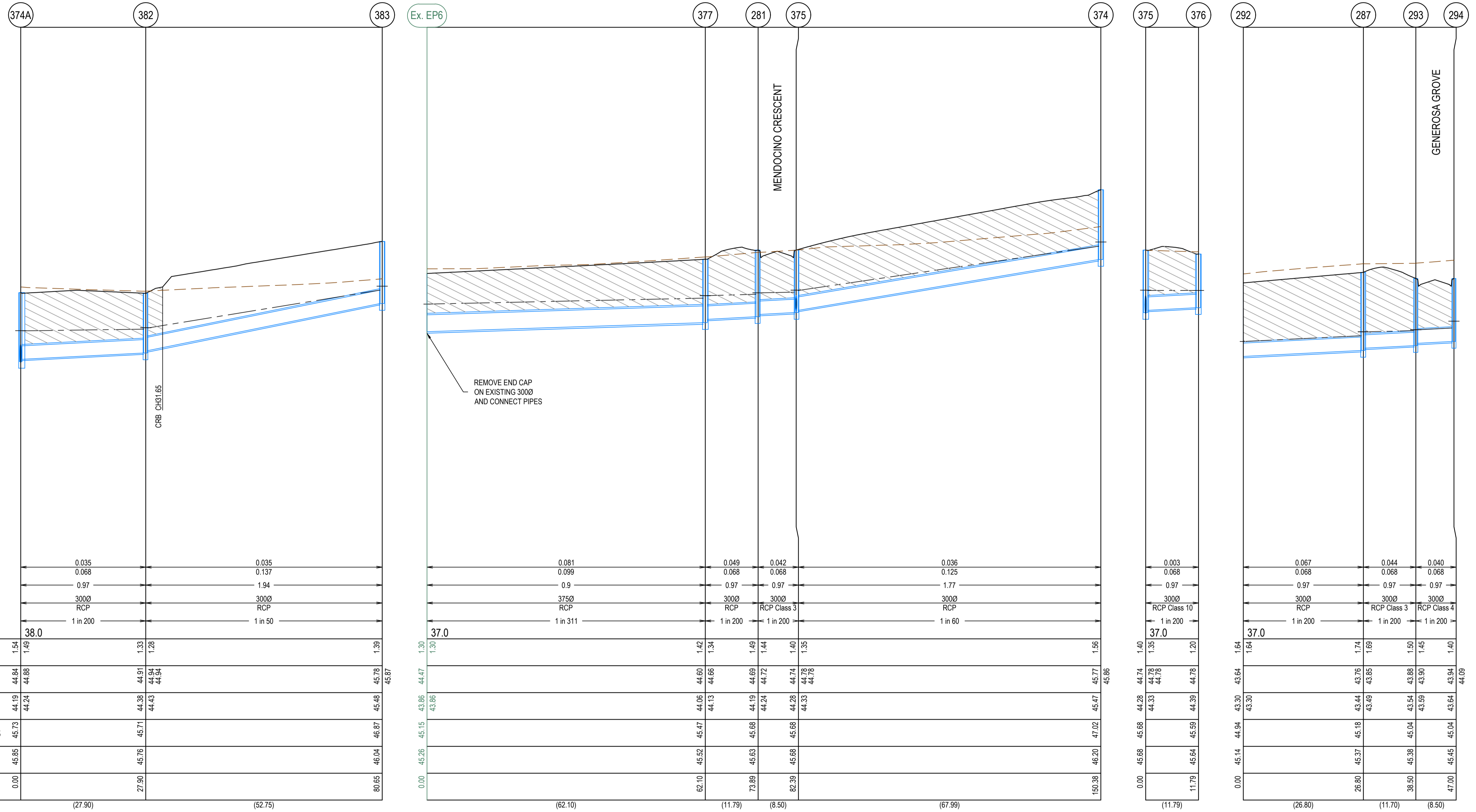
SMEC
 Member of the Surbana Jurong Group
 ABN 47 065 475 149
 Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758



Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 2

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-16	SHEET No. 16 of 21	REVISION 0
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CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION, CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



DESIGN FLOW (m ³ /s)	0.035	0.035
CAPACITY (m ³ /s)	0.068	0.137
AT GRADE VELOCITY (m/s)	0.97	1.94
NOMINAL PIPE SIZE (mm)	3000	3000
PIPE TYPE	RCP	RCP
GRADE	1 in 200	1 in 50
DATUM	38.0	
DEPTH TO INVERT	1.54 1.49	1.33 1.28
HYDRAULIC GRADE LINE	44.84 44.68	44.91 44.94
INVERT LEVEL	44.19 44.24	44.38 44.43
FINISHED SURFACE LEVELS	45.73	45.71
EXISTING SURFACE LEVEL	45.85	45.76
CHAINAGE	0.00	80.65
(Reach Length)	(27.90)	(52.75)

DESIGN FLOW (m ³ /s)	0.081	0.049	0.042	0.036
CAPACITY (m ³ /s)	0.099	0.068	0.125	0.068
AT GRADE VELOCITY (m/s)	0.9	0.97	0.97	1.77
NOMINAL PIPE SIZE (mm)	3750	3000	3000	3000
PIPE TYPE	RCP	RCP	RCP Class 3	RCP
GRADE	1 in 311	1 in 200	1 in 200	1 in 60
DATUM	37.0			
DEPTH TO INVERT	1.30 1.30	1.42 1.34	1.49 1.44	1.40 1.35
HYDRAULIC GRADE LINE	43.86 43.86	44.06 44.13	44.19 44.24	44.28 44.33
INVERT LEVEL	42.56 42.56	42.64 42.79	42.75 42.80	42.88 42.98
FINISHED SURFACE LEVELS	45.15	45.47	45.68	45.68
EXISTING SURFACE LEVEL	45.26	45.52	45.63	45.68
CHAINAGE	0.00	62.10	73.89	82.39
(Reach Length)	(62.10)	(11.79)	(8.50)	(67.99)

DESIGN FLOW (m ³ /s)	0.003	0.067	0.044	0.040
CAPACITY (m ³ /s)	0.068	0.068	0.068	0.068
AT GRADE VELOCITY (m/s)	0.97	0.97	0.97	0.97
NOMINAL PIPE SIZE (mm)	3000	3000	3000	3000
PIPE TYPE	RCP Class 10	RCP	RCP Class 3	RCP Class 4
GRADE	1 in 200	1 in 200	1 in 200	1 in 200
DATUM	37.0			
DEPTH TO INVERT	1.40 1.35	1.64 1.64	1.74 1.69	1.50 1.45
HYDRAULIC GRADE LINE	44.28 44.33	43.30 43.30	43.44 43.49	43.88 43.90
INVERT LEVEL	42.88 42.98	41.66 41.66	41.75 41.80	42.38 42.45
FINISHED SURFACE LEVELS	45.68	44.94	45.04	45.04
EXISTING SURFACE LEVEL	45.68	45.14	45.37	45.45
CHAINAGE	0.00	26.80	38.50	47.00
(Reach Length)	(11.79)	(26.80)	(11.70)	(8.50)

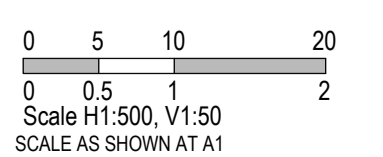
AS CONSTRUCTED PLANS
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Quality Management - ISO 9001
 OHS Management - AS/NZS 1801
 Environmental Management - ISO 14001

TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	



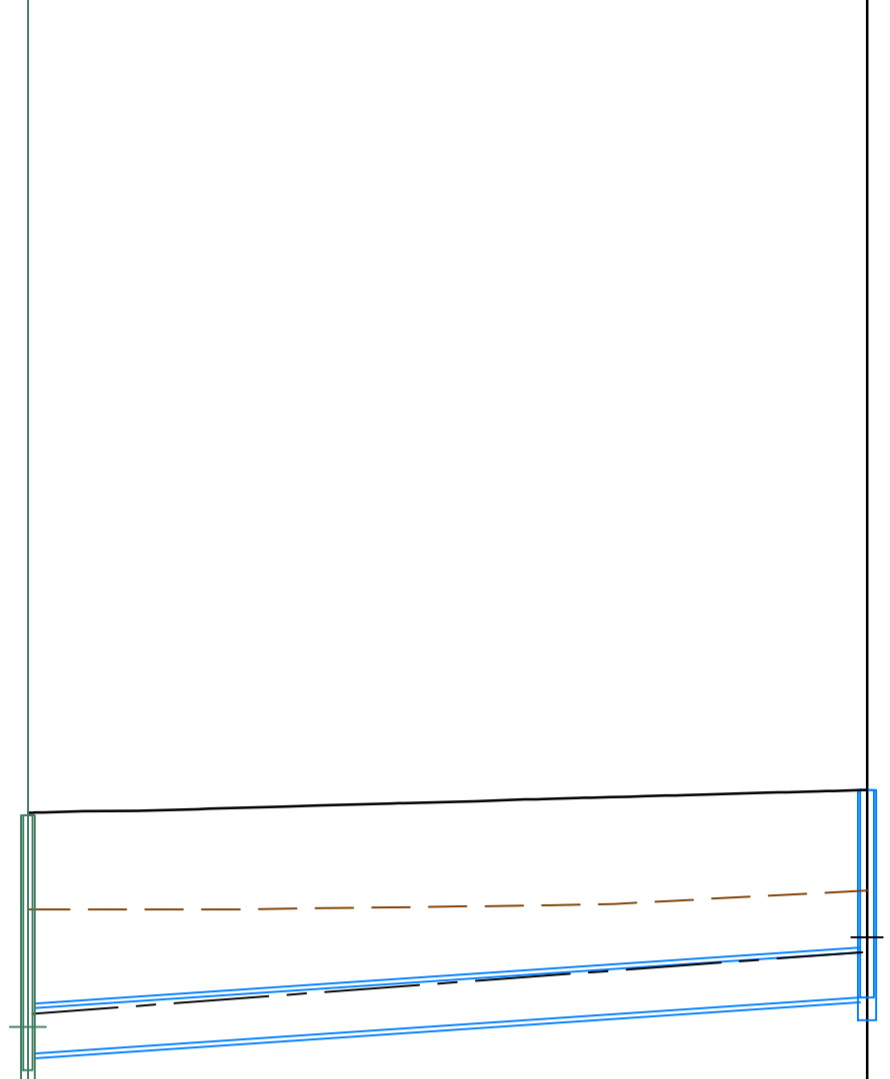
SMEC
 Member of the **Surbana Jurong Group**
 Tower 4, Level 20, 727 Collins St
 Melbourne, Vic, 3008, Australia
 Ph: 03 5561 3758

ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 3

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-17	SHEET No. 17 of 21	REVISION 0
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Ex. 273 274



DESIGN FLOW (m3/s)	0.031
CAPACITY (m3/s)	0.089
AT GRADE VELOCITY (m/s)	1.14
NOMINAL PIPE SIZE (mm)	300Ø
PIPE TYPE	RCP
GRADE	1 in 122
DATUM	38.0
DEPTH TO INVERT	1.69
HYDRAULIC GRADE LINE	44.03
INVERT LEVEL	44.55
FINISHED SURFACE LEVELS	45.23
EXISTING SURFACE LEVEL	45.61
CHAINAGE	0.00

(Reach Length) (58.75)

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)				
EP3	ENDPIPE			525	42.999	525	42.999	44.766	1.765		
263A	JUNCTION PIT	900	900	300	43.268	525	43.043	44.813	1.77	EDCM 605	
263	SIDE ENTRY PIT	600	900	300	43.45	300	43.4	44.942	1.542	EDCM 601	
264	SIDE ENTRY PIT	600	900			300	43.795	45.19	1.394	EDCM 601	
EP4	ENDPIPE			300	43.139	300	43.139	41.513	1.626		
265	SIDE ENTRY PIT	600	900	300	43.389	300	43.339	44.955	1.615	EDCM 601	
266	SIDE ENTRY PIT	600	900			300	43.707	45.205	1.498	EDCM 601	
Ex. EP5	ENDPIPE			300	43.752	300	43.752	42.349	1.403		
280	SIDE ENTRY PIT	600	900	300	44.02	300	43.97	45.373	1.403	EDCM 601	
279	SIDE ENTRY PIT	600	900			300	44.314	45.671	1.357	EDCM 601	
Ex. EP6	ENDPIPE			375	43.856	375	43.856	42.558	1.298		
377	JUNCTION PIT	600	900	300	44.131	375	44.056	45.472	1.416	EDCM 605	
281	DOUBLE SIDE ENTRY PIT	600	900	300	44.24	300	44.19	45.678	1.488	EDCM 602	
375	DOUBLE SIDE ENTRY PIT	600	900	300	44.332	300	44.282	45.678	1.396	EDCM 602	
				300	44.332						
374	JUNCTION PIT	600	900			300	45.466	47.024	1.559	EDCM 601	
				300	44.658	300	44.608	42.966	1.642		
274	JUNCTION PIT	900	600			300	45.028	46.4	1.373	EDCM 605	
Ex. 299	ENDPIPE			375	43.344	375	43.344	41.736	1.608		
283	SIDE ENTRY PIT	600	900	375	43.652	375	43.602	45.391	1.789	EDCM 601	
				300	43.677						
284	SIDE ENTRY PIT	600	900	300	44.527	375	44.452	46.137	1.685	EDCM 601	
285	DOUBLE SIDE ENTRY PIT	600	900	300	45.536	300	45.486	47.205	1.719	EDCM 602	
286	DOUBLE SIDE ENTRY PIT	600	900			300	45.584	47.181	1.596	EDCM 602	
Ex. 292	ENDPIPE			300	43.302	300	43.302	41.66	1.642		
287	JUNCTION PIT	600	900	300	43.486	300	43.436	45.18	1.743	EDCM 602	
293	DOUBLE SIDE ENTRY PIT	600	900	300	43.595	300	43.545	45.042	1.497	EDCM 602	
294	DOUBLE SIDE ENTRY PIT	600	900			300	43.637	45.042	1.405	EDCM 602	
381	SIDE ENTRY PIT	600	900	300	43.764	300	43.714	45.391	1.677	EDCM 602	
376A	JUNCTION PIT	600	900	300	44.053	300	44.003	45.854	1.852	EDCM 605	
375A	DOUBLE SIDE ENTRY PIT	600	900	300	44.154	300	44.104	45.735	1.632	EDCM 602	
374A	DOUBLE SIDE ENTRY PIT	600	900	300	44.24	300	44.19	45.728	1.538	EDCM 602	
				300	44.24						
Ex. 273	JUNCTION PIT	600	900	300			46.233	44.543	1.69	EDCM 605	
373A	JUNCTION PIT	600	900			300	44.291	46.137	1.846	EDCM 605	
382	JUNCTION PIT	600	900	300	44.43	300	44.38	45.712	1.332	EDCM 605	
383	JUNCTION PIT	600	900			300	45.485	46.871	1.386	EDCM 605	
376	SIDE ENTRY PIT	600	900			268	44.391	45.589	1.198		

AS CONSTRUCTED PLANS

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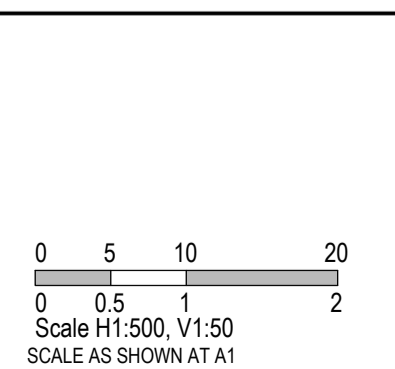
AS CONSTRUCTED

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Quality Management ISO 9001
 OHS Management AS/NZS 1881
 Environmental Management ISO 14001

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

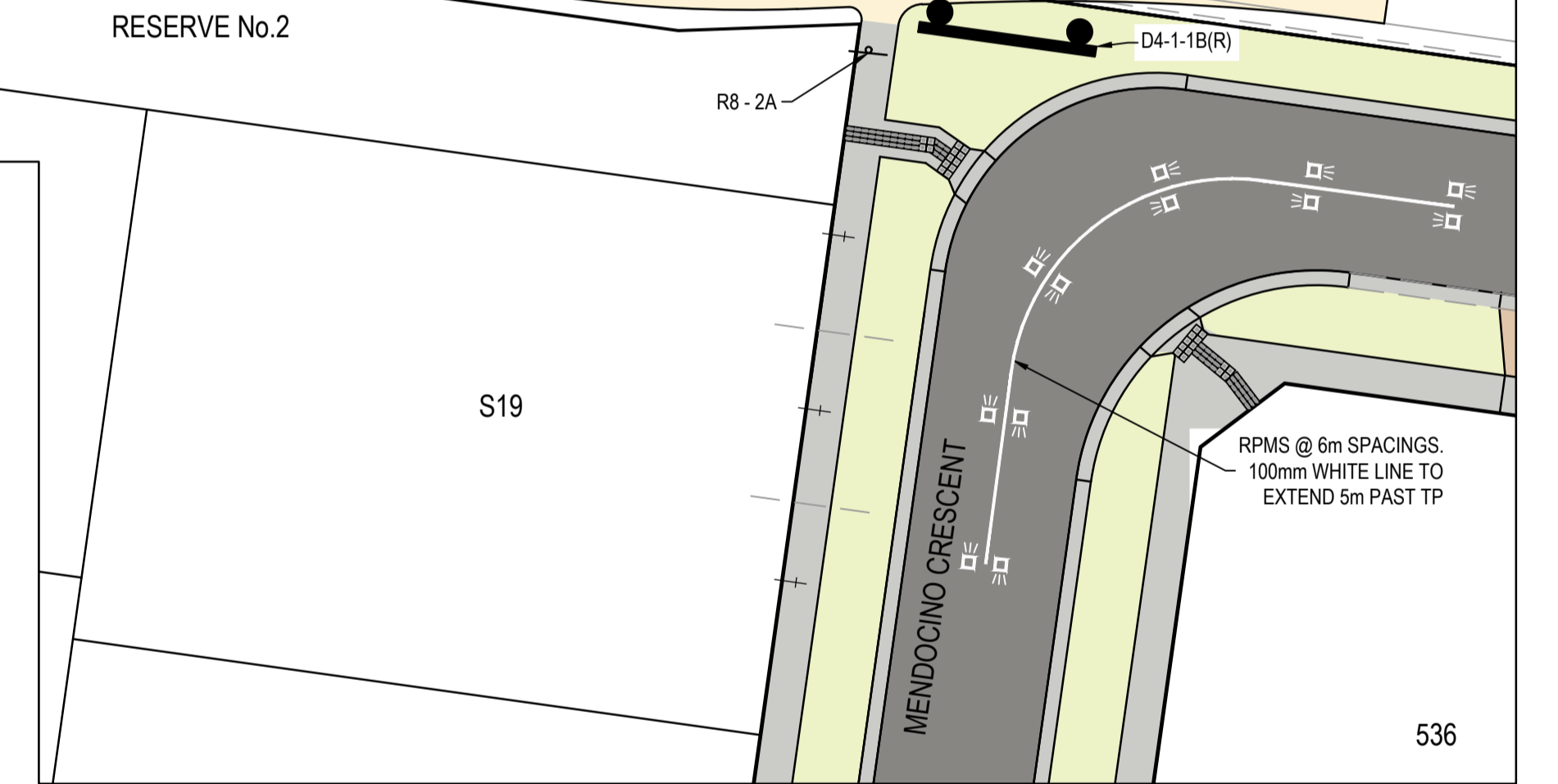
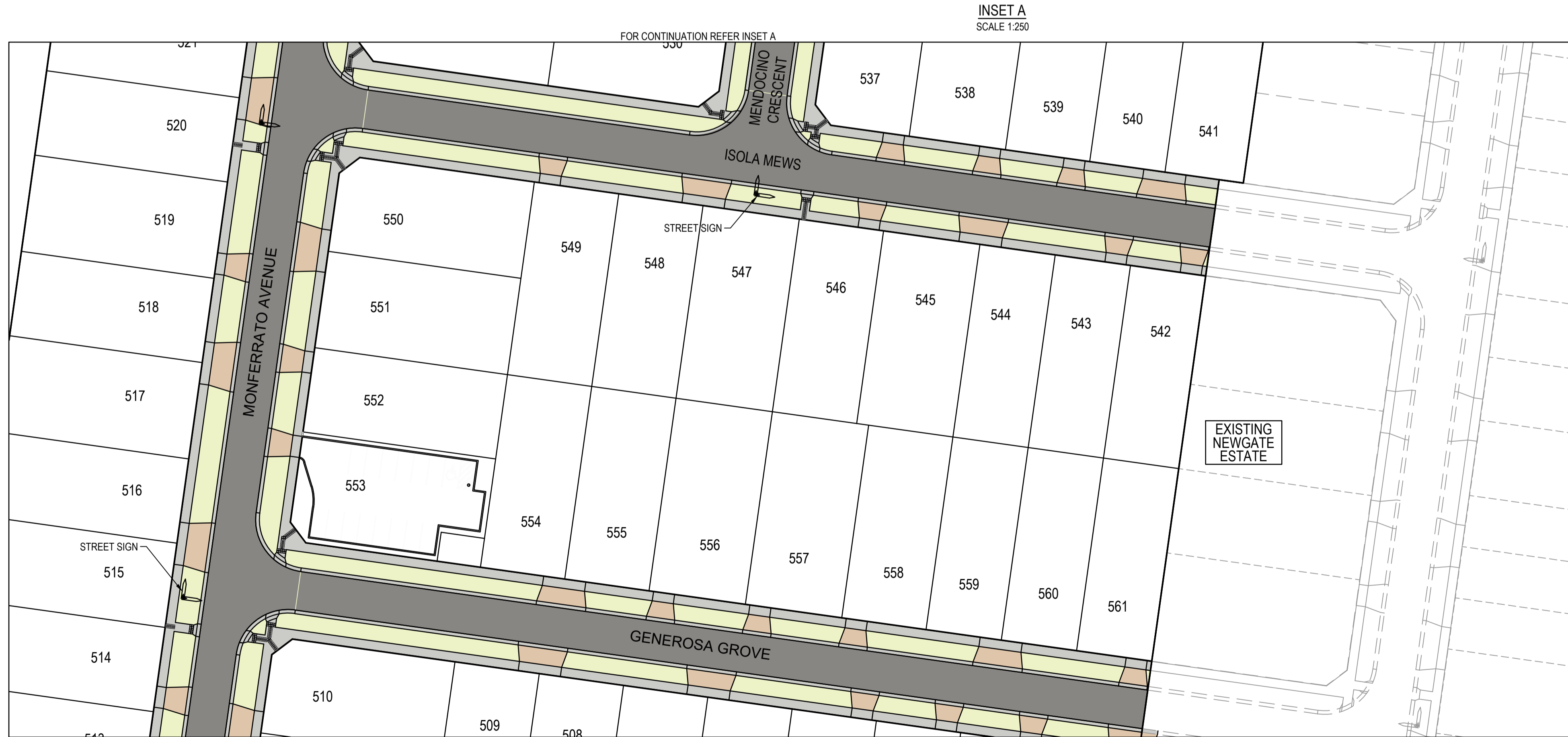
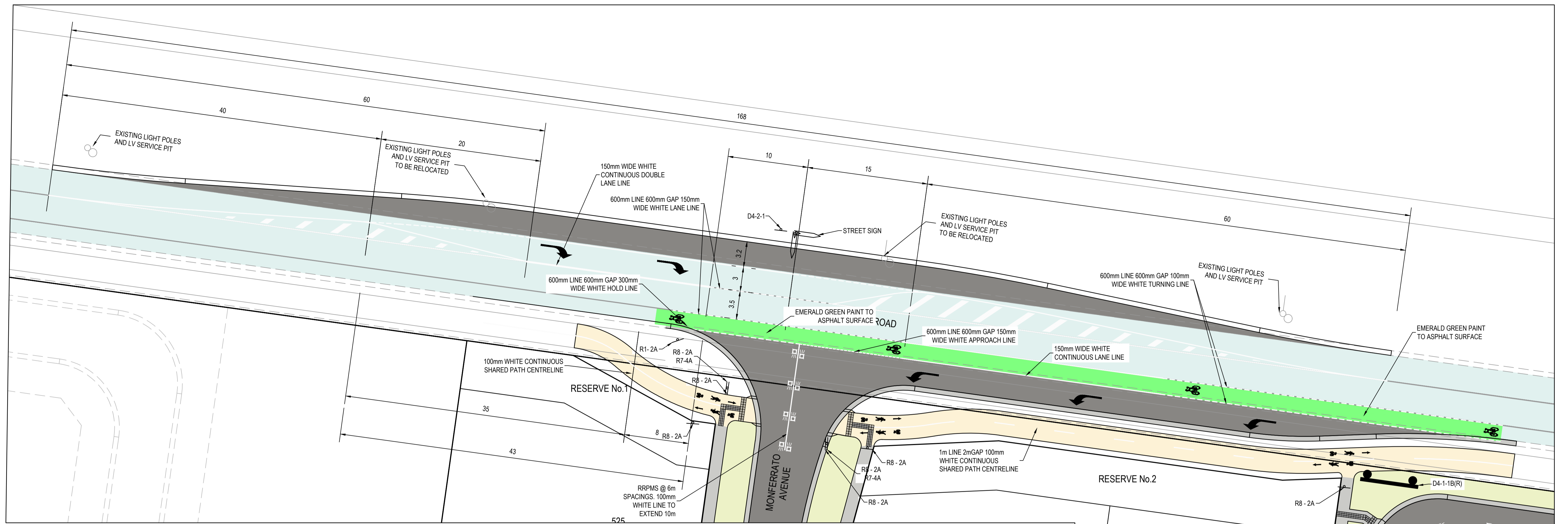


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ALAMORA
 Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 4
 & Pit Schedule

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-18	SHEET No. 18 of 21	REVISION 1
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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

NOTES
 1. 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 2. RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2.
 3. ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

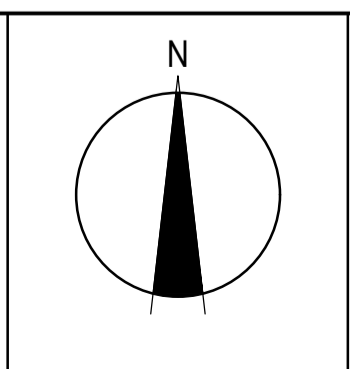
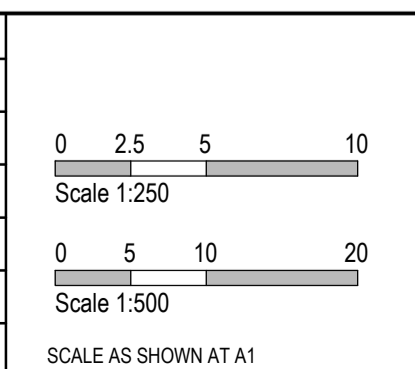
LEGEND - SIGN AND LINEMARKING	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	GIVE WAY
R1-2A	
	TWO WAY HAZARD MARKER
D4-2-1	
	HAZARD MARKER
D4-1-1B (R)	
	SHARED PATH
R8-2A	
	END
R7-4A	

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

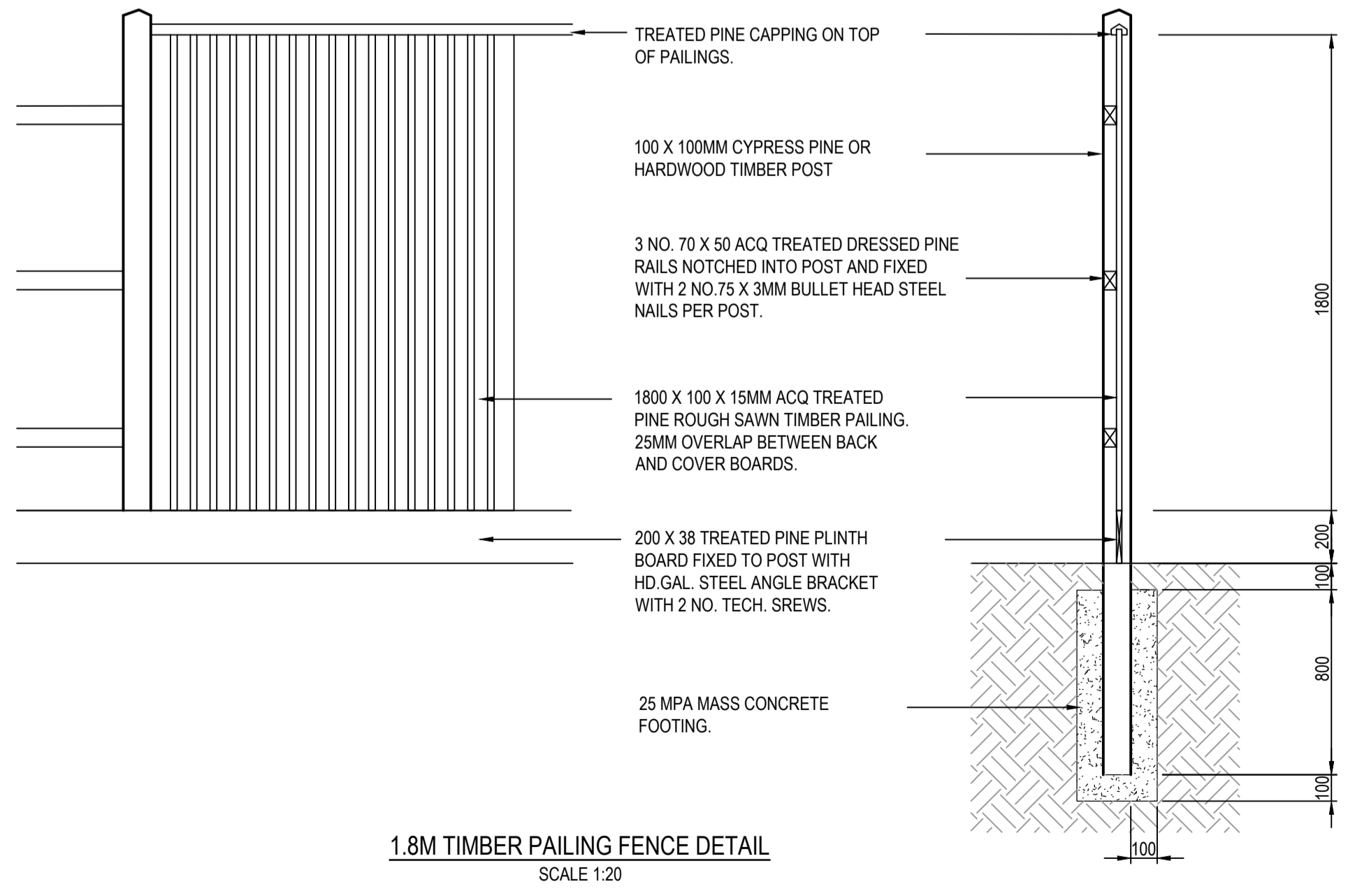
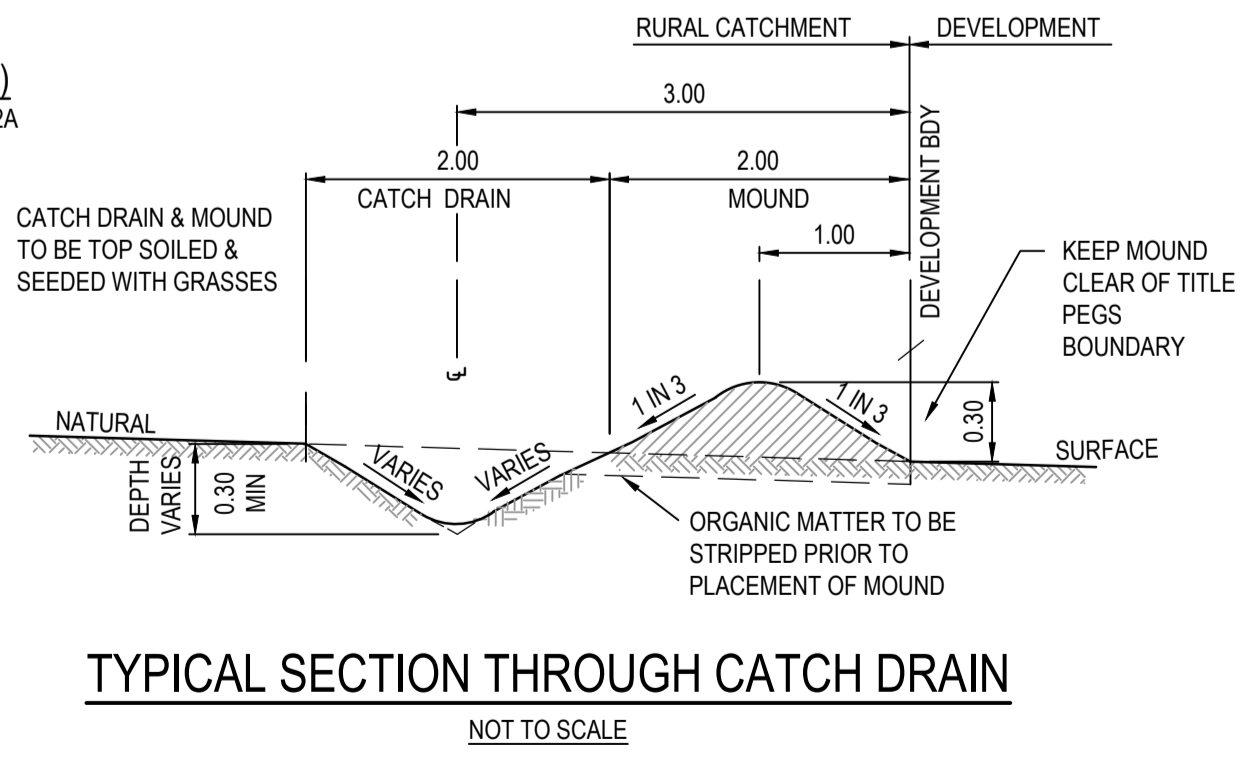
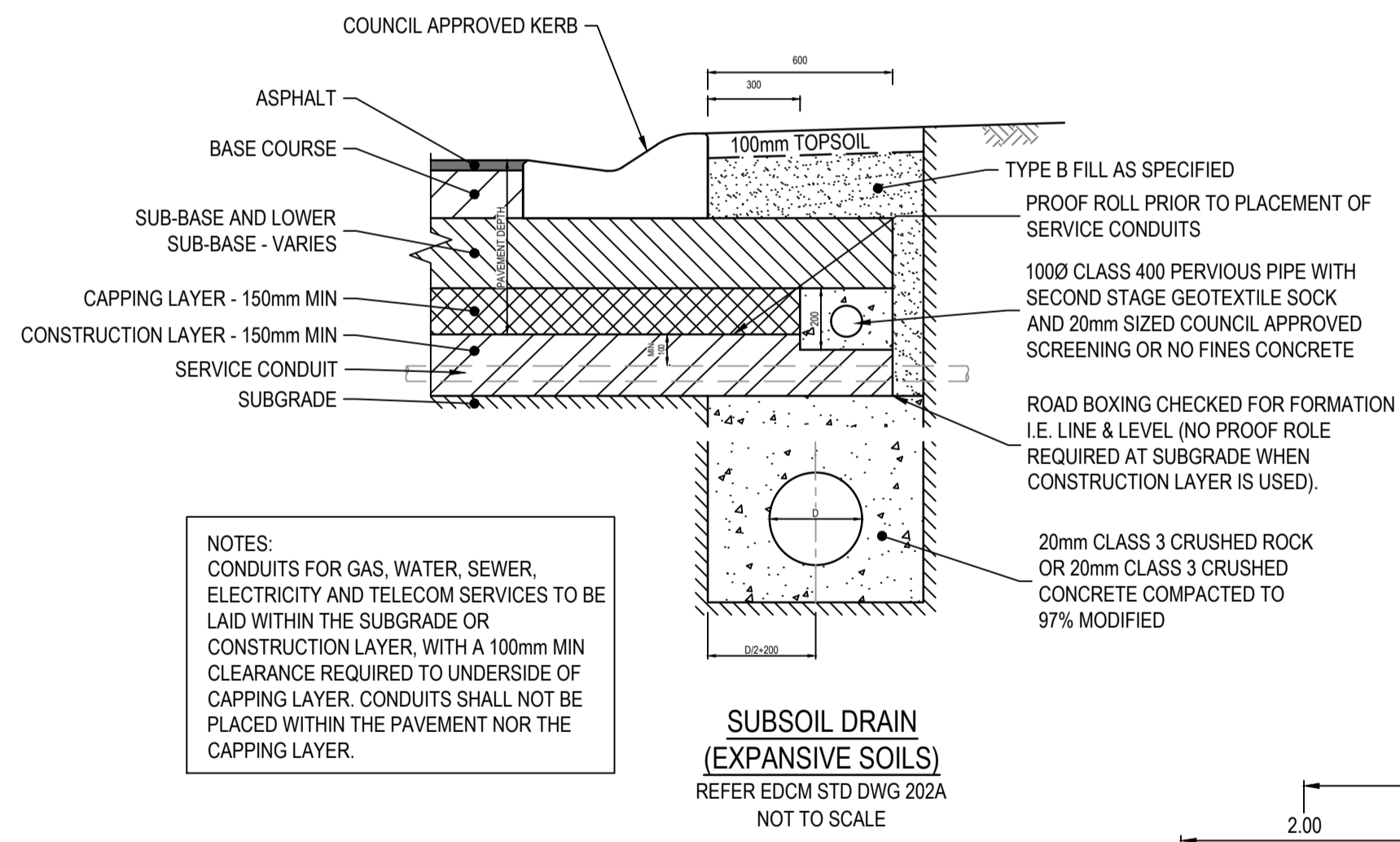
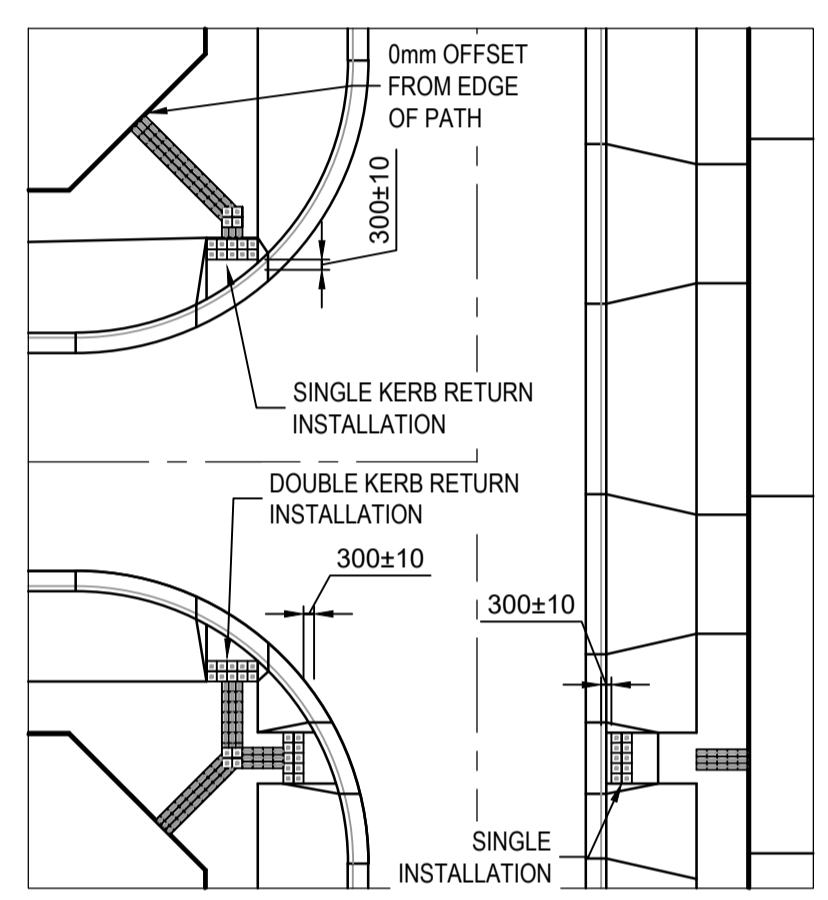
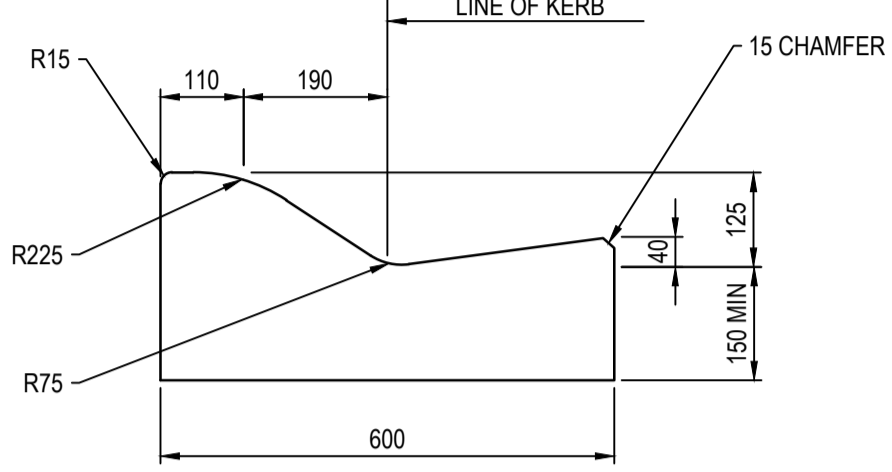
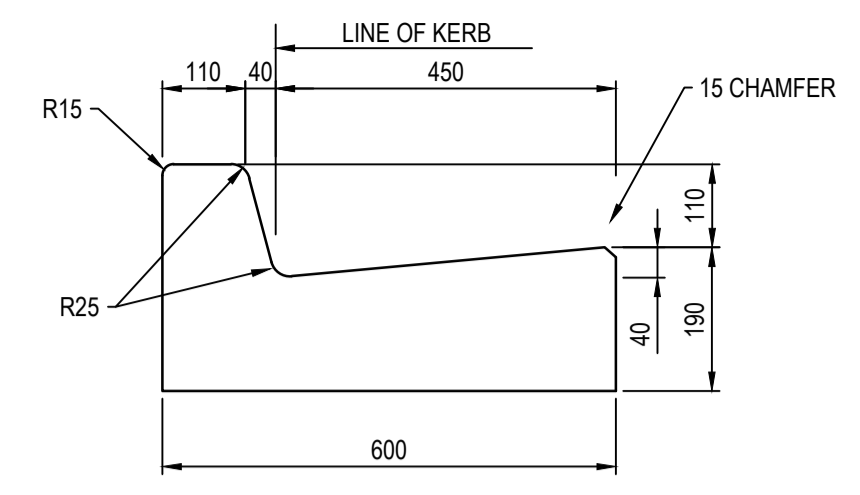
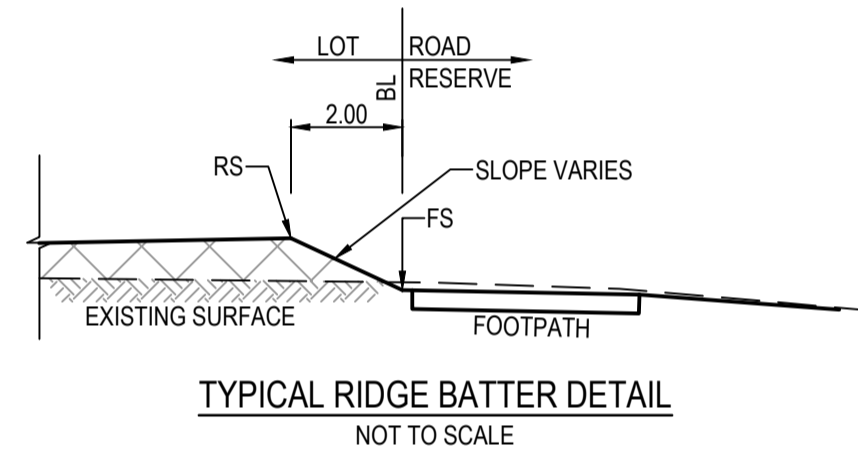
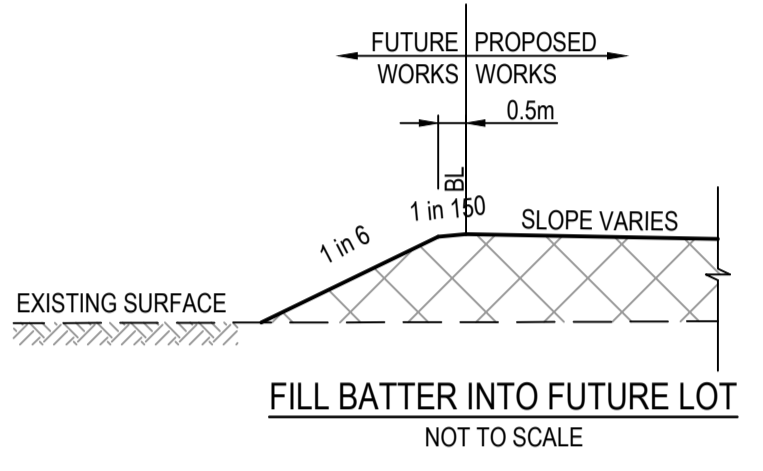
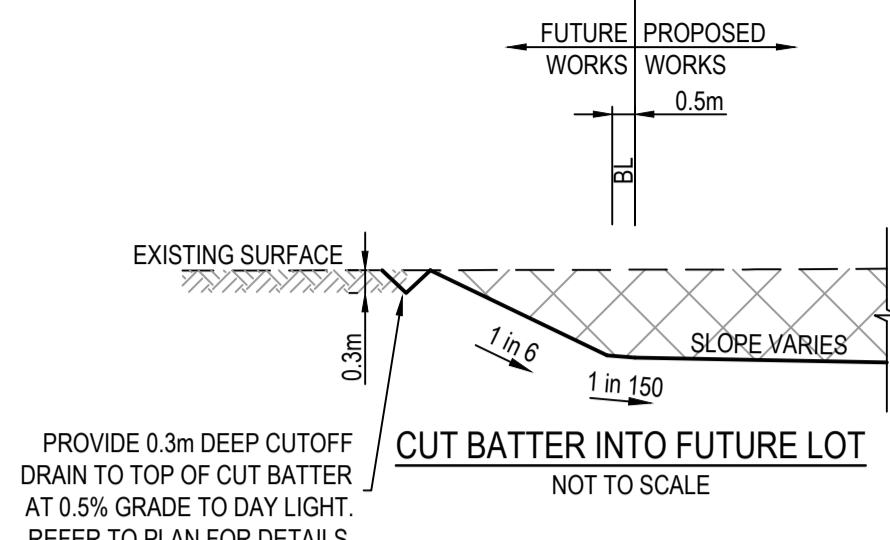


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Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Signage & Linemarking Plan

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-19	SHEET No. 19 of 21	REVISION 1
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ACCESS LANE - MENDOCINO CRESCENT & ISOLA MEWS PAVEMENT COMPOSITION		
PAVEMENT LAYER	DEPTH (mm)	MATERIAL
520mm DEEP PAVEMENT (INCLUDING 200mm DEEP CAPPING) AND 200mm SUBGRADE		
ASPHALT	WEARING COURSE	20 SIZE 7 TYPE L ASPHALT CLASS 320 BINDER
	INTERMEDIATE COURSE	30 SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	INTERLAYER	- SIZE 10 SAMI SEAL S18RF
	BONDING LAYER	- BITUMINOUS PRIME
BASE COURSE	140	SIZE 20 CLASS 2 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) AS1289, 5.2.1
SUBBASE COURSE	130	SIZE 20 CLASS 3 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
CAPPING	200	RIPPED ROCK (SELECT FILL) OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁹ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
SUBGRADE/CONSTRUCTION LAYER	200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁹ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

ACCESS PLACE - MONFERRATO AVENUE & GENEROSA GROVE PAVEMENT COMPOSITION		
PAVEMENT LAYER	DEPTH (mm)	MATERIAL
530mm DEEP PAVEMENT (INCLUDING 200mm DEEP CAPPING) AND 200mm SUBGRADE		
ASPHALT	WEARING COURSE	30 SIZE 10 TYPE L ASPHALT CLASS 320 BINDER
	INTERMEDIATE COURSE	30 SIZE 10 TYPE N ASPHALT CLASS 320 BINDER
	SAMI SEAL	- SIZE 10 SAMI SEAL S18RF
	BITUMINOUS PRIME	- BITUMINOUS PRIME
BASE COURSE	130	SIZE 20 CLASS 2 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (MODIFIED) AS1289, 5.2.1
SUBBASE COURSE	140	SIZE 20 CLASS 3 CRUSHED ROCK, COMPACTED TO A MINIMUM DENSITY RATIO OF 96% (MODIFIED) AS1289, 5.2.1
CAPPING	200	RIPPED ROCK (SELECT FILL) OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁹ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1
SUBGRADE/CONSTRUCTION LAYER	200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁹ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

CONNECTOR STREET - SAYERS ROAD PAVEMENT COMPOSITION		
PAVEMENT LAYER	DEPTH (mm)	MATERIAL
650mm DEEP PAVEMENT (INCLUDING 150mm DEEP CAPPING) AND 200mm SUBGRADE		
ASPHALT	WEARING COURSE	40 SIZE 14 TYPE V CLASS 320 ASPHALT
	INTERMEDIATE COURSE	70 SIZE 20 TYPE SI CLASS 320 ASPHALT
	BASE COURSE	80 SIZE 20 TYPE SI CLASS 320 ASPHALT
	SAMI SEAL	- SIZE 10 SAMI SEAL S18RF
	BITUMINOUS PRIME	- BITUMINOUS PRIME
UPPER SUBBASE COURSE	160	SIZE 20 CLASS 3 CEMENT TREATED CRUSHED ROCK COMPACTED TO NOT LESS THAN 98% (CHARACTERISTIC) OF MODIFIED COMPACTION AS1289.5.2.1
LOWER SUBBASE COURSE	150	SIZE 40 CLASS 4 CRUSHED ROCK, COMPACTED TO NOT LESS THAN 98% (CHARACTERISTIC) OF MODIFIED COMPACTION AS 1289.5.2.1
CAPPING	150	RIPPED ROCK, PERCENTAGE SWELL < 1.5%, CBR>10%, COEFFICIENT OF PERMEABILITY k < 1x10 ⁻⁹ m/s OR EXISTING SUBGRADE TO BE STABILIZED WITH MINIMUM 3% LIME (MASS) TO MINIMUM DEPTH OF 300mm (CBR > 10%) & COEFFICIENT OF PERMEABILITY k < 1x10 ⁻⁹ m/s
SUBGRADE/CONSTRUCTION LAYER	200	RIPPED ROCK OR STABILISED CLAY MEETING THE FOLLOWING PROPERTIES: CBR >=7%, PERMEABILITY k < 1x10 ⁻⁹ m/s AND SWELL < 1.5% MATERIAL, COMPACTED TO A MINIMUM DENSITY RATIO 98% (STANDARD) AS1289, 5.1.1

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

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OH&S Management - AS/NZS 4500
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Environmental Management ISO 14001
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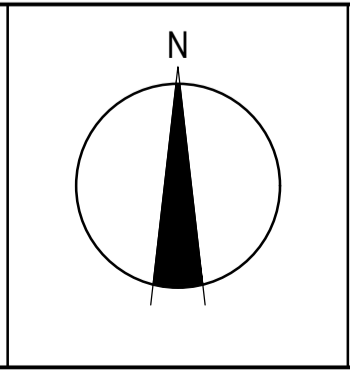
TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

0 0.1 0.2 0.4
Scale 1:10

0 0.2 0.4 0.8
Scale 1:20

0 10 20 40
Scale 1:1000

SCALE AS SHOWN AT 1



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ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
Wyndham City Council
Road and Drainage
Pavement Details

MELBOURNE REF 234 D4	PROJECT / DRAWING No. 2070E-A05-20	SHEET No. 20 of 21	REVISION 1
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Project Name: Alamora Stage 5	Design Package: 2070E-A05
Date: 30/08/2019	

PHASE	DISCIPLINE CODE	RISK REGISTER - CONSTRUCTION / OPERATIONS / MAINTENANCE			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	Score remaining residual risk				
		POTENTIAL RISK	RISK OWNER	POTENTIAL CONSEQUENCES				Residual Risk Likelihood (1-5)	Residual Risk Consequence (1-5)	Residual Risk Rating		
		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
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
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
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
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
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
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
		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
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
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
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
		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
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
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
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
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
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
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
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
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
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
		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
		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
		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
		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

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The purpose of these as-constructed plans is to update the design drawings to show significant changes which occurred during construction. Note that the levels shown on these plans are design levels, and have not been verified by survey. All information shown on these plans should be verified on site. SMEC Australia Pty Ltd accept no responsibility for loss or damages resulting from the inappropriate usage of these plans.

AS CONSTRUCTED

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

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

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TITLE	NAME
DRAFTER	K.McCoy
DESIGNER	L.Fang
CHECKED	N.Freeman
AUTHORISED	C.Sexton
REFERENCE No. 1	
REFERENCE No. 2	

SCALE AS SHOWN AT A1

SMEC

Member of the Surlana Jurong Group

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ALAMORA
Tarnait

Alamora - Stage 5, Sayers Road, Tarnait
 Wyndham City Council
 Road and Drainage
 Safety In Design

MELWAYS REF 234 D4	PROJECT / DRAWING No. 2070E-A05-85	SHEET No. 21 of 21	REVISION 0
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