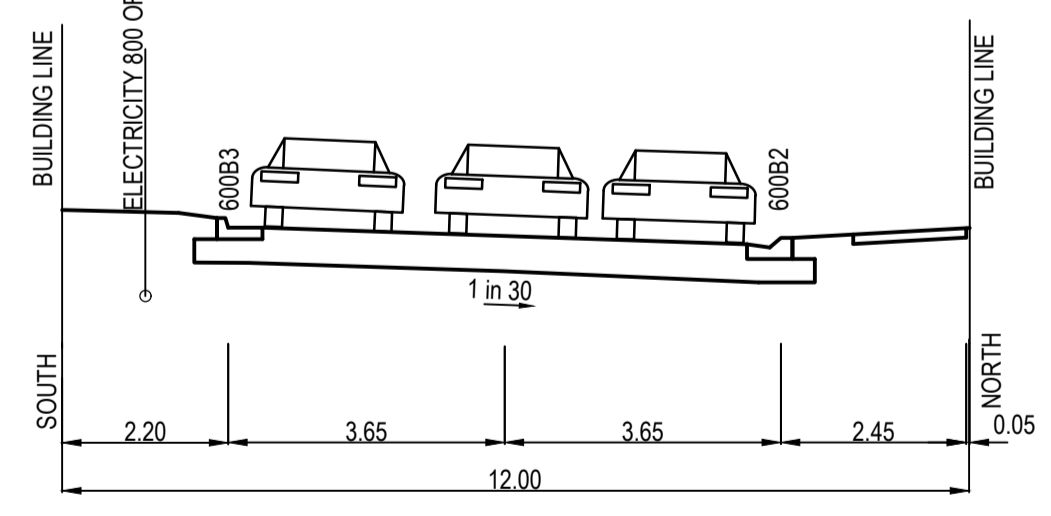
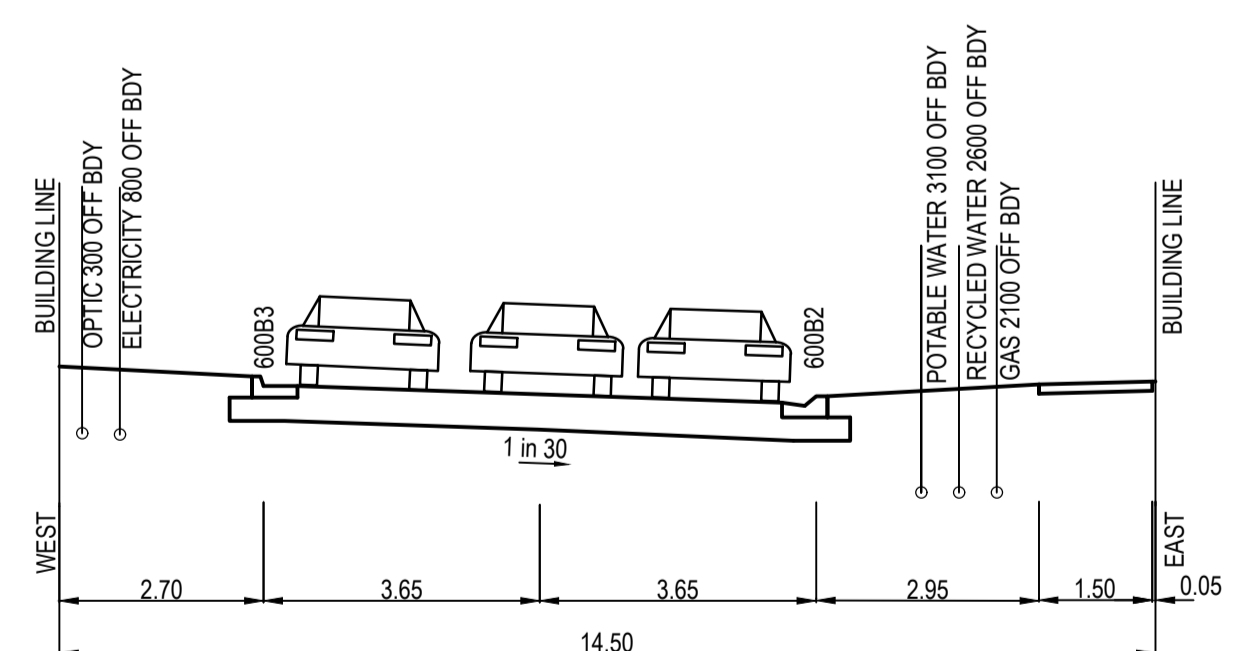
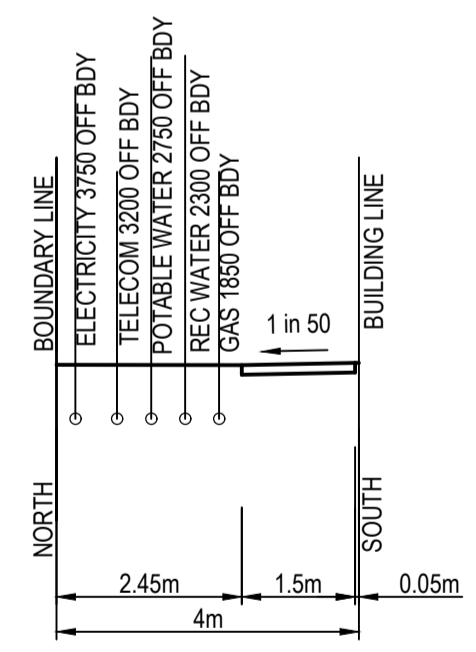
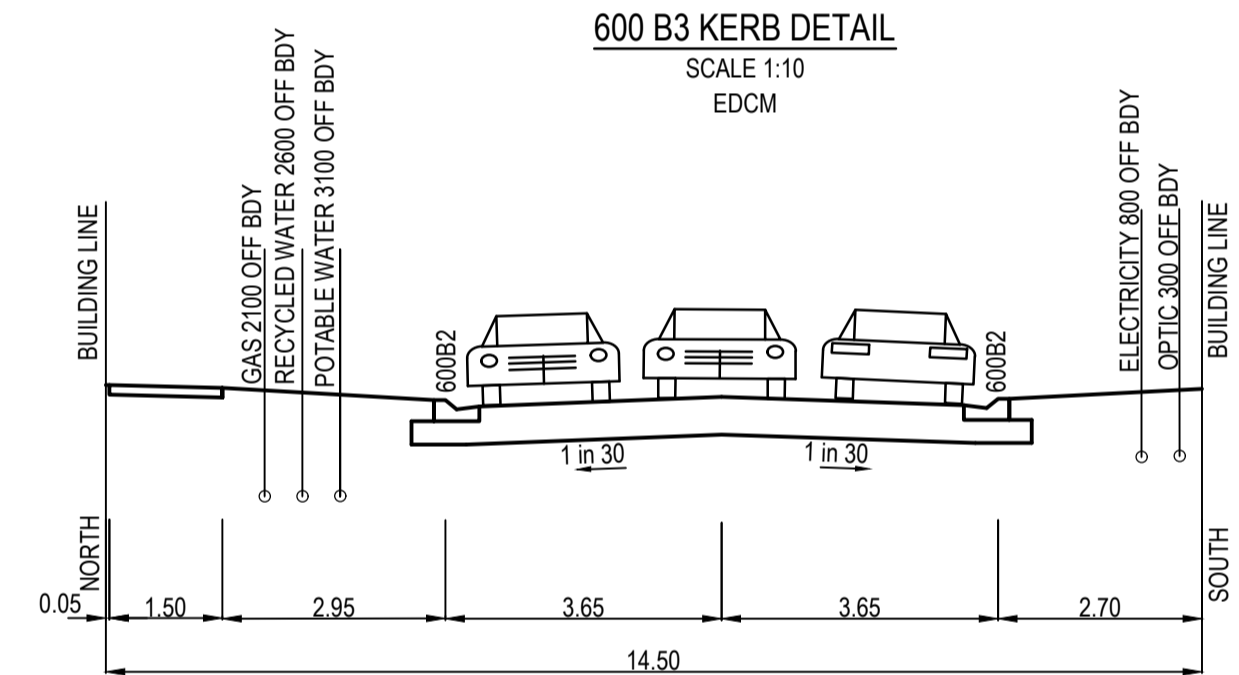
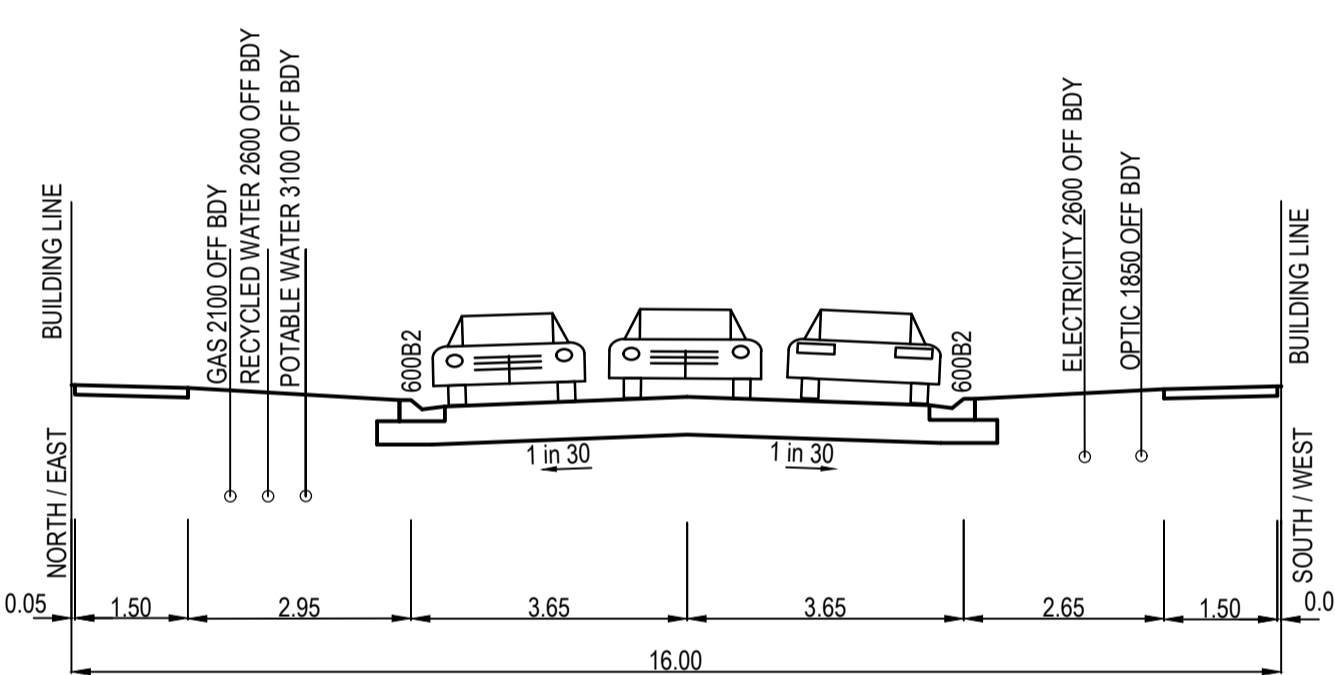
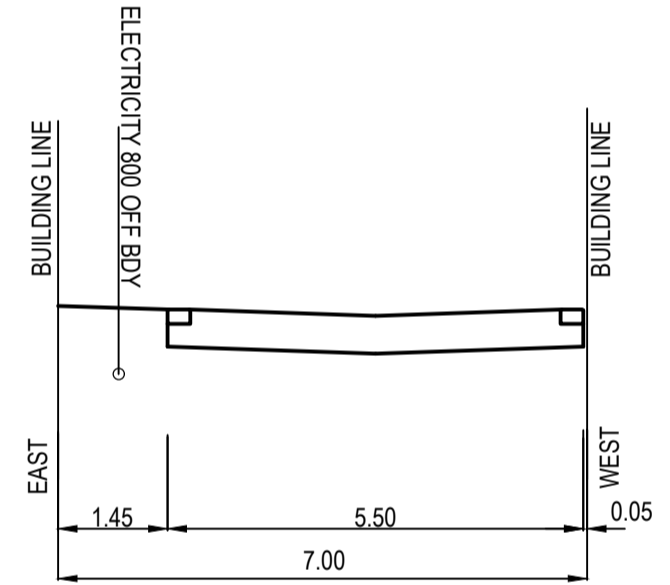
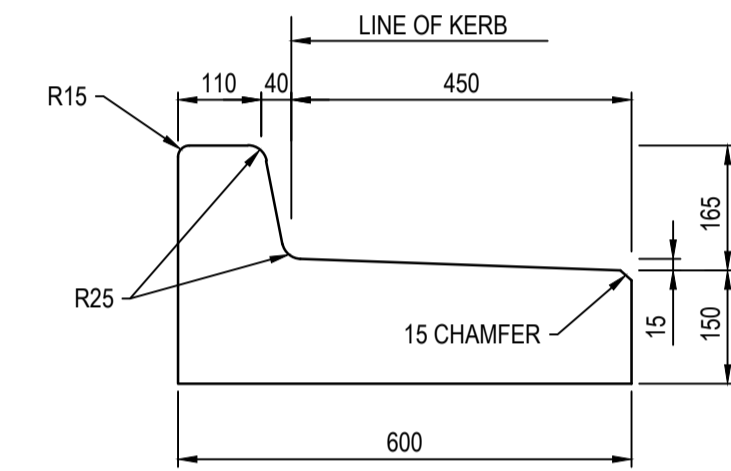
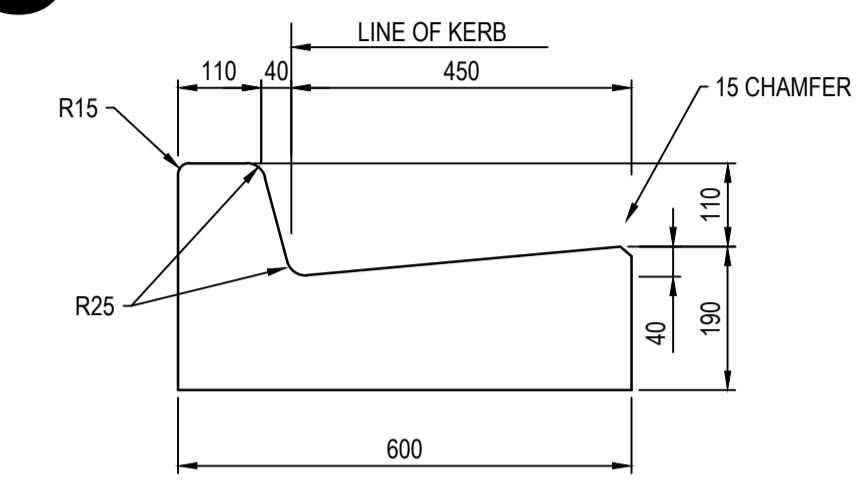
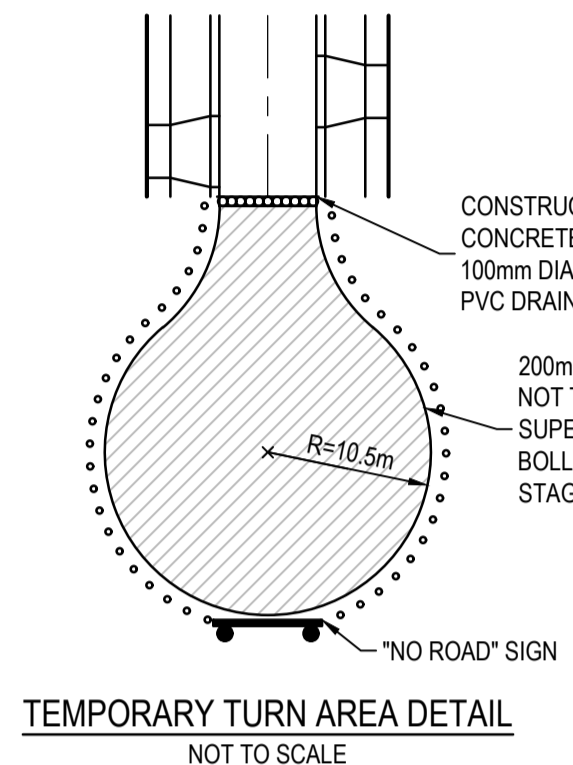
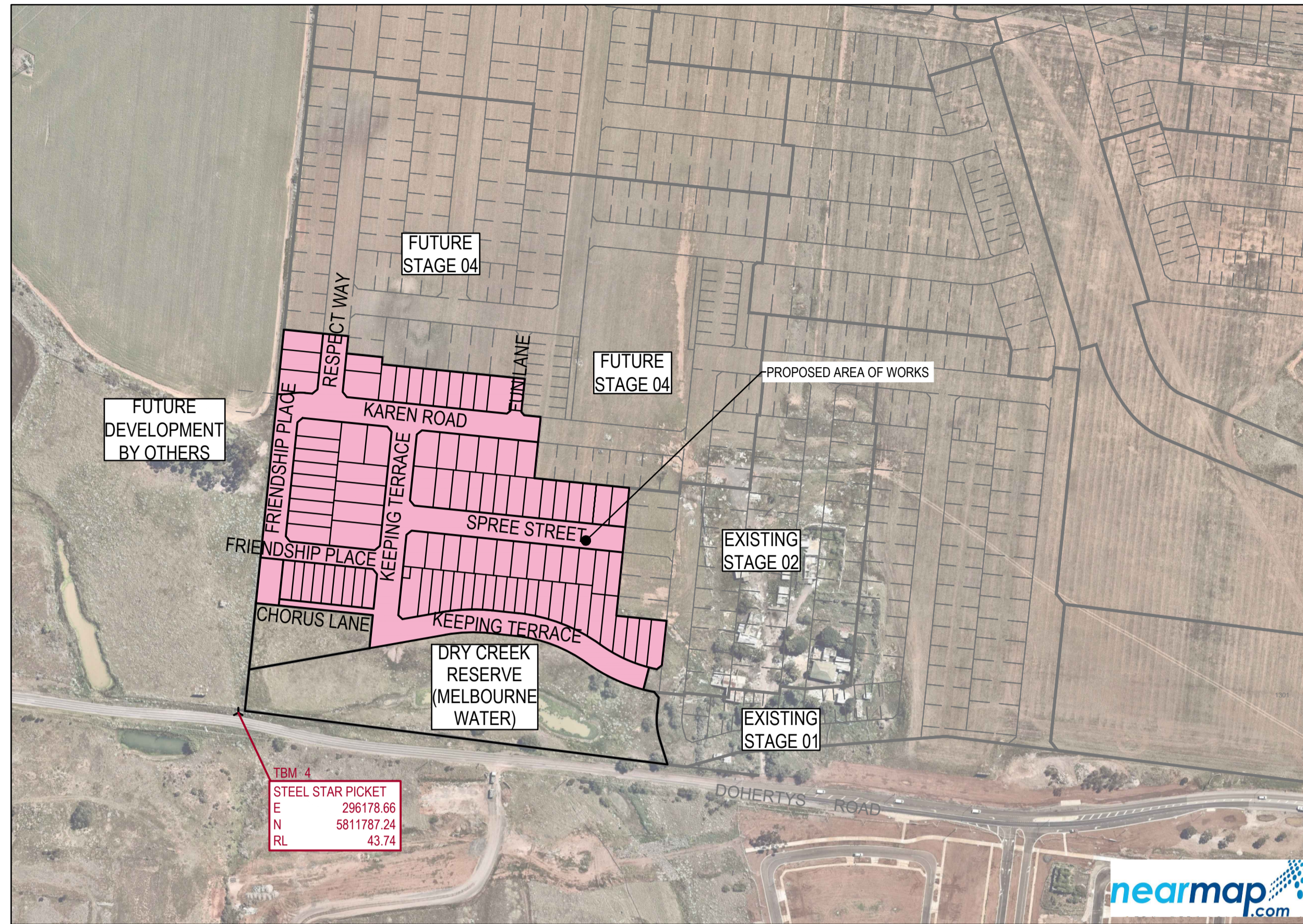


# Marigold Stage 3



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TEMPORARY BENCH MARK TABLE				
NAME	EASTING (M)	NORTHING (M)	REDUCED LEVEL (M)	DESCRIPTION
T.B.M 1	296268.96	5812551.29	50.83	STAR PICKET
T.B.M 2	297060.94	5812470.05	50.25	STAR PICKET
T.B.M 3	296997.71	5811695.27	46.67	NAIL IN ROUNDABOUT
T.B.M 4	296178.66	5811787.24	43.74	STAR PICKET

- ### 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 COURTHOUSES, 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 EDMC 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 EDMC 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 710&722).
  - 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 SOIL TESTS TO THE REQUIREMENTS OF APPENDIX B AS SPECIFIED IN THE AUSTRALIAN STANDARD AS 3798 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.
  - BACKFILLING OF TRENCHES WHERE DRAINAGE AND SEWERAGE ARE IN CLOSE PROXIMITY ARE TO BE BACKFILLED AS PER WYNDHAM CITY COUNCIL STANDARD DRAWING SDB-10.
  - ALL SERVICING TRENCHES UNDER ROADS, FOOTPATHS, DRIVEWAYS, PARKING BAYS ETC. ARE TO BE BACKFILLED WITH CLASS 2 F.C.R.
  - ALL HOUSE DRAIN CONNECTIONS ARE TO BE LOCATED NO CLOSER THAN 5.00m FROM THE SIDE BOUNDARY.
  - INVERT OF PROPERTY INLETS TO BE 500mm MINIMUM BELOW FINISHED SURFACE UNLESS NOTED OTHERWISE.
  - VEHICLE CROSSINGS TO BE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWINGS EDMC 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 0.2m 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 EDMC 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 OFF SITE.
  - INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRPM) ON ROAD CENTRELINE AND "GROUND BALL" MARKER POST TO INDICATE LOCATION OF FIRELUMP.
  - 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 862M
  - TOTAL LENGTH OF DRAINS CONSTRUCTED IS 995M

- ### 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 SUBJECT TO CONSTRUCTION TRAFFIC LOADING DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPILED 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.

**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. 2360E-03-85  
**ASSESS THE RISK - STAY SAFE**

**WARNING**  
BEWARE OF UNDERGROUND SERVICES  
The locations of underground services are approximate only and their exact position should be proven on site. No guarantee is given that all existing services are shown. Locate all underground services before commencement of works  
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

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	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

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Scale 1:2500  
SCALE AS SHOWN AT A1

**SMEC**  
Member of the Surlana Jurong Group  
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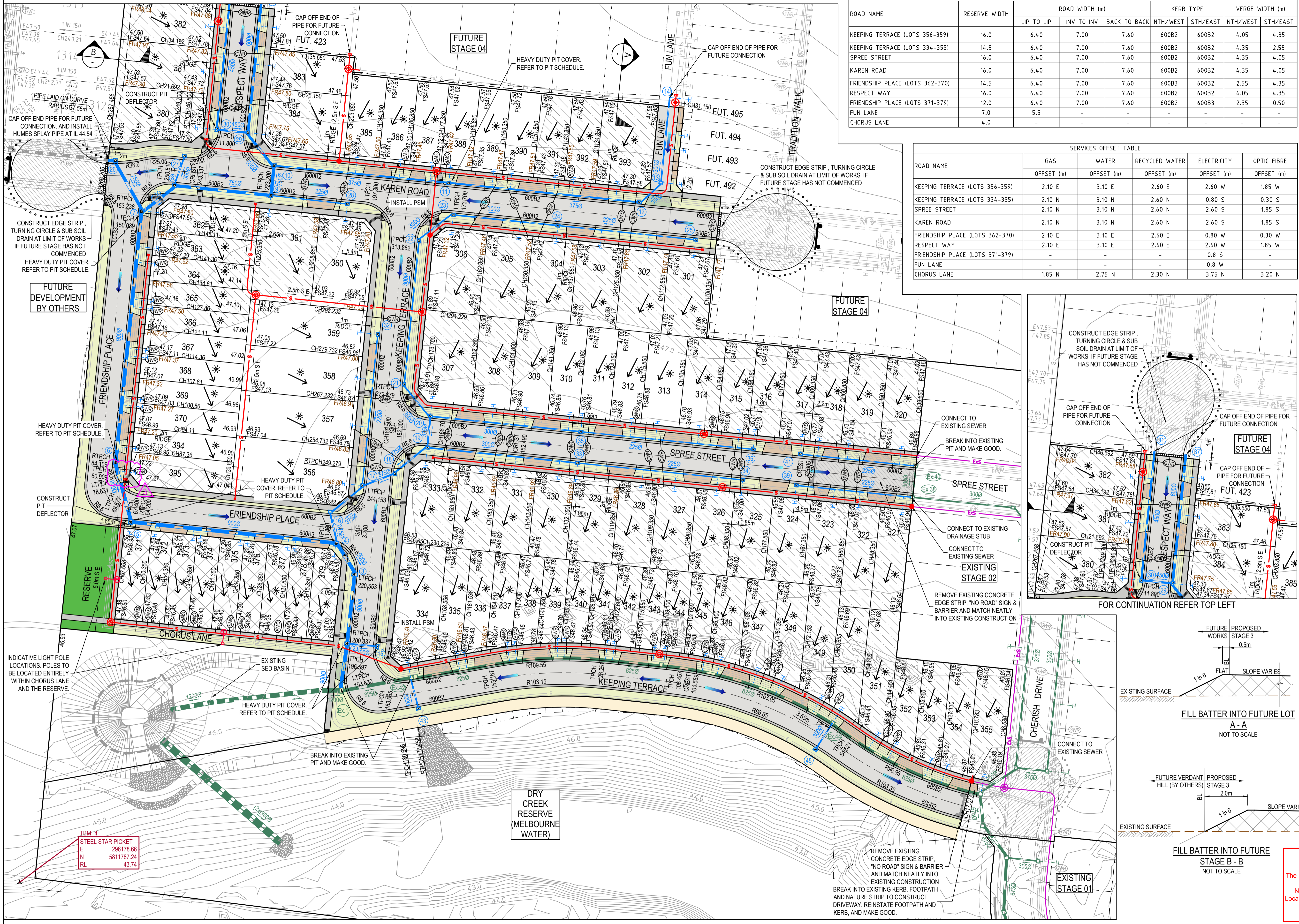
**GROWLAND**

Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Cover Plan

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-01	SHEET No. 01 of 23	REVISION 0
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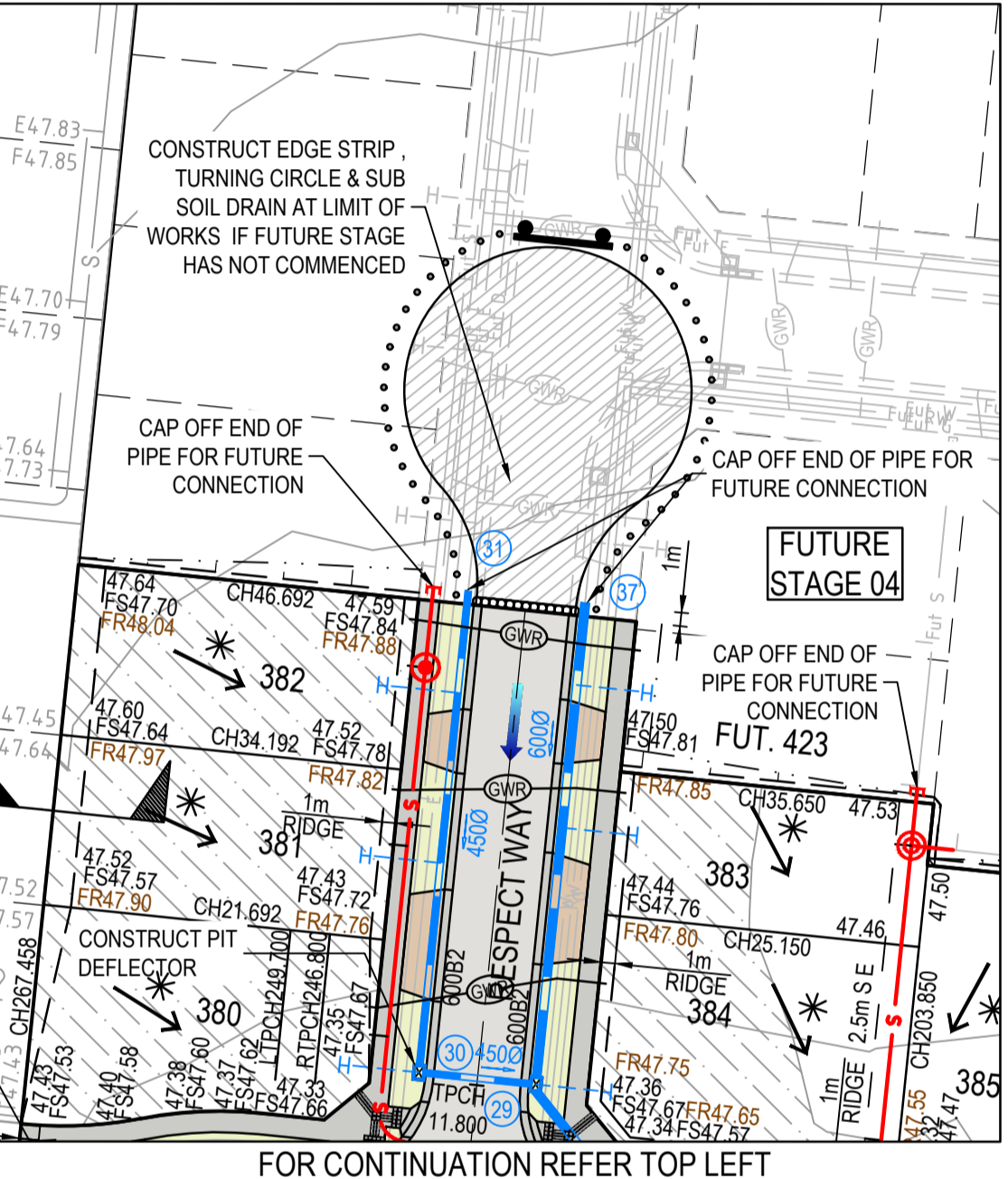


ROAD NAME	RESERVE WIDTH	ROAD WIDTH (m)			KERB TYPE		VERGE WIDTH (m)	
		LIP TO LIP	INV TO INV	BACK TO BACK	NTH/WEST	STH/EAST	NTH/WEST	STH/EAST
KEEPING TERRACE (LOTS 356-359)	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35
KEEPING TERRACE (LOTS 334-355)	14.5	6.40	7.00	7.60	600B2	600B2	4.35	2.55
SPREE STREET	16.0	6.40	7.00	7.60	600B2	600B2	4.35	4.05
KAREN ROAD	16.0	6.40	7.00	7.60	600B2	600B2	4.35	4.05
FRIENDSHIP PLACE (LOTS 362-370)	14.5	6.40	7.00	7.60	600B3	600B2	2.55	4.35
RESPECT WAY	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35
FRIENDSHIP PLACE (LOTS 371-379)	12.0	6.40	7.00	7.60	600B2	600B3	2.35	0.50
FUN LANE	7.0	5.5	-	-	-	-	-	-
CHORUS LANE	4.0	-	-	-	-	-	-	-

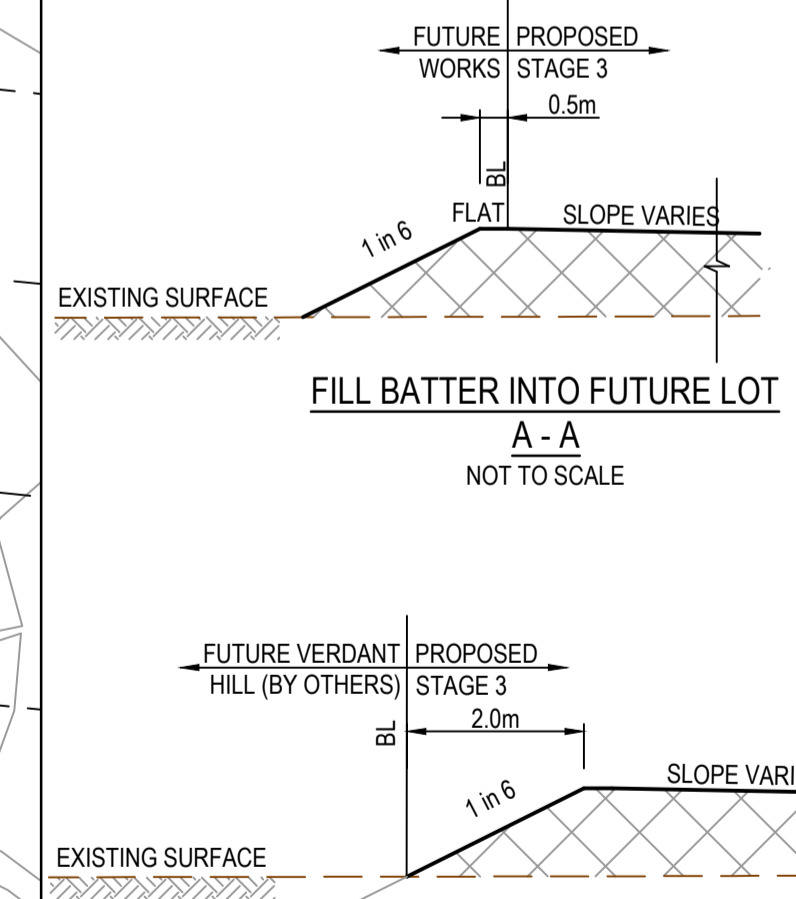
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	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
KEEPING TERRACE (LOTS 356-359)	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
KEEPING TERRACE (LOTS 334-355)	2.10 N	3.10 N	2.60 N	0.80 S	0.30 S
SPREE STREET	2.10 N	3.10 N	2.60 N	2.60 S	1.85 S
KAREN ROAD	2.10 N	3.10 N	2.60 N	2.60 S	1.85 S
FRIENDSHIP PLACE (LOTS 362-370)	2.10 E	3.10 E	2.60 E	0.80 W	0.30 W
RESPECT WAY	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
FRIENDSHIP PLACE (LOTS 371-379)	-	-	-	0.8 S	-
FUN LANE	-	-	-	0.8 W	-
CHORUS LANE	1.85 N	2.75 N	2.30 N	3.75 N	3.20 N

**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
- 141.34 EXISTING SURFACE LEVEL
- FS140.35 FINISHED BUILDING LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- CH270.00 CHAINAGE
- TW159.60 TOP OF RETAINING WALL LEVEL
- BW159.00 BOTTOM OF RETAINING WALL LEVEL
- EXISTING RETAINING WALL
- RETAINING WALL
- FUTURE RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EXISTING STRUCTURAL FILL > 200mm DEEP
- CUT > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
- EDGE STRIP, SUBSOIL DRAIN, "NO ROAD" SIGN & BARRIER
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH
- PROPOSED INDUSTRIAL DRIVEWAY
- PROPOSED SHARED FOOTPATH
- PROPOSED ROAD PAVING
- EXISTING ROAD PAVING



FOR CONTINUATION REFER LEFT



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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS
1	27.11.19	FRIENDSHIP PLACE CHAINAGES UPDATED AND PIT 6 HD PIT LID	SH/JC	BS
2	10.01.20	LOTS 363 AND 364 HD LOCATION CHANGE	SH/JC	BS
3	06.02.20	LOT 395 HOUSE DRAIN LOCATION CHANGED	SH/JC	BS

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

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DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



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**GROWLAND**

Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Layout Plan

**ISSUED FOR CONSTRUCTION**



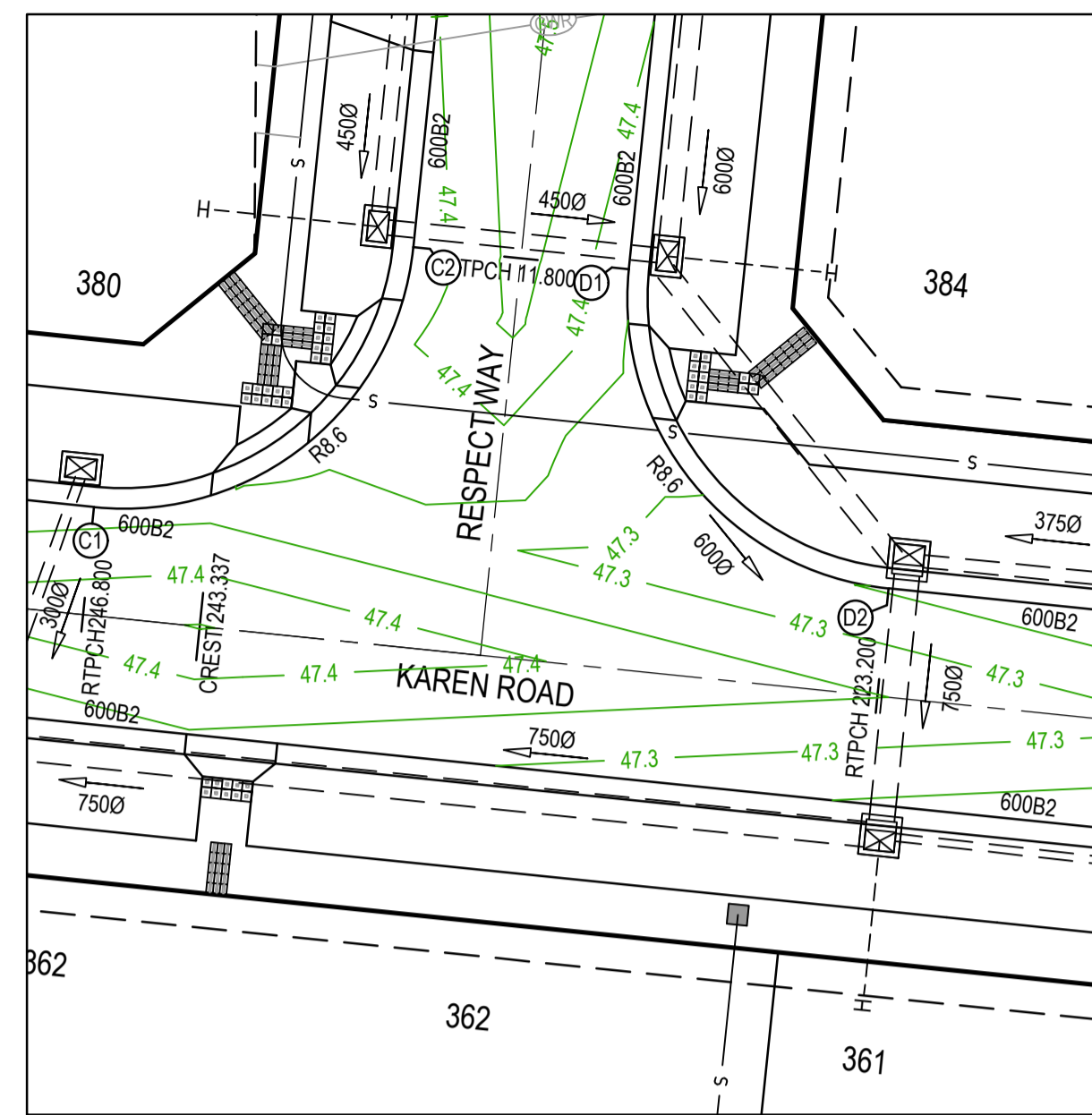
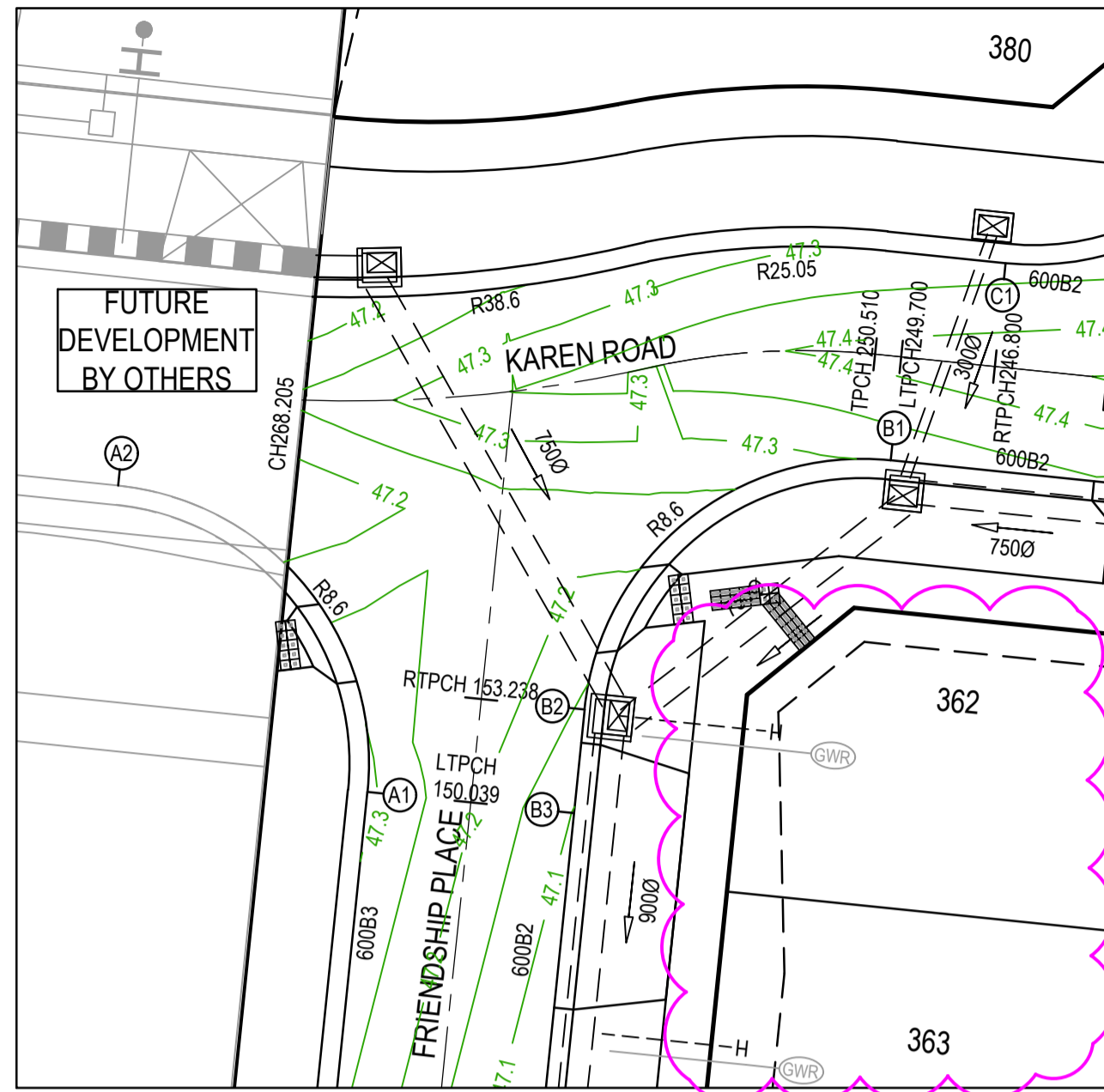
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2	10.01.20	LOTS 363 AND 364 HD LOCATION CHANGE	SH/JC	BS
3	06.02.20	LOT 395 HOUSE DRAIN LOCATION CHANGED	SH/JC	BS

SCALE AS SHOWN AT A1

MELWAYS REF: 359 F9  
 PROJECT / DRAWING No: 2360E-03-02  
 SHEET No: 02 of 23  
 REVISION: 3

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Alignment A

Point no	Easting	Northing	RL
A1	296204.477	5811968.405	47.310
A2	296196.798	5811977.836	47.080

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
A1 - A2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.235

Alignment B

Point no	Easting	Northing	RL
B1	296220.601	5811978.615	47.314
B2	296211.170	5811970.936	47.139
B3	296210.844	5811967.753	47.098

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
B1 - B2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.226

Alignment C

Point no	Easting	Northing	RL
C1	296224.138	5811984.686	47.329
C2	296233.570	5811992.366	47.363

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
C1 - C2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.362

Alignment D

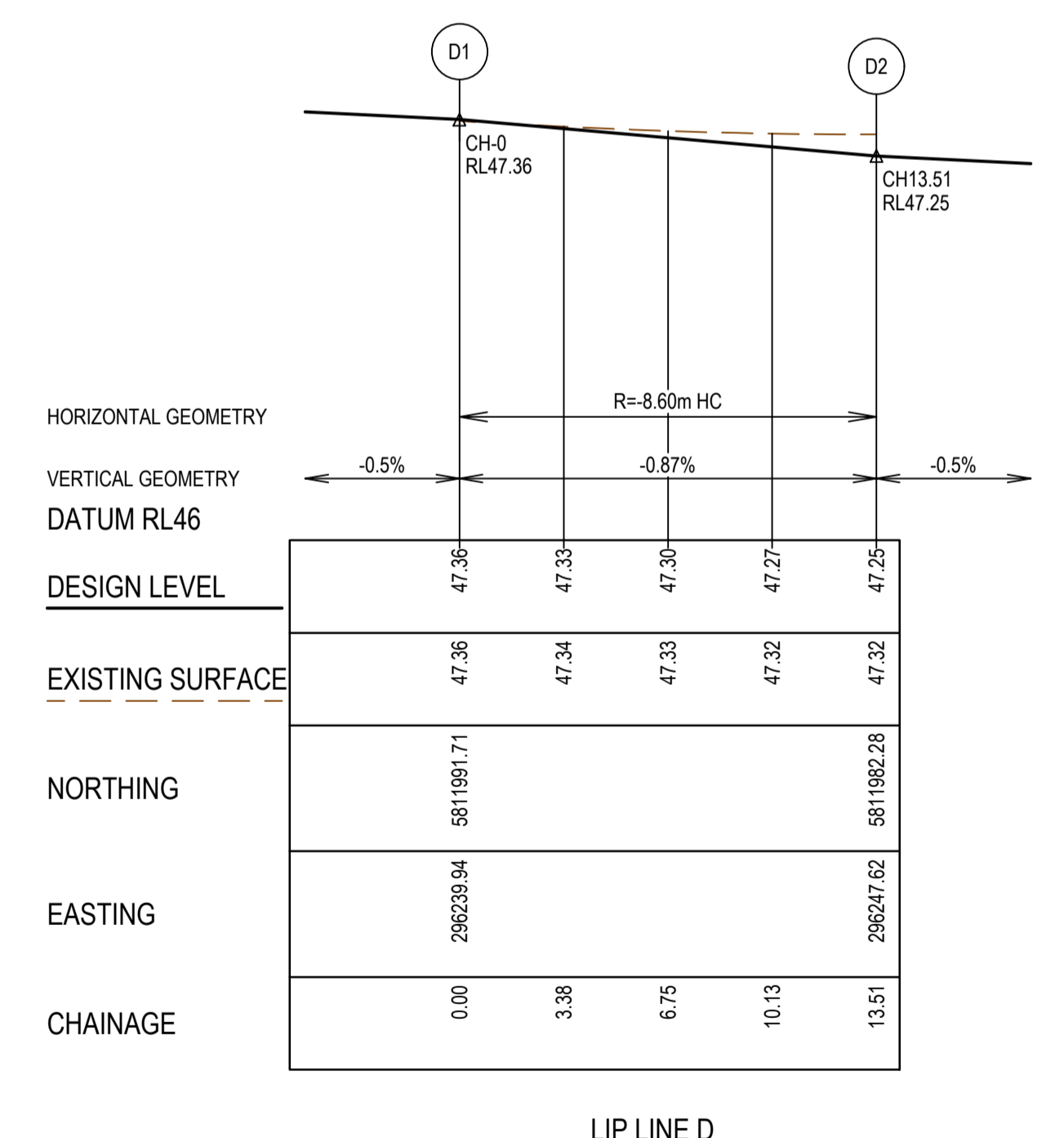
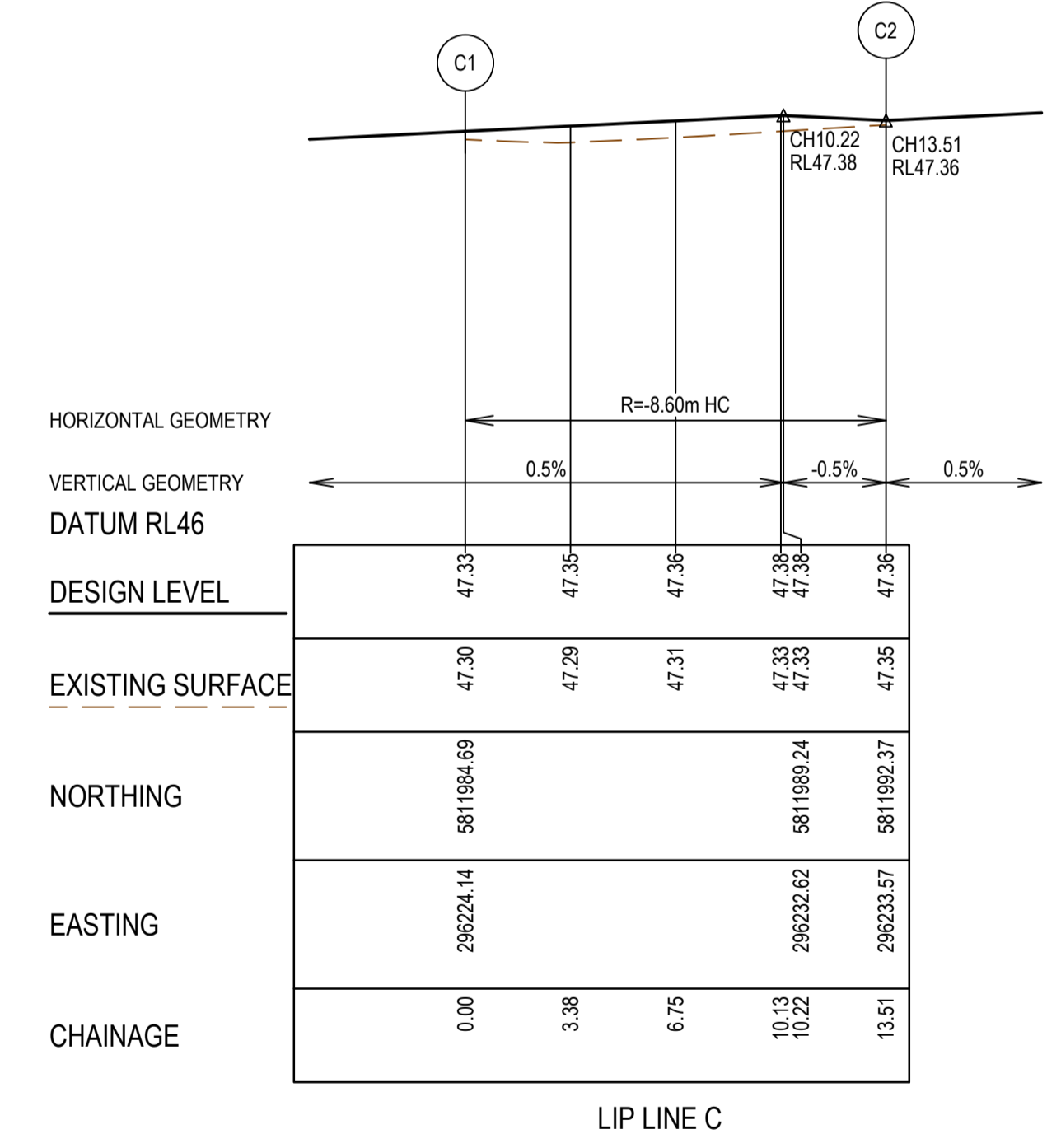
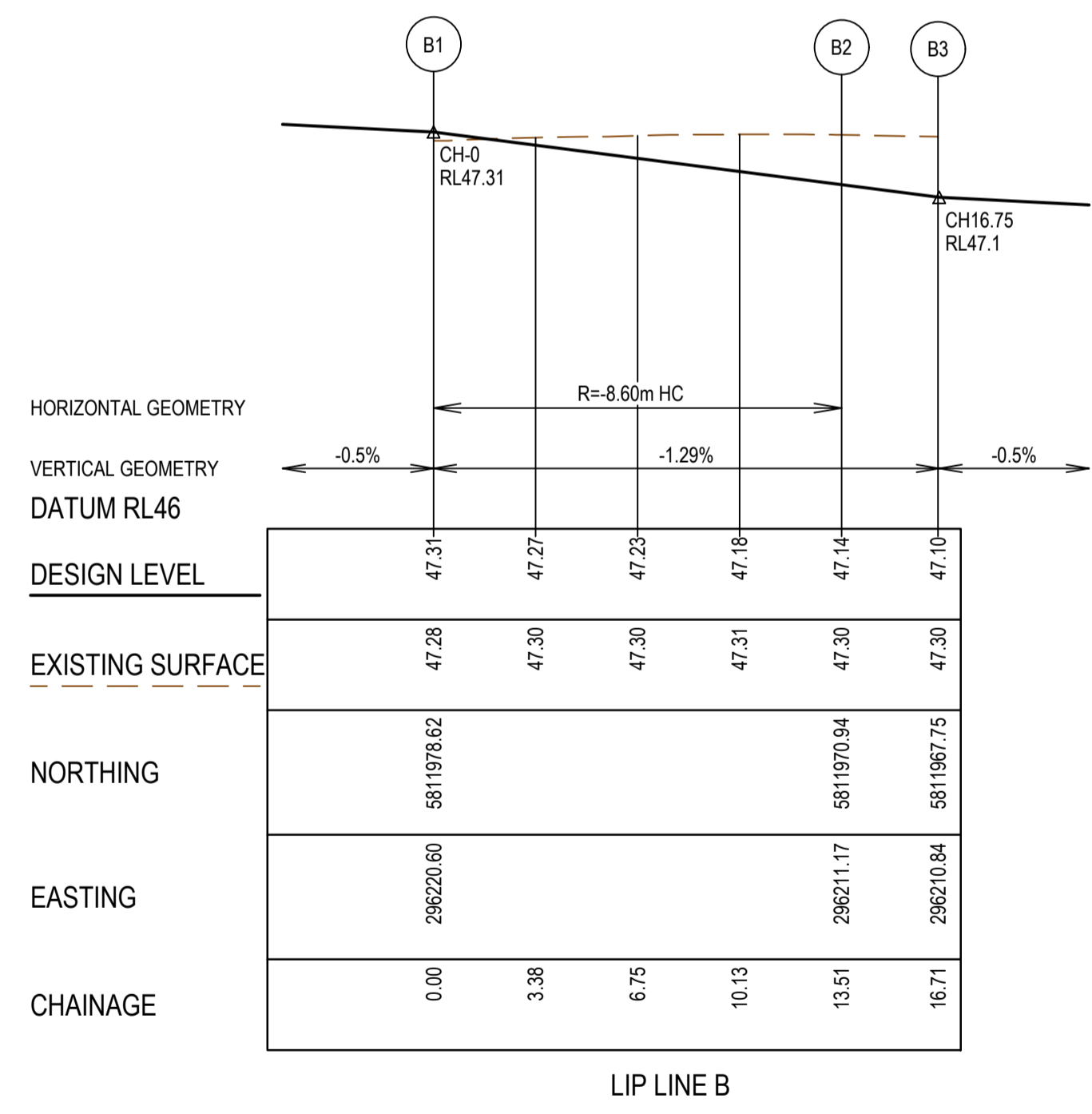
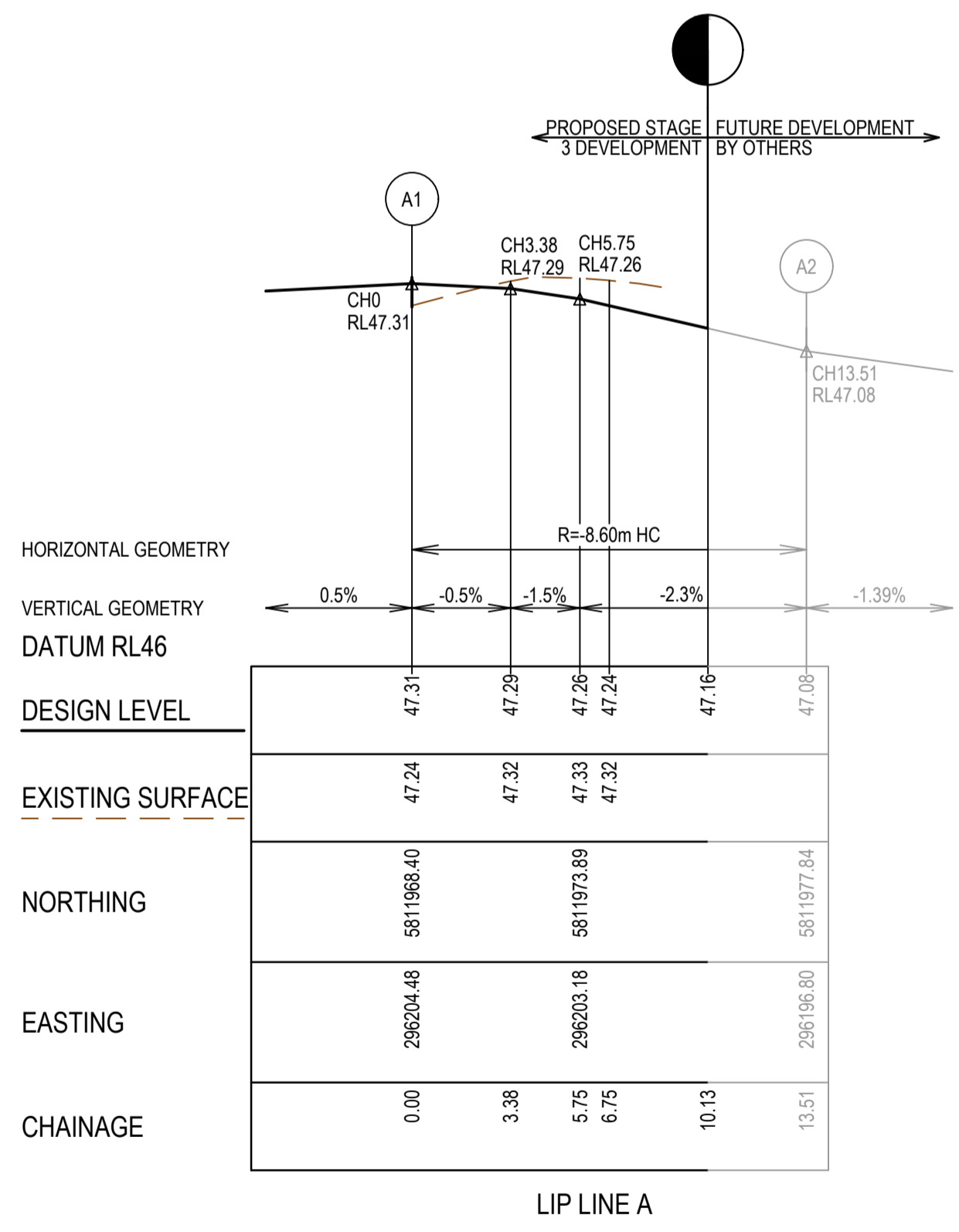
Point no	Easting	Northing	RL
D1	296239.936	5811991.714	47.363
D2	296247.615	5811982.282	47.245

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
D1 - D2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.304

**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

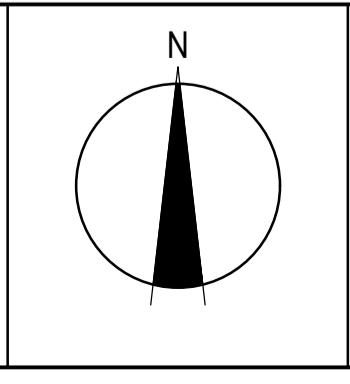
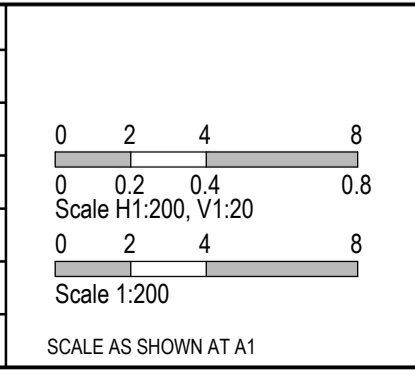


- NOTES**
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  - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
  - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
  - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO BE PROVIDED AS PART OF LANDSCAPE WORKS.
  - SHARE PATH THROUGH CREEK CORRIDOR TO FORM PART OF LANDSCAPE WORKS.

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS
1	10.01.20	FRIENDSHIP PLACE LOT MIX CHANGE	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



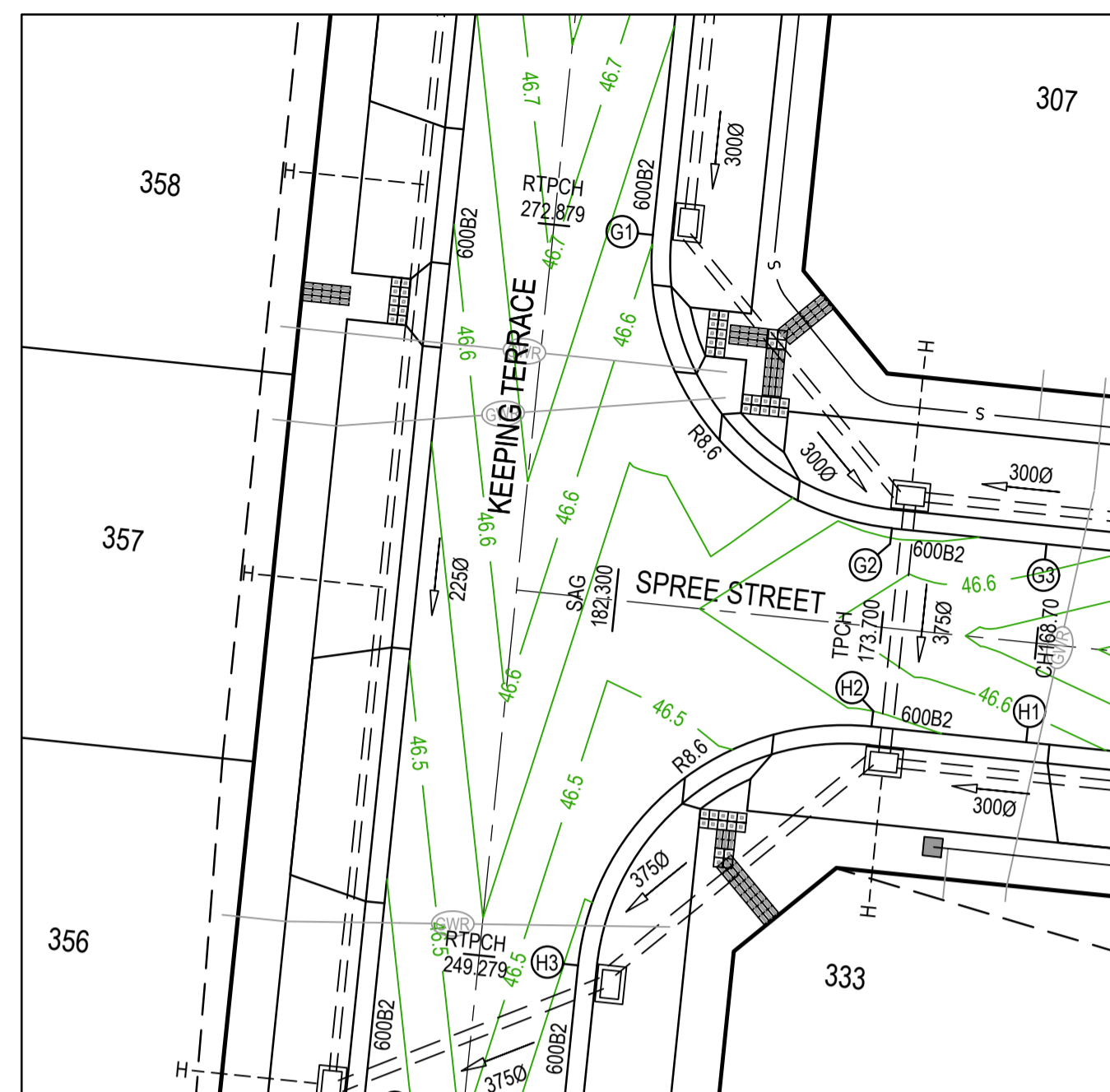
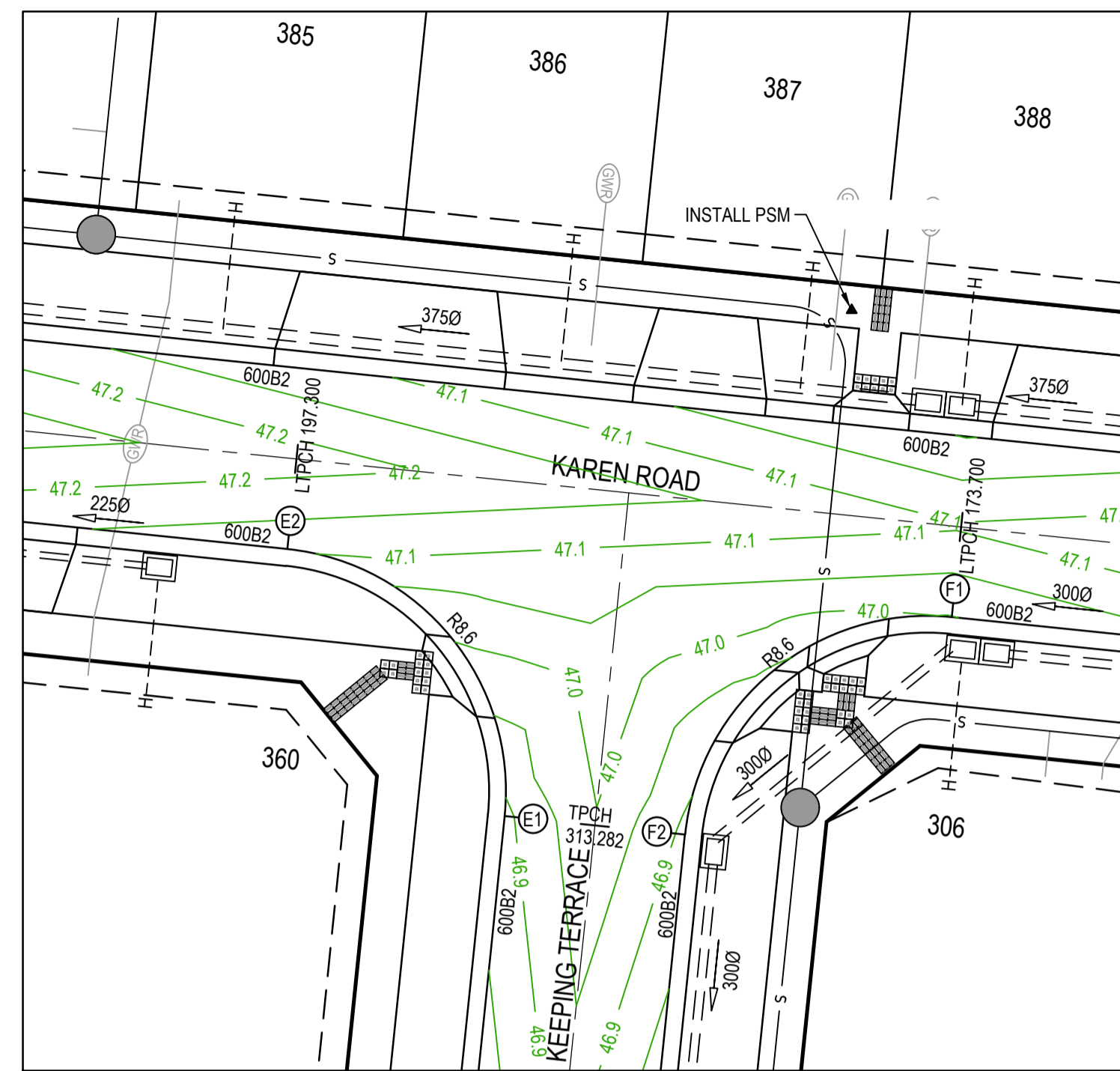
**SMEC**  
Member of the Surlana Jurong Group  
ABN 47 065 475 149  
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**GROWLAND**

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-03-03	03 of 23	1

Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Intersection Detail Plan - 1





Alignment E

Point no	Easting	Northing	RL
E1	296280.408	5811963.845	46.889
E2	296272.729	5811973.277	47.116

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
E1 - E2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	47.004

Alignment F

Point no	Easting	Northing	RL
F1	296296.206	5811970.873	46.999
F2	296286.775	5811963.193	46.889

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
F1 - F2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.944

Alignment G

Point no	Easting	Northing	RL
G1	296282.658	5811923.000	46.602
G2	296290.337	5811913.569	46.537
G3	296295.311	5811913.059	46.570

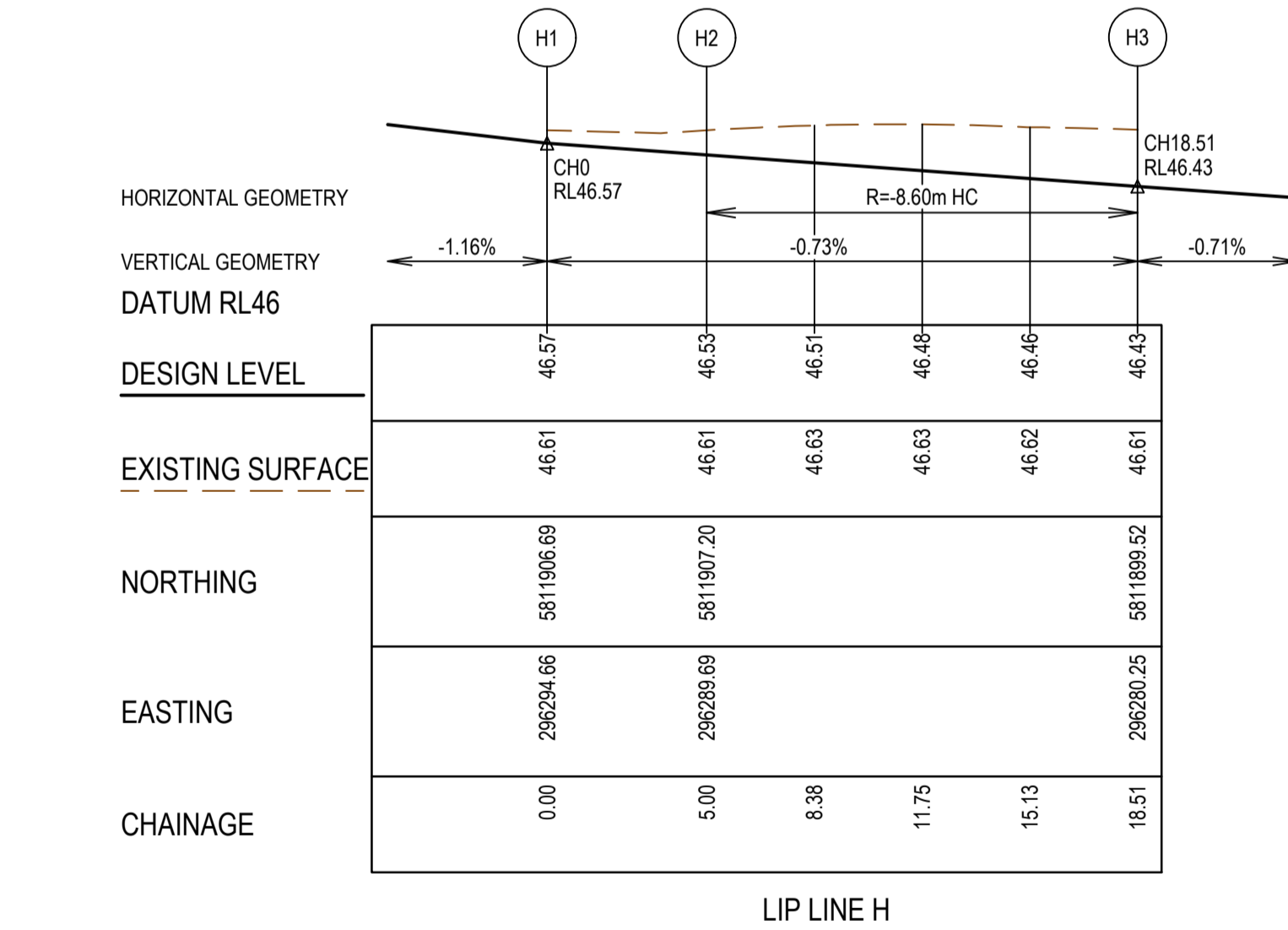
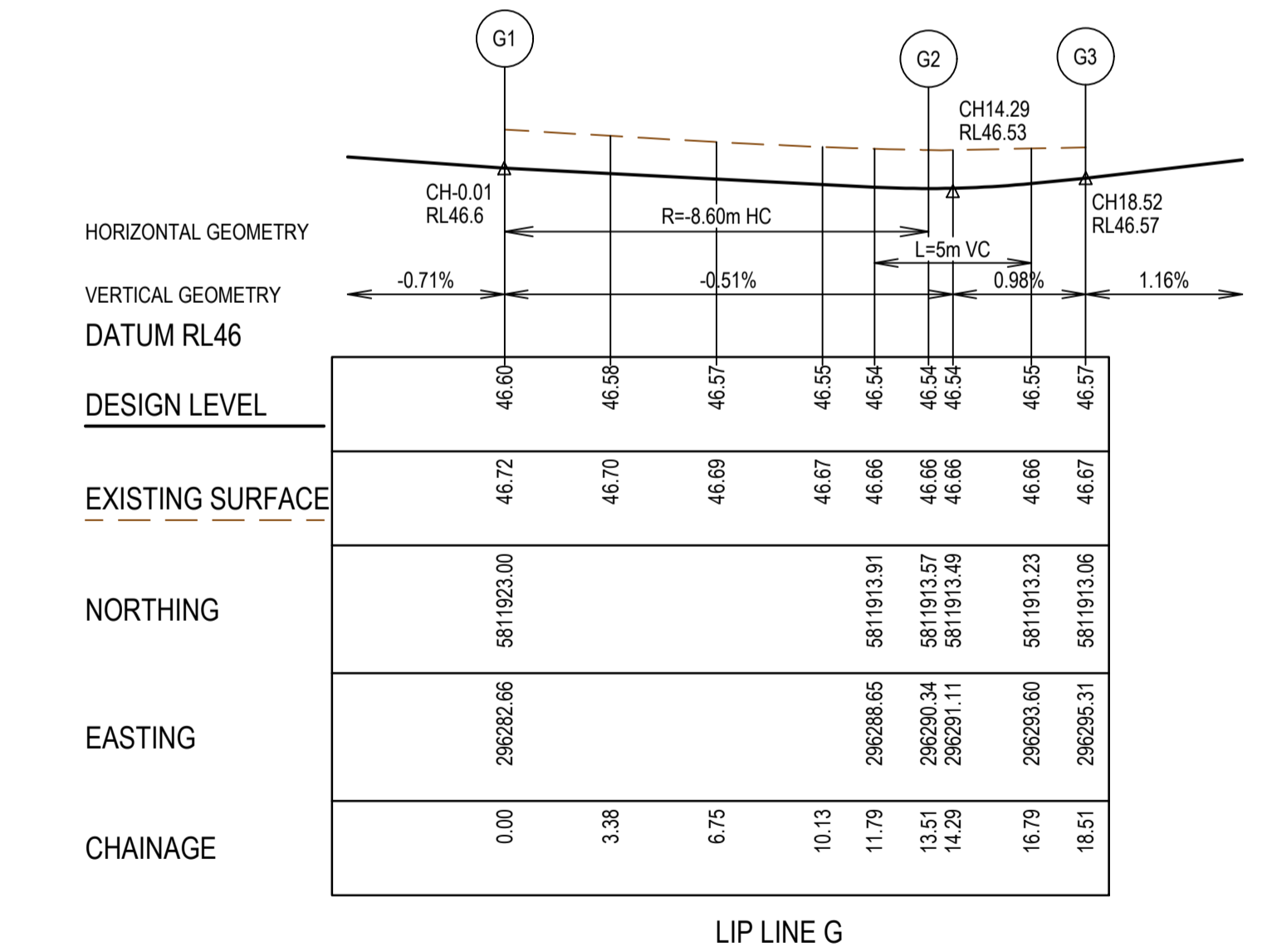
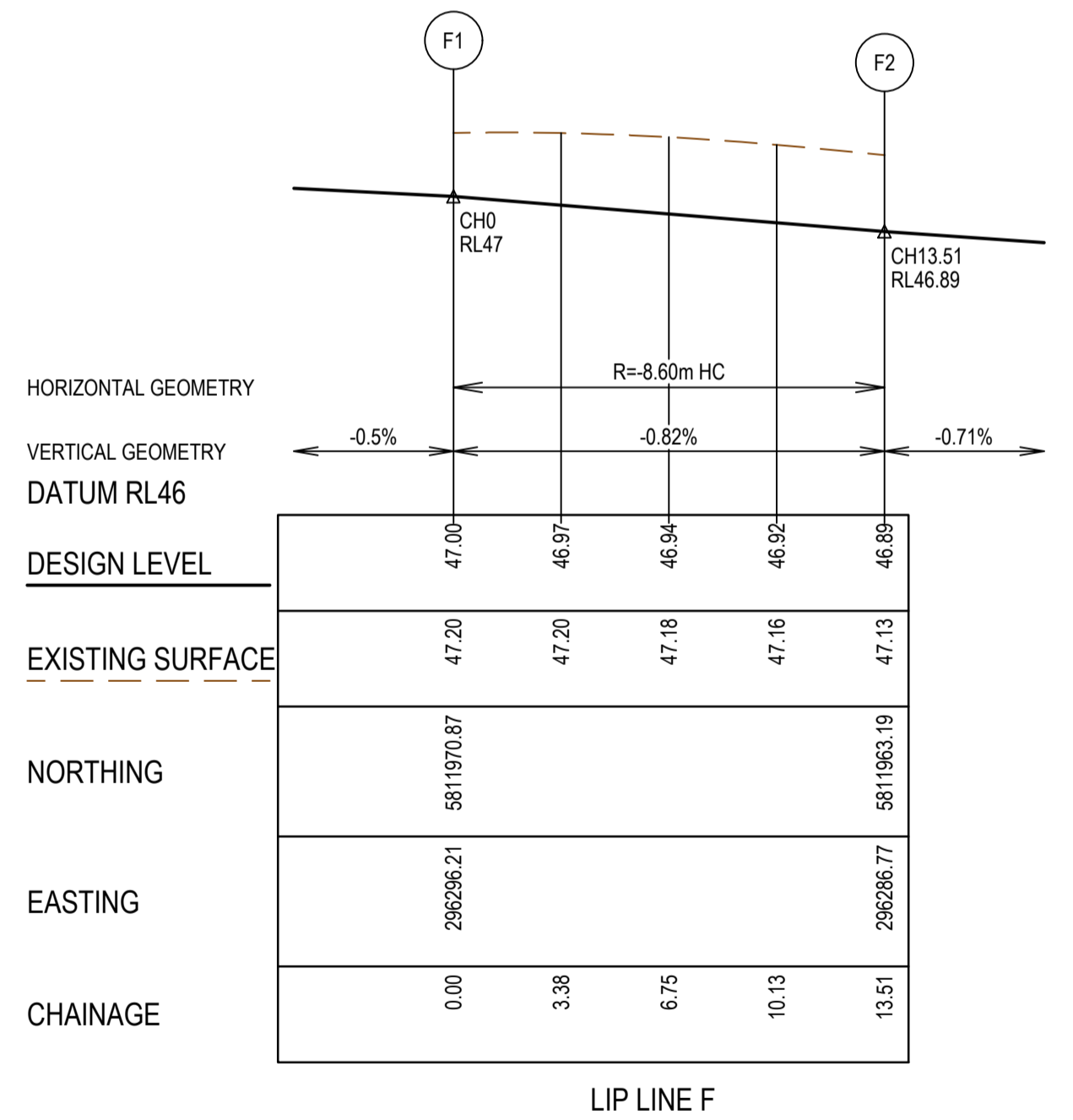
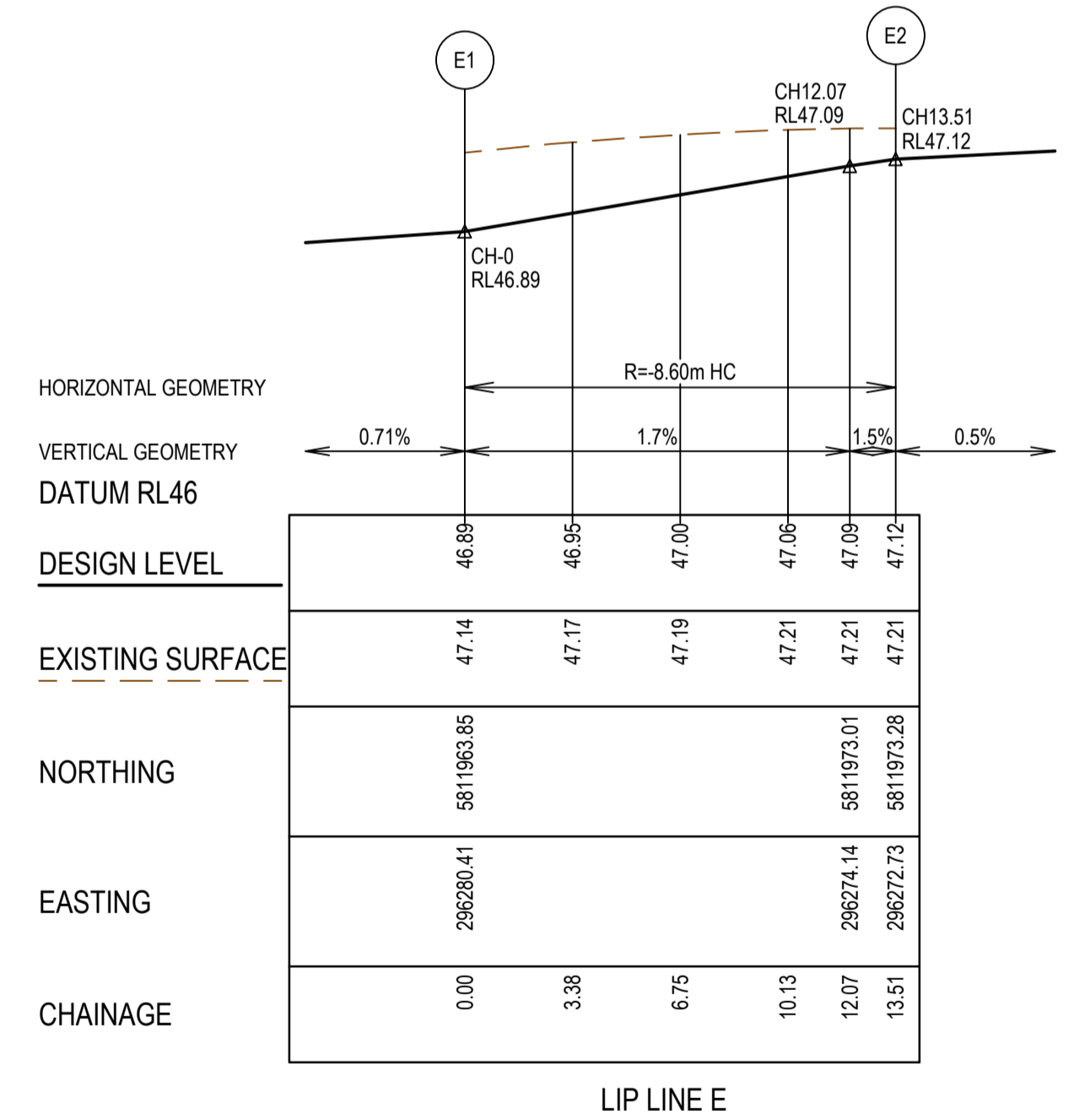
Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
G1 - G2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.567

Alignment H

Point no	Easting	Northing	RL
H1	296294.659	5811906.692	46.570
H2	296289.685	5811907.202	46.533
H3	296280.254	5811899.523	46.435

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
H2 - H3	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.484

LEGEND - INTERSECTION DETAIL PLAN	
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	STORMWATER DRAIN, PIT & PROPERTY INLET
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	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

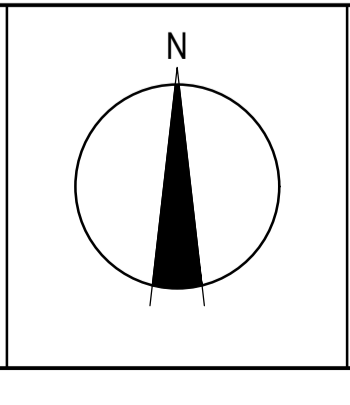
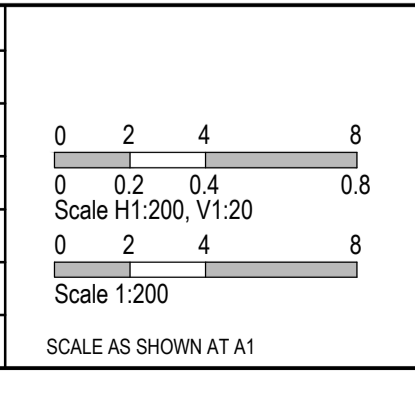


- NOTES**
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



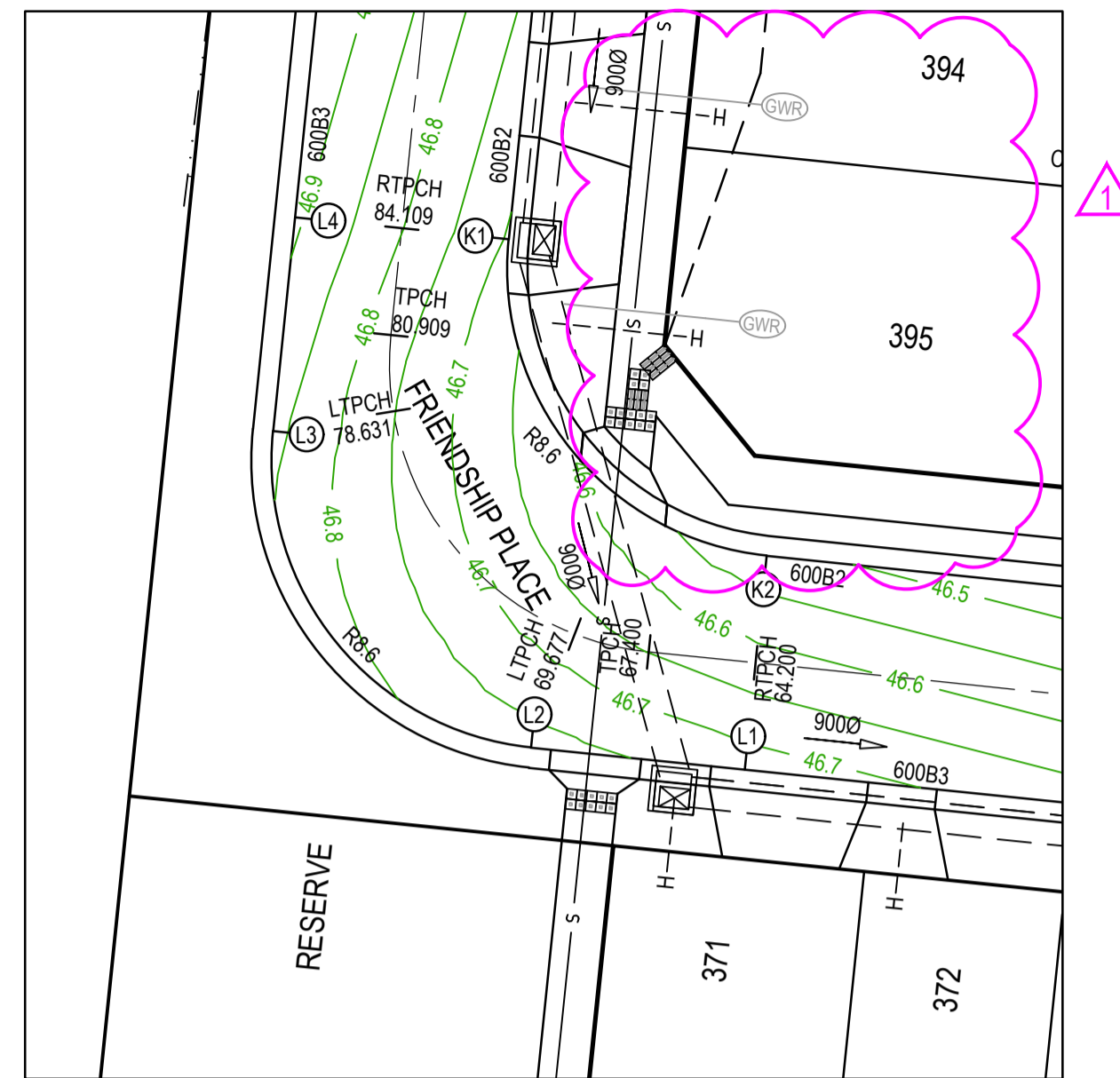
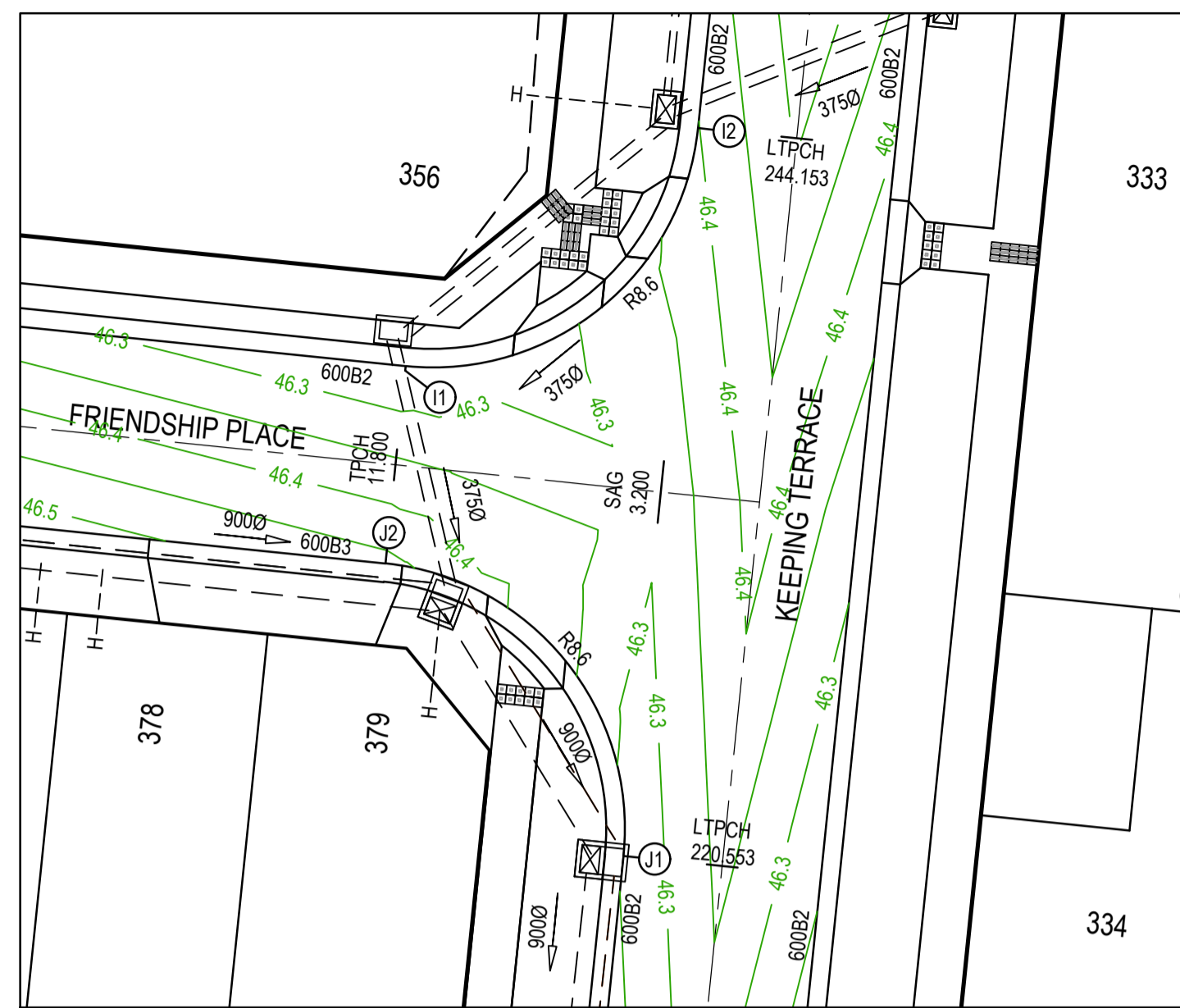
**SMEC**  
Member of the Surlana Jurong Group  
ABN 47 065 475 149  
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**GROWLAND**

Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Intersection Detail Plan - 2

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-04	SHEET No. 04 of 23	REVISION 0
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Alignment I

Point no	Easting	Northing	RL
I1	296253.934	5811887.397	46.251
I2	296273.365	5811895.076	46.398

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
I1 - I2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.311

Alignment J

Point no	Easting	Northing	RL
J1	296270.961	5811871.598	46.256
J2	296263.282	5811881.030	46.464

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
J1 - J2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.360

Alignment K

Point no	Easting	Northing	RL
K1	296204.127	5811902.166	46.695
K2	296211.806	5811892.735	46.513

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
K1 - K2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.604

Alignment L

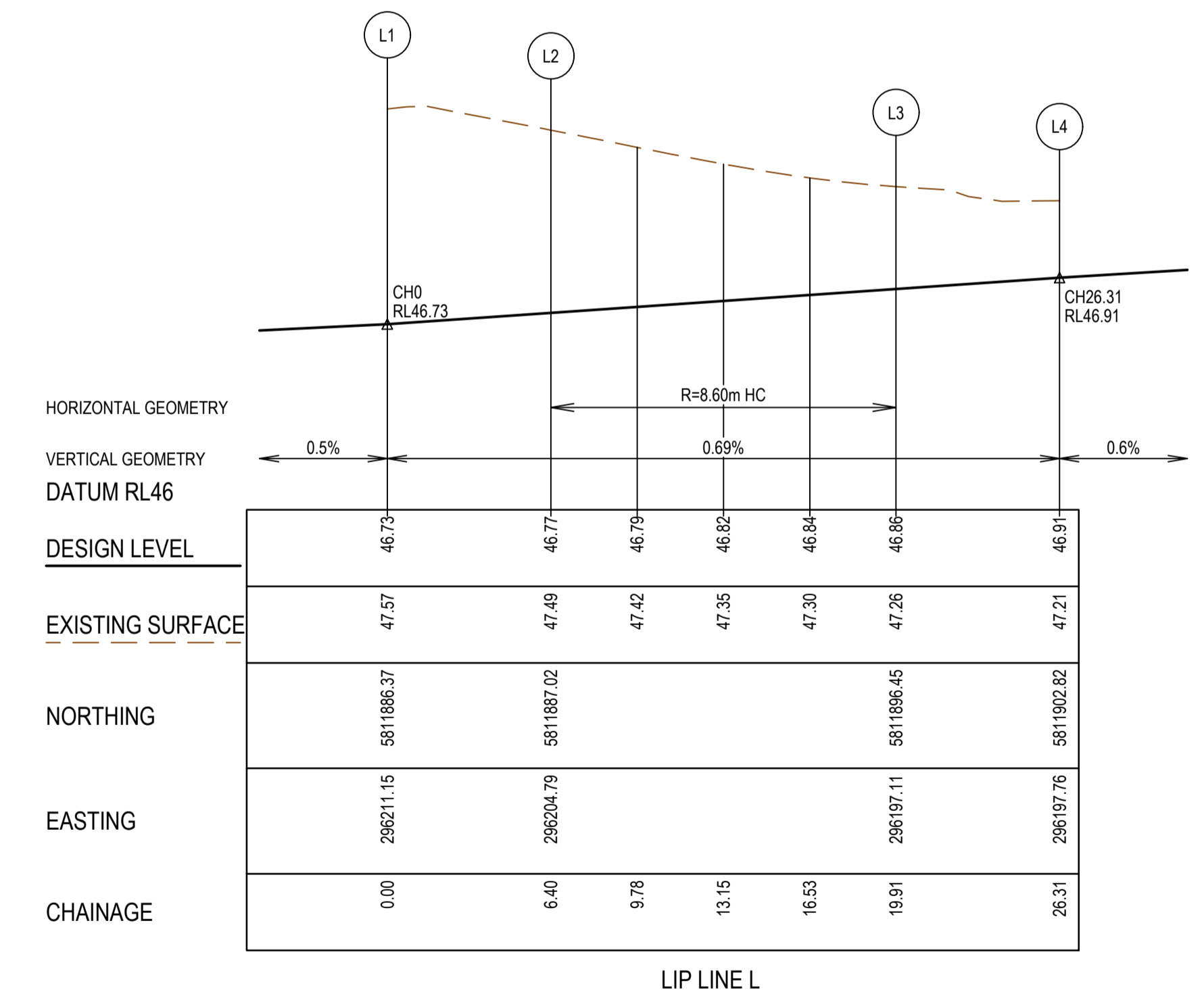
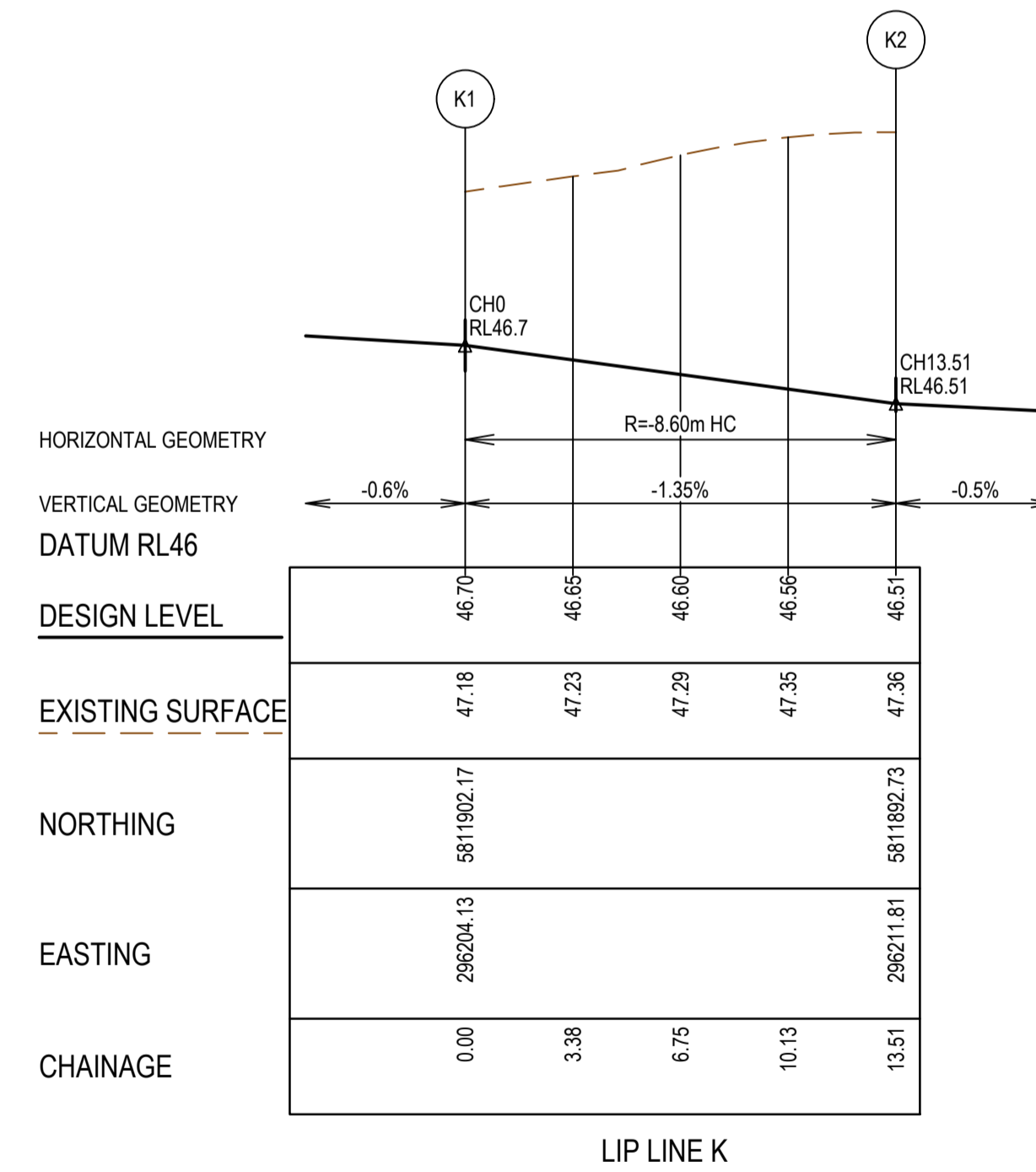
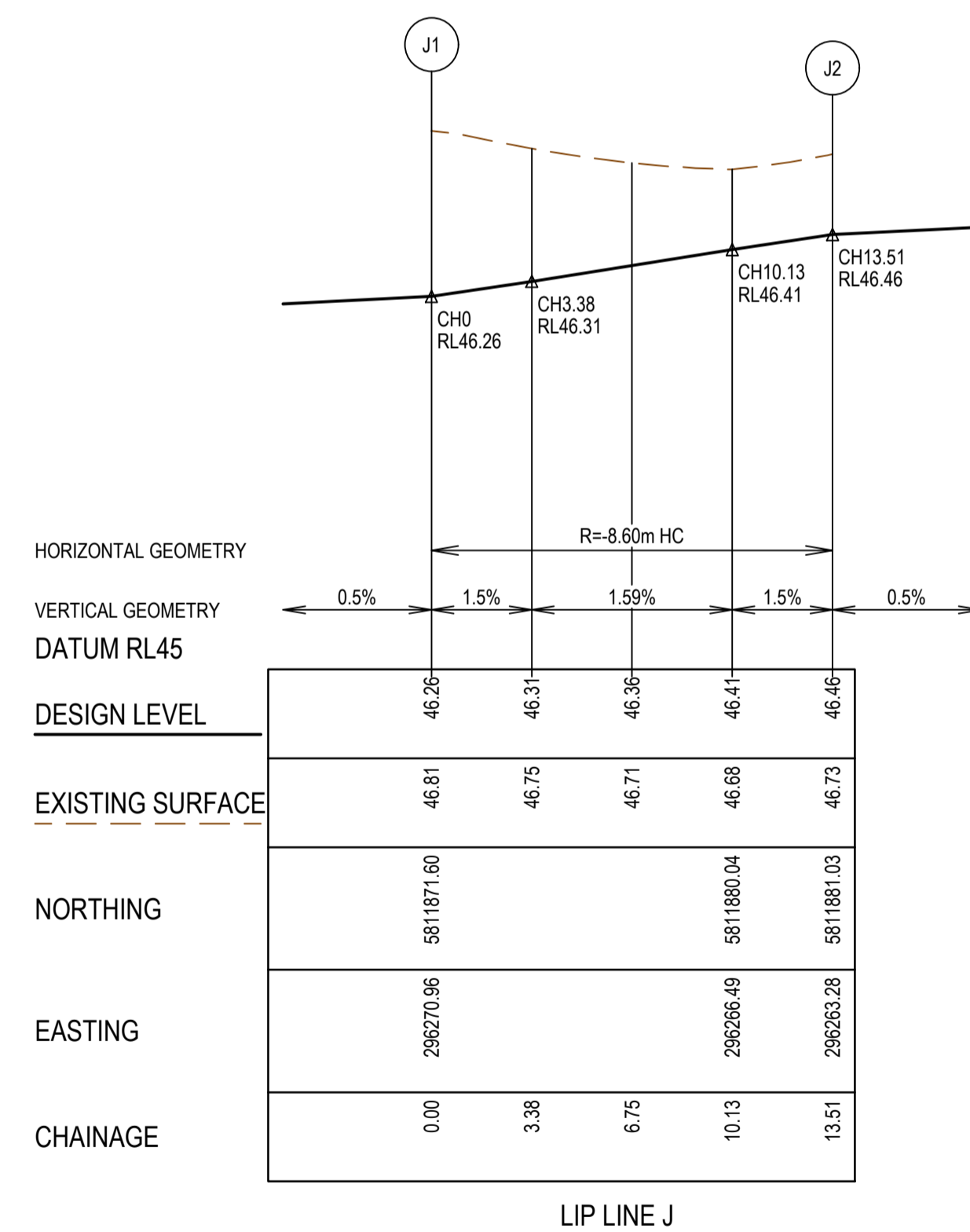
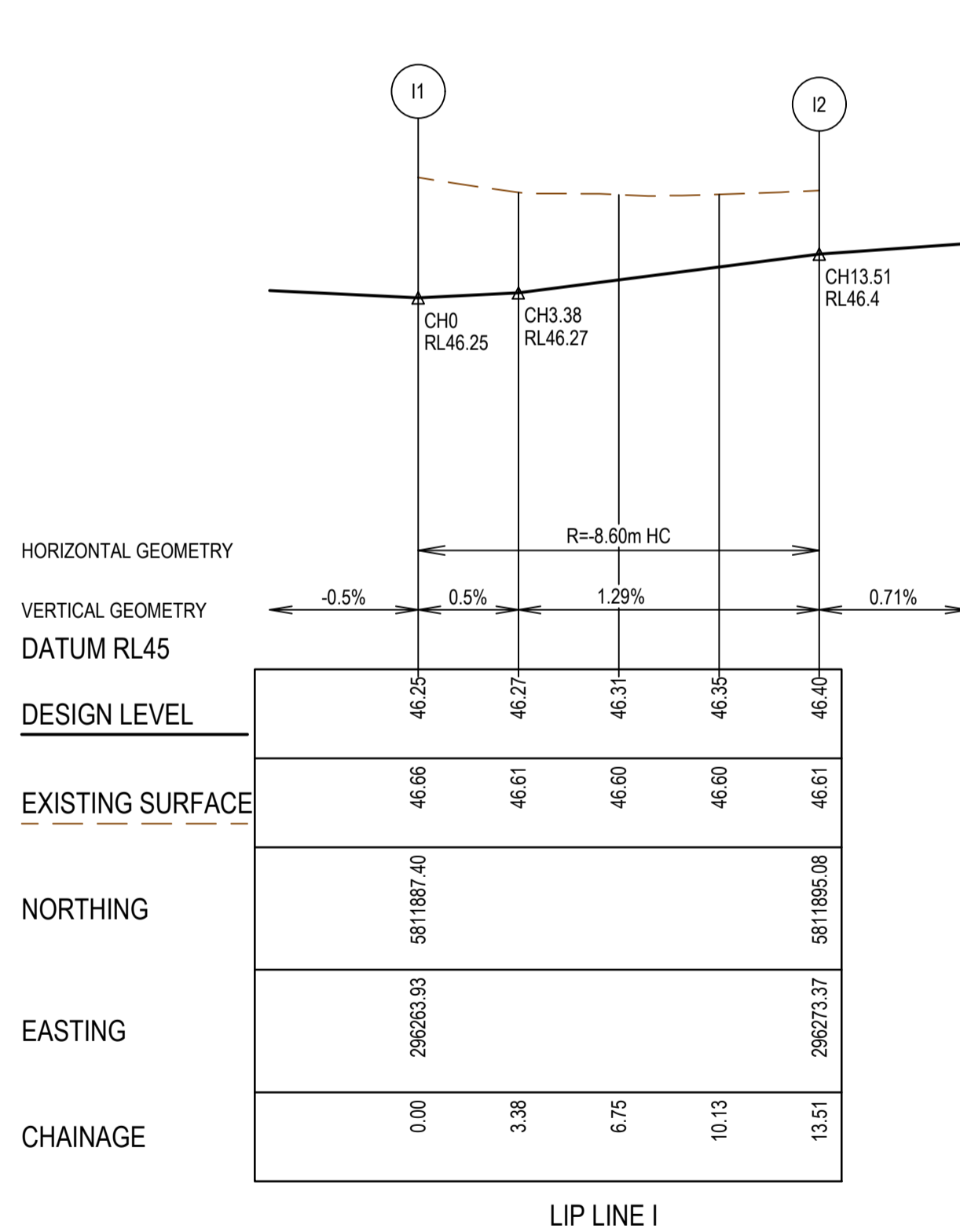
Point no	Easting	Northing	RL
L1	296211.154	5811896.368	46.726
L2	296204.788	5811887.020	46.771
L3	296197.109	5811896.452	46.864
L4	296197.761	5811902.818	46.909

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
L2 - L3	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.817

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	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

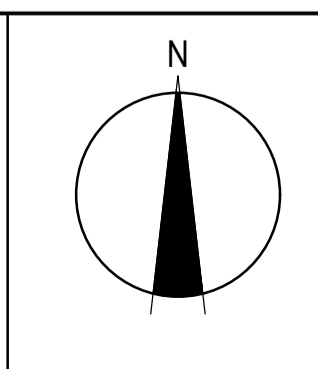
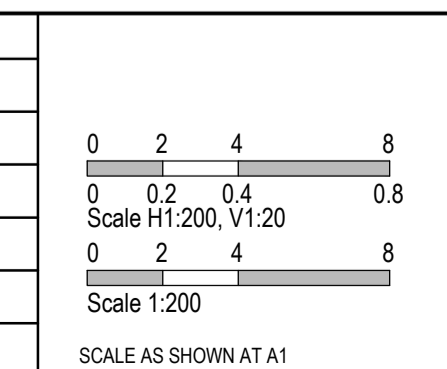


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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS
1	06.02.20	FRIENDSHIP PLACE LOT MIX CHANGE	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

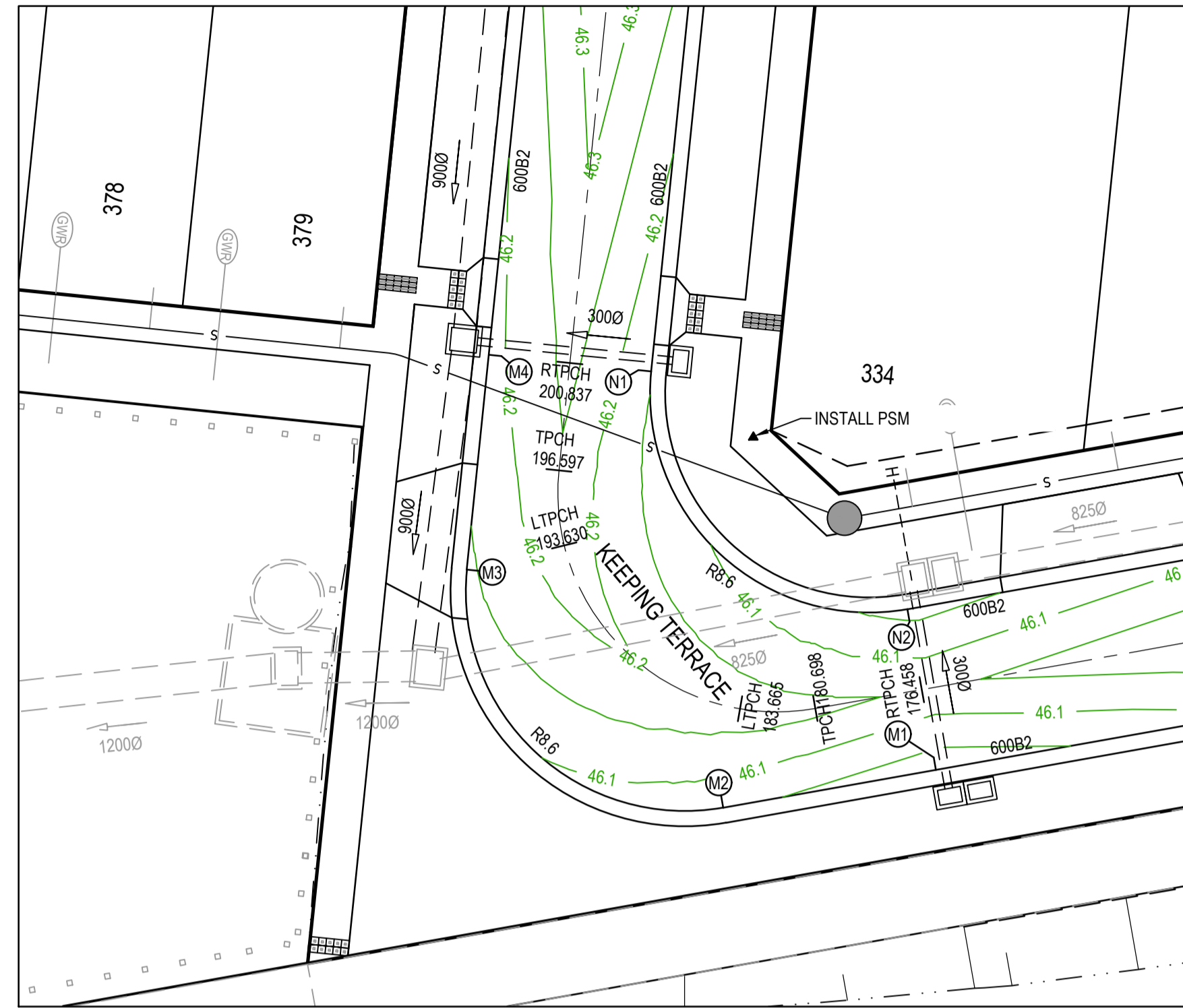


**SMEC**  
Member of the Surlana Jurong Group  
ABN 47 065 475 149  
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**GROWLAND**

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-03-05	05 of 23	1





Alignment M

Point no	Easting	Northing	RL
M1	296286.438	5811835.688	46.019
M2	296278.148	5811834.205	46.062
M3	296268.088	5811843.548	46.141
M4	296268.952	5811851.985	46.184

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
M2 - M3	105.921	8.600	15.899	3.420	2.517	3.835	3.030	3.975	46.102

Alignment N

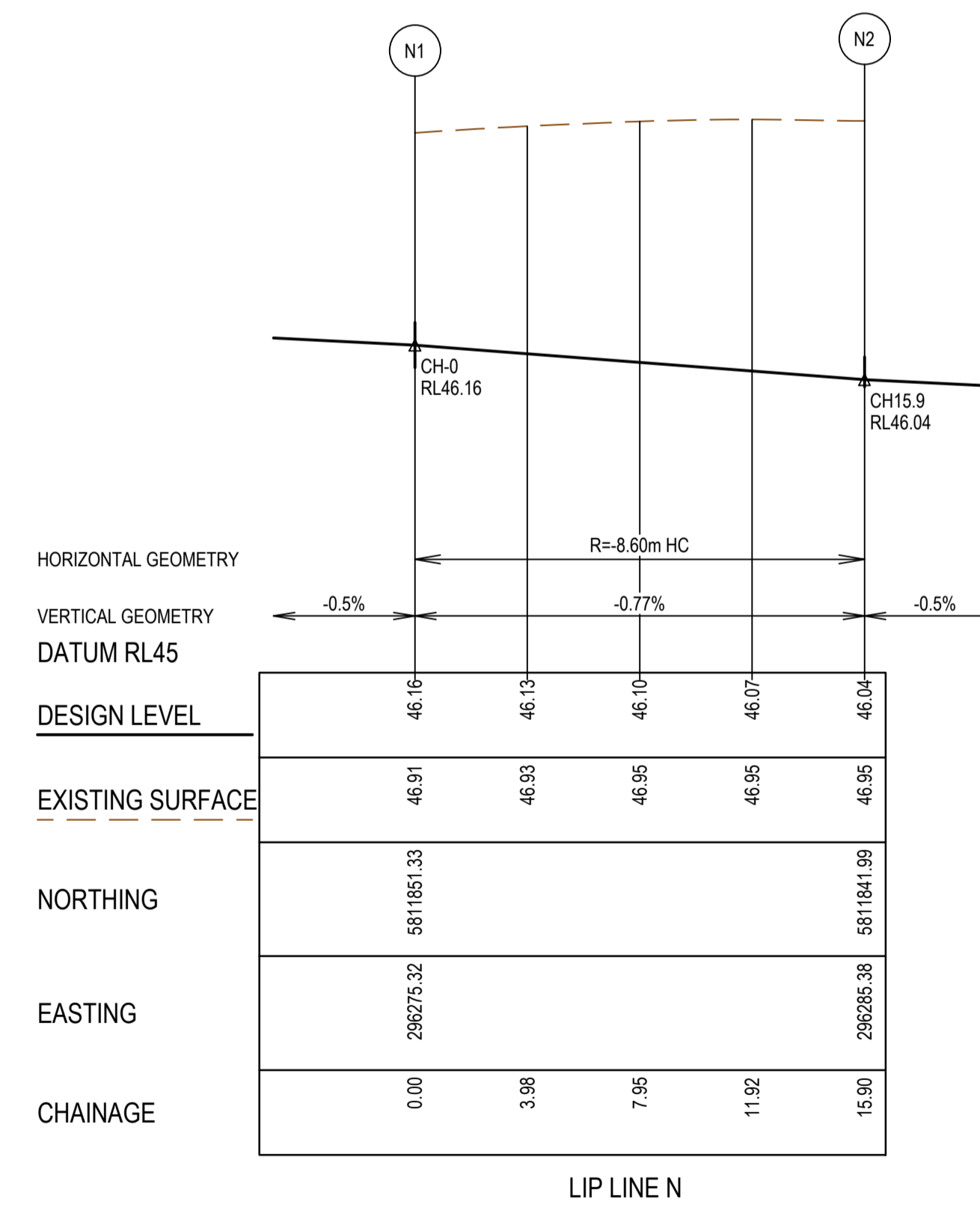
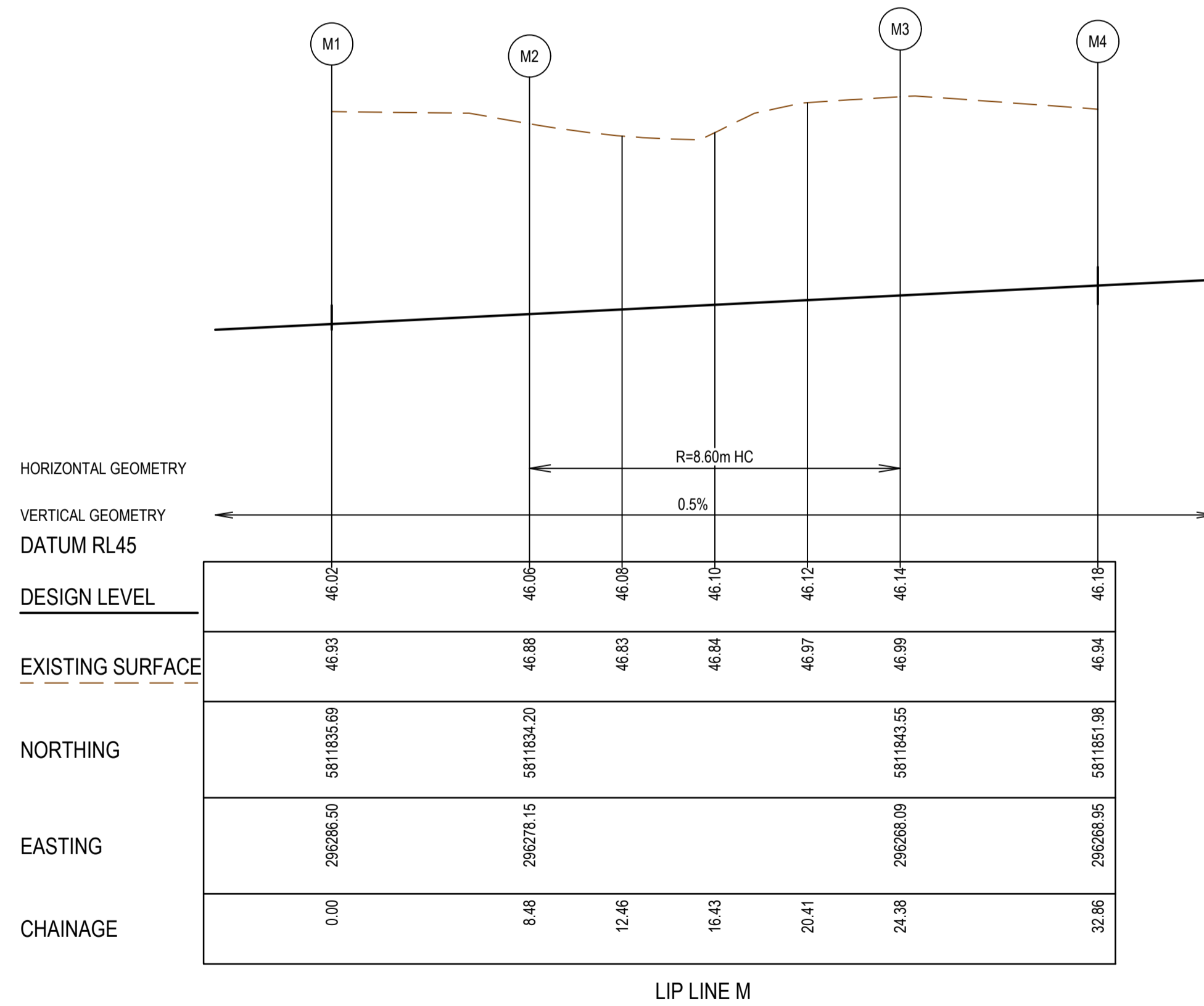
Point no	Easting	Northing	RL
N1	296275.319	5811851.333	46.157
N2	296285.379	5811841.990	46.035

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
N1 - N2	105.921	8.600	15.899	3.420	2.517	3.835	3.030	3.975	46.096

**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



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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

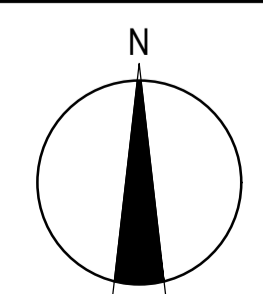
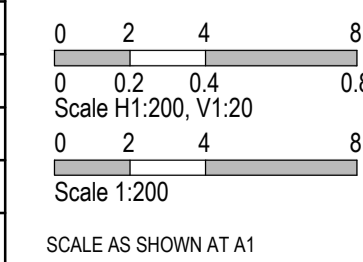
All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

Quality Management ISO 9001  
Global-Mark.com.au®

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

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

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

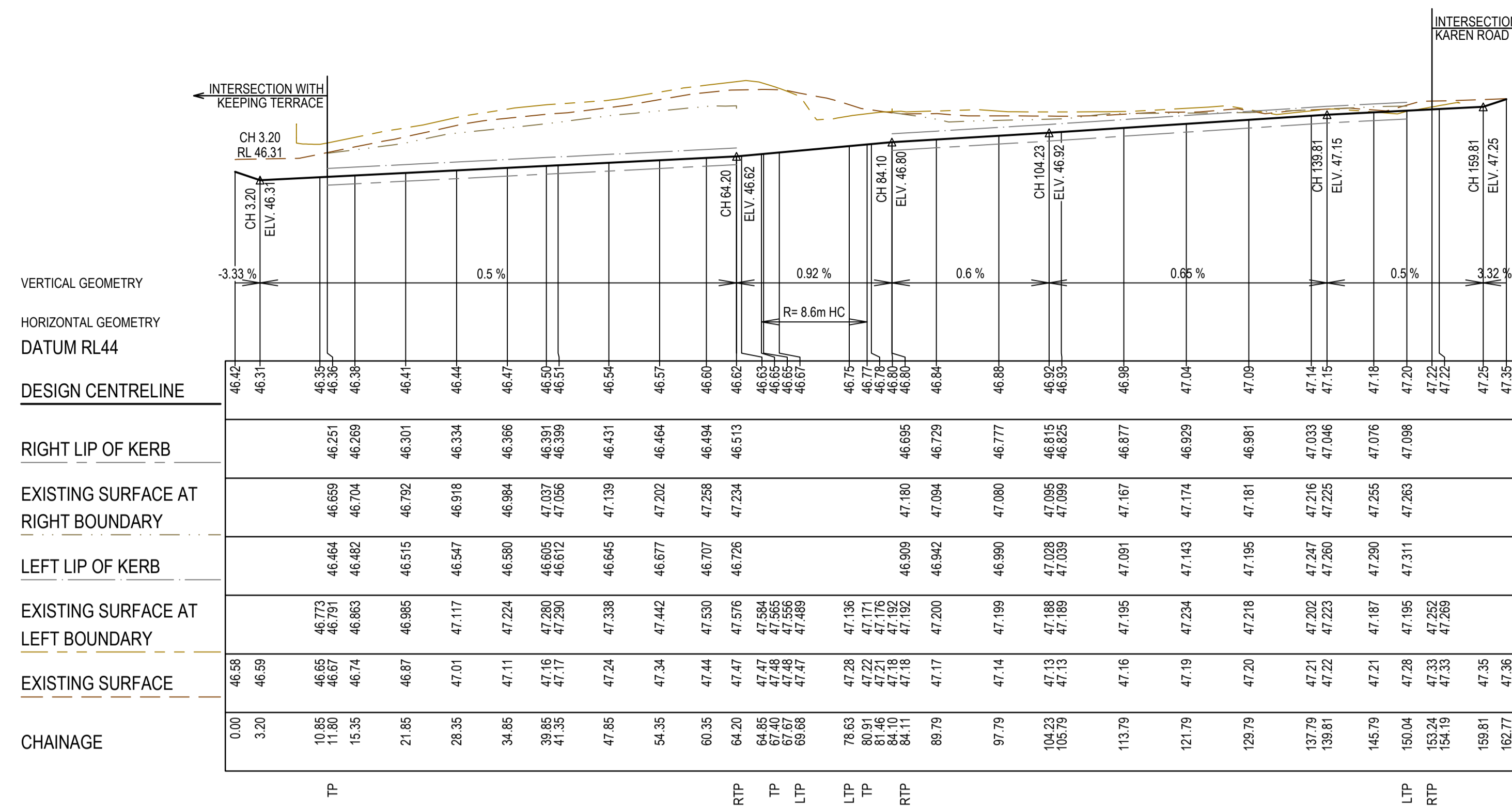


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Melbourne, VIC 3008  
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**GROWLAND**

Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Intersection Detail Plan - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-03-06	06 of 23	0



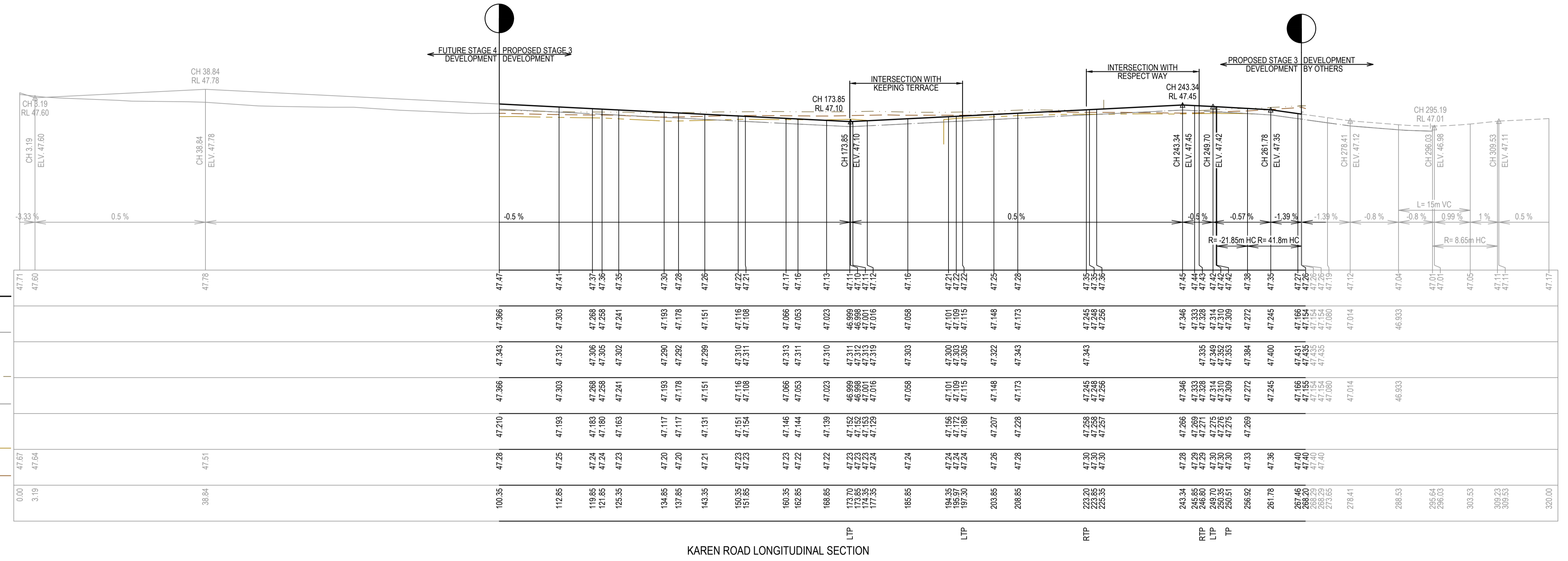
FRIENDSHIP PLACE DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296275.346	5811883.011	46.421	IP	275°50'50.00"		
2	67.400	296208.297	5811889.878	46.649	TC	275°50'50.00"	13.509	8.600
3	74.154	296199.742	5811890.754	46.711	IP	5°50'50.00"		
4	80.909	296200.618	5811899.309	46.773	CT	5°50'50.00"		
5	162.766	296208.957	5811980.740	47.352	IP	5°50'50.00"		

KAREN ROAD DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	100.350	296369.500	5811966.583	47.472	IP	275°50'50.00"		
2	250.510	296220.121	5811981.881	47.416	TC	275°50'50.00"	6.406	-21.850
3	253.713	296216.912	5811982.210	47.398	IP			
4	256.916	296213.745	5811981.597	47.379	IP			
5	262.561	296208.222	5811980.273	47.340	IP			
6	268.206	296202.546	5811980.470	47.262	IP	271°59'29.06"	11.290	41.800

FRIENDSHIP PLACE LONGITUDINAL SECTION

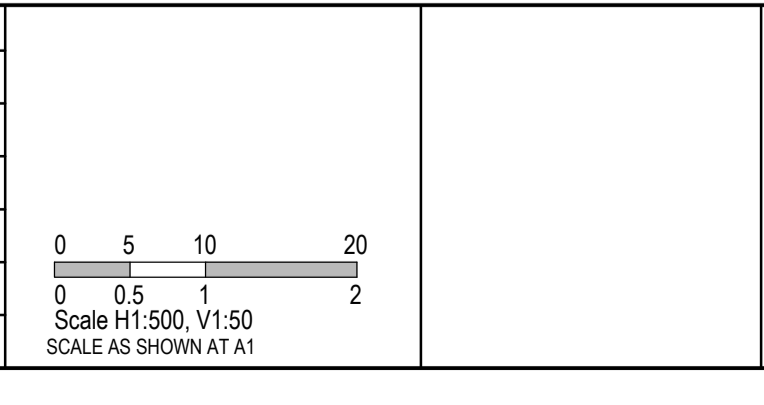


KAREN ROAD LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



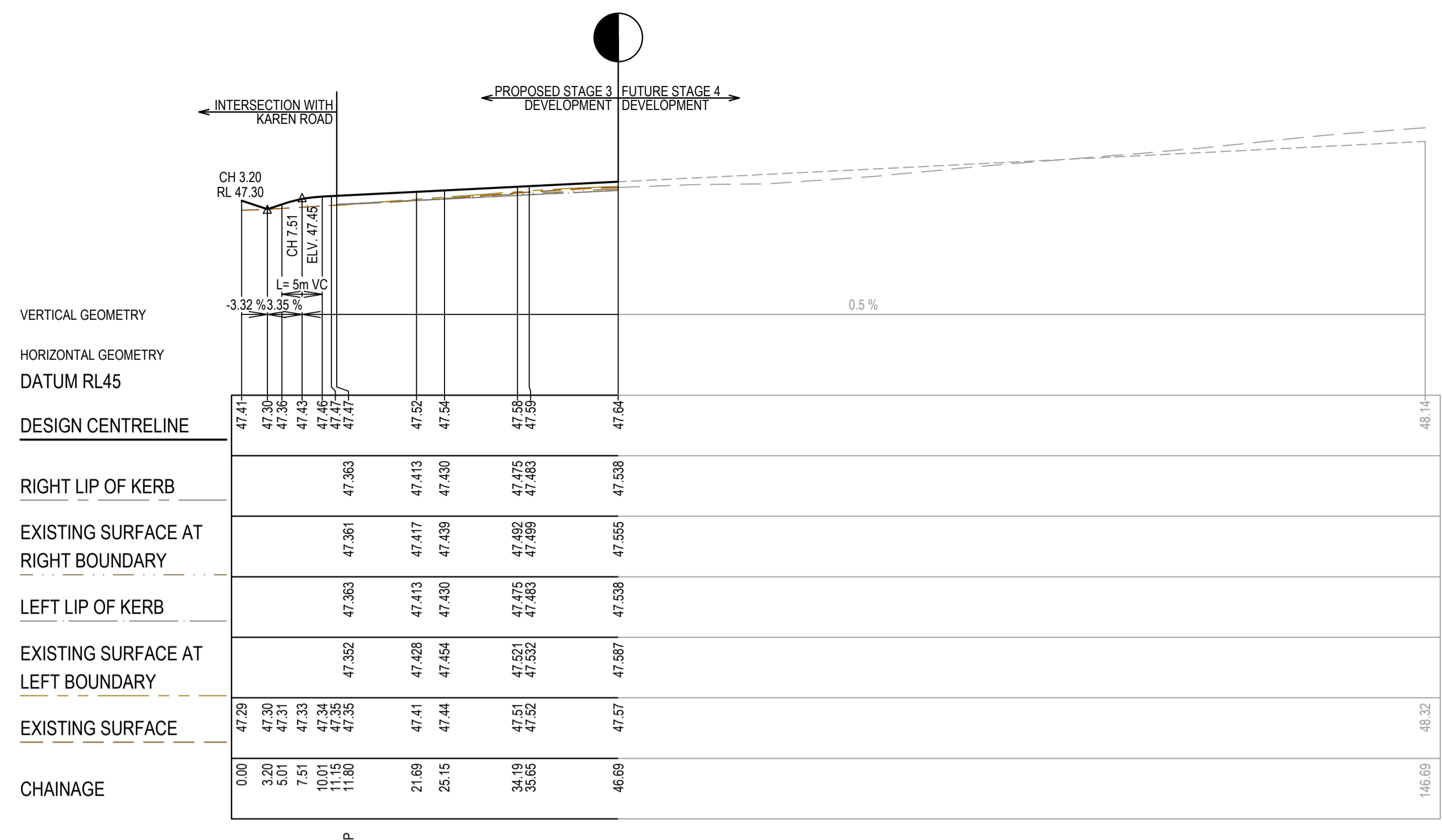
**SMEC**  
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ABN 47 065 475 149  
Collins Square, Tower 4, Level 20, 727 Collins St  
Melbourne, VIC 3008  
Ph 03 9514 1500

**GROWLAND**

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-03-07	07 of 23	0

Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Longitudinal Sections - 1





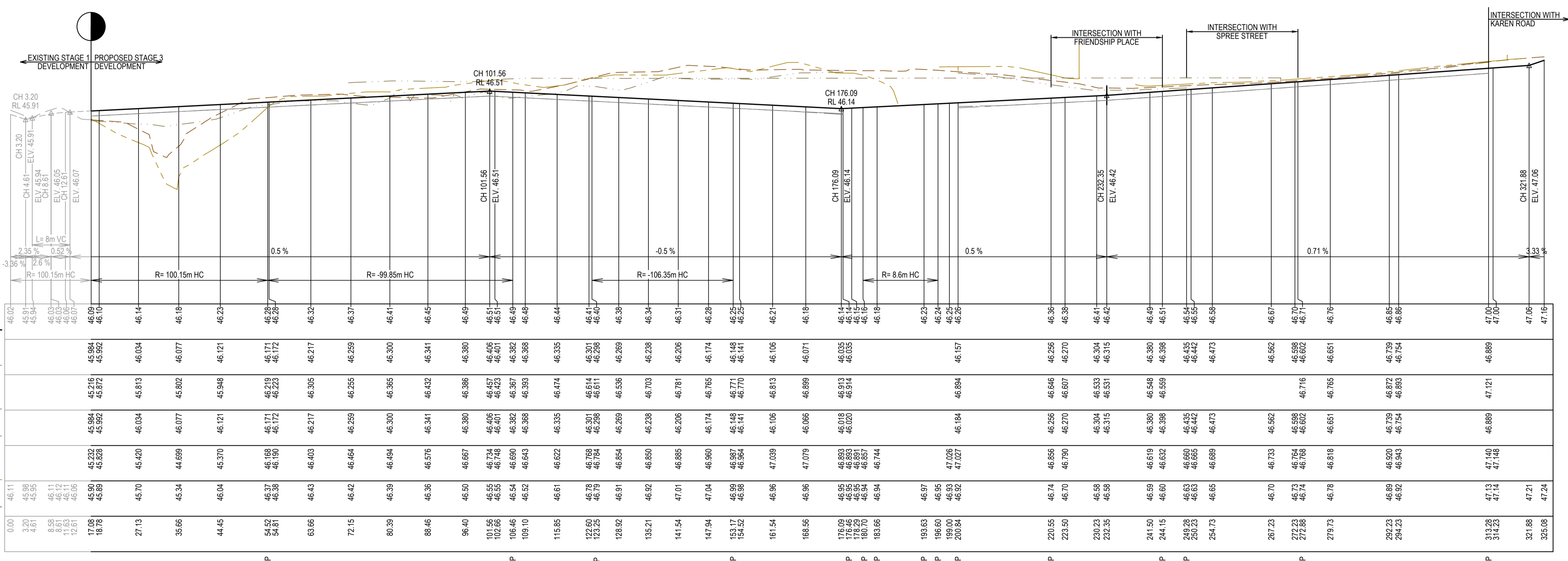
RESPECT WAY DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.00	296235.551	5811980.301	47.411	IP	5°50'49.64"		
2	46.692	296240.308	5812026.750	47.644	IP	5°50'49.64"		

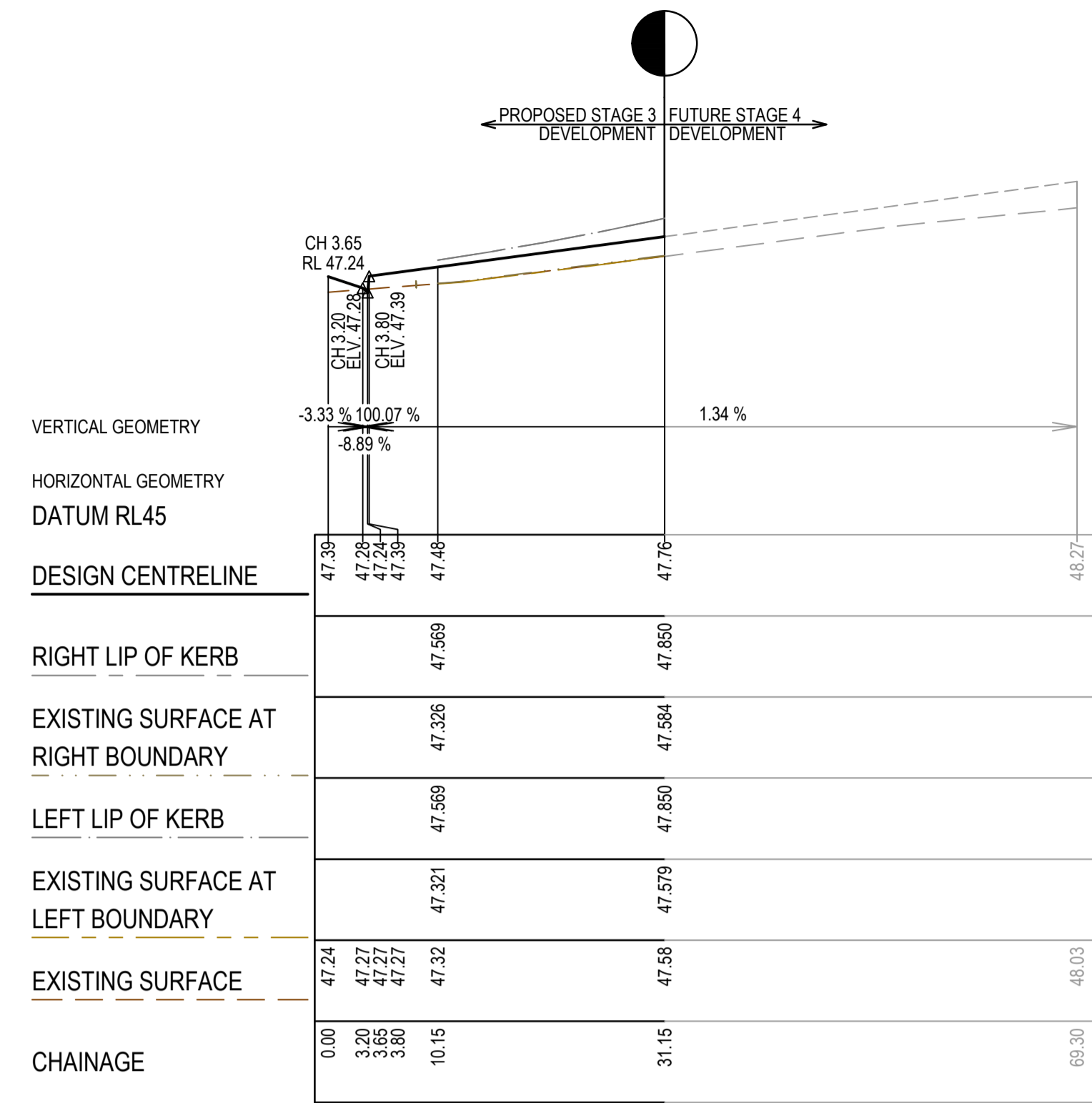
KEEPING TERRACE DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	17.077	296437.031	5811808.026	46.090	IP	284°25'24.14"		
2	35.799	296418.685	5811812.744	46.184	IP	37.444	100.150	
3	54.521	296403.329	5811823.837	46.278	IP			
4	80.489	296381.792	5811839.396	46.407	IP		51.936	-99.850
5	106.457	296355.369	5811842.194	46.408	IP			
6	132.251	296338.669	5811843.962	46.404	TC	276°02'35.00"		
7	153.167	296308.870	5811842.913	46.255	IP		29.916	-106.350
8	180.698	296281.763	5811838.097	46.163	TC	259°55'34.12"		
9	188.647	296270.543	5811836.104	46.203	IP		15.899	8.600
10	196.597	296271.704	5811847.441	46.243	CT	5°50'50.00"		
11	325.082	296284.793	5811975.258	47.163	IP	5°50'50.00"		

RESPECT WAY LONGITUDINAL SECTION







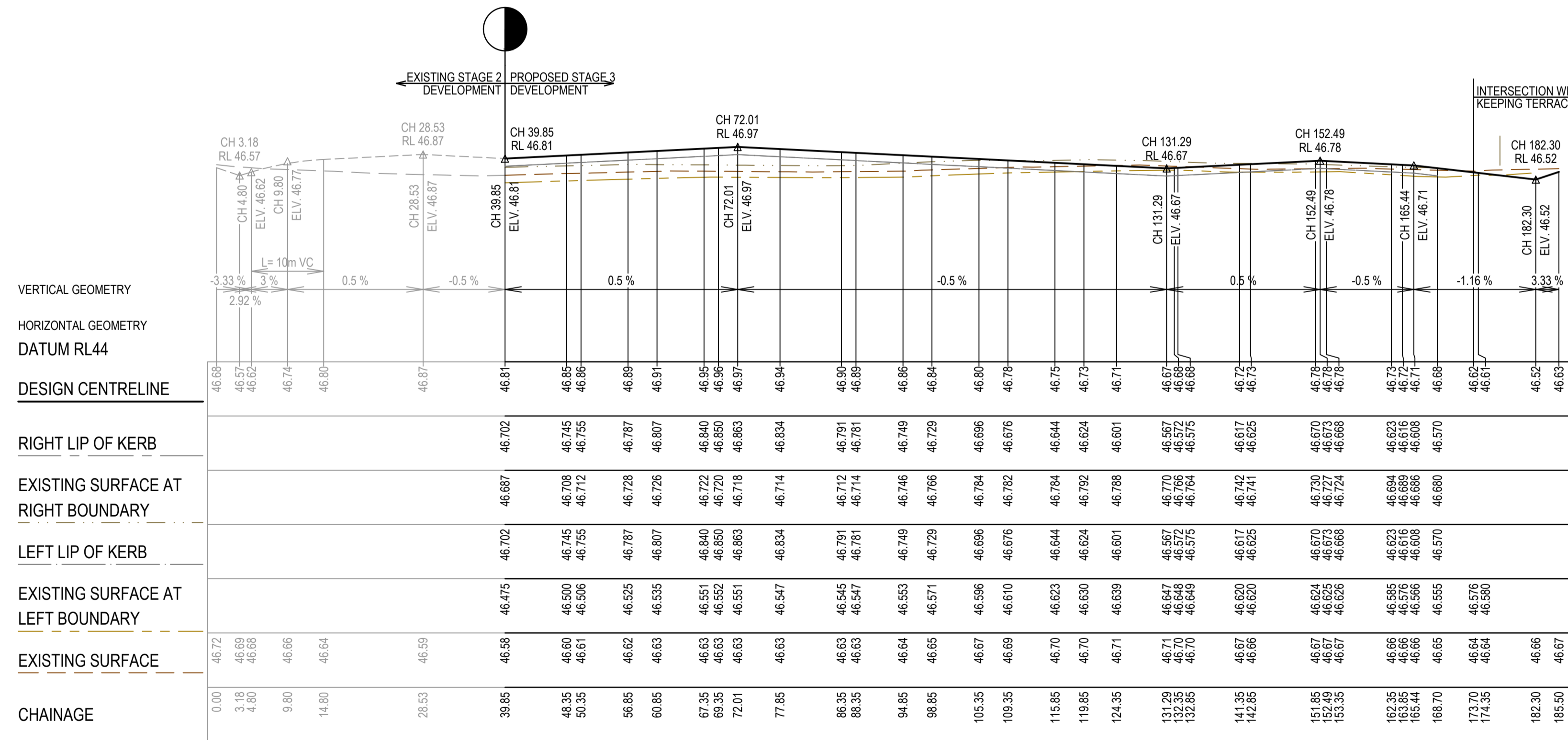
FUN LANE LONGITUDINAL SECTION

FUN LANE DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296352.887	5811968.265	47.389	IP	5°50'56.25"		
2	31.150	296356.061	5811999.273	47.758	IP	5°50'56.25"		

SPREE STREET DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	39.850	296423.165	5811896.749	46.809	IP	275°50'50.00"		
2	185.500	296278.273	5811911.587	46.625	IP	275°50'50.00"		

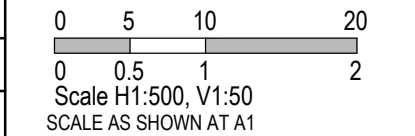


SPREE STREET LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/UC	BS

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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

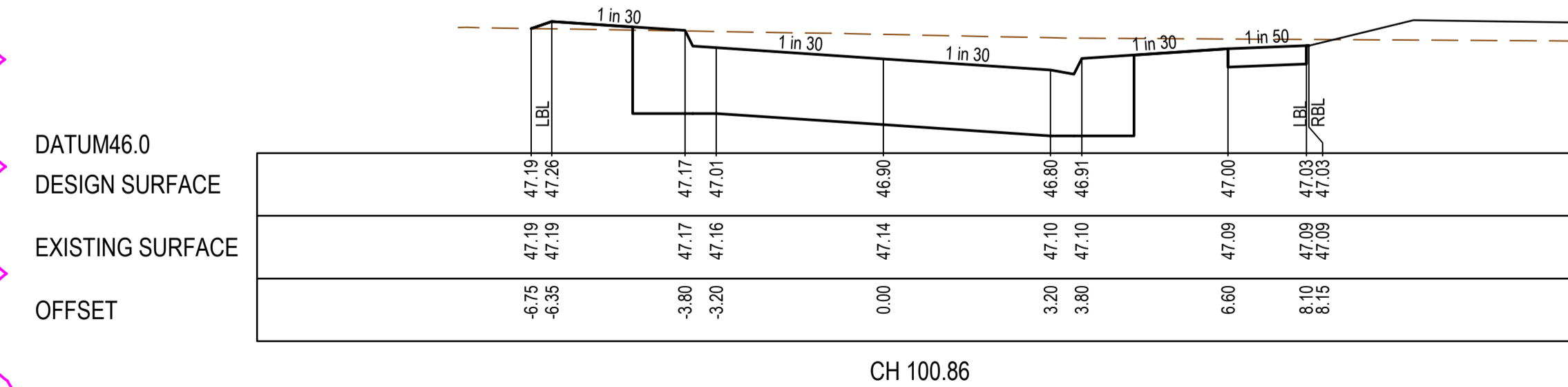
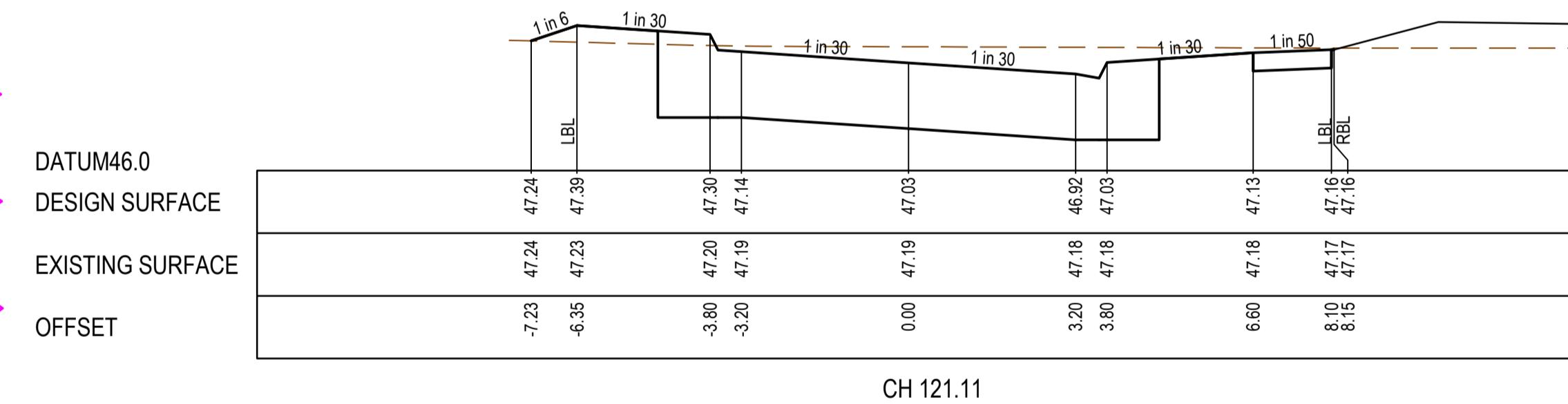
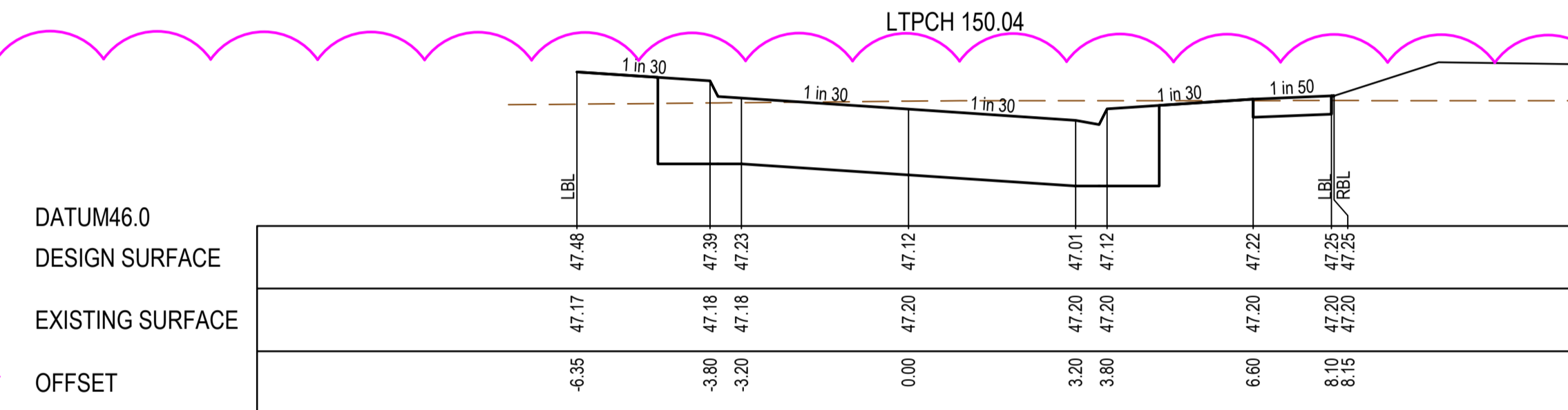
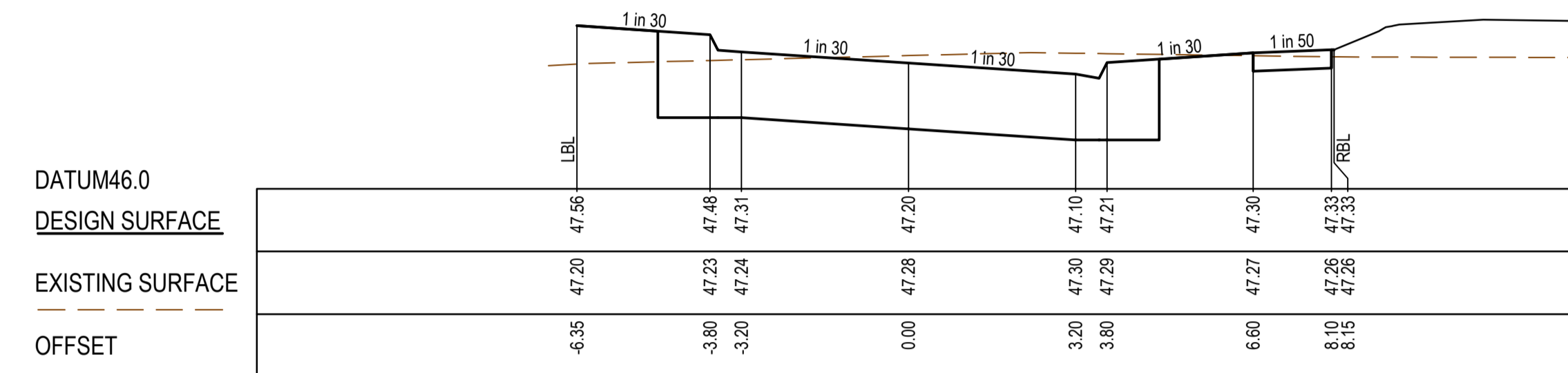
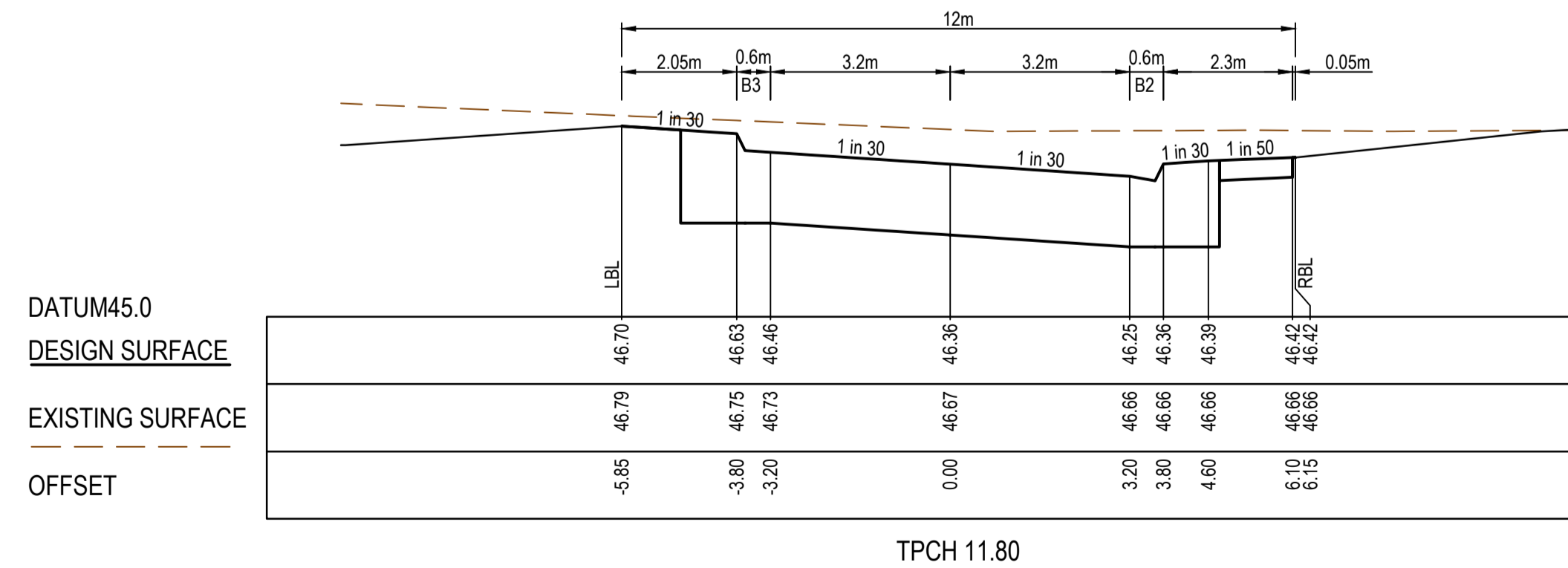
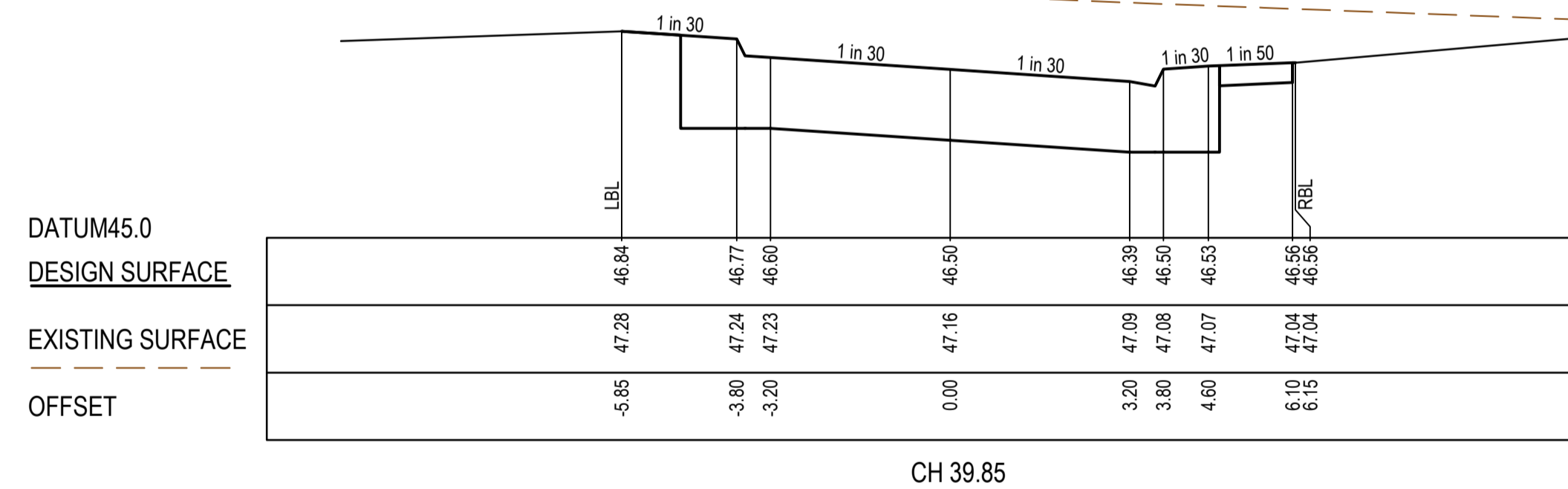
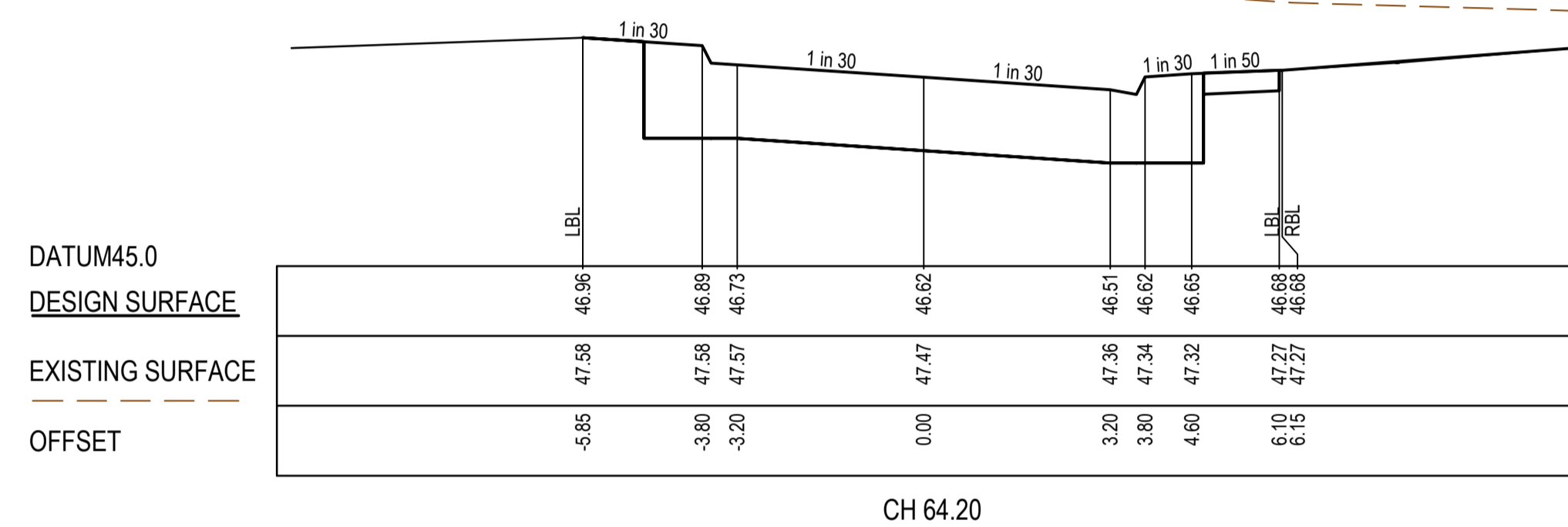
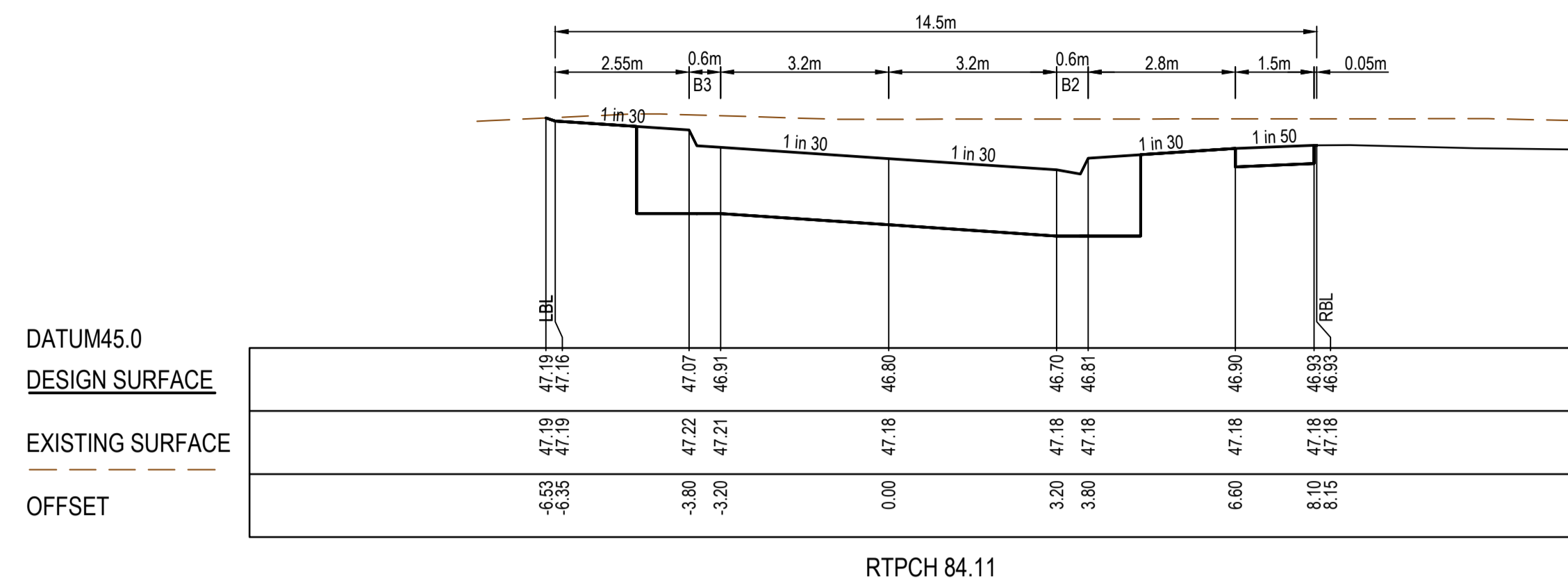


Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Longitudinal Sections - 3

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-03-09	09 of 23	0



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

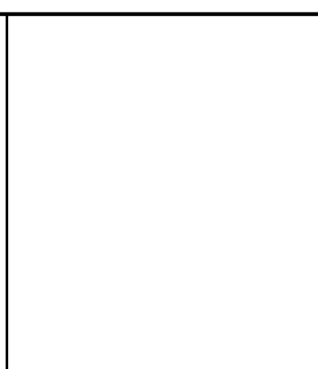


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS
1	27.11.19	CROSS SECTIONS UPDATED	SH/JC	BS

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  
 Global-Mark.com.au®

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



**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

**GROWLAND**

Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Cross Sections: Friendship Place

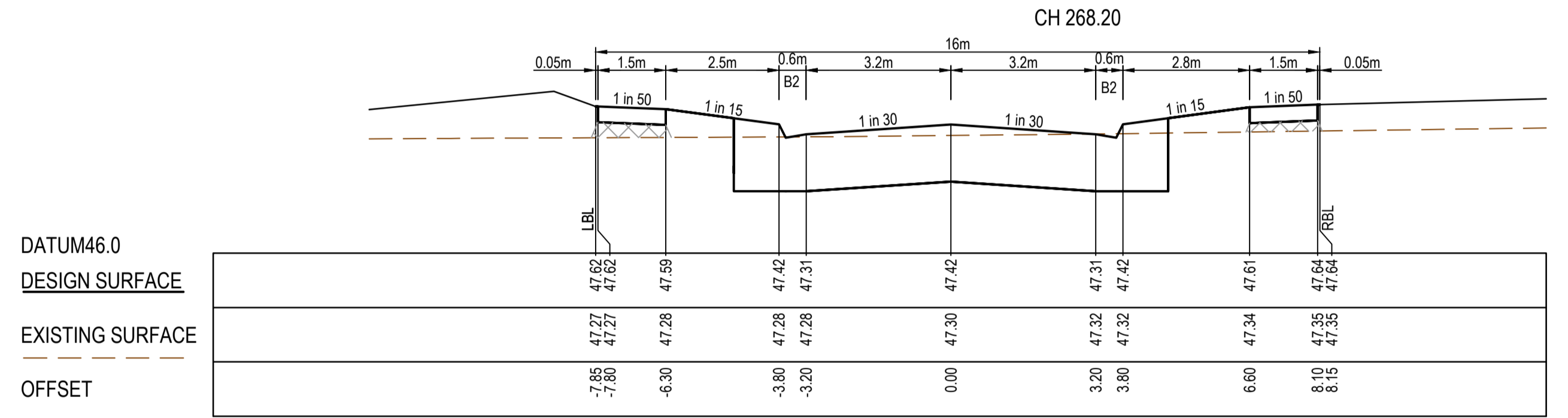
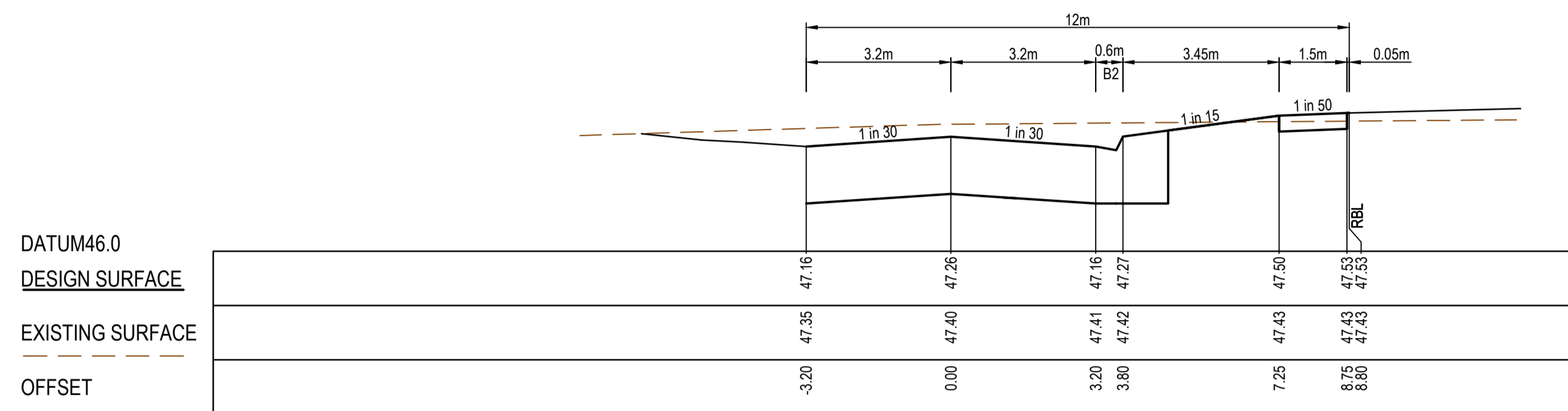
MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-10	SHEET No. 10 of 23	REVISION 1
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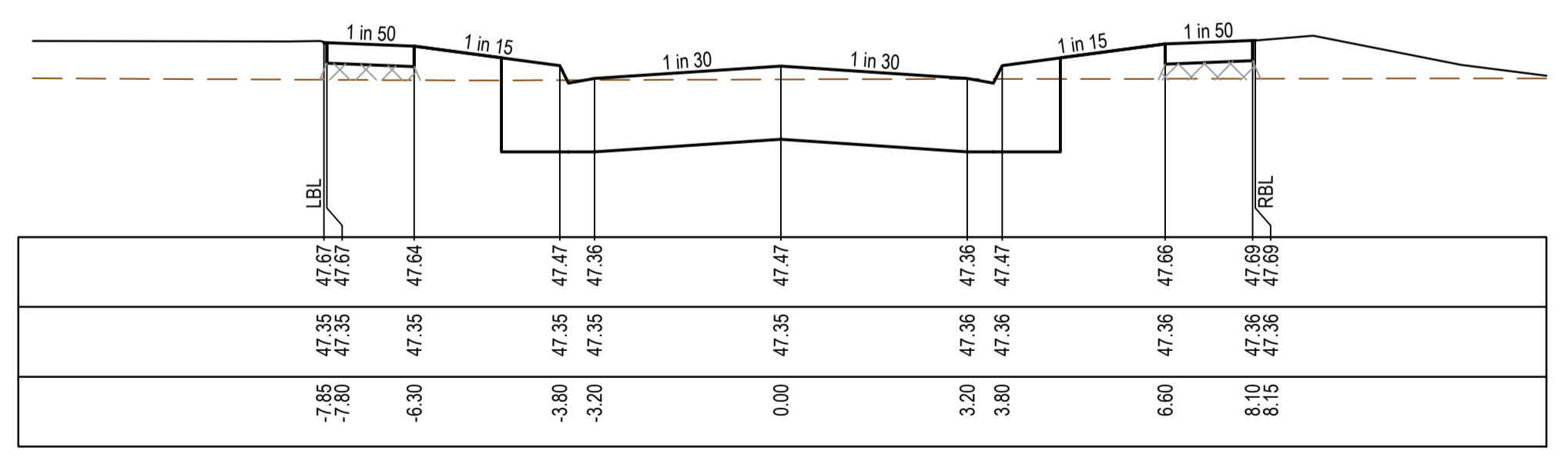
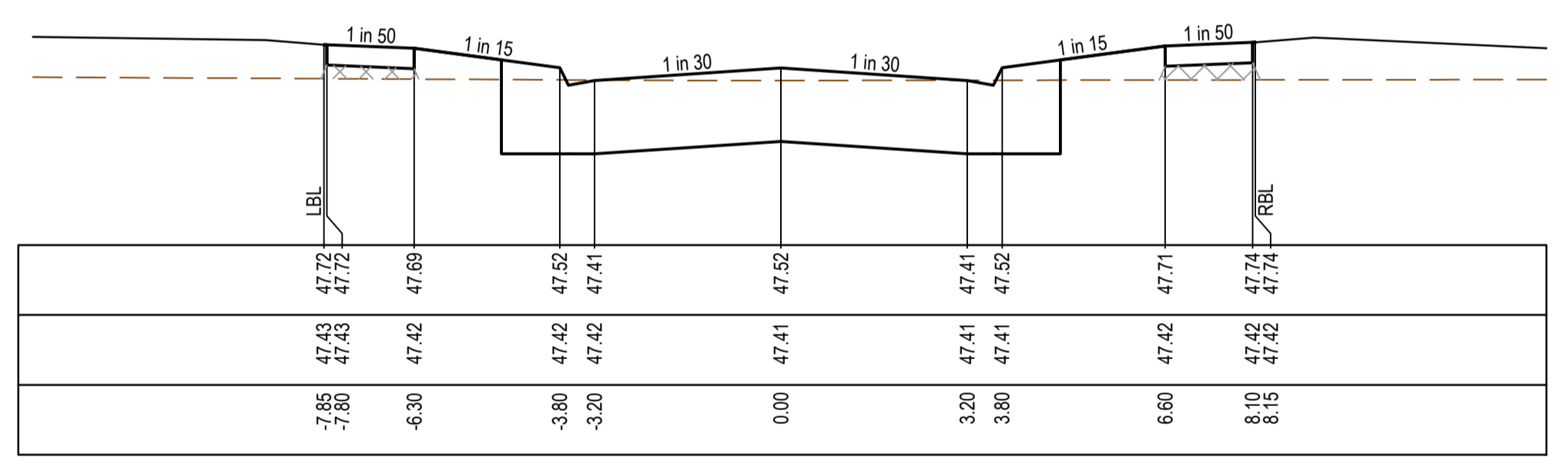
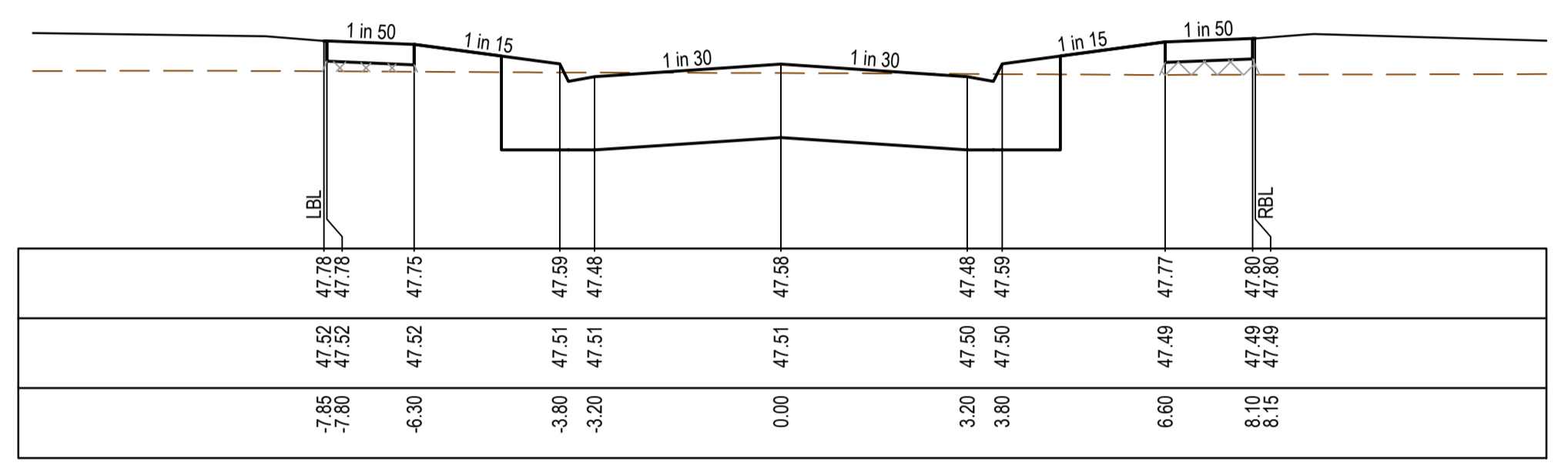
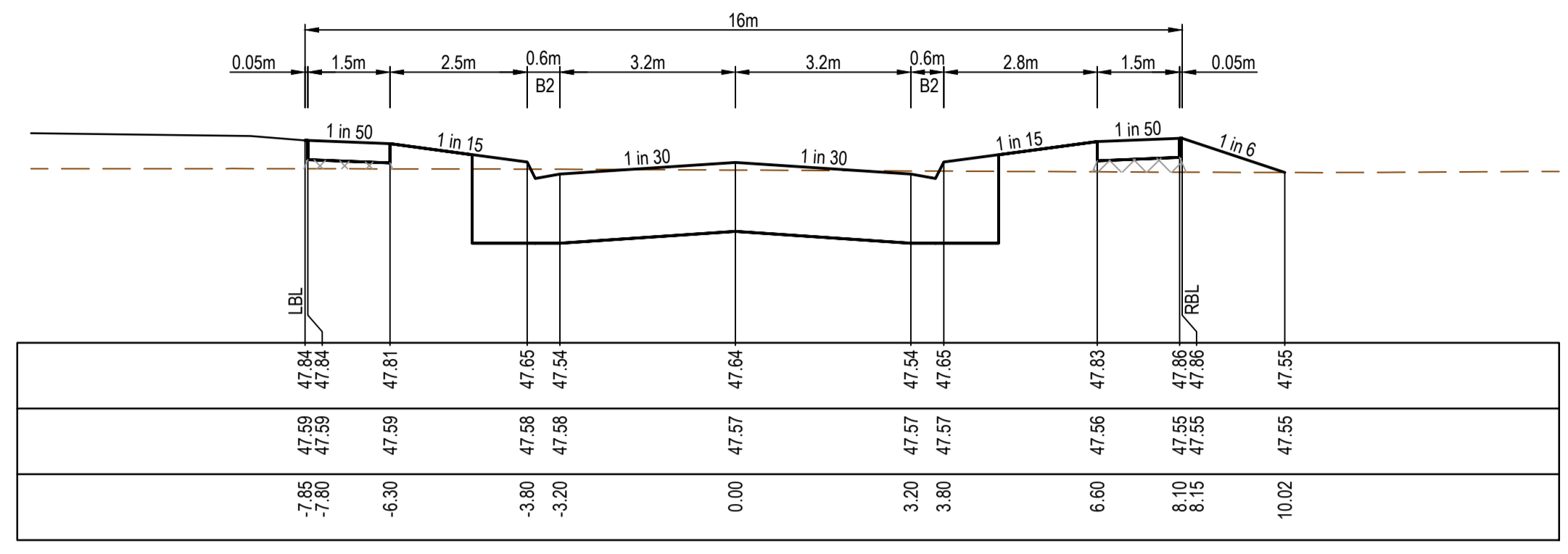
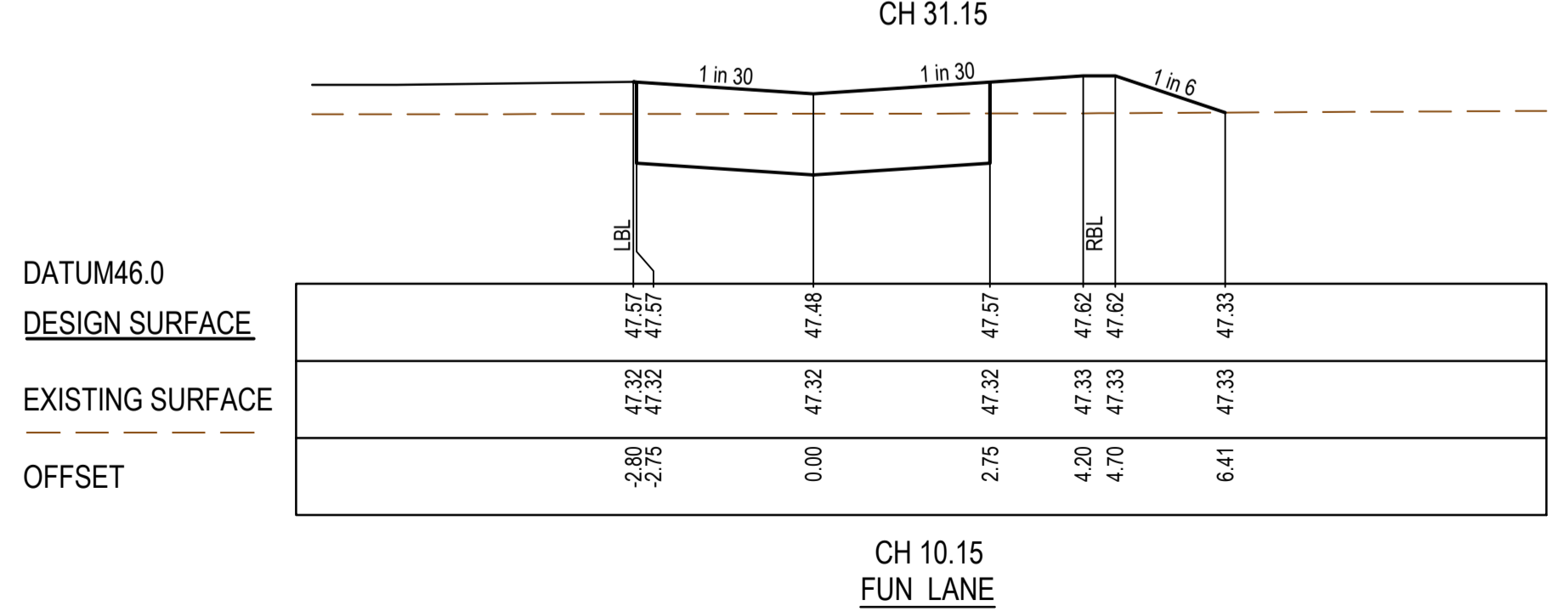
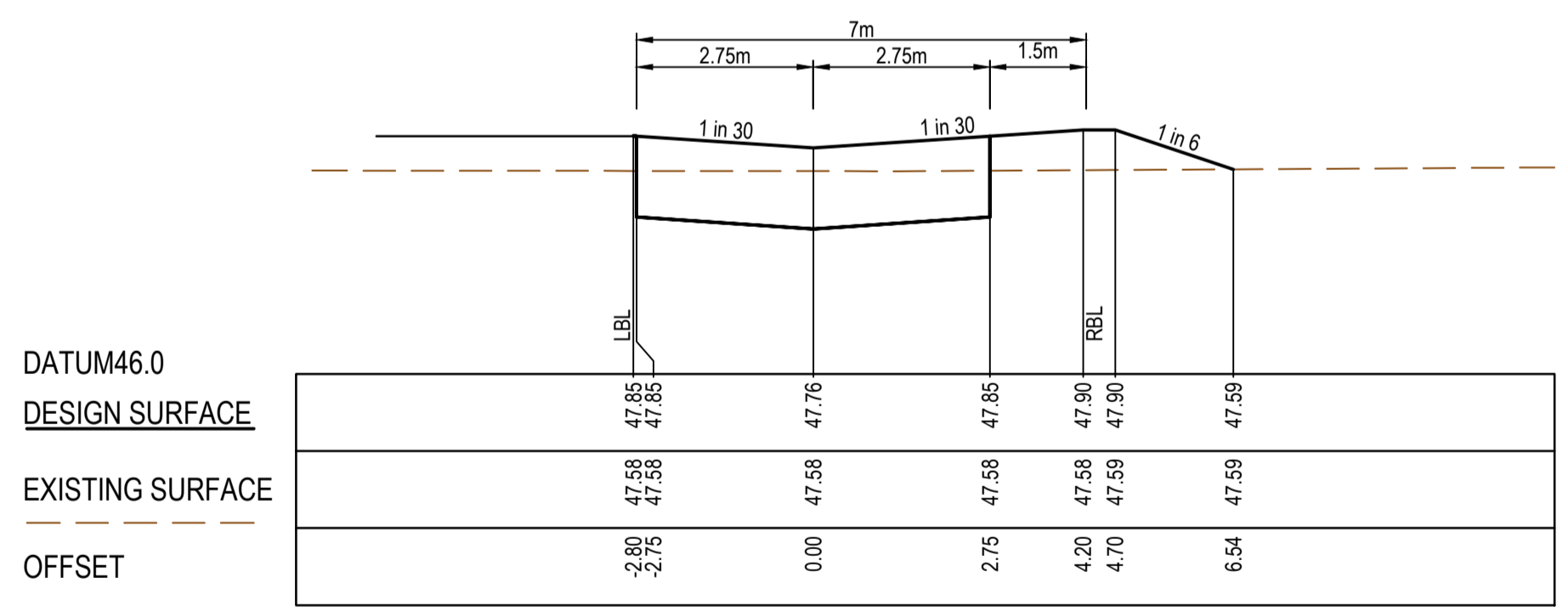




STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



KAREN ROAD

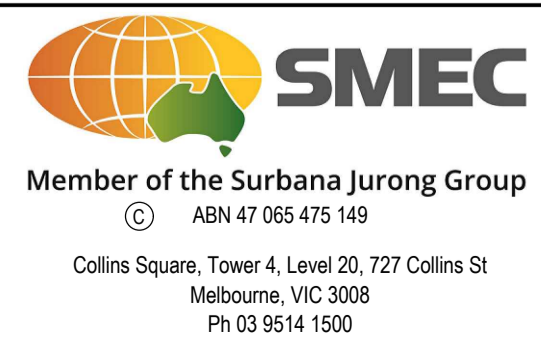
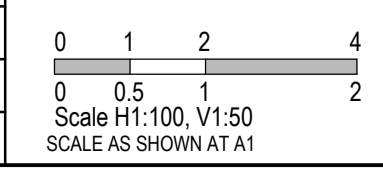


RESPECT WAY

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

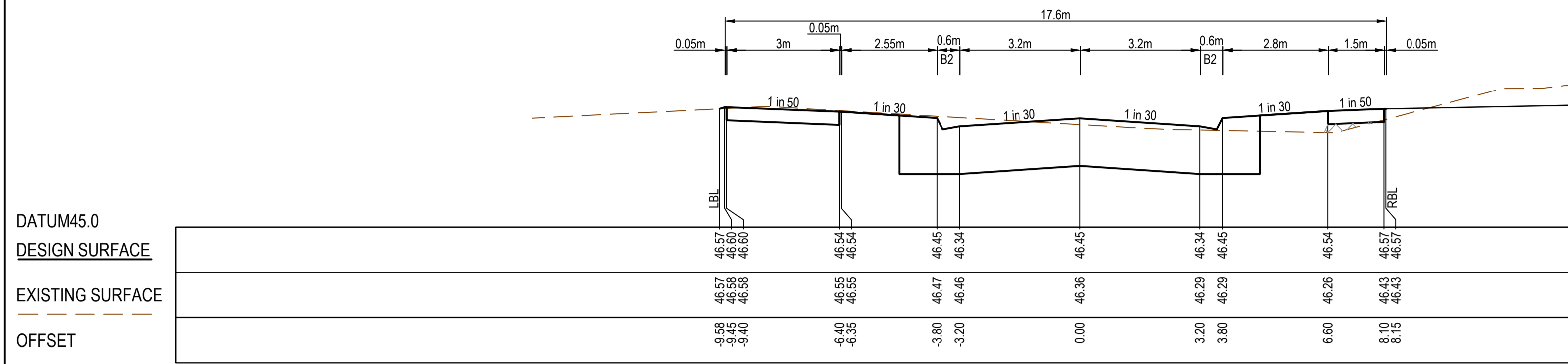
All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.		TITLE	NAME
DRAFTER	J.Chen		
DESIGNER	S.Hossain		
CHECKED	E.Wang		
AUTHORISED	B.Sanderson		
REFERENCE No. 1			
REFERENCE No. 2	2360E-03		



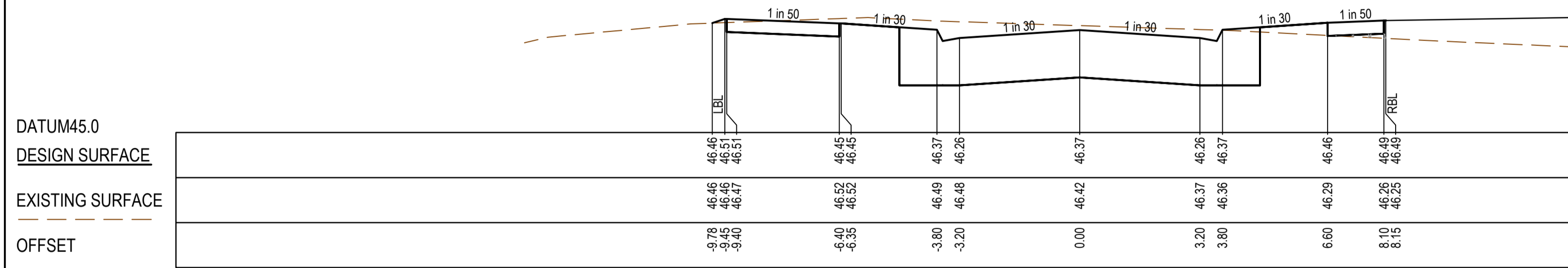
Marigold - Stage 3 Wyndham City Council Road and Drainage Cross Sections: Karen Road Ch 246.80 - Ch 268.20 and Respect Way and Fun Lane		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-12	SHEET No. 12 of 23	REVISION 0
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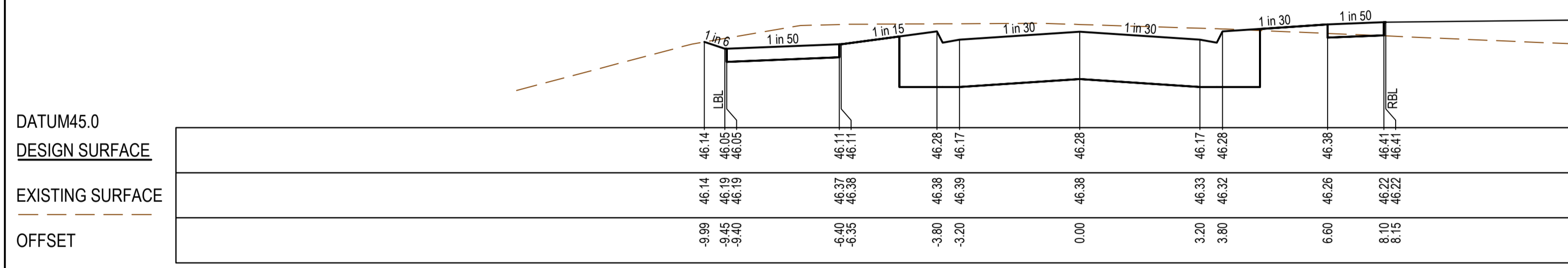
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



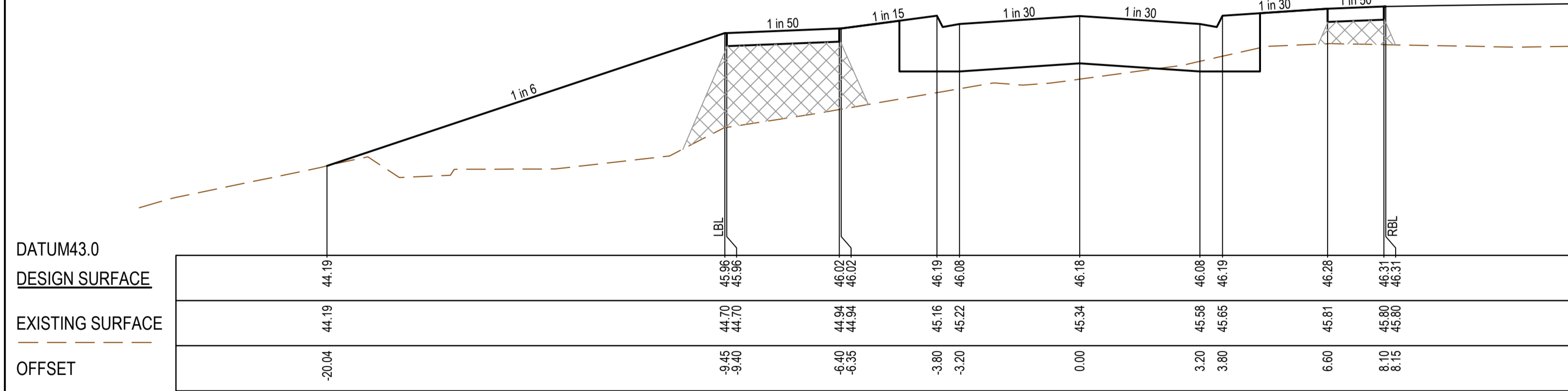
CH 88.46



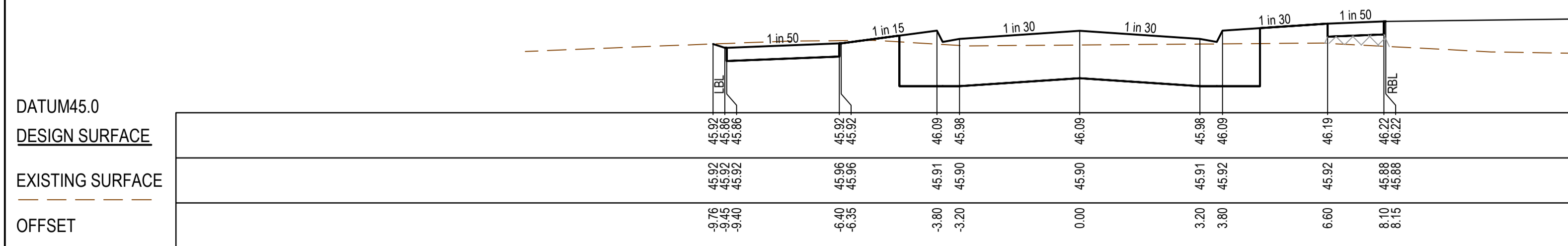
CH 72.15



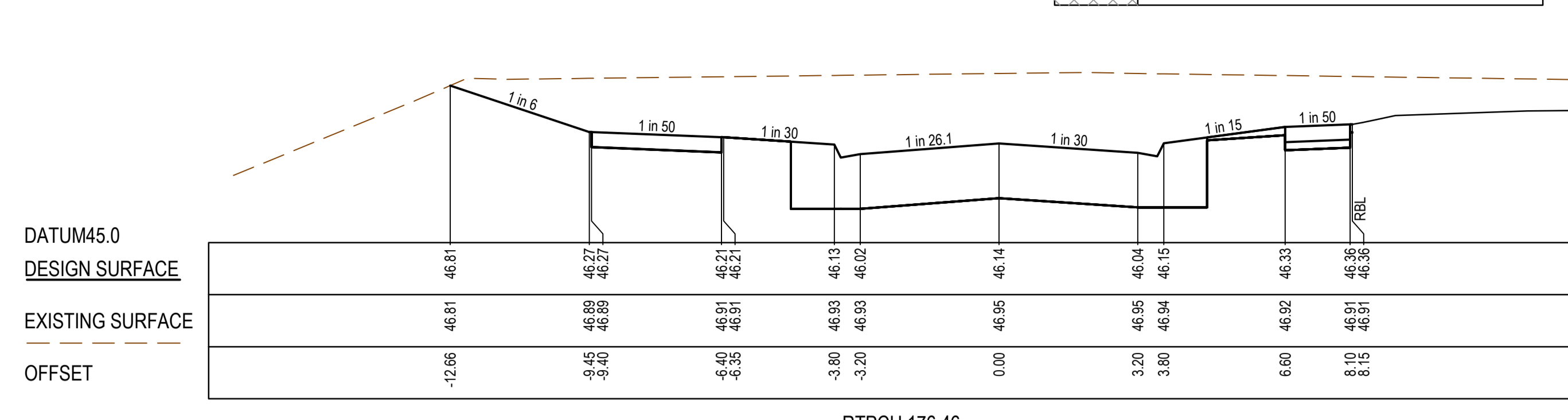
CH 54.81



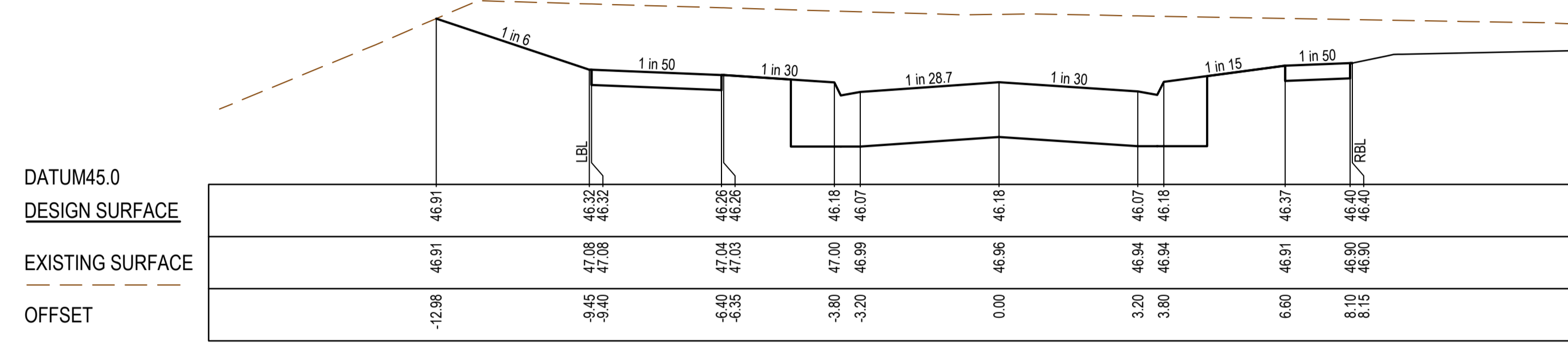
CH 35.66



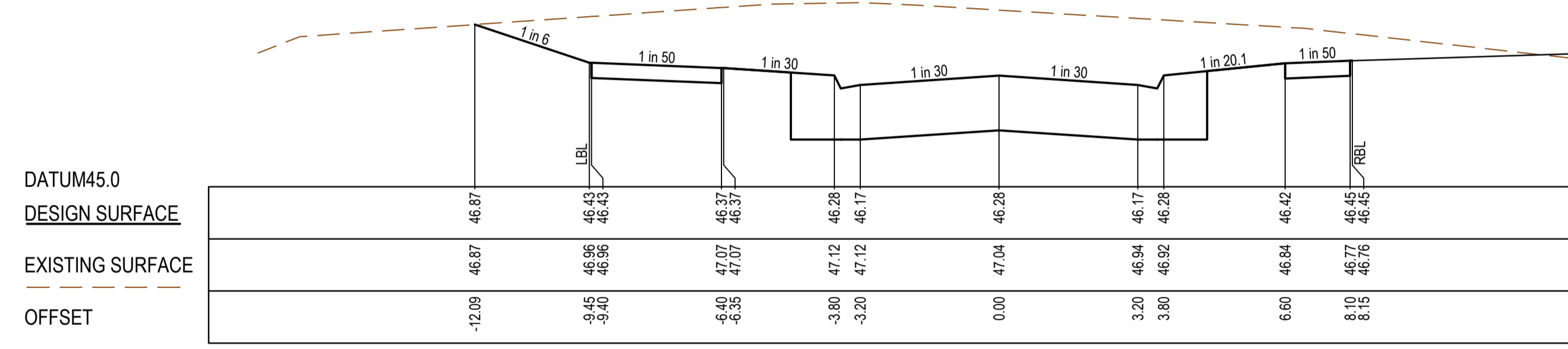
CH 17.08



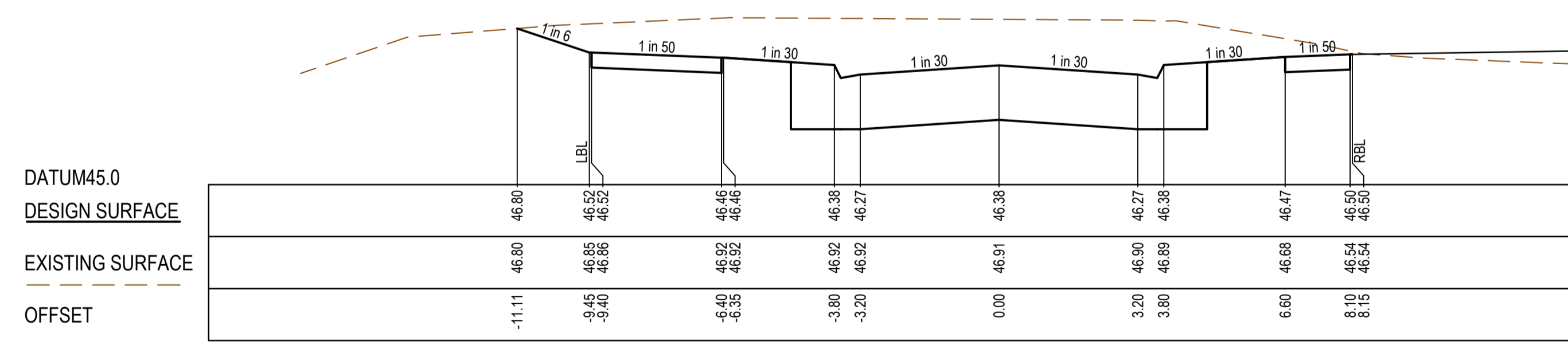
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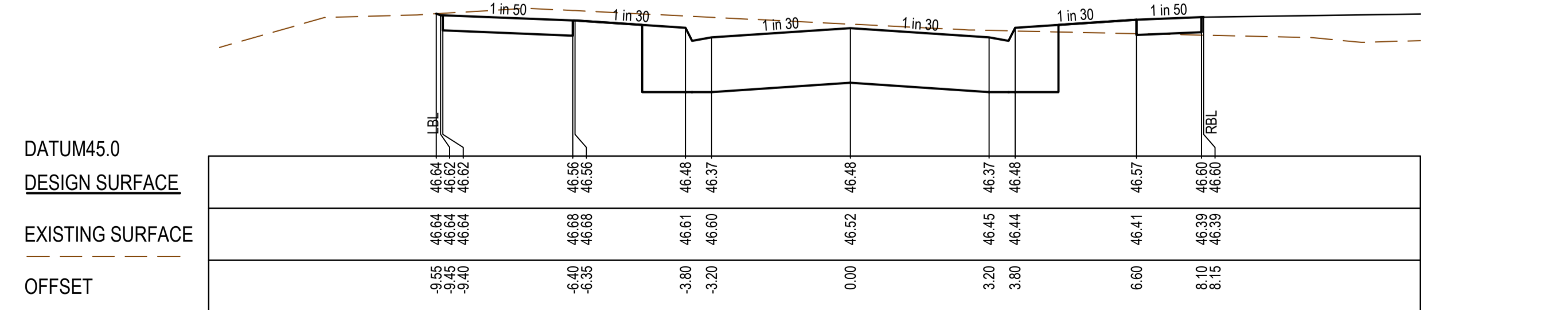
CH 168.56



CH 147.94



CH 128.92

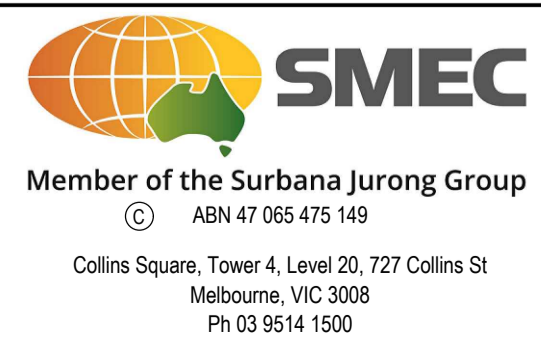
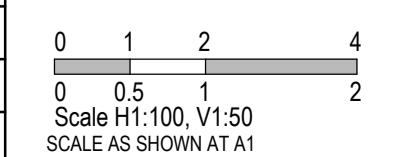


CH 109.10

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



Marigold - Stage 3  
Wynham City Council  
Road and Drainage  
Cross Sections: Keeping Terrace  
Ch 17.08 - Ch 176.46

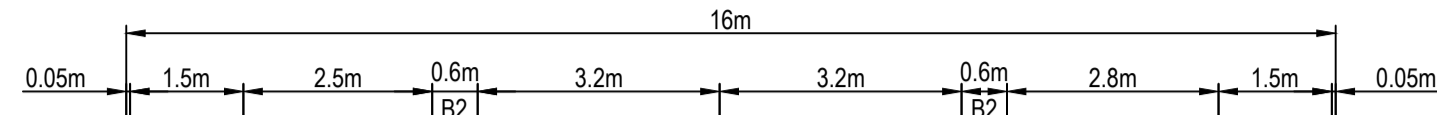
MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-03-13	13 of 23	0







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



DATUM45.0																				
DESIGN SURFACE	46.85	46.85	46.82	46.73	46.62	46.73	46.62	46.73	46.83	46.86	46.86									
EXISTING SURFACE	46.63	46.63	46.64	46.67	46.62	46.67	46.62	46.73	46.78	46.79	46.79									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 119.85

DATUM45.0																				
DESIGN SURFACE	46.95	46.95	46.92	46.84	46.73	46.84	46.73	46.84	46.93	46.96	46.96									
EXISTING SURFACE	46.57	46.57	46.59	46.61	46.61	46.65	46.70	46.71	46.74	46.77	46.77									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 98.85

DATUM46.0																				
DESIGN SURFACE	47.06	47.06	47.03	46.94	46.83	46.94	46.83	46.94	47.04	47.07	47.07									
EXISTING SURFACE	46.55	46.55	46.56	46.59	46.59	46.63	46.66	46.67	46.70	46.71	46.71									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 77.85

DATUM46.0																				
DESIGN SURFACE	47.01	47.01	46.98	46.90	46.79	46.89	46.79	46.90	46.99	47.02	47.02									
EXISTING SURFACE	46.52	46.53	46.54	46.57	46.58	46.62	46.66	46.67	46.71	46.73	46.73									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 56.85

DATUM45.0																				
DESIGN SURFACE	46.93	46.93	46.90	46.81	46.70	46.81	46.70	46.81	46.91	46.94	46.94									
EXISTING SURFACE	46.47	46.48	46.49	46.53	46.54	46.58	46.62	46.63	46.67	46.69	46.69									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 39.85

DATUM45.0																				
DESIGN SURFACE	46.70	46.70	46.76	46.68	46.57	46.68	46.57	46.68	46.77	46.80	46.80									
EXISTING SURFACE	46.56	46.56	46.57	46.60	46.61	46.65	46.67	46.67	46.68	46.68	46.68									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 168.70

DATUM45.0																				
DESIGN SURFACE	46.84	46.84	46.81	46.73	46.62	46.72	46.62	46.73	46.82	46.85	46.85									
EXISTING SURFACE	46.68	46.68	46.69	46.68	46.62	46.66	46.68	46.68	46.69	46.69	46.69									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

CH 163.85

DATUM45.0																				
DESIGN SURFACE	46.95	46.95	46.82	46.73	46.62	46.73	46.62	46.73	46.83	46.86	46.86									
EXISTING SURFACE	46.67	46.62	46.63	46.64	46.64	46.66	46.69	46.70	46.73	46.74	46.74									
OFFSET	-7.85	-7.80	-6.30	-3.80	-3.20	0.00	3.20	3.80	6.60	8.10	8.15									

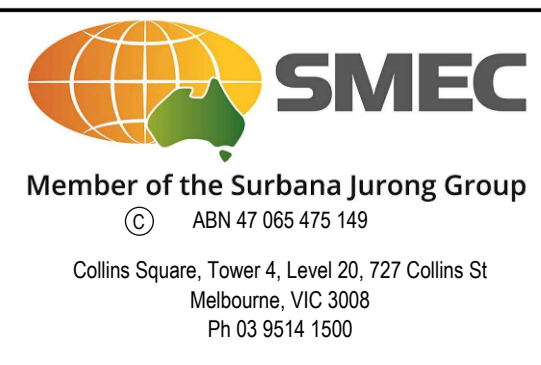
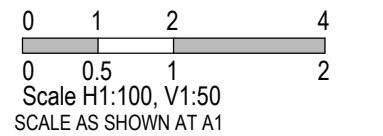
CH 142.85

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

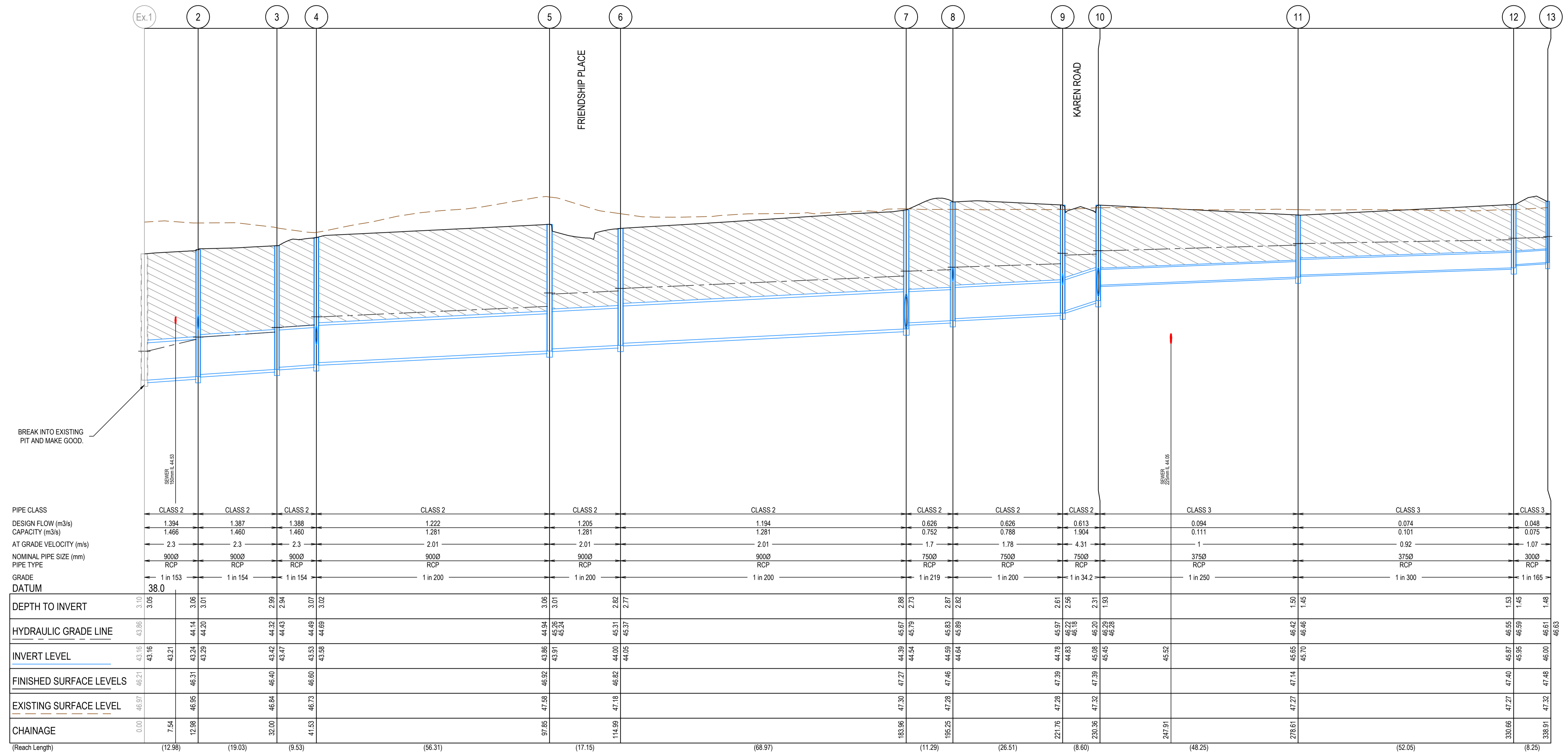


Marigold - Stage 3  
Wyndham City Council  
Road and Drainage  
Cross Sections: Spree Street

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-03-15	15 of 23	0



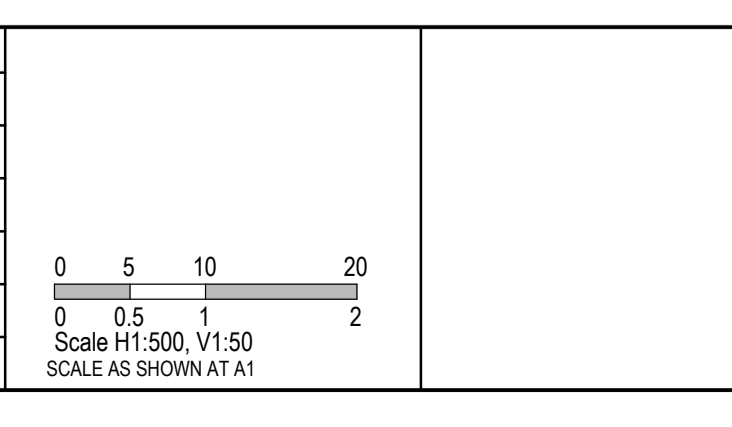
**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



**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

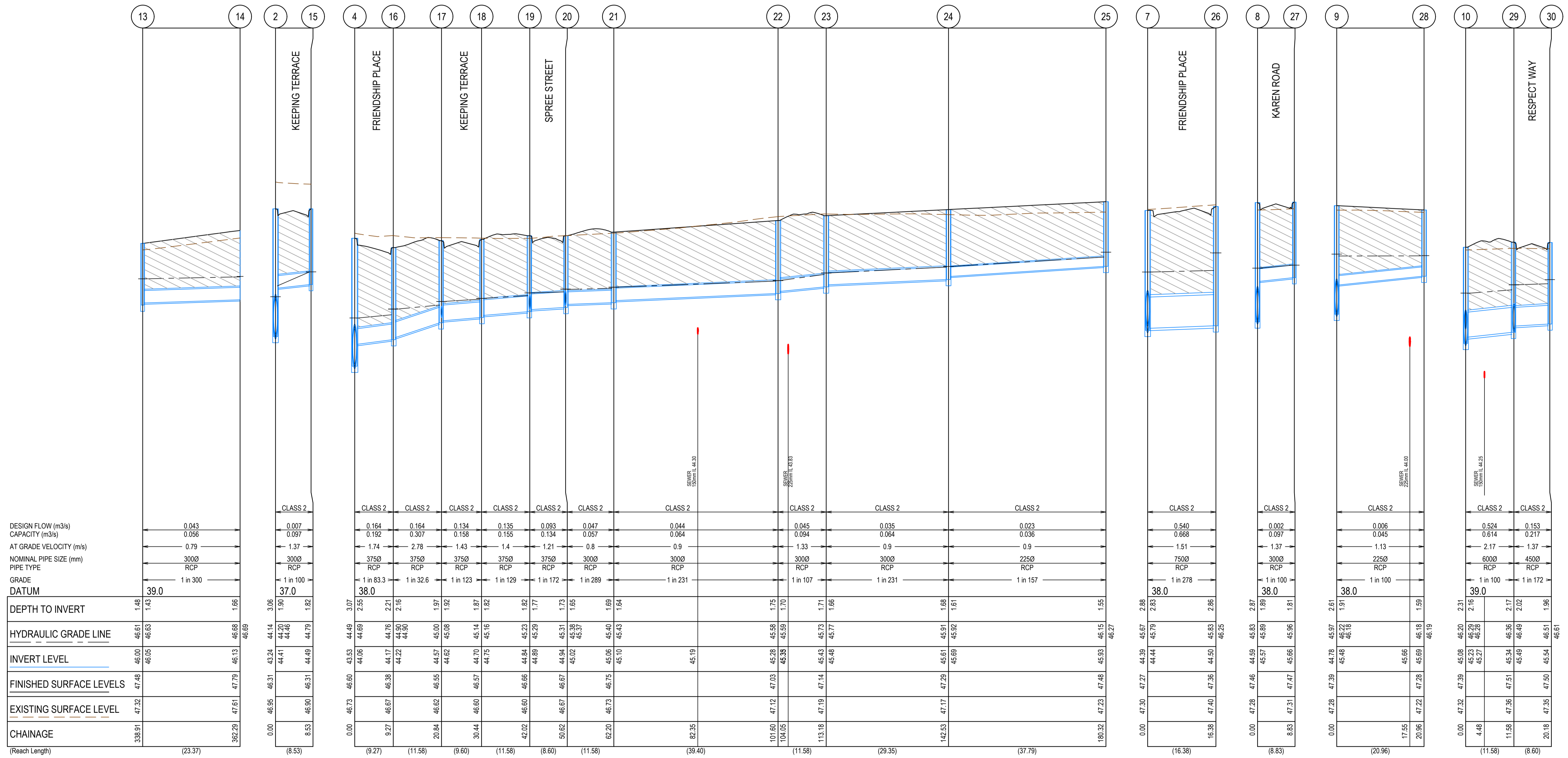
**GROWLAND**

Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 1

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-16	SHEET No. 16 of 23	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 <sup>3</sup> /s)	0.043
CAPACITY (m <sup>3</sup> /s)	0.056
AT GRADE VELOCITY (m/s)	0.79
NOMINAL PIPE SIZE (mm)	3000
PIPE TYPE	RCP
GRADE	1 in 300
DATUM	39.0
DEPTH TO INVERT	1.48
HYDRAULIC GRADE LINE	46.61
INVERT LEVEL	46.00
FINISHED SURFACE LEVELS	47.48
EXISTING SURFACE LEVEL	47.32
CHAINAGE	338.91

CLASS 2	0.007
CLASS 2	0.097
CLASS 2	1.37
CLASS 2	3000
CLASS 2	RCP
CLASS 2	1 in 100
DATUM	37.0
DEPTH TO INVERT	3.06
HYDRAULIC GRADE LINE	44.14
INVERT LEVEL	44.11
FINISHED SURFACE LEVELS	44.41
EXISTING SURFACE LEVEL	44.46
CHAINAGE	8.53

CLASS 2	0.164
CLASS 2	0.164
CLASS 2	0.134
CLASS 2	0.135
CLASS 2	0.093
CLASS 2	0.047
CLASS 2	0.044
CLASS 2	0.045
CLASS 2	0.035
CLASS 2	0.023
CLASS 2	0.540
CLASS 2	0.668
CLASS 2	1.51
CLASS 2	7500
CLASS 2	RCP
CLASS 2	1 in 278
DATUM	38.0
DEPTH TO INVERT	2.88
HYDRAULIC GRADE LINE	44.39
INVERT LEVEL	44.44
FINISHED SURFACE LEVELS	44.44
EXISTING SURFACE LEVEL	44.44
CHAINAGE	16.38

CLASS 2	0.192
CLASS 2	0.307
CLASS 2	0.158
CLASS 2	0.155
CLASS 2	0.134
CLASS 2	0.094
CLASS 2	0.064
CLASS 2	0.064
CLASS 2	0.036
CLASS 2	0.097
CLASS 2	0.045
CLASS 2	0.006
CLASS 2	0.045
CLASS 2	0.524
CLASS 2	0.614
CLASS 2	2.17
CLASS 2	6000
CLASS 2	RCP
CLASS 2	1 in 100
DATUM	38.0
DEPTH TO INVERT	2.61
HYDRAULIC GRADE LINE	44.78
INVERT LEVEL	44.82
FINISHED SURFACE LEVELS	44.82
EXISTING SURFACE LEVEL	44.82
CHAINAGE	20.96

CLASS 2	0.044
CLASS 2	0.045
CLASS 2	0.094
CLASS 2	0.134
CLASS 2	0.035
CLASS 2	0.064
CLASS 2	0.035
CLASS 2	0.023
CLASS 2	0.036
CLASS 2	0.023
CLASS 2	0.006
CLASS 2	0.045
CLASS 2	0.524
CLASS 2	0.614
CLASS 2	2.17
CLASS 2	6000
CLASS 2	RCP
CLASS 2	1 in 100
DATUM	39.0
DEPTH TO INVERT	2.31
HYDRAULIC GRADE LINE	44.78
INVERT LEVEL	44.82
FINISHED SURFACE LEVELS	44.82
EXISTING SURFACE LEVEL	44.82
CHAINAGE	20.18

CLASS 2	0.044
CLASS 2	0.045
CLASS 2	0.094
CLASS 2	0.134
CLASS 2	0.035
CLASS 2	0.064
CLASS 2	0.035
CLASS 2	0.023
CLASS 2	0.036
CLASS 2	0.023
CLASS 2	0.006
CLASS 2	0.045
CLASS 2	0.524
CLASS 2	0.614
CLASS 2	2.17
CLASS 2	6000
CLASS 2	RCP
CLASS 2	1 in 100
DATUM	39.0
DEPTH TO INVERT	2.31
HYDRAULIC GRADE LINE	44.78
INVERT LEVEL	44.82
FINISHED SURFACE LEVELS	44.82
EXISTING SURFACE LEVEL	44.82
CHAINAGE	20.18

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

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

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

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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03

**SMEC**  
 Member of the Surbana Jurong Group  
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 Collins Square, Tower 4, Level 20, 727 Collins St  
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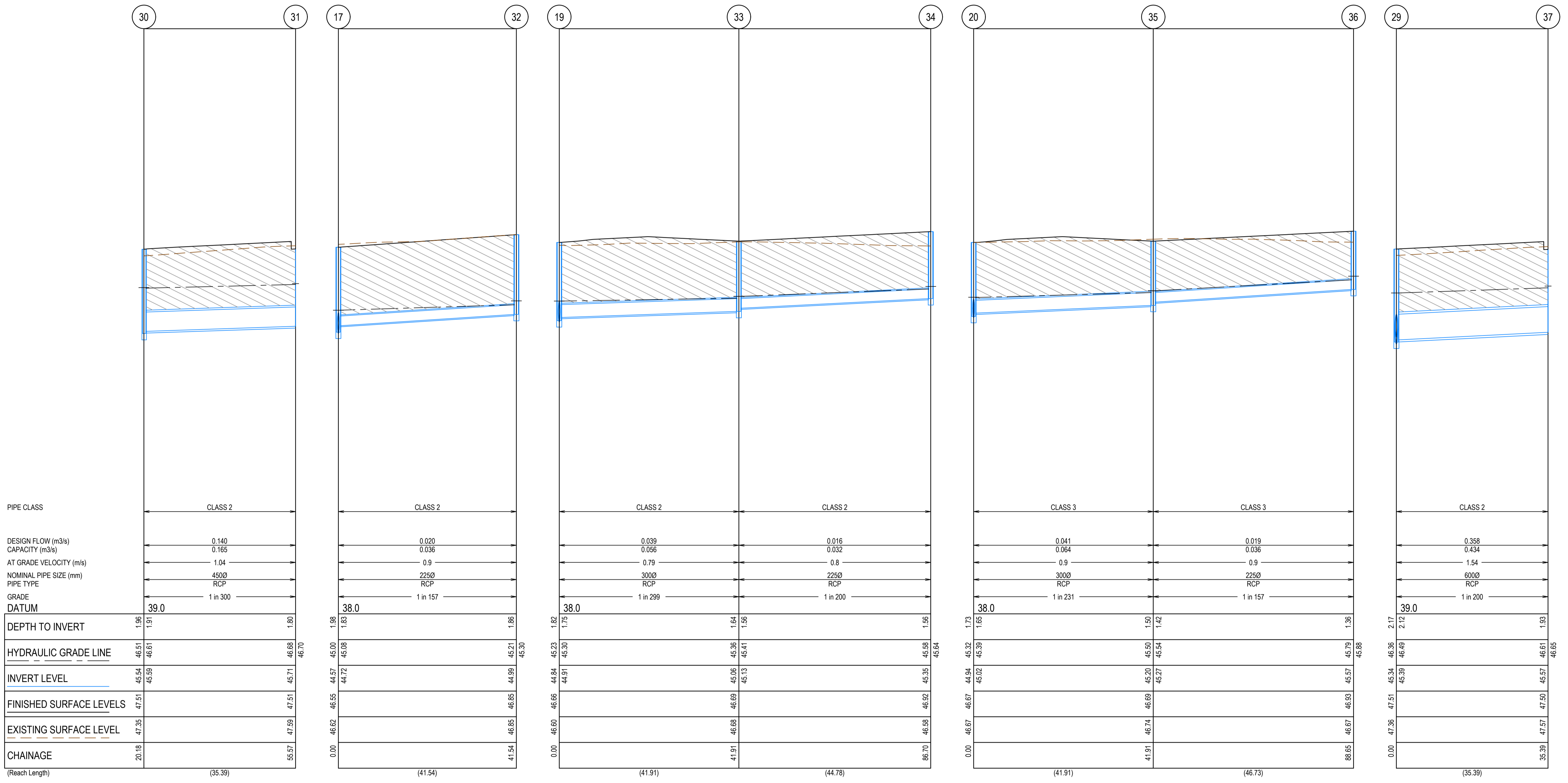
**GROWLAND**

Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 2

MELWAYS REF: 359 F9  
 PROJECT / DRAWING No: 2360E-03-17  
 SHEET No: 17 of 23  
 REVISION: 0



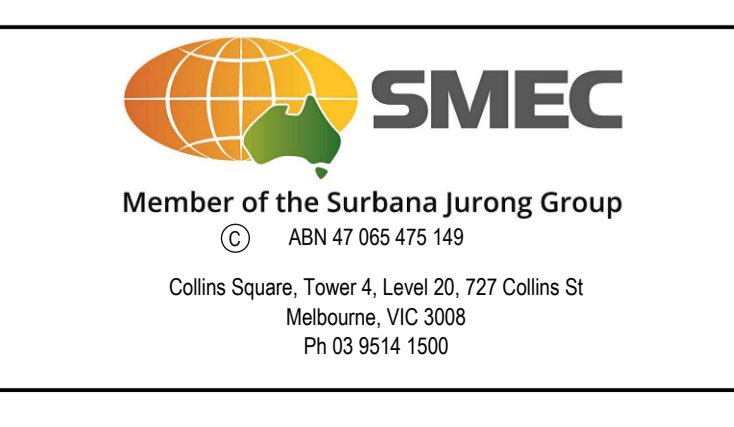
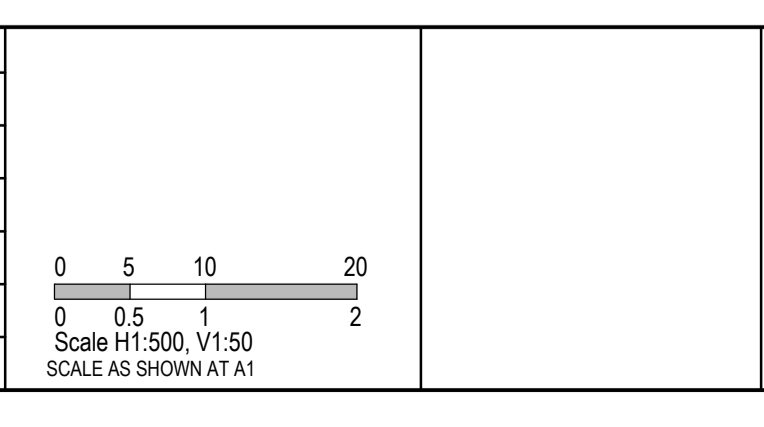
**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

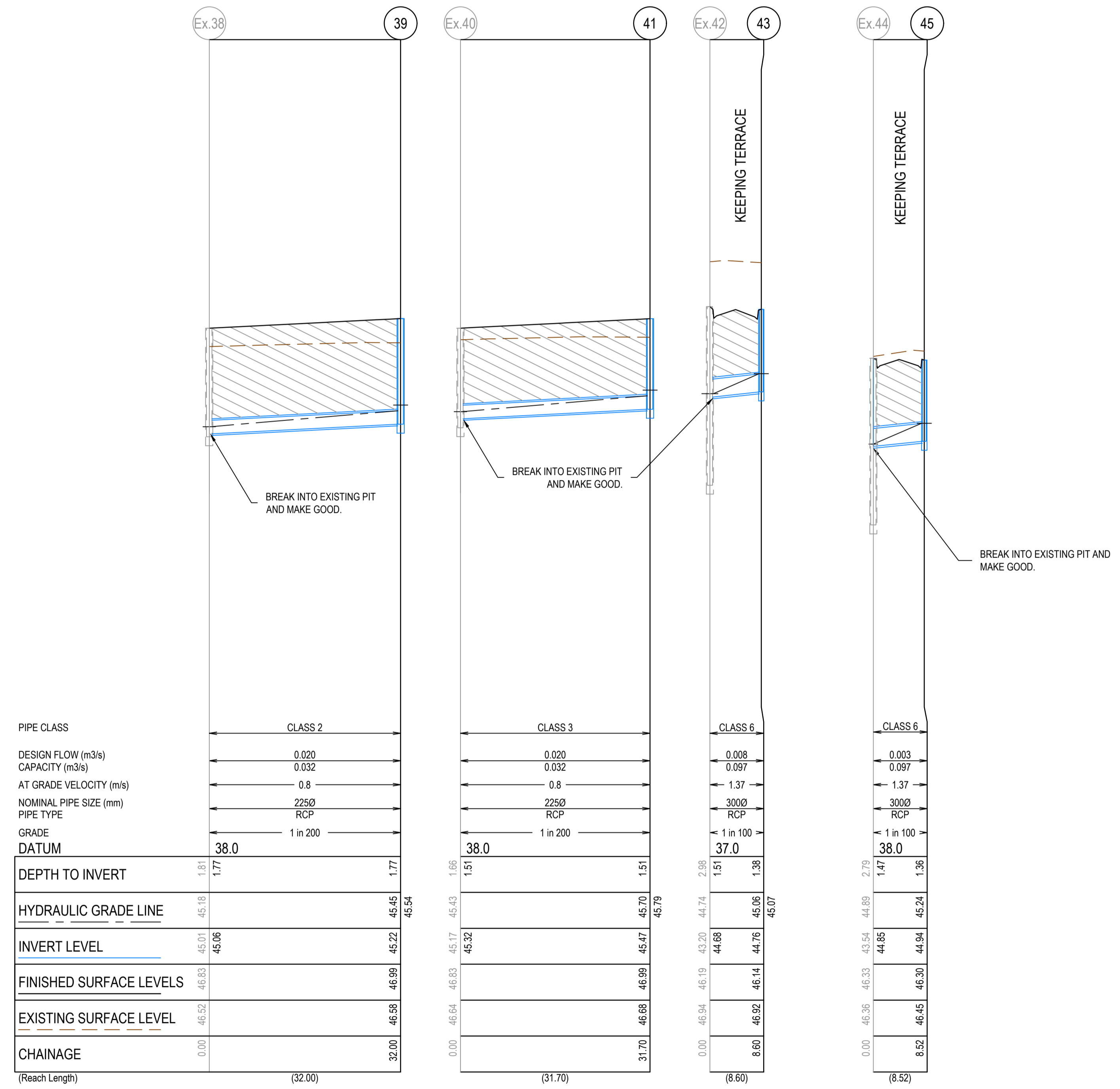
TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



<b>Marigold - Stage 3</b> <b>Wyndham City Council</b> <b>Road and Drainage</b> <b>Drainage Longitudinal Sections - 3</b>		MELWAYS REF <b>359 F9</b>	PROJECT / DRAWING No. <b>2360E-03-18</b>	SHEET No. <b>18 of 23</b>	REVISION <b>0</b>
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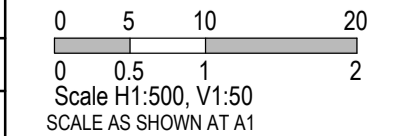
**CRUSHED ROCK BACKFILL**  
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



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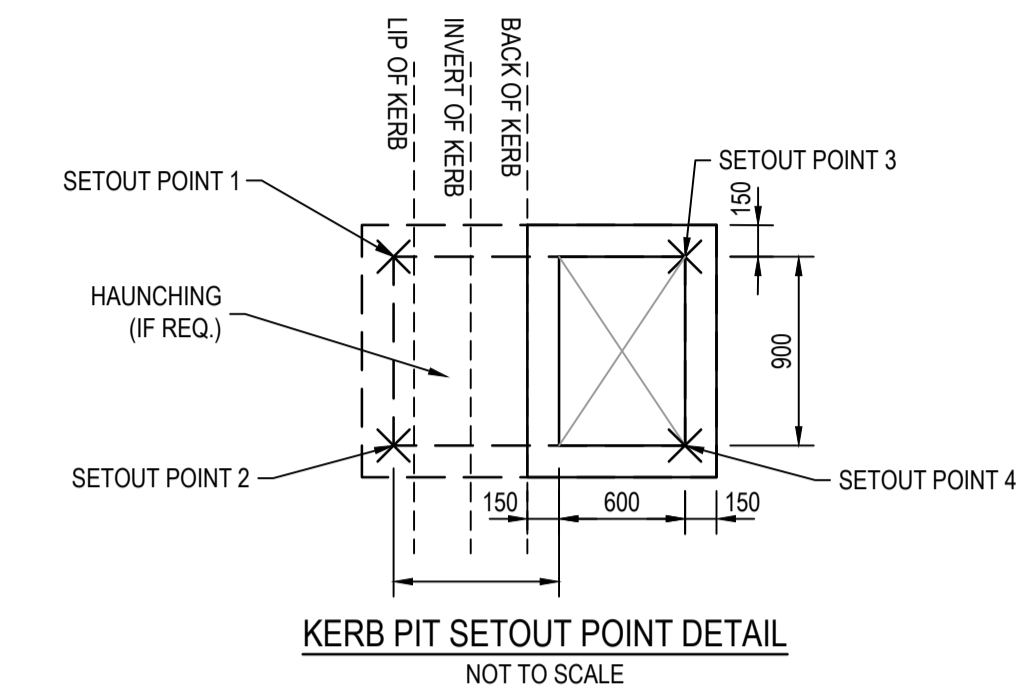
**GROWLAND**

Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Drainage Longitudinal Sections - 4

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-03-19	19 of 23	0



PIT NUMBER	TYPE	INTERNAL		INLET		OUTLET		F.S.L.	DEPTH	STANDARD DRAWING	REMARKS
		WIDTH	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
Ex.1	SIDE ENTRY PIT	Ex.1350	Ex.1050	900 Ex.825	43.157 Ex.43.157	Ex.1200	Ex.43.107	46.209	3.102	EDCM 601	CONVERT EXISTING JUNCTION PIT TO SIDE ENTRY PIT AND MAKE GOOD.
2	SIDE ENTRY PIT	1050	900	900 300	43.295 44.405	900	43.245	46.309	3.064	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607. HEAVY DUTY PIT LID.
3	JUNCTION PIT	1350	900	900	43.469	900	43.419	46.405	2.986		PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607.
4	SIDE ENTRY PIT	1200	900	900 375	43.579 44.054	900	43.529	46.602	3.073	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607. HEAVY DUTY PIT LID.
5	JUNCTION PIT	1050	1050	900	43.911	900	43.861	46.922	3.061	EDCM 607	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607. HEAVY DUTY PIT LID. CONSTRUCT PIT DEFLECTOR.
6	SIDE ENTRY PIT	1050	1050	900	44.046	900	43.996	46.822	2.826	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607. HEAVY DUTY PIT LID.
7	SIDE ENTRY PIT	1050	1050	750 750	44.541 44.441	900	44.391	47.272	2.88	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607. HEAVY DUTY PIT LID.
8	JUNCTION PIT	900	900	750 300	44.641 45.568	750	44.591	47.476	2.885	EDCM 607	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607.
9	SIDE ENTRY PIT	900	900	750 225	44.824 45.48	750	44.774	47.402	2.629	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607.
10	SIDE ENTRY PIT	900	900	375 600	45.453 45.228	750	45.078	47.369	2.291	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607.
11	DOUBLE SIDE ENTRY PIT	600	900	375	45.696	375	45.646	47.128	1.482	EDCM 601	HEAVY DUTY PIT LID.
12	SIDE ENTRY PIT	600	900	300	45.948	375	45.873	47.387	1.514	EDCM 601	
13	GRATED ENTRY PIT	900	600	300	46.048	300	45.998	47.479	1.481		
14	ENDPIPE					300	46.131	47.791	1.657		CAP OFF END OF PIPE FOR FUTURE CONNECTION.
15	SIDE ENTRY PIT	600	900			300	44.49	46.313	1.823	EDCM 601	HEAVY DUTY PIT LID.
16	SIDE ENTRY PIT	600	900	375	44.214	375	44.164	46.38	2.216	EDCM 601	
17	SIDE ENTRY PIT	600	900	375 225	44.622 44.722	375	44.572	46.552	1.98	EDCM 601	
18	JUNCTION PIT	600	900	375	44.75	375	44.7	46.581	1.881	EDCM 607	
19	SIDE ENTRY PIT	600	900	375 300	44.89 44.915	375	44.84	46.664	1.824	EDCM 601	
20	SIDE ENTRY PIT	600	900	300 300	45.015 45.015	375	44.94	46.665	1.725	EDCM 601	
21	SIDE ENTRY PIT	600	900	300	45.105	300	45.055	46.756	1.701	EDCM 601	
22	JUNCTION PIT	600	900	300	45.326	300	45.276	47.035	1.76	EDCM 607	
23	DOUBLE SIDE ENTRY PIT	600	900	300	45.467	300	45.417	47.161	1.744	EDCM 601	
24	SIDE ENTRY PIT	600	900	225	45.669	300	45.594	47.308	1.714	EDCM 601	
25	SIDE ENTRY PIT	600	900			225	45.909	47.497	1.588	EDCM 601	
26	SIDE ENTRY PIT	900	1050			750	44.5	47.333	2.833	EDCM 601	PIT TO BE HAUNCHED AS PER STANDARD DRAWING EDCM 607.
27	SIDE ENTRY PIT	600	900			300	45.656	47.453	1.797	EDCM 601	
28	JUNCTION PIT	600	900			225	45.69	47.298	1.608	EDCM 607	
29	SIDE ENTRY PIT	600	900	450 600	45.491 45.391	600	45.341	47.511	2.17	EDCM 601	
30	SIDE ENTRY PIT	600	900	450	45.591	450	45.541	47.505	1.964	EDCM 601	CONSTRUCT PIT DEFLECTOR.
31	ENDPIPE					450	45.709	47.513	1.804		CAP OFF END OF PIPE FOR FUTURE CONNECTION.
32	JUNCTION PIT	600	900			225	44.986	46.847	1.861	EDCM 607	
33	DOUBLE SIDE ENTRY PIT	600	900	225	45.13	300	45.055	46.693	1.638	EDCM 602	
34	JUNCTION PIT	600	900	225	45.354	225	45.354	46.917	1.563	EDCM 607	
35	DOUBLE SIDE ENTRY PIT	600	900	225	45.271	300	45.196	46.693	1.497	EDCM 602	
36	JUNCTION PIT	600	900			225	45.568	46.927	1.359	EDCM 607	
37	ENDPIPE					600	45.568	47.503	1.935		CAP OFF END OF PIPE FOR FUTURE CONNECTION.
Ex.38	JUNCTION PIT	Ex.900	Ex.600	225	45.064	Ex.300	Ex.45.014	46.829	1.807		
39	SIDE ENTRY PIT	600	900			225	45.224	46.989	1.765	EDCM 601	
Ex.40	JUNCTION PIT	Ex.900	Ex.600	225	45.316	Ex.300	Ex.45.166	46.829	1.663		
41	SIDE ENTRY PIT	600	900			225	45.475	46.988	1.513	EDCM 601	
Ex.42	DOUBLE SIDE ENTRY PIT	Ex.1200	Ex.900	300 Ex.825	44.678 Ex.43.225	Ex.825	Ex.43.205	46.188	2.983	EDCM 601	CONVERT EXISTING DOUBLE JUNCTION PIT TO DOUBLE SIDE ENTRY PIT AND MAKE GOOD.
43	DOUBLE SIDE ENTRY PIT	600	900			300	44.764	46.145	1.381	EDCM 602	
Ex.44	SIDE ENTRY PIT	Ex.1050	Ex.900	300 Ex.825	44.938 Ex.43.562	Ex.825	Ex.43.542	46.331	2.788		CONVERT EXISTING JUNCTION PIT TO SIDE ENTRY PIT AND MAKE GOOD.
45	SIDE ENTRY PIT	600	900			300	44.94	46.3	1.36	EDCM 601	



Pit 2			Pit 7		
	E	N		E	N
Setout Point 1	296268.7473	5811852.9276	Setout Point 1	296211.5181	5811971.2680
Setout Point 2	296268.6556	5811852.0322	Setout Point 2	296211.4111	5811970.2235
Setout Point 3	296267.7027	5811853.0345	Setout Point 3	296212.5626	5811971.1611
Setout Point 4	296267.6111	5811852.1392	Setout Point 4	296212.4557	5811970.1165
Pit 3			Pit 8		
	E	N		E	N
Setout Point 1	296270.9735	5811871.8252	Setout Point 1	296220.5965	5811978.1636
Setout Point 2	296270.8818	5811870.9299	Setout Point 2	296221.4918	5811978.0719
Setout Point 3	296269.6305	5811871.9627	Setout Point 3	296220.5048	5811977.2683
Setout Point 4	296269.5388	5811871.0674	Setout Point 4	296221.4001	5811977.1766
Pit 4			Pit 9		
	E	N		E	N
Setout Point 1	296264.9357	5811880.5254	Setout Point 1	296246.9674	5811975.4627
Setout Point 2	296265.7814	5811880.2094	Setout Point 2	296247.8627	5811975.3710
Setout Point 3	296264.5189	5811879.4020	Setout Point 3	296246.8757	5811974.5674
Setout Point 4	296265.3614	5811879.0853	Setout Point 4	296247.7710	5811974.4757
Pit 5			Pit 10		
	E	N		E	N
Setout Point 1	296208.5403	5811886.3345	Setout Point 1	296247.7111	5811982.7247
Setout Point 2	296209.5848	5811886.2276	Setout Point 2	296248.6064	5811982.6330
Setout Point 3	296208.4333	5811885.2900	Setout Point 3	296247.8028	5811983.6200
Setout Point 4	296209.4778	5811885.1830	Setout Point 4	296248.6981	5811983.5283
Pit 6			Pit 26		
	E	N		E	N
Setout Point 1	296204.4797	5811902.6624	Setout Point 1	296204.3313	5811984.0934
Setout Point 2	296204.3727	5811901.6179	Setout Point 2	296205.3811	5811984.1142
Setout Point 3	296205.5242	5811902.5555	Setout Point 3	296204.3164	5811984.9932
Setout Point 4	296205.4173	5811901.5109	Setout Point 4	296205.3662	5811985.0141

REV 0 1	DATE 08.08.19 27.11.19	AMENDMENT / REVISION DESCRIPTION ISSUED FOR CONSTRUCTION PIT HAUNCHING DETAILS ADDED AND PIT 6 HD PIT LID	DESIGN SH/JC SH/JC	APPROVAL BS BS	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	SCALE AS SHOWN AT A1	Member of the Surbana Jurong Group ABN 47 065 475 149 Collins Square, Tower 4, Level 20, 727 Collins St Melbourne, VIC 3008 Ph 03 9514 1500		Marigold - Stage 3 Wyndham City Council Road and Drainage Pit Schedule, General Notes & Details	MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-20	SHEET No. 20 of 23	REVISION 1
<b>ISSUED FOR CONSTRUCTION</b>							DRAFTER DESIGNER CHECKED AUTHORISED REFERENCE No. 1 REFERENCE No. 2					J.Chen S.Hossain E.Wang B.Sanderson	2360E-03		



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



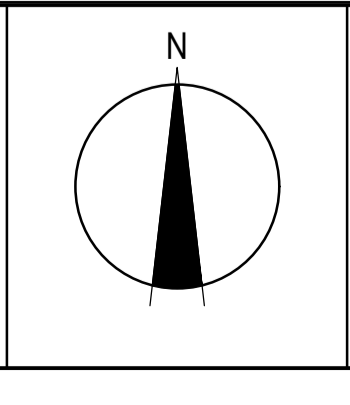
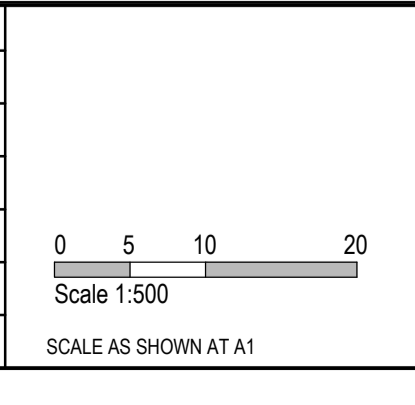
**WARNING**  
**BEWARE OF UNDERGROUND SERVICES**  
 The locations of underground services are approximate only and their exact position should be proven on site.  
 No guarantee is given that all existing services are shown.  
 Locate all underground services before commencement of works  
**DIAL 1100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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



**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

**GROWLAND**

MELWAYS REF <b>359 F9</b>	PROJECT / DRAWING No. <b>2360E-03-21</b>	SHEET No. <b>21 of 23</b>	REVISION <b>0</b>
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PAVEMENT PLAN  
SCALE 1:1000

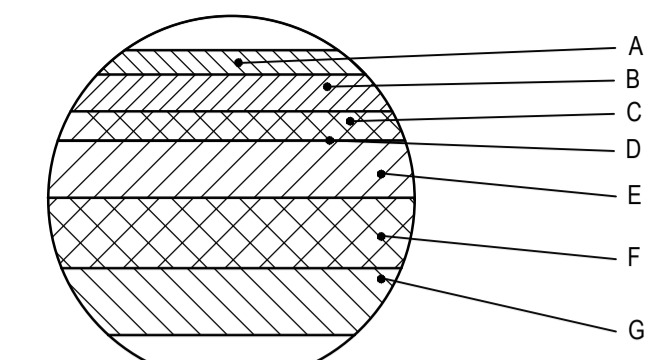
625mm FRIENDSHIP WAY, KAREN ROAD, SPREE STREET, RESPECT WAY AND KEEPING TERRACE  
PAVEMENT COMPOSITION (TYPE A)

PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
B BASE COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
C SEALING LAYER	10	SIZE 10 SAMI S18RF
D BONDING LAYER		BITUMINOUS PRIME OR PRIMERSEAL
E BASE	130	SIZE 20 CLASS 2 FCR, COMPACTED DEPTH, COMPACTED TO A MEAN DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289.5.2.1
F SUBBASE	175	SIZE 20 CLASS 3 FCR, COMPACTED DEPTH, COMPACTED TO A MEAN DENSITY RATIO OF 97% (MODIFIED) MAXIMUM DRY DENSITY AS1289.5.2.1
G CAPPING LAYER	250	TYPE A MATERIAL CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$ m/s SUBGRADE (DESIGN CBR 2%), COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289.5.1.1

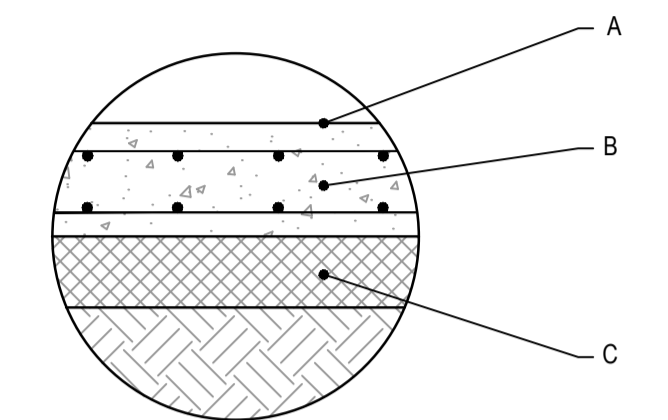
400mm FUN LANE PAVEMENT COMPOSITION

PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A CONCRETE	200	32MPa CONCRETE WITH SL82 MESH LOCATED 50mm FROM TOP MESH TO HAVE 50mm COVER ALL EDGES
B INTERMEDIATE COURSE 1	50	SIZE 20 CLASS 3 CRUSHED ROCK
C CAPPING LAYER	150	TYPE A CAPPING LAYER CBR ≥8%, SWELL ≤1.5% & PERMEABILITY $k \leq 1 \times 10^{-9}$ m/s SUBGRADE (DESIGN CBR 3%)

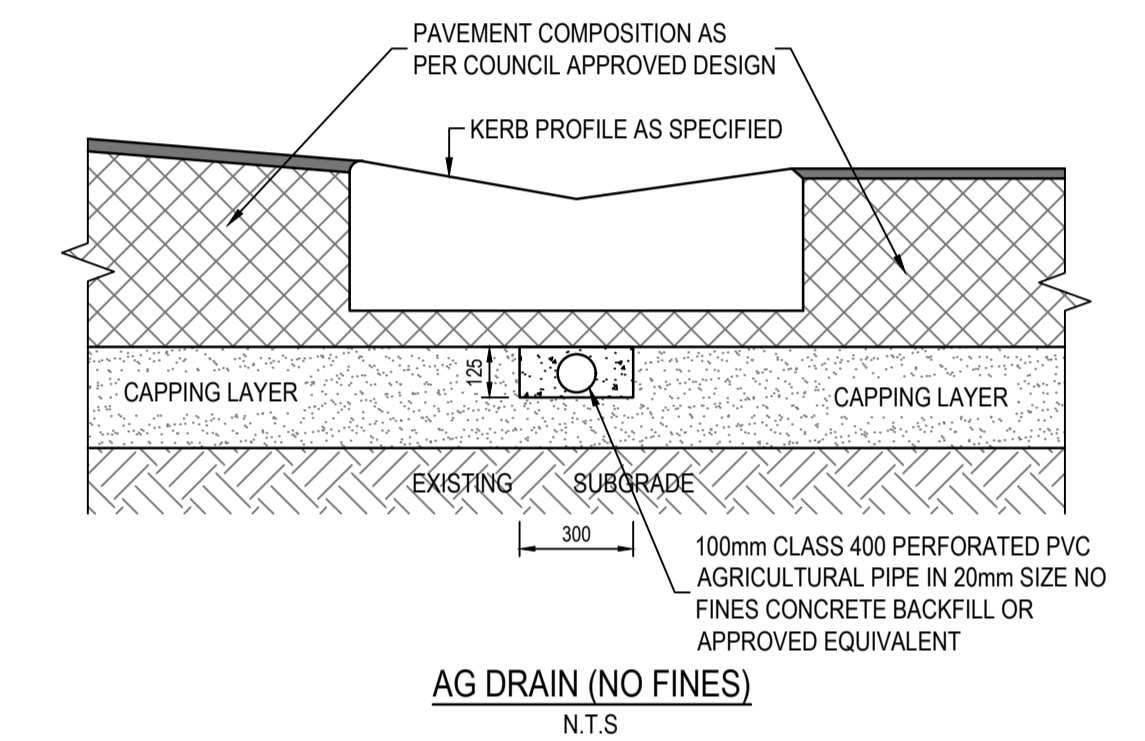
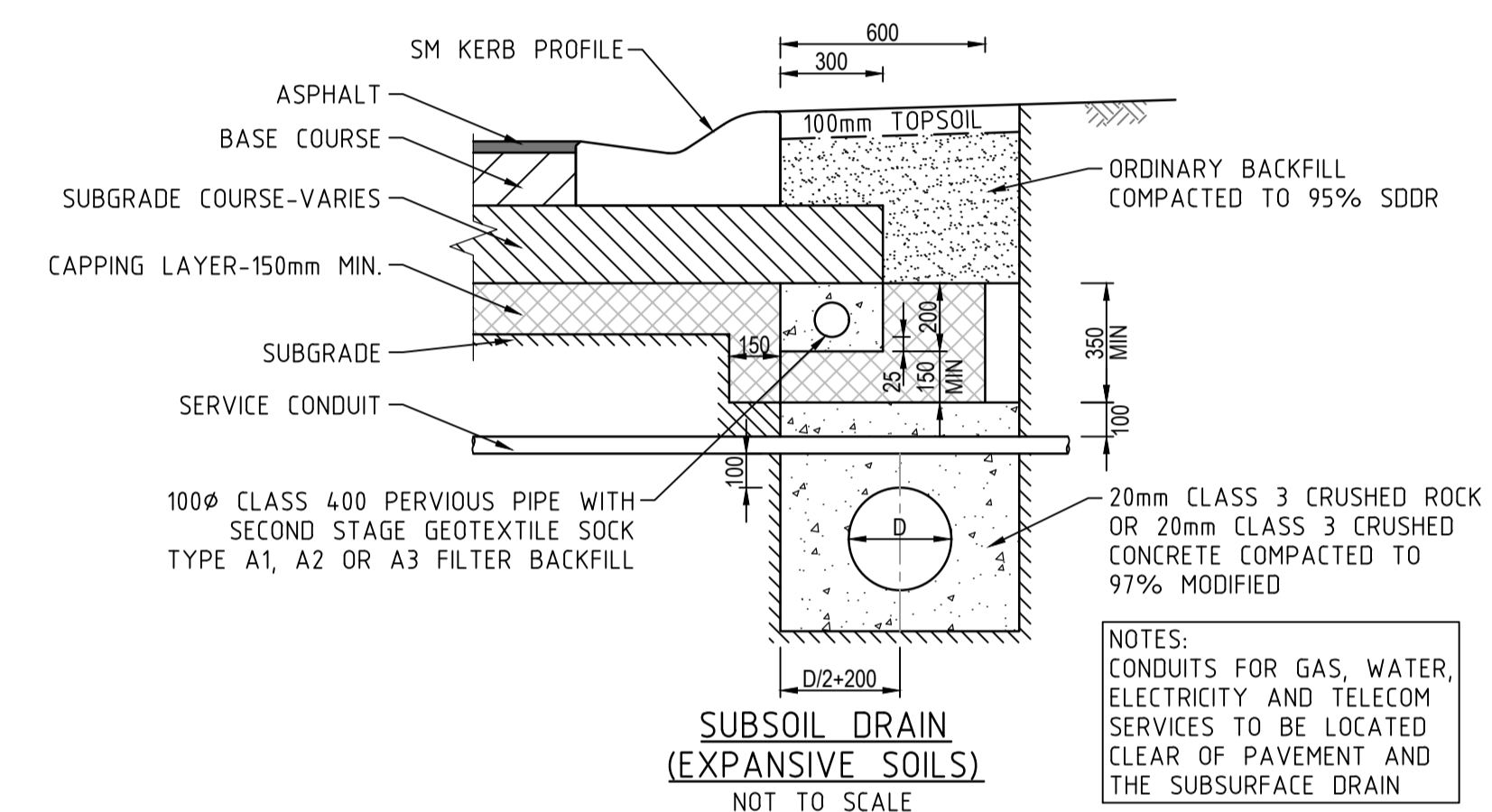
THE PAVEMENT SHOULD COMPRISE ROAD BASE OR SUBBASE QUALITY MATERIALS SPREAD IN LAYERS NOT EXCEEDING 200mm LOOSE LAYER THICKNESS, MOISTURE CONDITIONED TO WITHIN ± 2% MODIFIED OPTIMUM MOISTURE CONTENT (OMC) AND COMPACTED TO A DRY DENSITY RATIO OF 98% MODIFIED, PLACES IN ACCORDANCE WITH VICROADS REQUIREMENT.



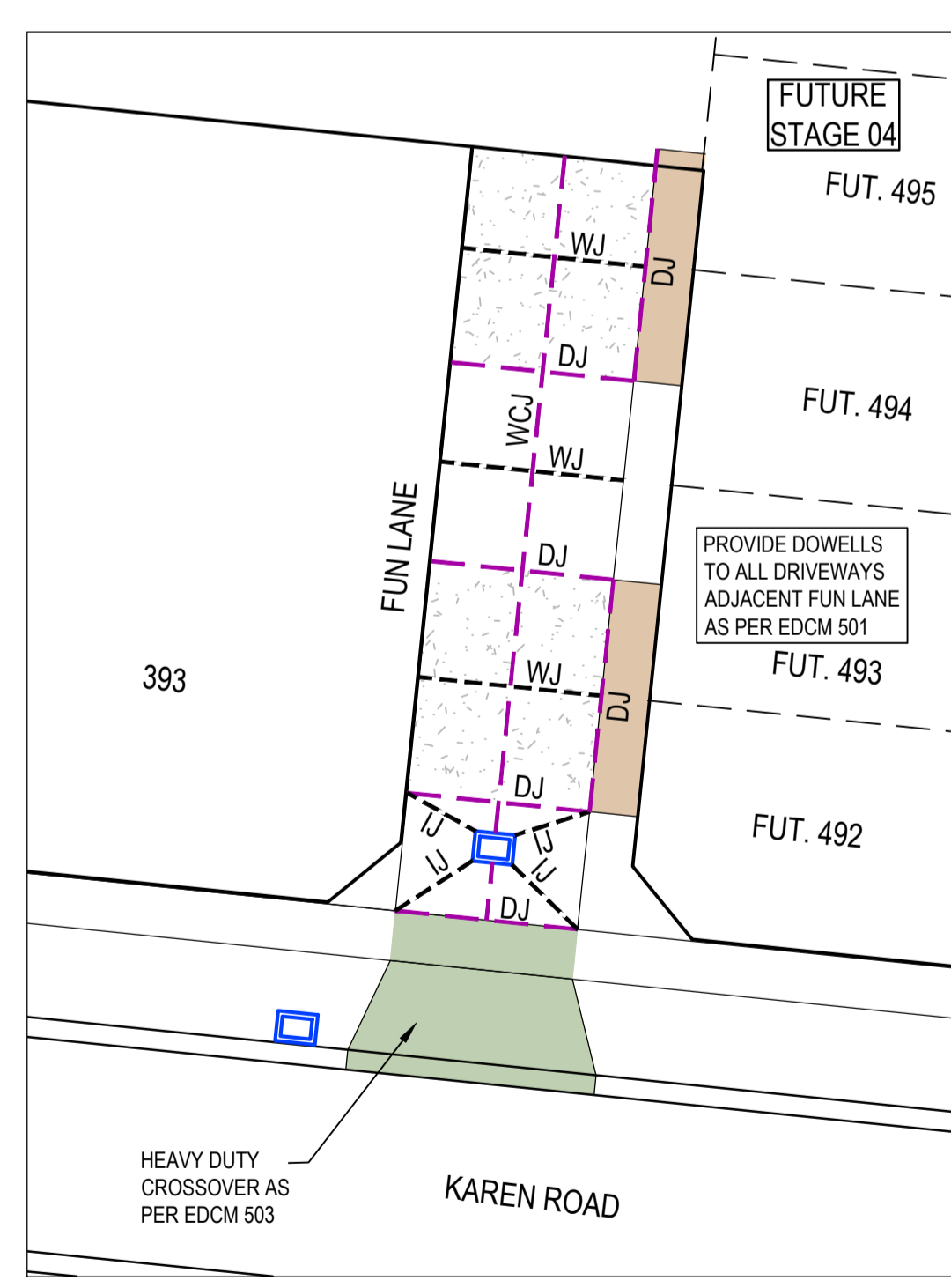
ASPHALT PAVEMENT COMPOSITION  
KEY DIAGRAM



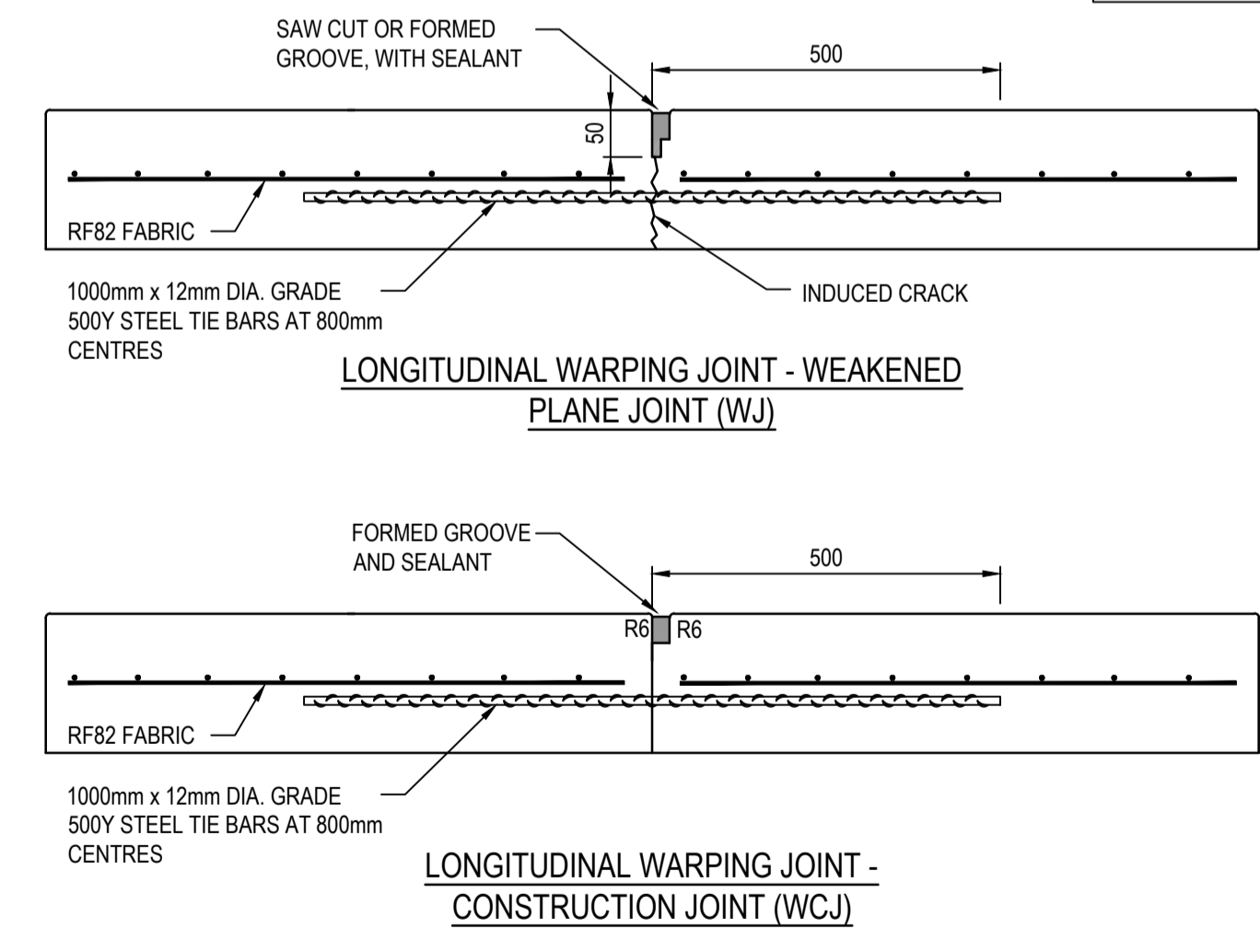
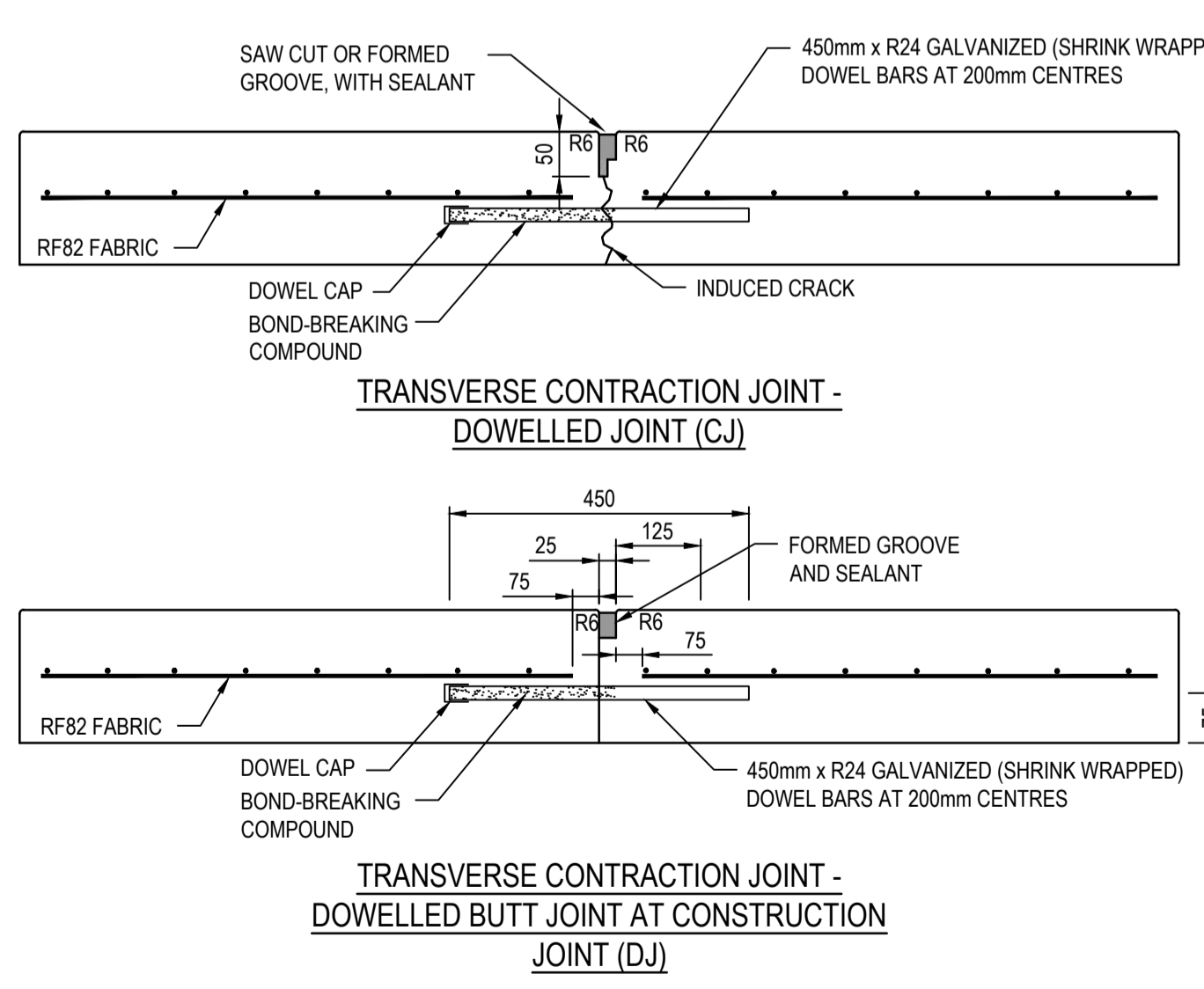
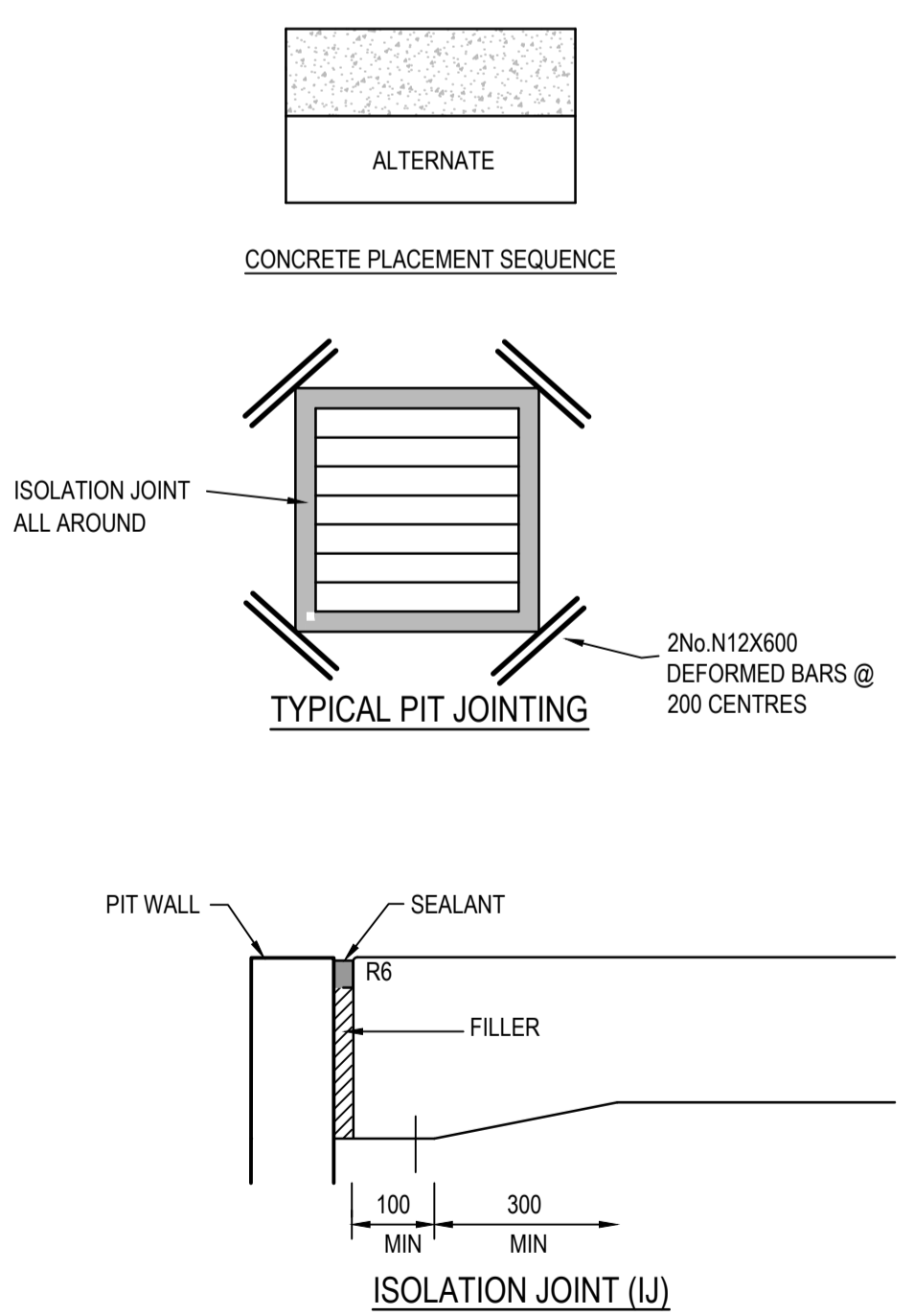
CONCRETE ROAD  
PAVEMENT COMPOSITION  
KEY DIAGRAM



PAVEMENT NOTE  
ALL PAVEMENT DESIGNS HAVE BEEN PROVIDED BY TONKIN & 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 MARIGOLD ESTATE, 1030 DOHERTHY'S ROAD, TARNEIT DOCUMENT 1008776.1000.V3 MAY 2019. 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.



FUN LANE CONCRETE JOINTING PLAN  
SCALE 1:200



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

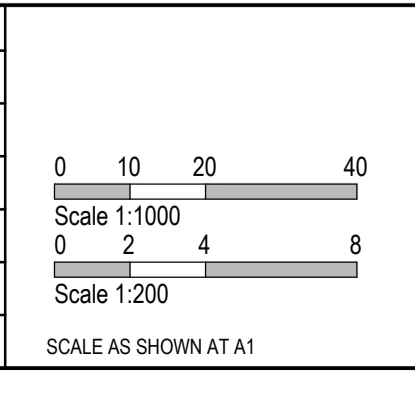
- NOTES:
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICKED UNTIL AT LEAST SEVEN DAYS AFTER POURING.

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

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
0	08.08.19	ISSUED FOR CONSTRUCTION	SH/JC	BS

**ISSUED FOR CONSTRUCTION**

TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	2360E-03



**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

**GROWLAND**



MELWAYS REF <b>359 F9</b>	PROJECT / DRAWING No. <b>2360E-03-22</b>	SHEET No. <b>22 of 23</b>	REVISION <b>0</b>
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**Safety in Design**

Project Name: Marigold Stage 03		Design Package: 2360E-03		Date: 07.06.2019											
PHASE	DISCIPLINE CODE	RISK REGISTER -Construction- Operations- Maintenance POTENTIAL RISK			RISK OWNER	POTENTIAL CONSEQUENCES	POTENTIAL ELIMINATION MEASURE, DESIGN INITIATIVE or CONTROL ( Identify any Standard or Code of practice used)	HOW ISSUE ADDRESSED IN DESIGN AND/OR CONSTRUCTION OF THE WORKS	IS THE RISK ELIMINATED YES/NO	If not eliminated Score residual risk			RESIDUAL RISK OWNER		
									"Residual Risk Likelihood (0-5)"	"Residual Risk Consequence (0-5)"	"Residual Risk Rating"				
			<b>Road Furniture / Roadside features</b>												
Construction	RD	Roads	Construction close to live traffic	Contractor	New works will be constructed adjacent to live traffic when abutting existing stages.	Disruptions to live traffic, construction incident involving live traffic.	Provide safe temporary traffic control (TCP)	TCP provided within contract	N	5	3	15	Constructor		
Construction	US	Utilities or Services	Utilities become a hazard within clear zones	Contractor	Vehicle conflict with utility / pit	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	Road Authority	Inadequate drivers response time.	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	Road Authority	Potential for drivers / riders to strike signs and street lights	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	Road Authority	Potential vehicle conflict within clear zone	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		
			<b>Drainage</b>												
Operational	DR	Drainage	Grated Pits	Relevant Authority	Trip/fall hazard with large spaced grate	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	Relevant Authority	Potential for pit failure	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	Relevant Authority	Potential for falling from height	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	Relevant Authority	Children playing in large pipes / watercourses and access for maintenance	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	Relevant Authority	Lack of safe access for maintenance	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	Relevant Authority	Lack of safe entry for maintenance	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	Relevant Authority	Lack of safe access for maintenance	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	Authority		
			<b>Sewer</b>												
Maintenance	SE	Sewer	Deep Manholes	Relevant Authority	Lack of safe entry for maintenance	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	Relevant Authority	Lack of safe access for maintenance	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		
			<b>Electricity</b>												
Operational	ES	Electrical Services	Electrical Design	Relevant Authority	Location of assets within clear zones e.g.. pits/ substations	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		
			<b>Telstra</b>												
Operational	TE	Telstra	Telstra Design	Relevant Authority	Location of assets within clear zones e.g.. pits	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		
			<b>Water</b>												
Operational	WA	Water	Water Design	Relevant Authority	Location of assets within clear zones e.g.. pits/ substations	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		
			<b>Gas</b>												
Operational	GA	Gas	Gas Design	Relevant Authority	Location of assets within clear zones e.g.. pits/ substations	Increased potential for accidents	Water pits designed in accordance with authority standards	Pits designed below ground. Where above ground adequate offset from vehicle clear zones has been provided or barrier protection provided	N	1	1	1	Authority		

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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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	J.Chen
		DESIGNER	S.Hossain
		CHECKED	E.Wang
		AUTHORISED	B.Sanderson
		REFERENCE No. 1	
		REFERENCE No. 2	2360E-03

SCALE AS SHOWN AT A1	
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Marigold - Stage 3  
 Wyndham City Council  
 Road and Drainage  
 Safety In Design

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-03-85	SHEET No. 23 of 23	REVISION 0
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