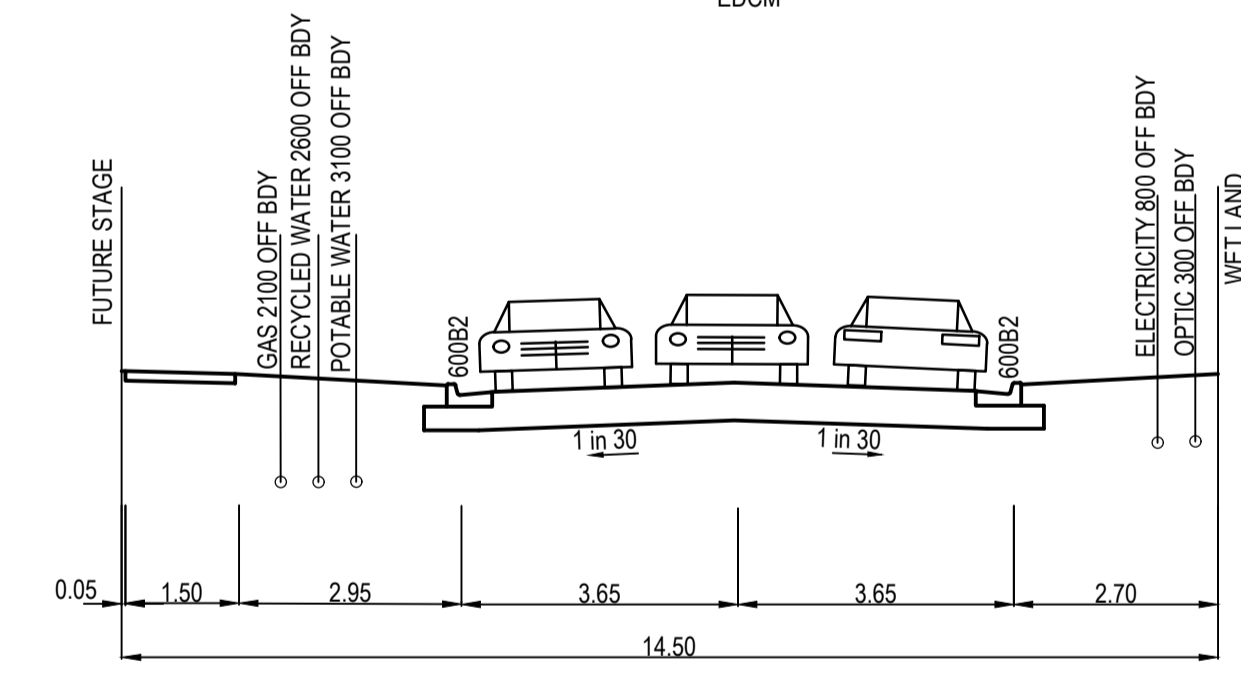
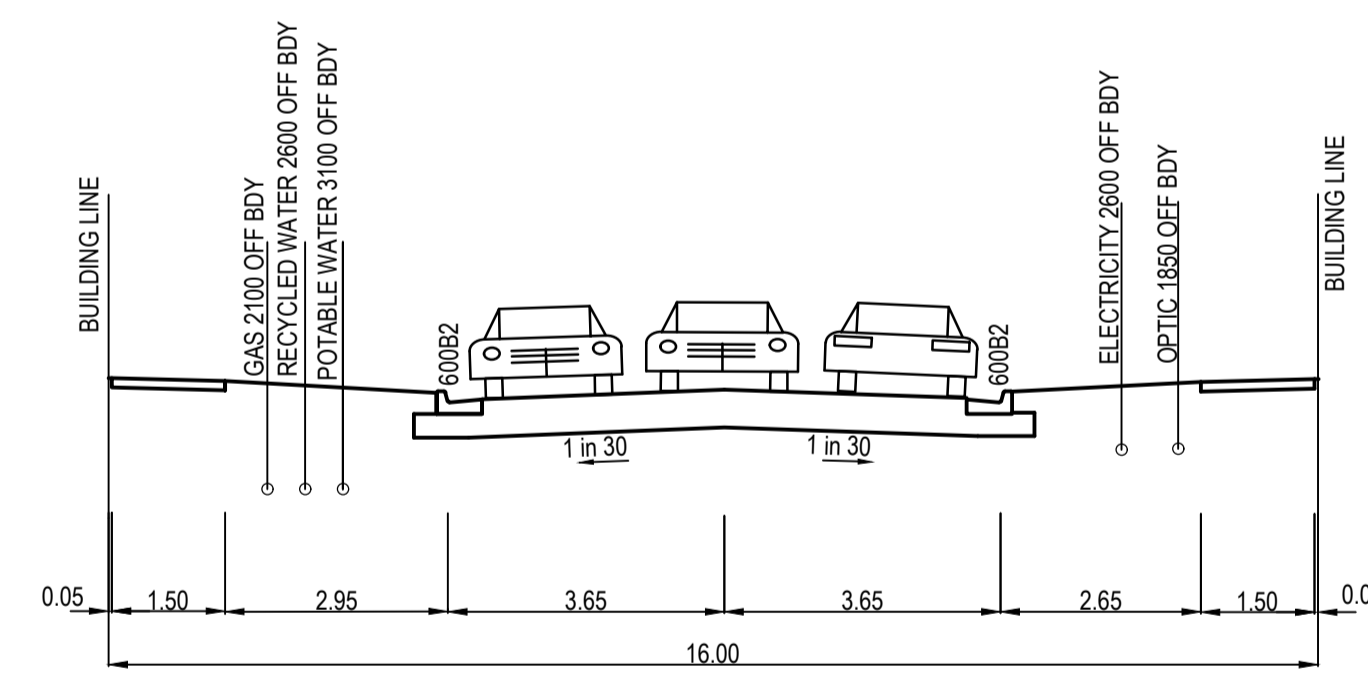
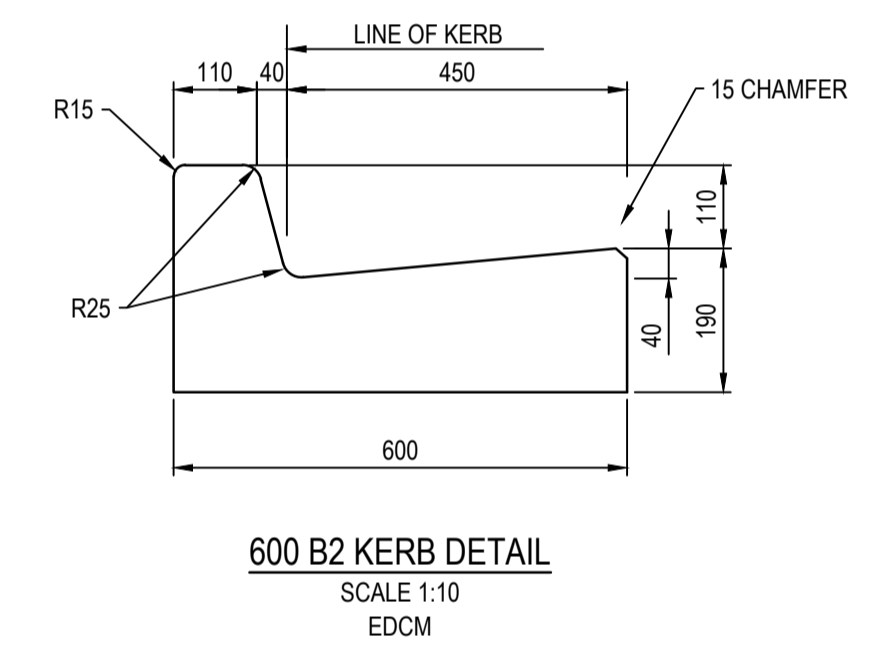
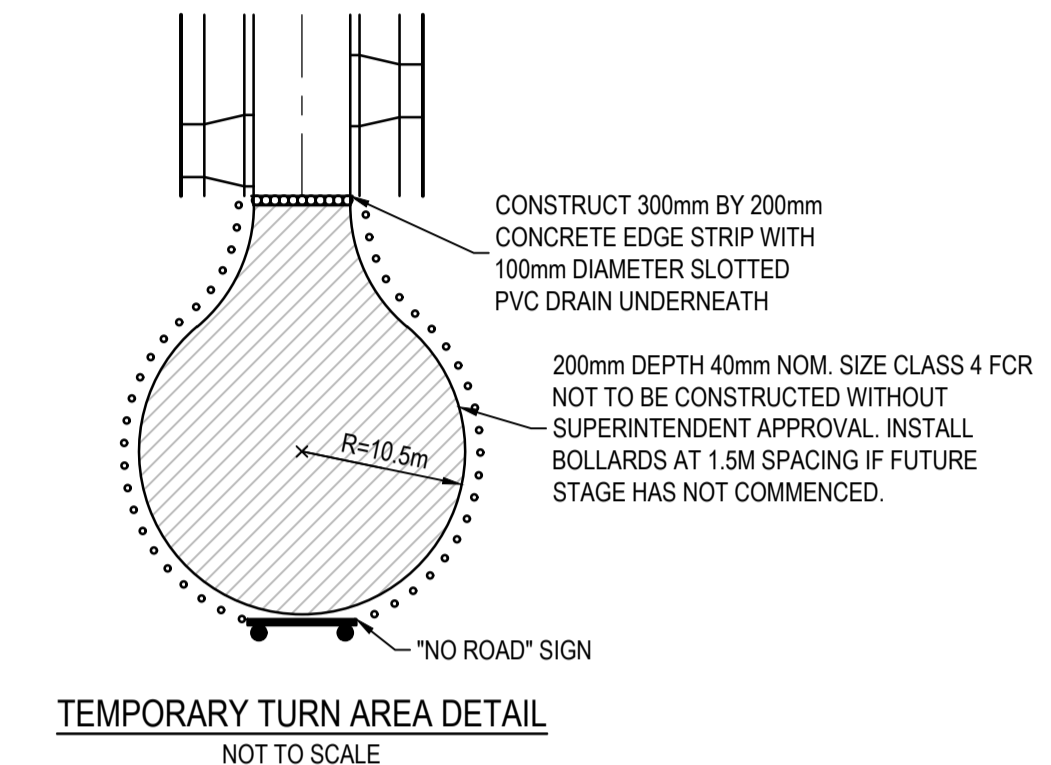
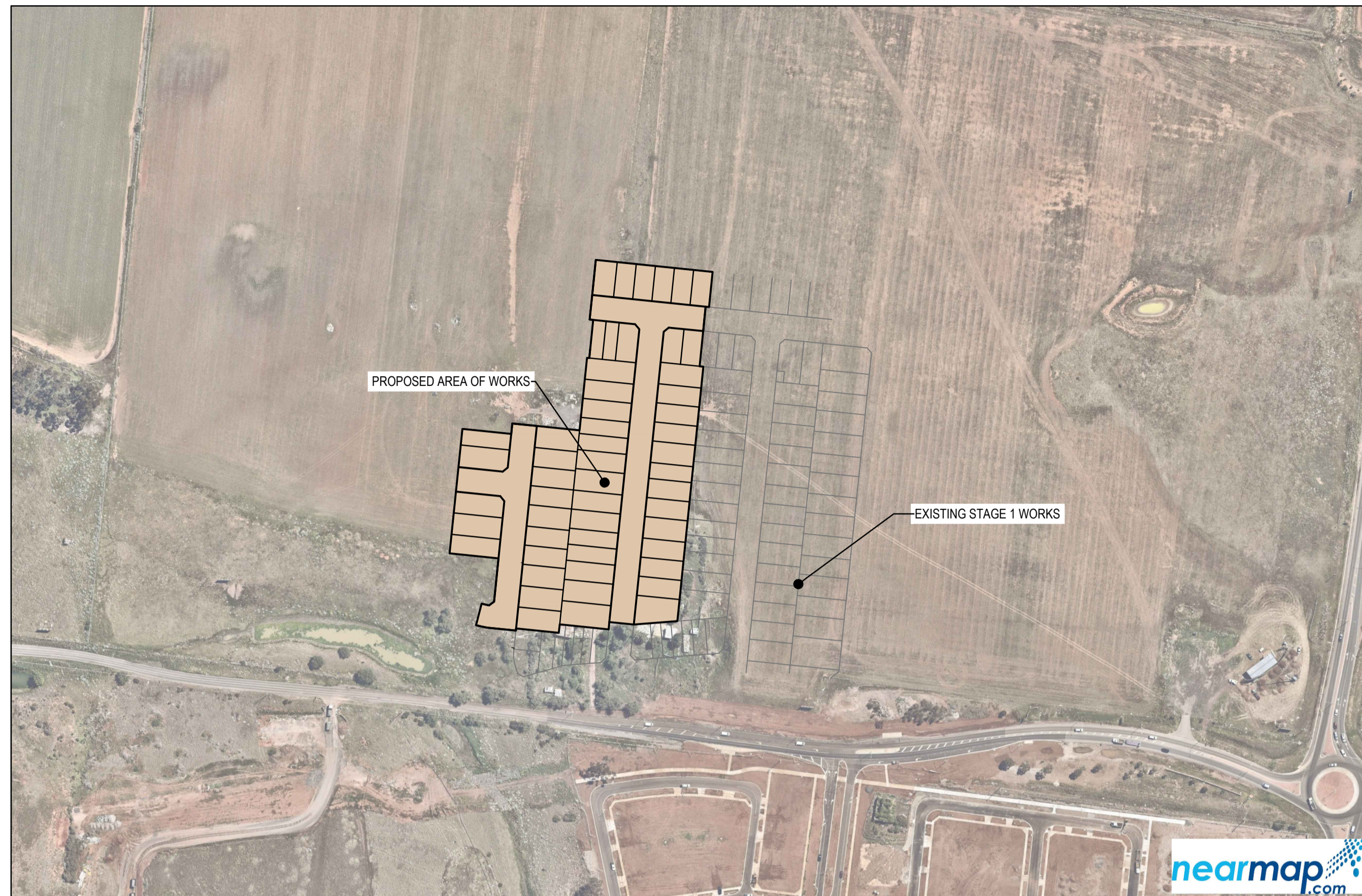


Marigold Stage 2



GENERAL NOTES (WYNDHAM CITY COUNCIL)

- THE WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDMC 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. 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 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 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 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 OFFSITE.
- INSTALL BLUE RAISED REFLECTIVE PAVEMENT MARKER (BRRPM) 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 468 m
- TOTAL LENGTH OF DRAINS CONSTRUCTED IS 794 m

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 LOADS DURING CONSTRUCTION UNLESS THE PIPE STRENGTH CHARACTERISTICS HAVE BEEN COMPUTED AND APPROVED BY THE CONTRACTORS 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.

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- 2360E-02-04 Intersection Detail Plan - 2
- 2360E-02-05 Longitudinal Sections - 1
- 2360E-02-06 Longitudinal Sections - 2
- 2360E-02-07 Cross Sections: Cherish Drive
- 2360E-02-08 Cross Sections: Rejoice Street & Spree Street
- 2360E-02-09 Cross Sections: Feast Way Ch 11.80 - Ch 131.85
- 2360E-02-10 Cross Sections: Feast Way Ch 144.35 - Ch 202.56 & Keeping Terrace
- 2360E-02-11 Drainage Longitudinal Sections - 1
- 2360E-02-12 Drainage Longitudinal Sections - 2
- 2360E-02-13 Drainage Longitudinal Sections - 3
- 2360E-02-14 Pit Schedule
- 2360E-02-15 Signage & Linemarking Plan
- 2360E-02-16 Pavement Details
- 2360E-02-85 Safety In Design

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

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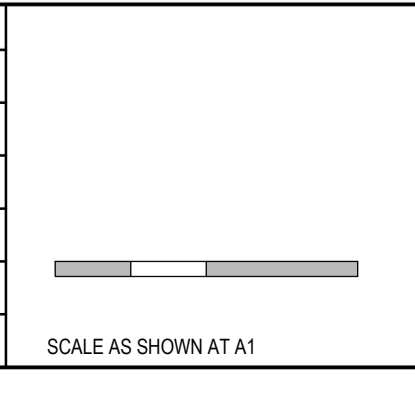
WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety In Design Risk Register SID-P4-EG-2360E-02-85
ASSESS THE RISK - 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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AS CONSTRUCTED PLANS
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AS CONSTRUCTED

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

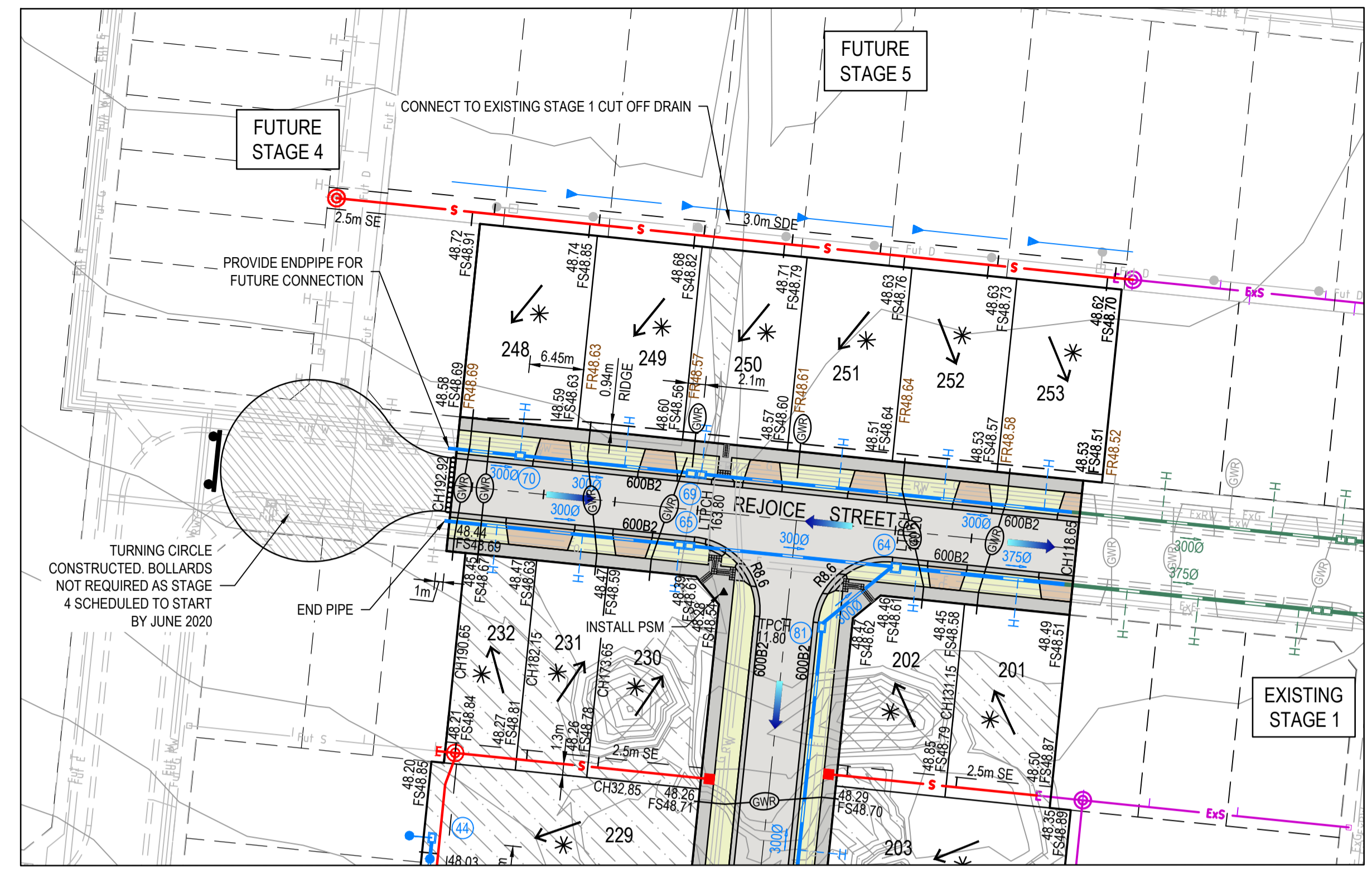


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GROWLAND

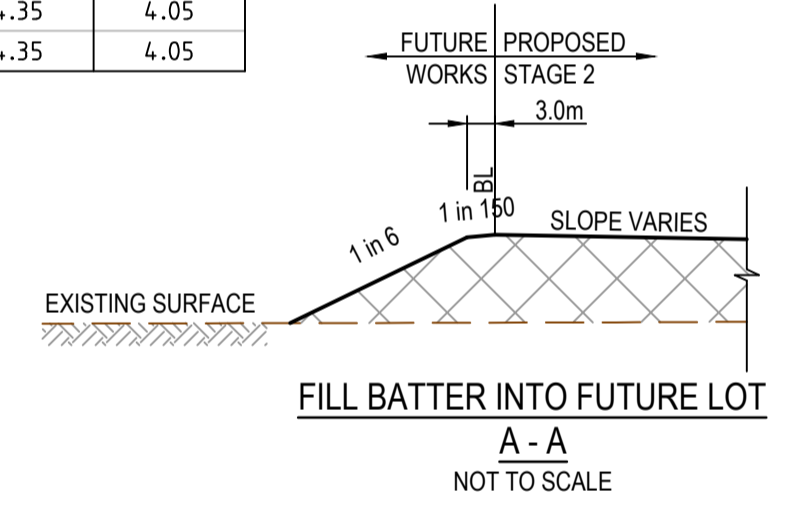
Marigold - Stage 2 Wyndham City Council Road and Drainage Cover Plan		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-01	SHEET No. 01 of 17	REVISION 1
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FOR CONTINUATION REFER RIGHT



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	
REJOICE STREET	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05	
FEAST WAY	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05	
KEEPING TERRACE	14.5	6.40	7.30	7.60	600B2	600B2	4.35	2.55	
CHERISH DRIVE	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05	
SPREE STREET	16.0	6.40	7.30	7.60	600B2	600B2	4.35	4.05	

ROAD NAME	SERVICES OFFSET TABLE				
	GAS	WATER	RECYCLED WATER	ELECTRICITY	OPTIC FIBRE
REJOICE STREET	2.10 N	3.10 N	2.60 N	2.60 S	1.85 S
FEAST WAY	2.10 W	3.10 W	2.60 W	2.60 E	1.85 E
KEEPING TERRACE	2.10 N	3.10 N	2.60 N	0.80 S	0.30 S
CHERISH DRIVE	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
SPREE STREET	2.10 N	3.10 N	2.60 N	2.60 S	1.85 S



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 LINE LEVEL
- FR157.40 FINISHED RIDGE LINE LEVEL
- CH270.00 CHAINAGE
- TW159.60 TOP OF RETAINING WALL LEVEL
- BW159.00 BOTTOM OF RETAINING WALL LEVEL
- EXISTING RETAINING WALL
- RETAINING WALL
- FUTURE RETAINING WALL
- STRUCTURAL FILL > 200mm DEEP
- EXISTING STRUCTURAL FILL > 200mm DEEP

- CUT > 200mm DEEP
- DIRECTION OF FALL
- OVERLAND FLOW
- GRADED IN DIRECTION OF FALL TO LEVEL INDICATED
- EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
- EXISTING TREE TO BE RETAINED
- EXISTING TREE TO BE REMOVED
- PERMANENT SURVEY MARK
- TEMPORARY BENCH MARK
- PROPOSED DRIVEWAY & FOOTPATH
- PROPOSED INDUSTRIAL DRIVEWAY
- PROPOSED SHARED FOOTPATH
- PROPOSED ROAD PAVING
- EXISTING ROAD PAVING

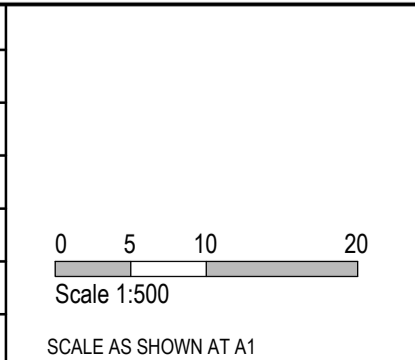
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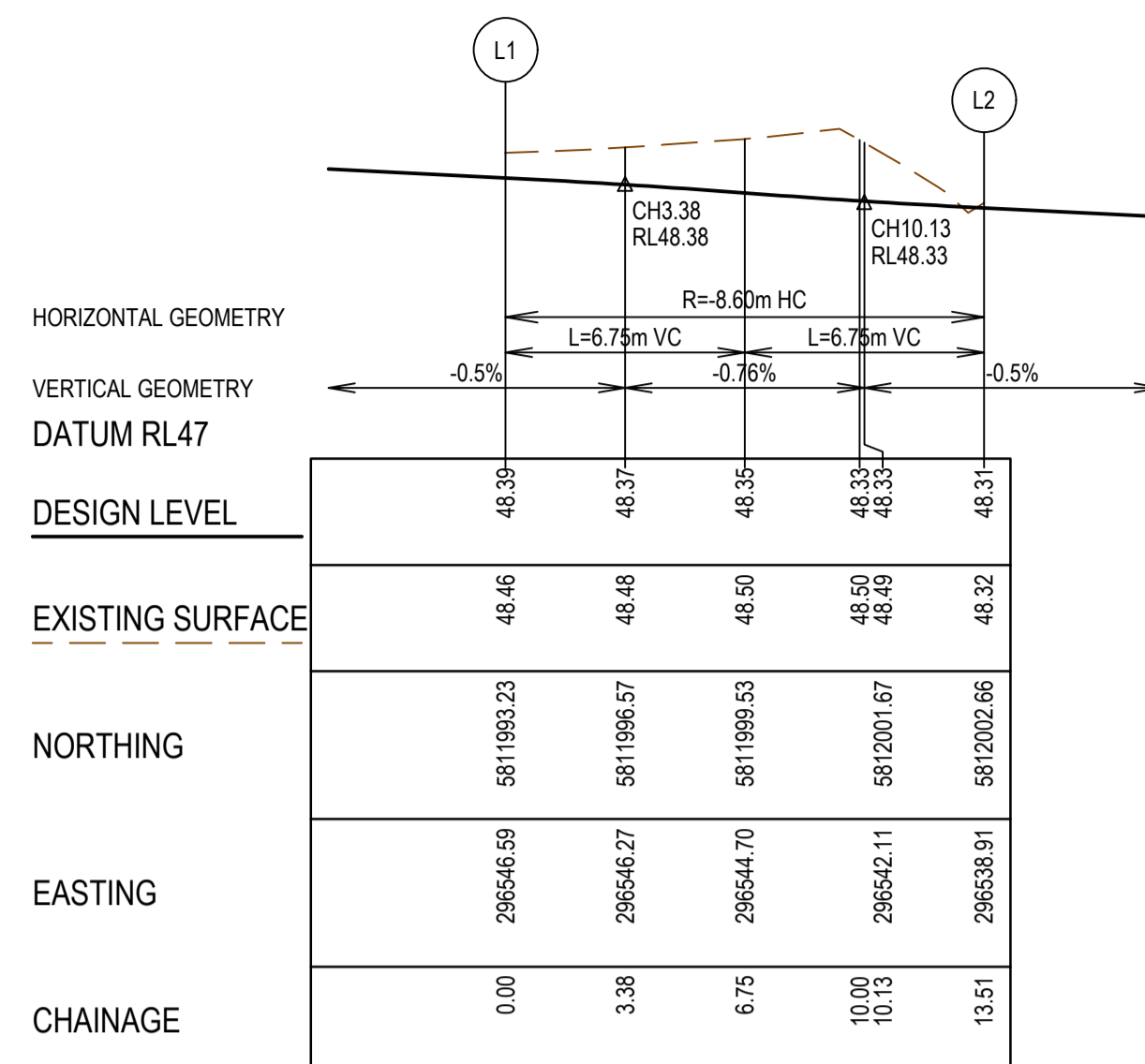
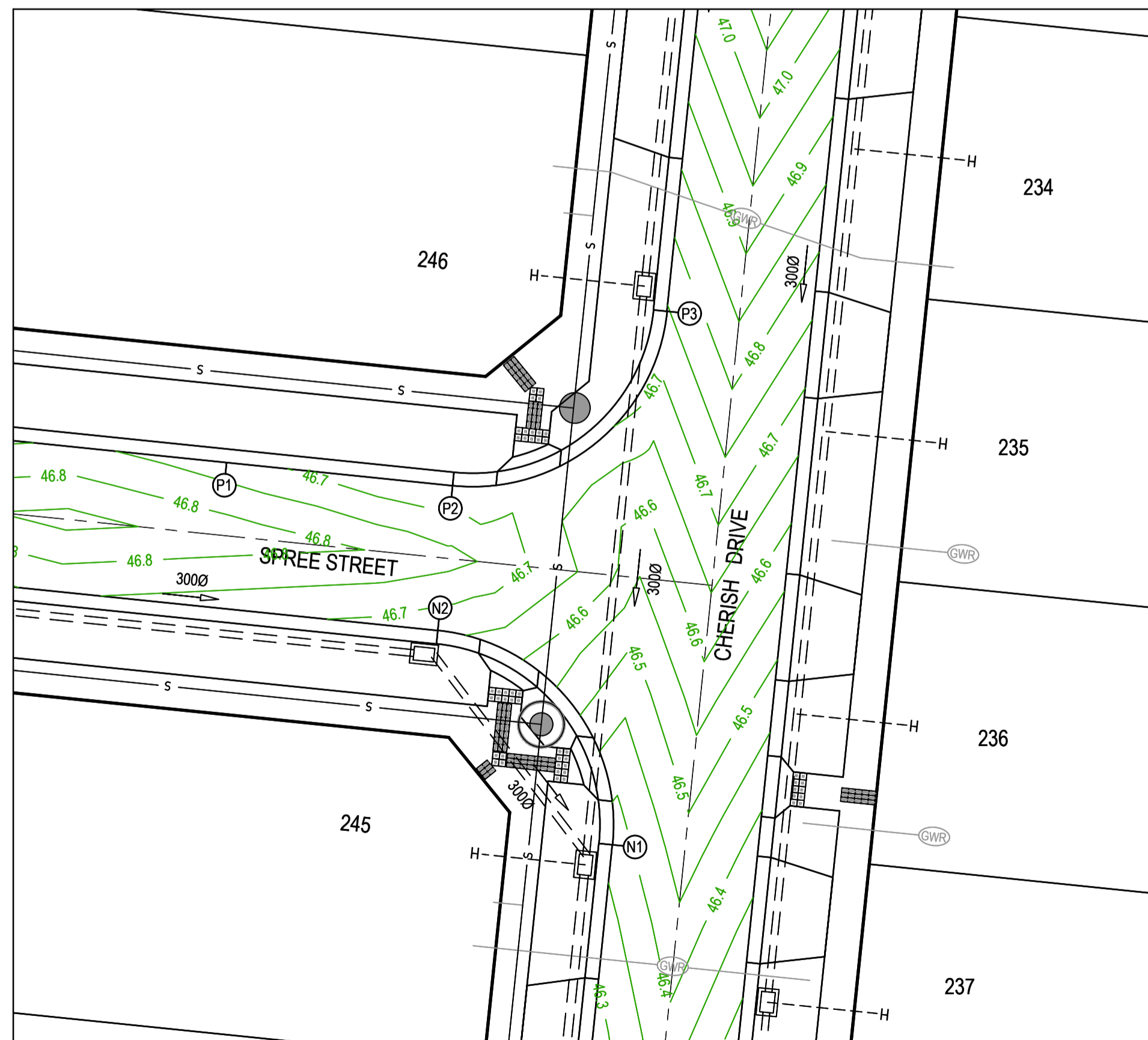
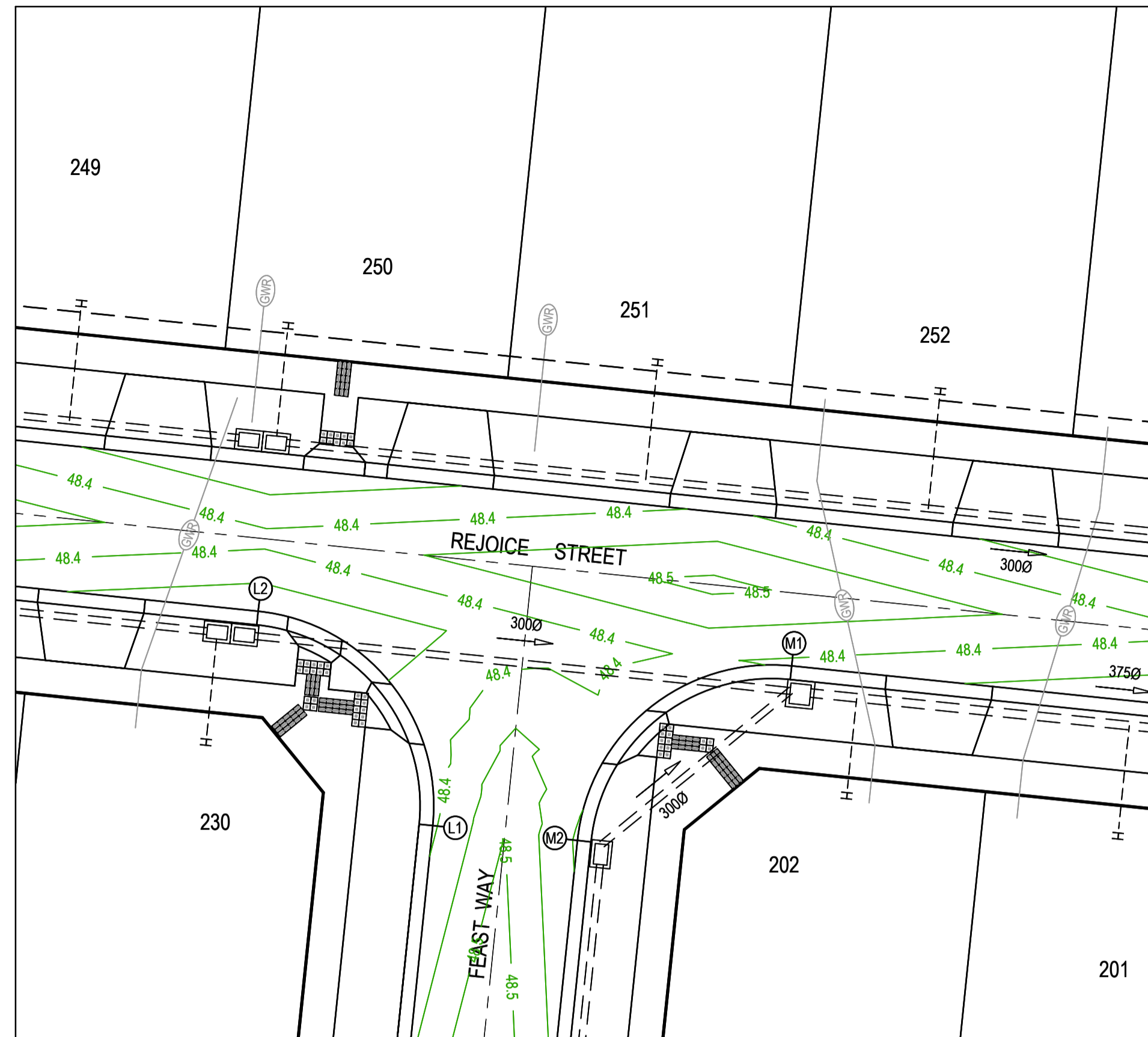


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GROWLAND

Marigold - Stage 2
Wyndham City Council
Road and Drainage
Layout Plan

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-02	SHEET No. 02 of 17	REVISION 2
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Alignment L

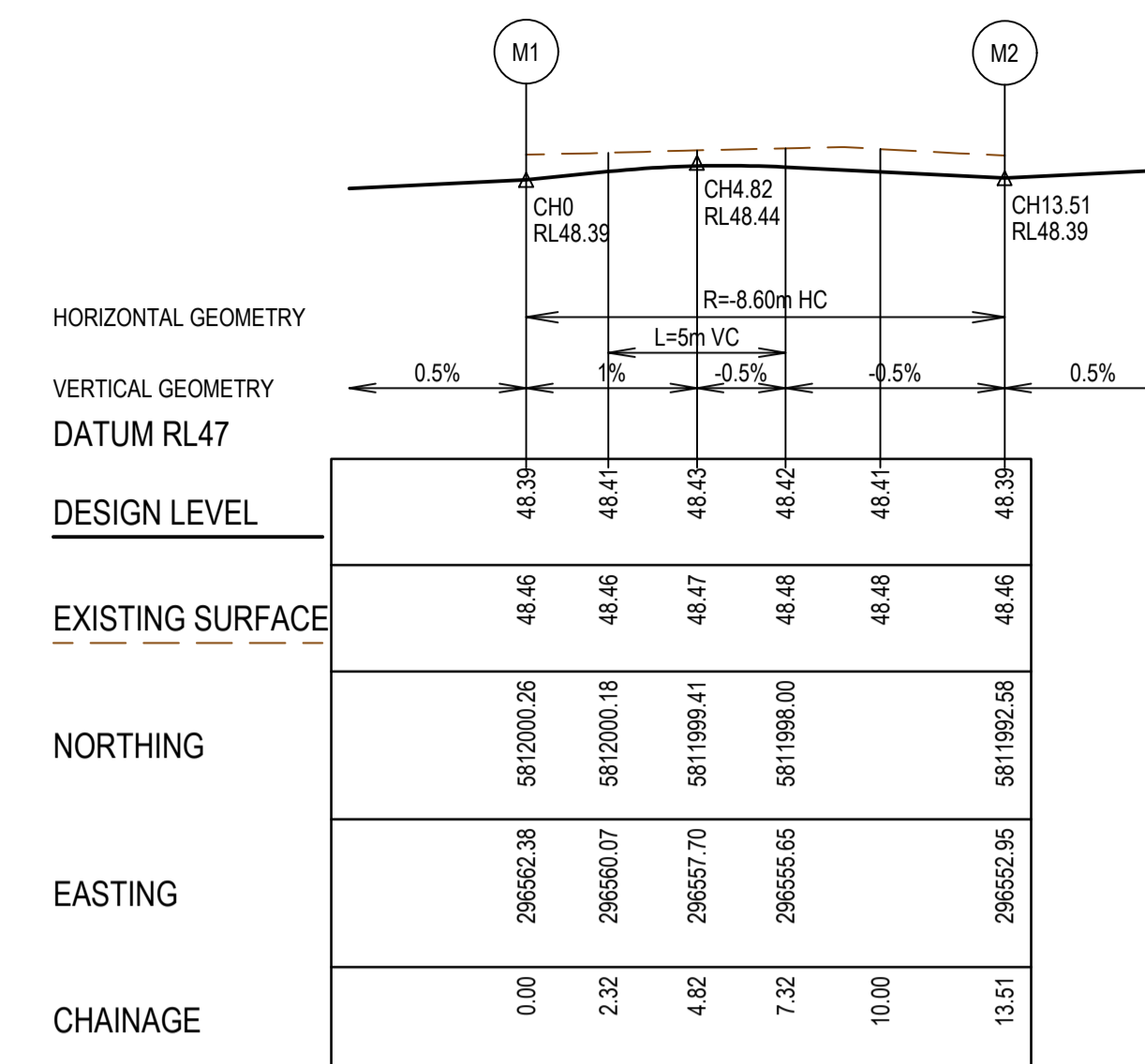
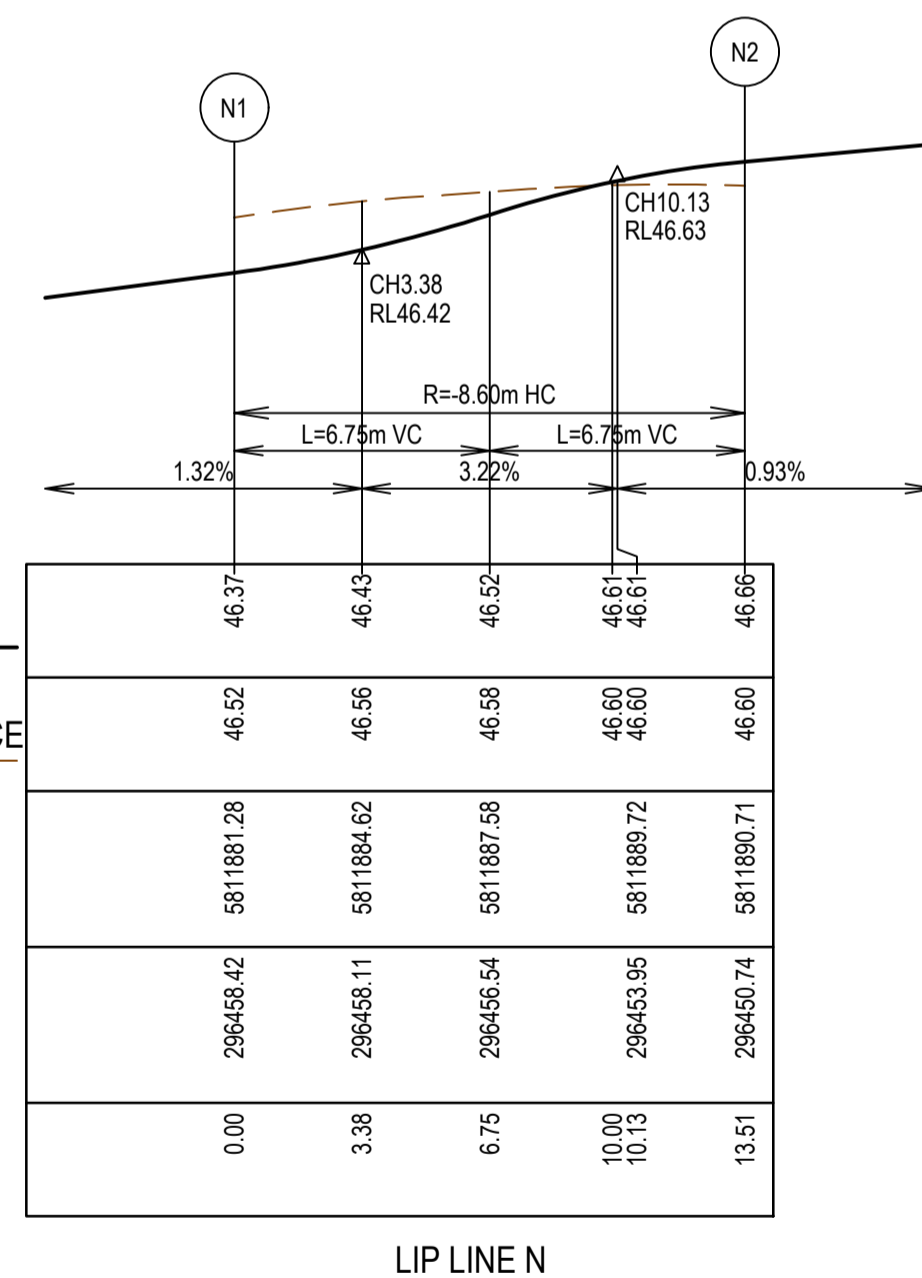
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L2	296538.907	5812002.660	48.308

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
L1 - L2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	48.351

Alignment M

Point no	Easting	Northing	RL
M1	296562.384	5812000.255	48.388
M2	296552.953	5811992.576	48.393

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
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Alignment N

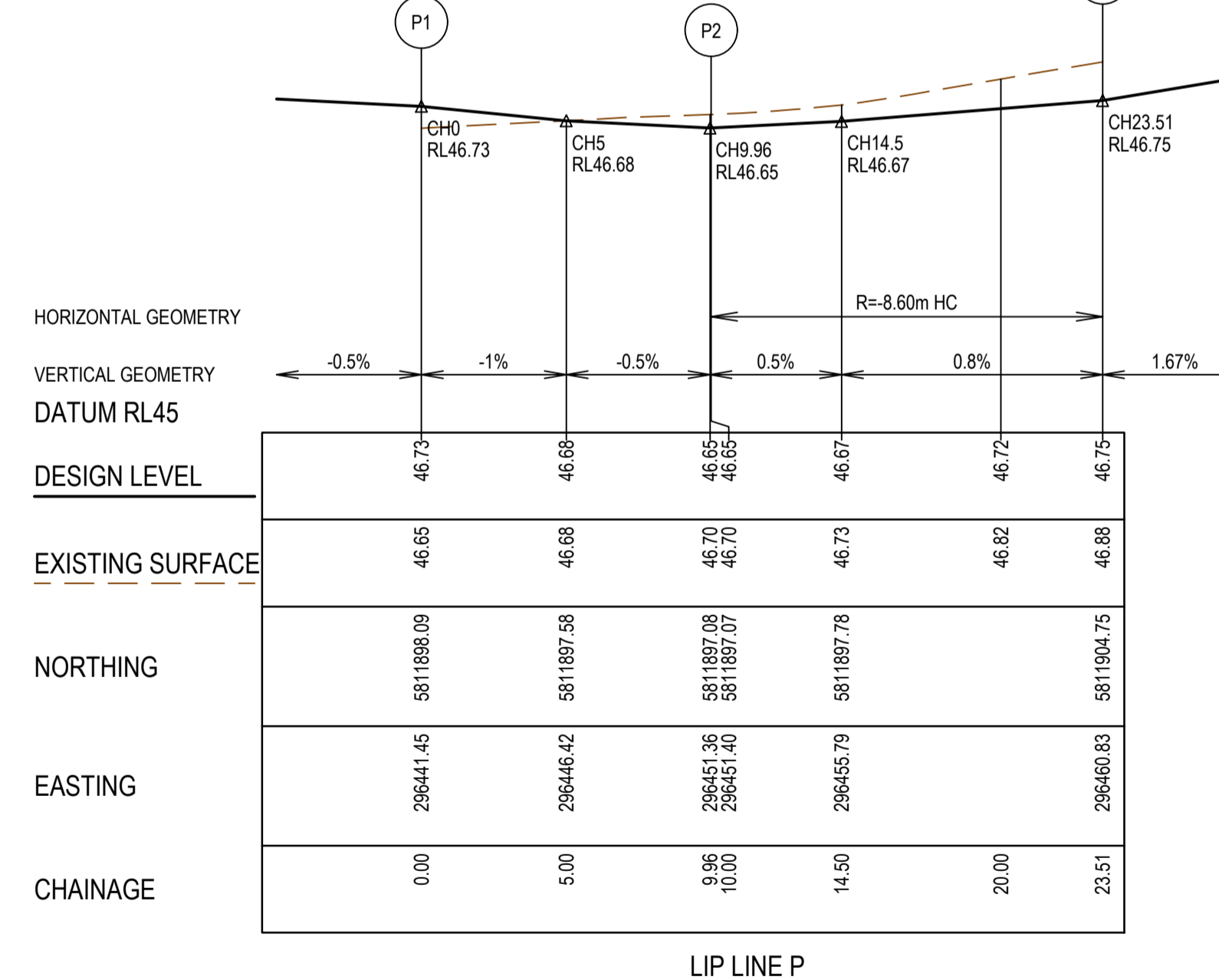
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N1	296458.422	5811881.277	46.371
N2	296450.743	5811890.708	46.664

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
N1 - N2	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.524

Alignment P

Point no	Easting	Northing	RL
P1	296441.447	5811898.093	46.725
P2	296451.395	5811897.075	46.651
P3	296460.827	5811904.754	46.745

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
P2 - P3	90.000	8.600	13.509	2.519	1.864	3.291	2.790	3.377	46.691



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

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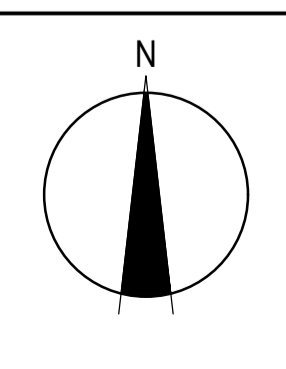
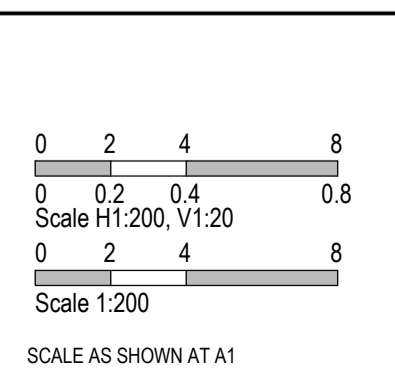
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Quality Management ISO 9001
 OHS Management AS/NZS 1801
 Environmental Management ISO 14001

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DESIGNER	J.Chen
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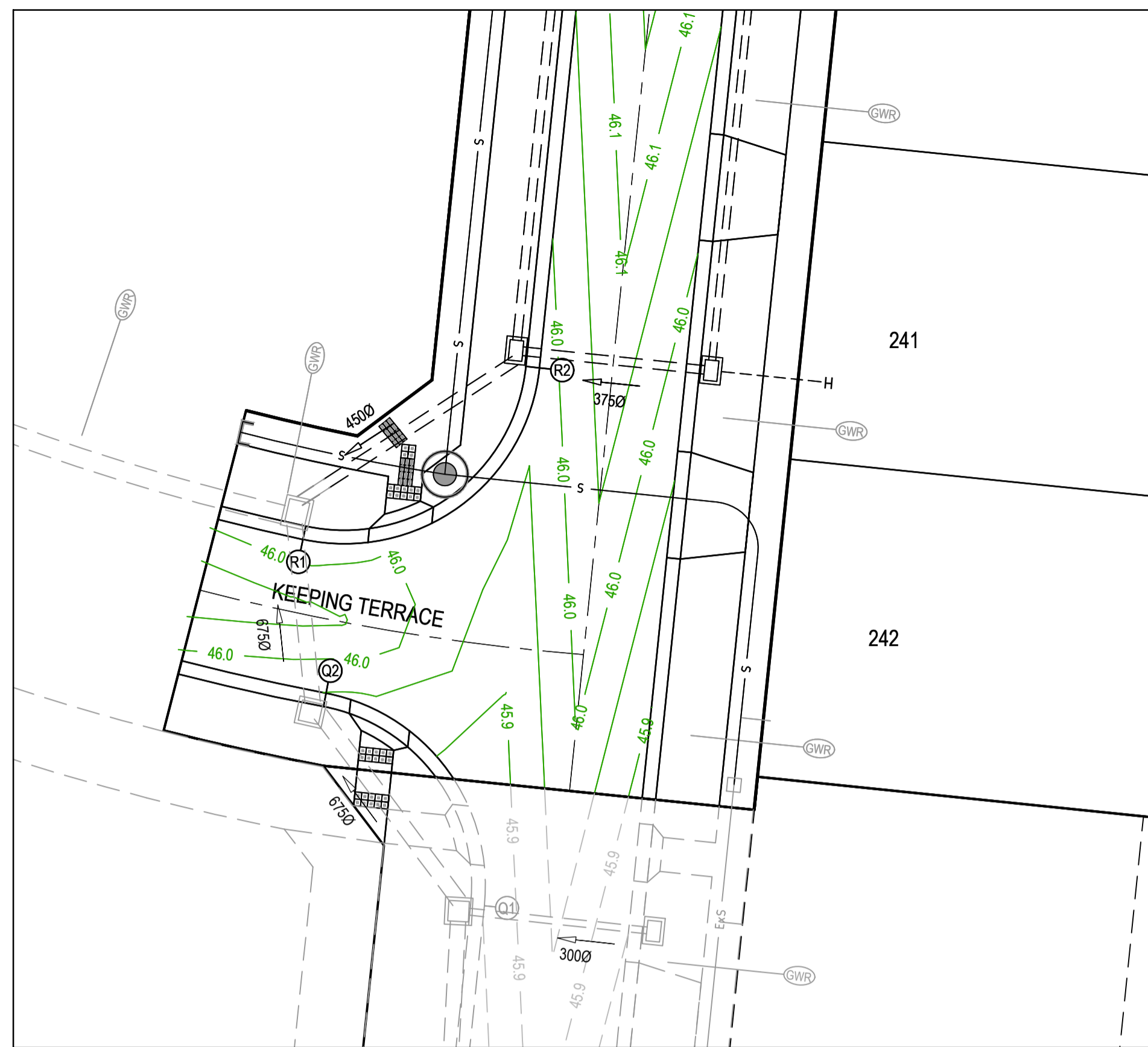
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 Ph 03 9514 1500

GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Intersection Detail Plan - 1

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-03	SHEET No. 03 of 17	REVISION 1
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Alignment Q

Point no	Easting	Northing	RL
Q1	296449.503	5811794.186	45.853
Q2	296442.563	5811803.509	45.949

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
Q1 - Q2	85.021	8.600	12.761	2.260	1.675	3.118	2.694	3.190	45.894

Alignment R

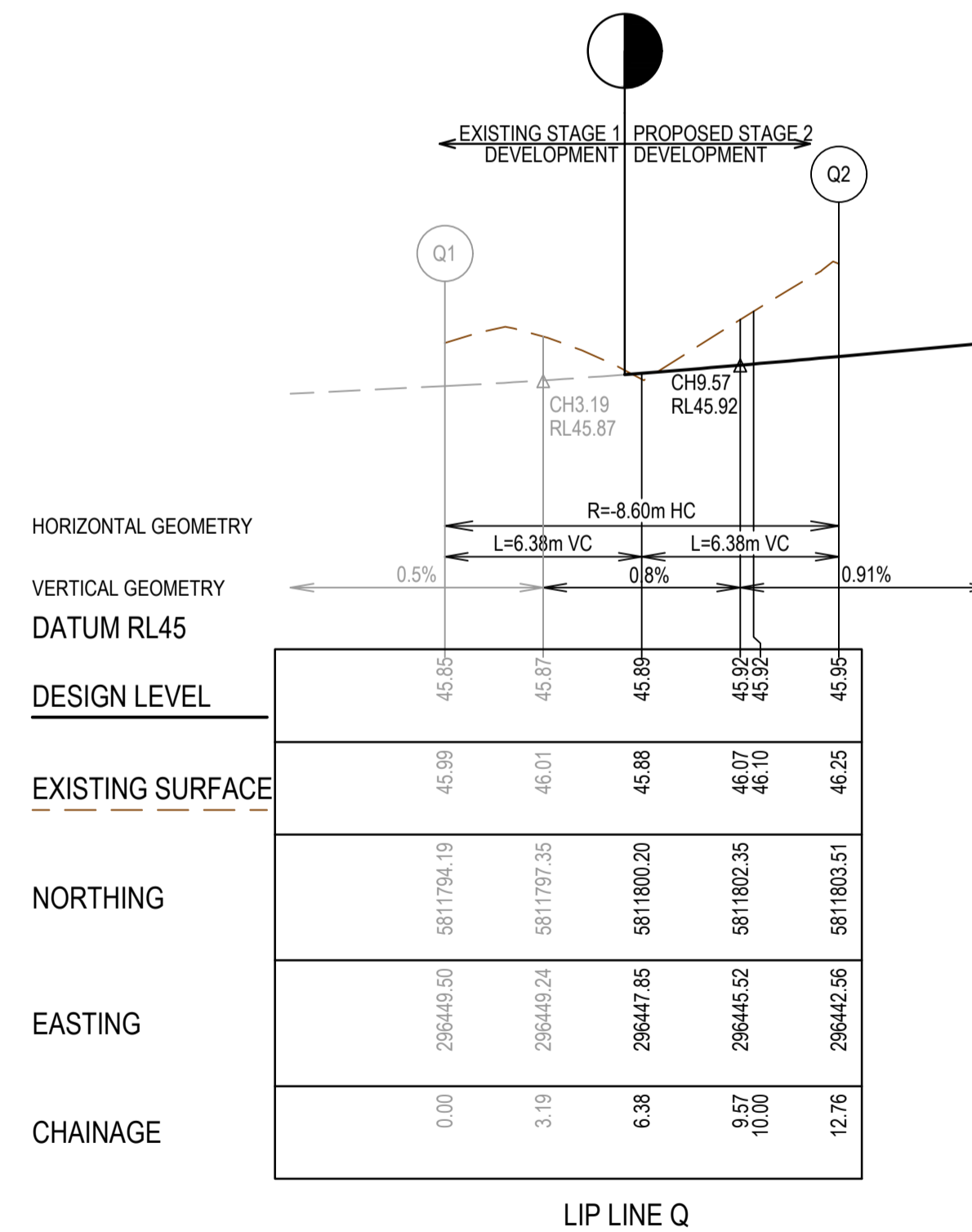
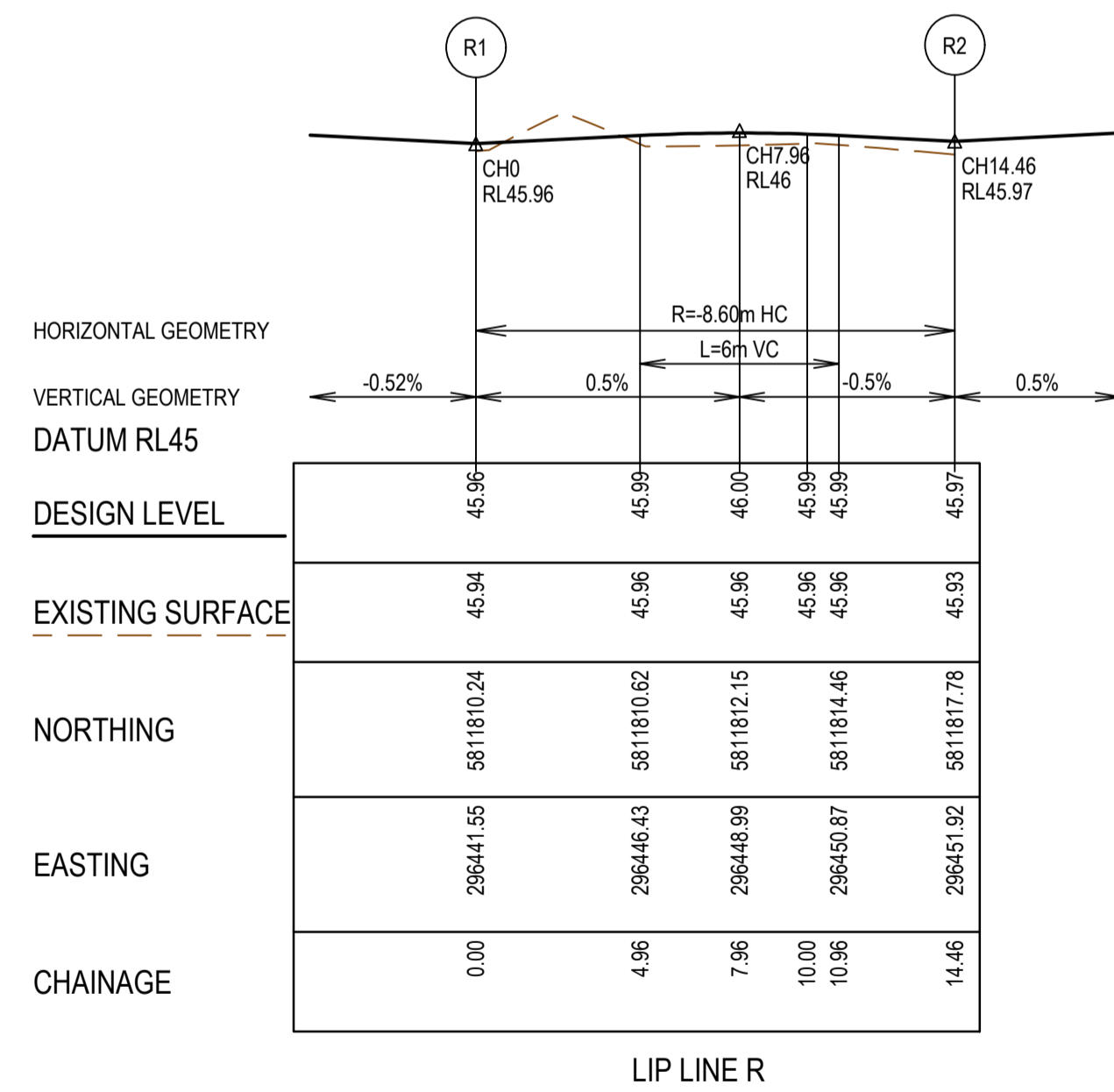
Point no	Easting	Northing	RL
R1	296441.552	5811810.245	45.964
R2	296451.919	5811817.776	45.972

Curve no	I	Radius	Arc	A	B	X	Y	I	Mid point RL
R1 - R2	96.314	8.600	14.457	2.863	2.115	3.509	2.898	3.614	45.996

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

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

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



AS CONSTRUCTED PLANS

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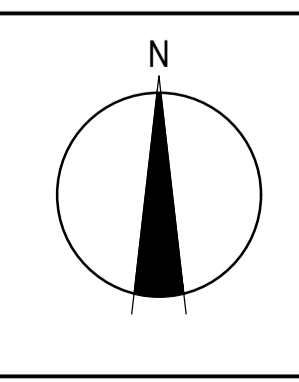
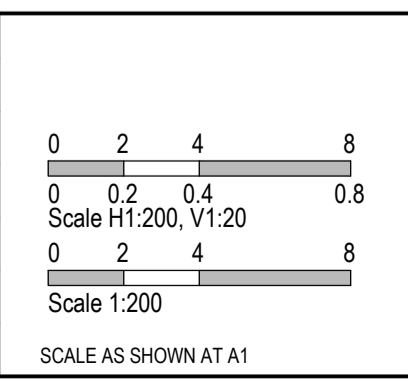
AS CONSTRUCTED

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

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

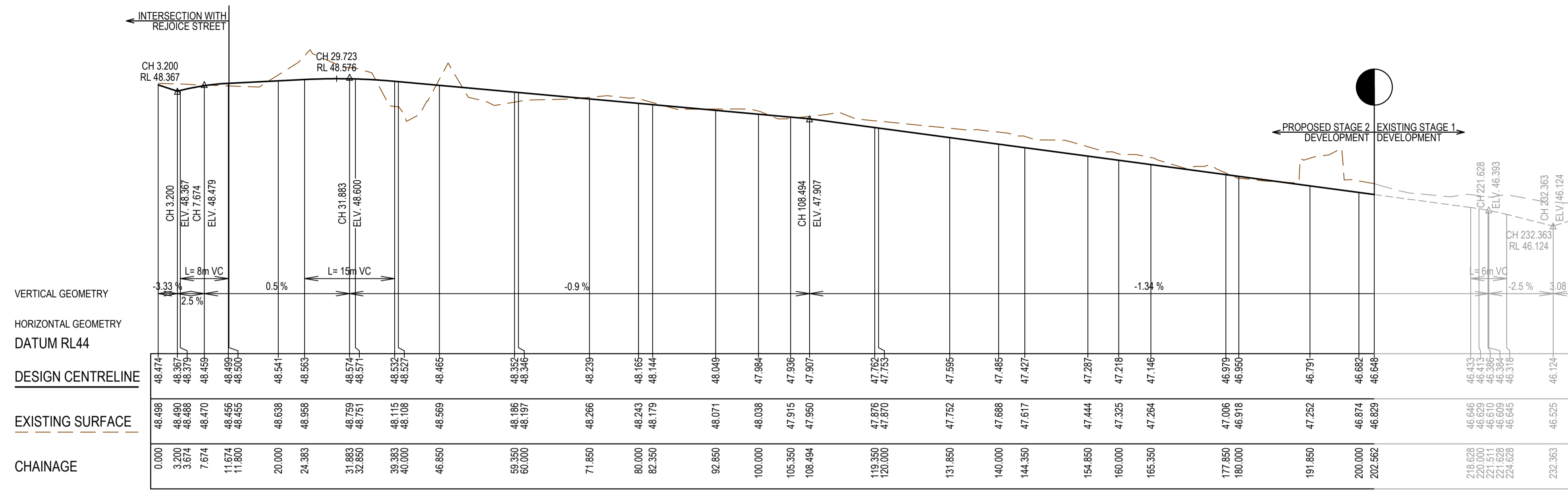


SMEC
Member of the Surbana Jurong Group
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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
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GROWLAND

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

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-04	SHEET No. 04 of 17	REVISION 1
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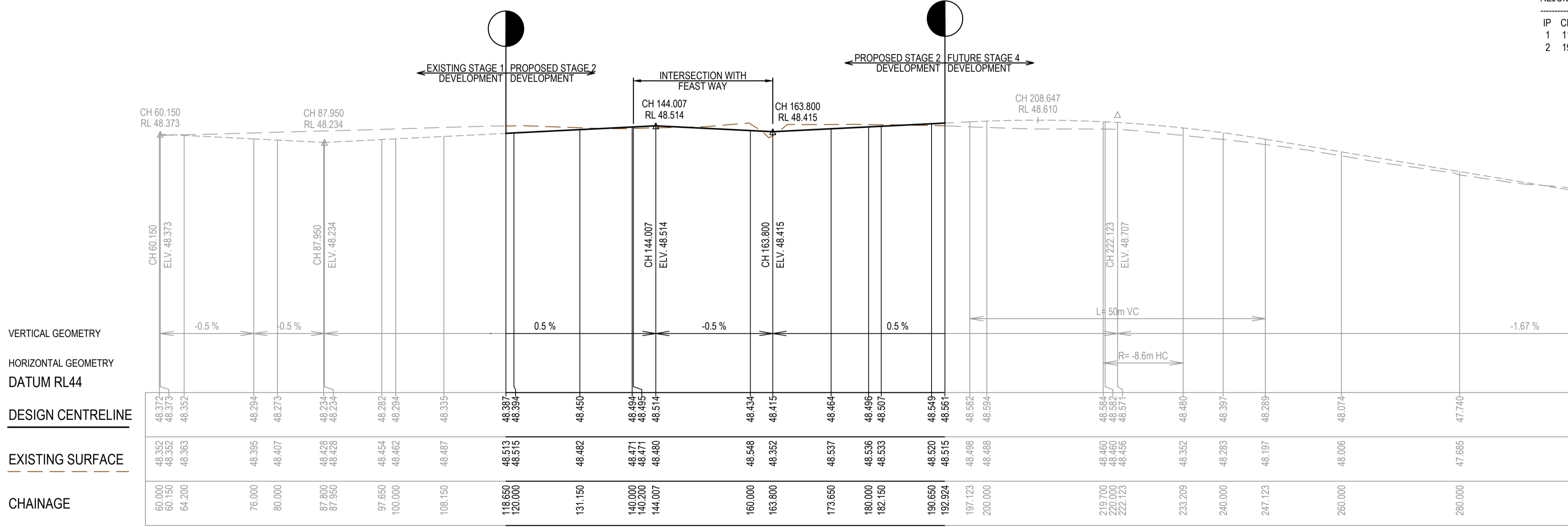
FEAST WAY LONGITUDINAL SECTION

FEAST WAY DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296550.972	581200.641	48.474	IP	185°50'50.00"		
2	202.560	296530.336	581180.135	46.648	IP	185°50'50.00"		

REJOICE STREET DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	118.650	296584.148	581200.124	48.387	IP	275°50'49.98"		
2	192.924	296510.261	581200.810	48.559	IP	275°50'49.98"		



REJOICE STREET LONGITUDINAL SECTION

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

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

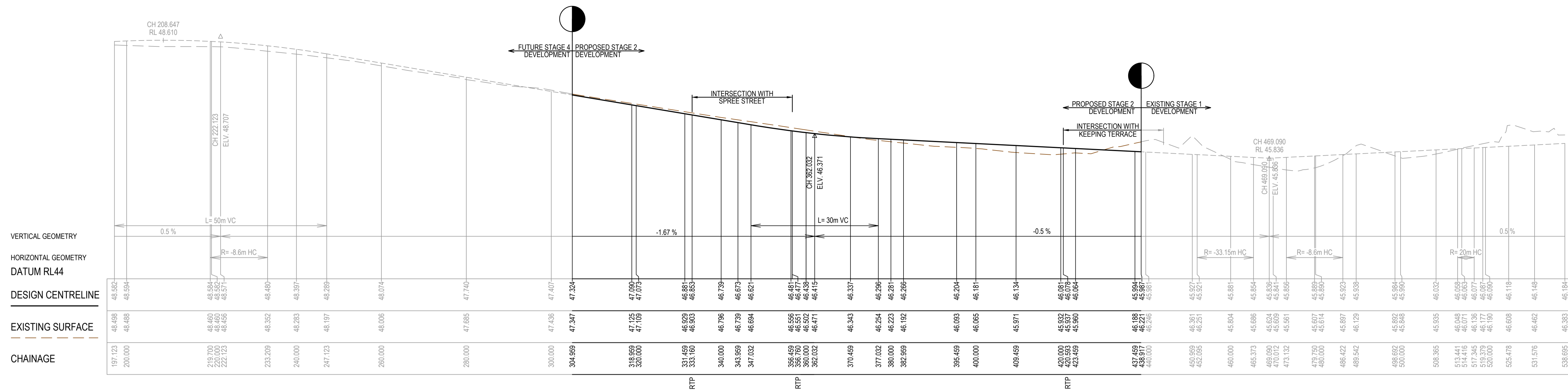
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 SCALE AS SHOWN AT 1

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 ABN 47 065 475 149
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GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Longitudinal Sections - 1

MELWAYS REF 359 F9	PROJECT / DRAWING No 2360E-02-05	SHEET No 05 of 17	REVISION 1
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CHERISH DRIVE LONGITUDINAL SECTION

CHERISH DRIVE DESIGN LINE

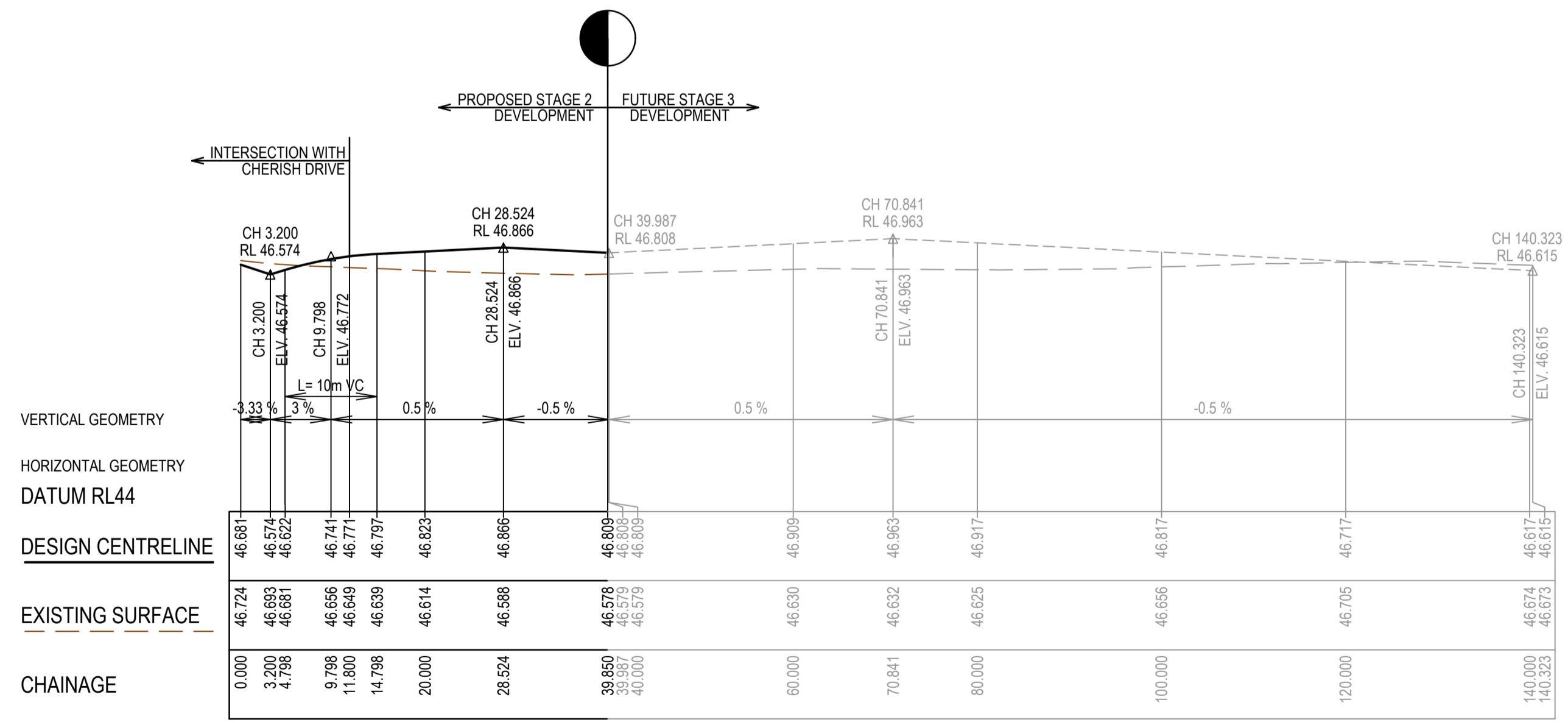
IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	304.96	296466.884	5811932.491	47.608	IP	185°50'50.00"		
2	438.92	296453.237	5811799.230	48.268	IP	185°50'50.00"		

KEEPING TERRACE DESIGN LINE

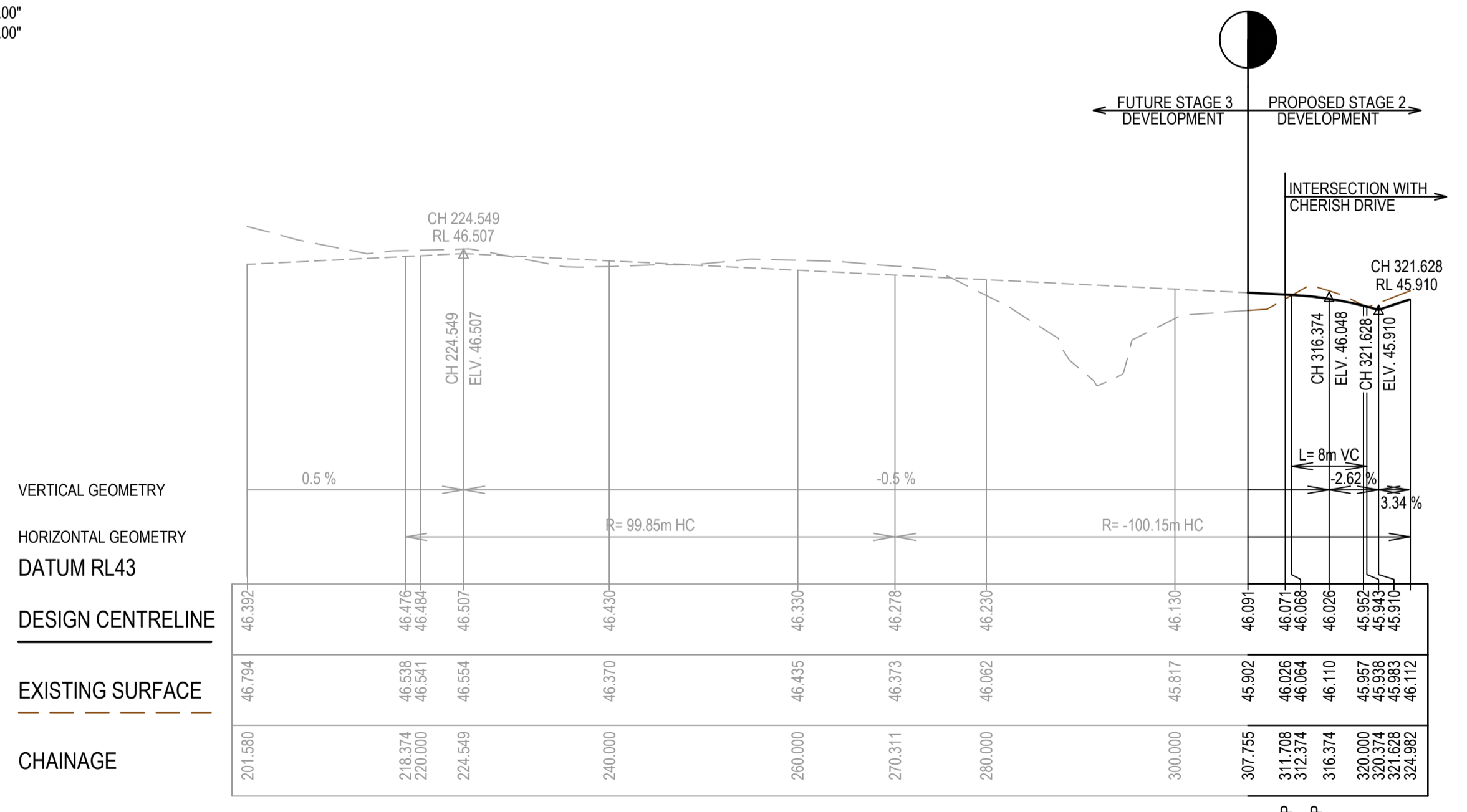
IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	307.755	296437.031	5811808.026	46.091	IP	104°25'23.52"		
2	316.368	296445.394	5811805.875	46.027	IP	17.227°-100.150		
3	324.982	296454.001	5811805.187		IP	94°34'04.00"		

SPREE STREET DESIGN LINE

IP	CHAINAGE	X COORD	Y COORD	Z COORD	TYPE	BEARING	LENGTH	RADIUS
1	0.000	296462.808	5811892.689	46.681	IP	275°50'50.00"		
2	39.850	296423.165	5811896.749	46.809	IP	275°50'50.00"		



SPREE STREET LONGITUDINAL SECTION



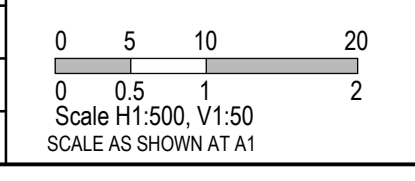
KEEPING TERRACE LONGITUDINAL SECTION

AS CONSTRUCTED PLANS

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AS CONSTRUCTED

TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



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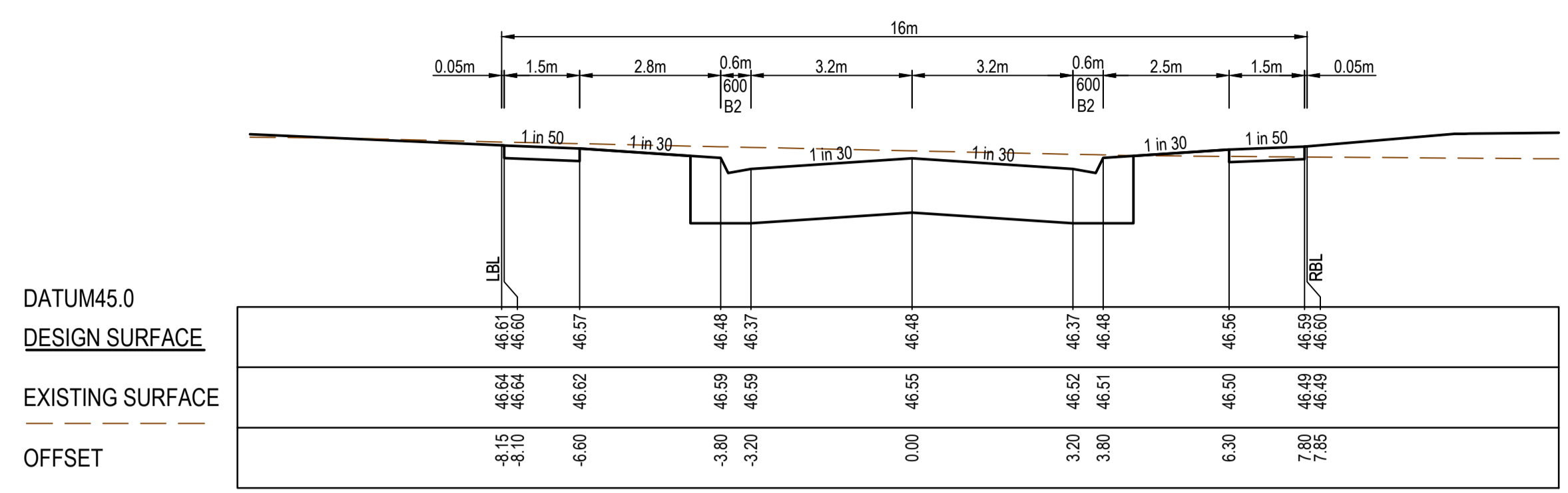
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

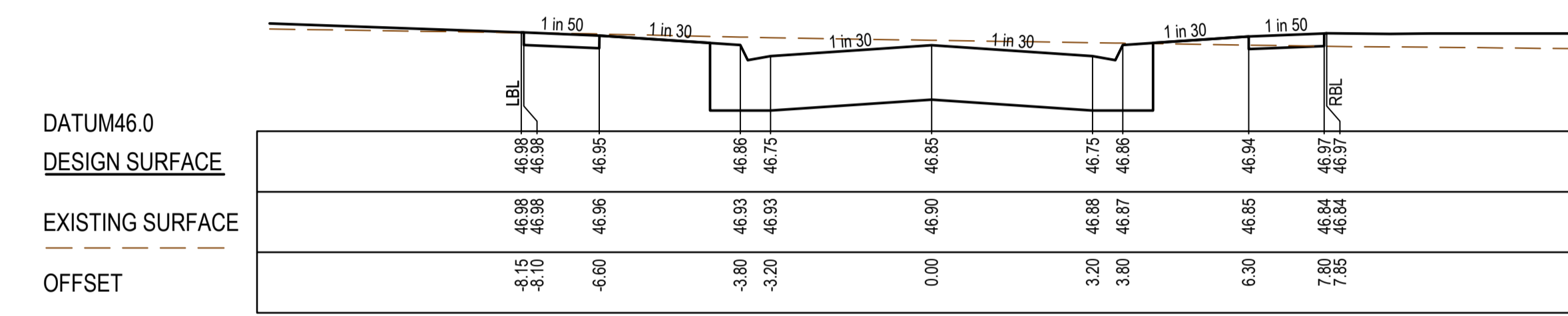
Marigold - Stage 2
Wyndham City Council
Road and Drainage
Longitudinal Sections - 2

MELWAYS REF	PROJECT / DRAWING No	SHEET No	REVISION
359 F9	2360E-02-06	06 of 17	1

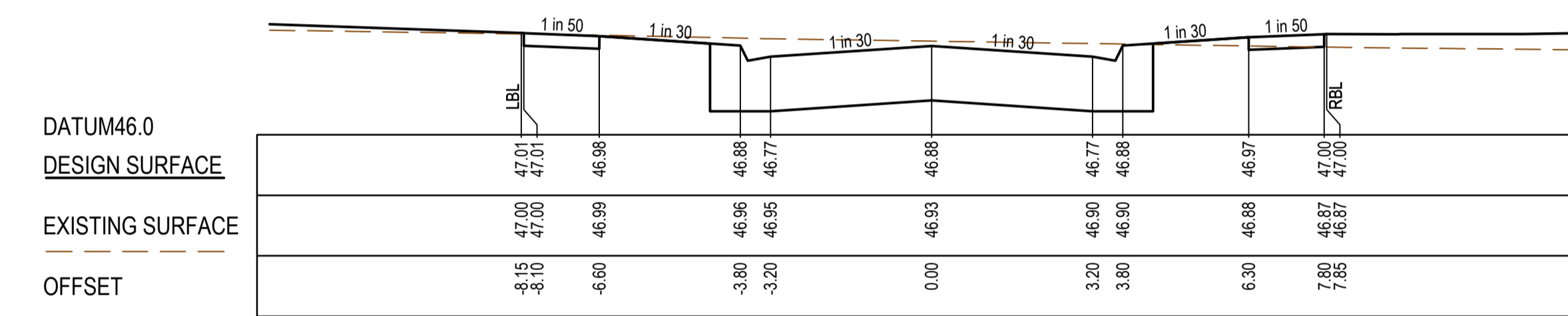
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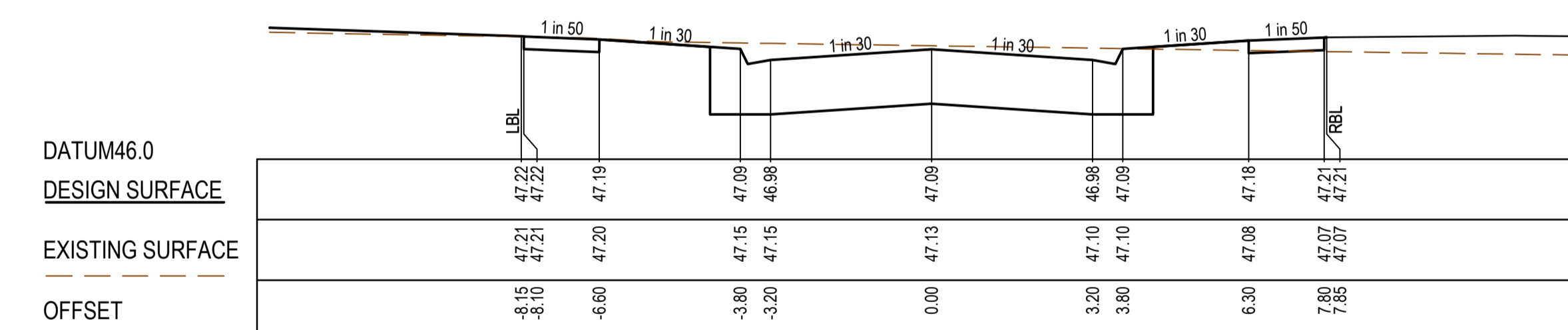
RTPCH 356.76



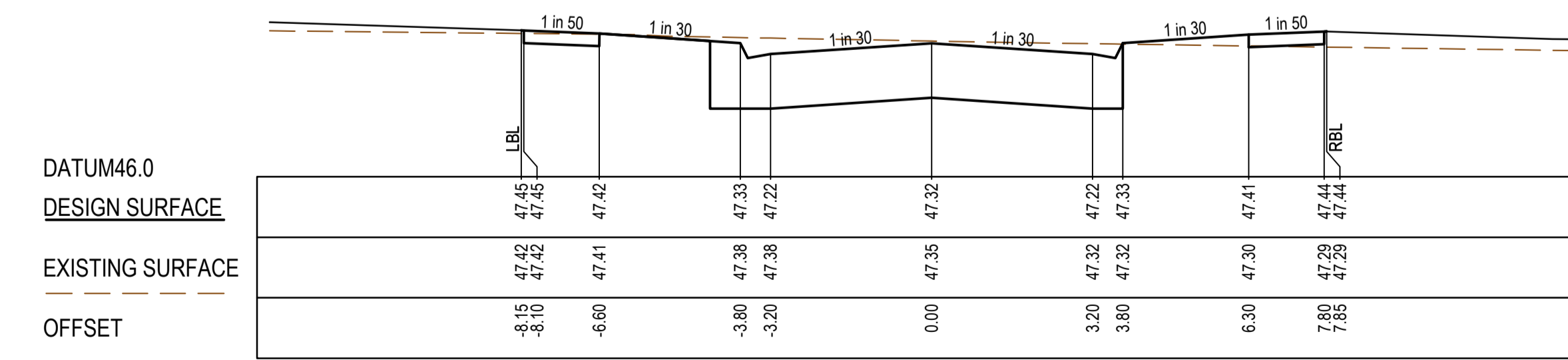
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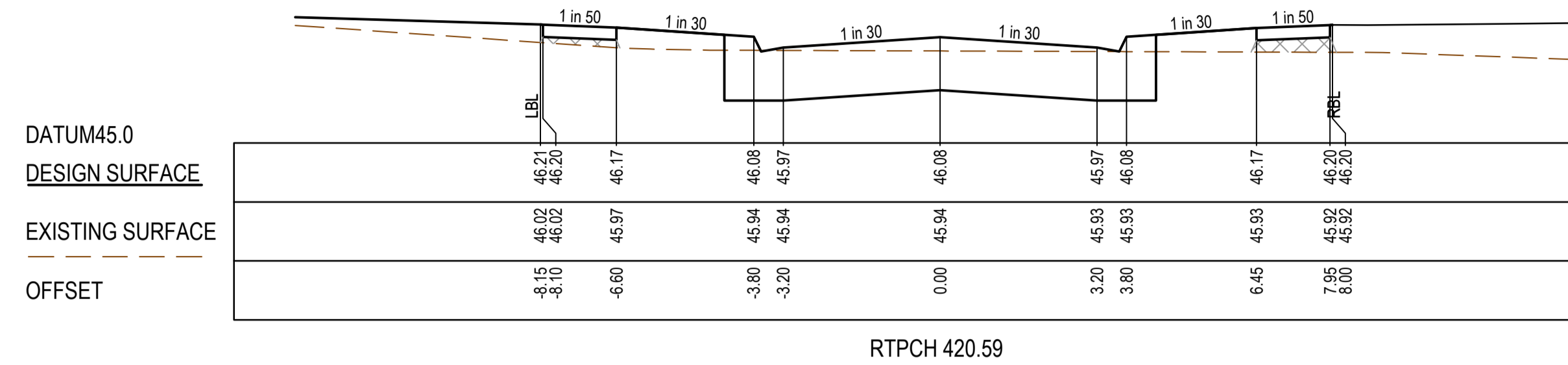
CH 331.46



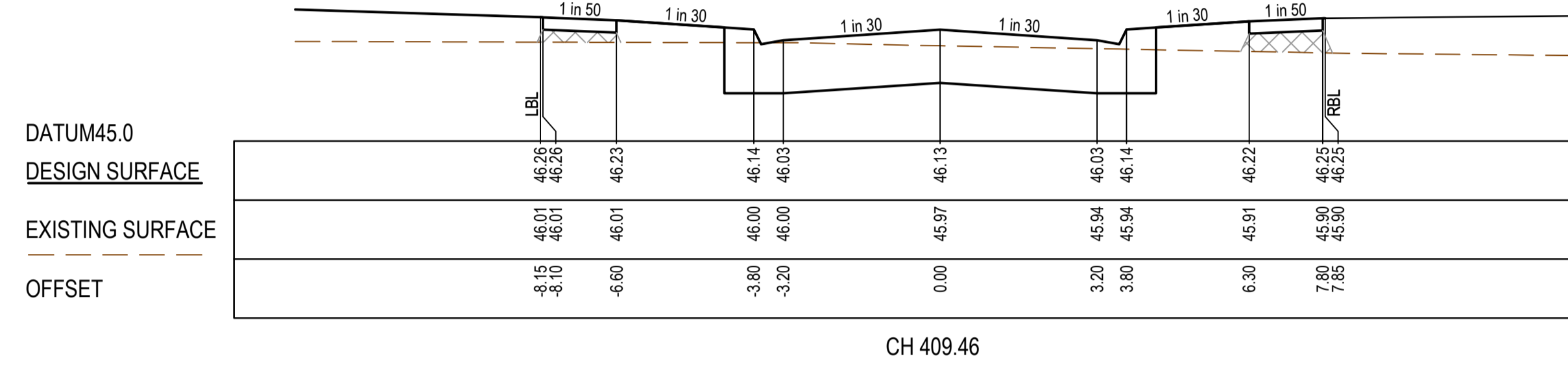
CH 318.96



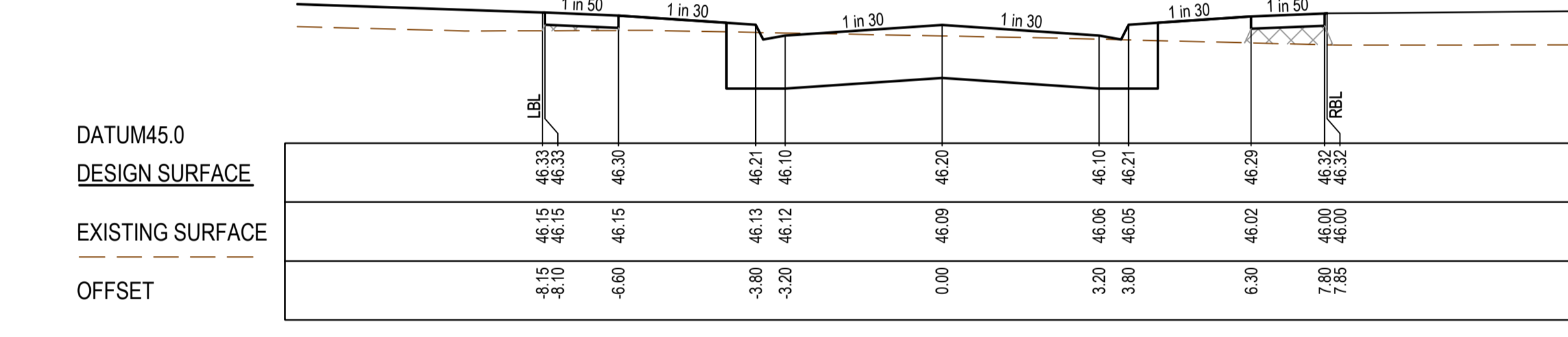
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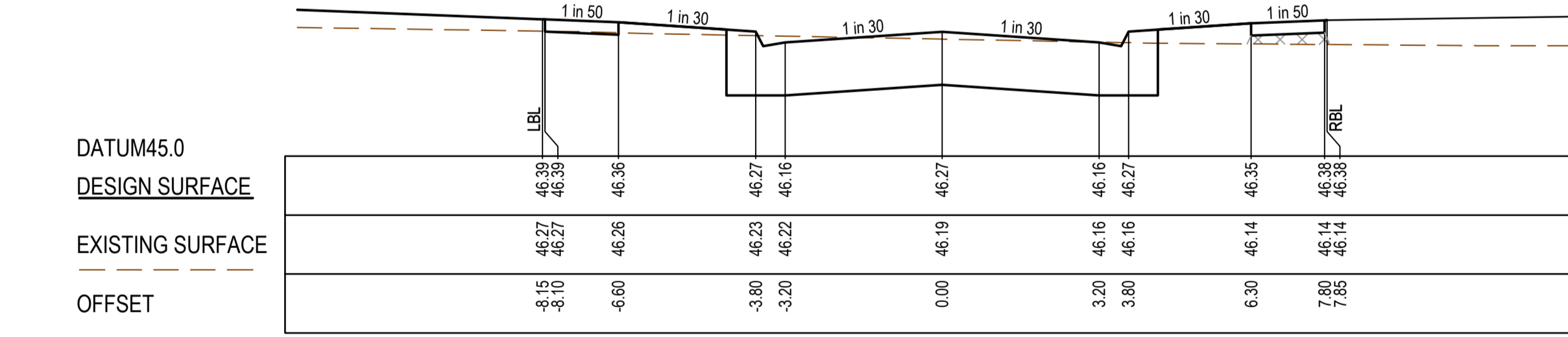
RTPCH 420.59



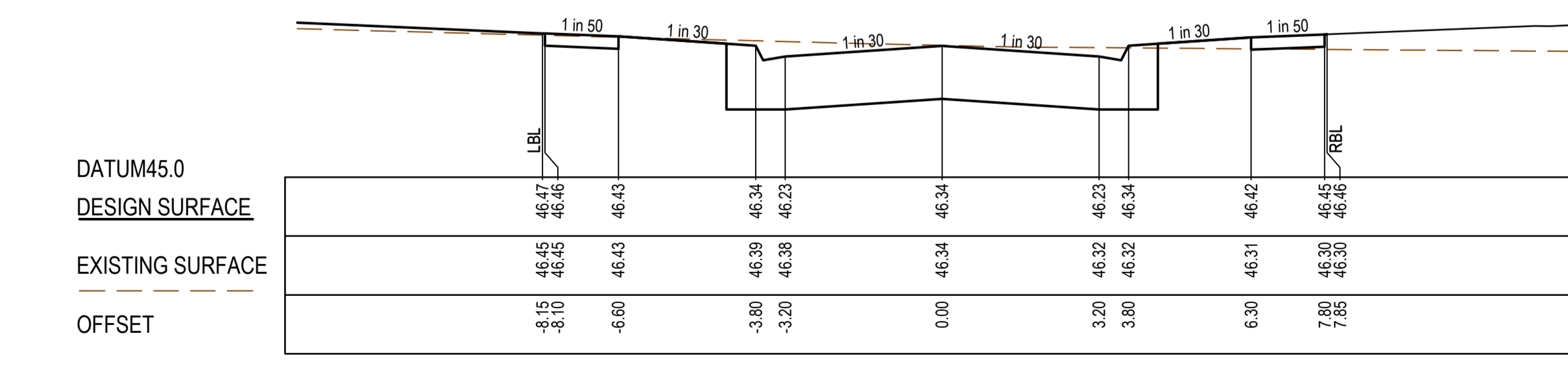
CH 409.46



CH 395.46



CH 382.96



CH 370.46

AS CONSTRUCTED PLANS
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Quality Management ISO 9001	Site Management AS/NZS 1880	DRAFTER	S.Sathasivam
Environmental Management ISO 14001	Global-Mark.com.au®	DESIGNER	J.Chen
		CHECKED	E.Wang
		AUTHORISED	B.Sanderson
		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

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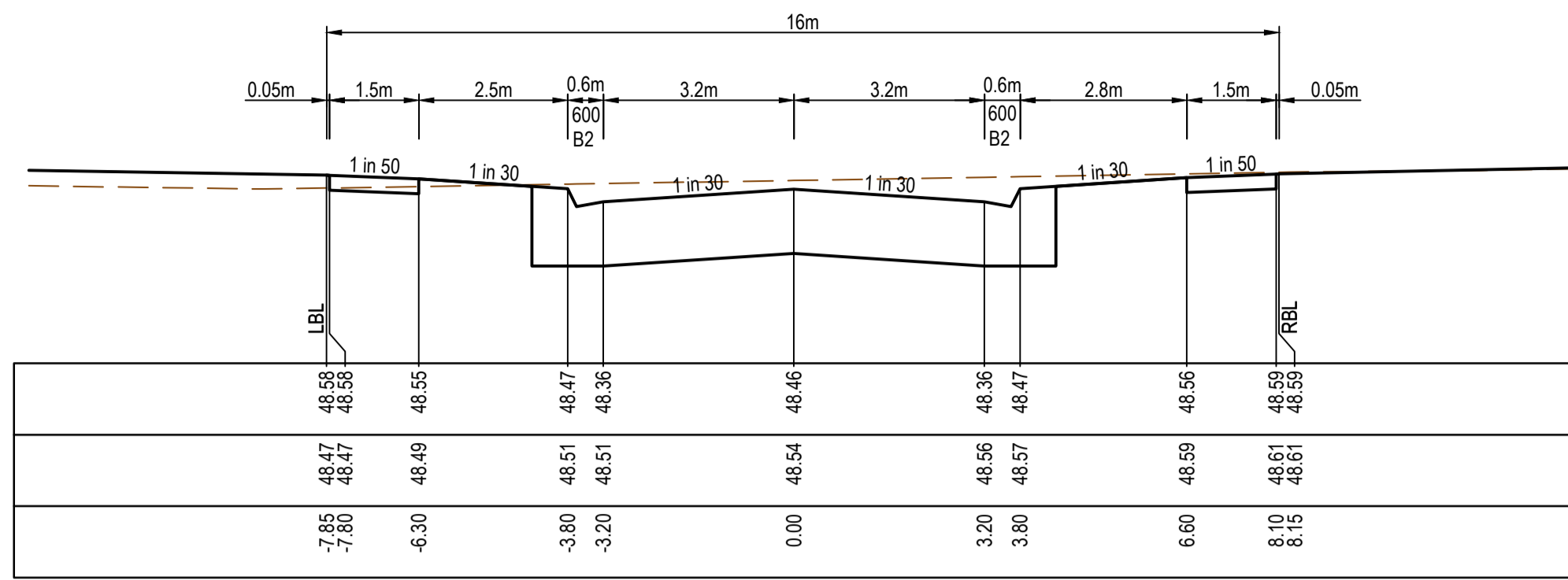
GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Cross Sections: Cherish Drive

MELWAYS REF 359 F9	PROJECT / DRAWING No 2360E-02-07	SHEET No 07 of 17	REVISION 1
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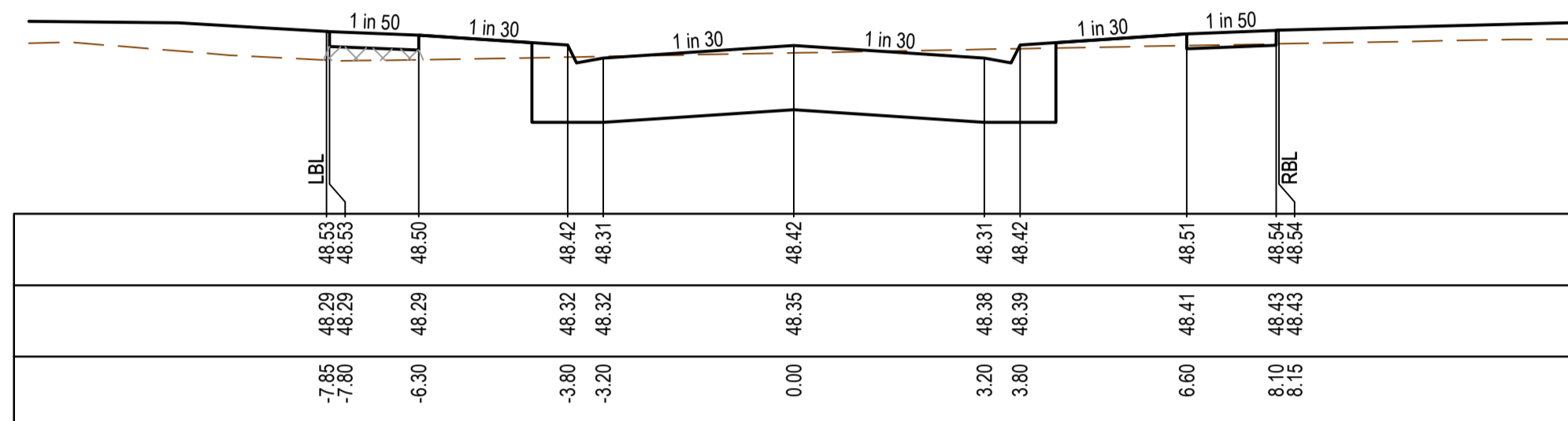
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE

DATUM47.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET



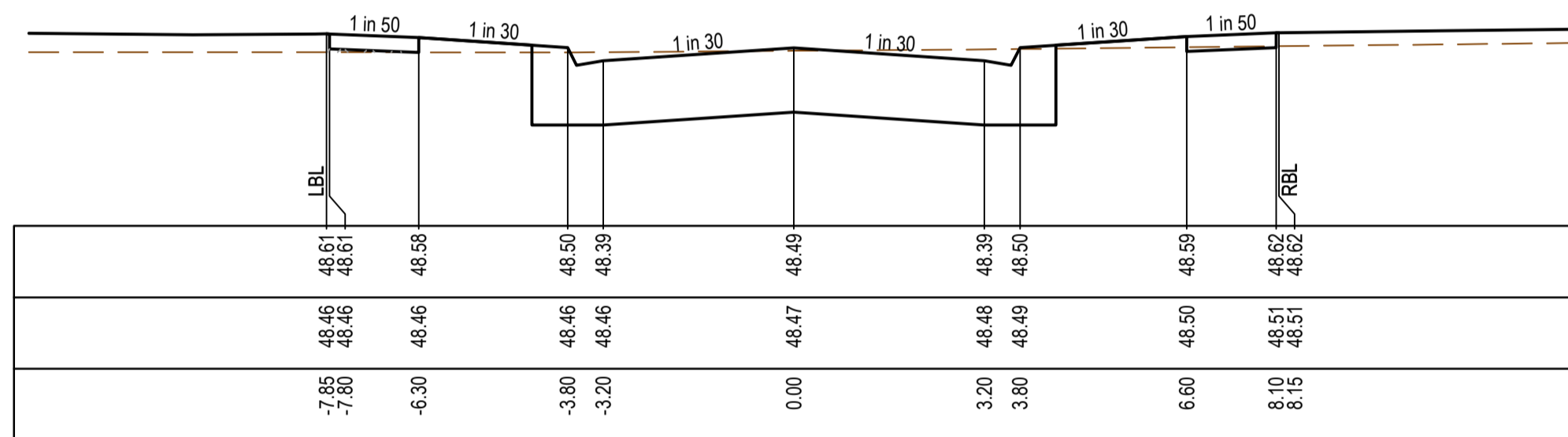
CH 173.65

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EXISTING SURFACE
OFFSET



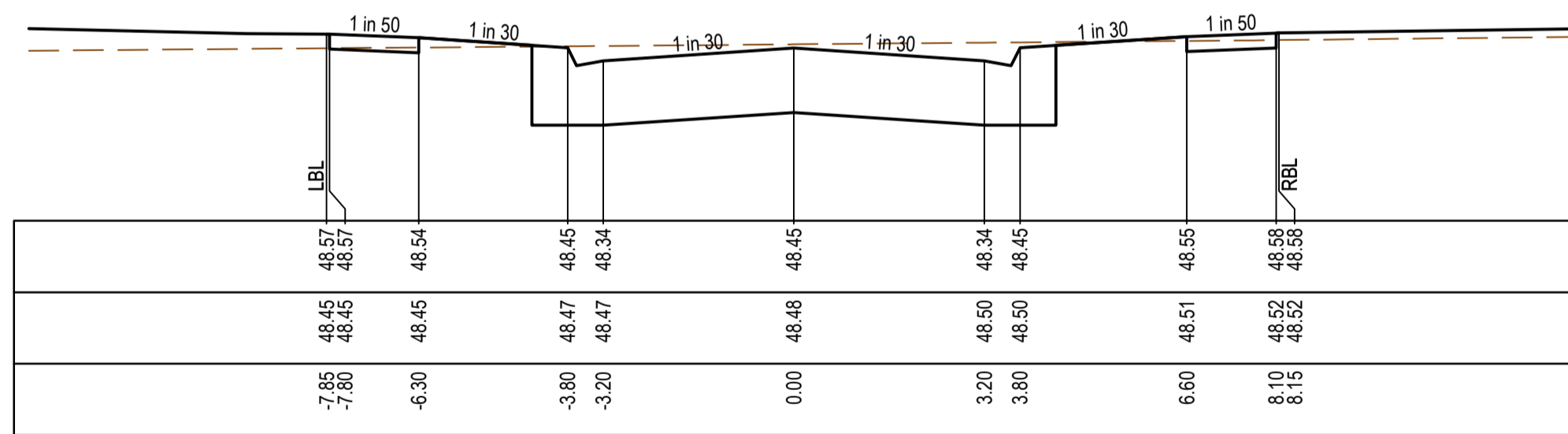
LTPCH 163.80

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EXISTING SURFACE
OFFSET



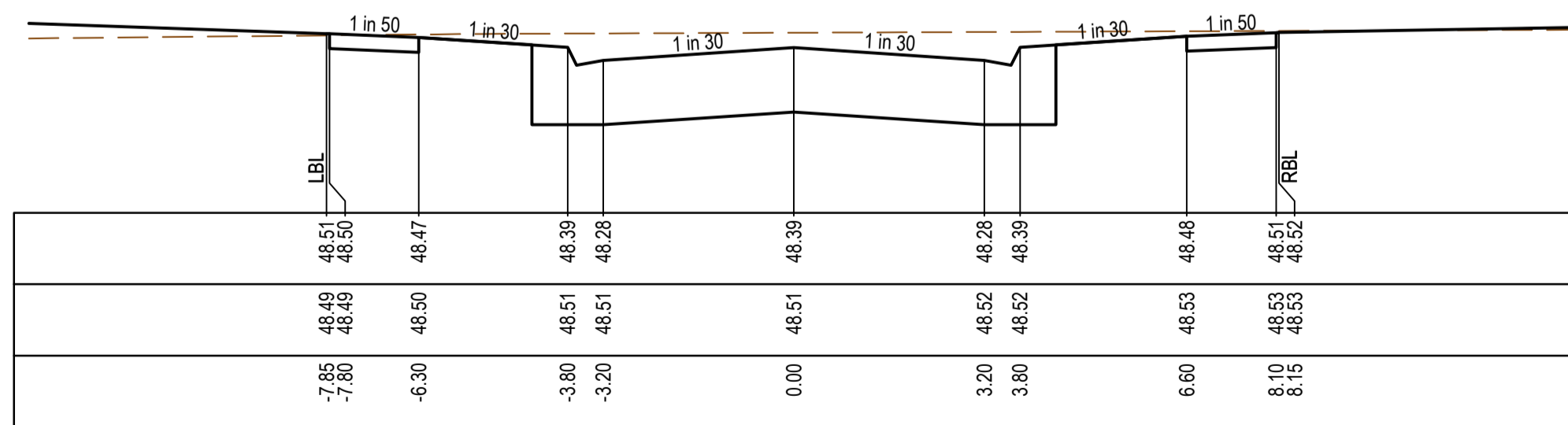
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EXISTING SURFACE
OFFSET



CH 131.15

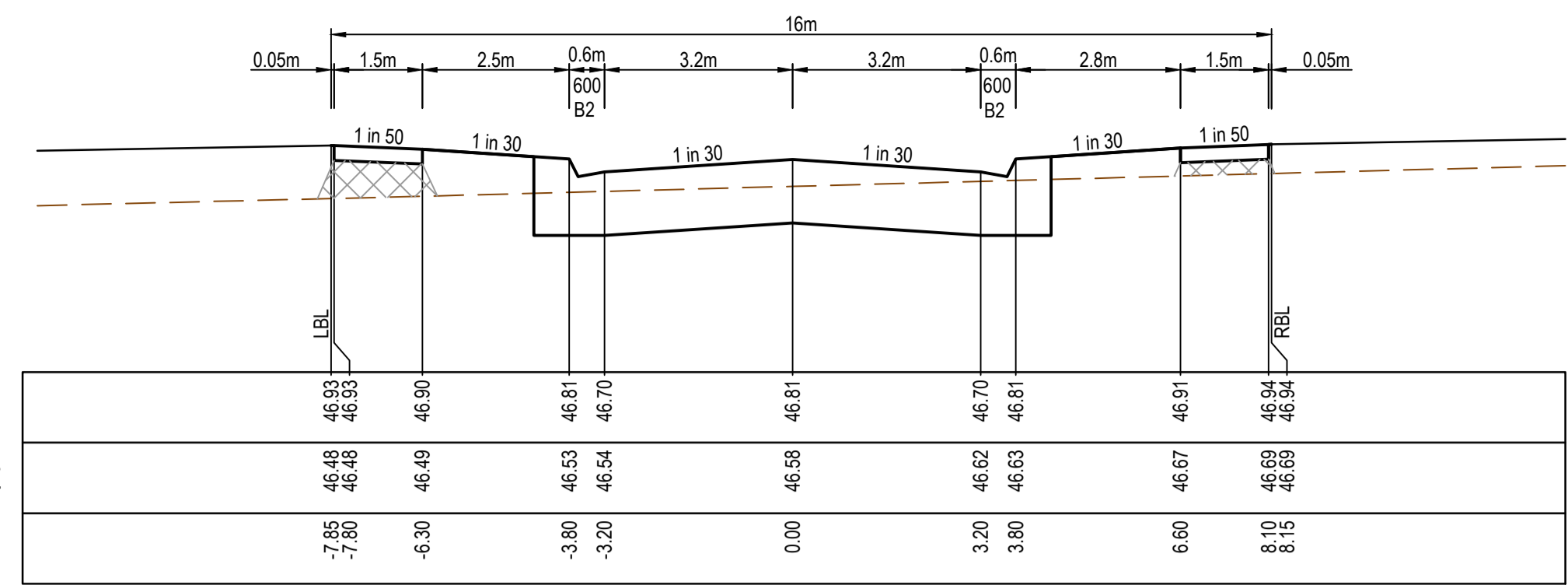
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DESIGN SURFACE
EXISTING SURFACE
OFFSET



CH 118.65

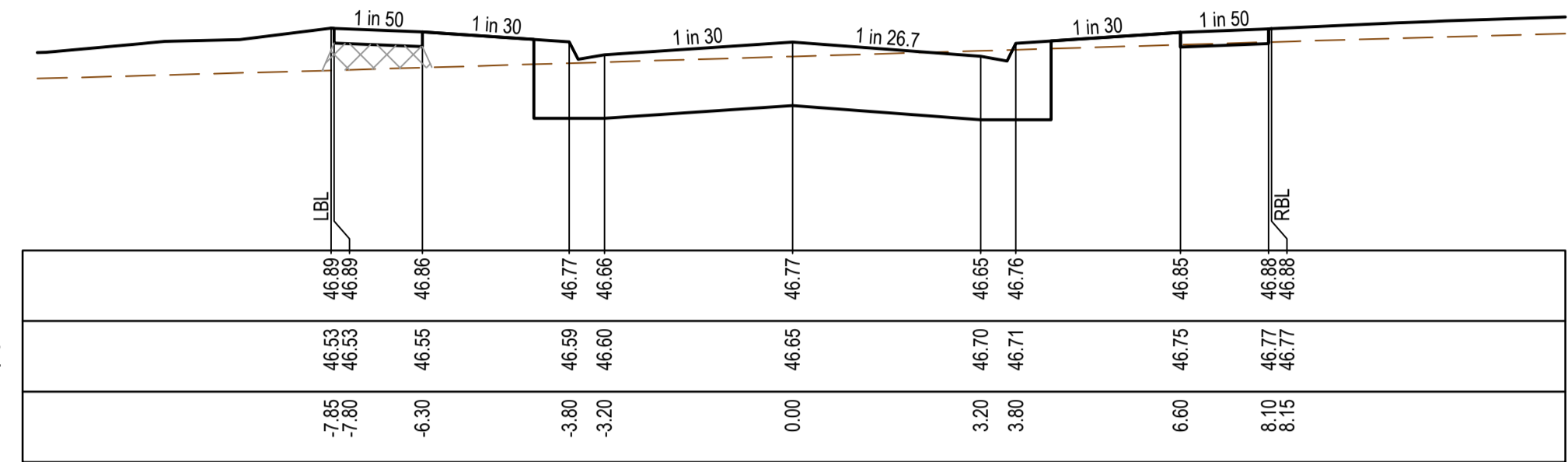
REJOICE STREET CROSS SECTIONS

DATUM45.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET



CH 39.85

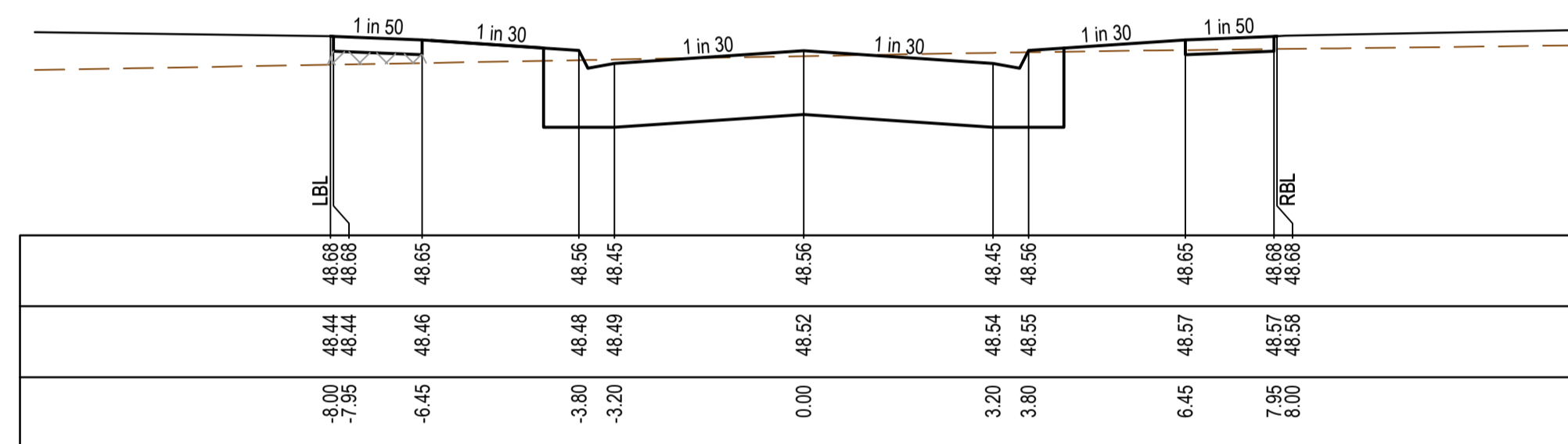
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DESIGN SURFACE
EXISTING SURFACE
OFFSET



TPCH 11.80

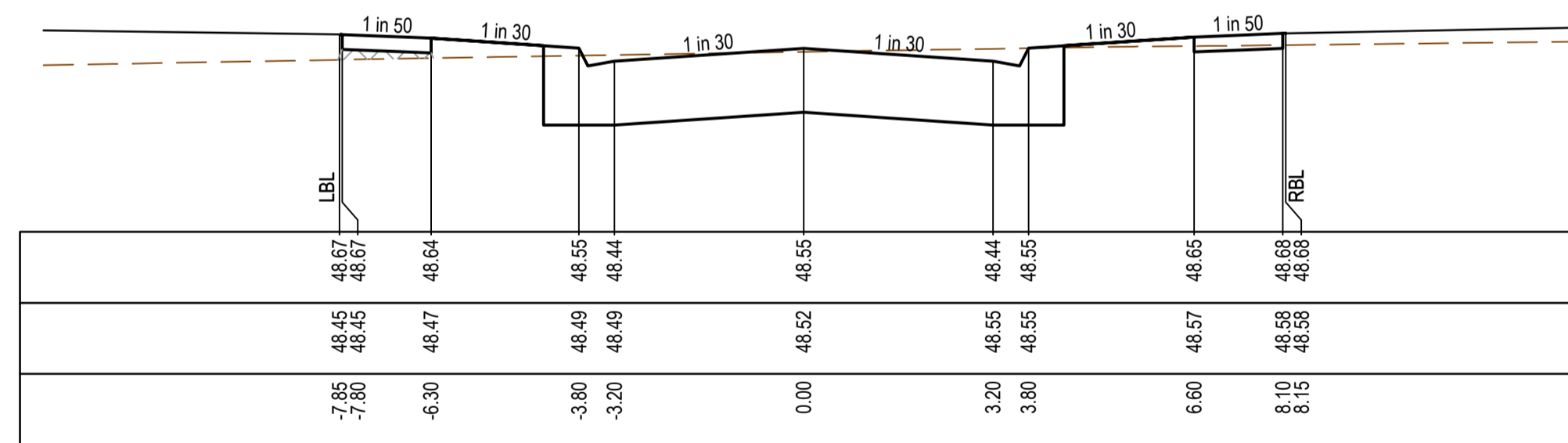
SPREE STREET CROSS SECTIONS

DATUM47.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET



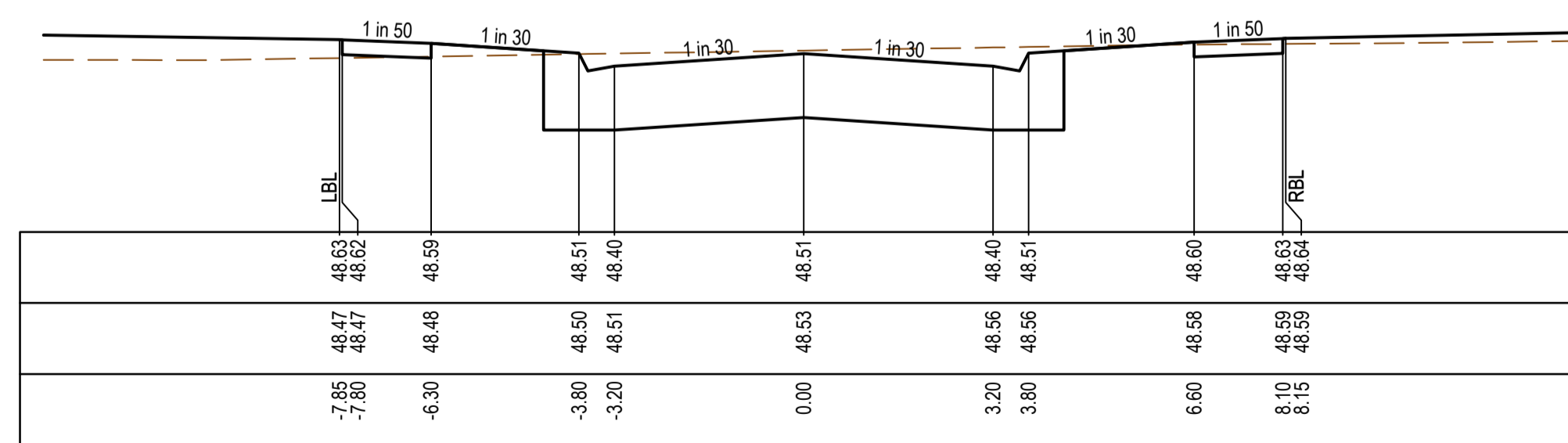
CH 192.92

DATUM47.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET



CH 190.65

DATUM47.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET



CH 182.15

REJOICE STREET CROSS SECTIONS

AS CONSTRUCTED PLANS

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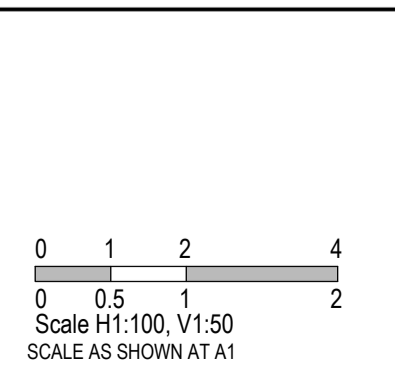
AS CONSTRUCTED

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

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



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Member of the **Surbana Jurong Group**

ABN 47 065 475 149

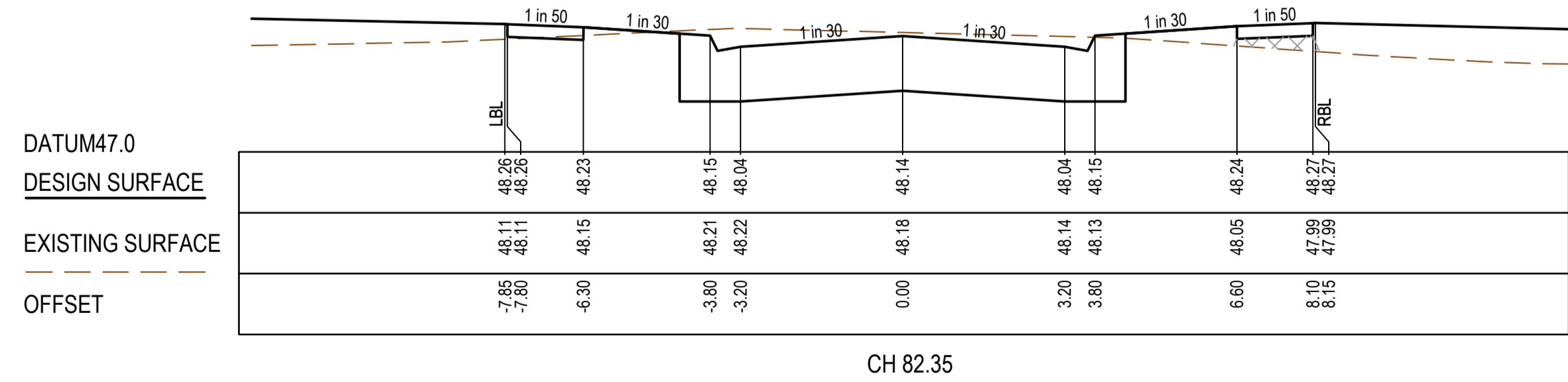
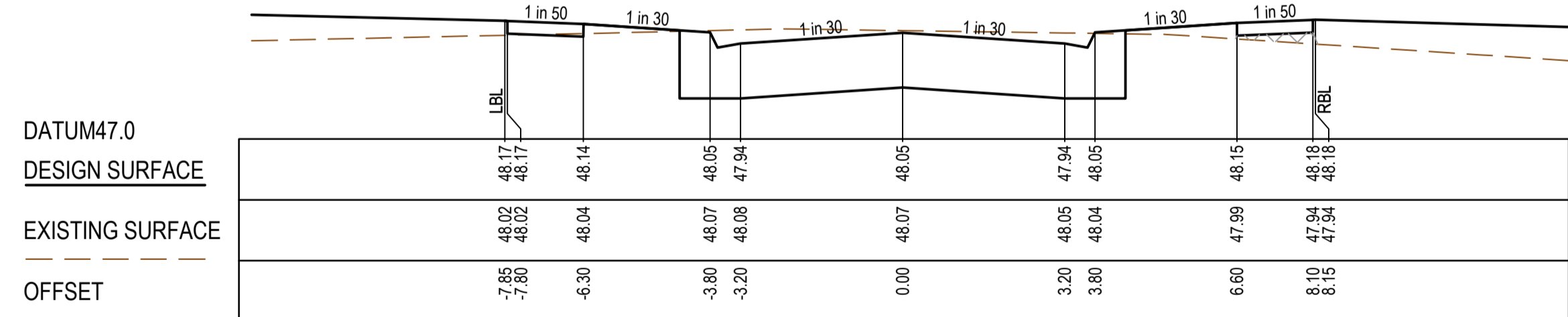
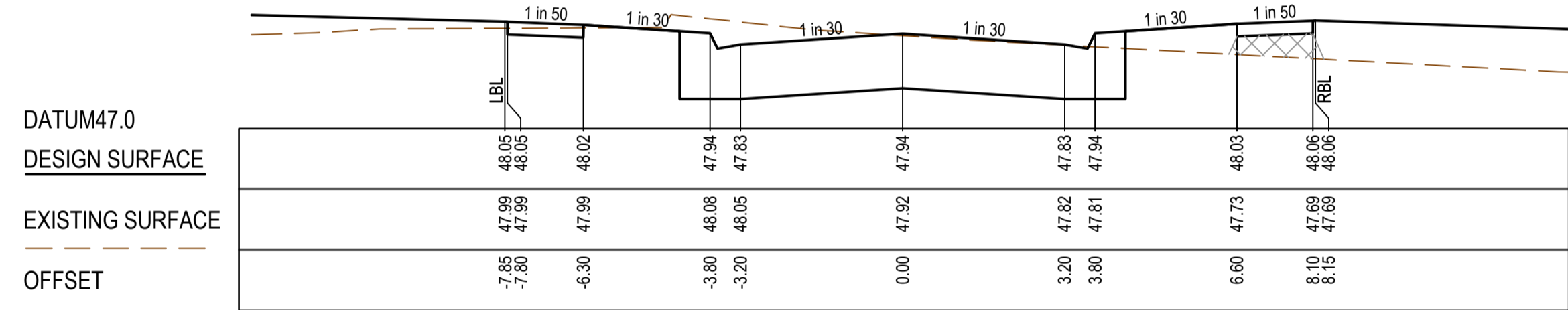
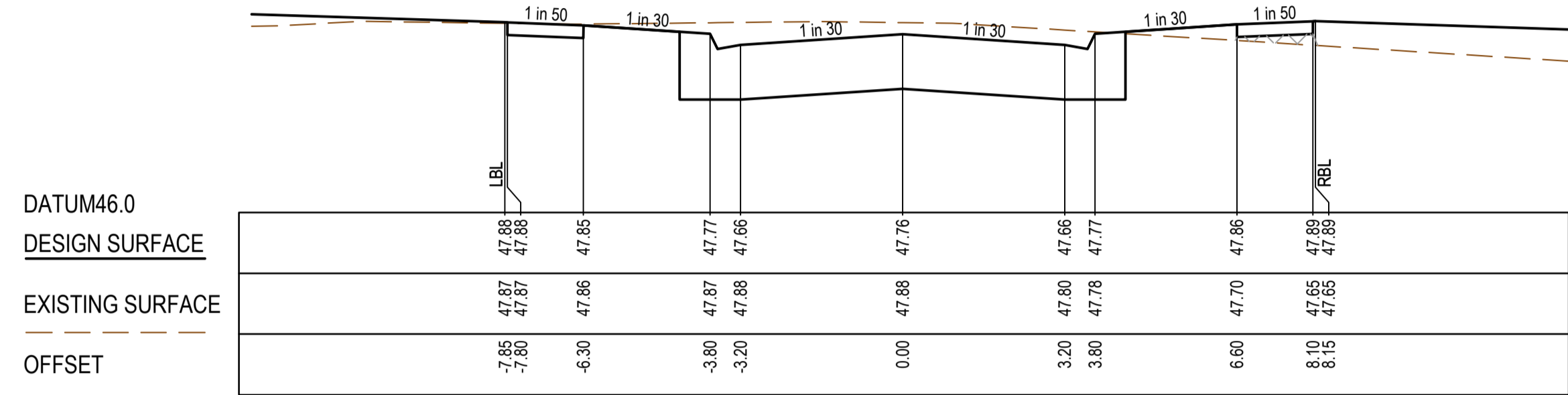
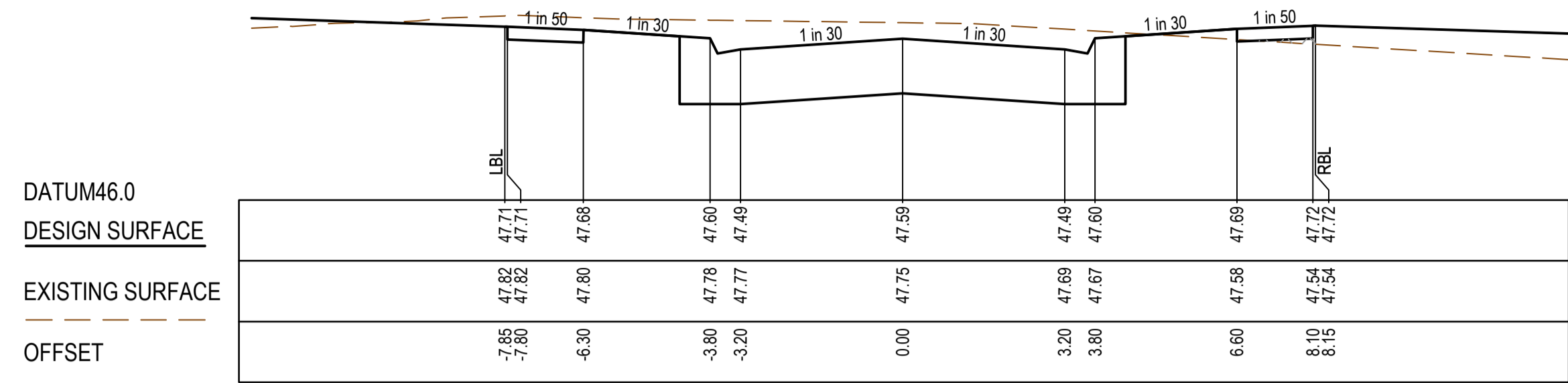
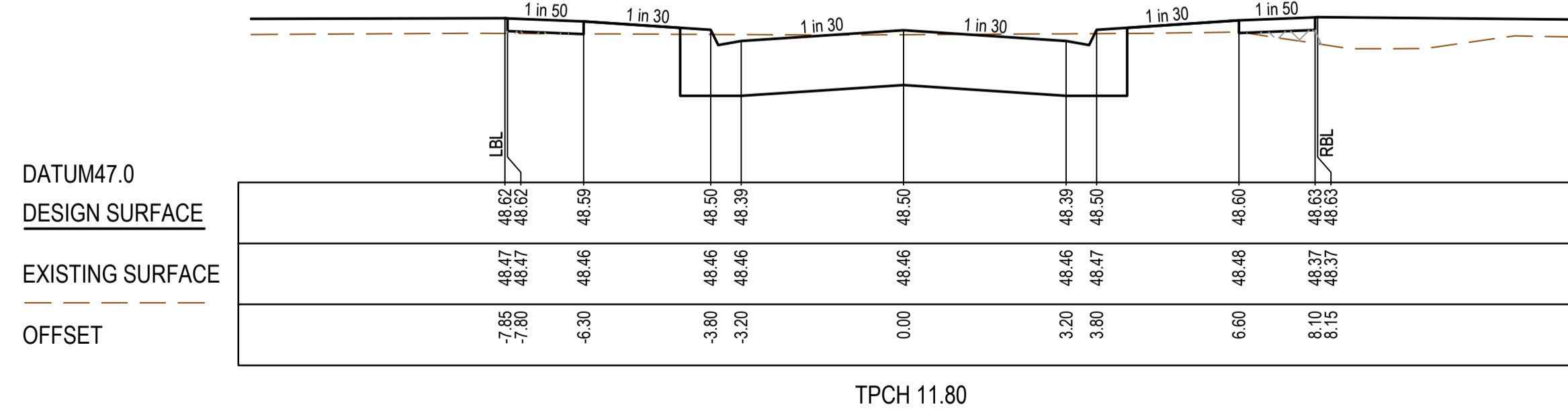
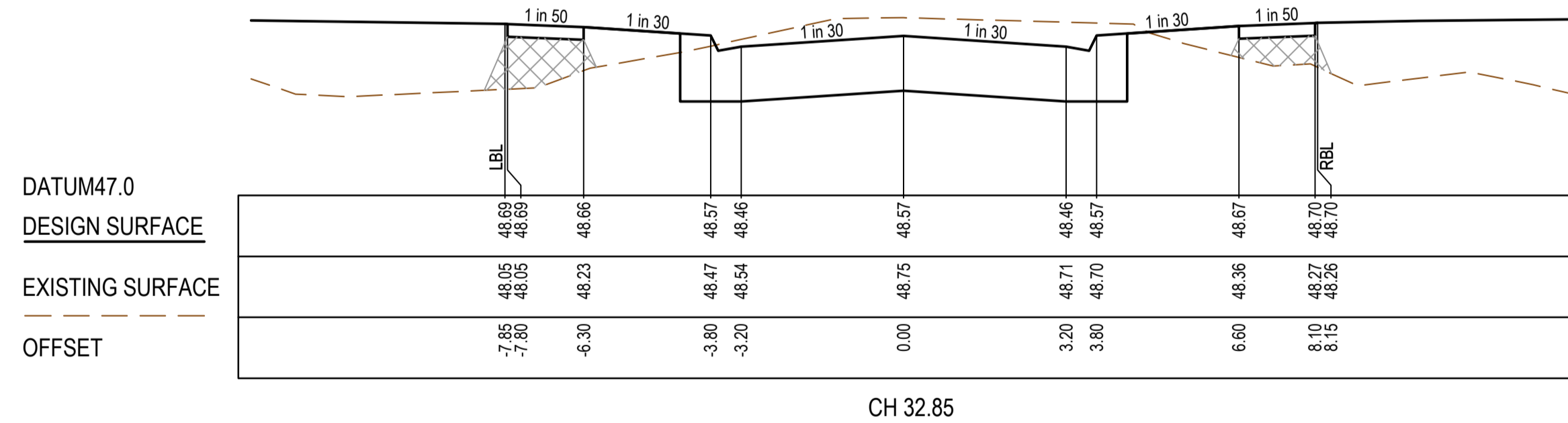
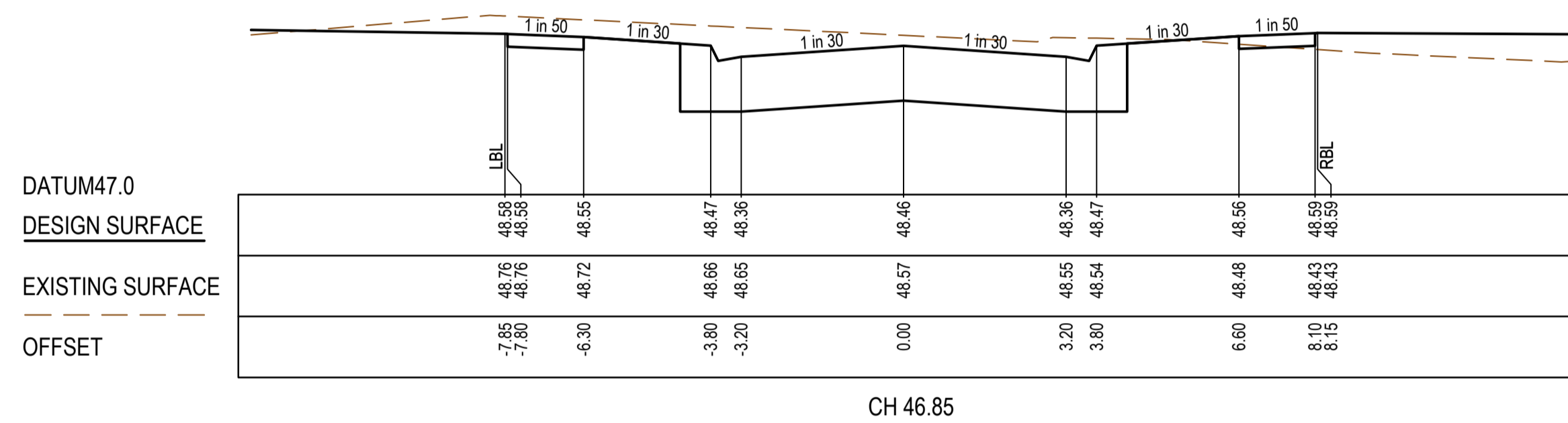
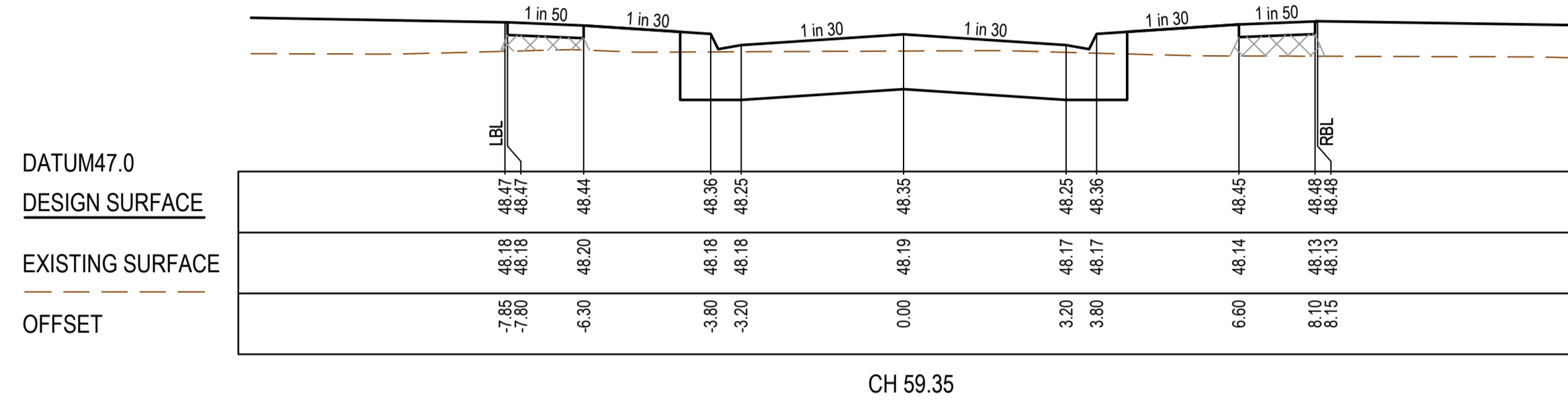
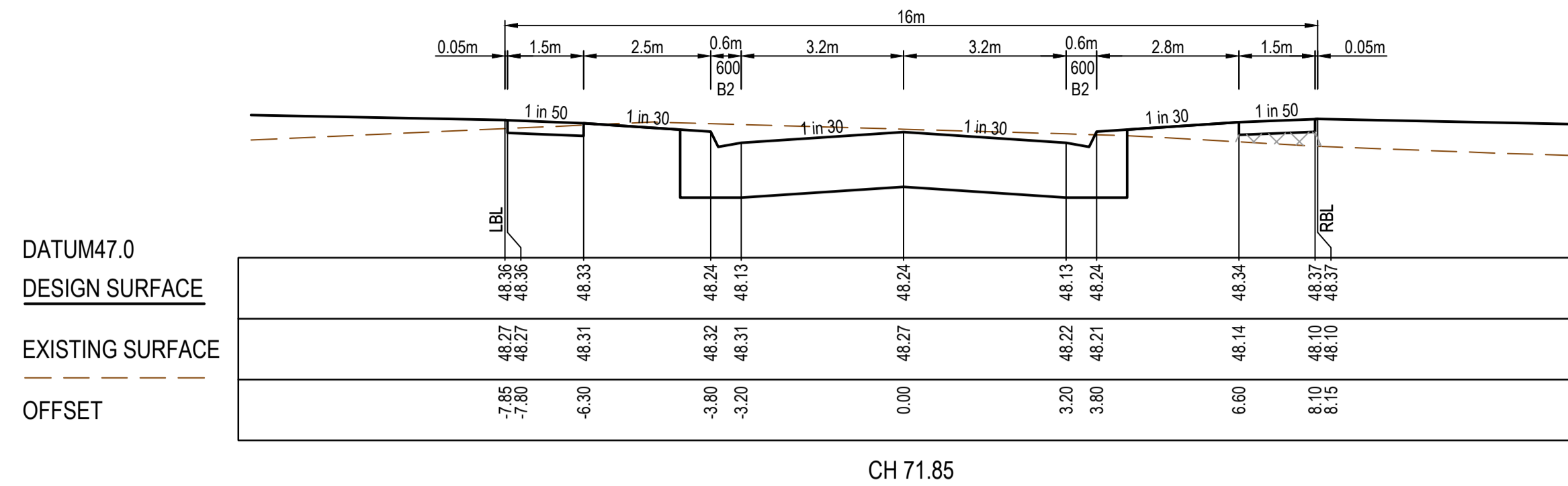
Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Cross Sections: Rejoice Street
 & Spree Street

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-02-08	08 of 17	1

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



AS CONSTRUCTED PLANS

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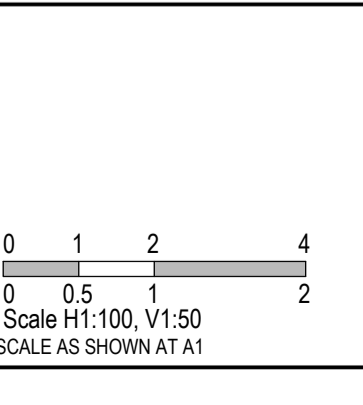
AS CONSTRUCTED

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

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



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Member of the **Surbana Jurong Group**

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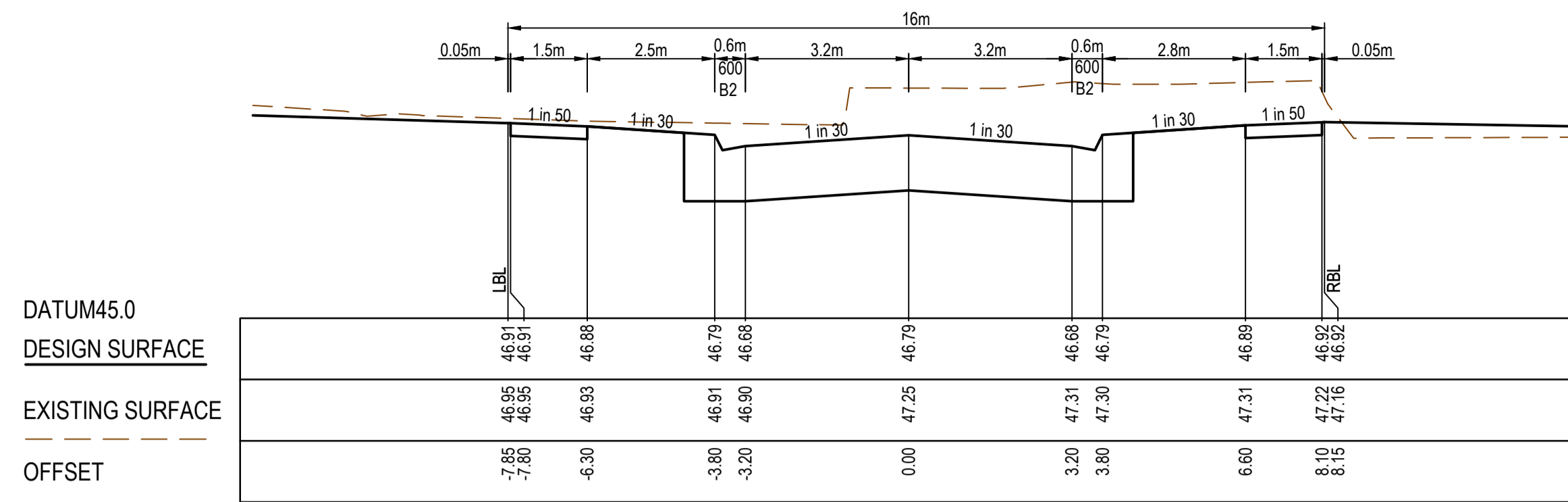
Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

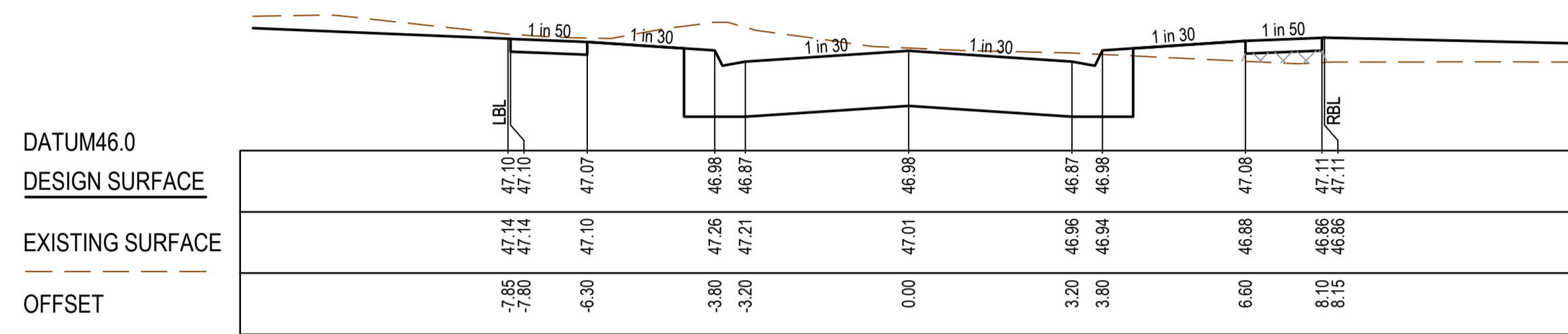
Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Cross Sections: Feast Way
 Ch 11.80 - Ch 131.85

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-02-09	09 of 17	1

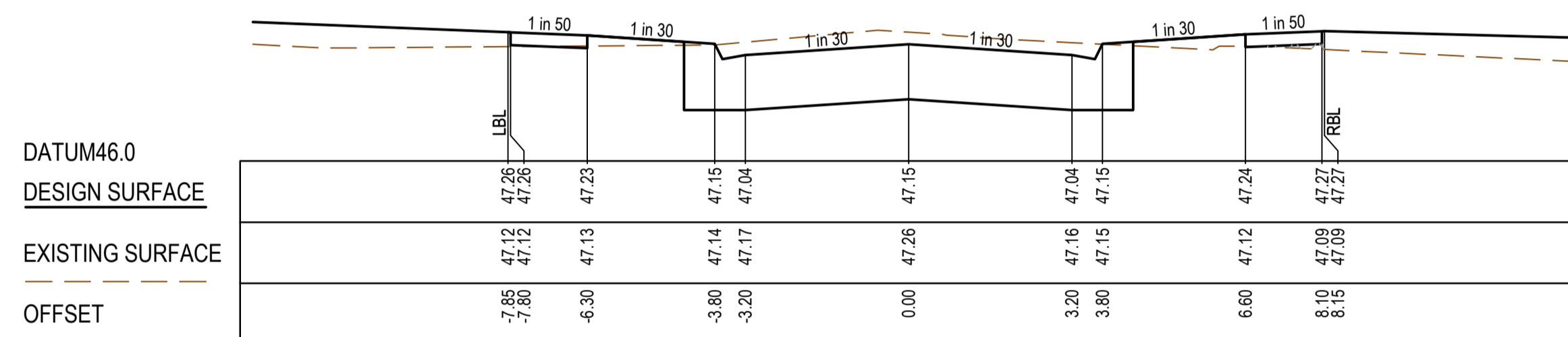
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



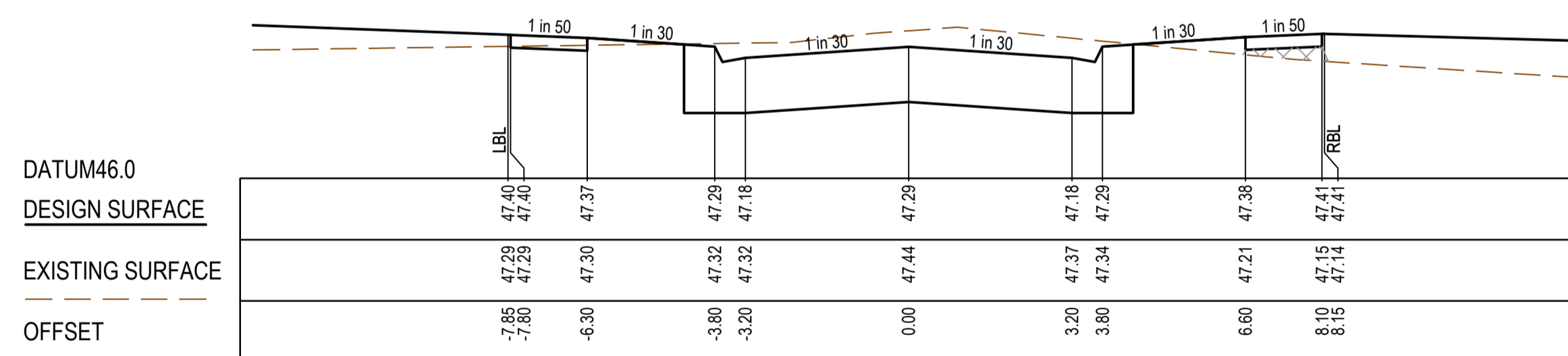
CH 191.85



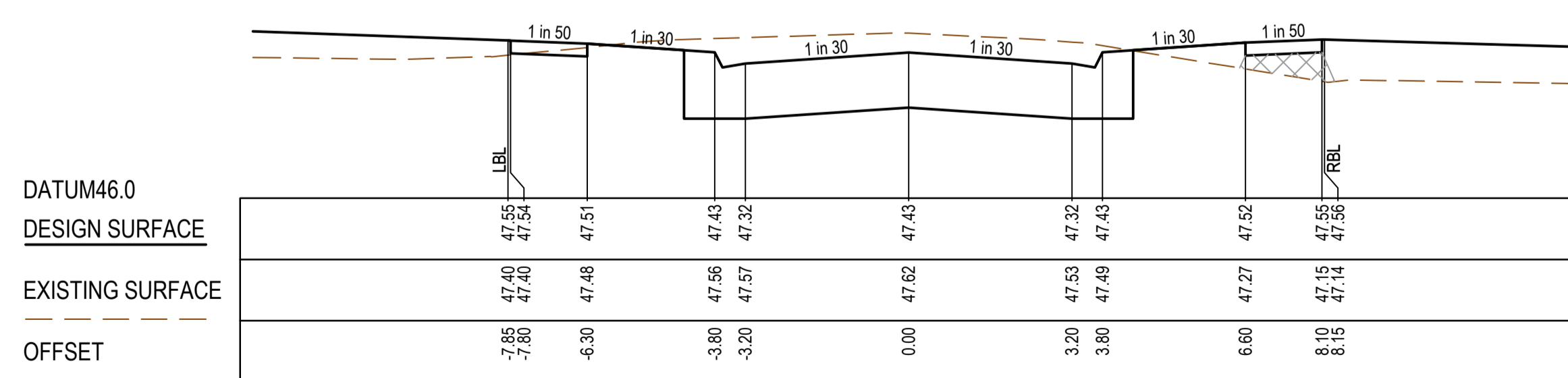
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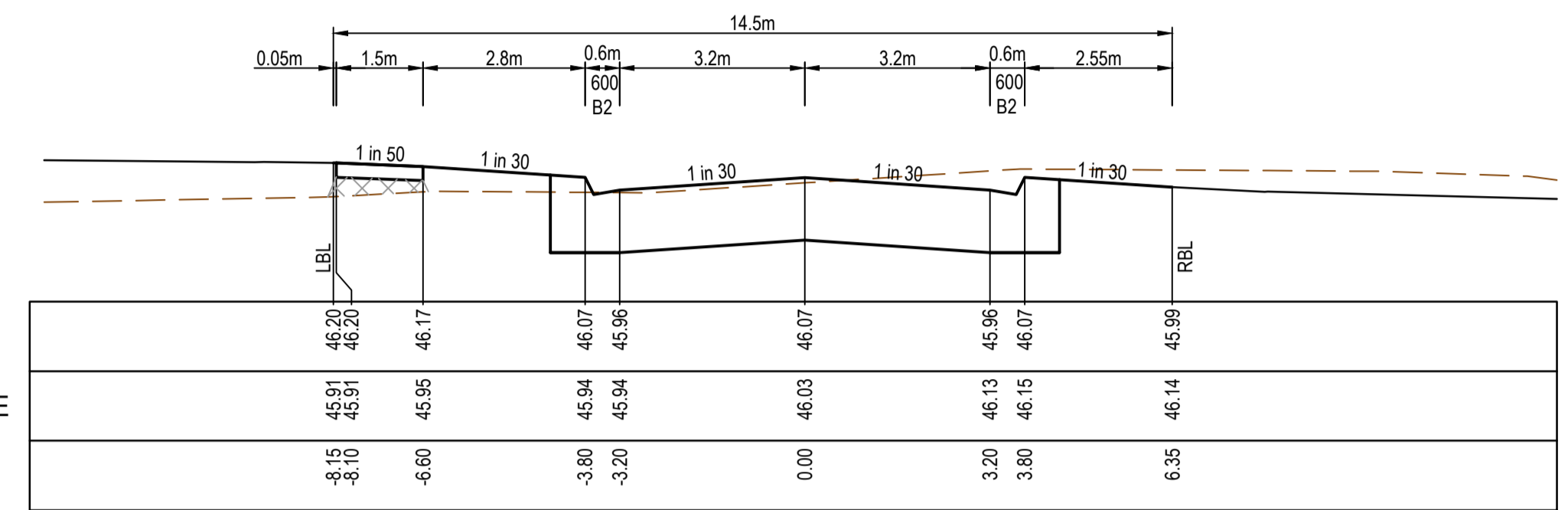
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CH 154.85



CH 144.35



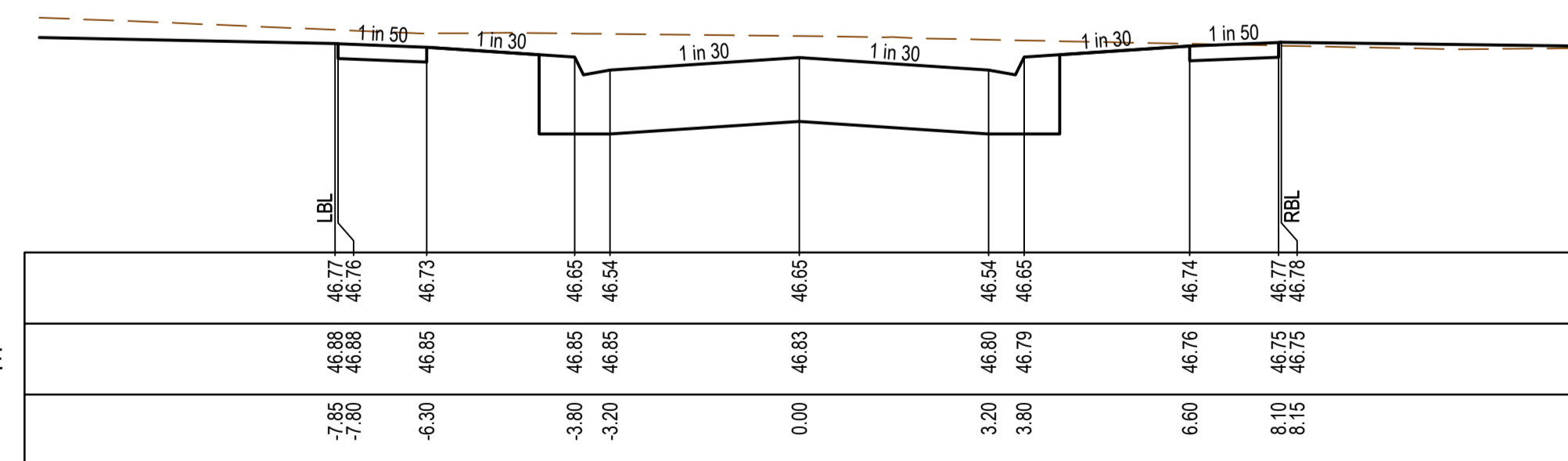
LTPCH 311.71

KEEPING TERRACE

DATUM45.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET

DATUM45.0
DESIGN SURFACE
EXISTING SURFACE
OFFSET

FEAST WAY



CH 202.56

AS CONSTRUCTED PLANS

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 		DRAFTER	S.Sathasivam
		DESIGNER	J.Chen
		CHECKED	E.Wang
		AUTHORISED	B.Sanderson
		REFERENCE No. 1	
		REFERENCE No. 2	

Scale H:1:100, V:1:50
SCALE AS SHOWN AT 1

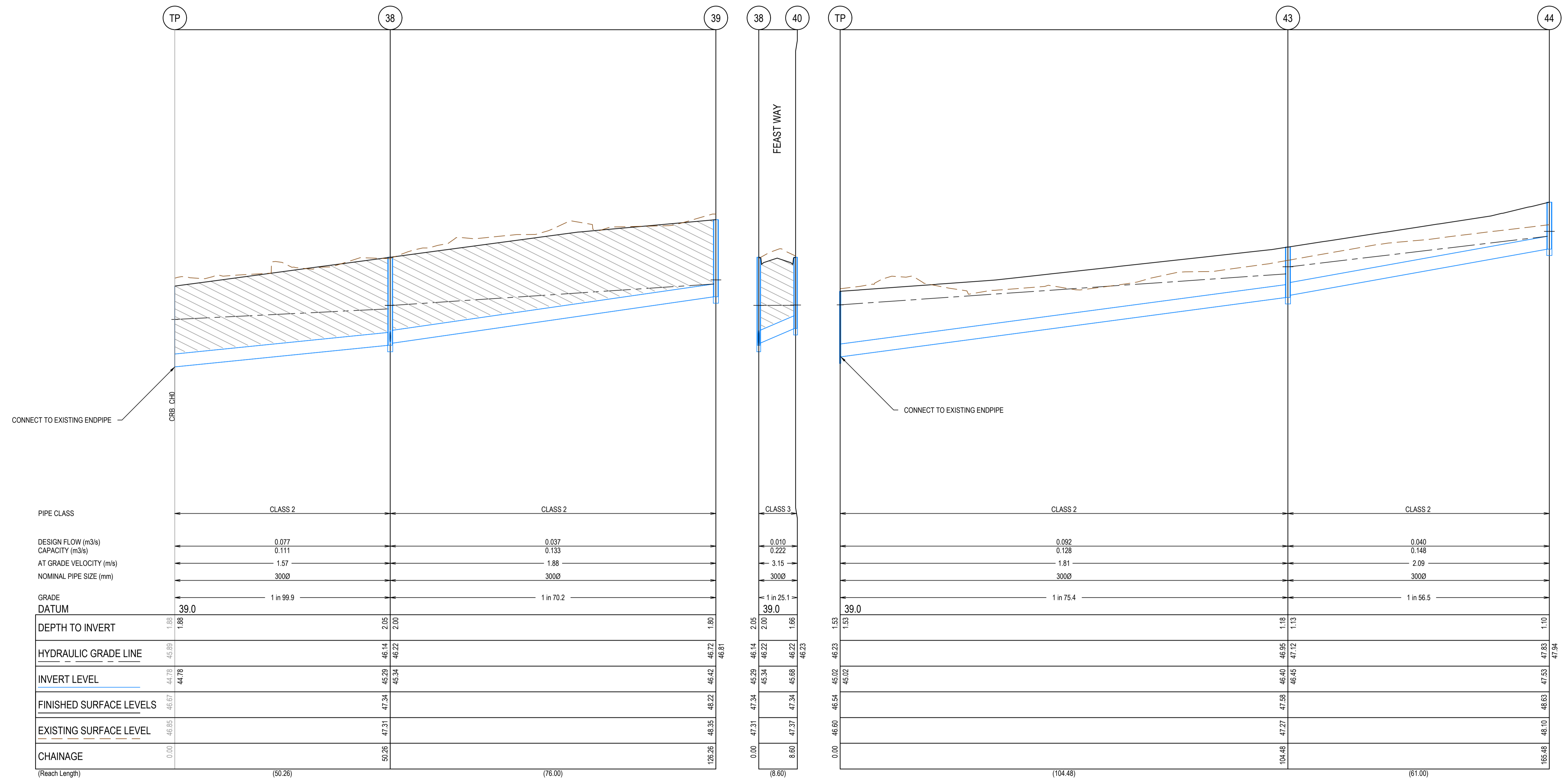
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Ph 03 9514 1500

GROWLAND

Marigold - Stage 2
Wyndham City Council
Road and Drainage
Cross Sections: Feast Way
Ch 144.35 - Ch 202.56 & Keeping Terrace

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-10	SHEET No. 10 of 17	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



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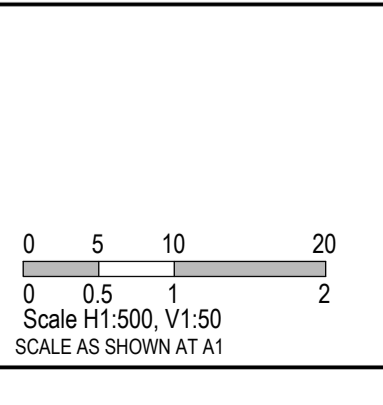
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Quality Management - ISO 9001
 OHS Management - AS/NZS 1800
 Environmental Management - ISO 14001

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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



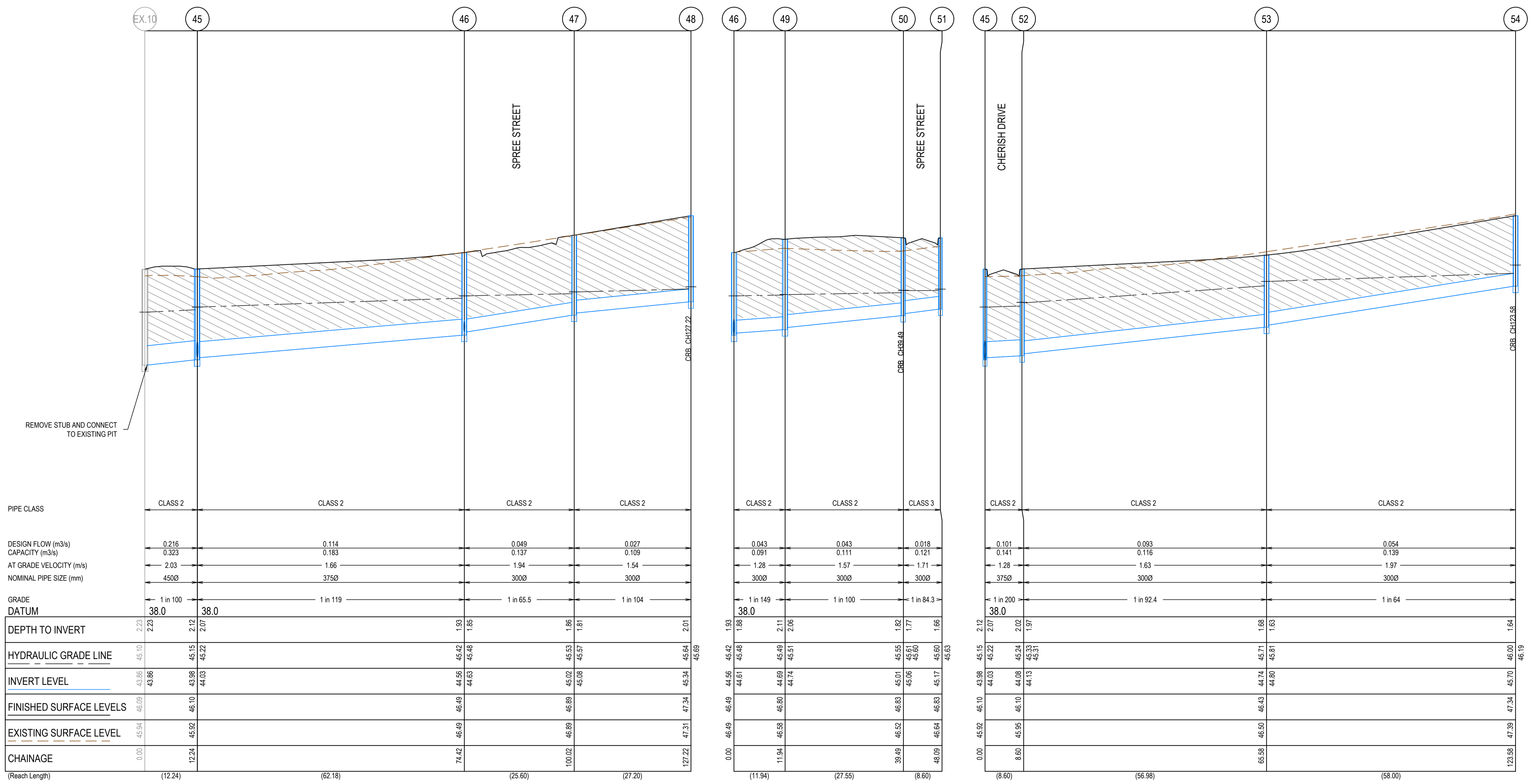
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GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-11	SHEET No. 11 of 17	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



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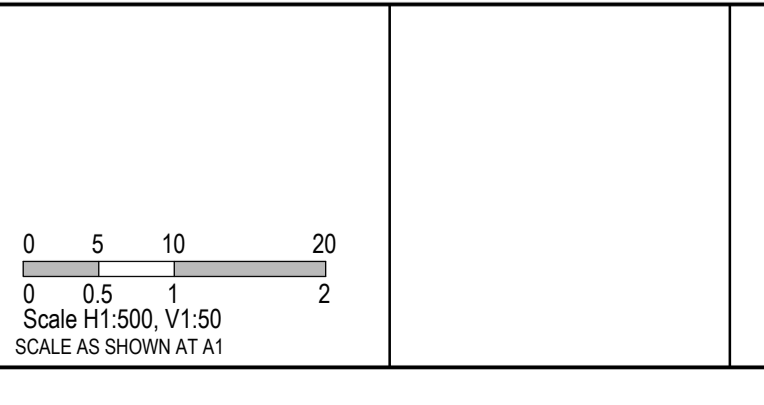
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Site Management - AS/NZS 1881
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Environmental Management - ISO 14001
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TITLE	NAME
DRAFTER	S.Sathasivam
DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
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REFERENCE No. 2	



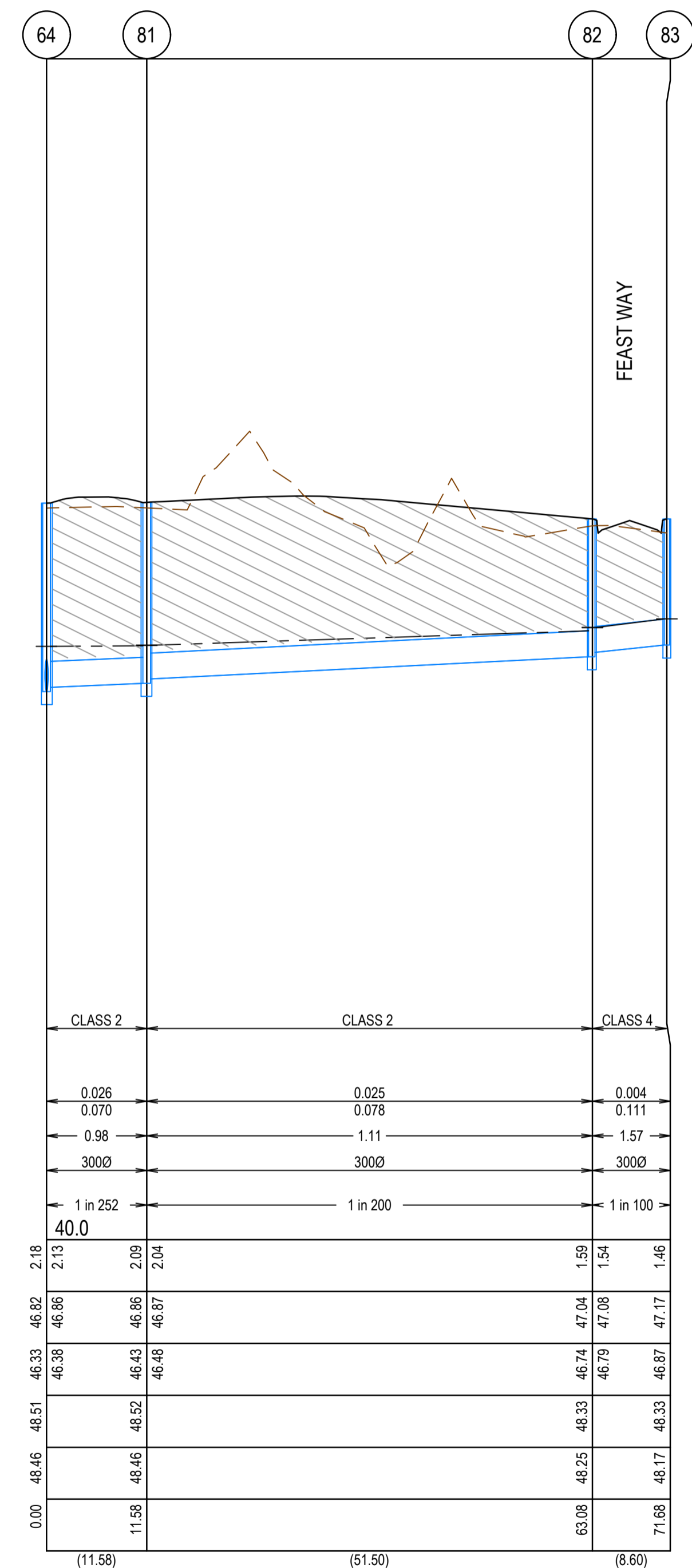
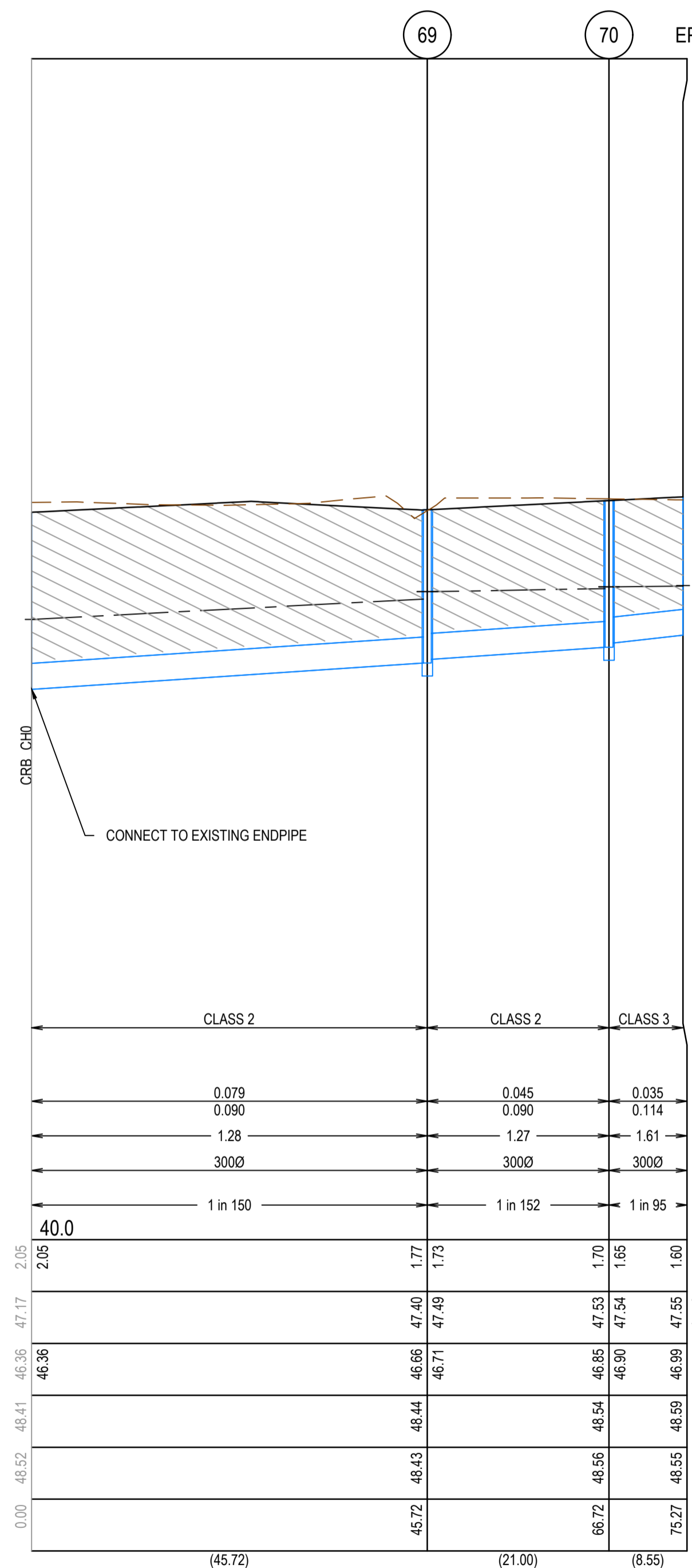
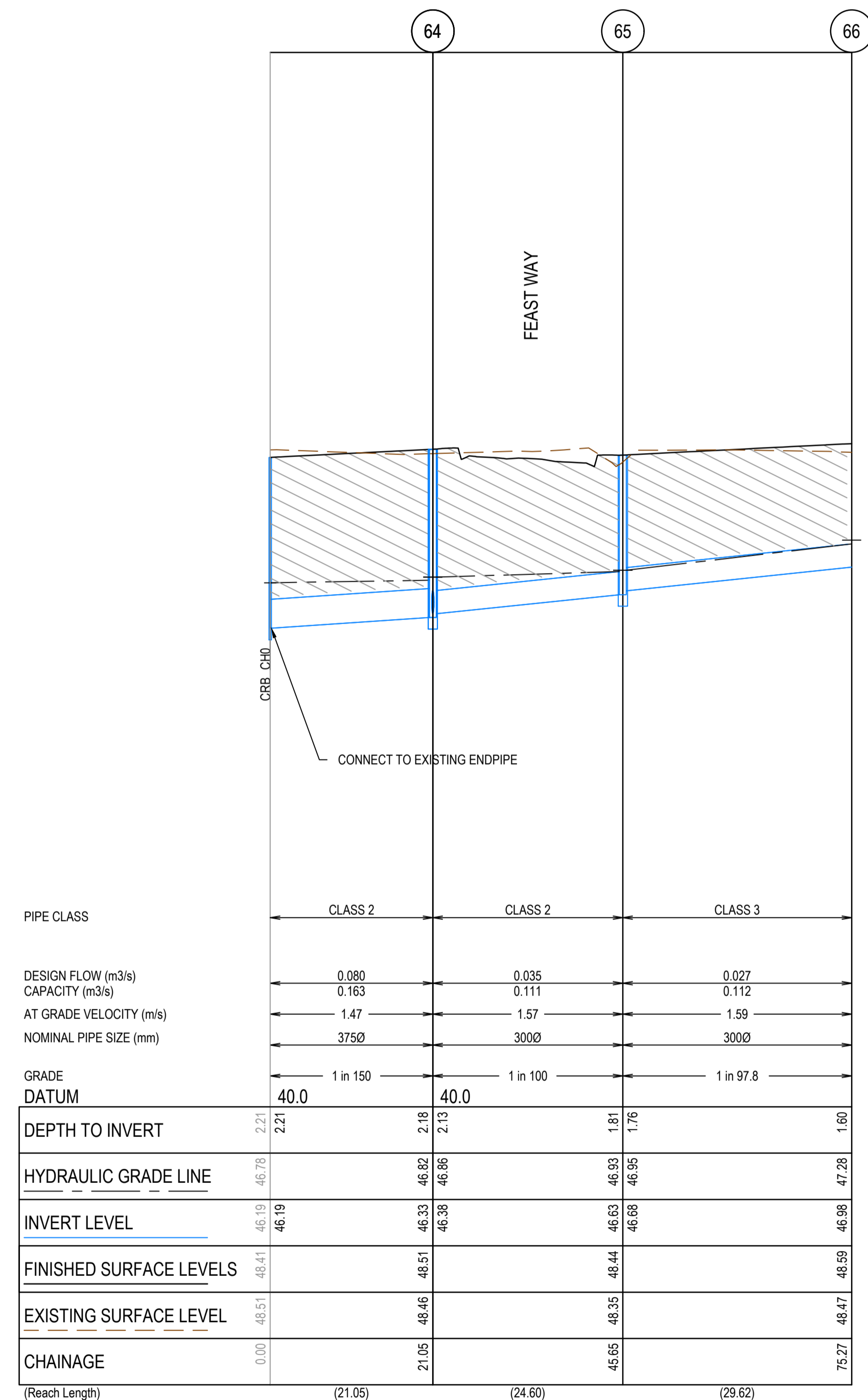
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GROWLAND

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

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-12	SHEET No. 12 of 17	REVISION 2
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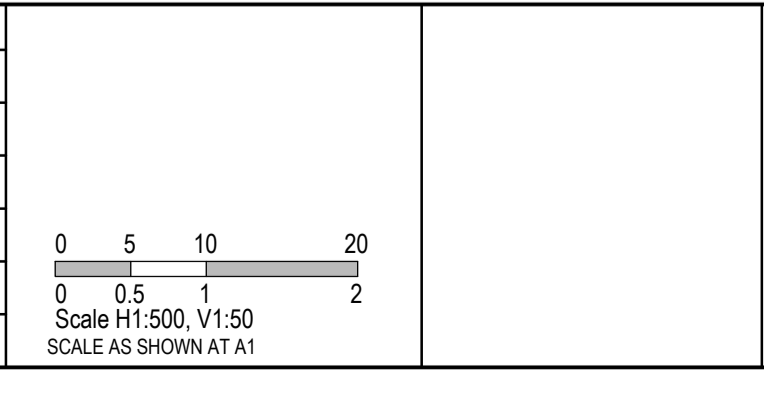
CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



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		AUTHORISED	B.Sanderson
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Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 3

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-13	SHEET No. 13 of 17	REVISION 2
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PIT NUMBER	TYPE	PIT SCHEDULE								STANDARD DRAWING	REMARKS
		INTERNAL		INLET		OUTLET		F.S.L.	DEPTH		
		WIDTH	LENGTH (mm)	DIAMETER (mm)	INV R.L. (m)	DIAMETER (mm)	INV R.L. (m)				
	Ex. END PIPE			300	44.783	300	44.776	46.668	1.892		CONNECT TO EXISTING ENDDPIPE
38	SINGLE SIDE ENTRY PIT GRATED	600	900	300	45.336	300	45.286	47.341	2.055	EDCM 601	
39	SINGLE SIDE ENTRY PIT GRATED	600	900			300	46.418	48.218	1.8	EDCM 601	
40	SINGLE SIDE ENTRY PIT GRATED	600	900			300	45.678	47.341	1.663	EDCM 601	
	Ex. END PIPE			300	45.016	300	45.016	46.545	1.529		CONNECT TO EXISTING ENDDPIPE
43	JUNCTION PIT	600	900	300	46.452	300	46.402	47.579	1.177	EDCM 605	
44	JUNCTION PIT	600	900			300	47.531	48.626	1.095	EDCM 605	
Ex.10		1050	900	450	43.863	825	43.675	46.093	2.418		
				675	43.695						
45	SINGLE SIDE ENTRY PIT GRATED	600	900	375	44.035	450	43.985	46.102	2.117	EDCM 601	
				375	44.035						
46	SINGLE SIDE ENTRY PIT GRATED	600	900	300	44.634	375	44.559	46.485	1.926	EDCM 601	
				300	44.609						
47	SINGLE SIDE ENTRY PIT GRATED	600	900	300	45.075	300	45.025	46.889	1.864	EDCM 601	
48	SINGLE SIDE ENTRY PIT GRATED	600	900			300	45.336	47.344	2.008	EDCM 601	PROVIDE 300 DIA. STUB IN NORTHERN WALL AT IL45.786
49	SINGLE SIDE ENTRY PIT GRATED	600	900	300	44.739	300	44.689	46.796	2.107	EDCM 601	
50	SINGLE SIDE ENTRY PIT GRATED	600	900	300	45.064	300	45.014	46.829	1.815	EDCM 601	PROVIDE 300 DIA. STUB IN WESTERN WALL AT IL45.064
51	SINGLE SIDE ENTRY PIT GRATED	600	900			300	45.166	46.829	1.663	EDCM 601	
52	SINGLE SIDE ENTRY PIT GRATED	600	900	300	44.128	375	44.078	46.102	2.024	EDCM 601	
53	SINGLE SIDE ENTRY PIT GRATED	600	900	300	44.795	300	44.745	46.426	1.681	EDCM 601	
54	SINGLE SIDE ENTRY PIT GRATED	600	900			300	45.701	47.344	1.643	EDCM 601	
	Ex. END PIPE			375	46.194	375	46.194	48.407	2.213		CONNECT TO EXISTING ENDDPIPE
64	SINGLE SIDE ENTRY PIT GRATED	900	900	300	46.384	375	46.334	48.512	2.178	EDCM 601	
				300	46.384						
65	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	46.68	300	46.63	48.438	1.808	EDCM 602	
66	END PIPE	600	900			300	46.983	48.586	1.603		
	Ex. END PIPE			300	46.361	300	46.361	48.407	2.046		CONNECT TO EXISTING ENDDPIPE
69	DOUBLE SIDE ENTRY PIT GRATED	600	900	300	46.708	300	46.665	48.436	1.771	EDCM 602	
70	SINGLE SIDE ENTRY PIT GRATED	600	900	300	46.896	300	46.846	48.543	1.697	EDCM 601	
						300	46.986	48.586	1.6		PROVIDE ENDDPIPE FOR FUTURE CONNECTION
81	SINGLE SIDE ENTRY PIT GRATED	600	900	300	46.48	300	46.43	48.522	2.092	EDCM 601	
82	SINGLE SIDE ENTRY PIT GRATED	600	900	300	46.787	300	46.737	48.331	1.594	EDCM 601	
83	SINGLE SIDE ENTRY PIT GRATED	600	900			300	46.873	48.331	1.458	EDCM 601	

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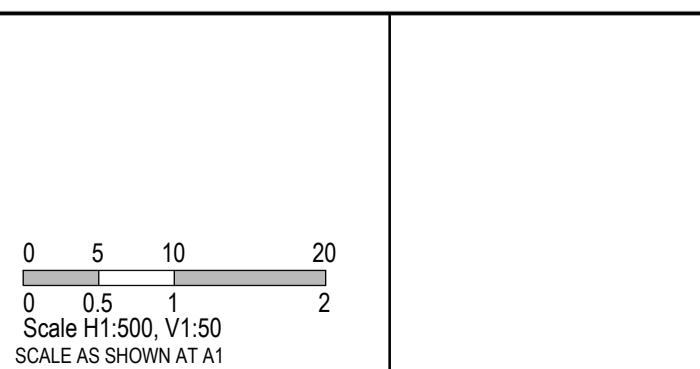
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Quality Management - ISO 9001
 OHS Management - AS/NZS 1801
 Environmental Management - ISO 14001

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TITLE	NAME
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DESIGNER	J.Chen
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



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GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Pit Schedule

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-14	SHEET No. 14 of 17	REVISION 3
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- NOTES**
- 90° BENDS TO HAVE CENTRELINE MARKING WITH RRPMS AT MAX 6m SPACING.
 - RRPMS TO BE IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOL 2.
 - ALL LINEMARKING & SIGNAGE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742.

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

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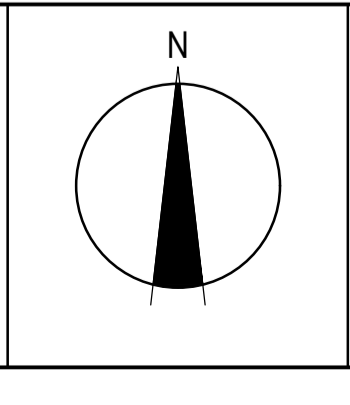
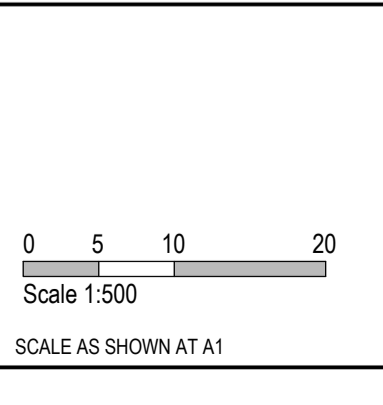
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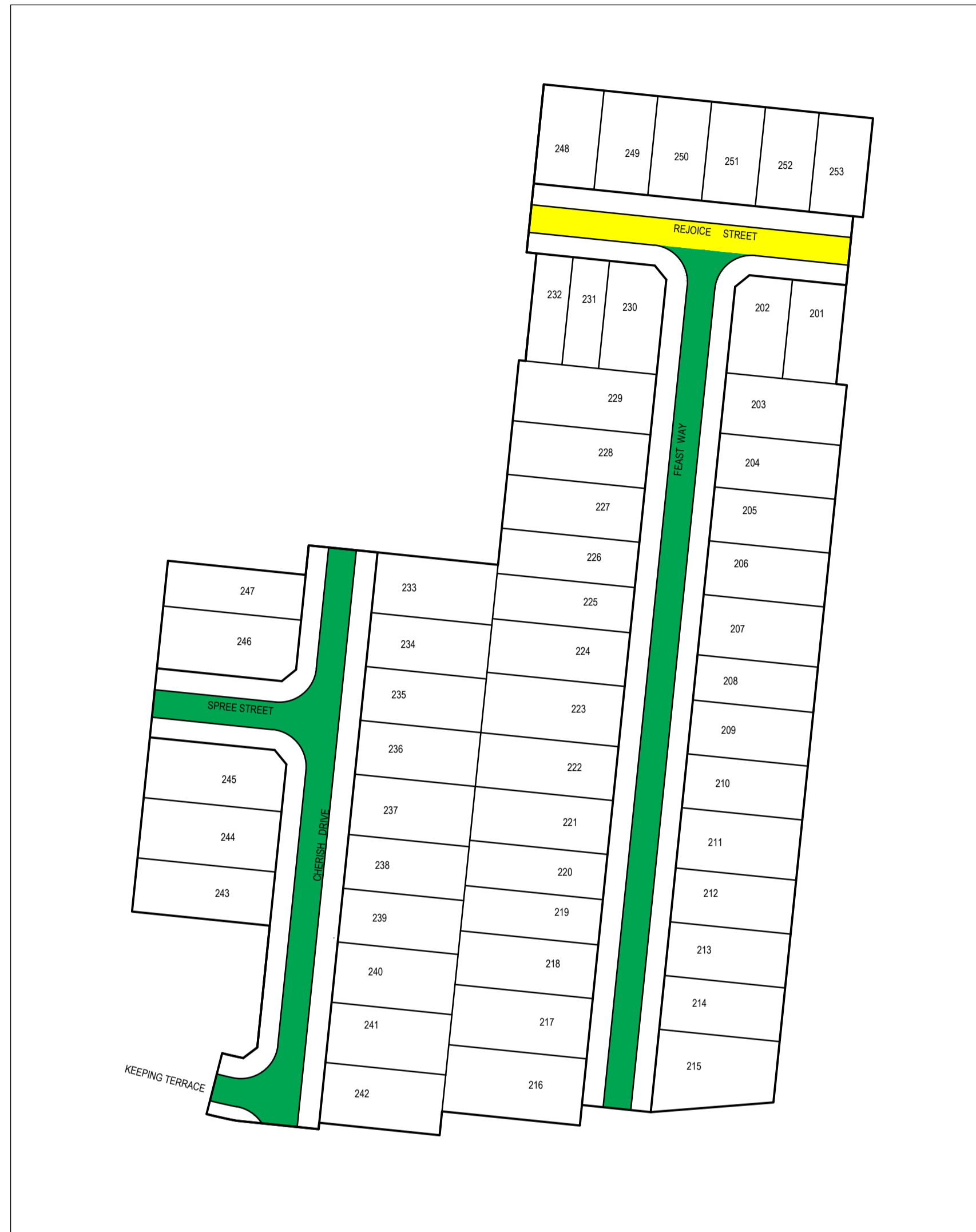


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GROWLAND

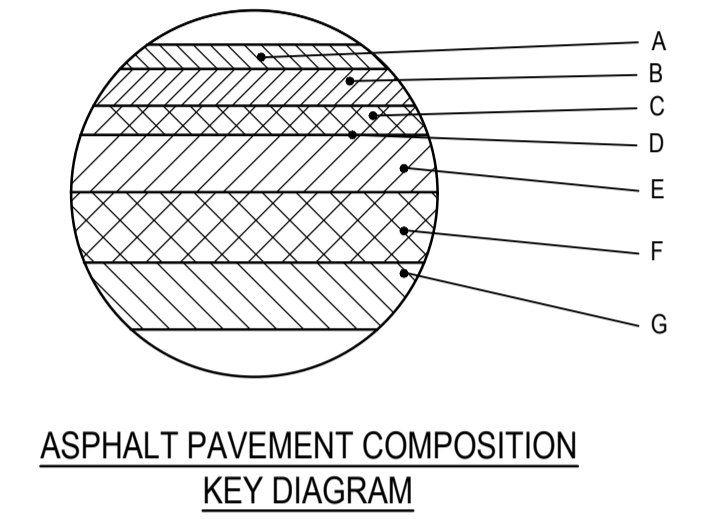
Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Signage & Linemarking Plan

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-15	SHEET No. 15 of 17	REVISION 1
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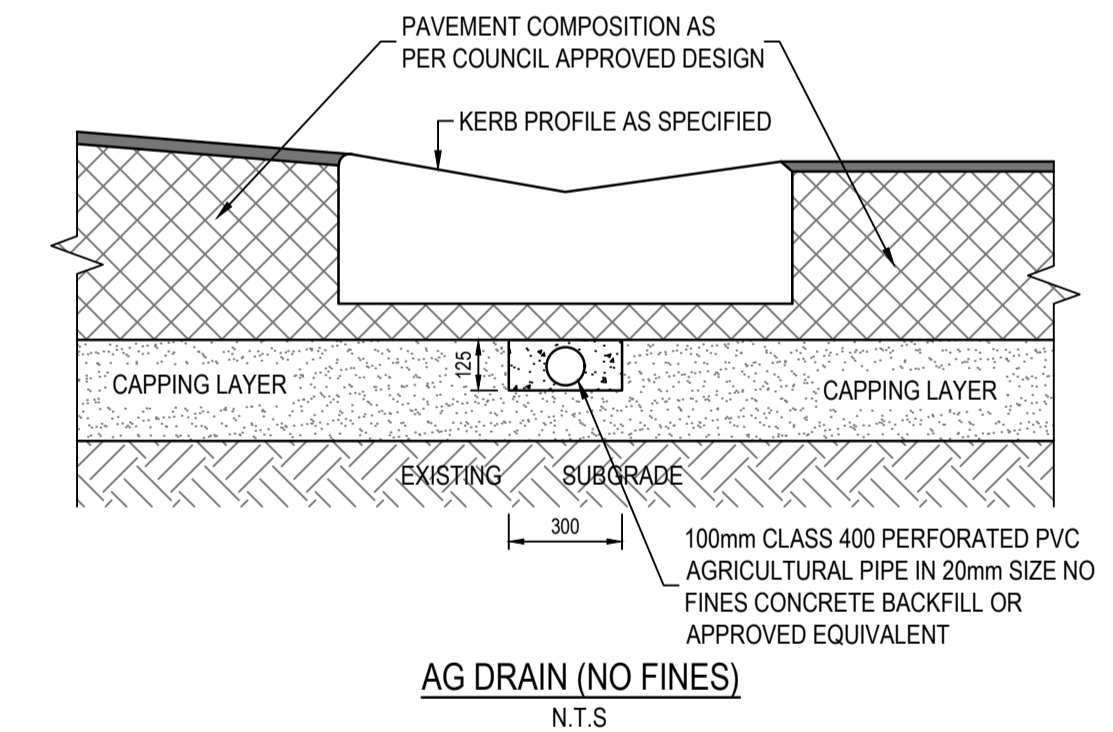
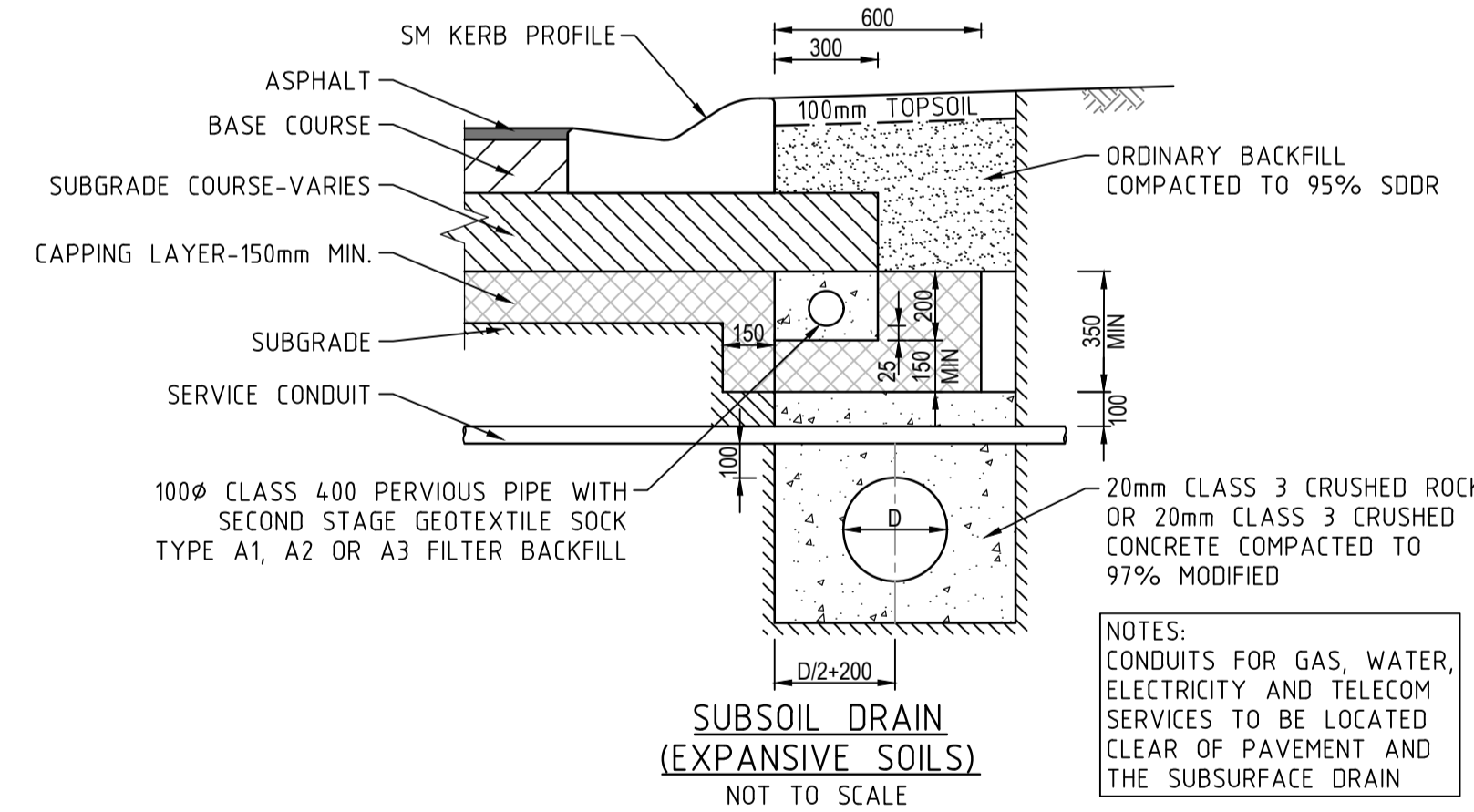


720mm REJOICE STREET (TYPE B)		
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	40	SIZE 14 TYPE N ASPHALT, CLASS 320 BINDER
B BASE COURSE	40	SIZE 14 TYPE HP ASPHALT, CLASS A10E BINDER
C SEALING LAYER	10	SIZE 10 SAMI S18RF
D BONDING LAYER		BITUMINOUS PRIME OR PRIMERSEAL
E BASE	110	SIZE 20 CLASS 2 FCR, COMPACTED DEPTH, COMPACTED TO A MEAN DENSITY RATIO OF 98% (MODIFIED) MAXIMUM DRY DENSITY AS1289.5.2.1
F SUBBASE	270	SIZE 20 CLASS 3 FCR, COMPACTED DEPTH (PLACED IN TWO LAYERS), 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 $k \leq 1 \times 10^{-7}$ m/s SUBGRADE (DESIGN CBR 2%), COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289.5.1.1

625mm CHERISH DRIVE & FEAST WAY 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 $k \leq 1 \times 10^{-7}$ m/s SUBGRADE (DESIGN CBR 2%), COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289.5.1.1



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.



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 DOHERTHYS ROAD, TARNEIT DOCUMENT 1008778, 1000 1/3 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.

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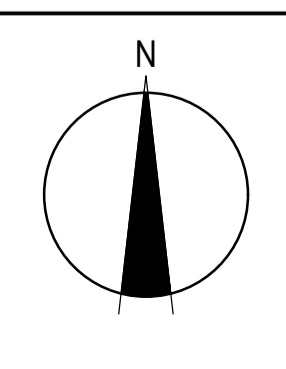
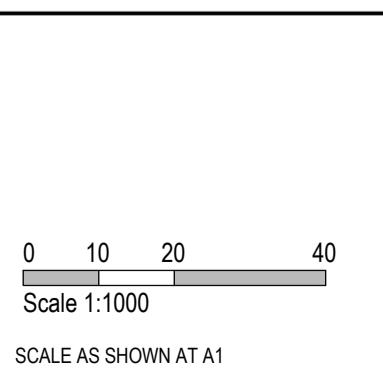
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Quality Management - ISO 9001
Site Management - AS/NZS 1801
Environmental Management - ISO 14001

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GROWLAND

Marigold - Stage 2
Wyndham City Council
Road and Drainage
Pavement Details

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-16	SHEET No. 16 of 17	REVISION 1
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Safety in Design

Project Name: Marigold Stage 02		Design Package: 2360E-02		Date: 08.11.2018											
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"				
			Road Furniture / Roadside features												
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		
			Drainage												
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		
			Sewer												
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		
			Electricity												
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		
			Telstra												
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		
			Water												
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		
			Gas												
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		

AS CONSTRUCTED PLANS

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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REFERENCE No. 1	
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SCALE AS SHOWN AT A1

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GROWLAND

Marigold - Stage 2
 Wyndham City Council
 Road and Drainage
 Safety In Design

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-02-85	SHEET No. 17 of 17	REVISION 1
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