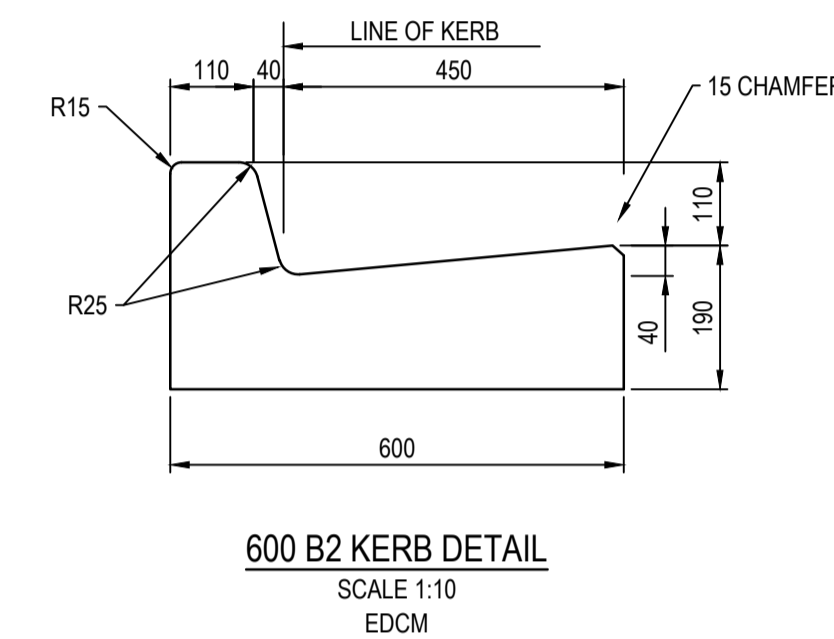
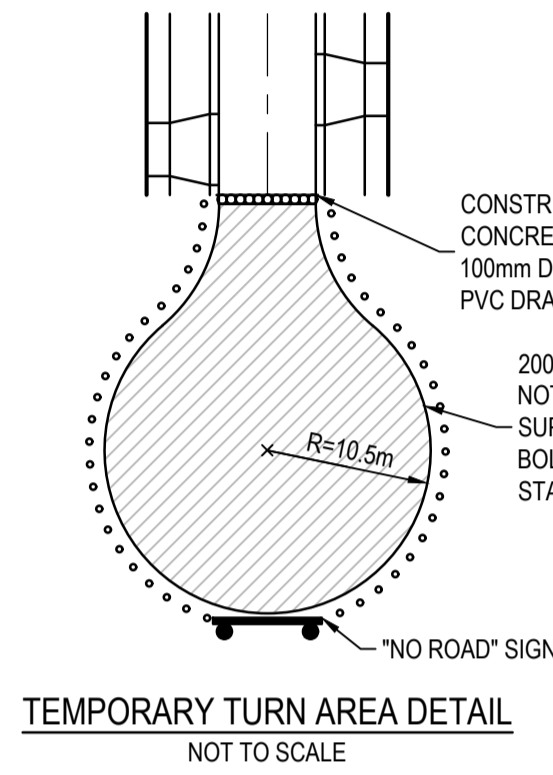
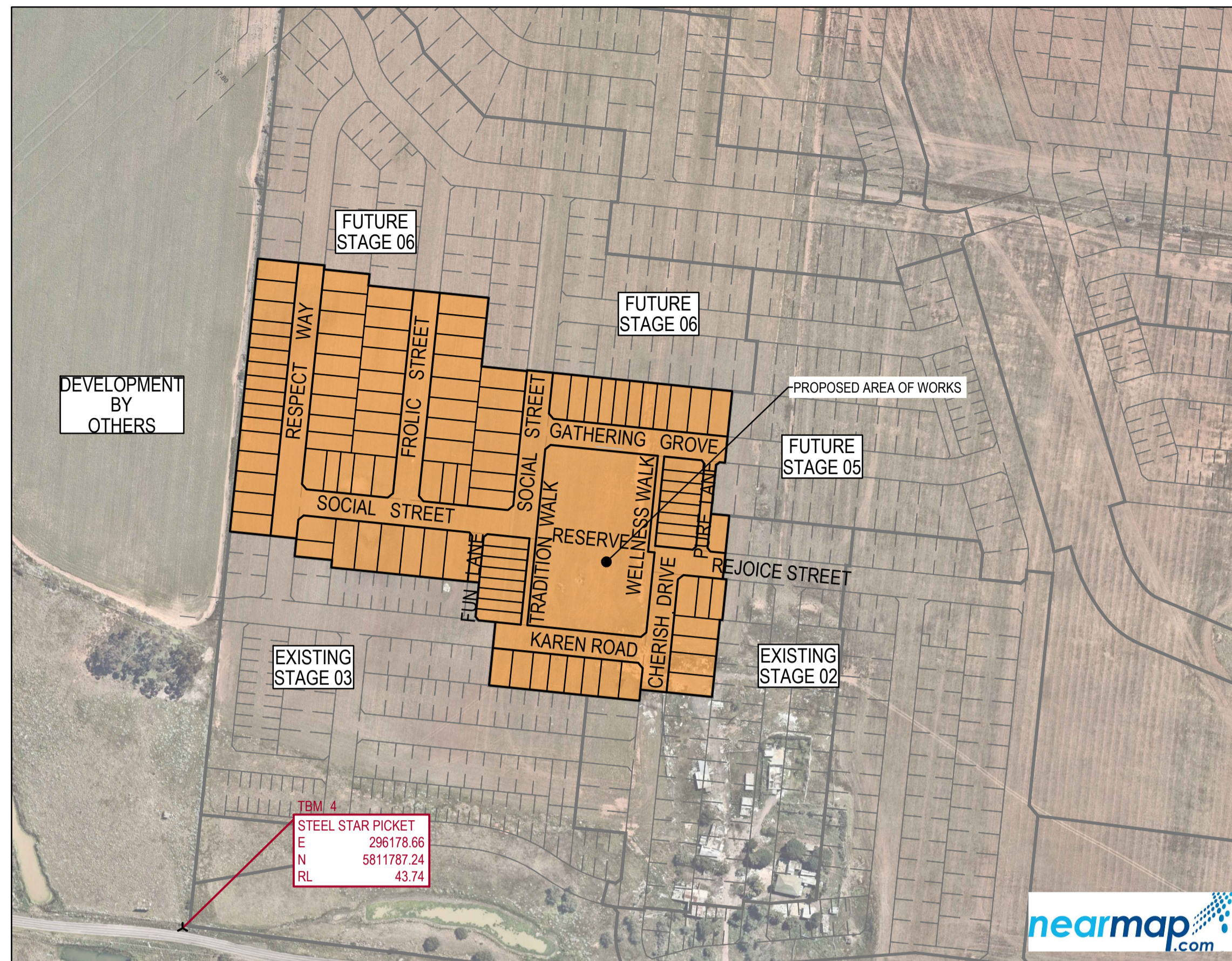
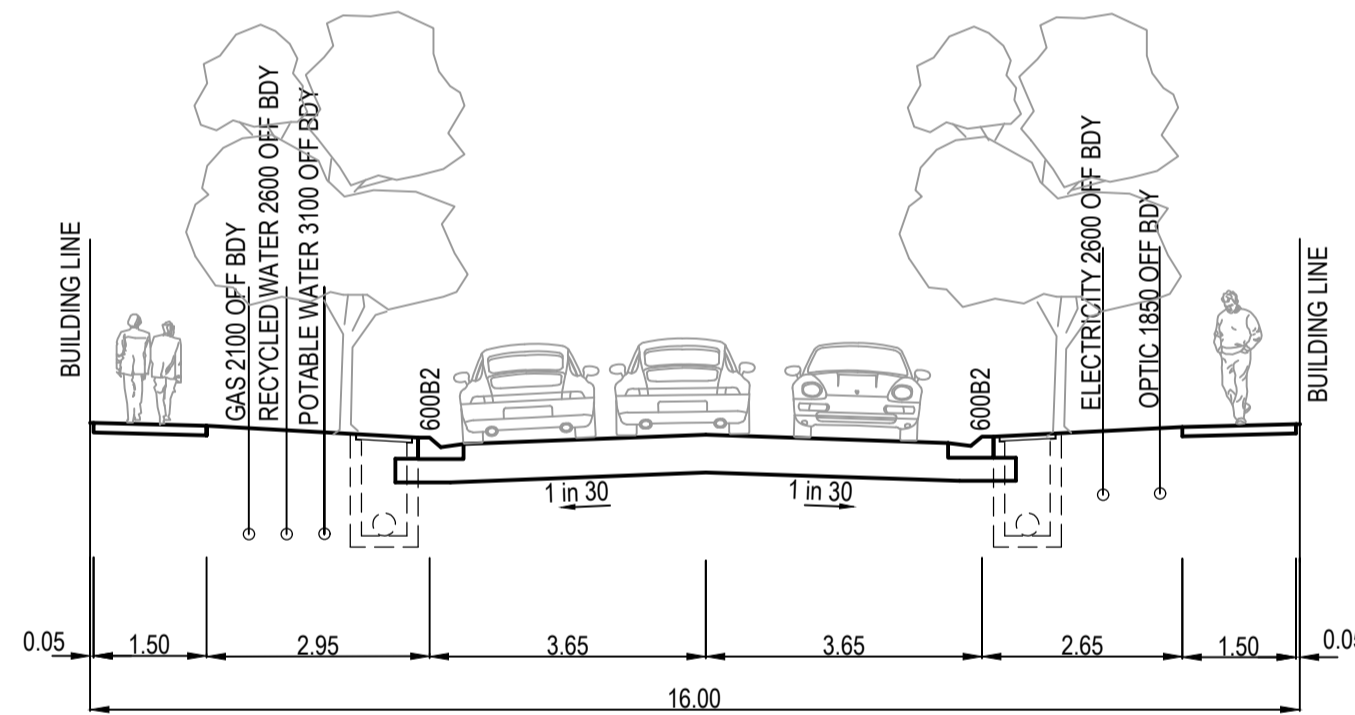


Marigold Stage 4

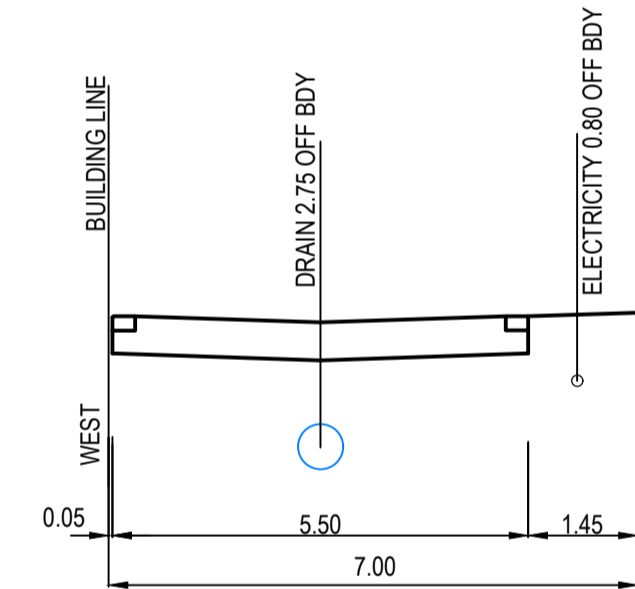


Drawing Index

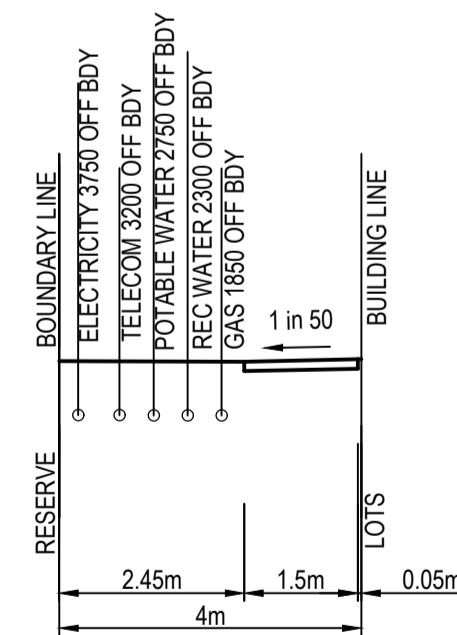
- 2360E-04-01 Cover Plan
- 2360E-04-02 Layout Plan - 1
- 2360E-04-03 Layout Plan - 2
- 2360E-04-04 Intersection Detail Plan - 1
- 2360E-04-05 Intersection Detail Plan - 2
- 2360E-04-06 Intersection Detail Plan - 3
- 2360E-04-07 Longitudinal Sections - 1 Respect Way & Frolic Street
- 2360E-04-08 Longitudinal Sections - 2 Social Street & Gathering Grove
- 2360E-04-09 Longitudinal Sections - 3 Karen Road & Cherish Drive/Rejoice Street
- 2360E-04-10 Longitudinal Sections - 4 Pure Lane & Fun Lane
- 2360E-04-11 Cross Sections: Respect Way
- 2360E-04-12 Cross Sections: Frolic Street
- 2360E-04-13 Cross Sections: Social Street Ch 11.80 - Ch 188.85
- 2360E-04-14 Cross Sections: Social Street Ch 212.46 - Ch 236.26 & Fun Lane
- 2360E-04-15 Cross Sections: Gathering Grove
- 2360E-04-16 Cross Sections: Karen Street & Pure Lane
- 2360E-04-17 Cross Sections: Cherish Drive & Rejoice Street
- 2360E-04-18 Drainage Longitudinal Sections - 1
- 2360E-04-19 Drainage Longitudinal Sections - 2
- 2360E-04-20 Drainage Longitudinal Sections - 3
- 2360E-04-21 Drainage Longitudinal Sections - 4
- 2360E-04-22 Drainage Longitudinal Sections - 5
- 2360E-04-23 Drainage Longitudinal Sections - 6 & Pit Schedule
- 2360E-04-24 Signage & Linemarking Plan
- 2360E-04-25 Pavement Details
- 2360E-04-26 Concrete Jointing Plans
- 2360E-04-85 Safety in Design



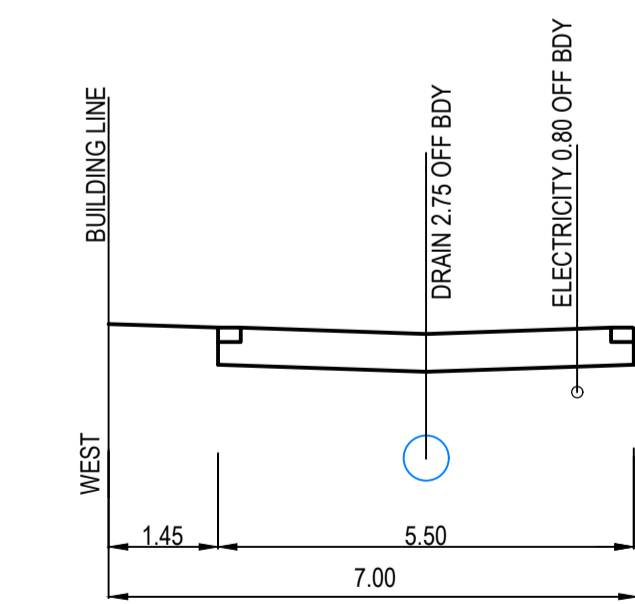
16m ROAD RESERVE
RESPECT WAY, SOCIAL STREET, FROLIC STREET, GATHERING GROVE, CHERISH DRIVE, REJOICE STREET AND KAREN ROAD



7.0m ROAD RESERVE
FUN LANE



4.0m ROAD RESERVE
WELLNESS WALK & TRADITION WALK



7.0m ROAD RESERVE
PURE LANE

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

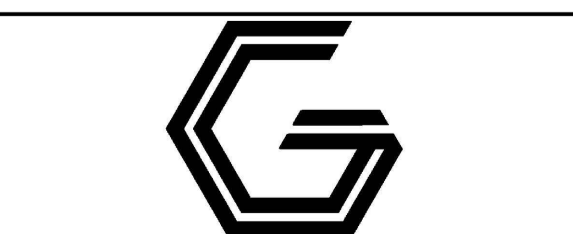
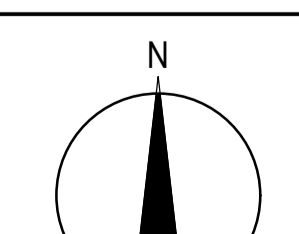
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WARNING
SAFETY MEASURES REQUIRED
Please note there are risks attached to the construction of this project, and any ongoing maintenance of structures. Consider the safety of all. For potential risks, consequences and controls refer to Safety in Design Risk Register SID P4.E6. 2360E-04-85
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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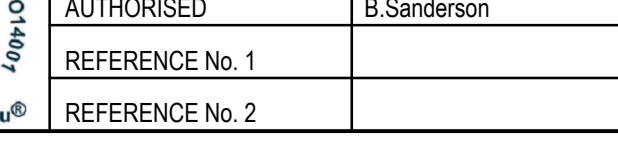
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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

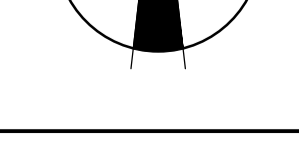


Marigold - Stage 4
Wyndham City Council
Road and Drainage
Cover Plan

SUBJECT TO APPROVAL



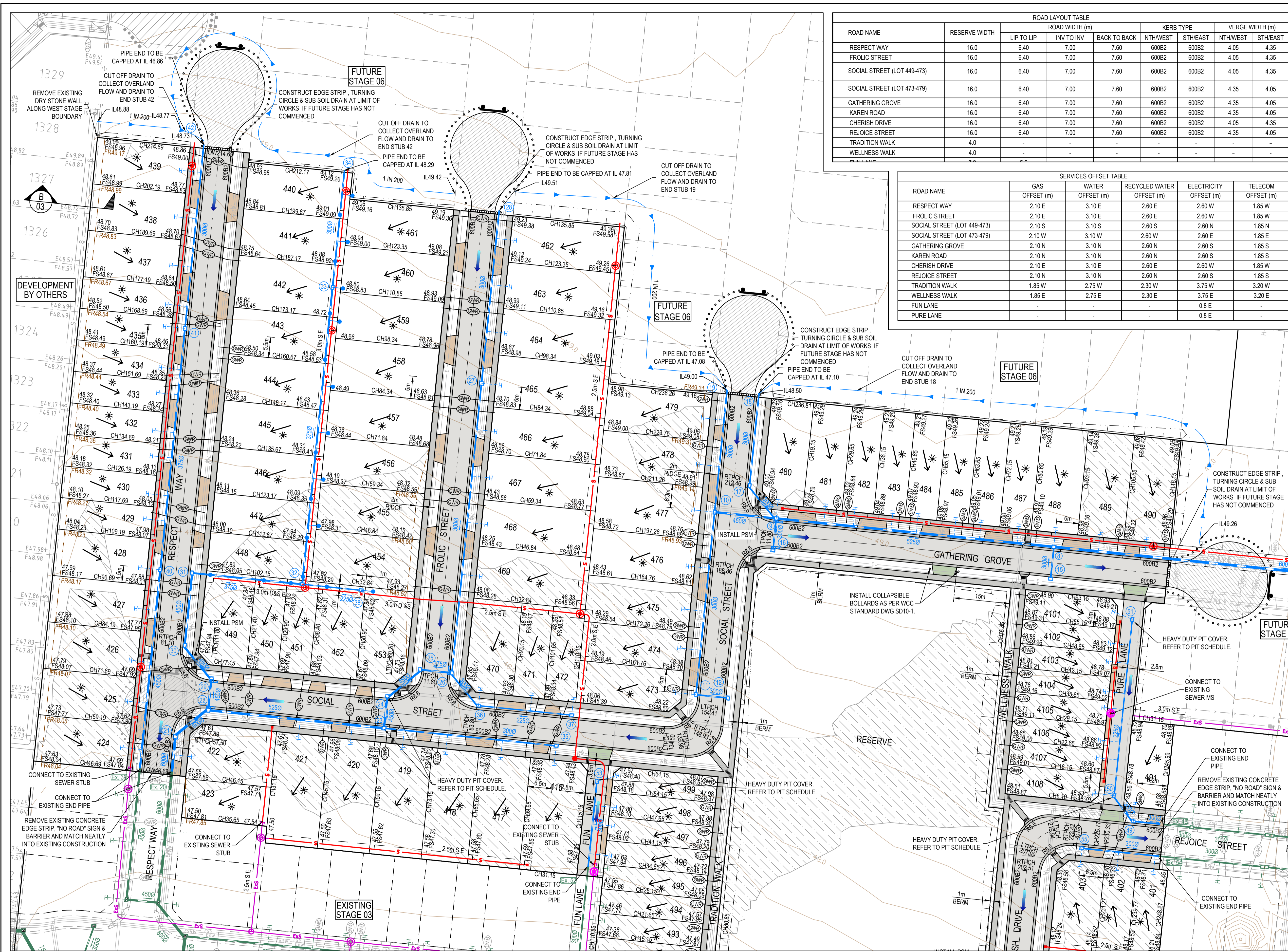
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Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

MELBOURNE REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-04-01	01 of 27	C



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	
RESPECT WAY	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35	
FROLIC STREET	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35	
SOCIAL STREET (LOT 449-473)	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35	
SOCIAL STREET (LOT 473-479)	16.0	6.40	7.00	7.60	600B2	600B2	4.35	4.05	
GATHERING GROVE	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	
CHERISH DRIVE	16.0	6.40	7.00	7.60	600B2	600B2	4.05	4.35	
REJOICE STREET	16.0	6.40	7.00	7.60	600B2	600B2	4.35	4.05	
TRADITION WALK	4.0	-	-	-	-	-	-	-	
WELLNESS WALK	4.0	-	-	-	-	-	-	-	

ROAD NAME	SERVICES OFFSET TABLE				
	GAS OFFSET (m)	WATER OFFSET (m)	RECYCLED WATER OFFSET (m)	ELECTRICITY OFFSET (m)	TELECOM OFFSET (m)
RESPECT WAY	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
FROLIC STREET	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
SOCIAL STREET (LOT 449-473)	2.10 S	3.10 S	2.60 S	2.60 N	1.85 N
SOCIAL STREET (LOT 473-479)	2.10 W	3.10 W	2.60 W	2.60 E	1.85 E
GATHERING GROVE	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
CHERISH DRIVE	2.10 E	3.10 E	2.60 E	2.60 W	1.85 W
REJOICE STREET	2.10 N	3.10 N	2.60 N	2.60 S	1.85 S
TRADITION WALK	1.85 W	2.75 W	2.30 W	3.75 W	3.20 W
WELLNESS WALK	1.85 E	2.75 E	2.30 E	3.75 E	3.20 E
FUN LANE	-	-	-	0.8 E	-
PURE LANE	-	-	-	0.8 E	-

LEGEND - LAYOUT PLAN	
	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

FOR CONTINUATION REFER SHEET 2360E-04-03

FOR CONTINUATION REFER SHEET 2360E-04-03

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SHJC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SHJC	BS
C	20.12.19	COUNCIL COMMENTS	SHJC	BS

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

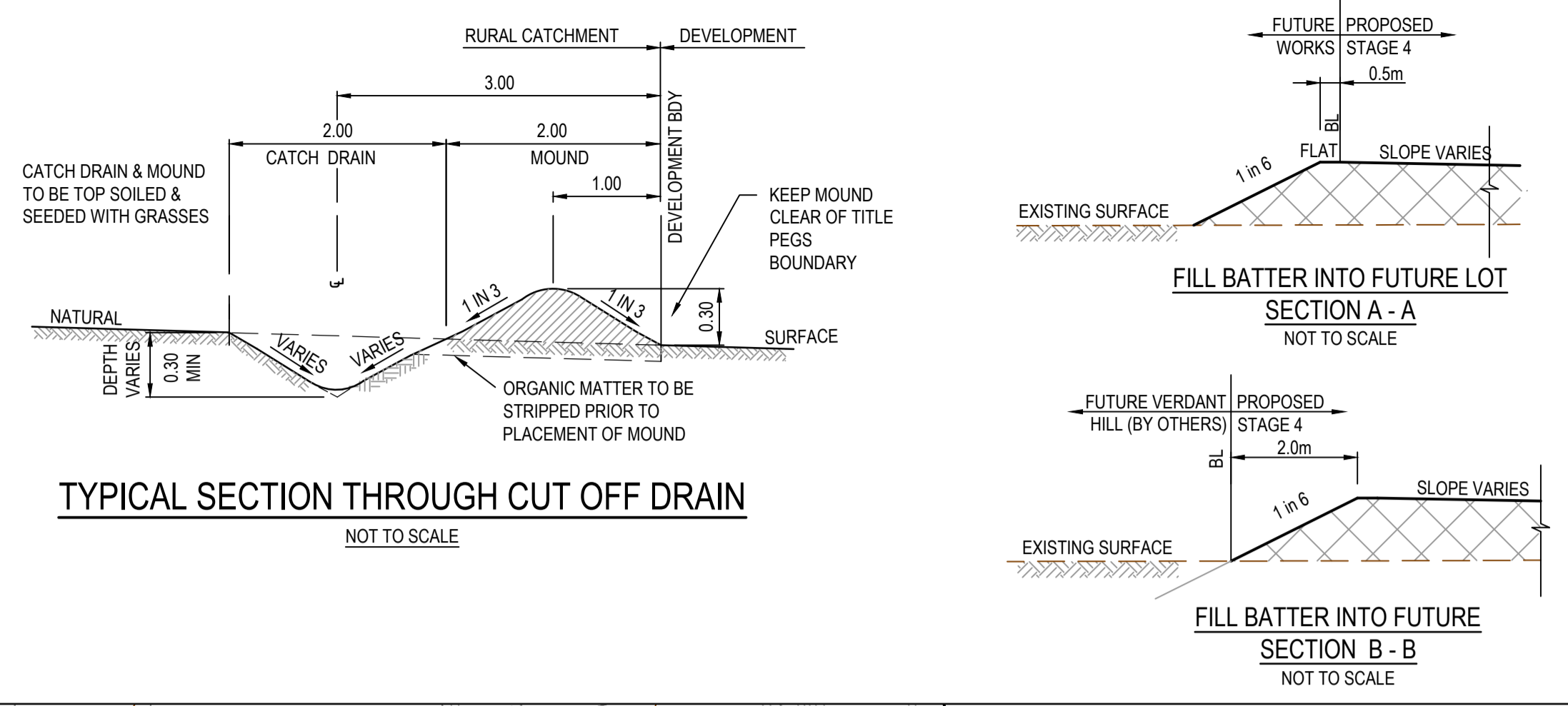
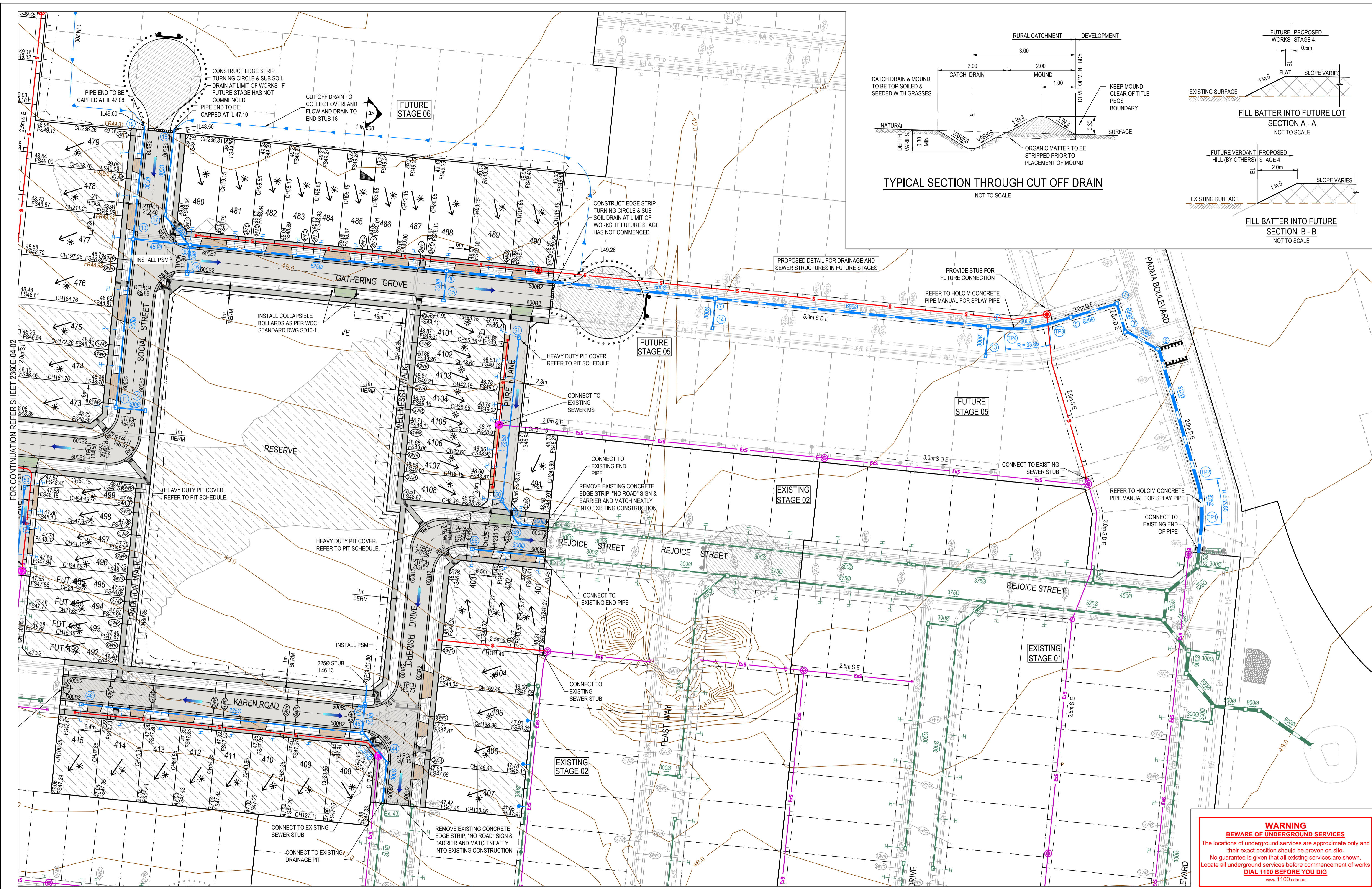
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ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

Marigold - Stage 4
Wyndham City Council
Road and Drainage
Layout Plan - 1

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-02	SHEET No. 02 of 27	REVISION C
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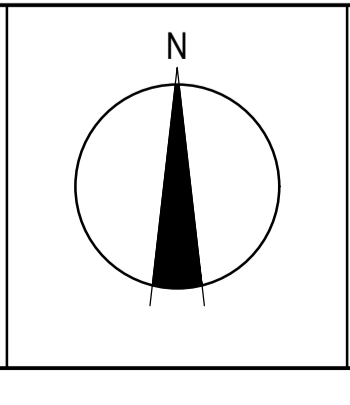
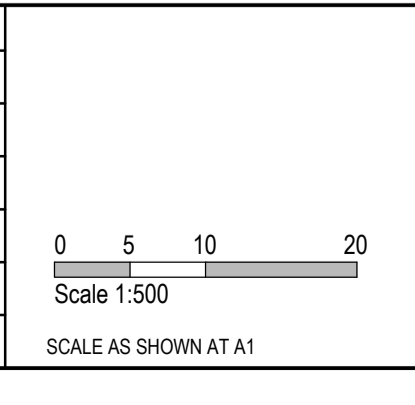
WARNING
BEWARE OF UNDERGROUND SERVICES
The locations of underground services are approximate only and their exact position should be proven on site.
No guarantee is given that all existing services are shown.
Locate all underground services before commencement of works
DIAL 1100 BEFORE YOU DIG
www.1100.com.au



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

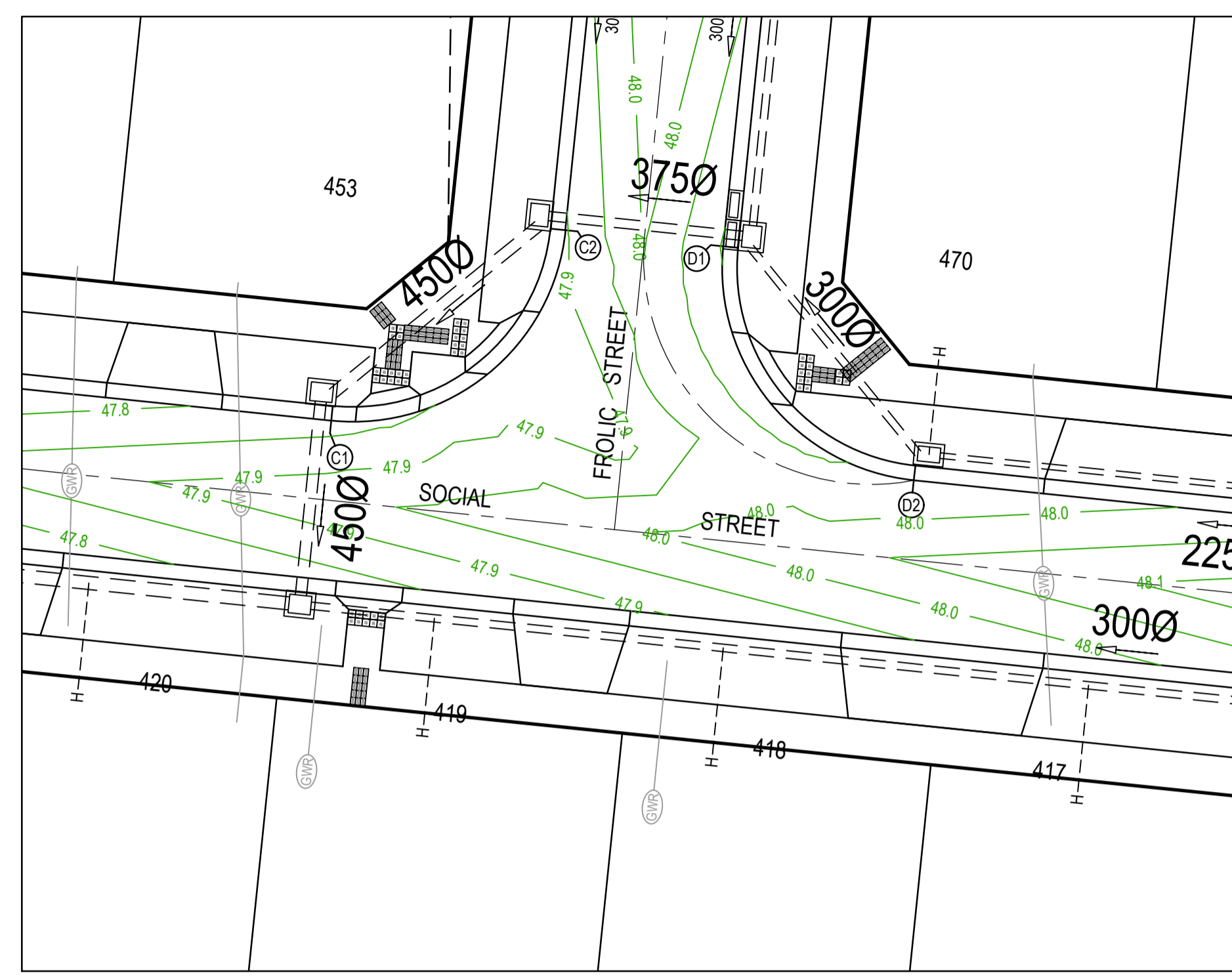
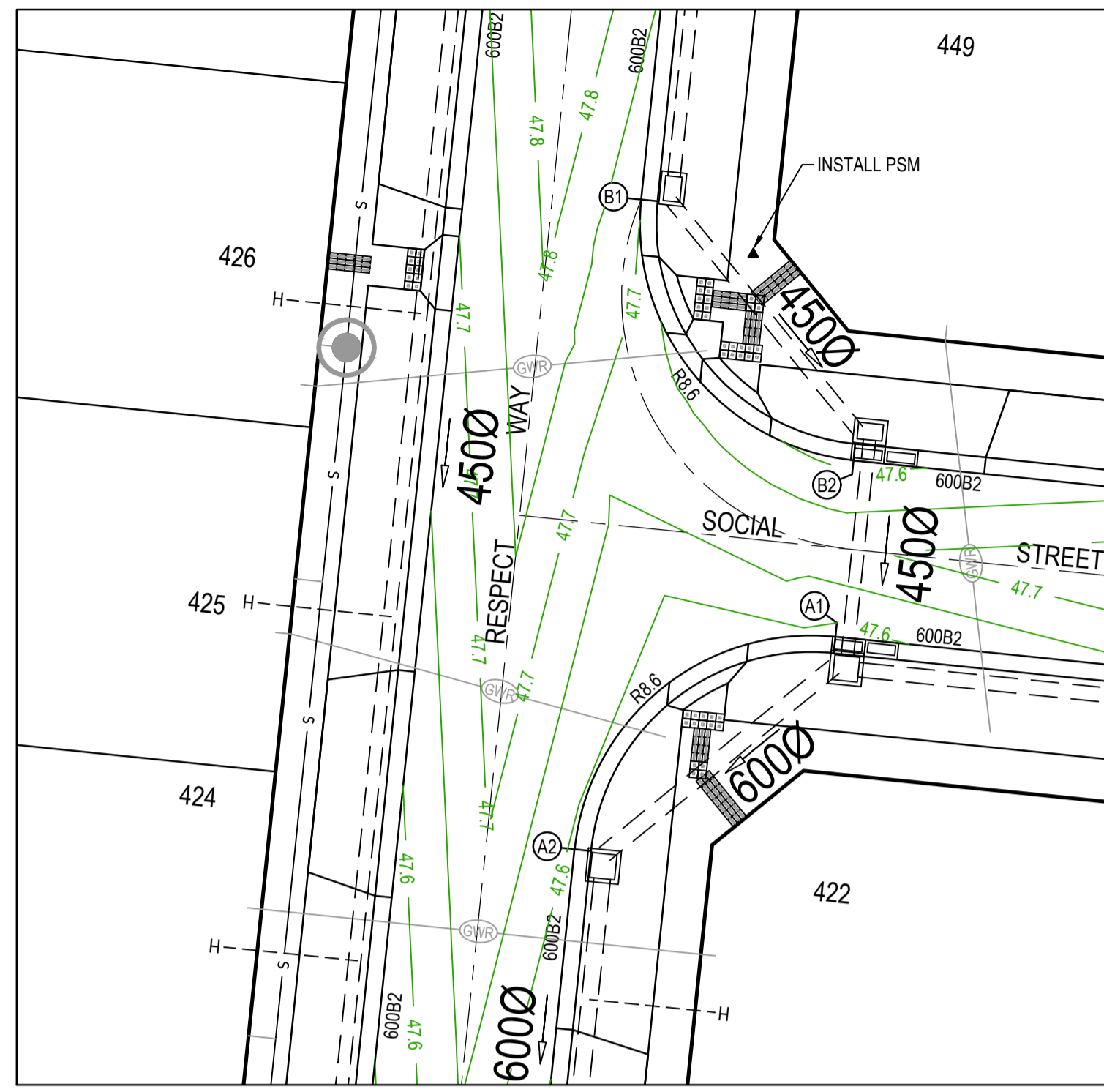


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 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

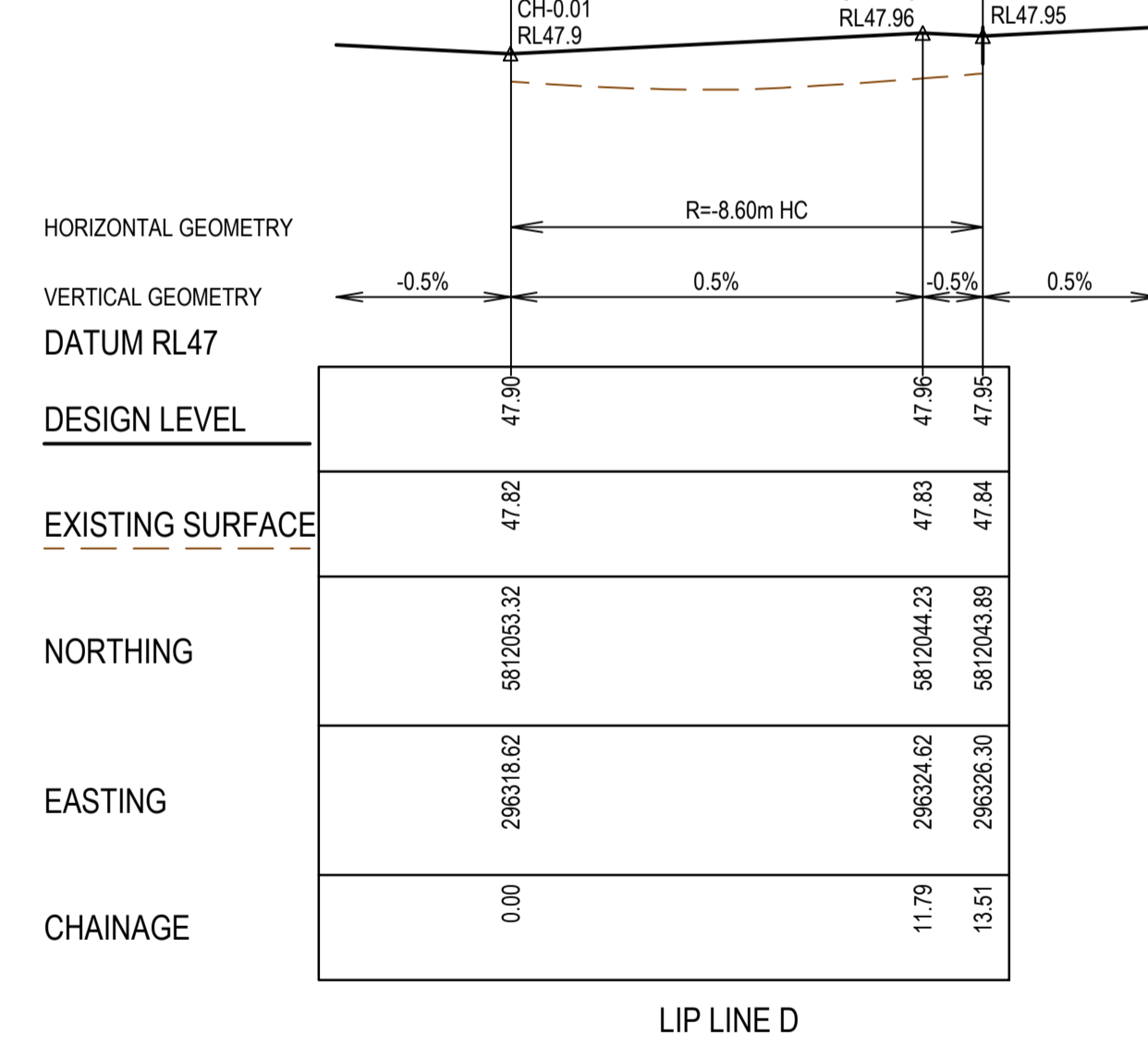
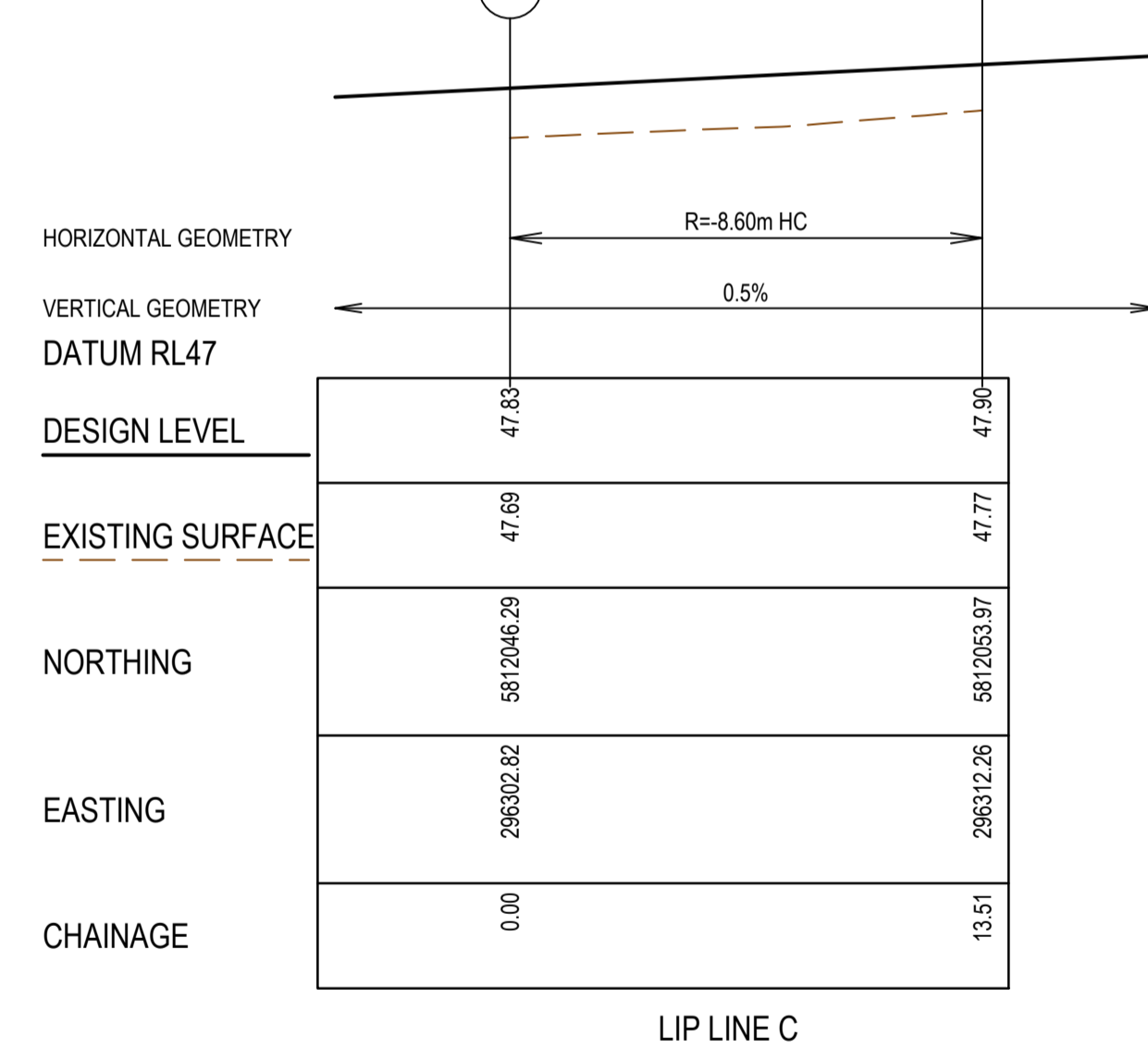
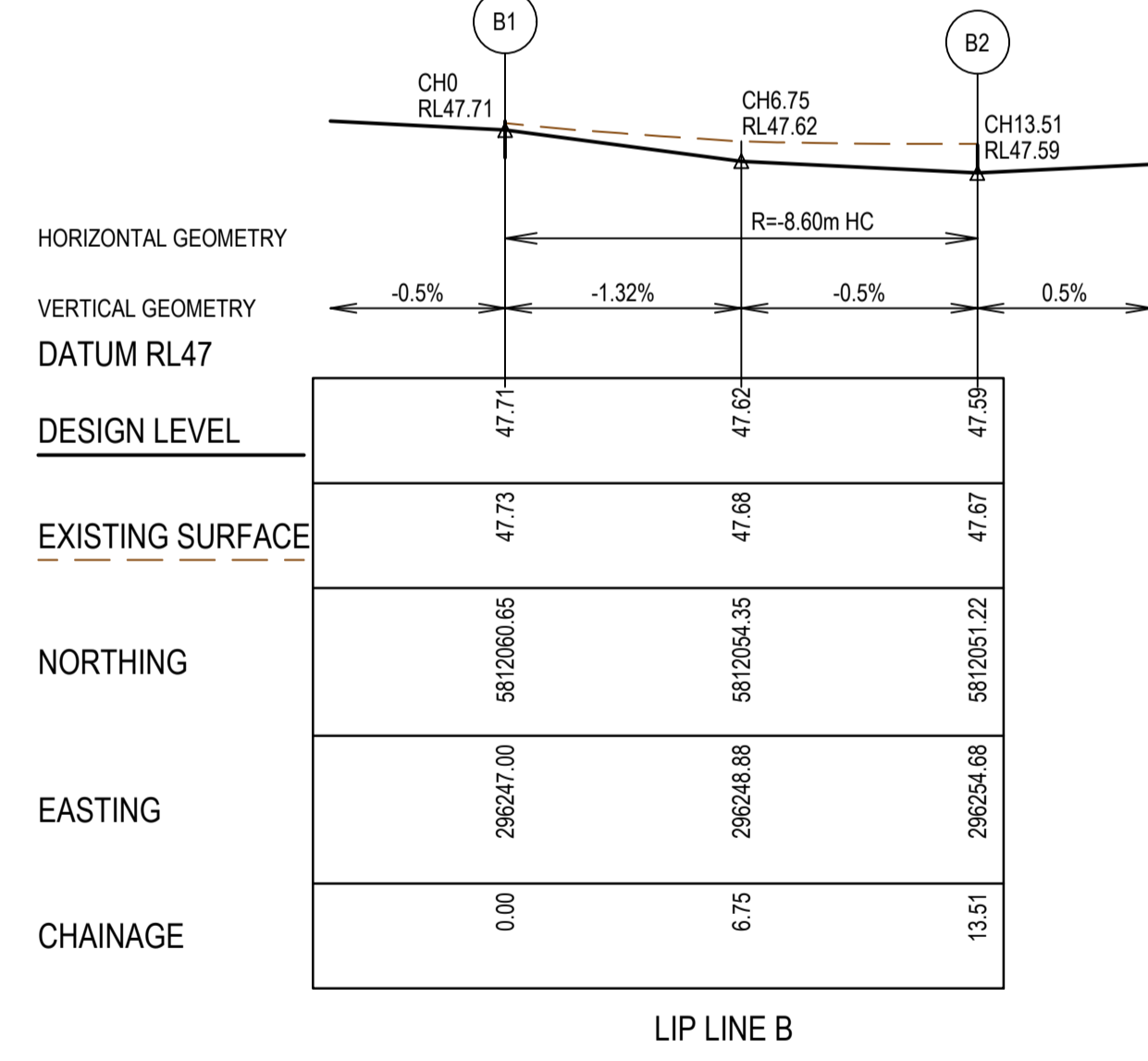
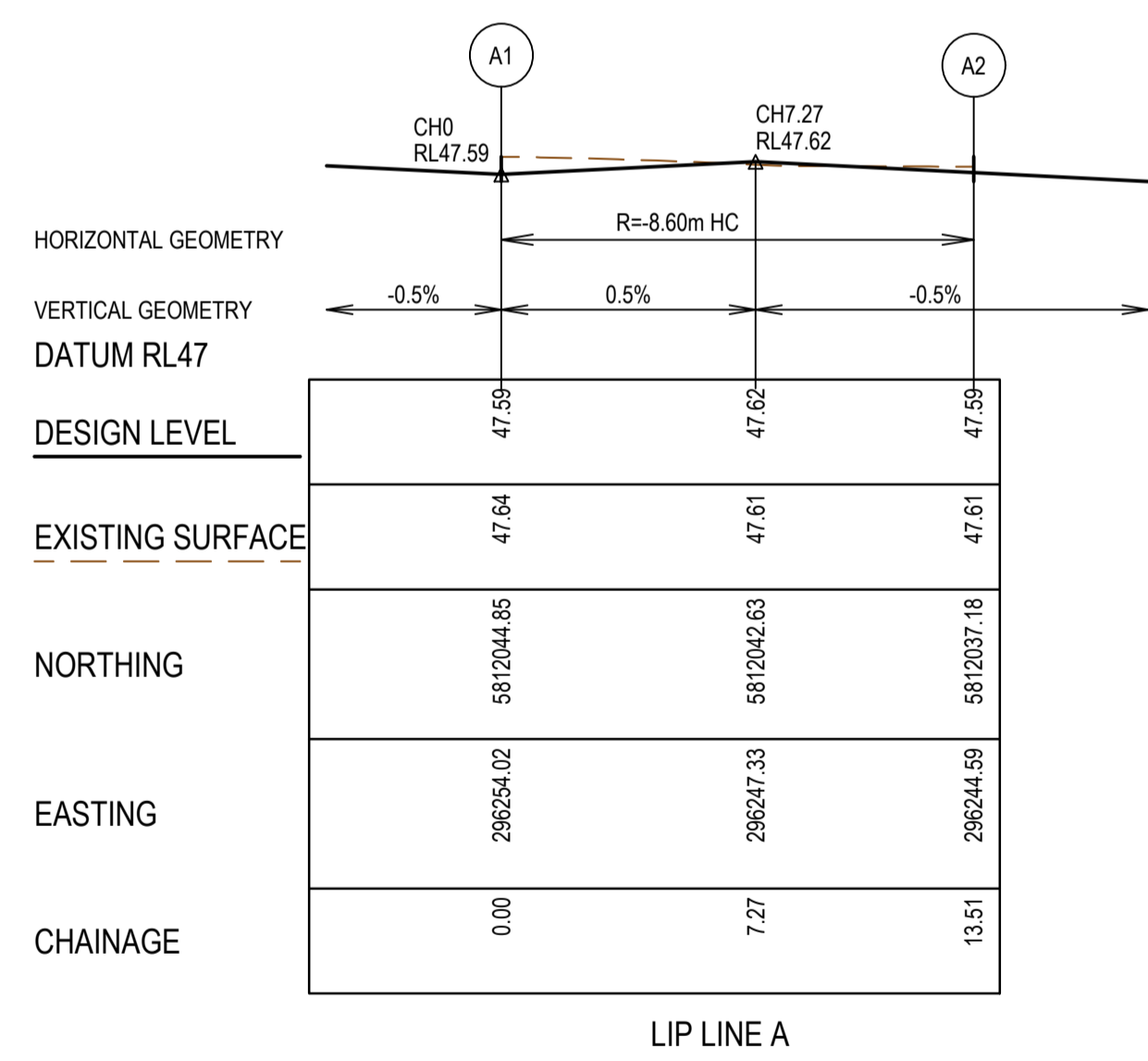
Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Layout Plan - 2

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-03	SHEET No. 03 of 27	REVISION C
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LEGEND - INTERSECTION DETAIL PLAN
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY

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

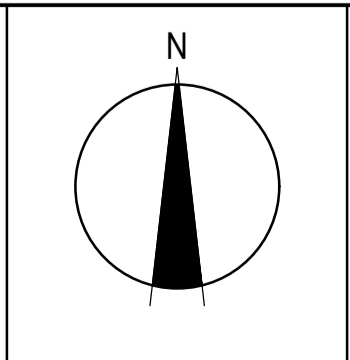
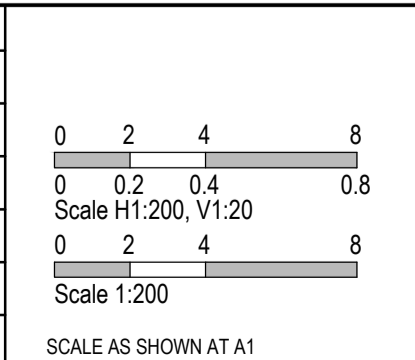


- NOTES**
- ALL VEHICLE CROSSINGS AND PRAM CROSSINGS TO BE MINIMUM OF 0.75m FROM PITS.
 - ALL PRAM CROSSINGS TO BE MINIMUM OF 2.0m FROM VEHICLE CROSSINGS.
 - VEHICLE EXCLUSION MEASURES BETWEEN ROAD RESERVE AND RESERVE TO FORM PART OF THE LANDSCAPE WORKS.
 - INDUSTRIAL DRIVEWAYS TO COUNCIL RESERVES TO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

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C	20.12.19	COUNCIL COMMENTS	SH/LC BS

SUBJECT TO APPROVAL

TITLE	NAME
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DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



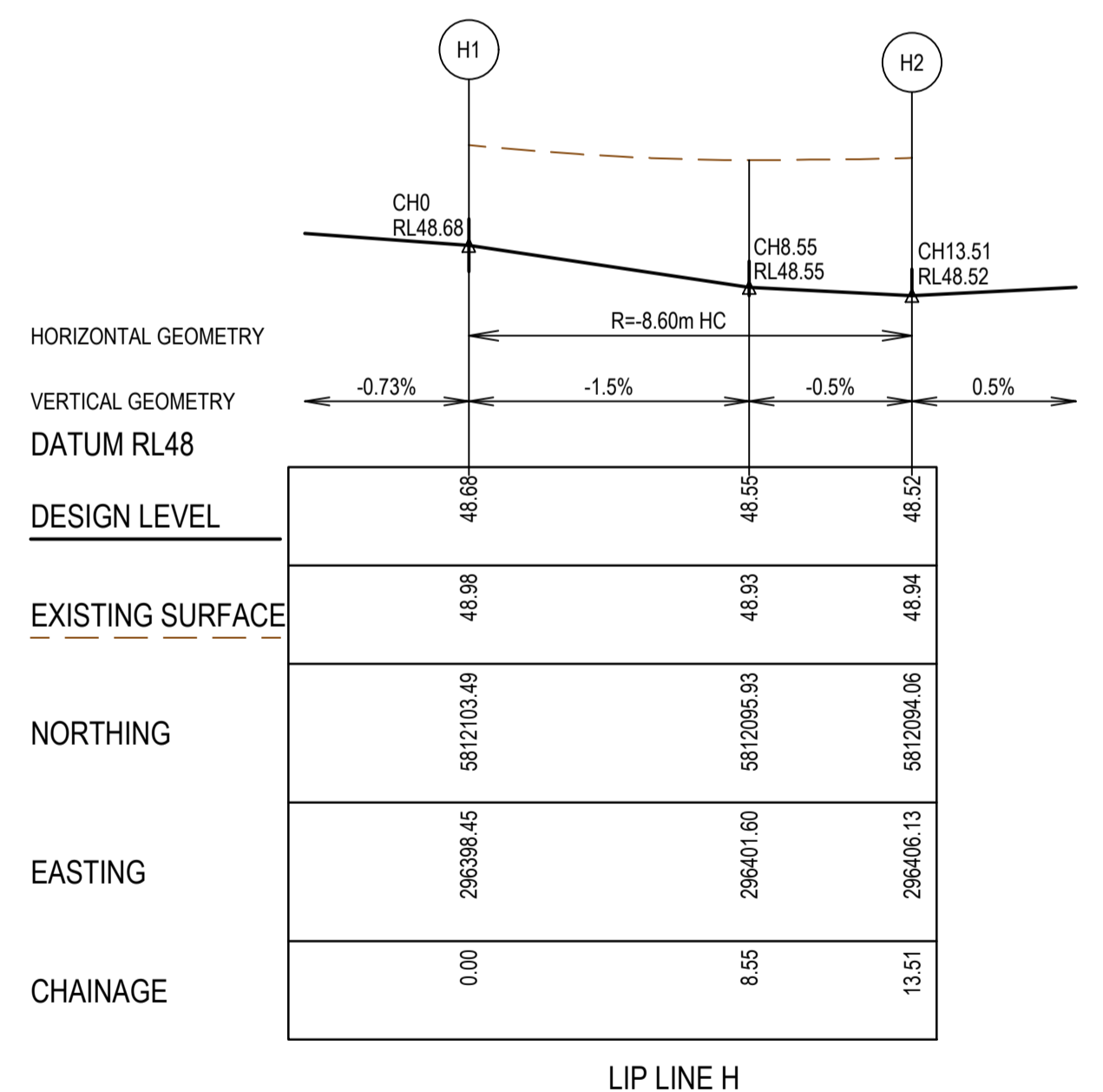
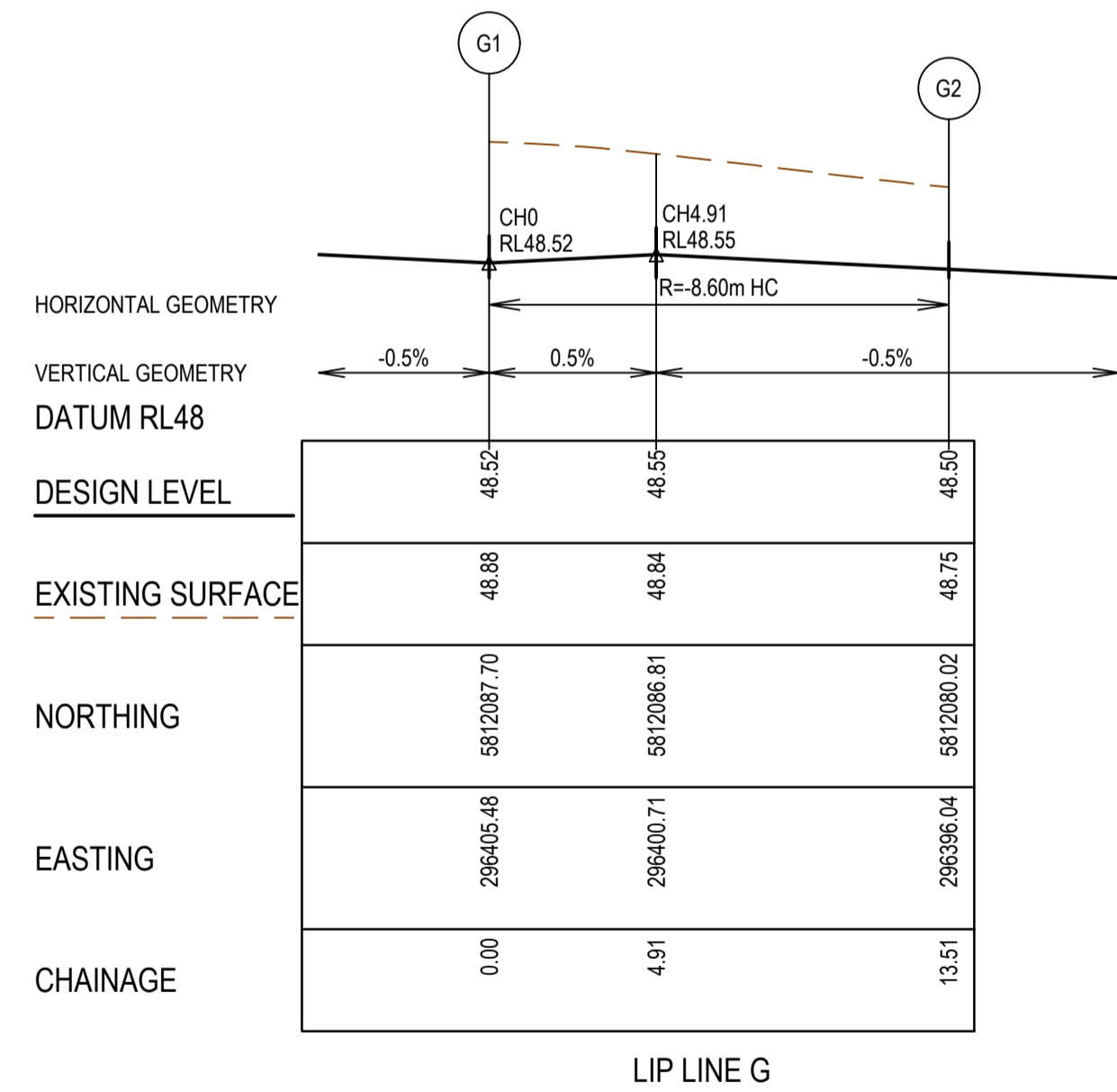
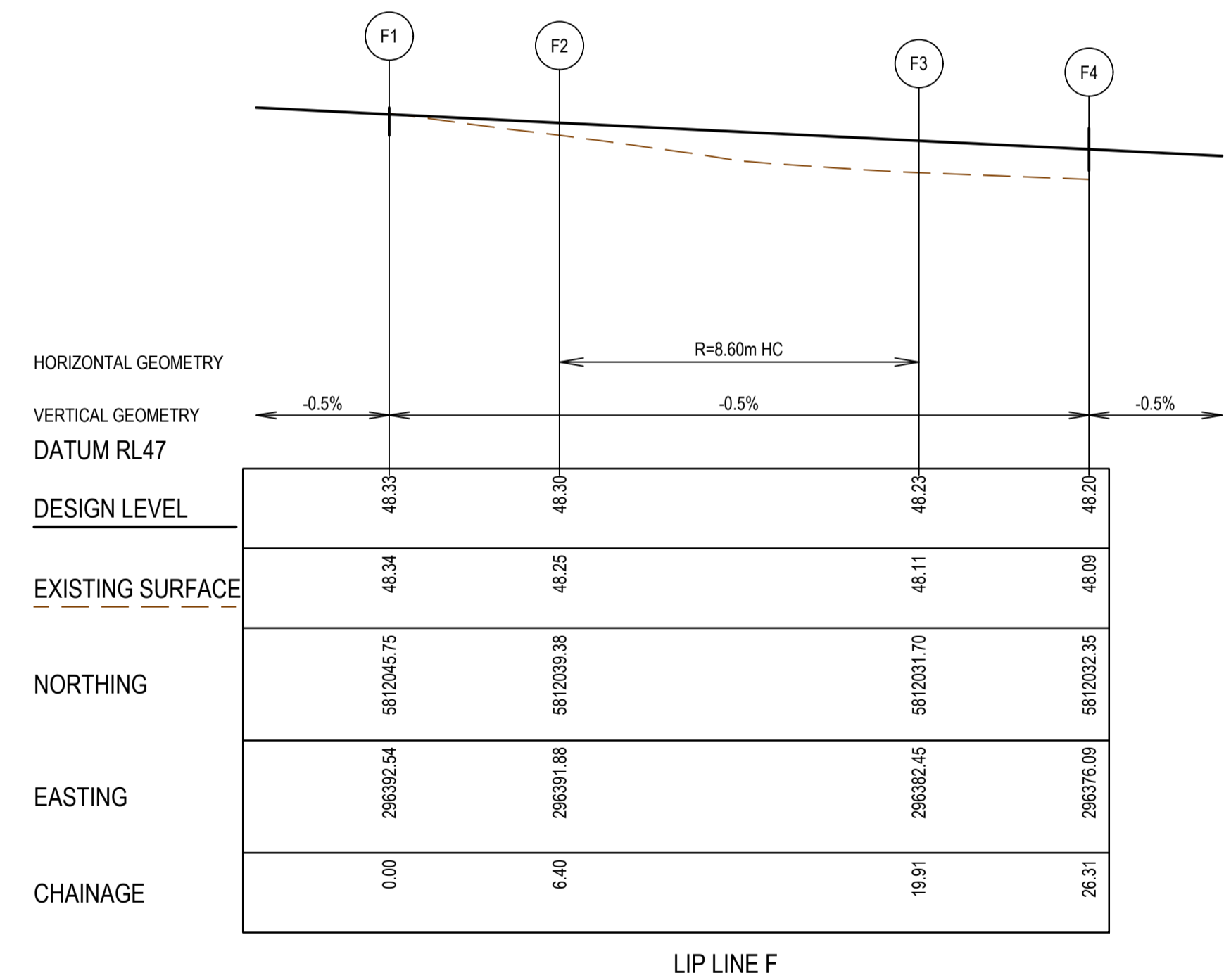
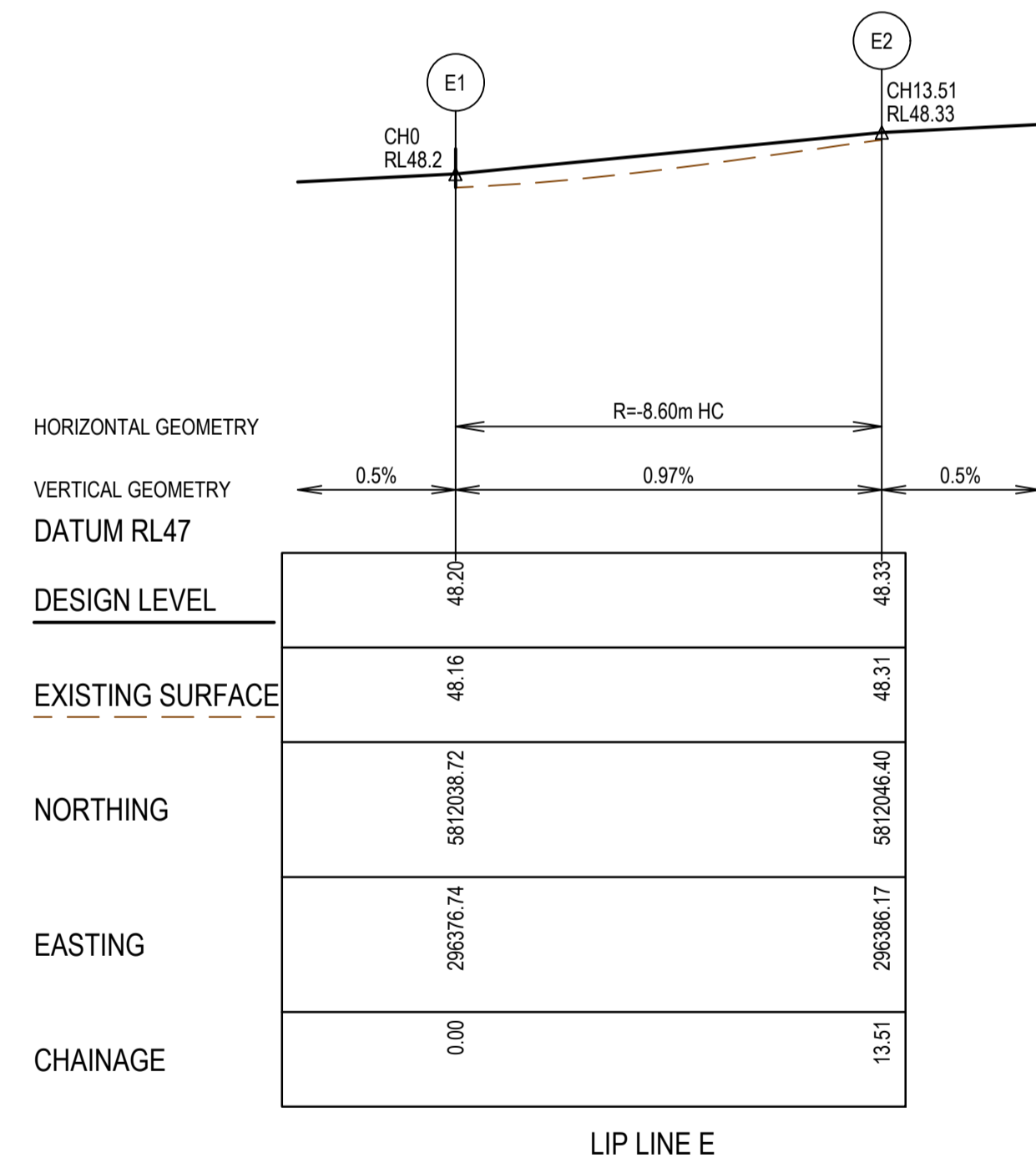
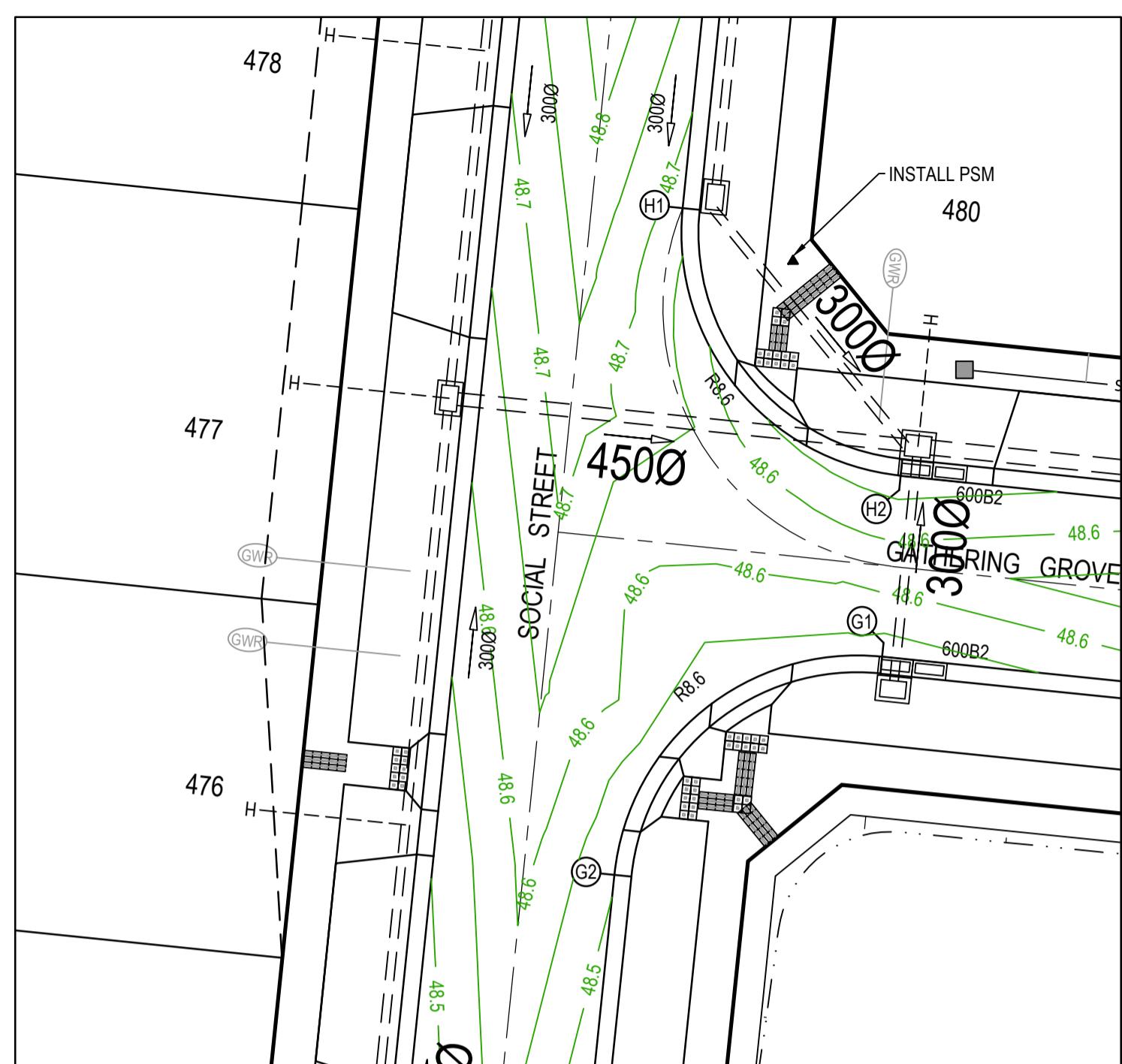
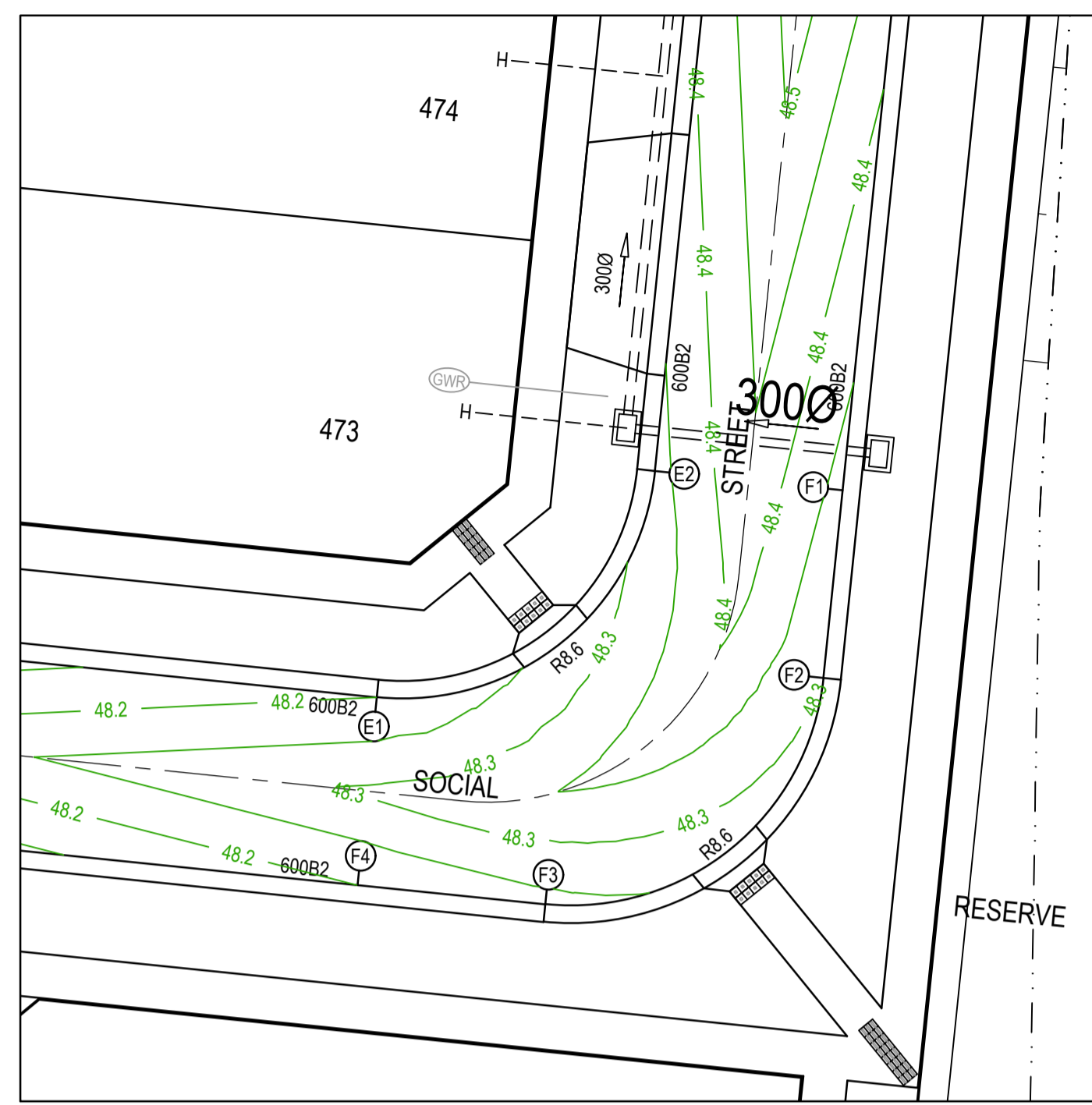
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ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Marigold - Stage 4 Wyndham City Council Road and Drainage Intersection Detail Plan - 1		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-04	SHEET No. 04 of 27	REVISION C
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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 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

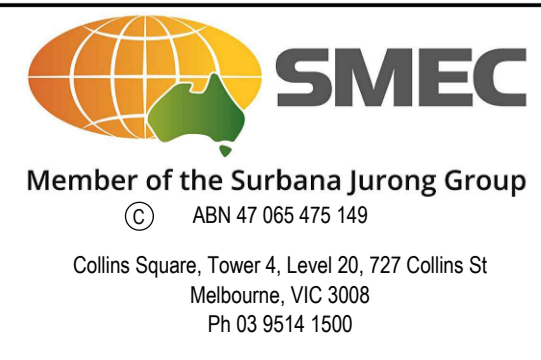
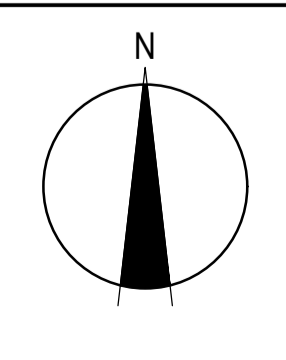
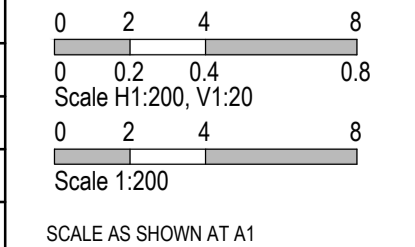


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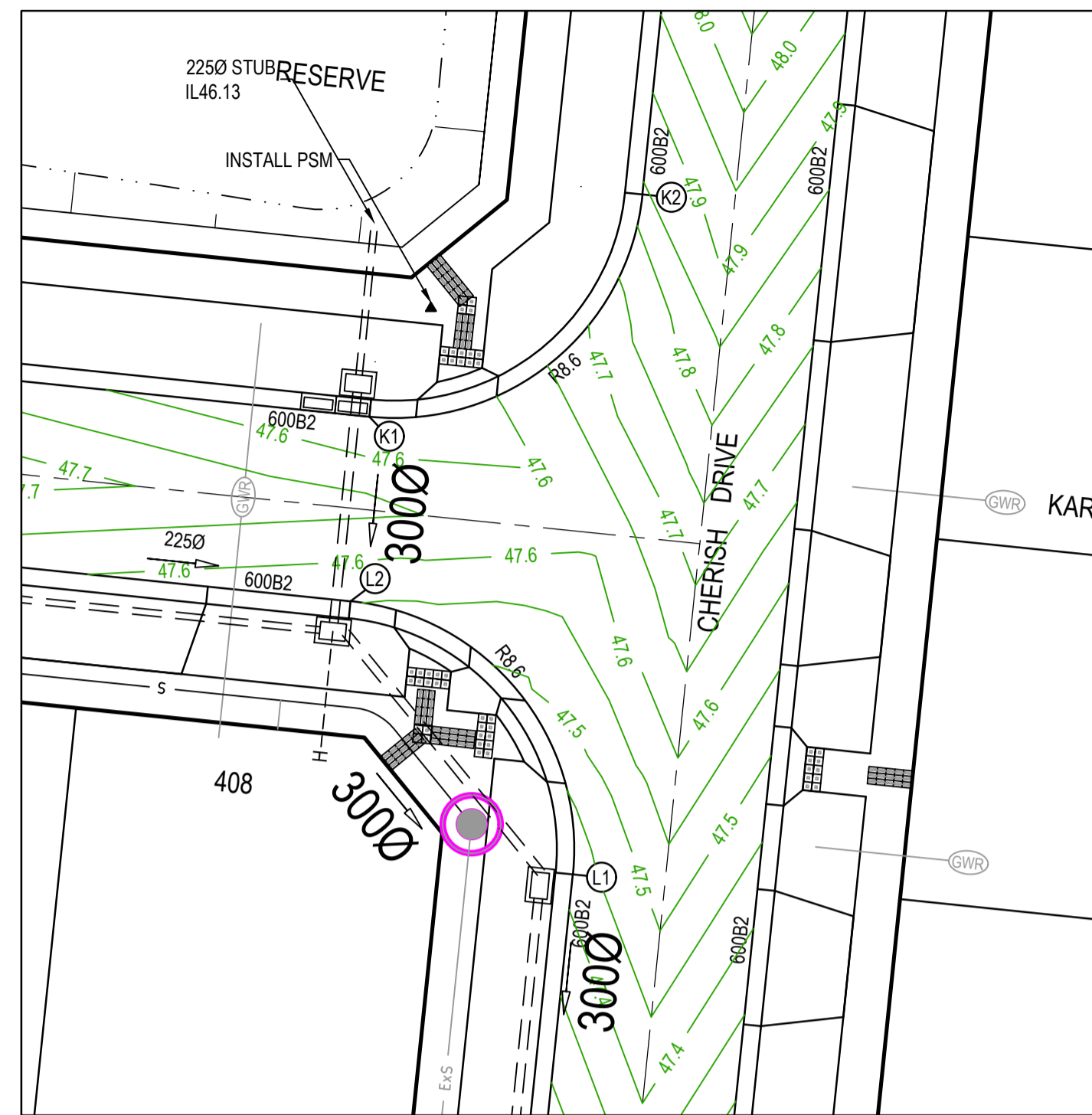
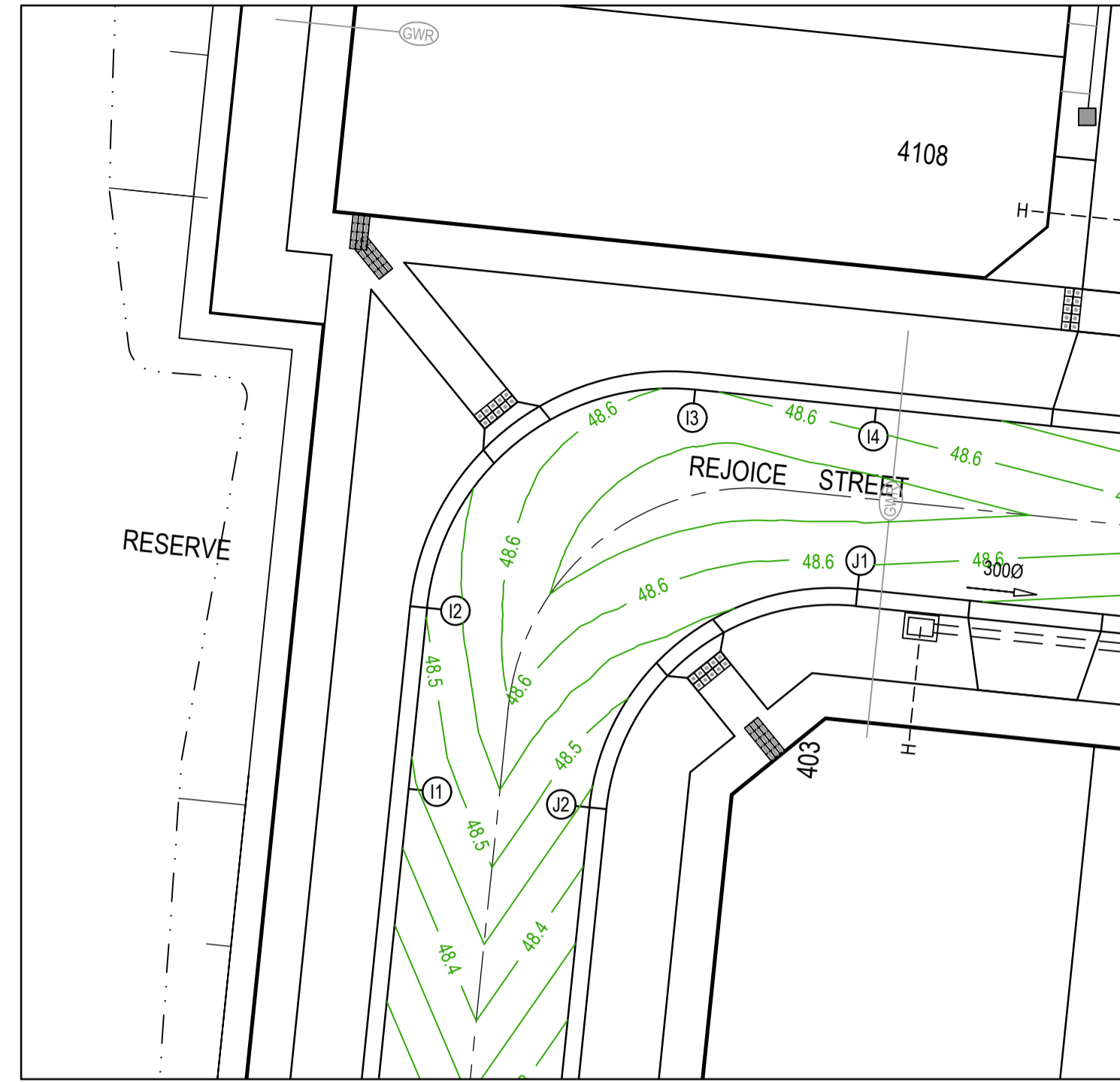
All setting out should be carried out in accordance with MPA/Council's standard drawings or as nominated on hard copy plans provided by SMEC. Any digital information supplied by this office is for information only. Any discrepancies should be discussed with the superintendent.

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

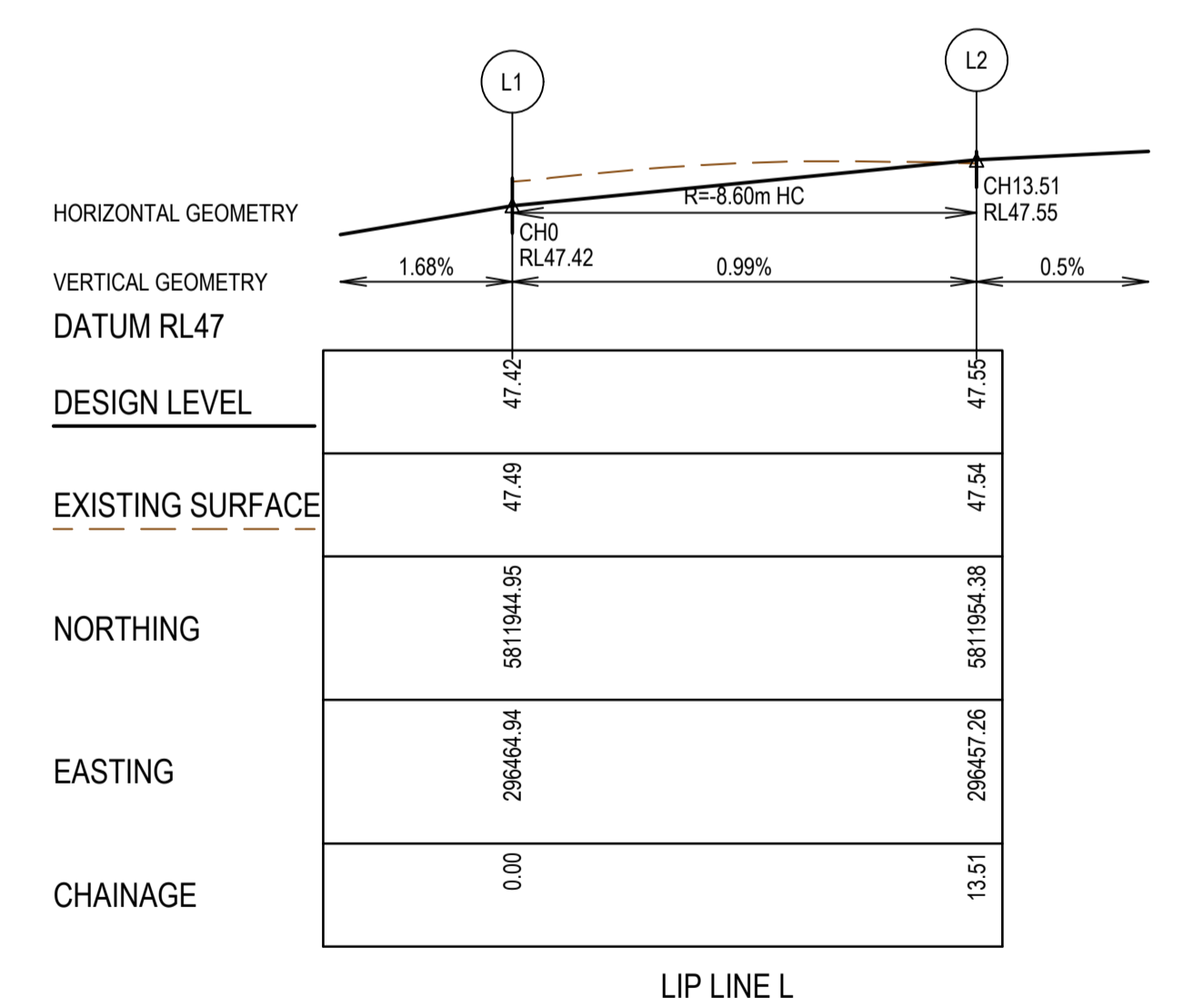
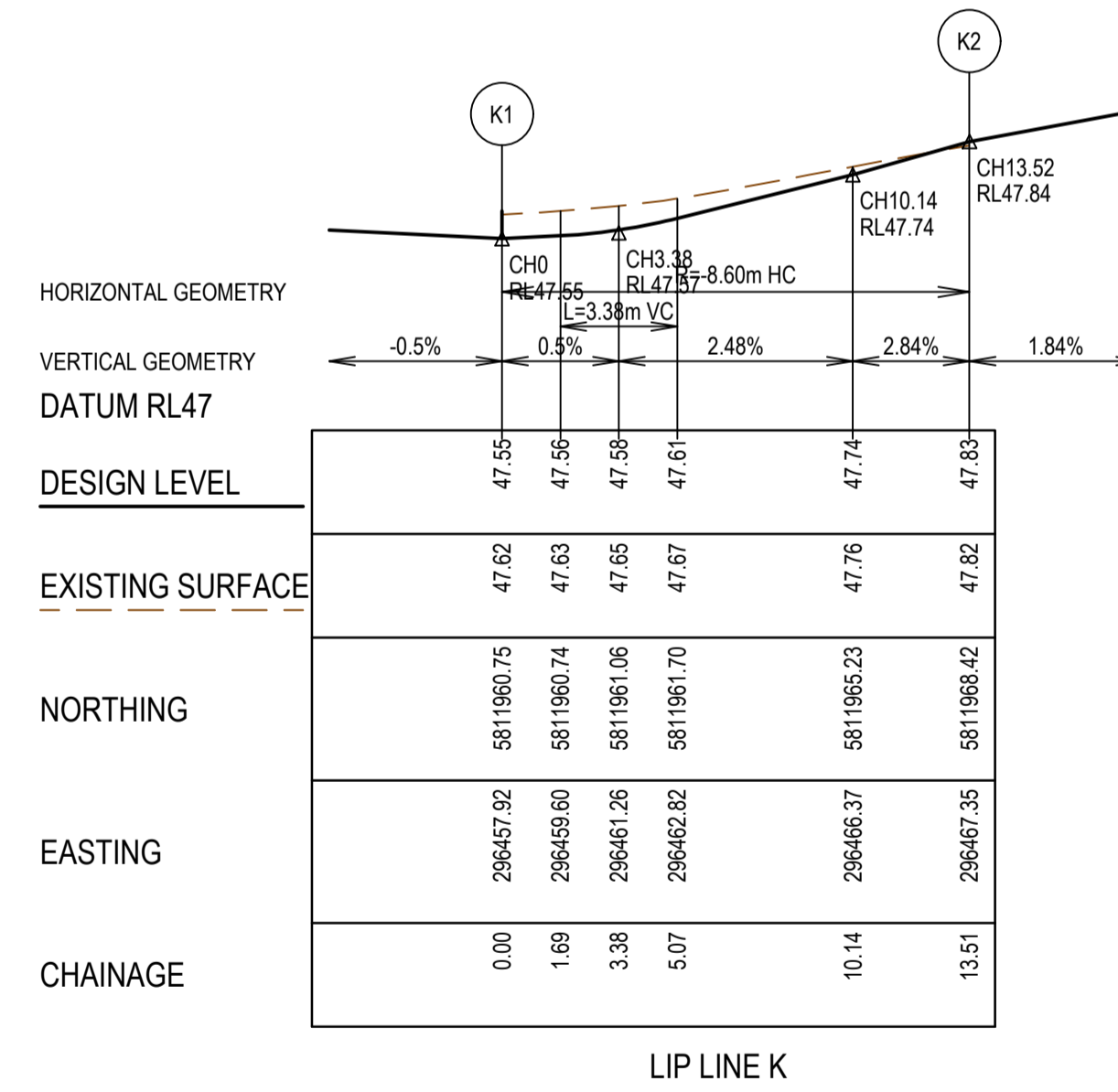
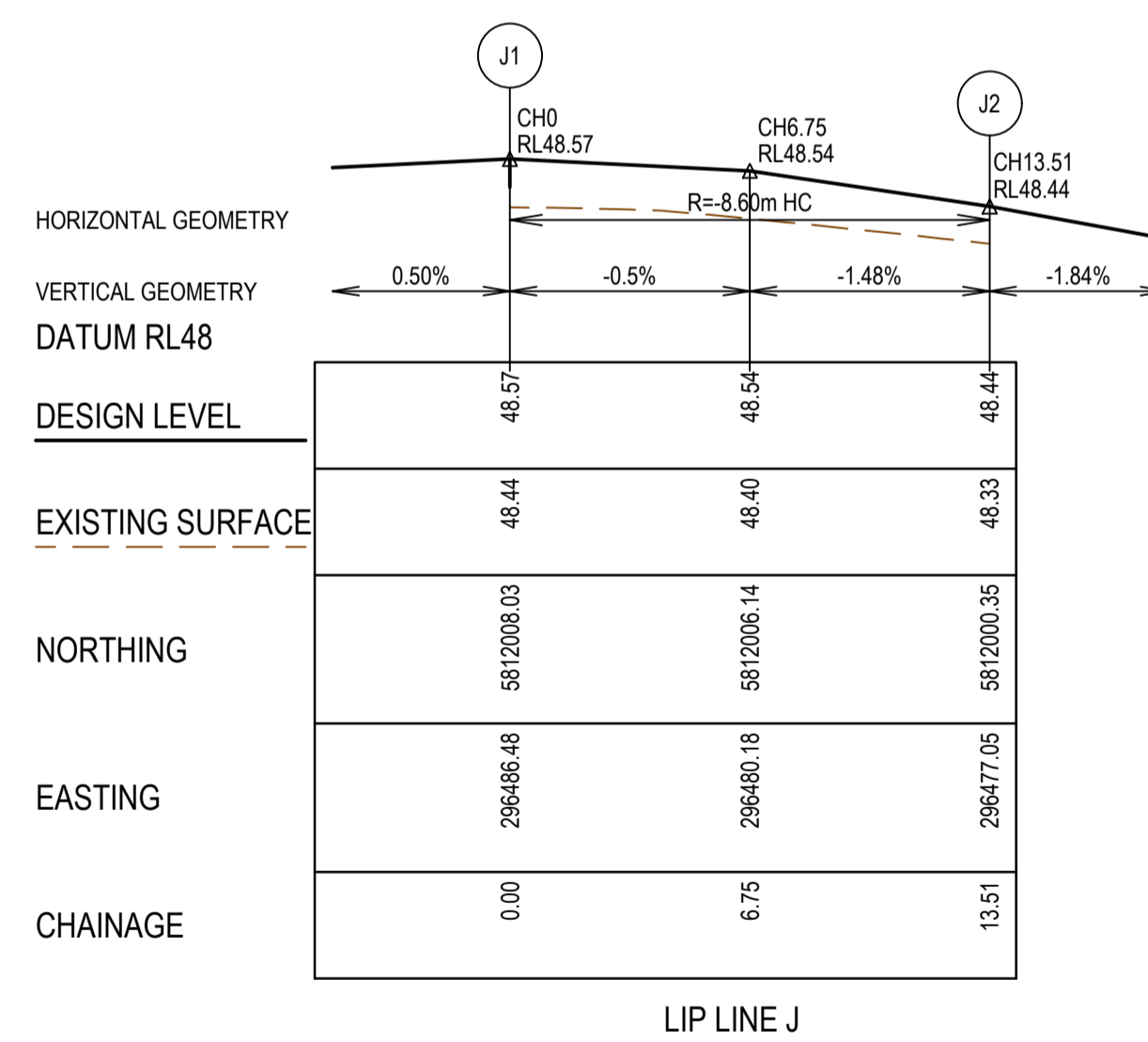
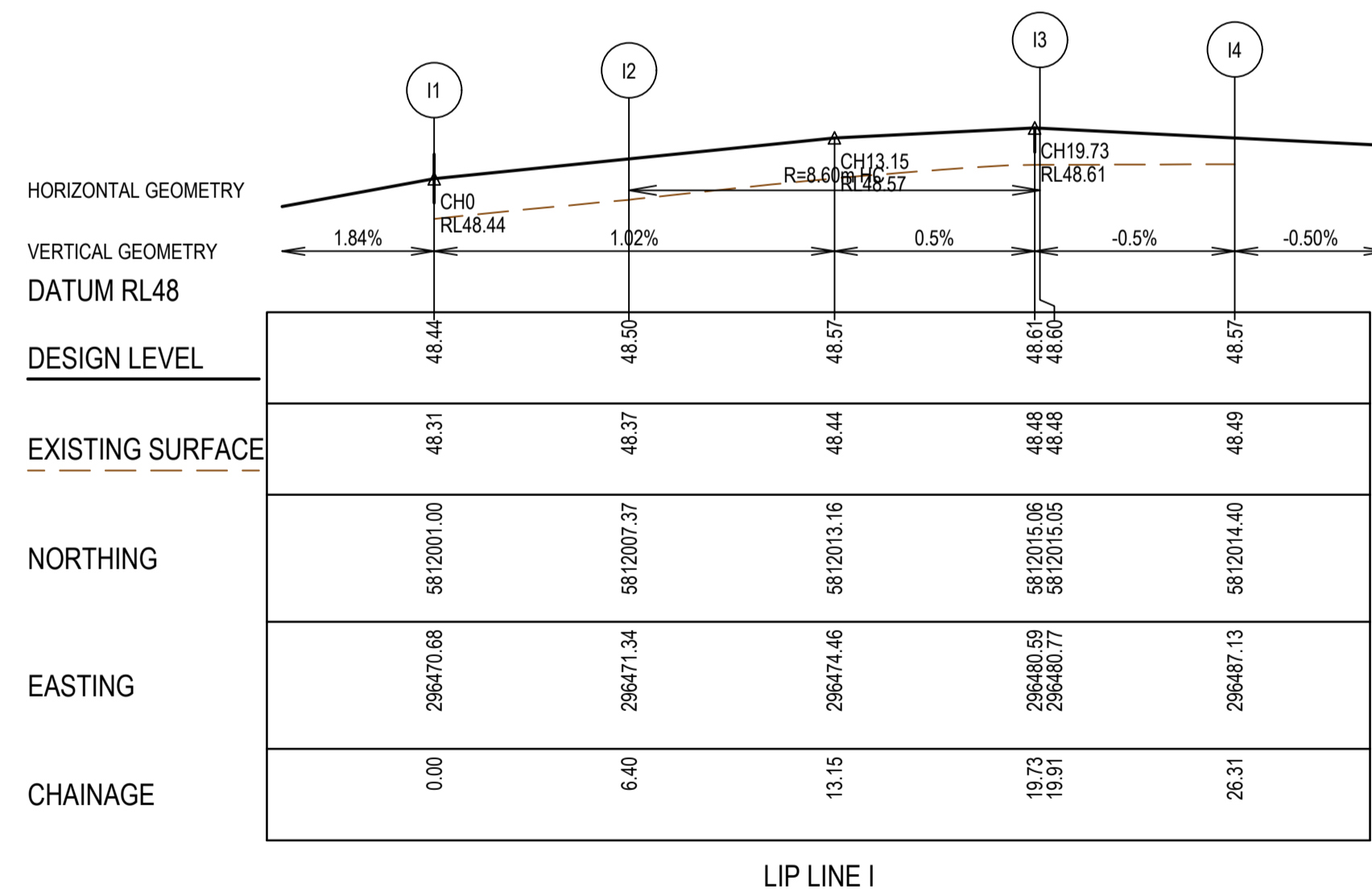


Marigold - Stage 4
Wyndham City Council
Road and Drainage
Intersection Detail Plan - 2

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-05	SHEET No. 05 of 27	REVISION C
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LEGEND - INTERSECTION DETAIL PLAN	
ALL PROPOSED, FUTURE & EXISTING SERVICE LOCATIONS ARE SHOWN INDICATIVELY	
	STORMWATER DRAIN, PIT & PROPERTY INLET
	MAIN DRAIN
	SEWER & MAINTENANCE STRUCTURES
	HOUSE DRAIN
	SERVICE CONDUITS
	TACTILE PAVERS
	EXISTING STORMWATER DRAIN
	EXISTING MAIN DRAIN
	EXISTING SEWER & MAINTENANCE STRUCTURES
	EXISTING SERVICE CONDUITS
	EXISTING TACTILE PAVERS
	FUTURE STORMWATER DRAIN
	FUTURE MAIN DRAIN
	FUTURE SEWER & MAINTENANCE STRUCTURES
	FUTURE HOUSE DRAIN
	FUTURE SERVICE CONDUITS
	FUTURE TACTILE PAVERS
	EXISTING RETAINING WALL
	RETAINING WALL
	FUTURE RETAINING WALL
	EDGE STRIP, SUBSOIL DRAIN, 'NO ROAD' SIGN & BARRIER
	PERMANENT SURVEY MARK
	TEMPORARY BENCH MARK
	PROPOSED DRIVEWAY & FOOTPATH



- 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.

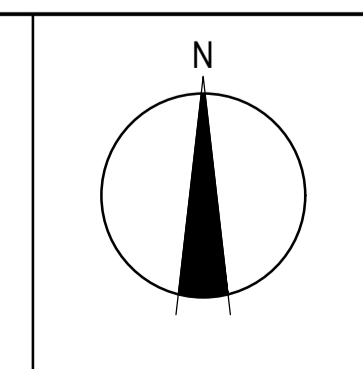
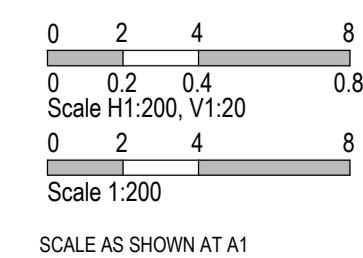
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.19	COUNCIL COMMENTS	SH/LC	BS

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Quality Management - ISO 9001
OHS Management - AS/NZS 1881
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	

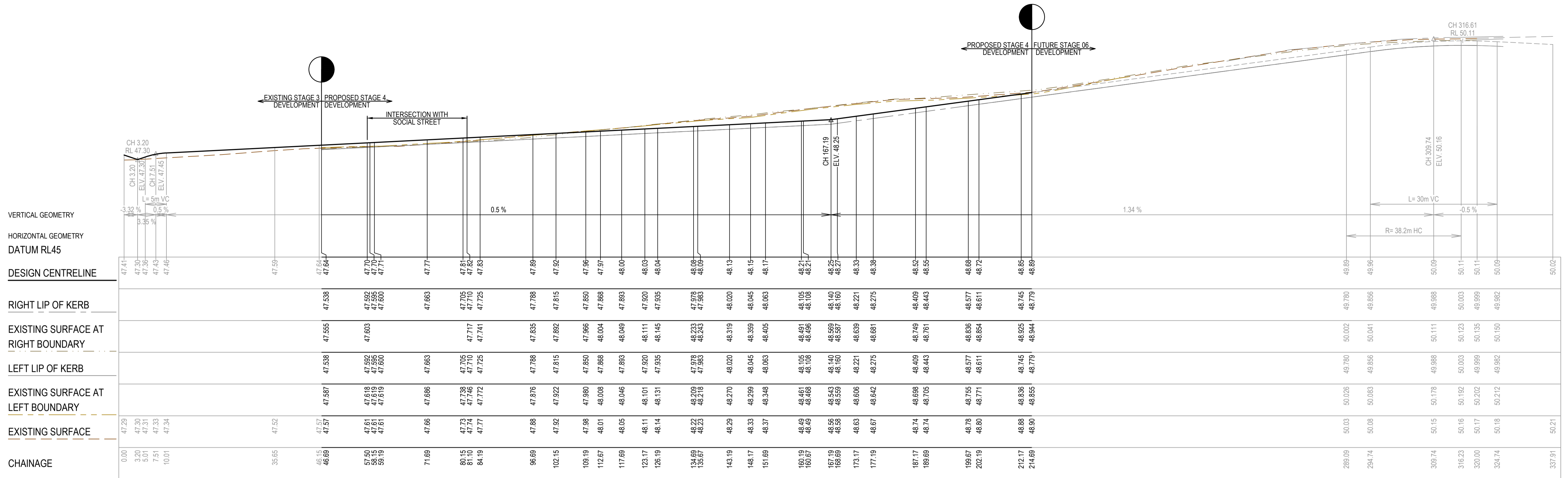


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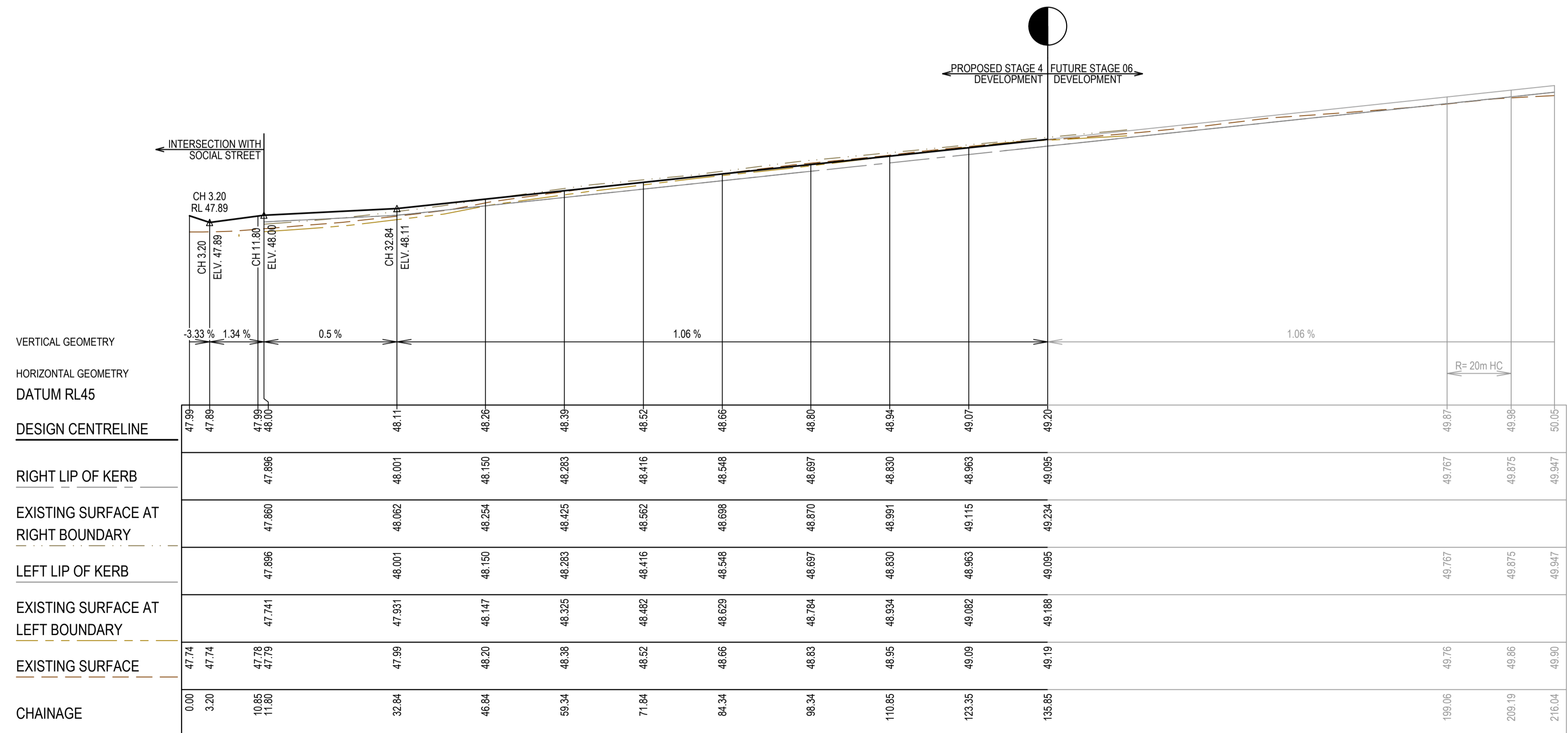
GROWLAND

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

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-06	SHEET No. 06 of 27	REVISION C
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RESPECT WAY LONGITUDINAL SECTION



FROLIC STREET LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS

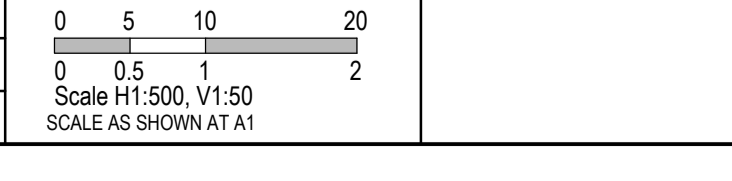
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TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	

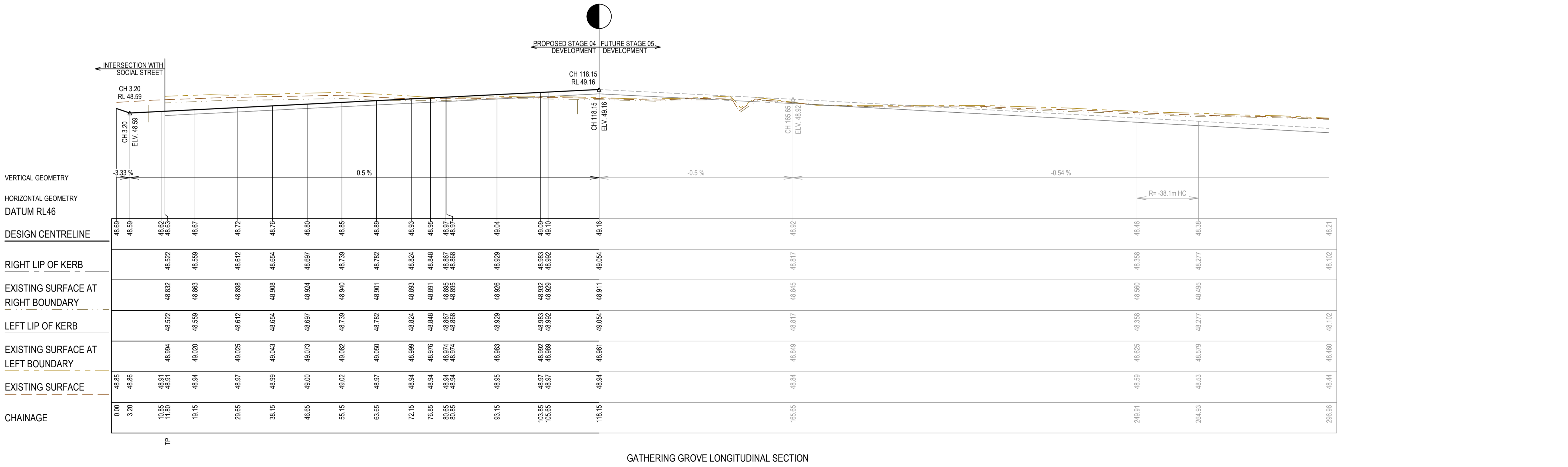
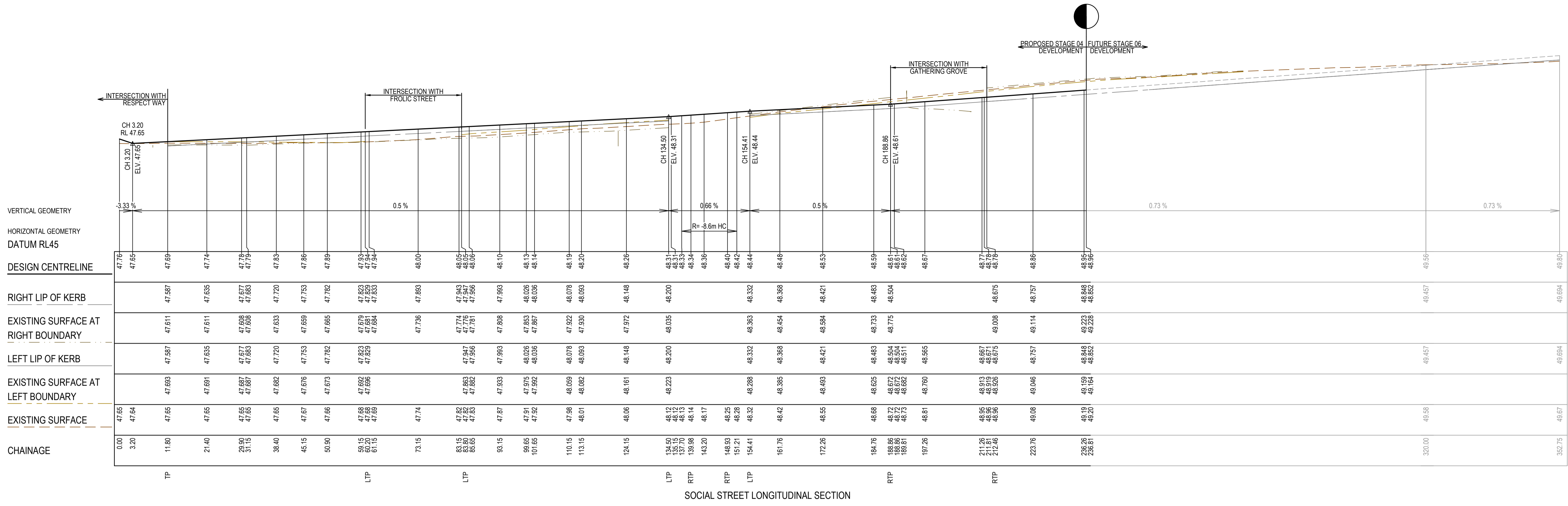


Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Longitudinal Sections - 1
 Respect Way & Frolic Street

SUBJECT TO APPROVAL



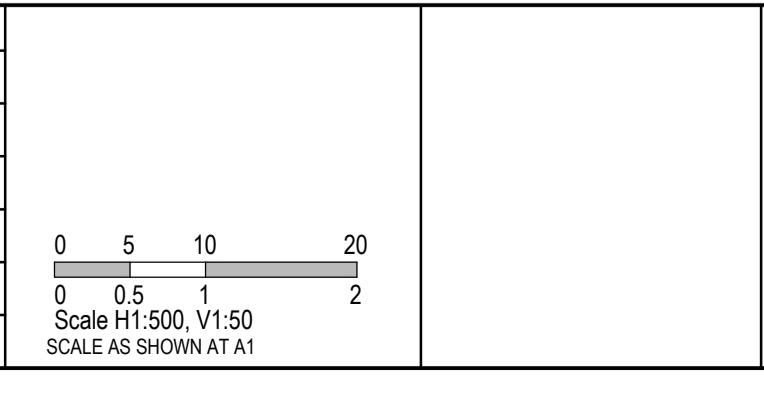
MELBOURNE REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-04-07	07 of 27	B



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS

SUBJECT TO APPROVAL

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

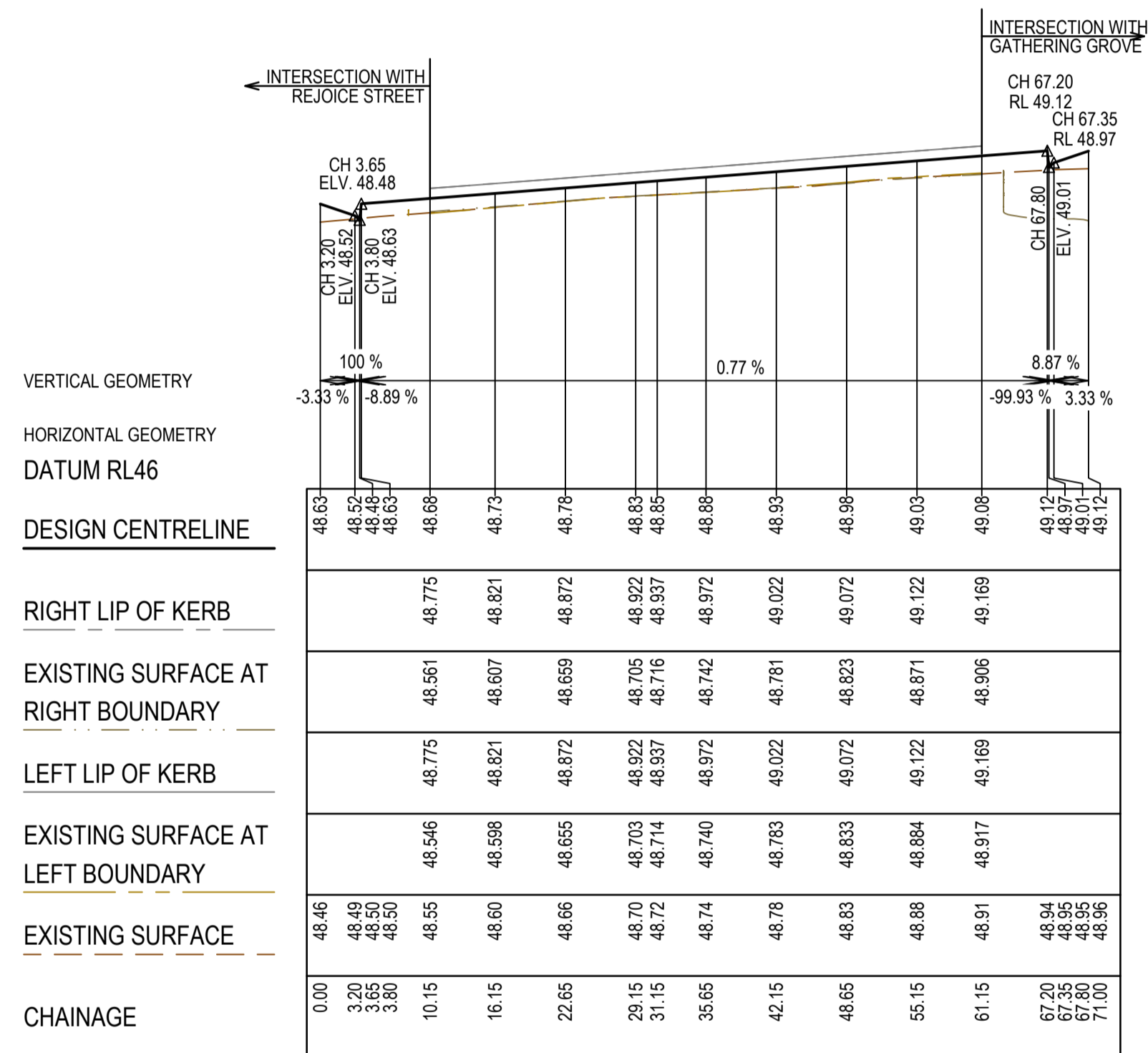


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Melbourne, VIC 3008
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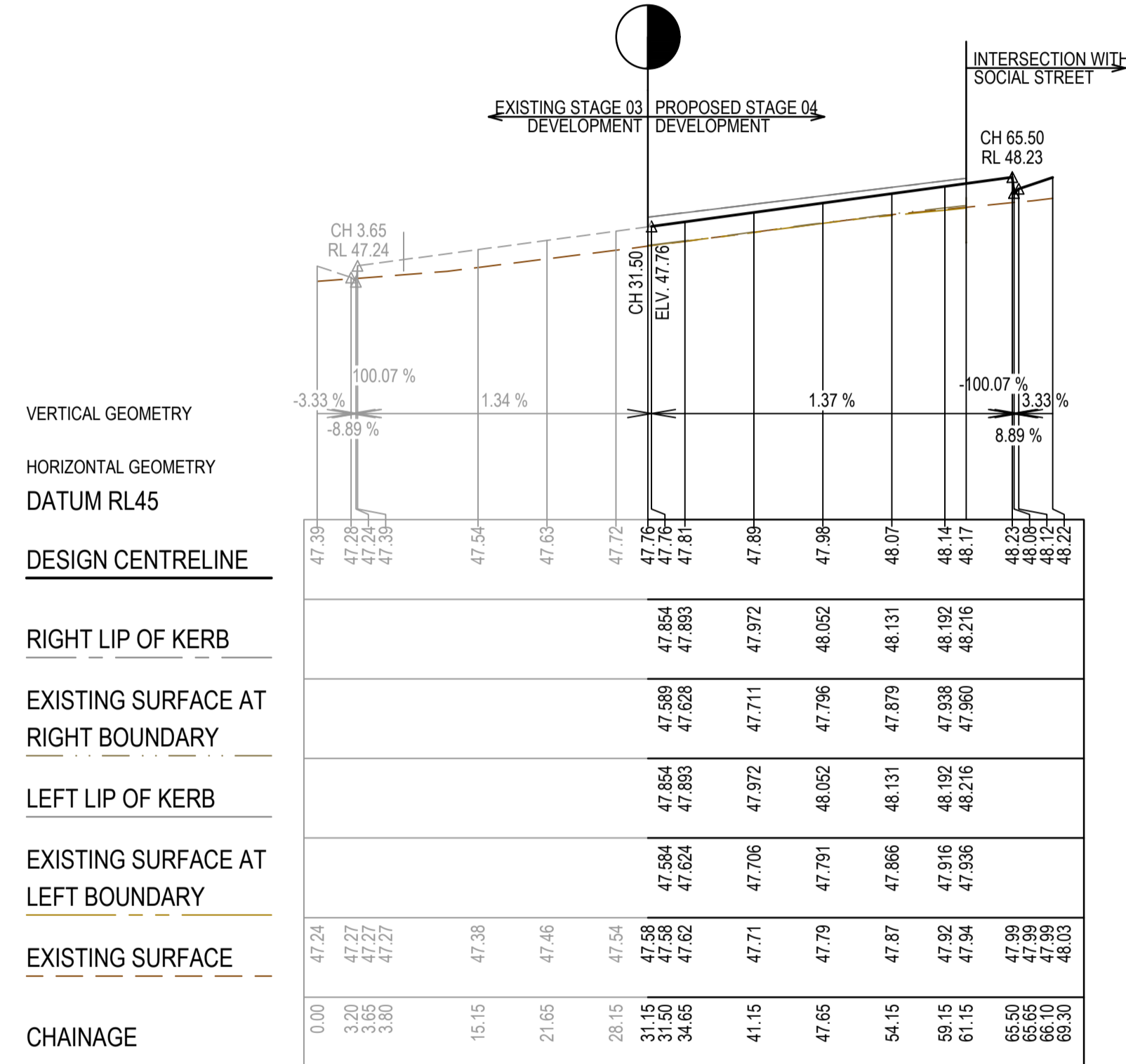
GROWLAND

Marigold - Stage 4
Wyndham City Council
Road and Drainage
Longitudinal Sections - 2
Social Street & Gathering Grove

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-08	SHEET No. 08 of 27	REVISION B
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PURE LANE LONGITUDINAL SECTION

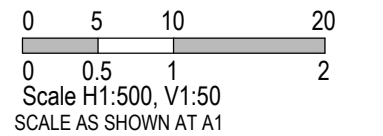


FUN LANE LONGITUDINAL SECTION

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS

SUBJECT TO APPROVAL

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



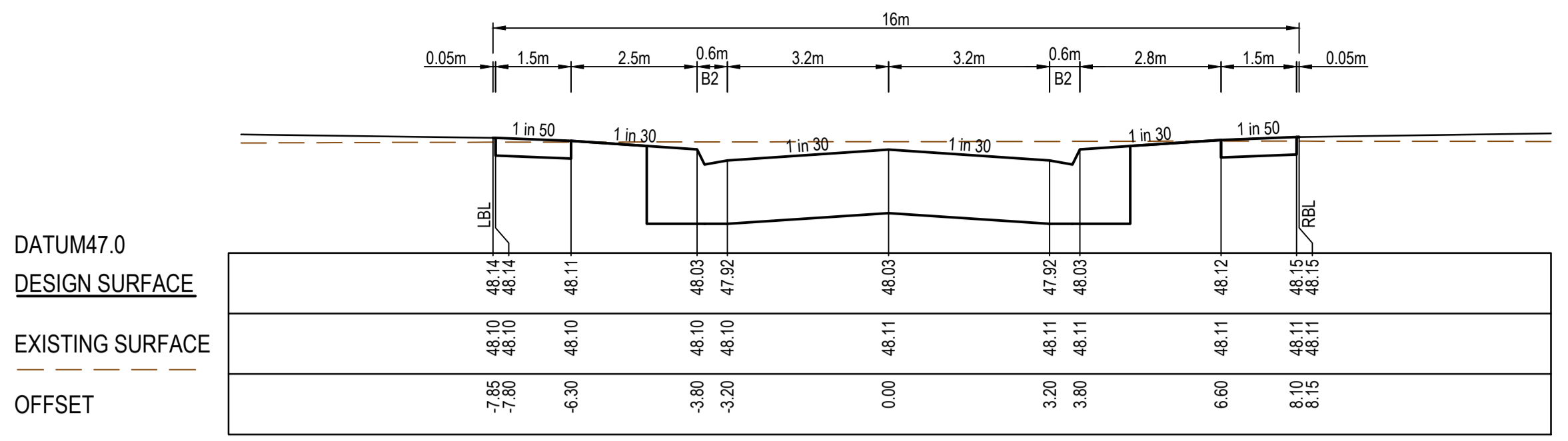
SMEC
Member of the **Surbana Jurong Group**
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

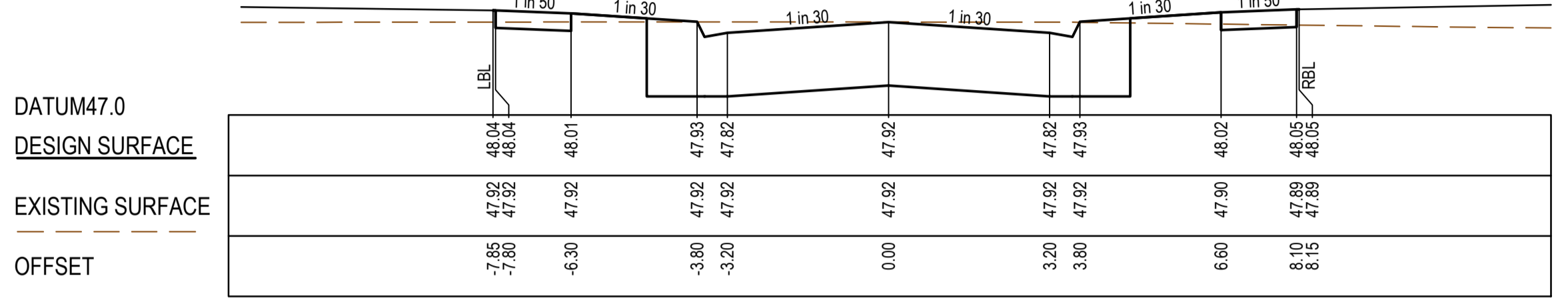
Marigold - Stage 4
Wyndham City Council
Road and Drainage
Longitudinal Sections - 4
Pure Lane & Fun Lane

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-10	SHEET No. 10 of 27	REVISION B
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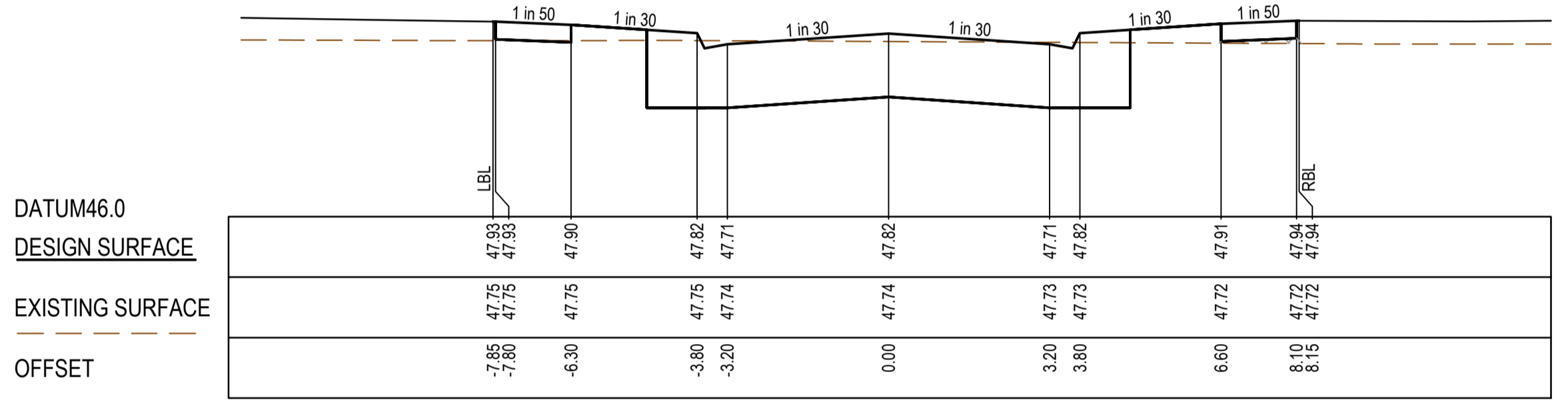
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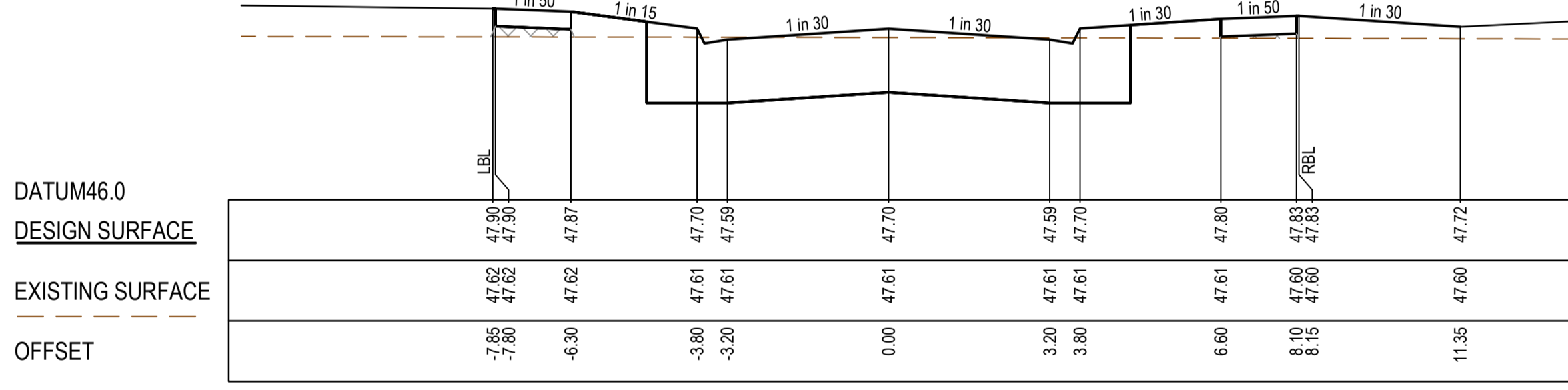
CH 123.17



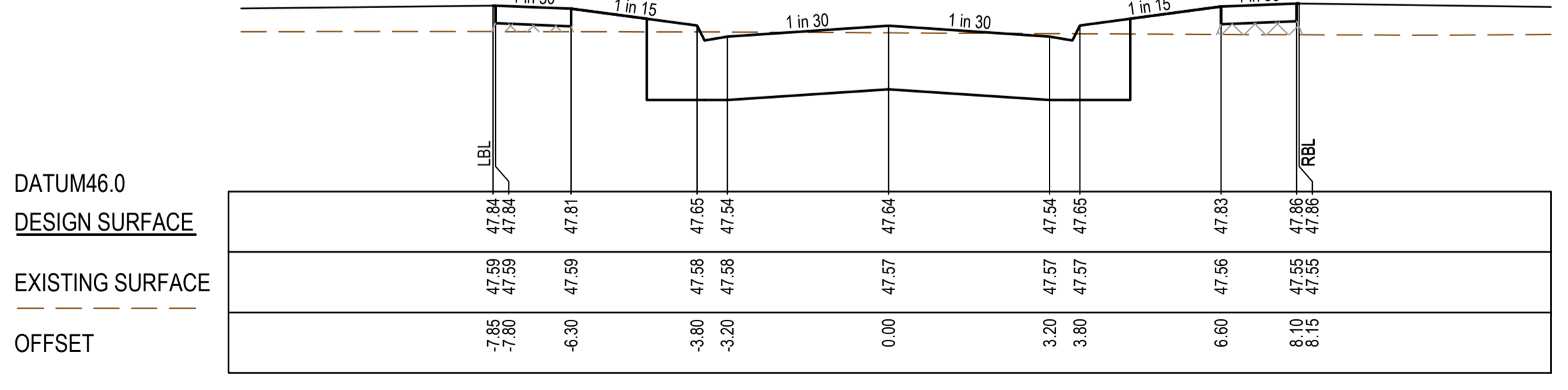
CH 102.15



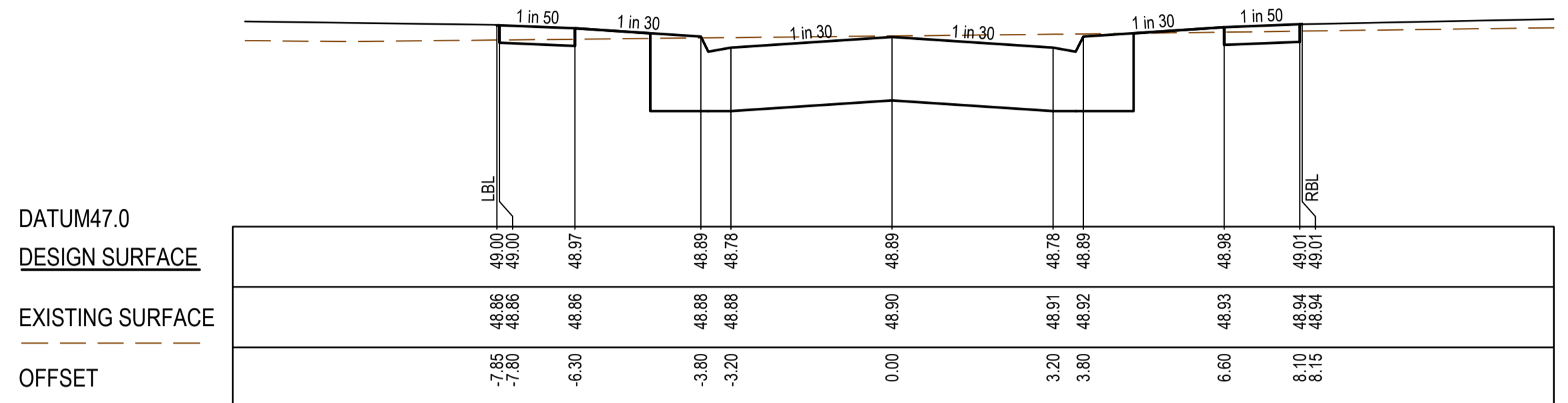
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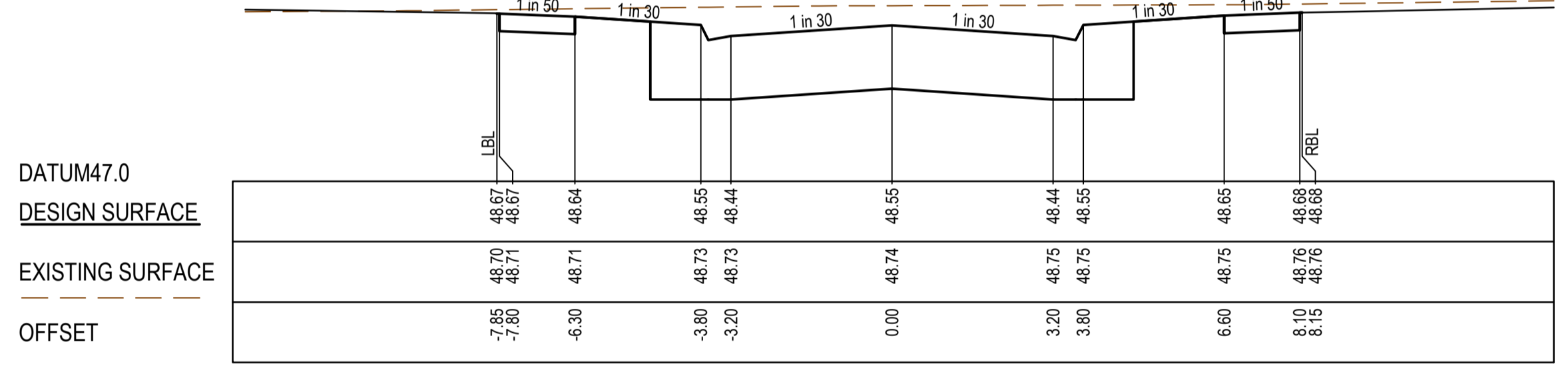
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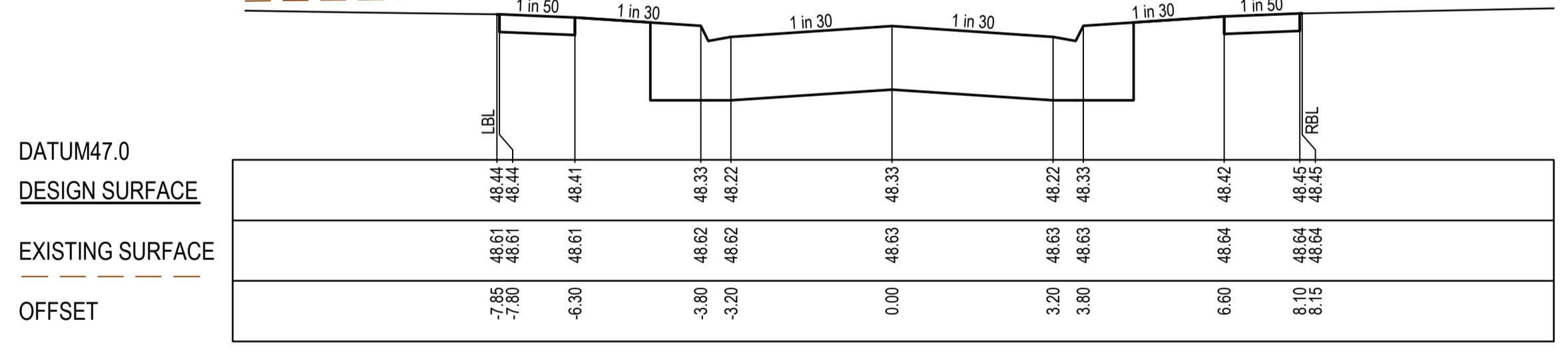
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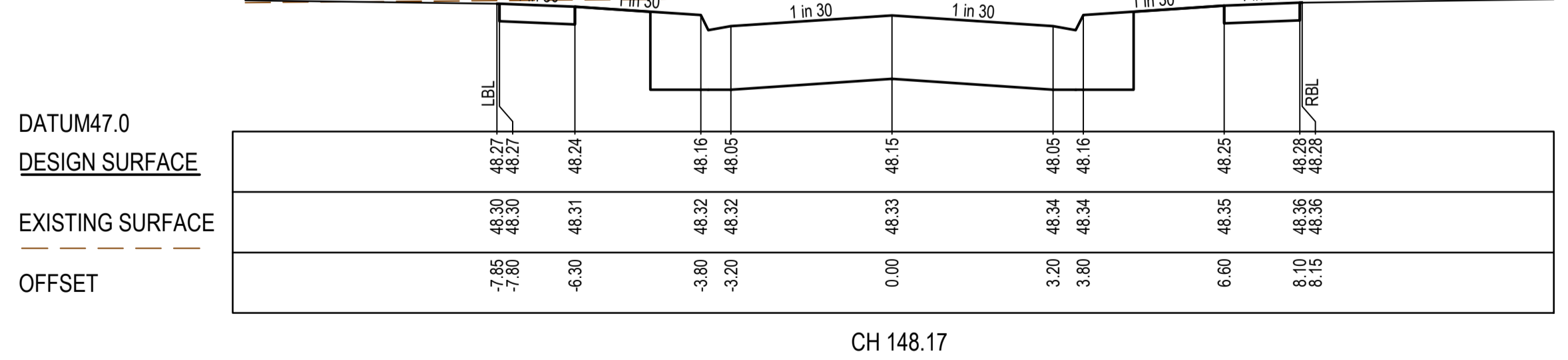
CH 214.69



CH 189.69



CH 173.17

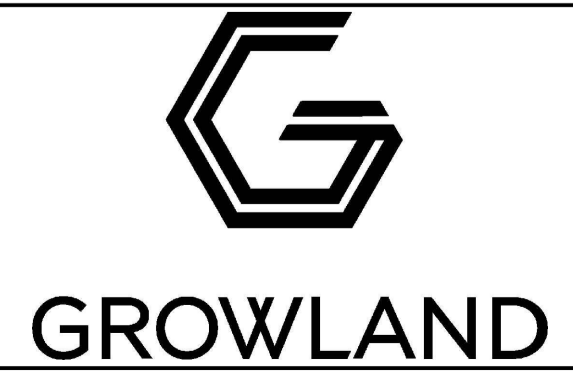
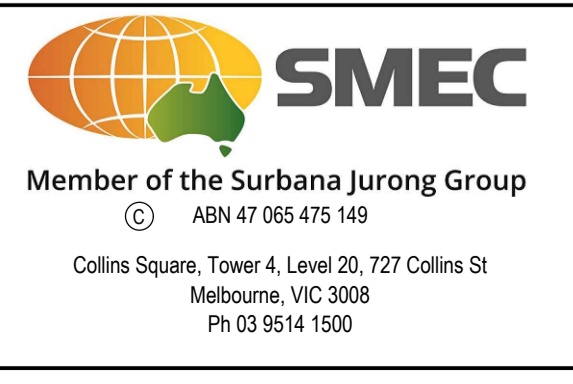
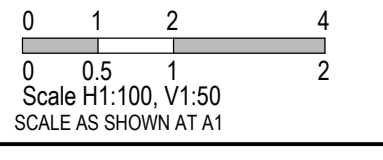


CH 148.17

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS

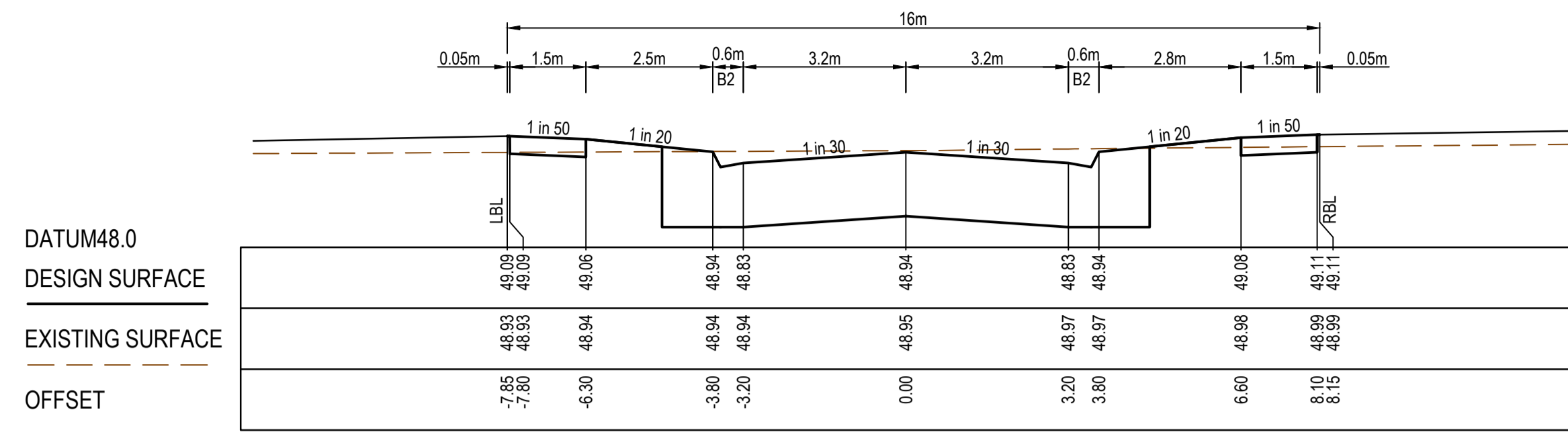
SUBJECT TO APPROVAL

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

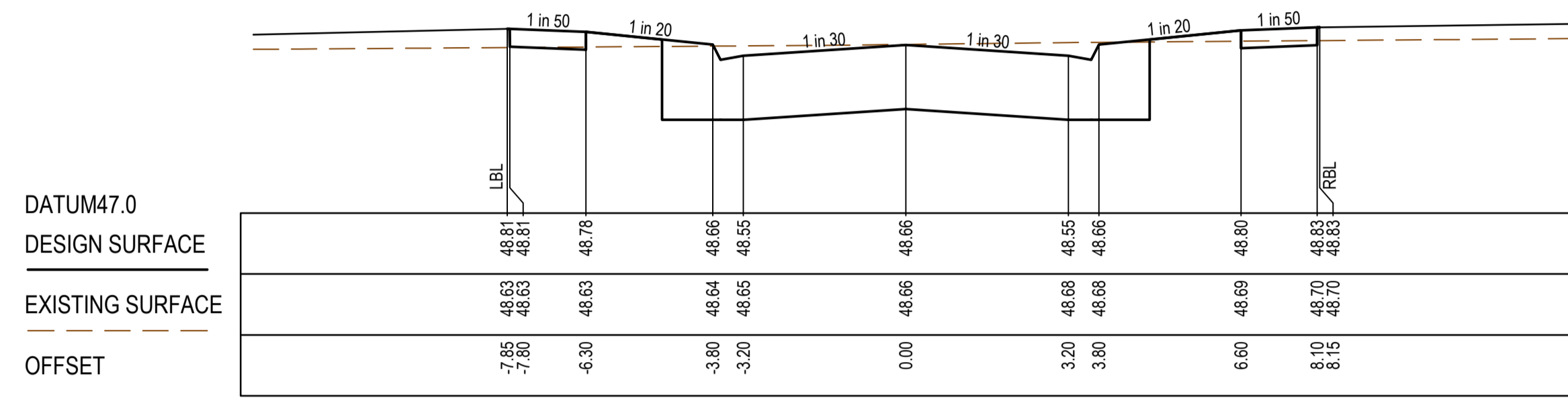


Marigold - Stage 4 Wyndham City Council Road and Drainage Cross Sections: Respect Way		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-11	SHEET No. 11 of 27	REVISION B
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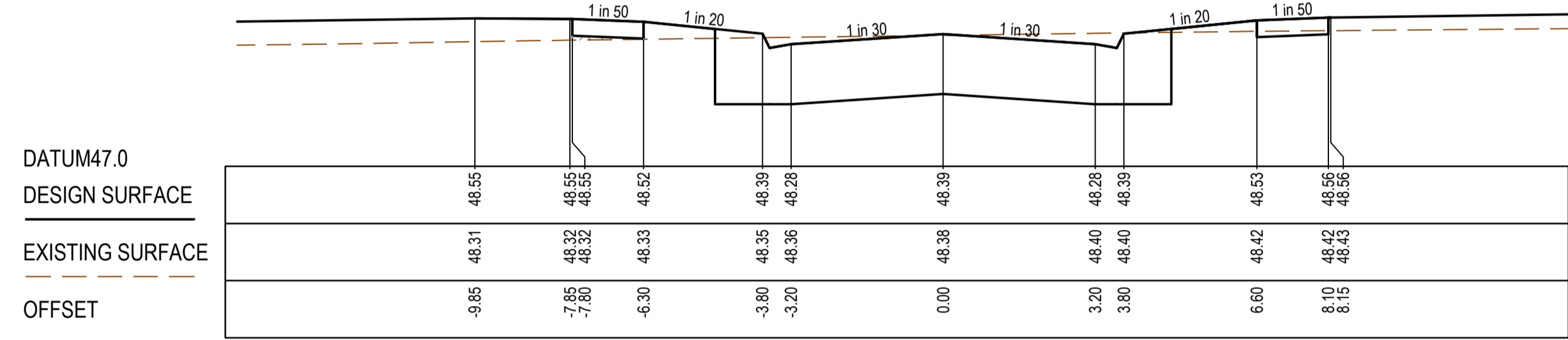
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



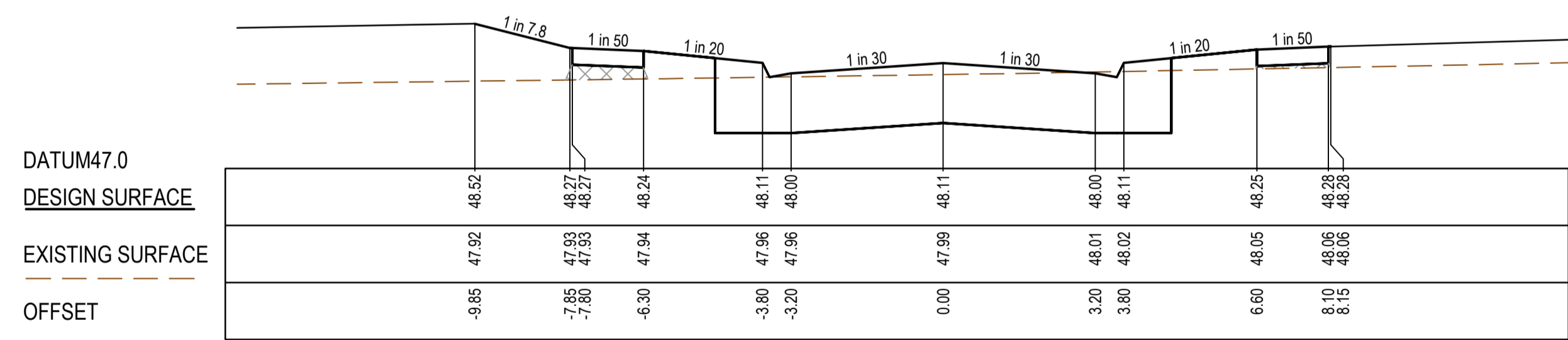
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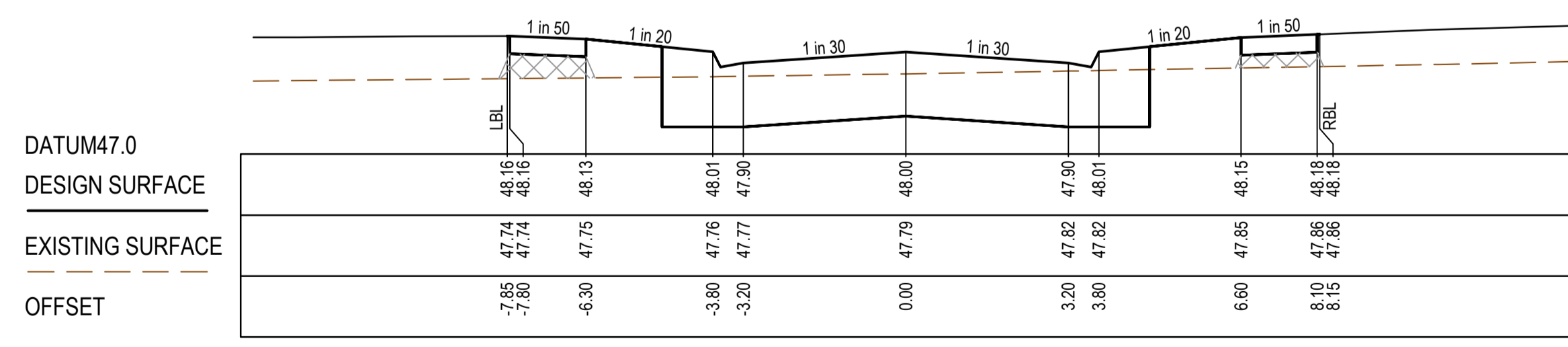
CH 84.34



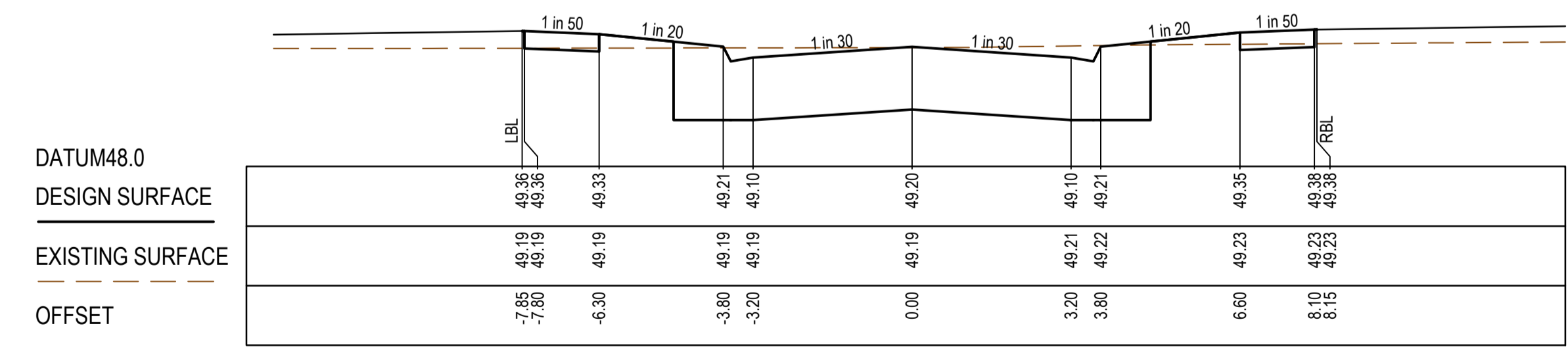
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CH 32.84



TPCH 11.80

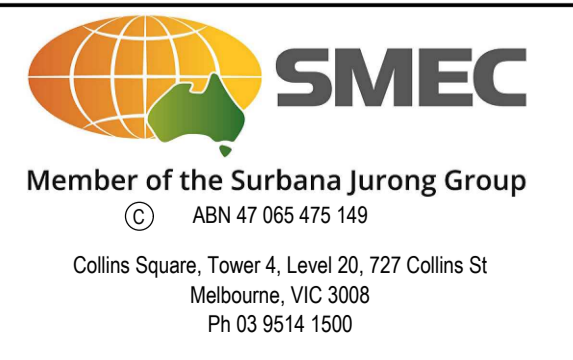
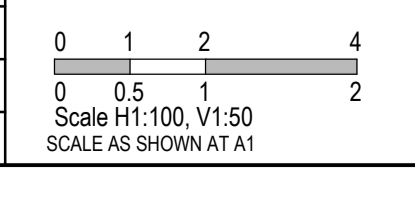


CH 135.85

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
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B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS

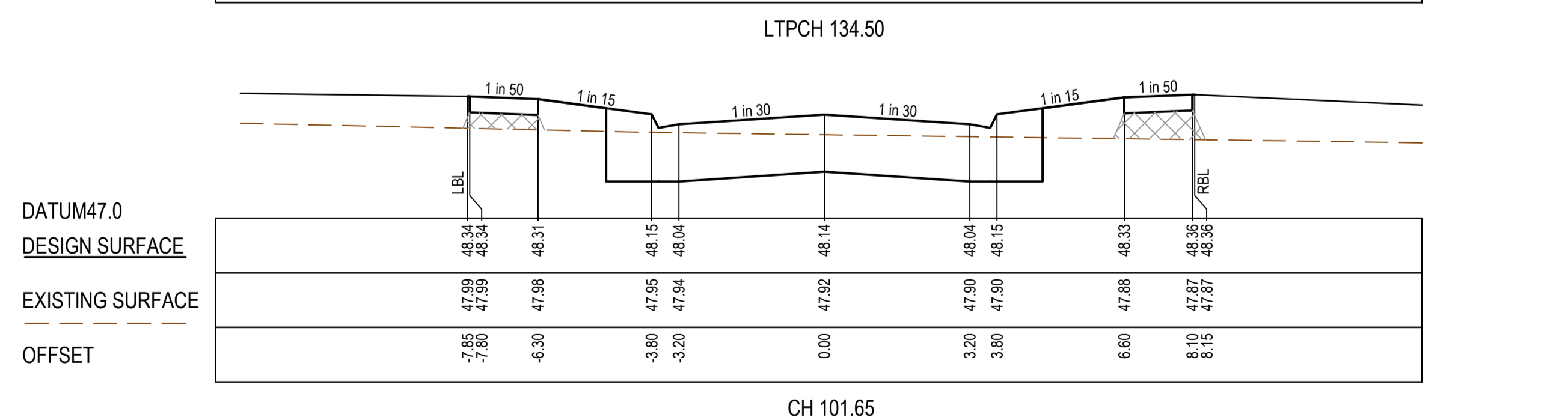
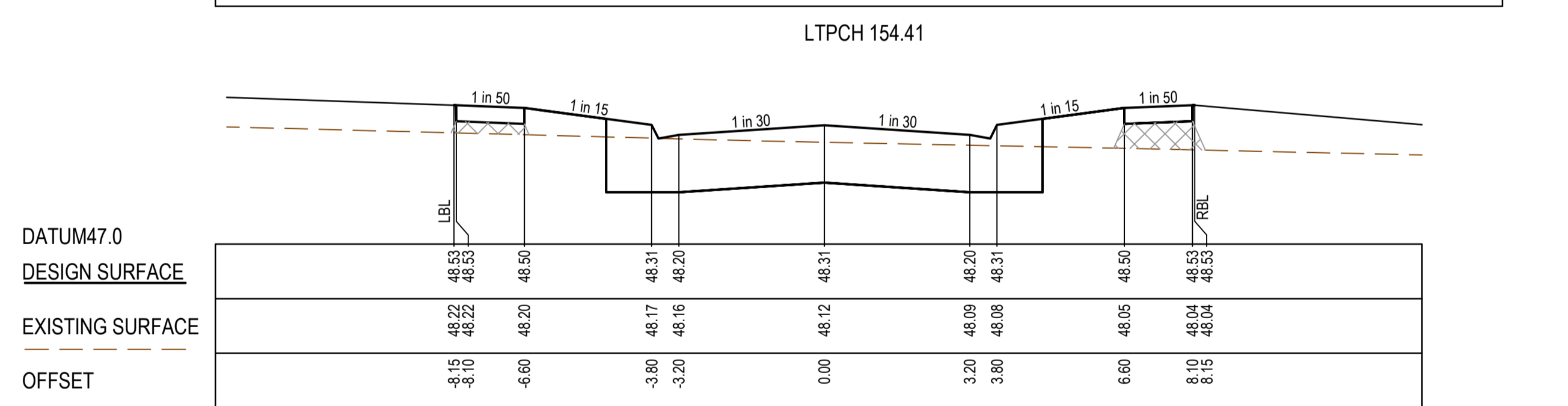
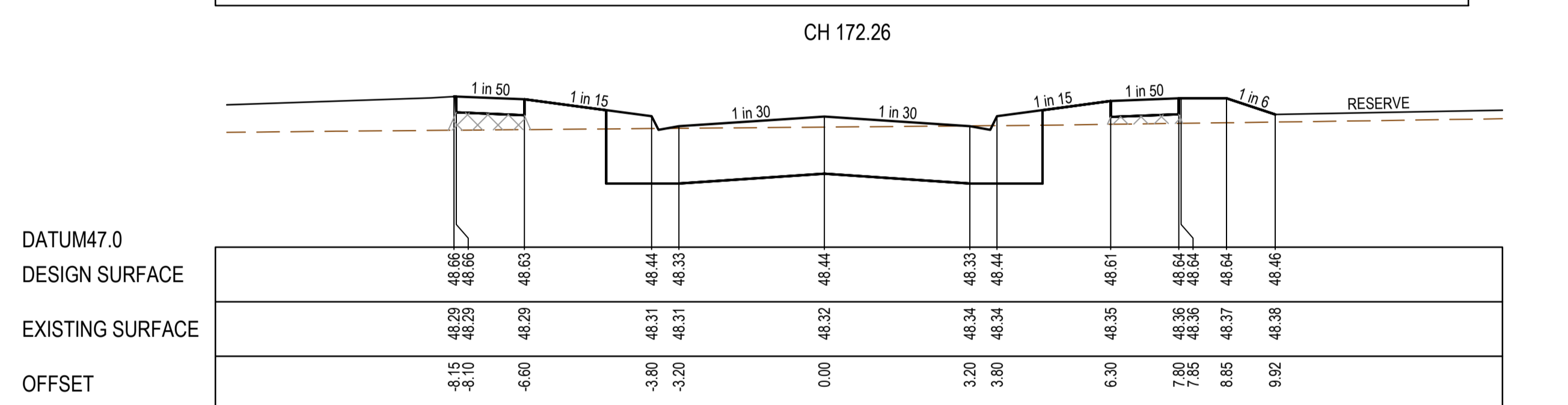
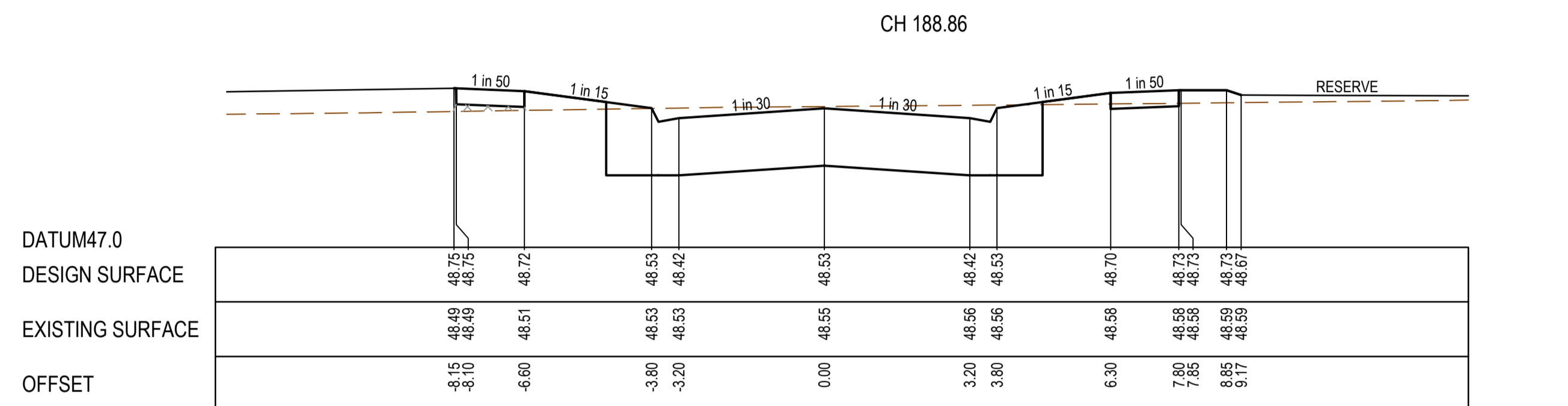
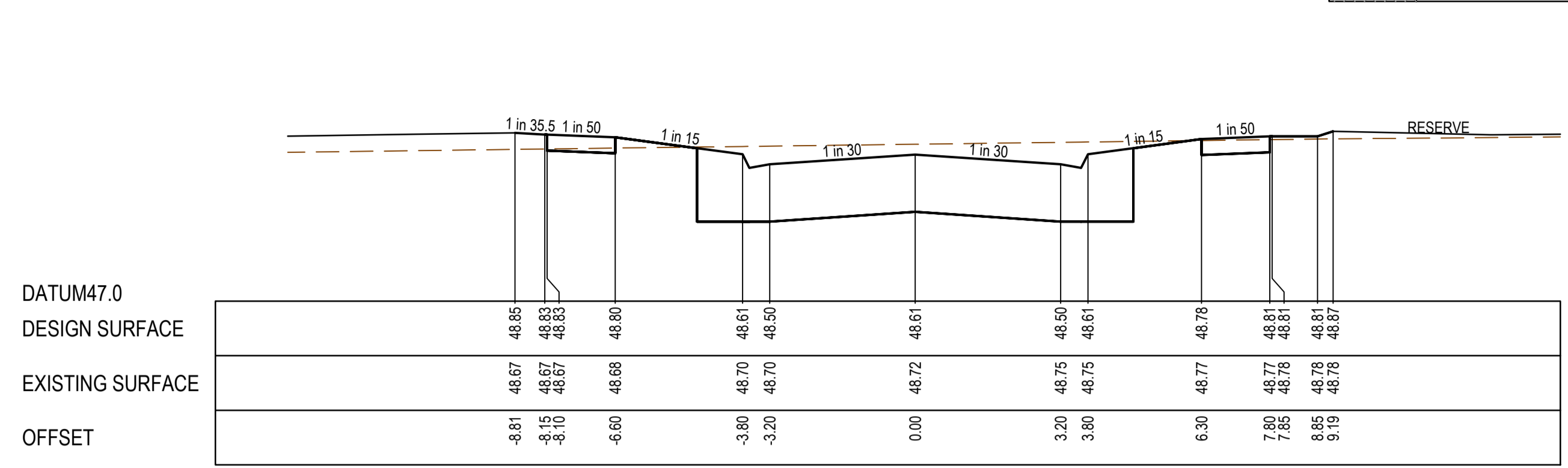
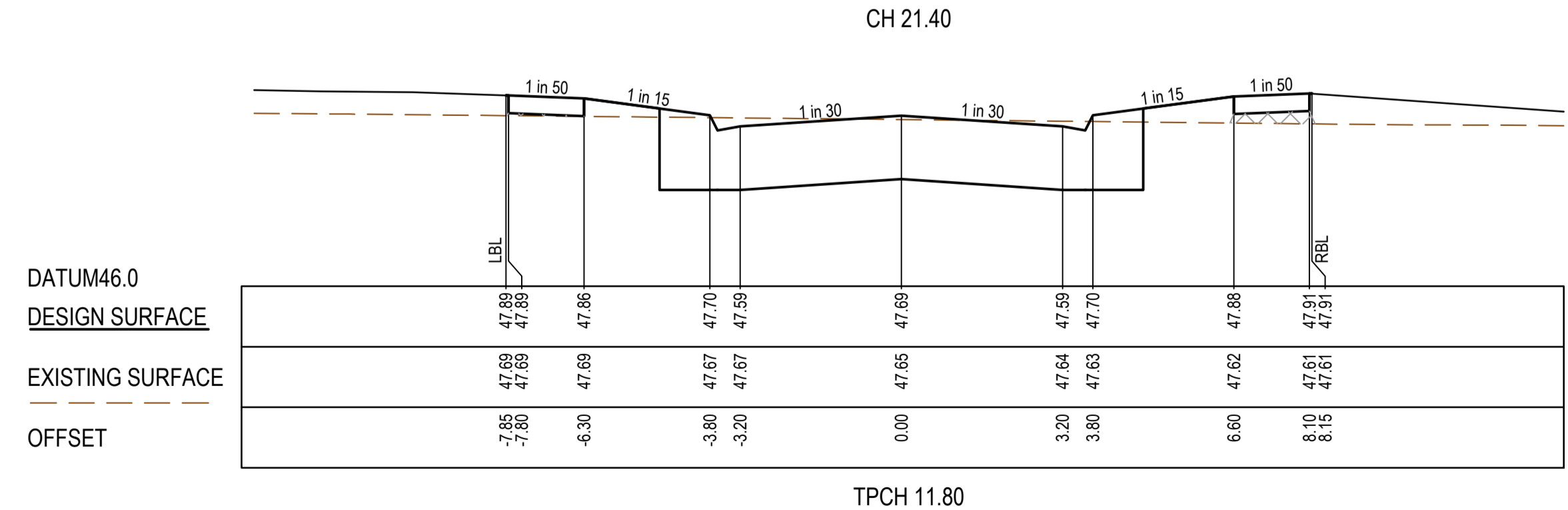
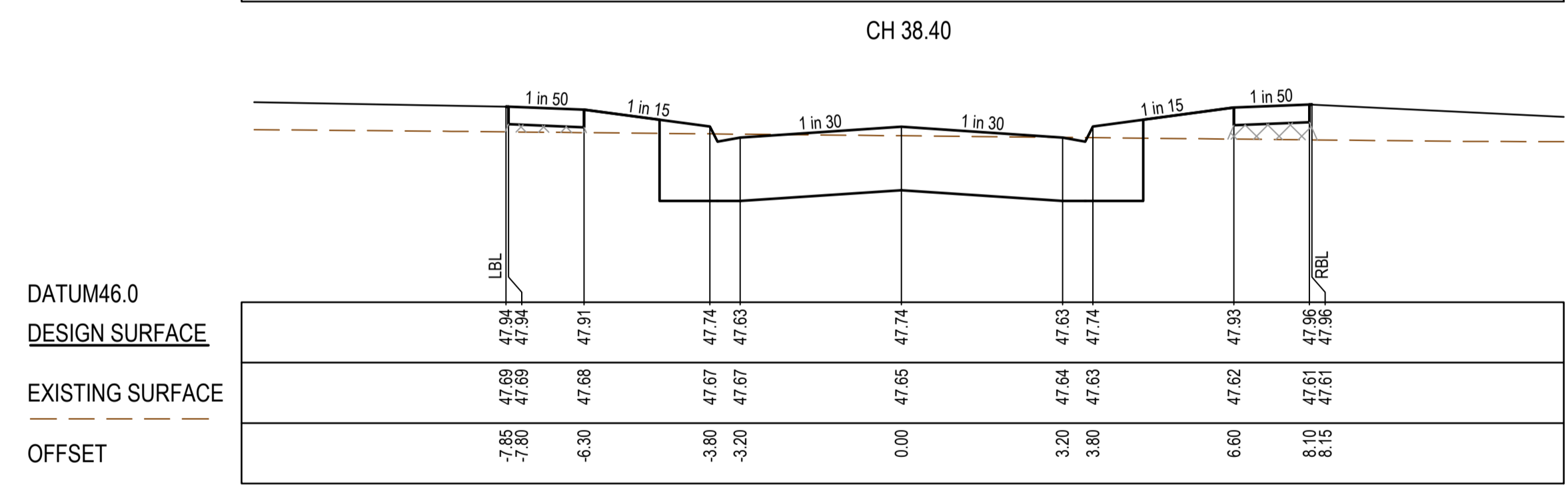
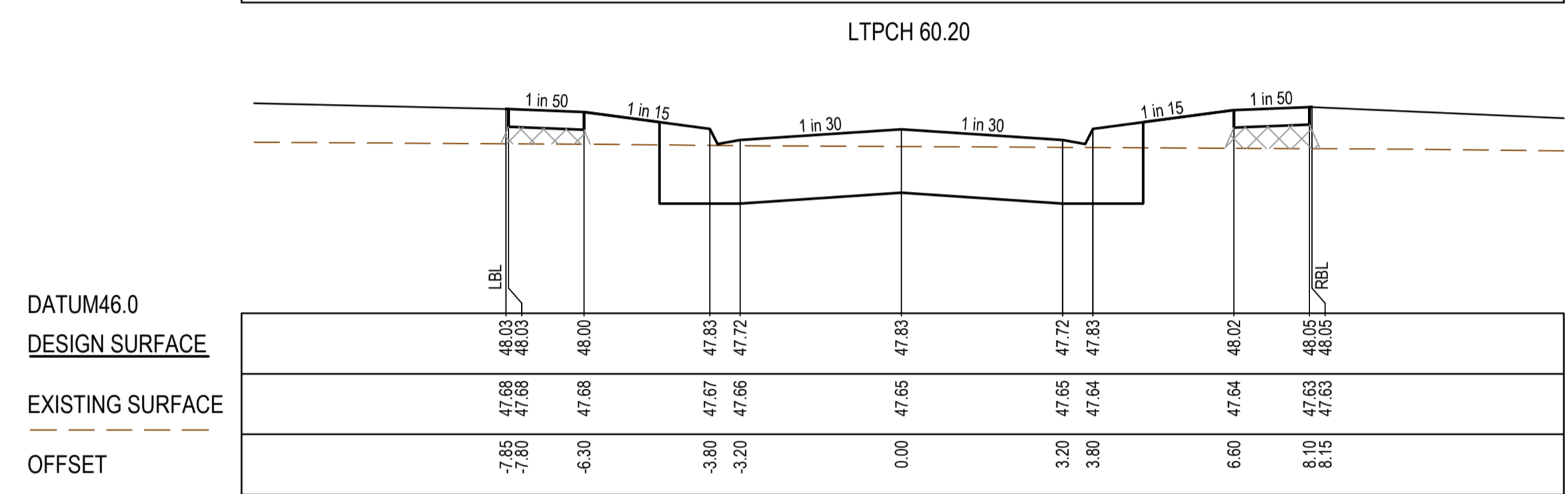
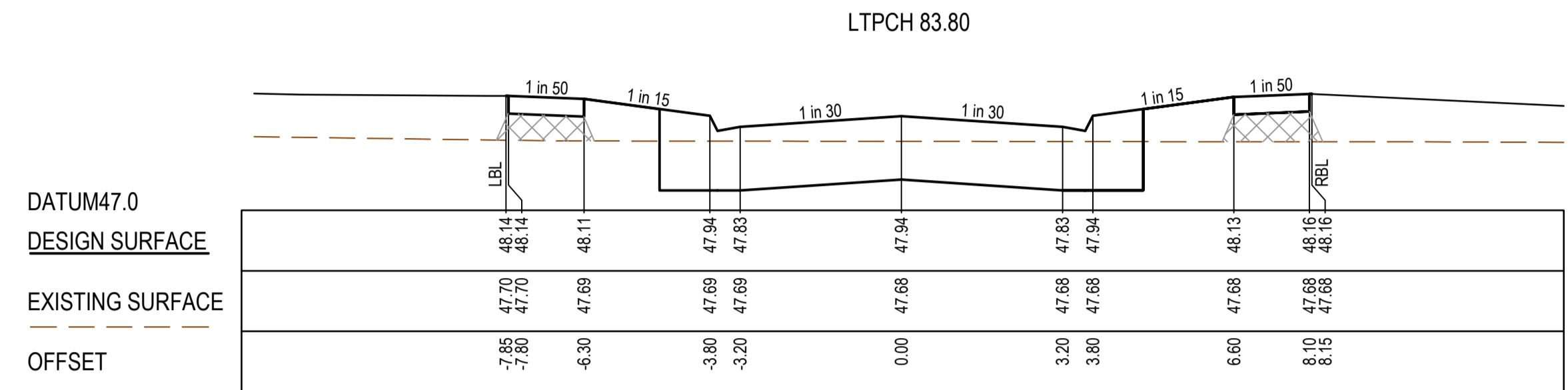
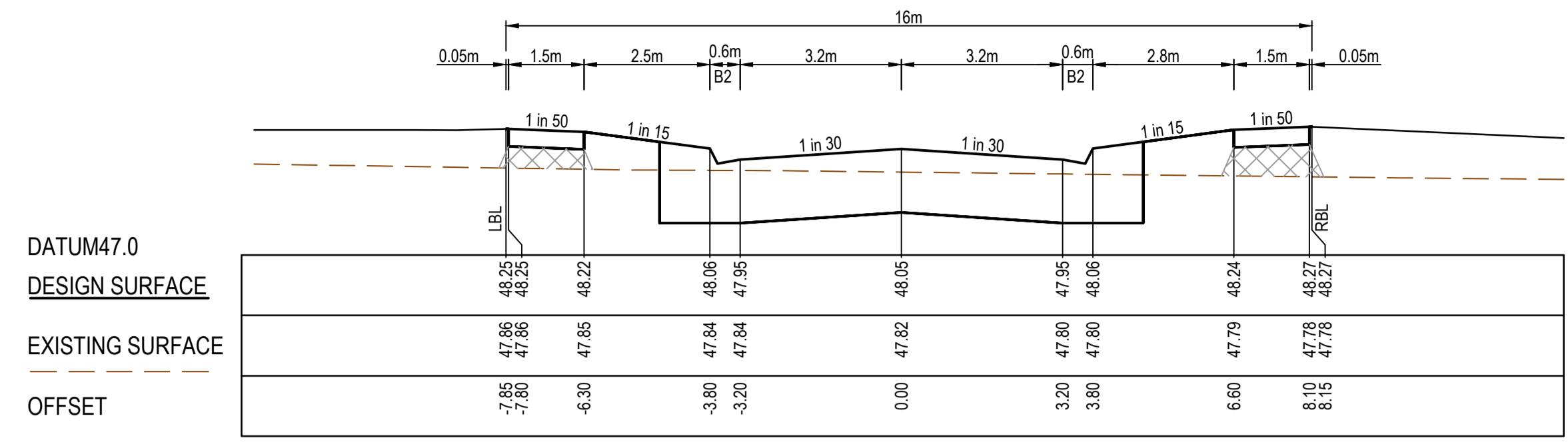
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AUTHORISED	B.Sanderson		
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REFERENCE No. 2			



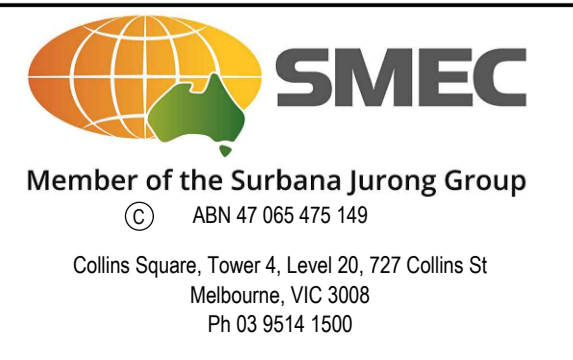
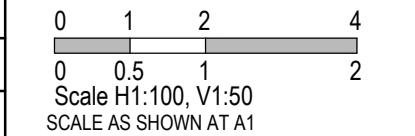
Marigold - Stage 4 Wyndham City Council Road and Drainage Cross Sections: Frolic Street		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-12	SHEET No. 12 of 27	REVISION B
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STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



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C	20.12.19	COUNCIL COMMENTS	SH/LC	BS

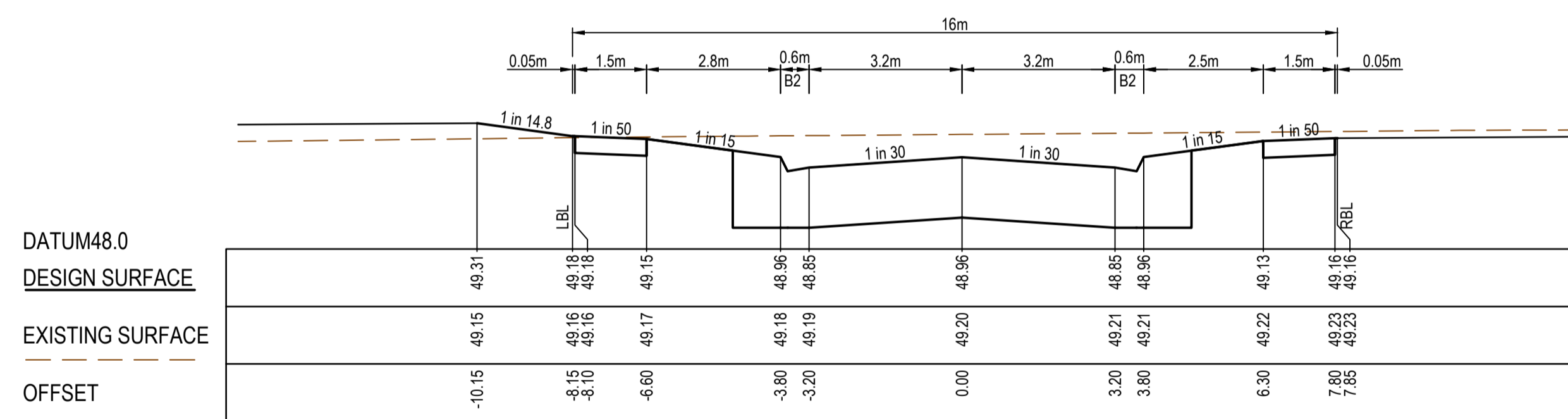
TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



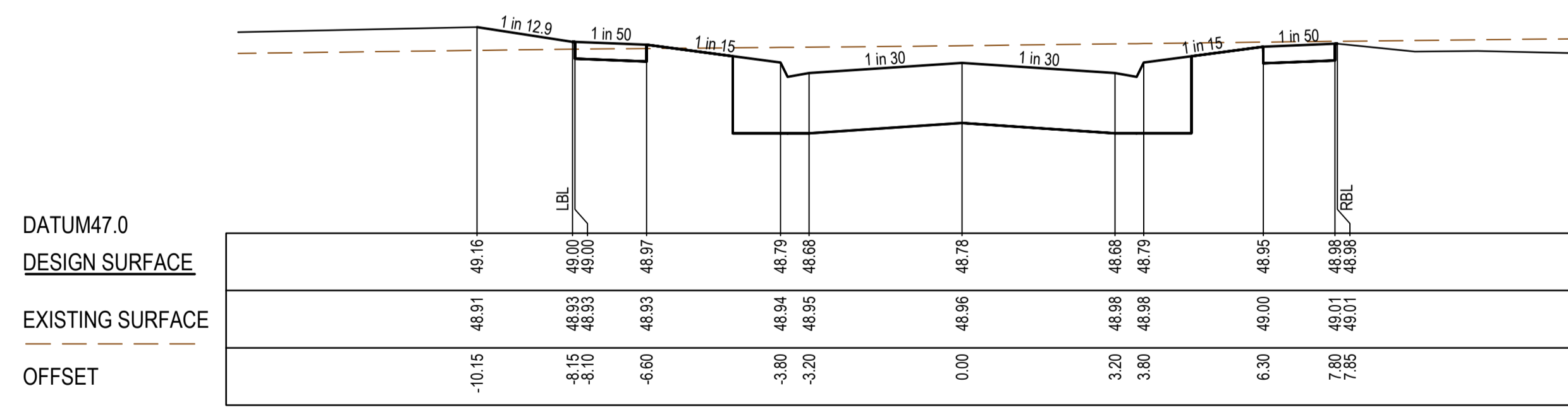
Marigold - Stage 4
Wynham City Council
Road and Drainage
Cross Sections: Social Street
Ch 11.80 - Ch 188.85

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-04-13	13 of 27	C

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

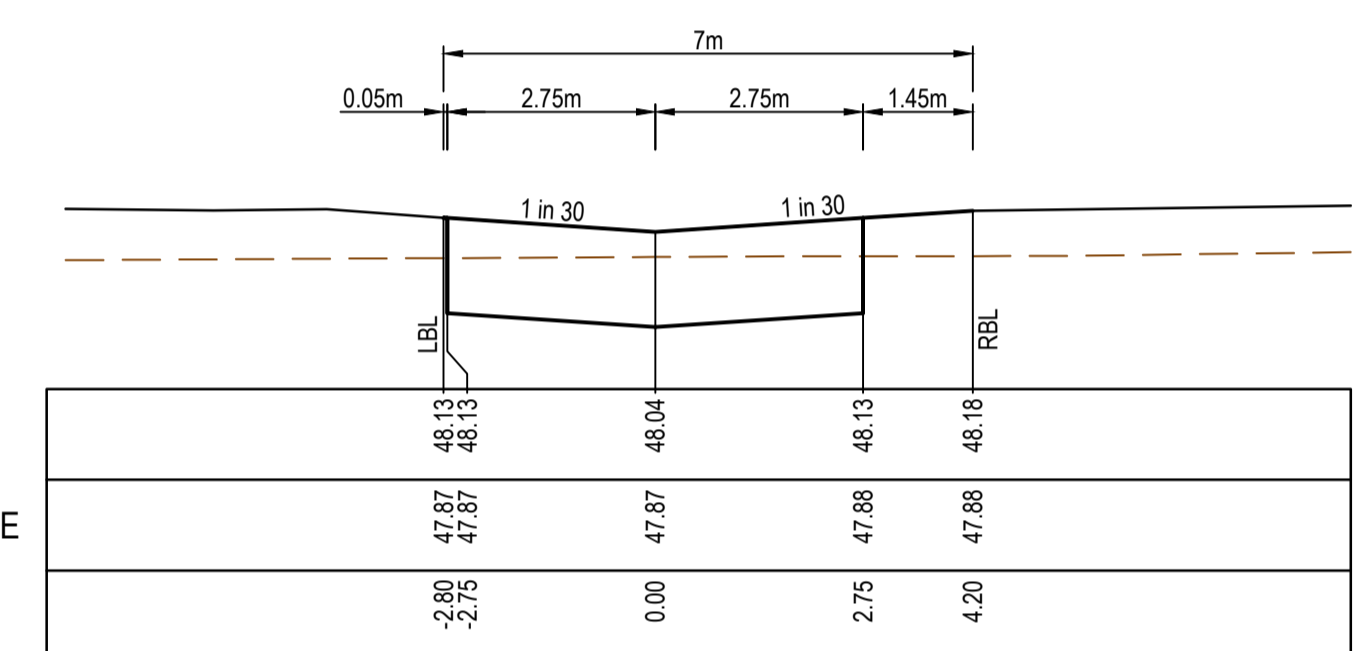


CH 236.81

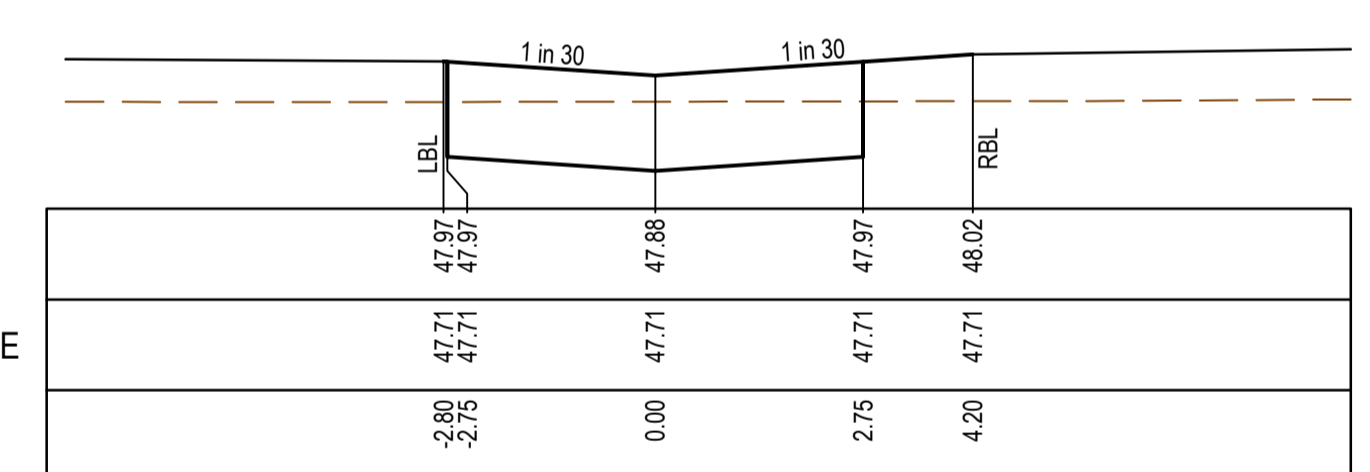


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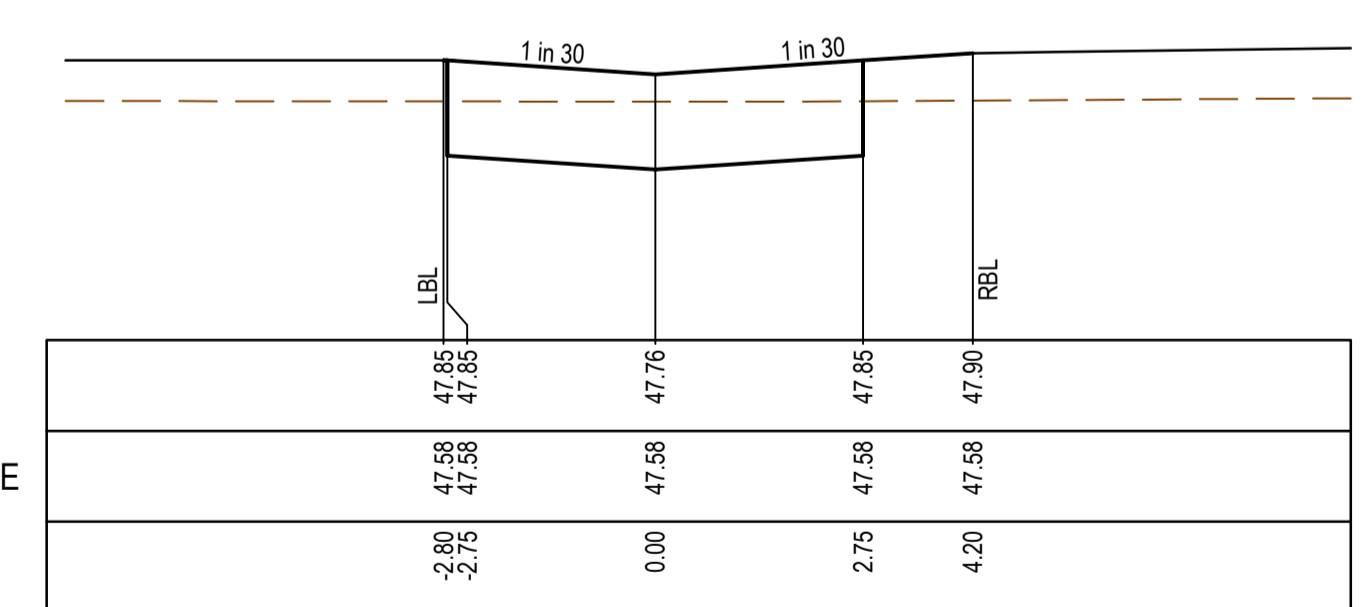
SOCIAL STREET



CH 54.15



CH 41.15



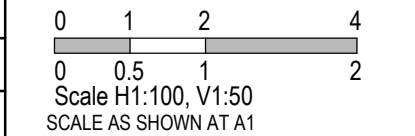
CH 31.15

FUN LANE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
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Quality Management ISO 9001	Site Management AS/NZS 1801	DRAFTER	J.Chen
Environmental Management ISO 14001	Global-Mark.com.au®	DESIGNER	S.Hossain
		CHECKED	E.Wang
		AUTHORISED	B.Sanderson
		REFERENCE No. 1	
		REFERENCE No. 2	



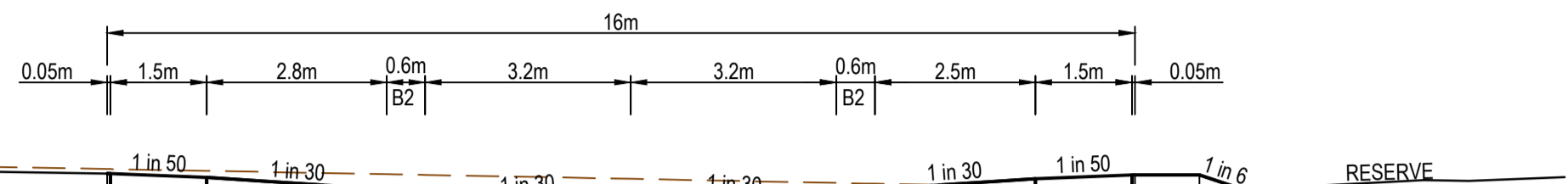
SMEC
Member of the **Surbana Jurong Group**
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

Marigold - Stage 4
Wyndham City Council
Road and Drainage
Cross Sections: Social Street
Ch 212.46 - Ch 236.26 & Fun Lane

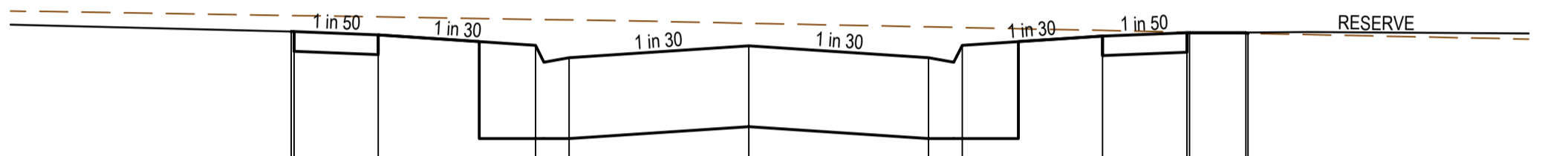
MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-14	SHEET No. 14 of 27	REVISION B
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STRUCTURAL FILL REQUIRED UNDER
PAVEMENT AND FOOTPATHS WHERE
CONSTRUCTED ABOVE EXISTING SURFACE



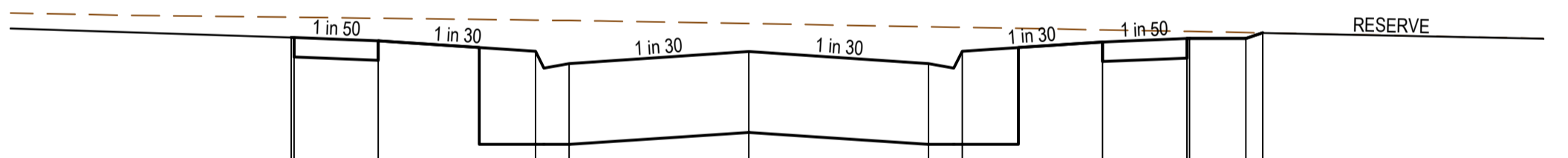
DATUM47.0										
DESIGN SURFACE	49.01	49.01	48.98	48.88	48.78	48.88	48.97	48.97	49.00	49.00
EXISTING SURFACE	49.05	49.05	49.04	49.01	49.00	48.78	48.97	48.94	48.90	48.90
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 63.65



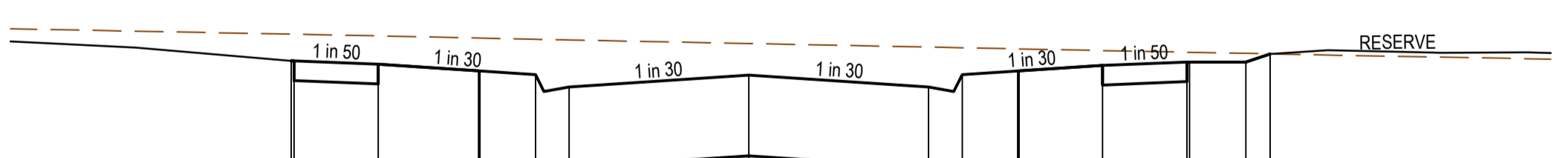
DATUM47.0										
DESIGN SURFACE	48.93	48.93	48.80	48.81	48.70	48.80	48.80	48.89	48.92	48.92
EXISTING SURFACE	49.07	49.07	49.06	49.04	49.03	49.00	49.00	48.97	48.92	48.92
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 46.65



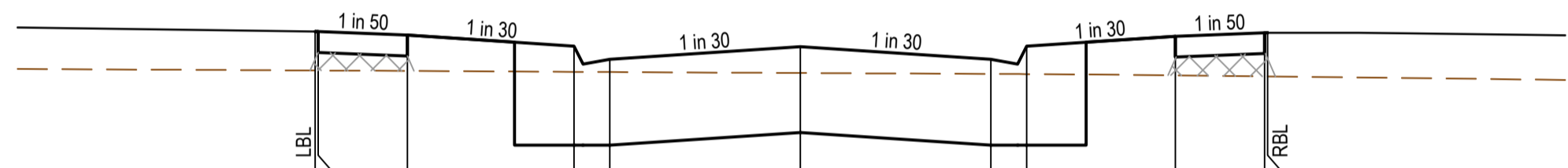
DATUM47.0										
DESIGN SURFACE	48.84	48.84	48.81	48.72	48.61	48.72	48.80	48.83	48.83	48.83
EXISTING SURFACE	49.02	49.02	49.02	49.00	49.00	48.97	48.97	48.90	48.90	48.90
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 29.65



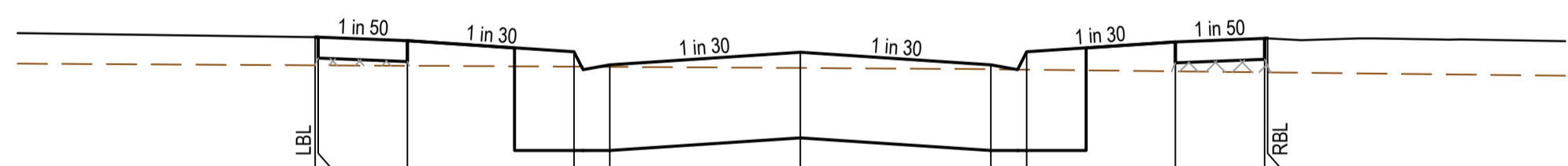
DATUM47.0										
DESIGN SURFACE	48.76	48.76	48.73	48.63	48.52	48.63	48.72	48.75	48.75	48.75
EXISTING SURFACE	48.99	48.99	48.98	48.95	48.94	48.91	48.88	48.83	48.83	48.83
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 11.80



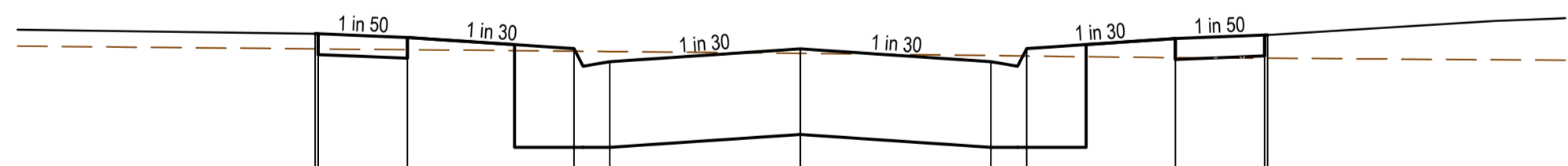
DATUM48.0										
DESIGN SURFACE	49.29	49.29	49.26	49.16	49.05	49.16	49.16	49.05	49.16	49.26
EXISTING SURFACE	48.96	48.96	48.96	48.95	48.95	48.94	48.94	48.93	48.93	48.91
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 118.15



DATUM48.0										
DESIGN SURFACE	49.22	49.22	49.19	49.10	48.99	49.10	49.10	48.99	49.10	49.21
EXISTING SURFACE	48.99	48.99	48.98	48.98	48.98	48.97	48.97	48.95	48.95	48.94
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

CH 105.65



DATUM47.0										
DESIGN SURFACE	49.10	49.10	49.07	48.98	48.87	48.97	48.97	48.87	48.98	49.06
EXISTING SURFACE	48.97	48.97	48.97	48.95	48.95	48.94	48.94	48.92	48.91	48.90
OFFSET	-8.15	-8.10	-6.60	-3.80	-3.20	0.00	3.20	3.80	6.30	7.80

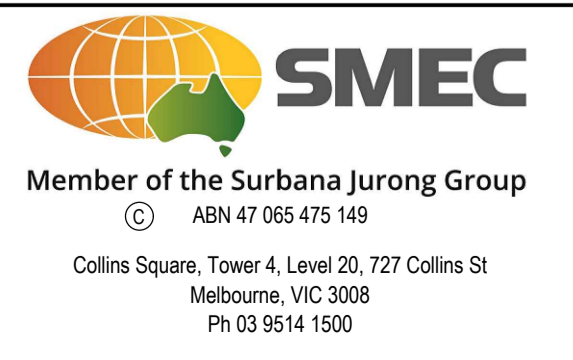
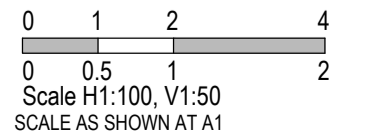
CH 80.65

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.19	COUNCIL COMMENTS	SH/LC	BS

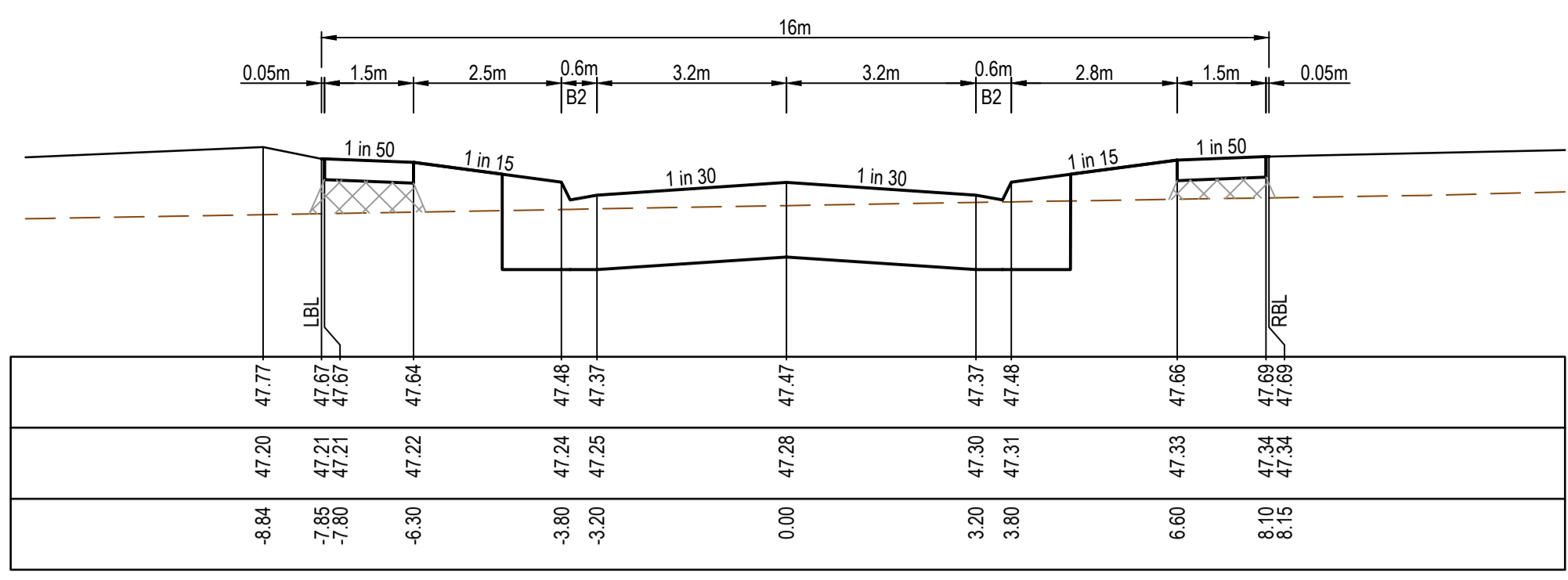
SUBJECT TO APPROVAL



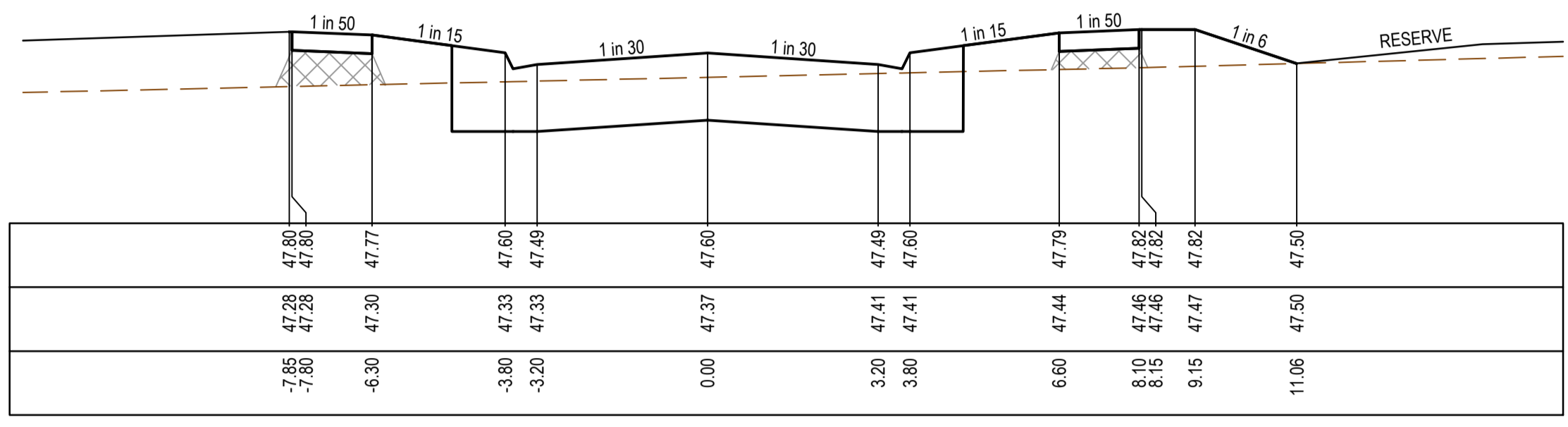
TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



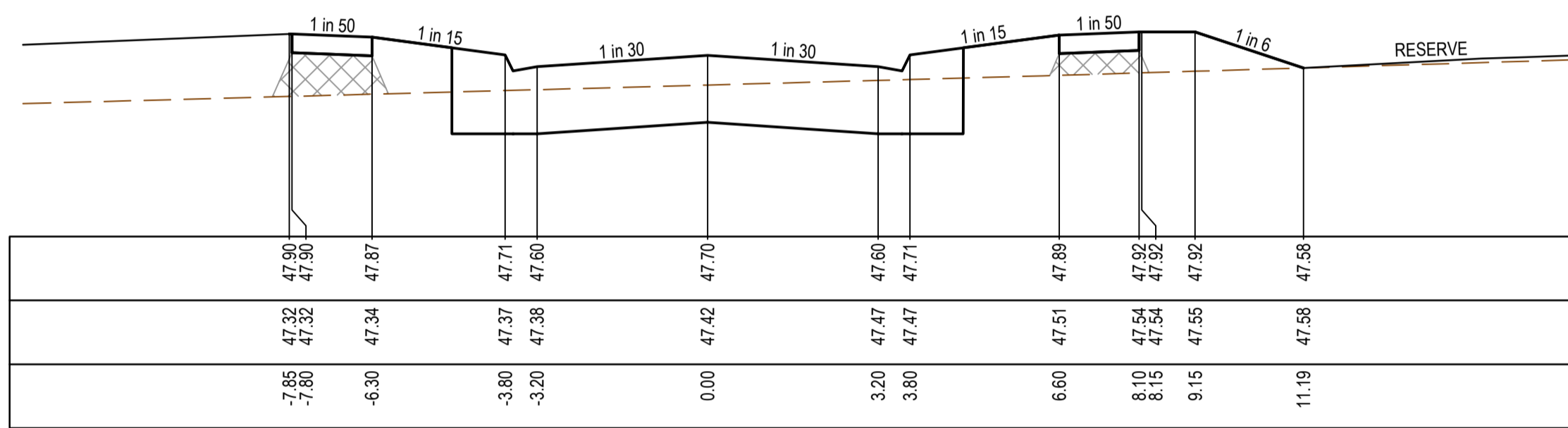
Marigold - Stage 4 Wyndham City Council Road and Drainage Cross Sections: Gathering Grove	
MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-15
SHEET No. 15 of 27	REVISION C



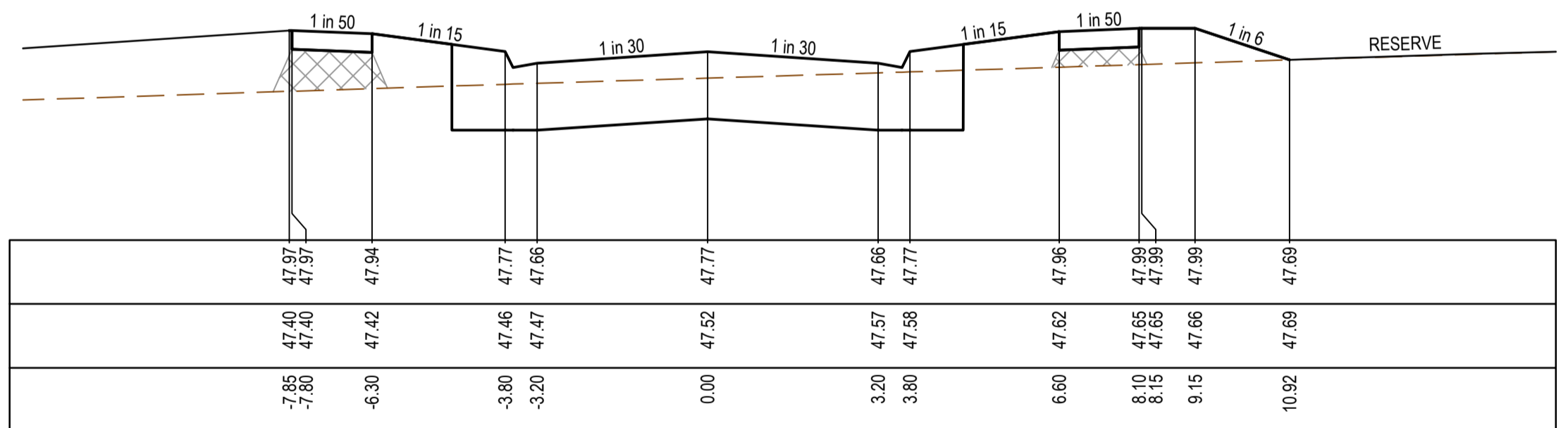
CH 100.35



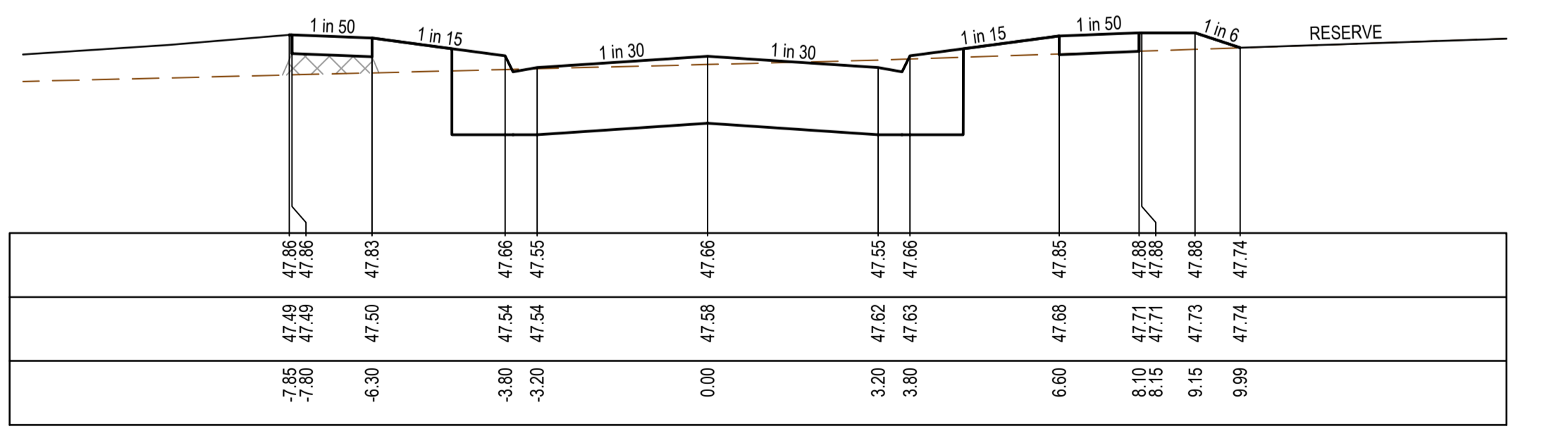
CH 75.35



CH 54.35



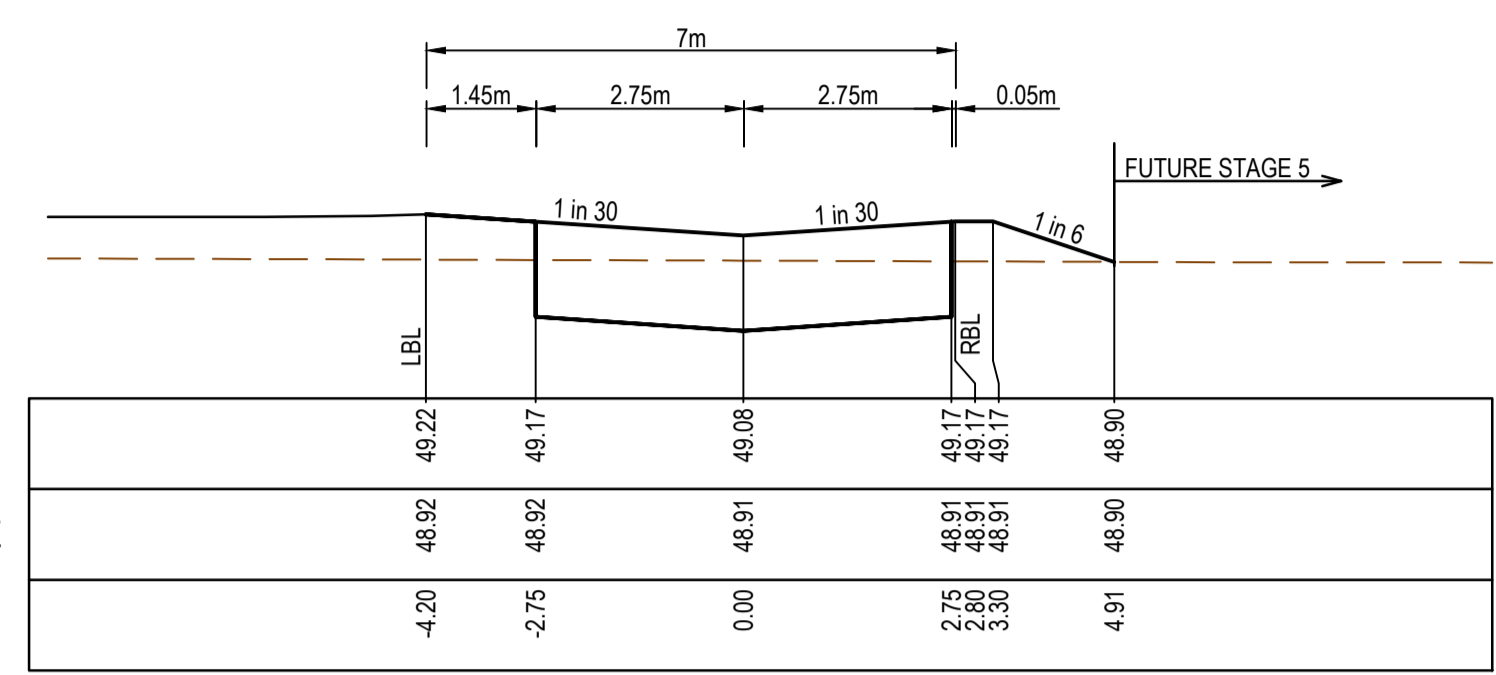
CH 33.35



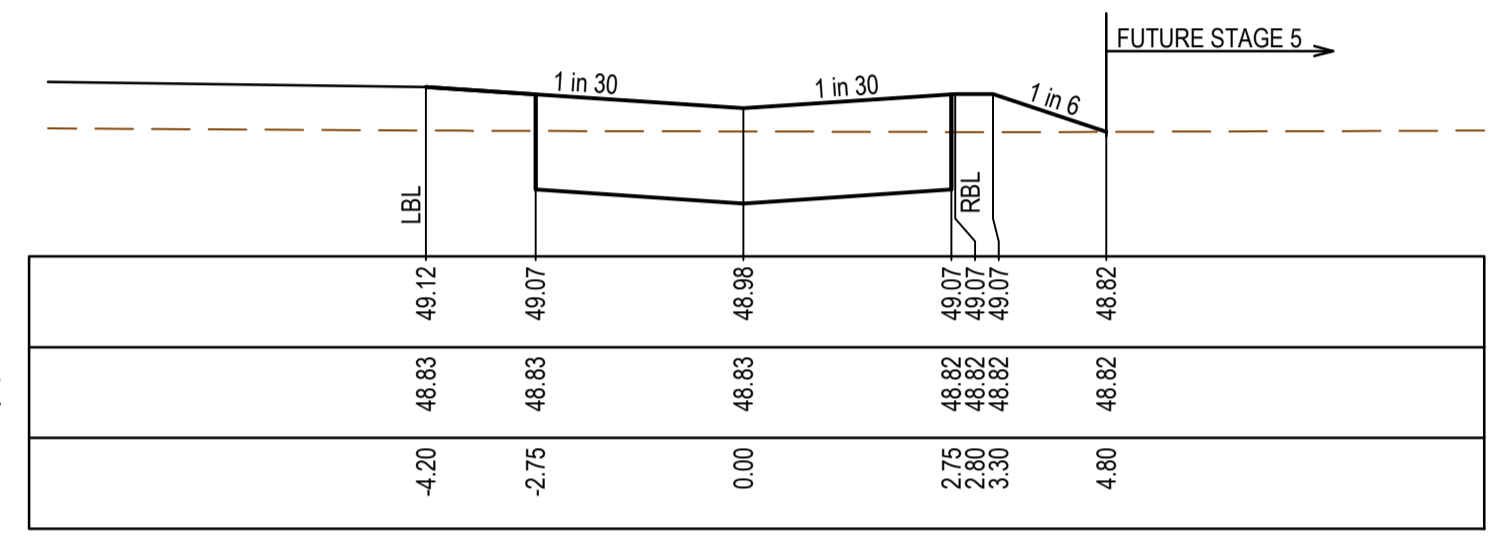
TPCH 11.80

KAREN STREET

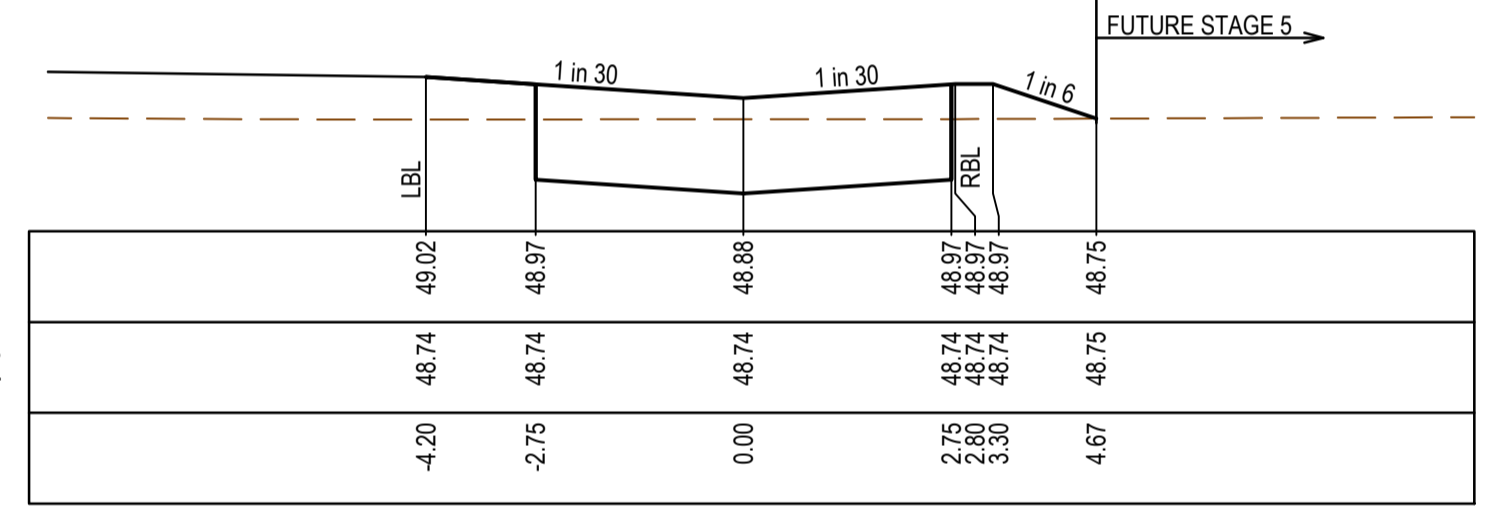
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



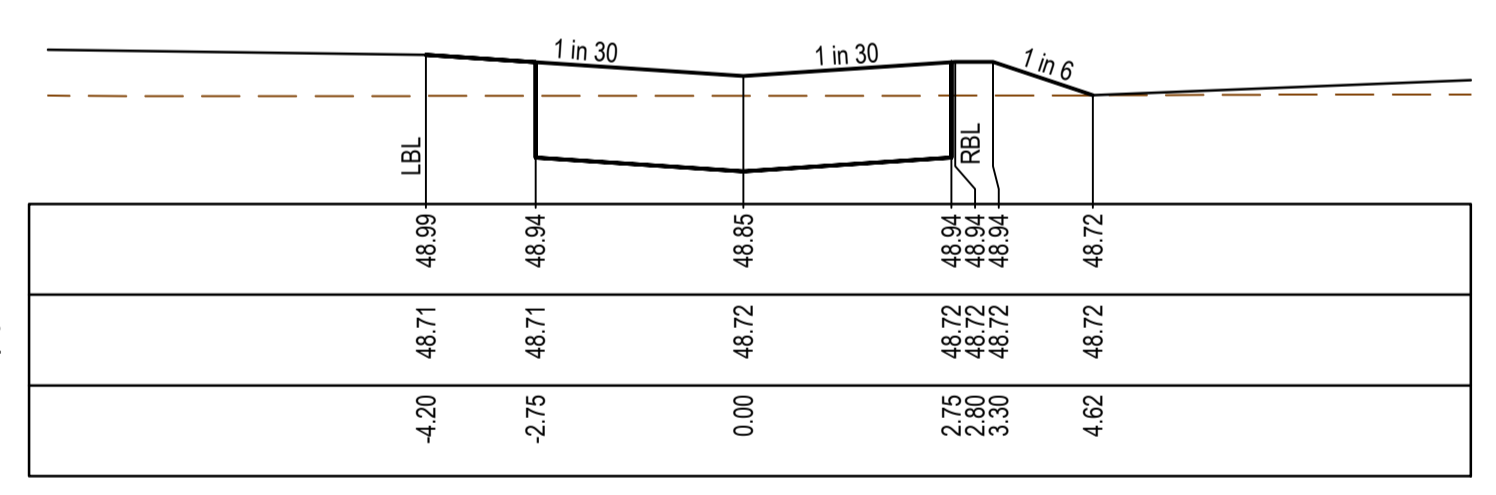
CH 61.15



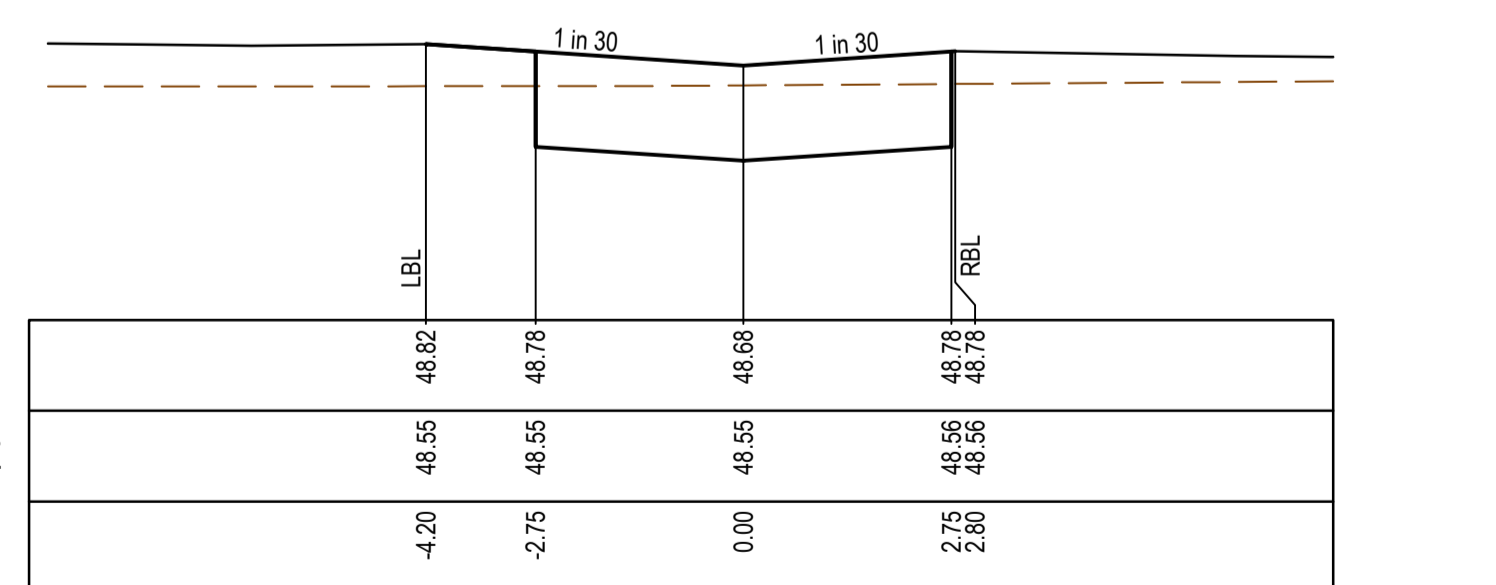
CH 48.65



CH 35.65



CH 31.15



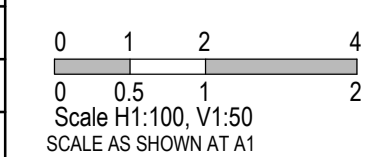
CH 10.15

PURE LANE

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.20	COUNCIL COMMENTS	SH/LC	BS

SUBJECT TO APPROVAL

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



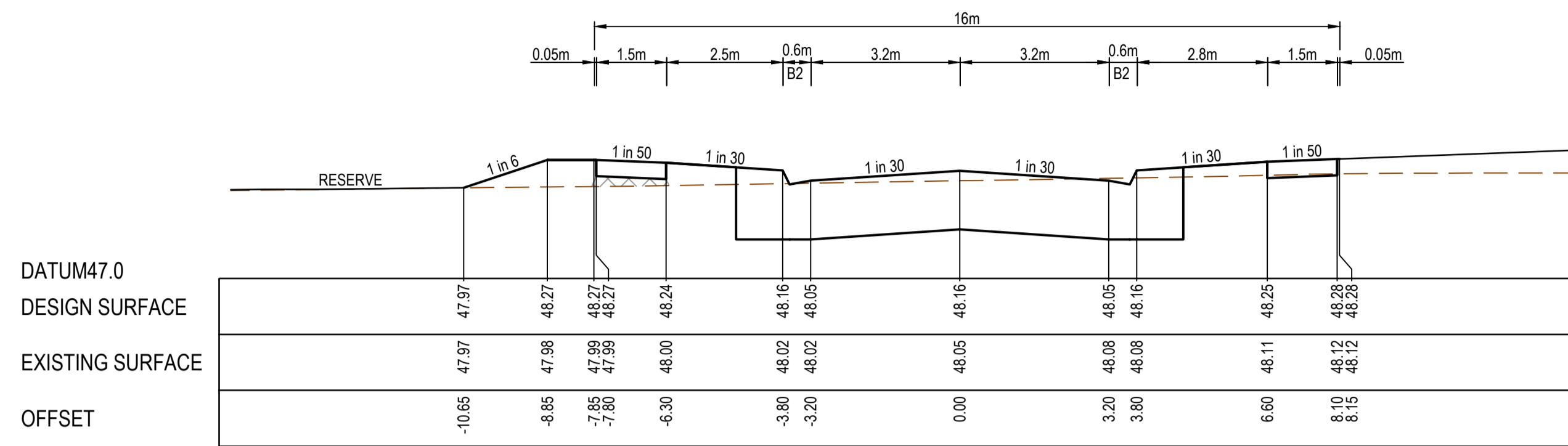
SMEC
Member of the Surlana Jurong Group
ABN 47 065 475 149
Collins Square, Tower 4, Level 20, 727 Collins St
Melbourne, VIC 3008
Ph 03 9514 1500

GROWLAND

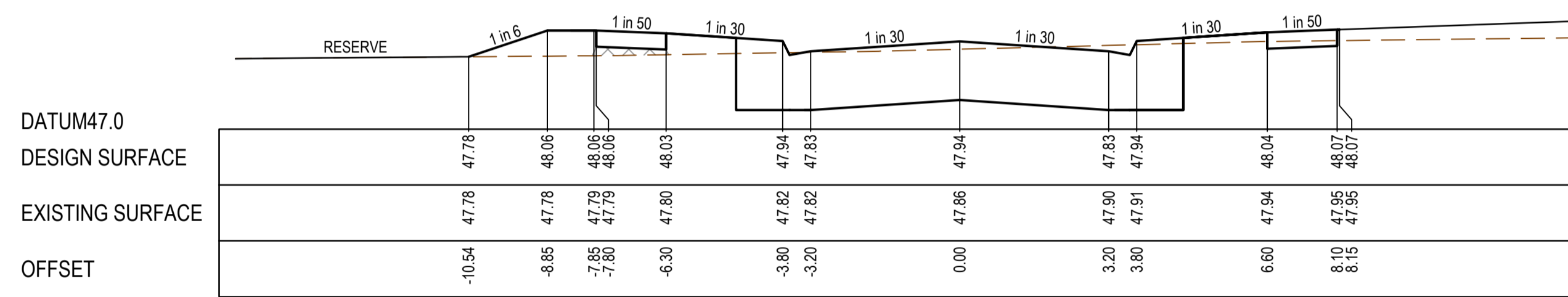
Marigold - Stage 4
Wyndham City Council
Road and Drainage
Cross Sections: Karen Street
& Pure Lane

MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-04-16	16 of 27	C

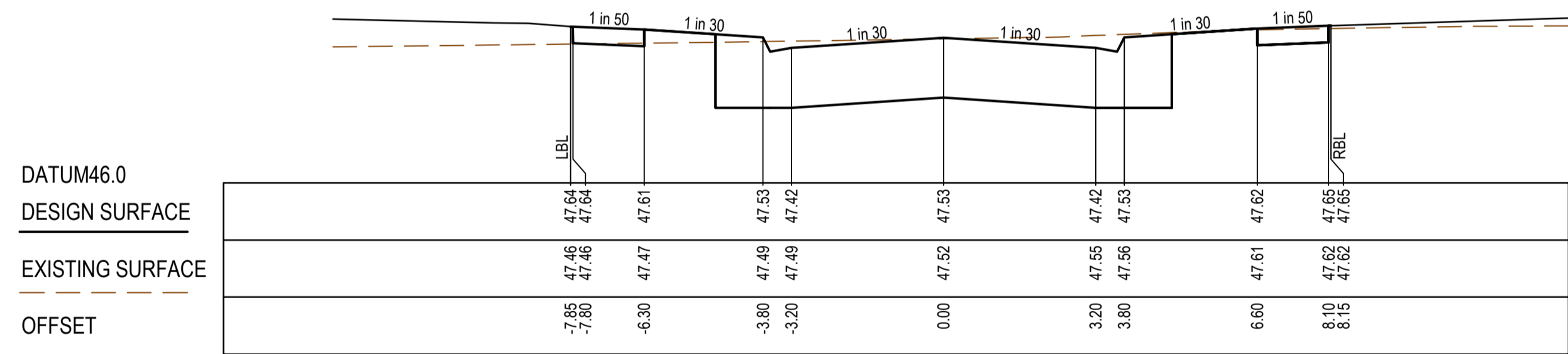
STRUCTURAL FILL REQUIRED UNDER PAVEMENT AND FOOTPATHS WHERE CONSTRUCTED ABOVE EXISTING SURFACE



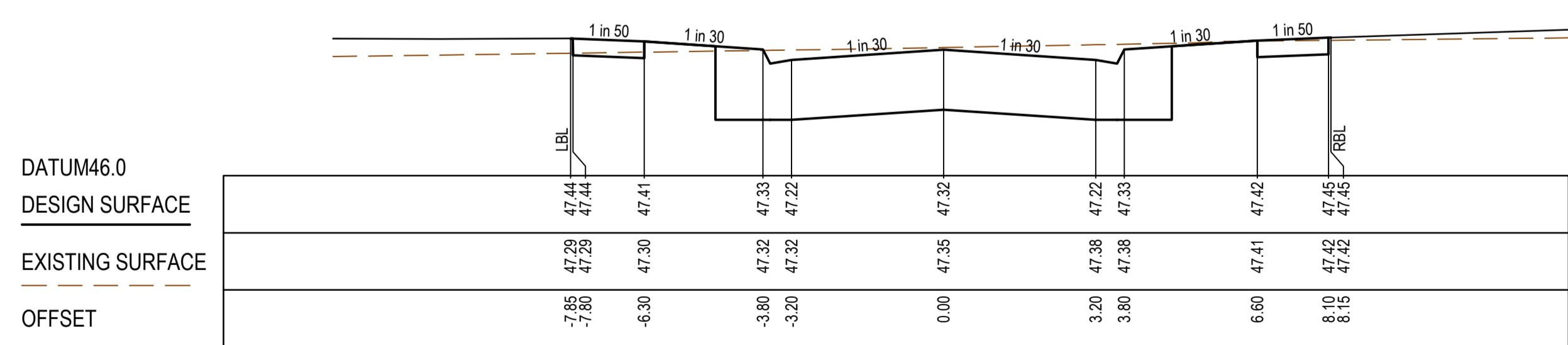
CH 181.46



LTPCH 169.76

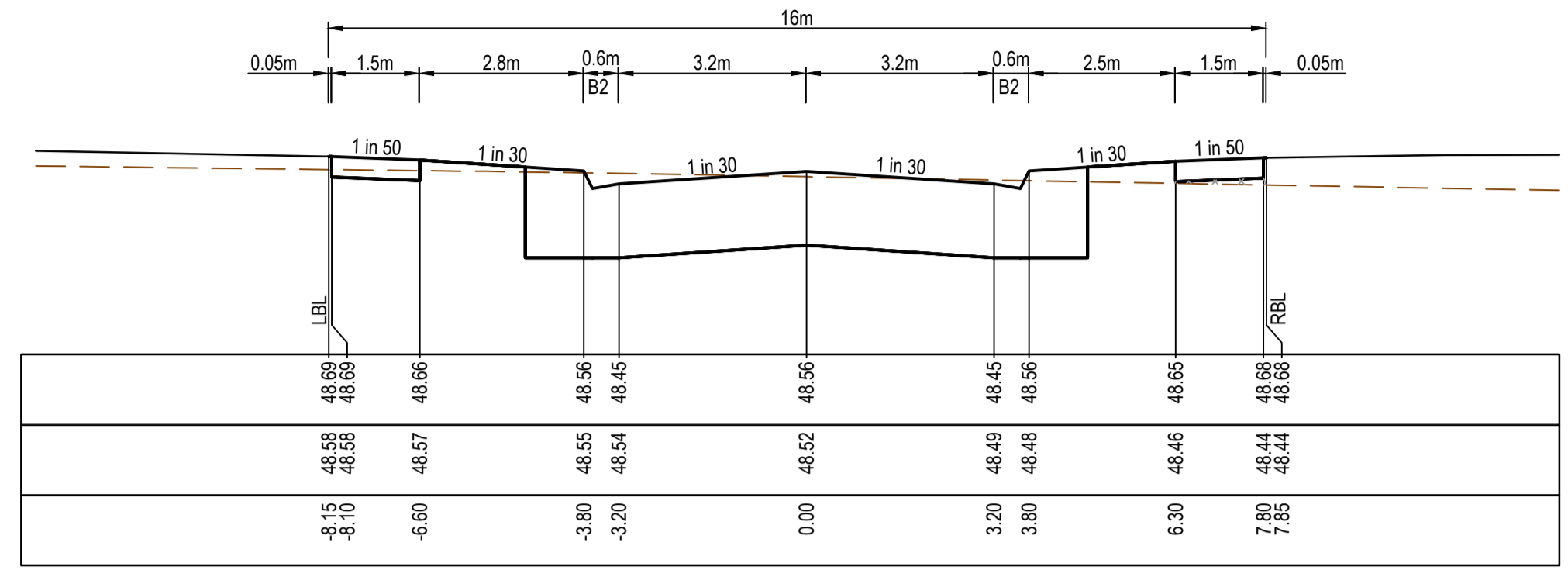


LTPCH 146.16

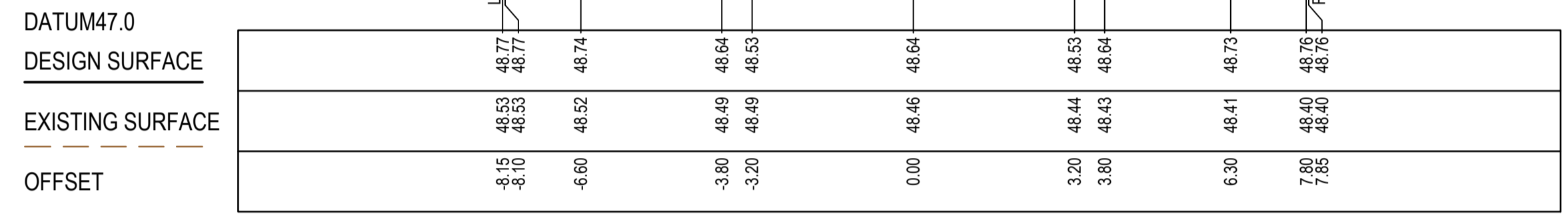


CH 133.96

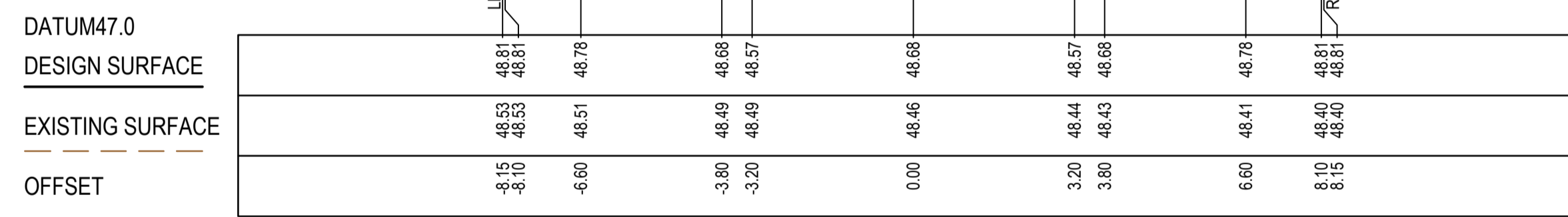
CHERISH DRIVE



CH 245.99

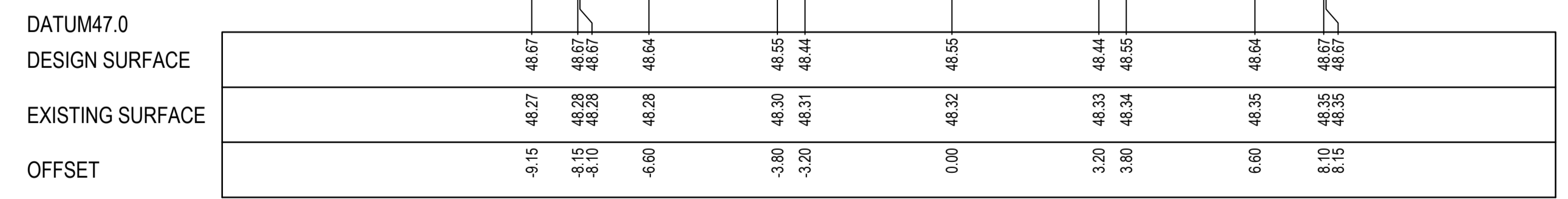


HPCH 230.33



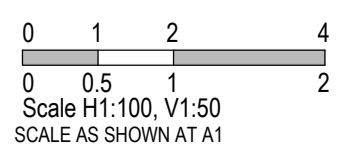
RTPCH 222.42

REJOICE STREET



RTPCH 202.51

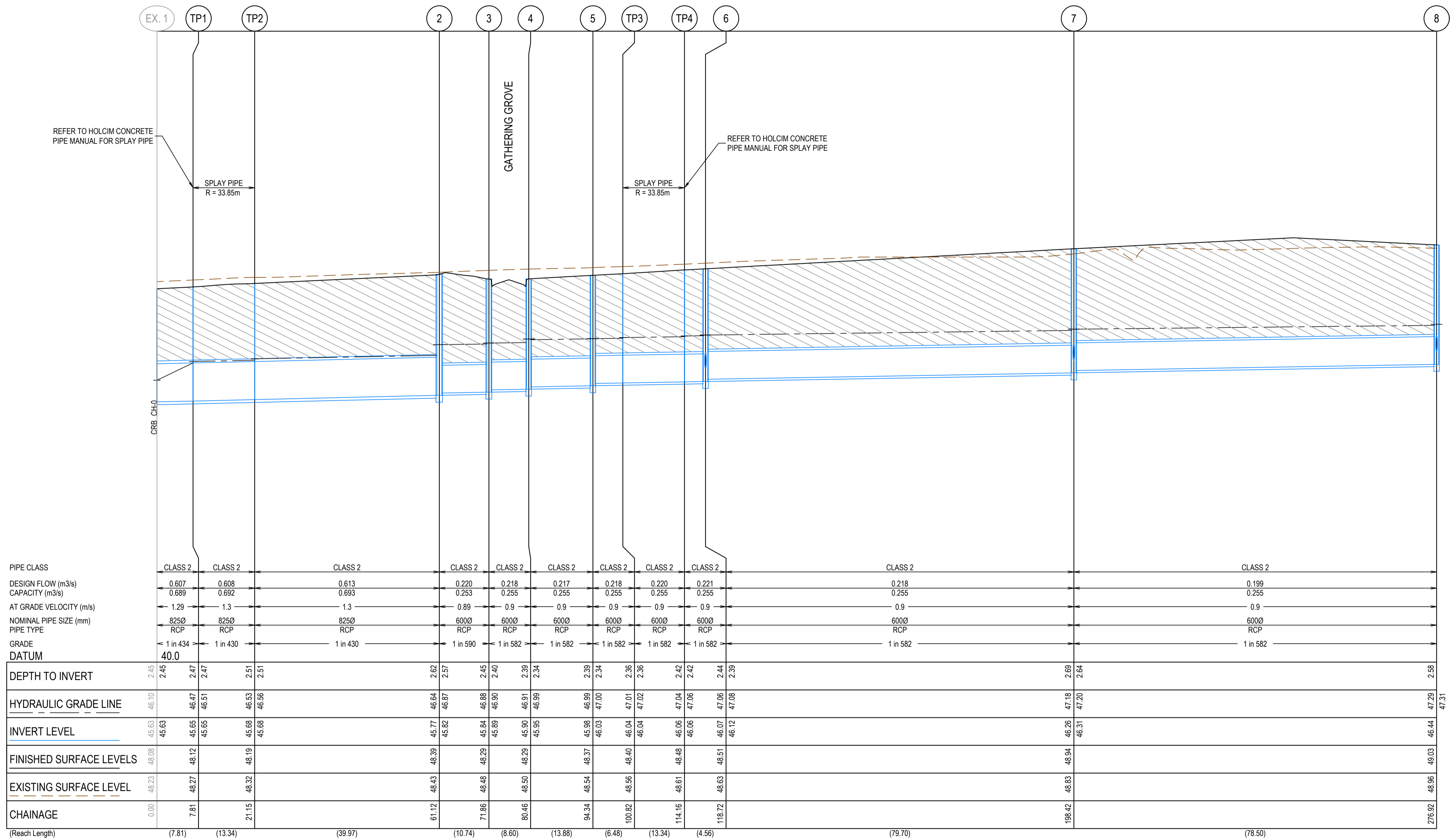
REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL	TITLE	NAME
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS	DRAFTER	J.Chen
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS	DESIGNER	S.Hossain
C	20.12.21	COUNCIL COMMENTS	SH/LC	BS	CHECKED	E.Wang
					AUTHORISED	B.Sanderson
					REFERENCE No. 1	
					REFERENCE No. 2	



Marigold - Stage 4
Wyndham City Council
Road and Drainage
Cross Sections: Cherish Drive
& Rejoice Street

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-17	SHEET No. 17 of 27	REVISION C
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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	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.22	COUNCIL COMMENTS	SH/LC	BS

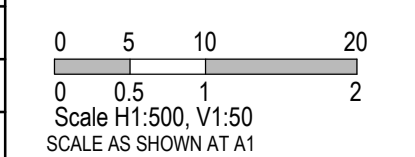
SUBJECT TO APPROVAL

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 1881
 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	



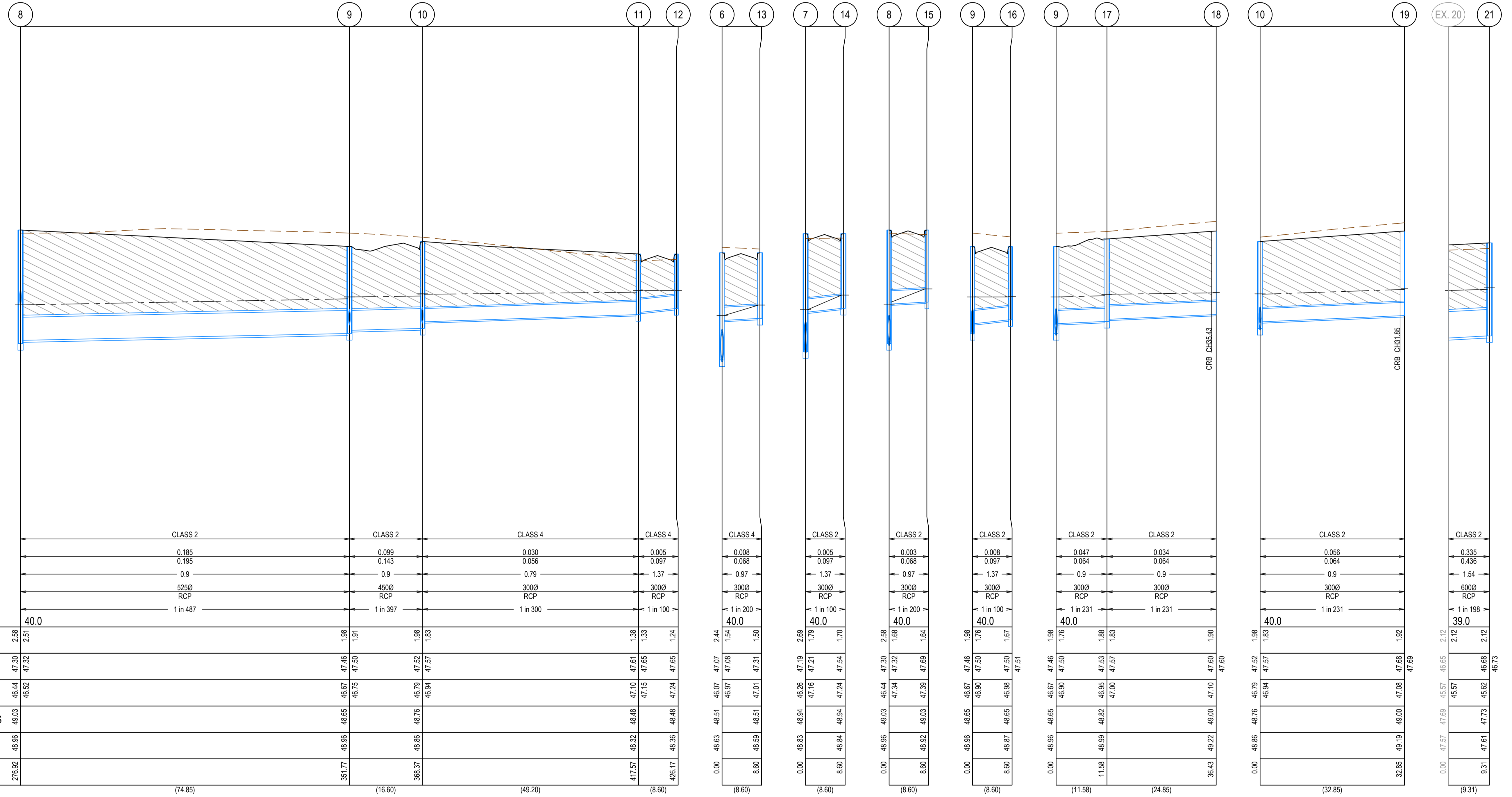
SMEC
 Member of the Surlana Jurong Group
 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 1

MELWAYS REF: 359 F9
 PROJECT / DRAWING No: 2360E-04-18
 SHEET No: 18 of 27
 REVISION: C

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

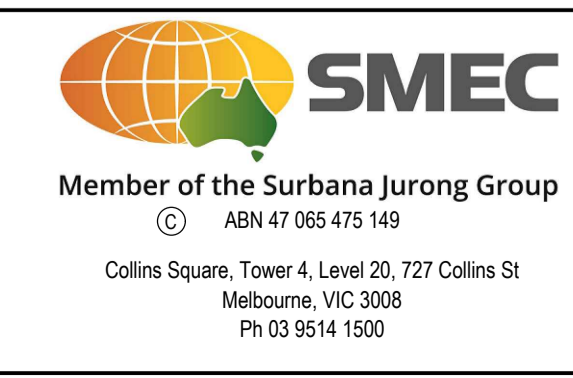
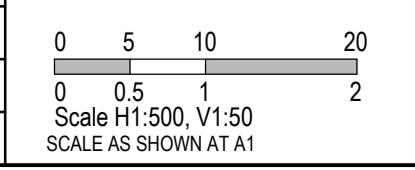


REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DR	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.23	COUNCIL COMMENTS	SH/LC	BS

SUBJECT TO APPROVAL



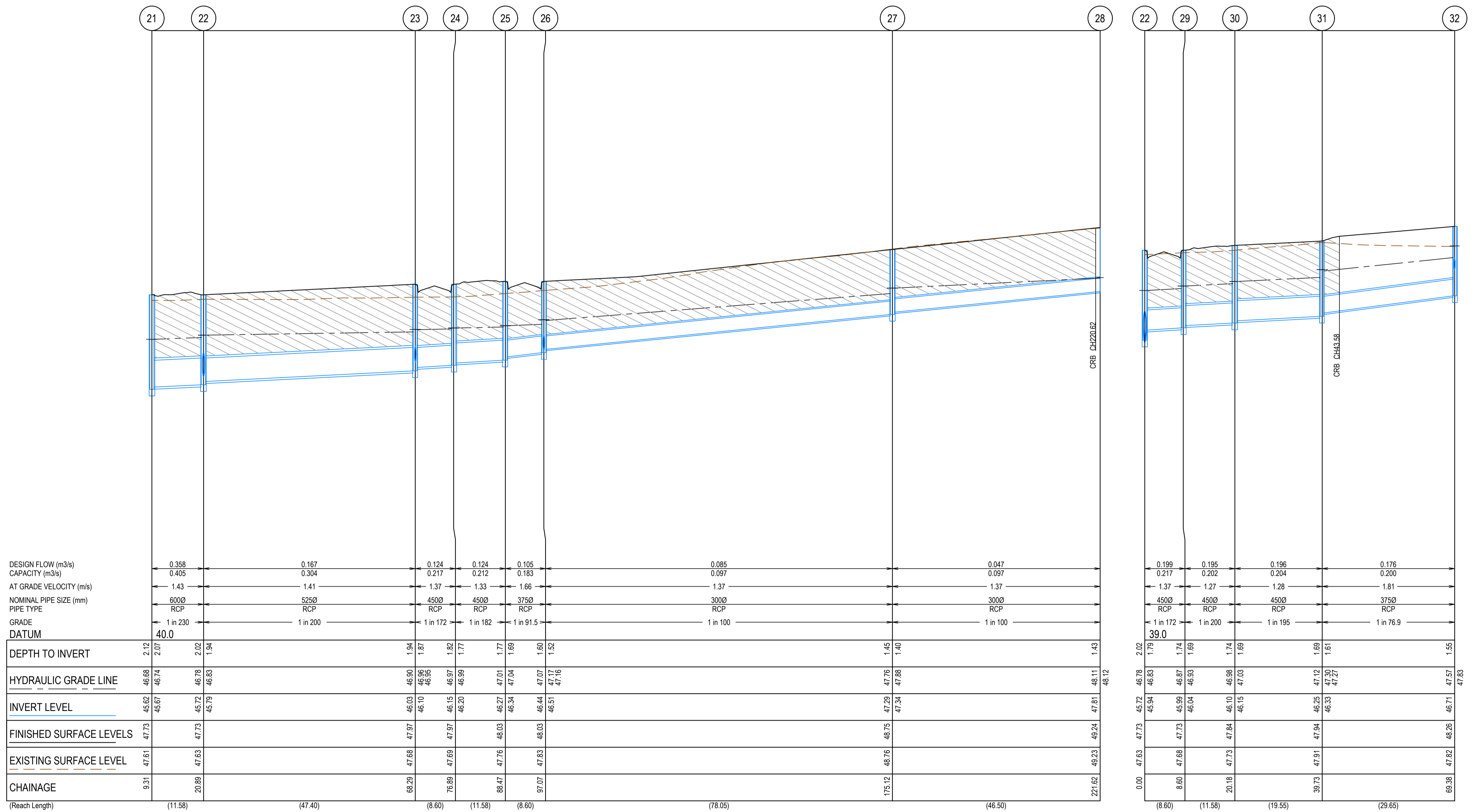
TITLE	NAME
DRAFTER	J.Chen
DESIGNER	S.Hossain
CHECKED	E.Wang
AUTHORISED	B.Sanderson
REFERENCE No. 1	
REFERENCE No. 2	



Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Drainage Longitudinal Sections - 2

MELWAYS REF: 359 F9
 PROJECT / DRAWING No: 2360E-04-19
 SHEET No: 19 of 27
 REVISION: C

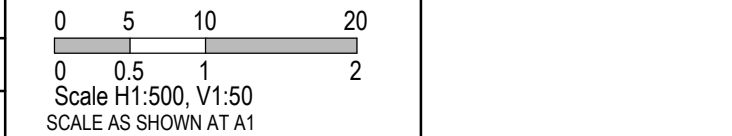
CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.24	COUNCIL COMMENTS	SH/LC	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	



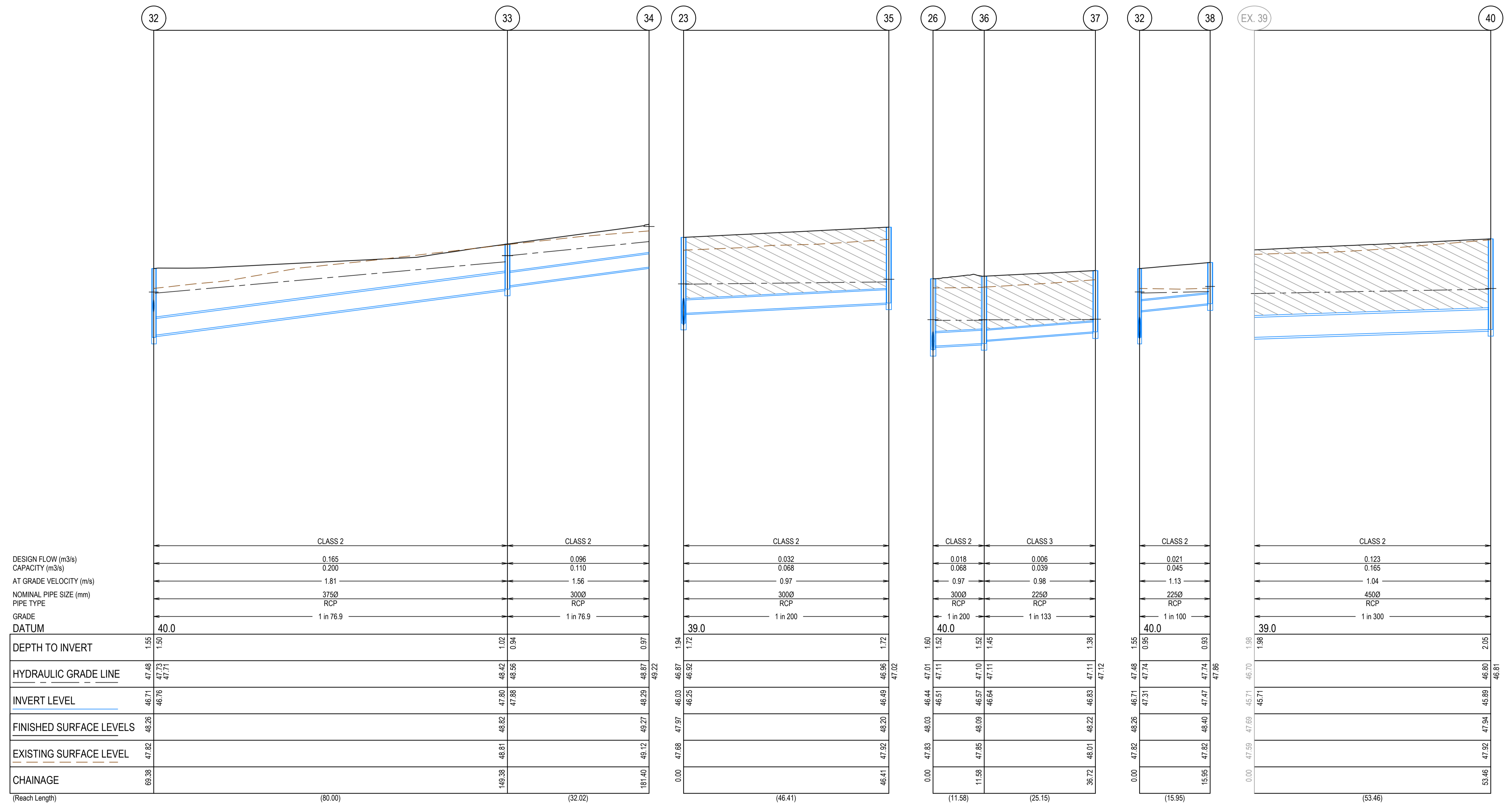
SMEC
 Member of the **Surbana Jurong Group**
 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

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

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-20	SHEET No. 20 of 27	REVISION C
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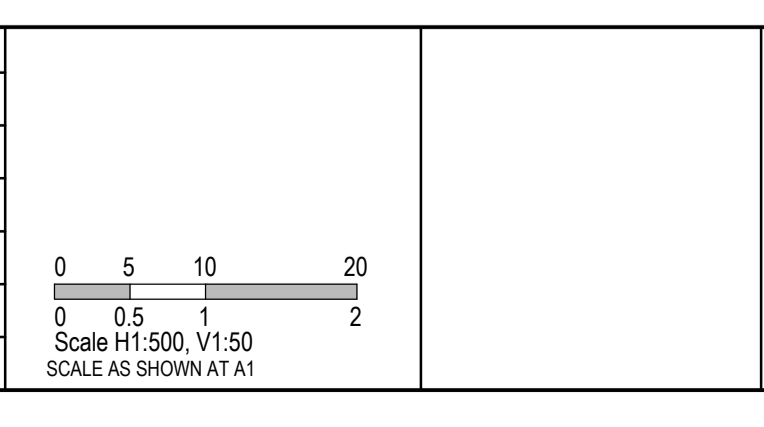
CRUSHED ROCK BACKFILL
 CRB INDICATES CRUSHED ROCK BACKFILL COMPACTED IN ACCORDANCE WITH WYNDHAM CITY COUNCIL STANDARDS & SPECIFICATION CLASS 2 UNDER ROAD PAVEMENT & CLASS 3 BEHIND KERB



REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DT	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.25	COUNCIL COMMENTS	SH/LC	BS

SUBJECT TO APPROVAL

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



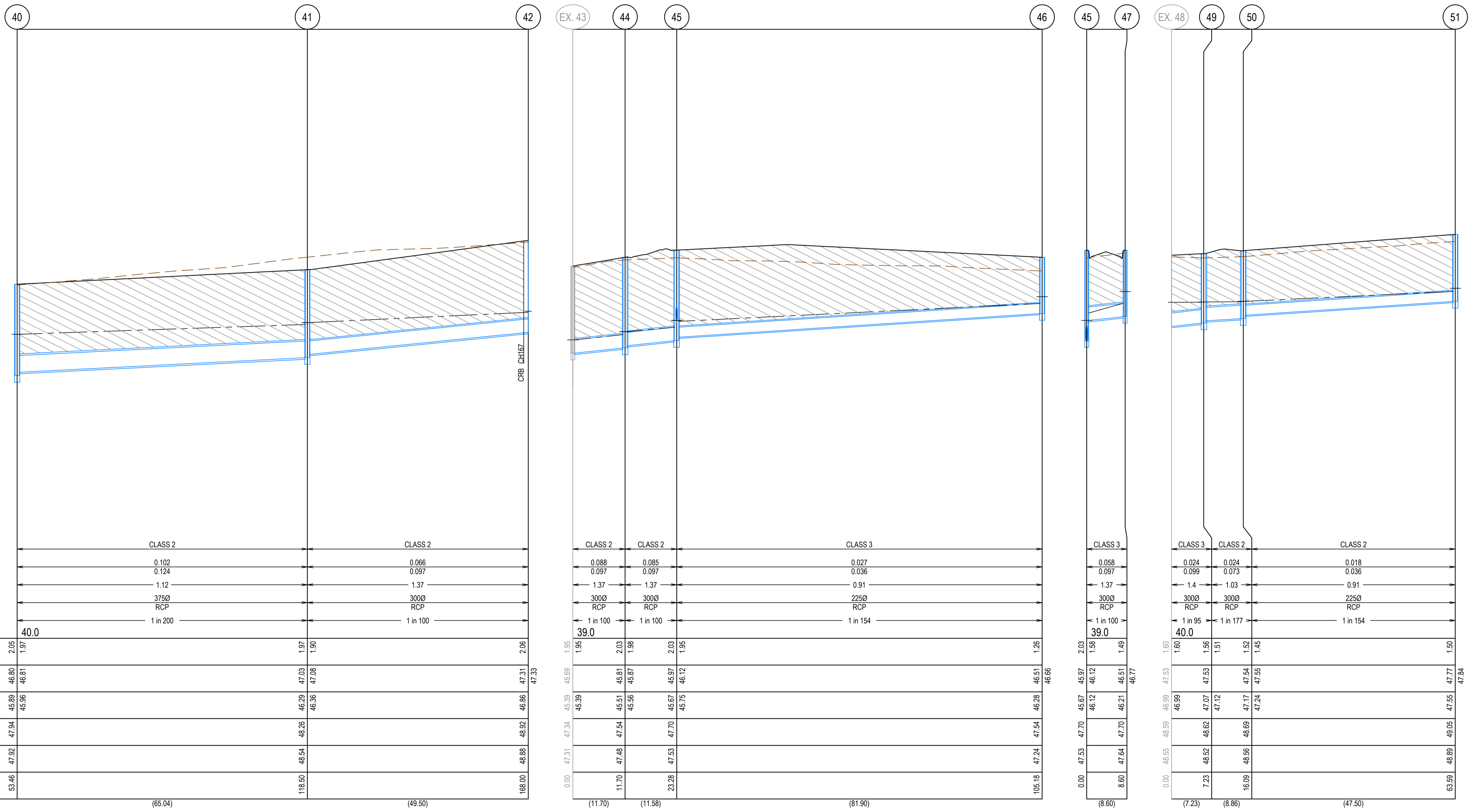
SMEC
 Member of the Surlana Jurong Group
 ABN 47 065 475 149
 Collins Square, Tower 4, Level 20, 727 Collins St
 Melbourne, VIC 3008
 Ph 03 9514 1500

GROWLAND

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

MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-21	SHEET No. 21 of 27	REVISION C
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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



	CLASS 2	CLASS 2
DESIGN FLOW (m ³ /s)	0.102	0.066
CAPACITY (m ³ /s)	0.124	0.097
AT GRADE VELOCITY (m/s)	1.12	1.37
NOMINAL PIPE SIZE (mm)	375Ø	300Ø
PIPE TYPE	RCP	RCP
GRADE	1 in 200	1 in 100
DATUM	40.0	
DEPTH TO INVERT	2.05 1.97	
HYDRAULIC GRADE LINE	46.80 46.81	47.03 47.08
INVERT LEVEL	45.89 45.96	46.29 46.36
FINISHED SURFACE LEVELS	47.94	48.26
EXISTING SURFACE LEVEL	47.92	48.54
CHAINAGE	53.46	116.50
(Reach Length)	(65.04)	(49.50)

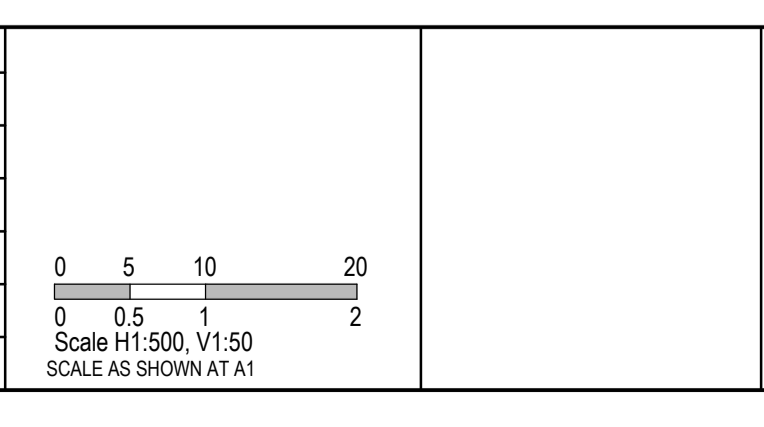
	CLASS 2	CLASS 2	CLASS 3
DESIGN FLOW (m ³ /s)	0.088	0.085	0.027
CAPACITY (m ³ /s)	0.097	0.097	0.036
AT GRADE VELOCITY (m/s)	1.37	1.37	0.91
NOMINAL PIPE SIZE (mm)	300Ø	300Ø	225Ø
PIPE TYPE	RCP	RCP	RCP
GRADE	1 in 100	1 in 100	1 in 154
DATUM	39.0		
DEPTH TO INVERT	1.95	2.03	1.95
HYDRAULIC GRADE LINE	45.39 45.39	45.81 45.87	45.97 46.12
INVERT LEVEL	45.39	45.51 45.96	45.67 45.75
FINISHED SURFACE LEVELS	47.34	47.54	47.70
EXISTING SURFACE LEVEL	47.31	47.48	47.53
CHAINAGE	0.00	11.70	22.28
(Reach Length)	(11.70)	(11.58)	(81.90)

	CLASS 3	CLASS 2	CLASS 2
DESIGN FLOW (m ³ /s)	0.058	0.024	0.018
CAPACITY (m ³ /s)	0.097	0.073	0.036
AT GRADE VELOCITY (m/s)	1.37	1.03	0.91
NOMINAL PIPE SIZE (mm)	300Ø	300Ø	225Ø
PIPE TYPE	RCP	RCP	RCP
GRADE	1 in 100	1 in 177	1 in 154
DATUM	39.0		
DEPTH TO INVERT	2.03	1.51	1.45
HYDRAULIC GRADE LINE	46.12 46.12	47.07 47.12	47.54 47.55
INVERT LEVEL	46.12	47.07 47.12	47.17 47.24
FINISHED SURFACE LEVELS	47.70	48.02	48.09
EXISTING SURFACE LEVEL	47.64	48.52	48.56
CHAINAGE	8.60	7.23	16.09
(Reach Length)	(8.60)	(7.23)	(8.86)

REV	DATE	AMENDMENT / REVISION DESCRIPTION	DES/DF	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.26	COUNCIL COMMENTS	SH/LC	BS

SUBJECT TO APPROVAL

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



Marigold - Stage 4 Wyndham City Council Road and Drainage Drainage Longitudinal Sections - 5			
MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-22	SHEET No. 22 of 27	REVISION C

REFER BELOW LEFT FOR CONTINUATION

- 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.

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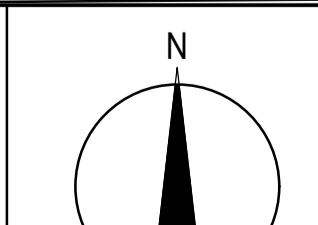
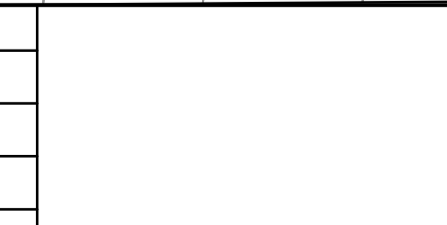


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REV	DATE	AMENDMENT / REVISION DESCRIPTION	DESIGN	APPROVAL
A	23.08.19	ISSUED FOR INFORMATION ONLY	SH/JC	BS
B	19.11.19	ISSUED TO COUNCIL FOR APPROVAL	SH/LC	BS
C	20.12.28	COUNCIL COMMENTS	SH/LC	BS

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



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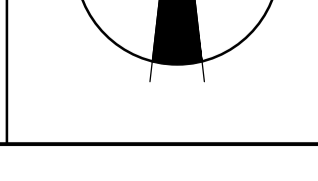
GROWLAND

Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Signage & Linemarking Plan

SUBJECT TO APPROVAL



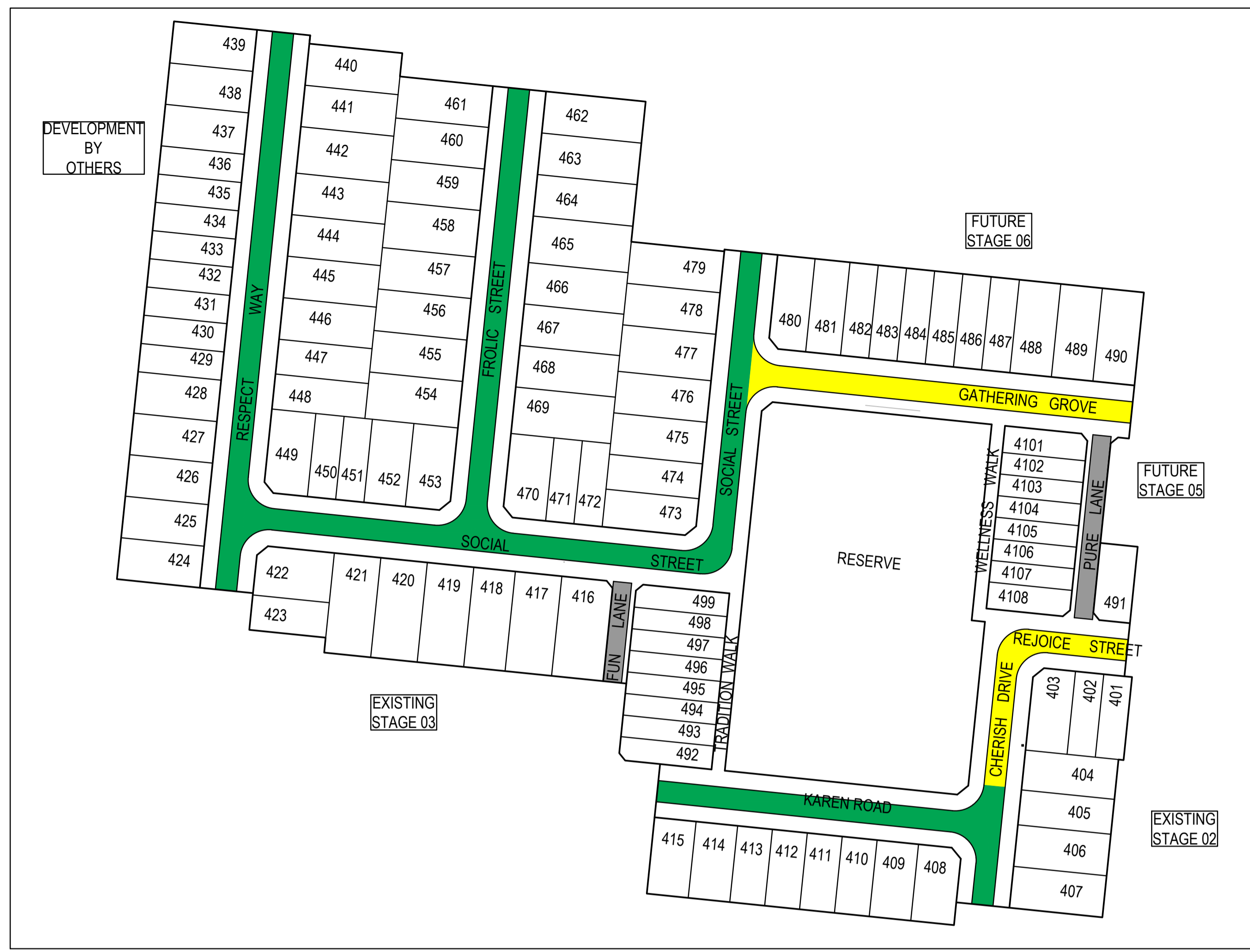
SCALE AS SHOWN AT 1



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GROWLAND

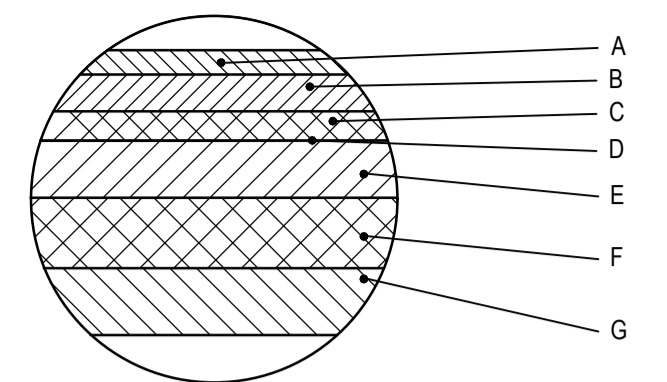
MELWAYS REF	PROJECT / DRAWING No.	SHEET No.	REVISION
359 F9	2360E-04-24	24 of 27	C



PAVEMENT PLAN

625mm RESPECT WAY, FROLIC STREET, SOCIAL STREET, KAREN ROAD AND CHERISH DRIVE(LOT 405-407) PAVEMENT COMPOSITION (TYPE A)

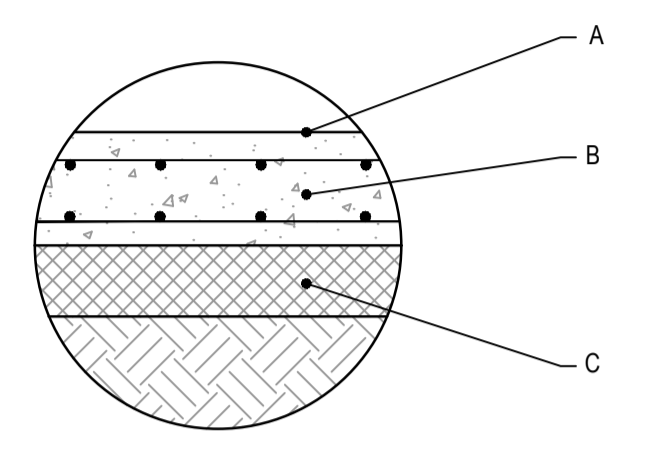
PAVEMENT LAYER	LAYER THICKNESS (mm)	MATERIAL
A WEARING COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
B BASE COURSE	30	SIZE 10 TYPE N ASPHALT, CLASS 320 BINDER
C SEALING LAYER	10	SIZE 10 SAMI S18RF
D BONDING LAYER		BITUMINOUS PRIME
E BASE	130	SIZE 20 CLASS 2 FCR, COMPACTED DEPTH, COMPACTED TO A MEAN 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. CAPPING LAYER TO BE COMPACTED IN 2 LAYERS



ASPHALT PAVEMENT COMPOSITION KEY DIAGRAM

720mm CHERISH DRIVE(RESERVE), REJOICE STREET AND GATHERING GROVE(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
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 AND COMPACTED 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 $k \leq 1 \times 10^{-9}$ m/s SUBGRADE (DESIGN CBR 2%), COMPACTED TO A MINIMUM DENSITY RATIO OF 98% (STANDARD) MAXIMUM DRY DENSITY AS1289.5.1.1. CAPPING LAYER TO BE COMPACTED IN 2 LAYERS

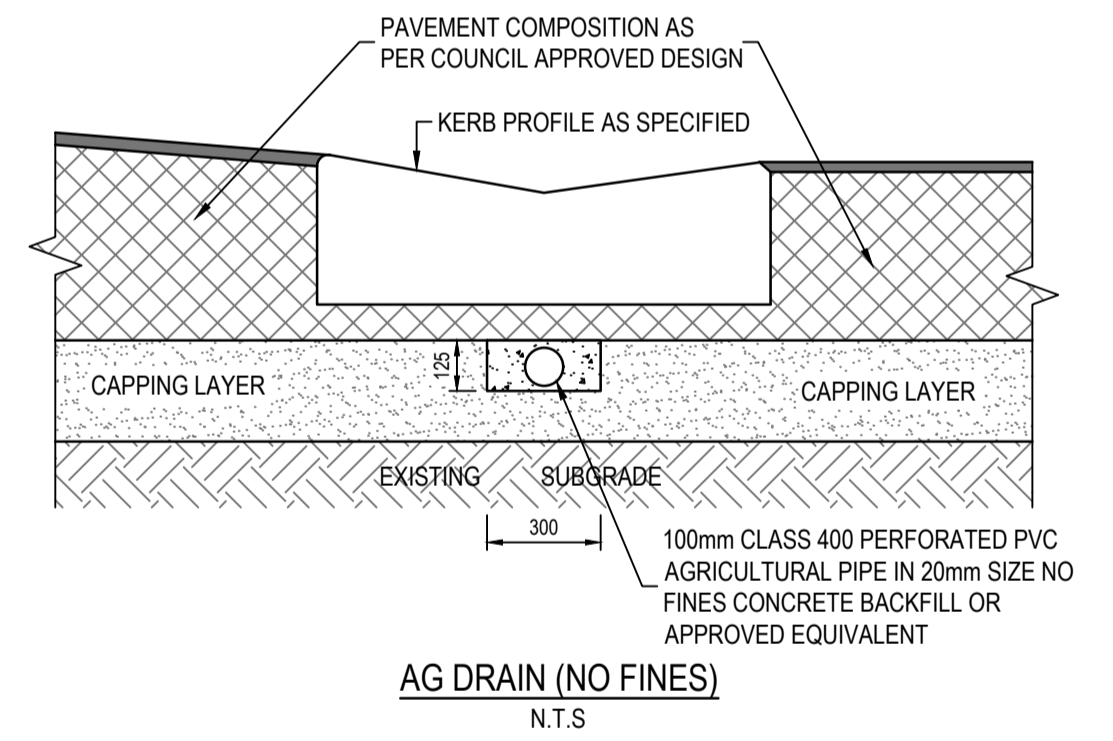
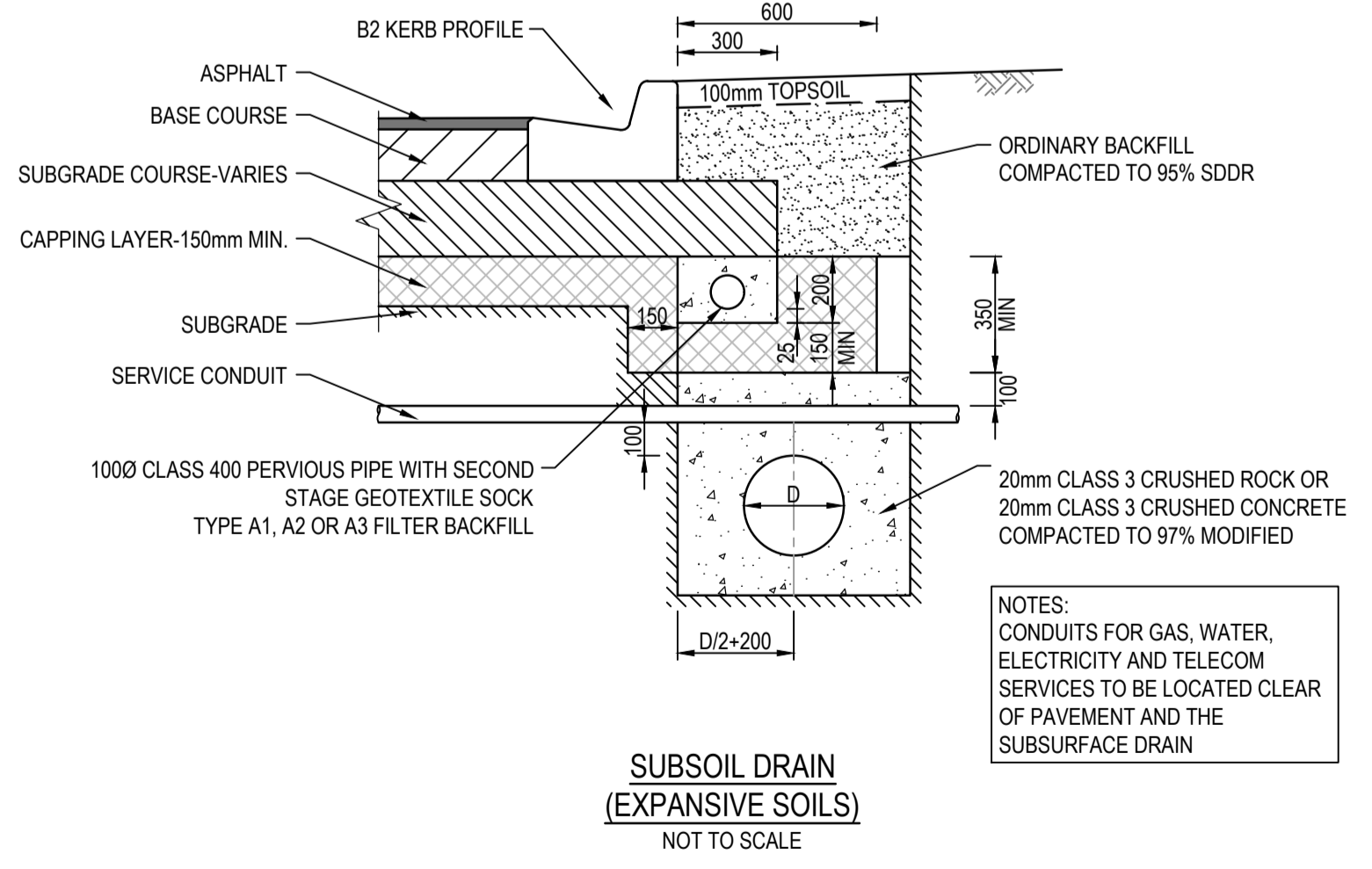


CONCRETE ROAD PAVEMENT COMPOSITION KEY DIAGRAM

400mm FUN LANE AND PURE 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.



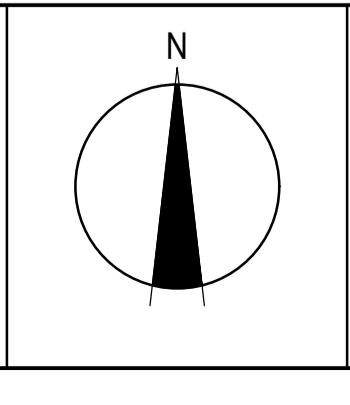
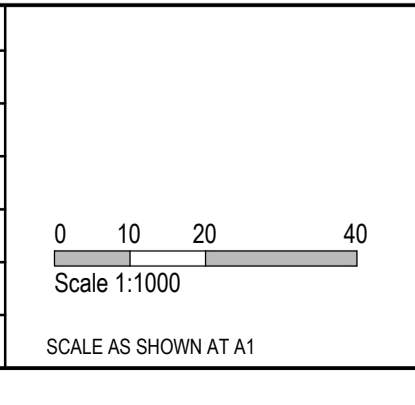
PAVEMENT NOTE
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C	20.12.29	COUNCIL COMMENTS	SH/LC	BS

SUBJECT TO APPROVAL

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

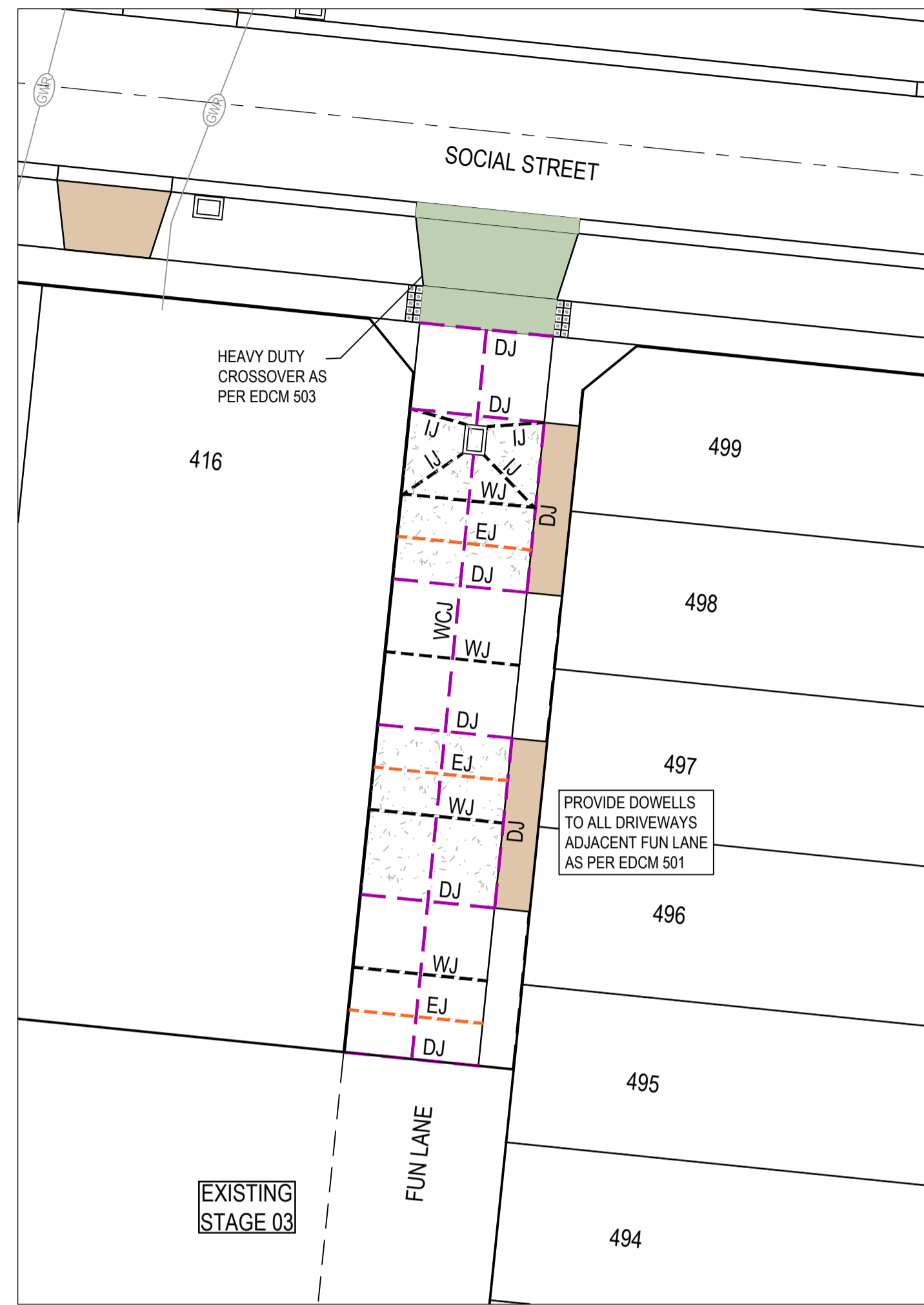


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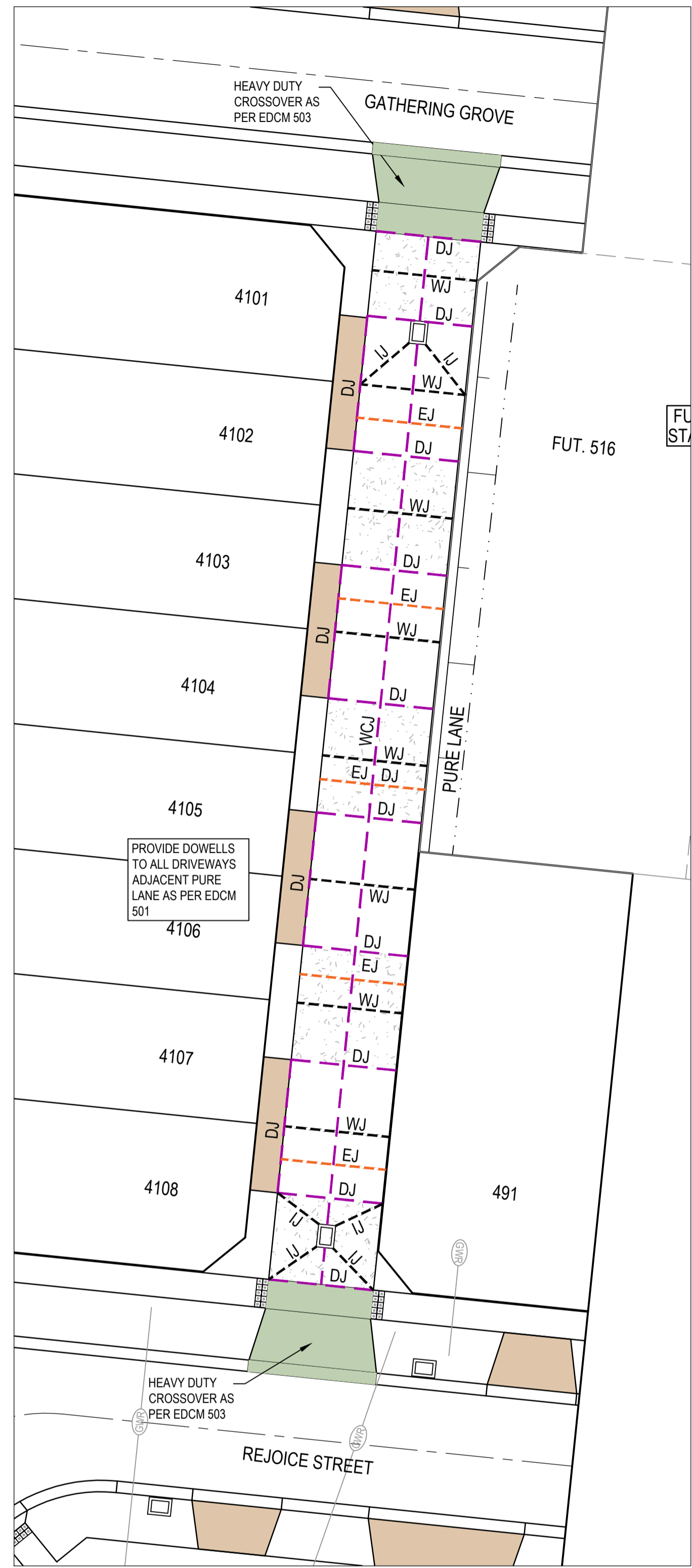
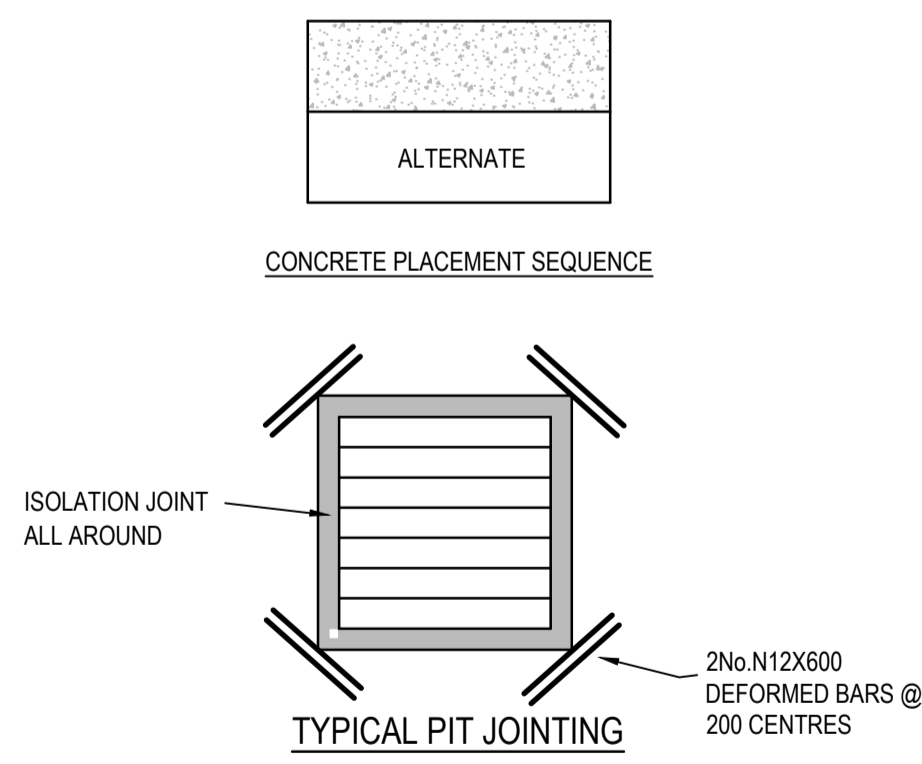
GROWLAND

Marigold - Stage 4 Wyndham City Council Road and Drainage Pavement Details		MELWAYS REF 359 F9	PROJECT / DRAWING No. 2360E-04-25	SHEET No. 25 of 27	REVISION C
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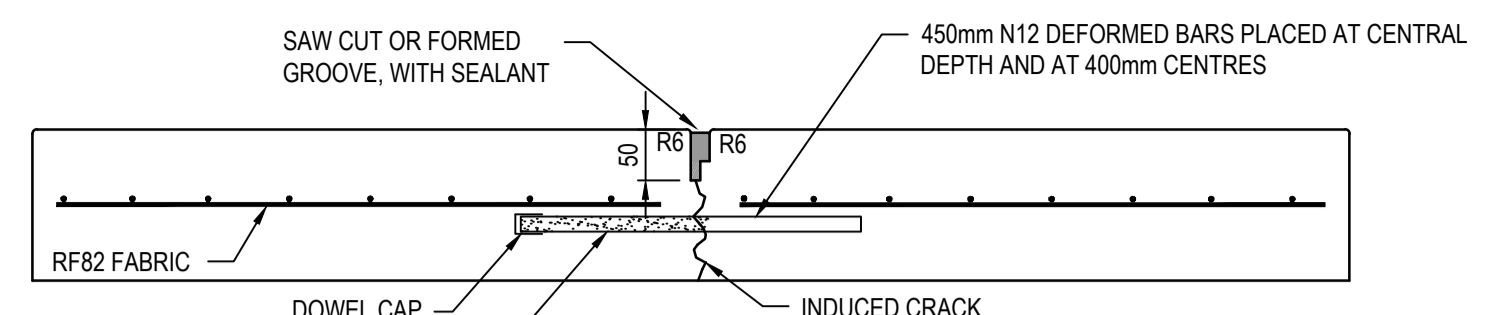
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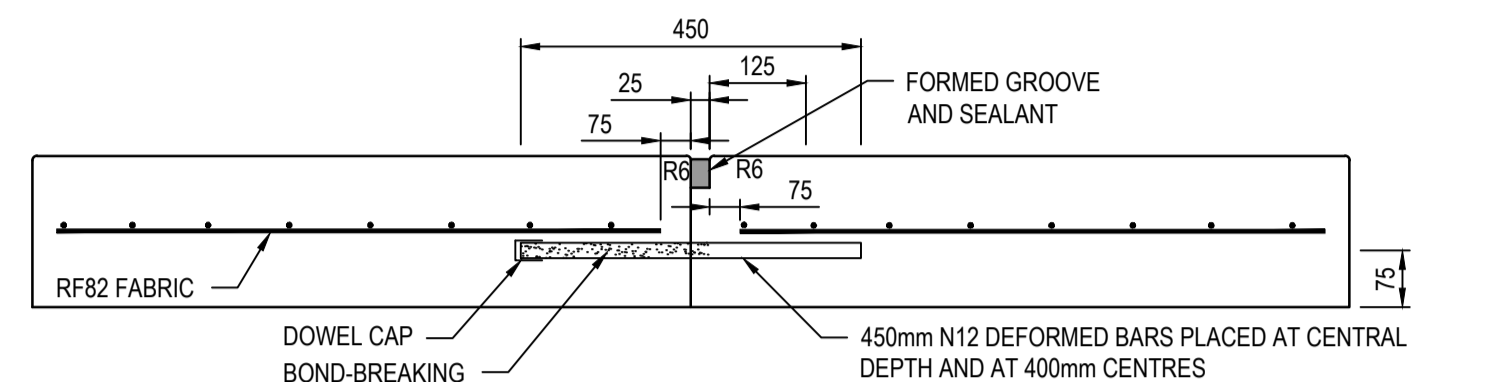
FUN LANE CONCRETE JOINTING PLAN
 SCALE 1:200



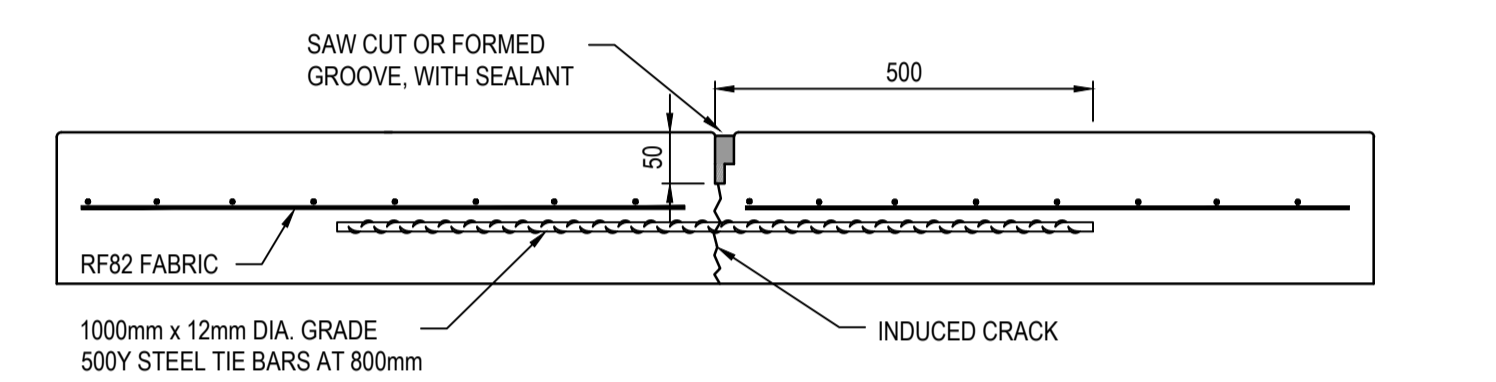
PURE LANE CONCRETE JOINTING PLAN
 SCALE 1:200



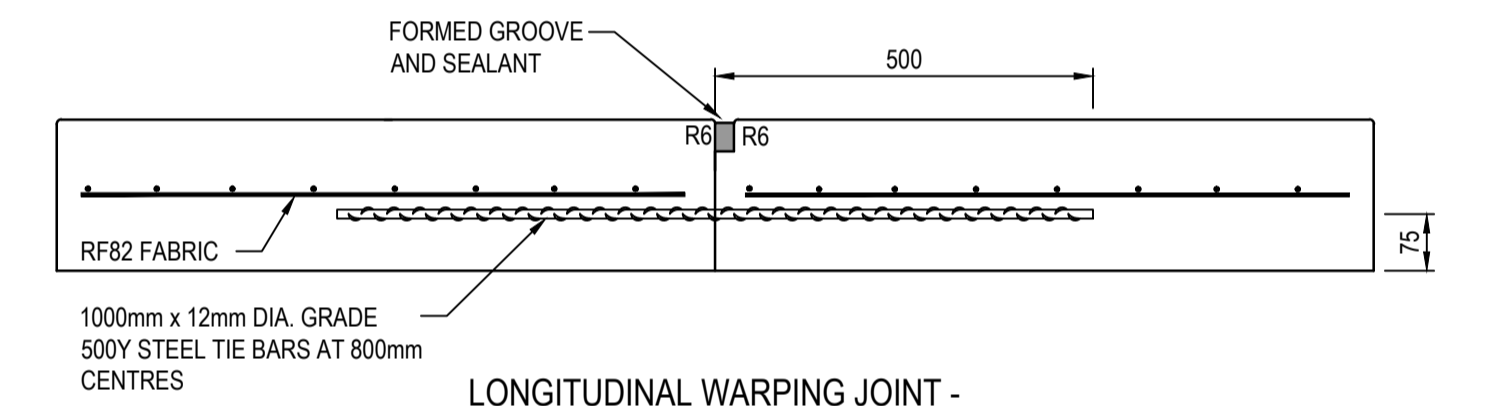
TRANSVERSE CONTRACTION JOINT - DOWELLED JOINT (CJ)



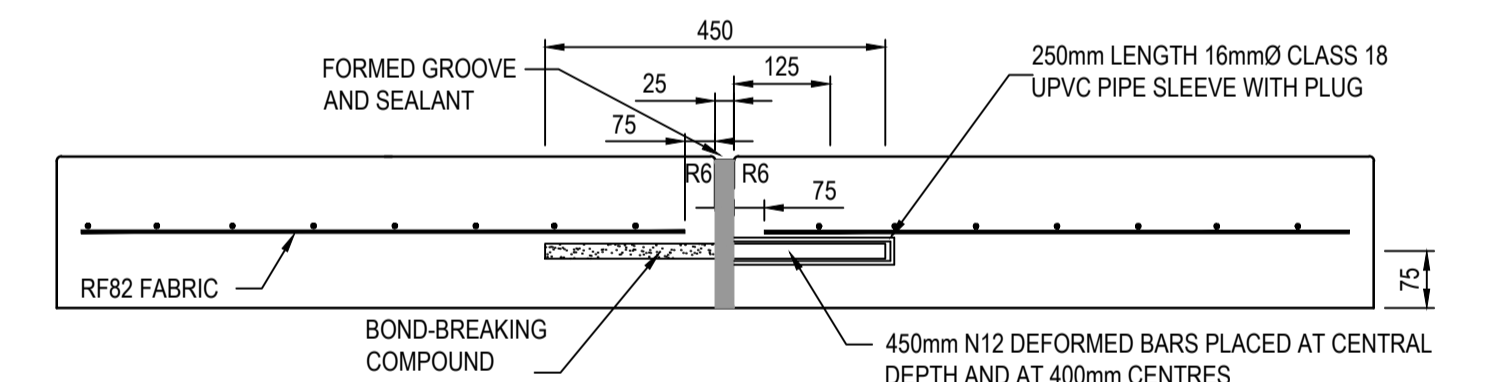
TRANSVERSE CONTRACTION JOINT - DOWELLED BUTT JOINT AT CONSTRUCTION JOINT (DJ)



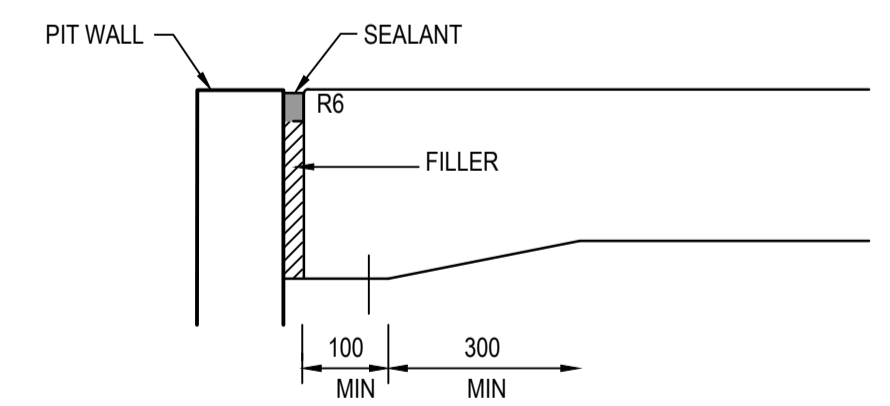
LONGITUDINAL WARPING JOINT - WEAKENED PLANE JOINT (WJ)



LONGITUDINAL WARPING JOINT - CONSTRUCTION JOINT (WCJ)



LONGITUDINAL EXPANSION JOINT - CONSTRUCTION JOINT (EJ)



ISOLATION JOINT (IJ)

- 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.
 - EXPANSION JOINTS ARE TO BE PLACED AT A 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".

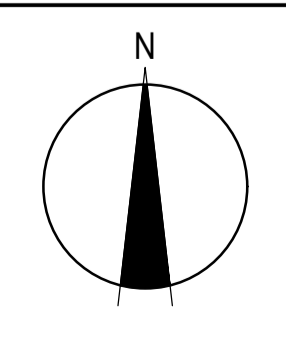
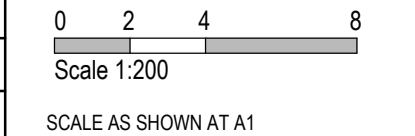
- NOTES:**
- CONCRETE SHALL BE CURED IN ACCORDANCE WITH AS3600 AND NOT TO BE TRAFFICED UNTIL AT LEAST SEVEN DAYS AFTER POURING.

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GROWLAND

Marigold - Stage 4
 Wyndham City Council
 Road and Drainage
 Concrete Jointing Plans

MELWAYS REF: 359 F9
 PROJECT / DRAWING No: 2360E-04-26
 SHEET No: 26 of 27
 REVISION: C

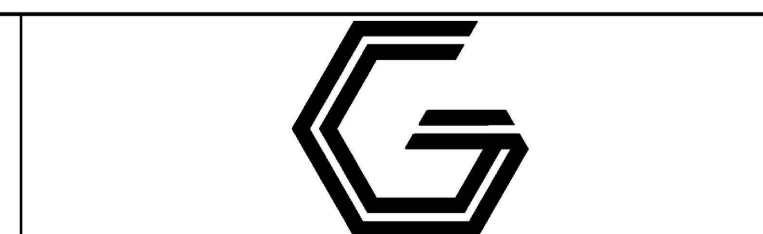
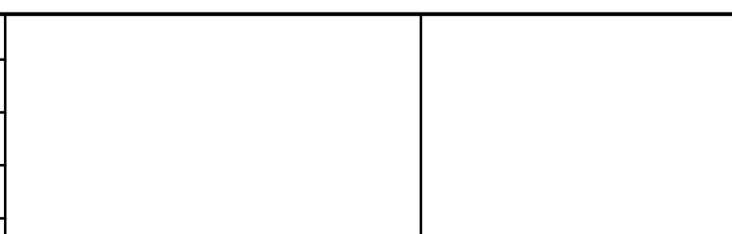
Safety in Design

Project Name: Marigold Stage 04		Design Package: 2360E-04		Date: 19.08.2019											
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"				
			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		
			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		
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		

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Marigold - Stage 4
Wyndham City Council
Road and Drainage
Safety In Design

SUBJECT TO APPROVAL



SCALE AS SHOWN AT A1

MELWAYS REF: 359 F9 PROJECT / DRAWING No: 2360E-04-85 SHEET No: 27 of 27 REVISION: B

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