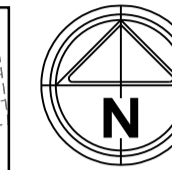
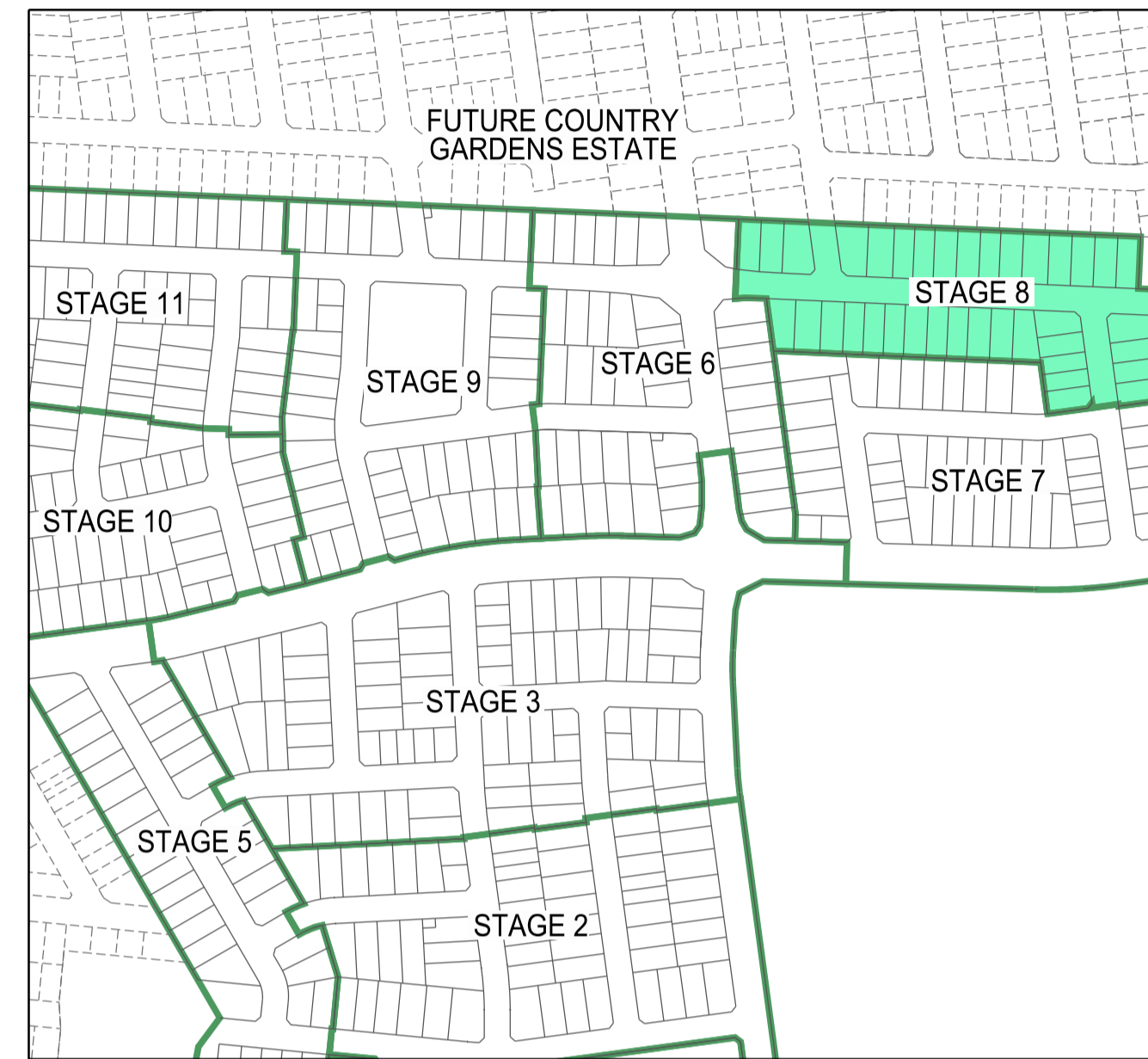


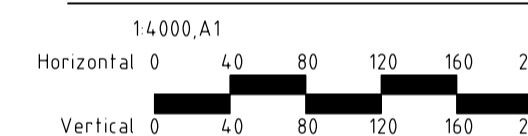
MAMBOURIN ESTATE STAGE 8 FRASERS PROPERTY AUSTRALIA

GENERAL NOTES:

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA (MGA) ZONE 55.
- ALL EXISTING SURFACE LEVELS SHOWN ON THE ENGINEERING DRAWINGS HAVE BEEN INTERPOLATED FROM A DIGITAL TERRAIN MODEL. THESE LEVELS HAVE BEEN USED AS THE BASIS FOR ALL ENGINEERING DESIGN AND DETERMINATION OF QUANTITIES AND ARE ACCURATE TO WITHIN ±0.05m.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH AS2124-1992 GENERAL CONDITIONS OF CONTRACT, THE ROAD & DRAINAGE SPECIFICATION, APPROVED METROPOLITAN PLANNING AUTHORITY OR MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS WHERE NOTED AND TO THE SATISFACTION OF THE SUPERINTENDENT AND THE MUNICIPAL ENGINEER OR HIS REPRESENTATIVE.
- ROAD CHAINAGES REFER TO ROAD CENTRELINES. CHAINAGES FOR INTERSECTIONS AND CUL-DE-SACS REFER TO THE LIP OF KERB.
- THE LOCATION OF EXISTING SERVICES SHOULD BE DETERMINED BY THE CONTRACTOR PRIOR TO COMMENCING ANY EXCAVATION BY CONTACTING ALL LOCAL SERVICE AUTHORITIES. ANY EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE OFFERED AS A GUIDE ONLY AND ARE NOT GUARANTEED AS CORRECT.
- WHERE REQUIRED ANY BUILDINGS, TROUGHS, FENCES AND OTHER STRUCTURES ON SITE ARE TO BE REMOVED AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL IS TO BE INCLUDED IN THE OVERALL EARTHWORKS FIGURE UNLESS A SPECIFIC ITEM FOR REMOVAL IS DENOTED IN THE SCHEDULE.
- ALL EXCAVATED ROCK AND SURPLUS SPOIL TO BE REMOVED AND DISPOSED OFF-SITE UNLESS NOTED OTHERWISE.
- ALL FILLING ON LOTS AND WITHIN ROAD RESERVES GREATER THAN 200mm IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.
- FILLING MATERIAL IS TO BE IN ACCORDANCE WITH THE SPECIFICATION, AS 3798-2007 & TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT.
- ALL BATTERS SHALL BE 1 IN 6, UNLESS OTHERWISE SHOWN.
- NO FILL OR STOCKPILING OF MATERIAL IS TO BE PLACED ON ANY RESERVE FOR PUBLIC OPEN SPACE UNLESS OTHERWISE DIRECTED OR APPROVED BY THE SUPERINTENDENT.
- TBM'S TO BE RE-ESTABLISHED BY THE LICENSED SURVEYOR IF FOUND TO BE MISSING AT THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF TBM'S THEREAFTER.
- AT LEAST 3 DAYS PRIOR TO COMMENCING WORK ON EXCAVATIONS IN EXCESS OF 150mm DEEP, A NOTIFICATION FORM MUST BE SENT TO WORKSAFE. THE CONTRACTOR IS TO COMPLY WITH WORKSAFE, THE MINES (TRENCHES) REGULATION 1982, THE MINES ACT 1958 AND OCCUPATIONAL HEALTH AND SAFETY ACT 1985, 2004.
- ALL SERVICE TRENCHES UNDER DRIVEWAYS, FOOTPATHS AND PARKING BAYS TO BE BACKFILLED WITH CLASS 2 CRUSHED ROCK. SERVICE TRENCHES LESS THAN 750mm BEHIND KERB AND CHANNEL OR PAVED TRAFFIC AREAS ARE ALSO TO BE BACKFILLED WITH COMPACTED CLASS 2 CRUSHED ROCK.
- WHERE REQUIRED, ALL EXISTING DAMS, DEPRESSIONS AND DRAINS ARE TO BE BREACHED, DRAINED, DESLUDGED AND SHALL BE EXCAVATED TO A CLEAN FIRM BASE. THE SURFACE SHALL BE INSPECTED, APPROVED AND LEVELED BY THE ENGINEER PRIOR TO COMMENCEMENT OF FILLING. THE FILL SHALL BE APPROVED SELECTED ON-SITE MATERIAL OR APPROVED IMPORTED MATERIAL. THE FILL SHALL BE PLACED UNDER CONTROLLED MOISTURE CONDITIONS IN ACCORDANCE WITH THE SPECIFICATION.
- NO BLASTING TO BE CARRIED OUT WITHIN THE MUNICIPALITY WITHOUT OBTAINING COUNCIL'S & SUPERINTENDENT WRITTEN PERMISSION.
- GAS AND WATER CONDUITS ARE TO BE 950mm CLASS 12 P.V.C. - SINGLE SERVICE
Ø100mm CLASS 12 P.V.C. - DUAL SERVICE (DRINKING AND NON DRINKING WATER)
WITH THE FOLLOWING MINIMUM COVER TO FINISHED SURFACE LEVELS:
ROAD PAVEMENT - 0.80m
VERGE, FOOTPATHS - 0.45m
- ALL SERVICE CONDUIT TRENCHES UNDER ROAD PAVEMENTS TO BE BACKFILLED IN ACCORDANCE WITH RELEVANT MUNICIPALITY OR ROAD AUTHORITY SPECIFICATION.
- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE METROPOLITAN PLANNING AUTHORITY STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.3m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPE ALIGNMENTS ARE SHOWN ON THE FACE PLANS THEY ARE TO BE LAID PARALLEL TO THE BACK OF KERB, EXCEPT WHERE A RADIUS HAS BEEN SPECIFICALLY NOMINATED. CURVED PIPES ARE TO BE APPROVED BY COUNCIL AND IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- OPTICOM IS TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED BY THE SUPERINTENDENT AND COUNCIL. FILLING TO BE CONSTRUCTED IN LAYERS 150mm THICK WITH COMPACTION ACHIEVING 95% AUSTRALIAN STANDARD DENSITY.
- WHEN PAVEMENT EXCAVATION IS IN ROCK, ALL LOOSE MATERIAL (INCLUDING ROCKS AND CLAY) MUST BE REMOVED. THE SUB-GRADE MUST THEN BE REGULATED WITH COUNCIL APPROVED MATERIAL.
- ALL VEHICLE CROSSINGS ARE IN ACCORDANCE WITH COUNCIL STANDARD DRAWINGS.
- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2 UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH METROPOLITAN PLANNING AUTHORITY STANDARDS.
- ALL TEMPORARY WARNING SIGNS USED DURING CONSTRUCTION SHALL BE SUPPLIED AND MAINTAINED IN ACCORDANCE WITH AS 1742-3.
- TACTILE GROUND SURFACE INDICATORS ARE TO BE INSTALLED IN ACCORDANCE WITH THE DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS.
- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. TEMP TO BE APPROVED BY COUNCIL PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL TREES AND SHRUBS ARE TO BE RETAINED UNLESS OTHERWISE SHOWN. IF ROAD AND DRAINAGE CONSTRUCTION NECESSITATES THEIR REMOVAL, WRITTEN PERMISSION MUST BE OBTAINED FROM THE SUPERINTENDENT.
- TREES NOT SPECIFIED FOR REMOVAL ARE TO BE PROTECTED WITH APPROPRIATE EXCLUSION FENCING PRIOR TO COMMENCEMENT OF ANY WORKS.
- THE CONTRACTOR IS REQUIRED TO OBTAIN A 'PERMIT TO WORK' FROM MELBOURNE WATER'S SURVEILLANCE OFFICER AT THE PRE-COMMENCEMENT MEETING. THE CONTRACTOR IS REQUIRED TO ENSURE THAT THE 'PERMIT TO WORK' IS KEPT UP TO DATE FOR THE DURATION OF THE CONTRACT.
- ALL PITS / MANHOLES IN CONCRETE AREAS TO BE CONSTRUCTED IN ACCORDANCE WITH WCC DETAIL SD2-5.
- ALL NATURESTRIPS, FROM BACK OF KERB TO EXISTING EDGE OF PATH OR PROPERTY BOUNDARY ARE TO BE FILLED TO A CLEAN, TIDY CONDITION, TOP DRESSED (50MM LOAMY TOP SOIL FREE OF CLUMPS, SODS AND CLAY LUMPS) AND HYDROSEEDED.
- ALL STORMWATER DRAINS ARE TO BE CLASS 2 R.C. OR RIGID F.R.C. PIPES WITH ADCOL FLEXIBLE COLLARS UNLESS NOTED OTHERWISE. ALL PIPES UP TO AND INCLUDING 750mm DIA ARE TO BE RUBBER RING JOINTED INTERLOCKING / FLUSH JOINTS WITH EXTERNAL BANDS CAN ONLY BE USED ON PIPE SIZES OVER 750mm DIA.
- CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING SPLAY PIPES INSTALLED AS PER MANUFACTURERS SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES.



LOCALITY PLAN



DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
305173R01	FACE SHEET	1	2
305173R02	ROAD & DRAINAGE FACE PLAN	2	2
305173R03	ROAD & DRAINAGE SERVICES PLAN	3	1
305173R04	LONGITUDINAL SECTION - HEIDELBERG AVENUE, LYRIC DRIVE & NORTHAM STREET	4	2
305173R05	CROSS SECTIONS - HEIDELBERG AVENUE SHEET 1 OF 2	5	2
305173R06	CROSS SECTIONS - HEIDELBERG AVENUE SHEET 2 OF 2	6	0
305173R07	CROSS SECTIONS - NORTHAM STREET & LYRIC DRIVE	7	1
305173R08	INTERSECTION DETAILS	8	2
305173R09	DRAINAGE LONG SECTION SHEET 1 OF 2	9	1
305173R10	DRAINAGE LONG SECTION SHEET 2 OF 2	10	2
305173R11	DRAINAGE PIT SCHEDULE	11	2
305173R12	PAVEMENT PLAN AND TYPICAL DETAILS	12	0
305173R13	SIGNAGE & LINEMARKING	13	0



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
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LEGEND

DESCRIPTION	EXISTING	PROPOSED
WATER MAIN, VALVE AND HYDRANT	DW	DW
WATER RECYCLED	NDW	NDW
UNDERGROUND ELECTRICITY	E	E
OVERHEAD ELECTRICITY & POLE	OE	OE
TELECOMMUNICATIONS & SERVICE PIT	T	T
OPTIC FIBRE	OF	OF
OVERHEAD TELECOMMUNICATIONS	OT	OT
GAS MAIN	G	G
BRANCH SEWER & MAINTENANCE STRUCTURE	S	S
SEWER & MAINTENANCE STRUCTURE	S	S
SEWER RISING MAIN	SRM	SRM
CENTRAL INVERT		
COUNCIL STORMWATER DRAIN AND PIT		
STORM WATER DRAINAGE PROPERTY INLETS		
COUNCIL STORM WATER PITS		
HOUSE DRAIN		
AG DRAIN AND FLUSHER	AG	AG
MWC STORM WATER DRAIN & PIT		
MWC STORM WATER PITS		
STORM WATER DRAINAGE PIT NUMBER	1	1
GAS & WATER CONDUITS	GW	GW
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		SAWCUT
RIDGE / CHANGE OF GRADE LINE		
SURFACE CONTOUR MINOR	169.00	169.00
SURFACE CONTOUR MAJOR	168.90	168.90
SURFACE LEVEL	E123.45	F124.68
BATTER LEVEL (TOP / TOE)	T124.80	T124.80
RETAINING WALL LEVEL (TOP/BOTTOM)	TW112.76	TW128.50 BW126.74
EARTHWORKS GRADE		1 in 150
SIGN AND POST		
LIGHT & POLE (BY OTHERS)		
STREET SIGN		
PERMANENT SURVEY MARK		
TEMPORARY BENCH MARK		
BOLLARD		
ROAD CHAINAGES	CH116.57 (L/R)TP CH116.57	CH116.57 (L/R)TP CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT		A2
LIMIT OF WORKS		
BATTER		
EXCAVATION GREATER THAN 0.20m		
FILLING GREATER THAN 0.20m		
ROCK BEACHING		
RETAINING WALL		
FENCE - TREE PROTECTION		
FENCE - VEHICLE EXCLUSION		
FENCES		
GUARD RAIL		
TREE (8 SURVEYED CANOPY) TO BE RETAINED		
TREE TO BE PROTECTED		
TREE TO BE REMOVED		
VEGETATION LINE		
FOOTPATH		
TACTILE GROUND SURFACE INDICATOR		
KERB TRANSITION	B2	SM2

Rev	Amendments	Approved	Date
2	DRAWING SCHEDULE UPDATED.	M.L.	6/09/19
1	GENERAL NOTES 16 & 22 UPDATED. DRAWING SCHEDULE UPDATED.	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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Designed
T. WONG
Authorised
M. LETSON

Checked
R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE STAGE 8 FACE SHEET

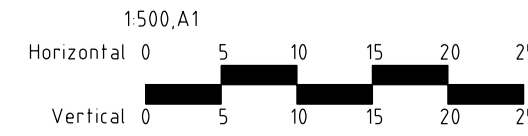
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No **305173R01** Rev **2**



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Rev	Amendments	Approved	Date
2	NORTHAM ST ALIGNMENT UPDATED. DRAINAGE 8 TO 8B & 14 TO 15 REALIGNED. SEWER REMOVED REAR LOTS 804 TO 816 & SIDE LOT 816. CUT FILL ZONES. FINISH LEVEL & BATTER LEVEL FOR LOTS 803 & 804 UPDATED	M.L.	6/09/19
1	FINISH LEVEL & BATTER LEVEL FOR LOTS 801, 802, 803, 837 & 836 UPDATED	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



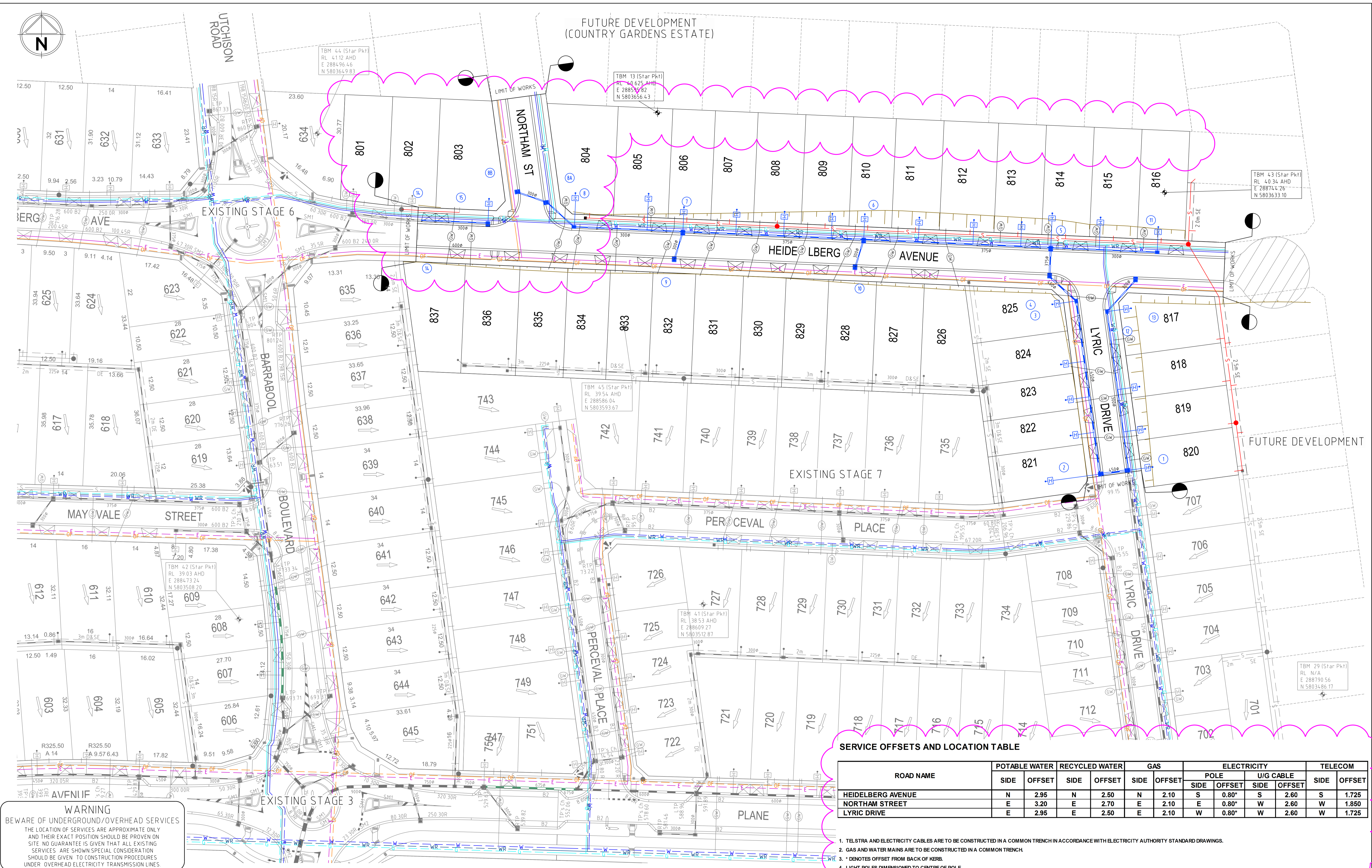
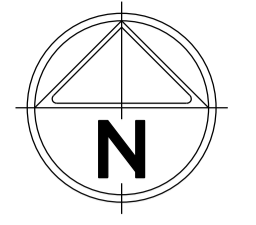
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 Authorised
M. LETSON

Checked
R. WEINBER
 Date
 16/01/19

MAMBOURIN ESTATE
STAGE 8
ROAD & DRAINAGE
FACE PLAN
 FRASER PROPERTY AUSTRALIA
 CITY OF WYNDHAM
CONSTRUCTION Drg No **305173R02** Rev **2**



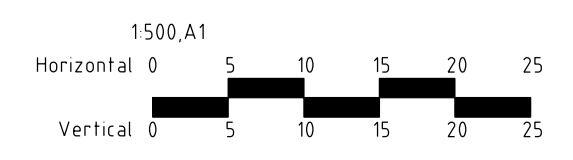
WARNING
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SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		RECYCLED WATER		GAS		ELECTRICITY				TELECOM	
	SIDE	OFFSET	SIDE	OFFSET	SIDE	OFFSET	POLE SIDE	POLE OFFSET	U/G CABLE SIDE	U/G CABLE OFFSET	SIDE	OFFSET
HEIDELBERG AVENUE	N	2.95	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725
NORTHAM STREET	E	3.20	E	2.70	E	2.10	E	0.80*	W	2.60	W	1.850
LYRIC DRIVE	E	2.95	E	2.50	E	2.10	W	0.80*	W	2.60	W	1.725

1. TELSTRA AND ELECTRICITY CABLES ARE TO BE CONSTRUCTED IN A COMMON TRENCH IN ACCORDANCE WITH ELECTRICITY AUTHORITY STANDARD DRAWINGS.
2. GAS AND WATER MAINS ARE TO BE CONSTRUCTED IN A COMMON TRENCH.
3. * DENOTES OFFSET FROM BACK OF KERB.
4. LIGHT POLES DIMENSIONED TO CENTRE OF POLE.

Rev	Amendments	Approved	Date
1	NORTHAM ST ALIGNMENT UPDATED. DRAINAGE 8 TO 8B & 14 TO 15 REALIGNED. SEWER REMOVED REAR LOTS 804 TO 816 & SIDE LOT 816.	M.L.	6/09/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



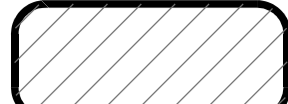
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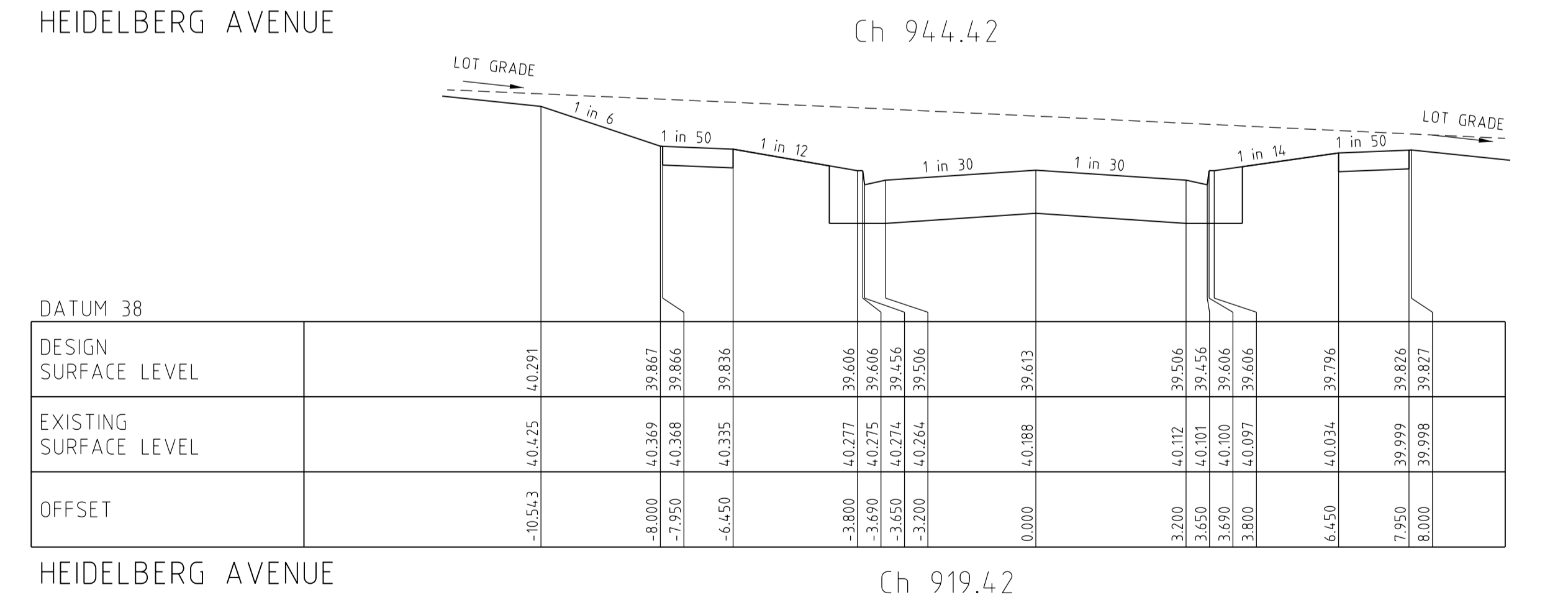
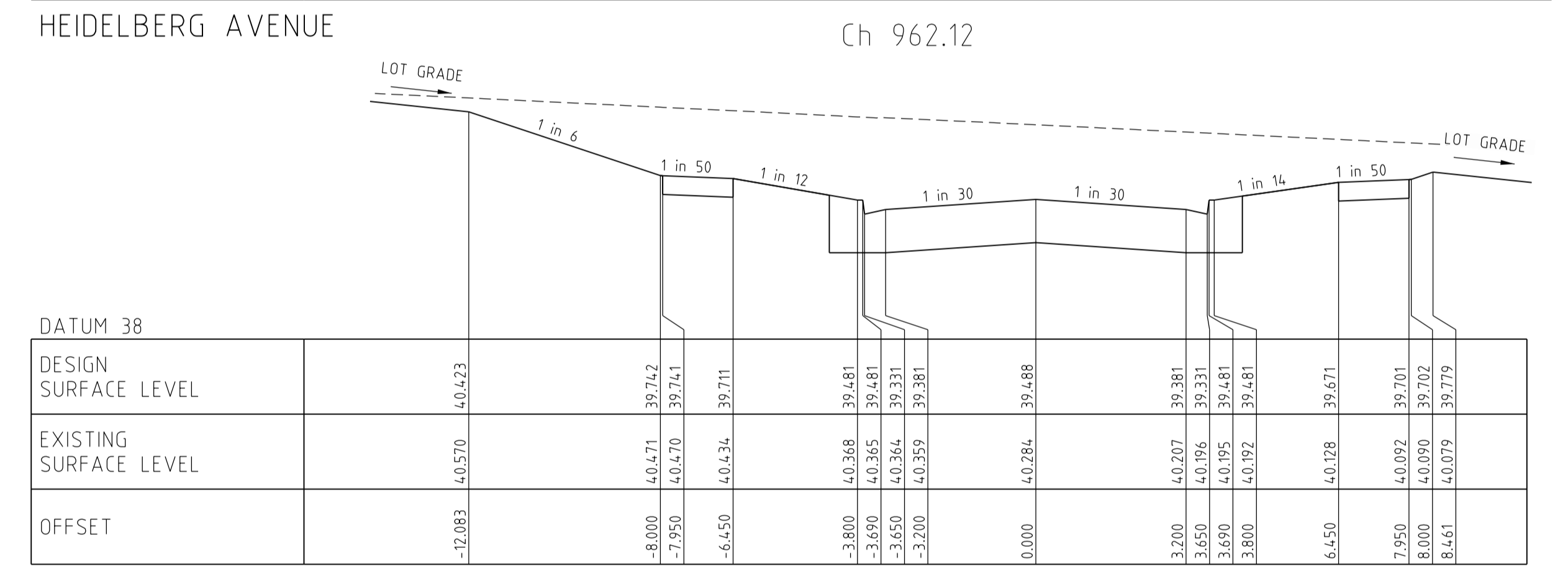
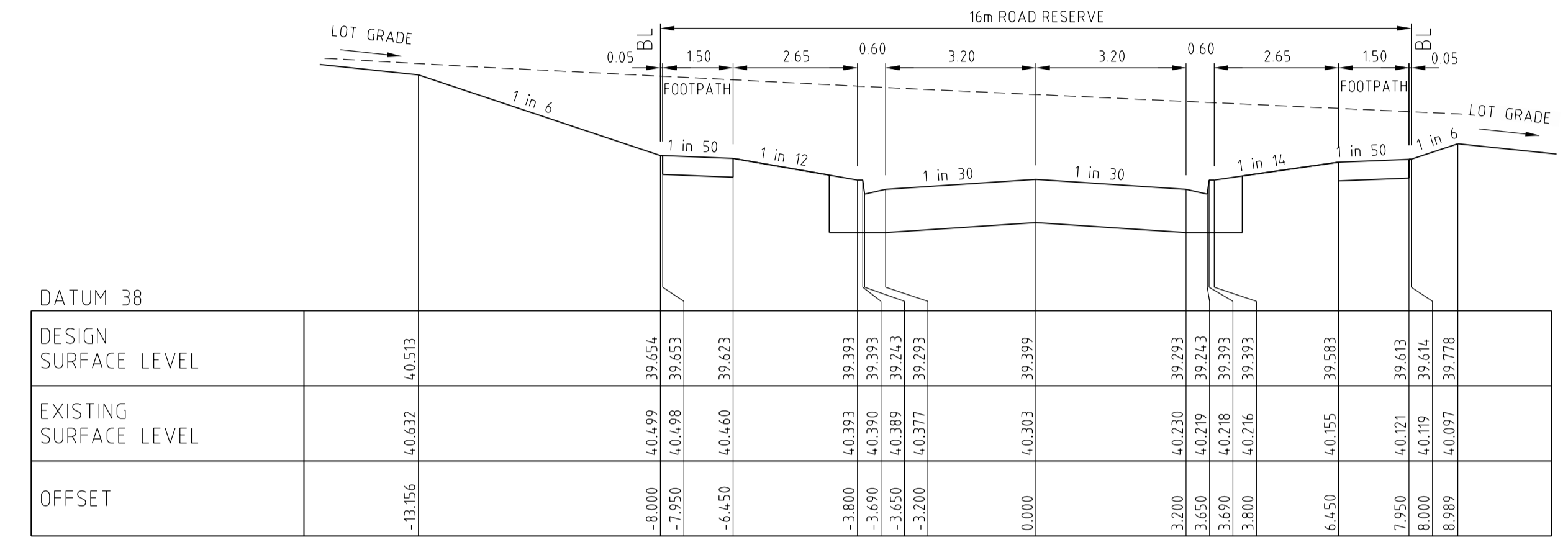
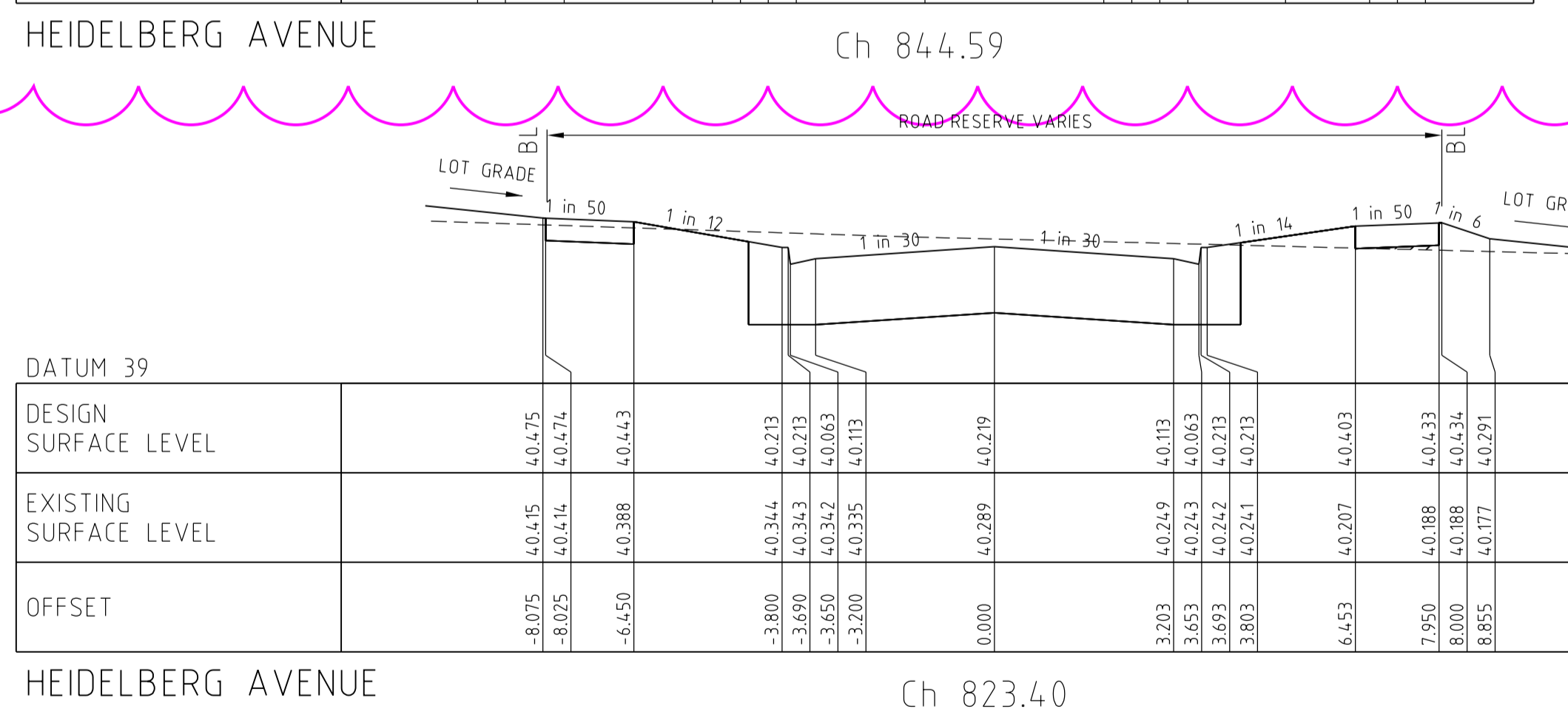
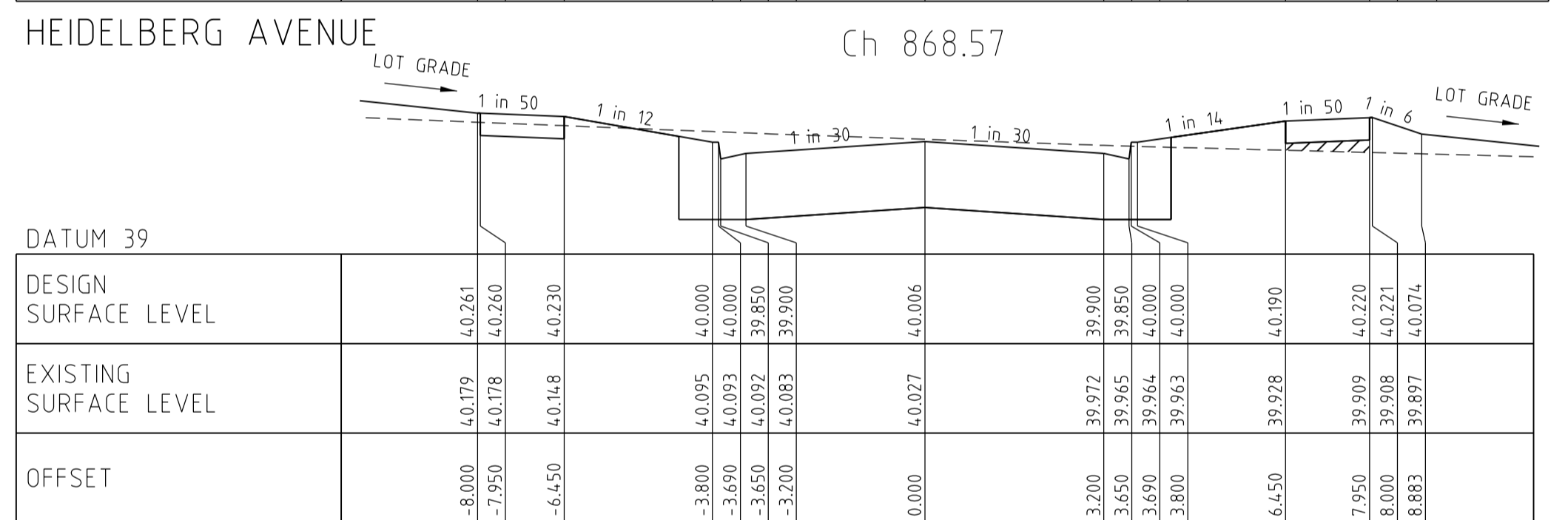
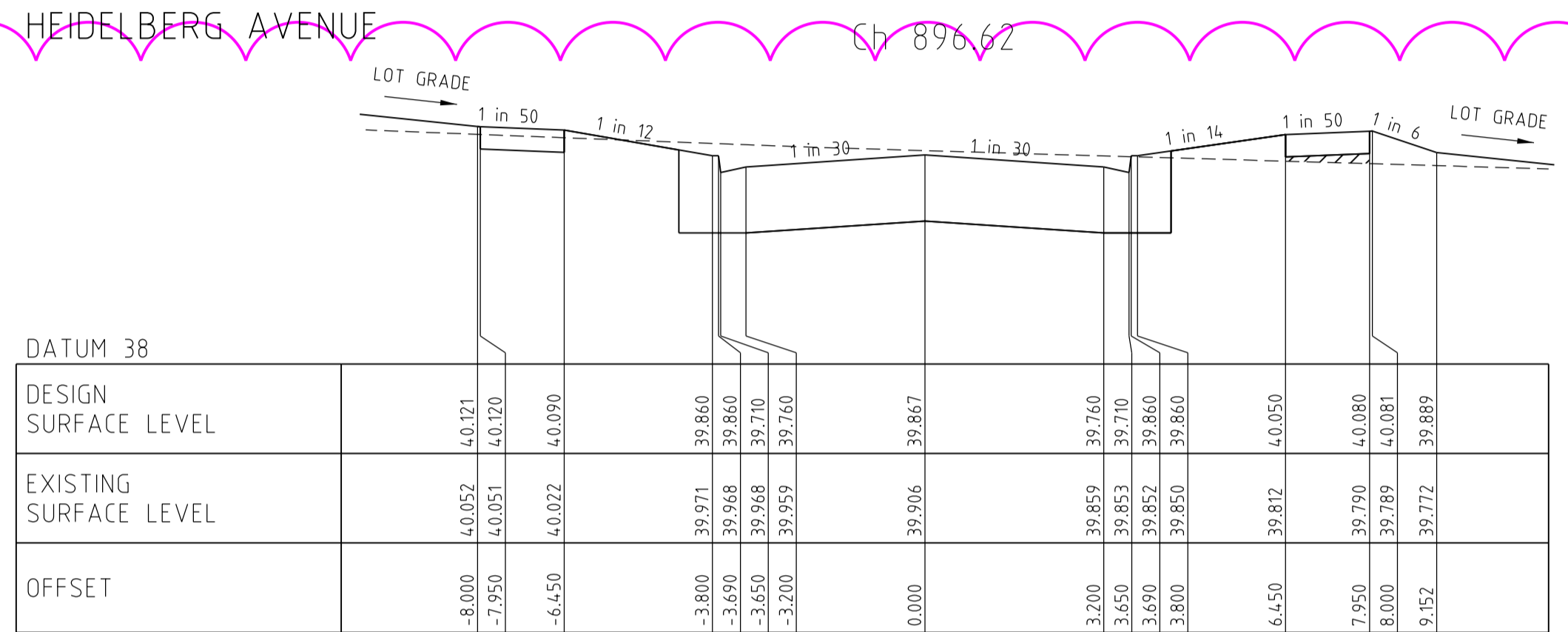
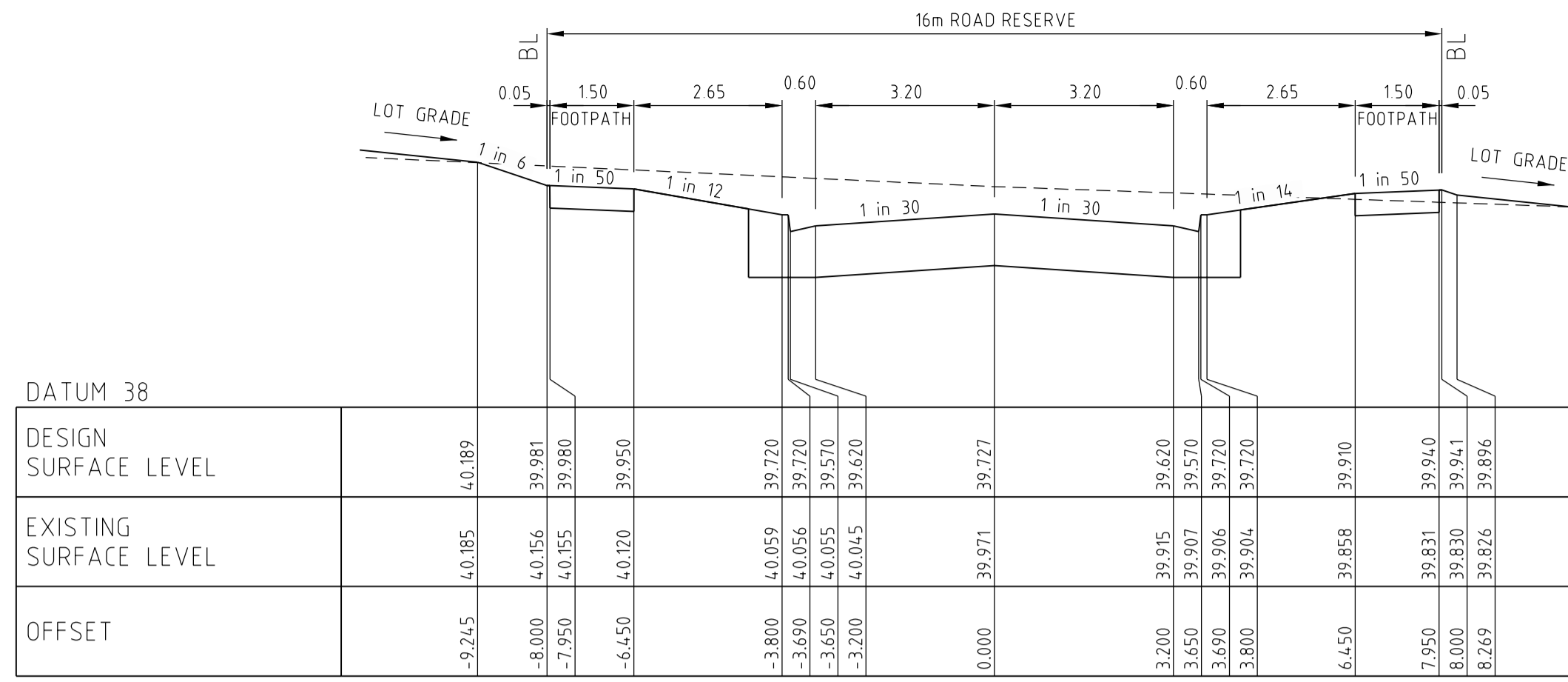
FRASERS PROPERTY
 Designed: T. WONG
 Authorised: M. LETSON

Checked: R. WEINBER
 Date: 16/01/19

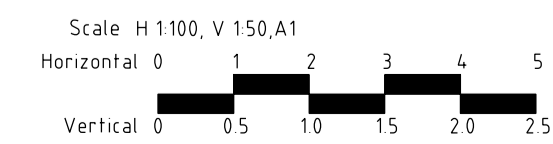
MAMBOURIN ESTATE
STAGE 8
ROAD & DRAINAGE SERVICES PLAN
 FRASERS PROPERTY AUSTRALIA
 CITY OF WYNDHAM
CONSTRUCTION Drg No **305173R03** Rev **1**



STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



Rev	Amendments	Approved	Date
2	HEIDELBERG AVENUE CROSS SECTION TP CHAINAGES CH868.57 & CH844.59 ADDED	M.L.	26/06/19
1	HEIDELBERG AVENUE CROSS SECTION CH823.40 & CH844.75 UPDATED	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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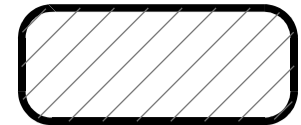
Date
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MAMBOURIN ESTATE
STAGE 8
CROSS SECTIONS - HEIDELBERG AVENUE
SHEET 1 OF 2

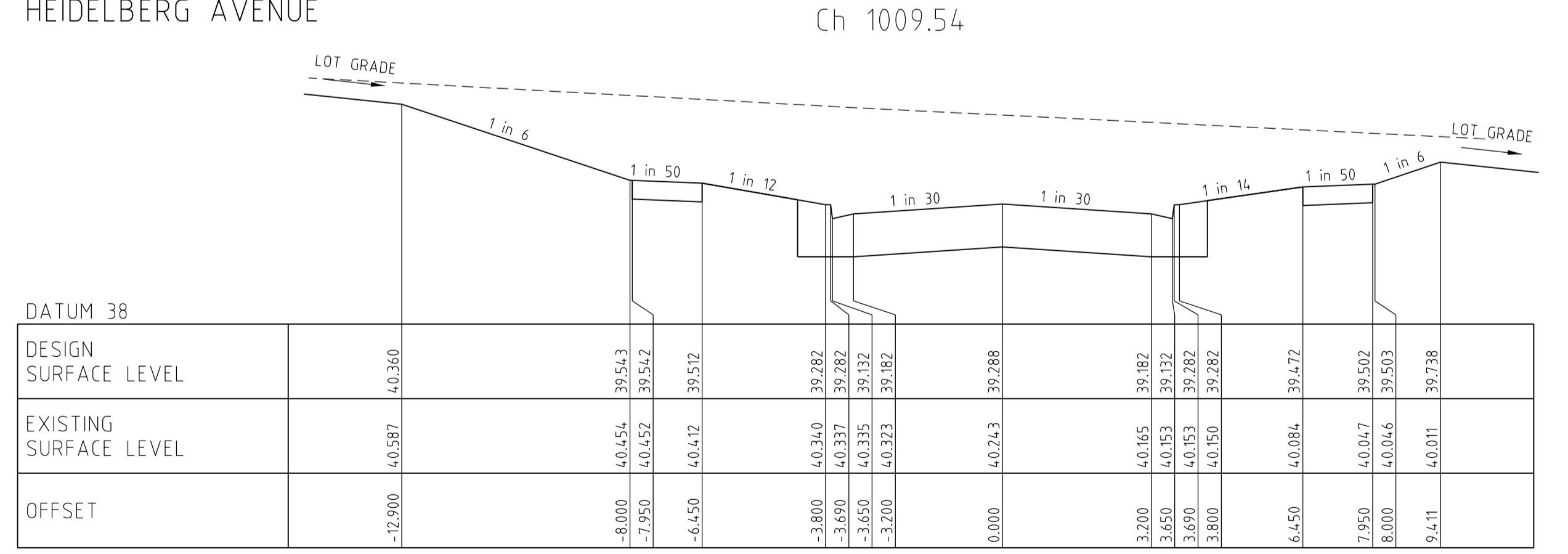
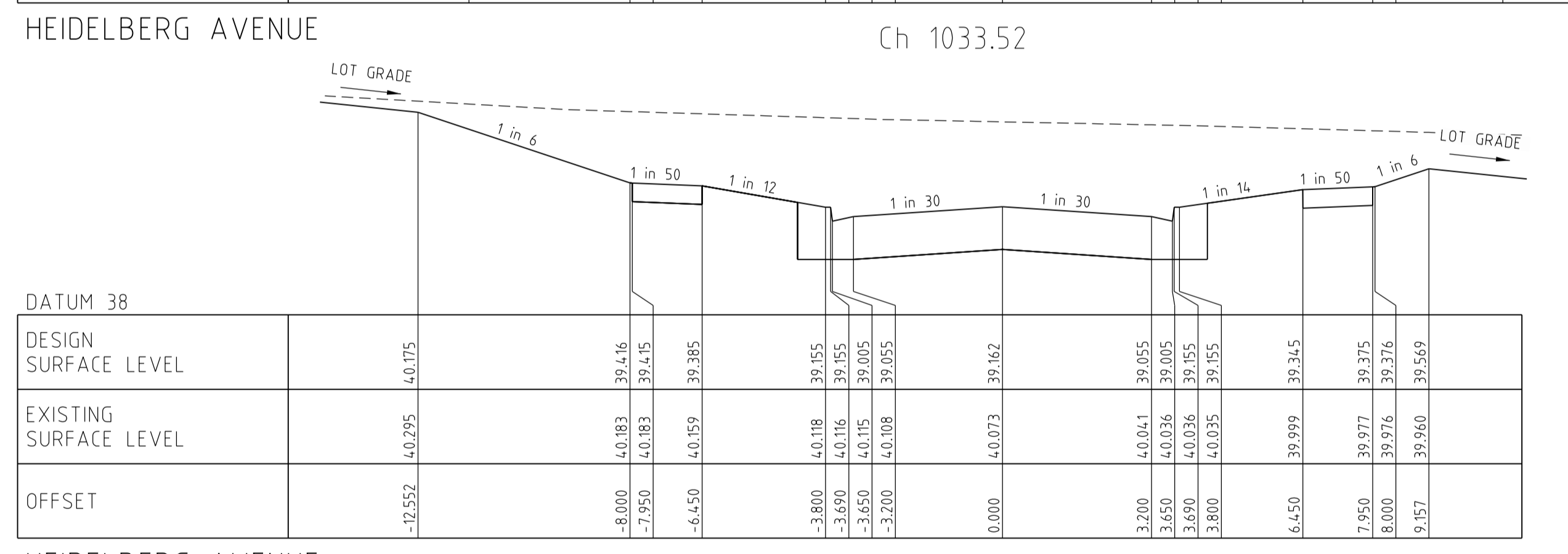
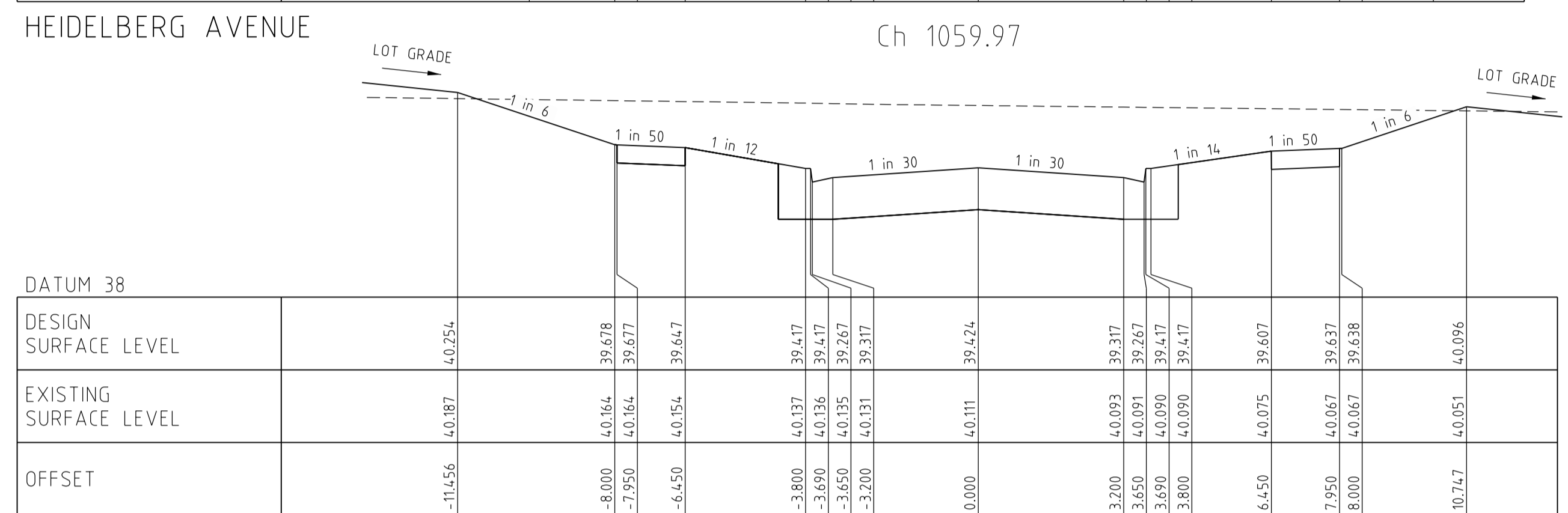
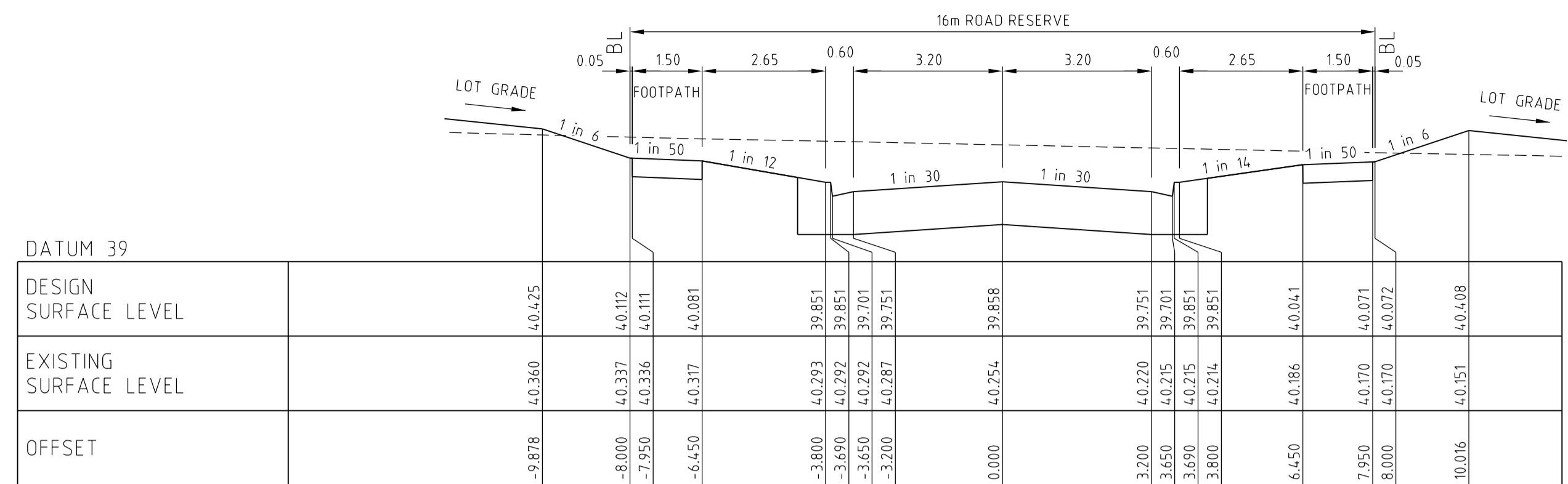
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

Drg No
305173R05

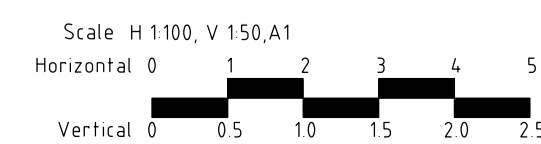
Rev
2



STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



Rev	Amendments	Approved	Date
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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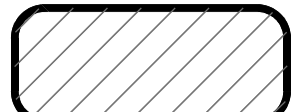


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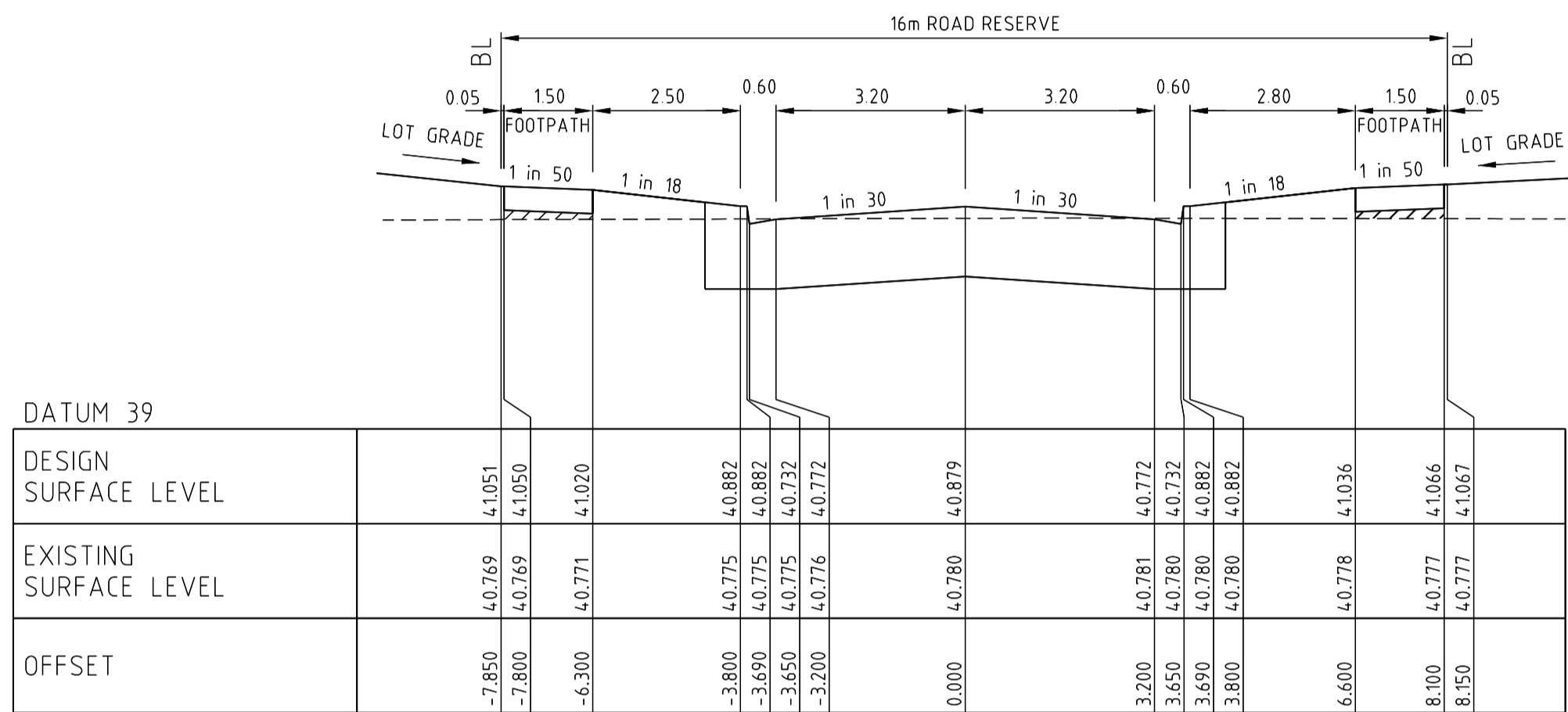
Checked
R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE
STAGE 8
CROSS SECTIONS - HEIDELBERG AVENUE
SHEET 2 OF 2
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R06 Rev 0

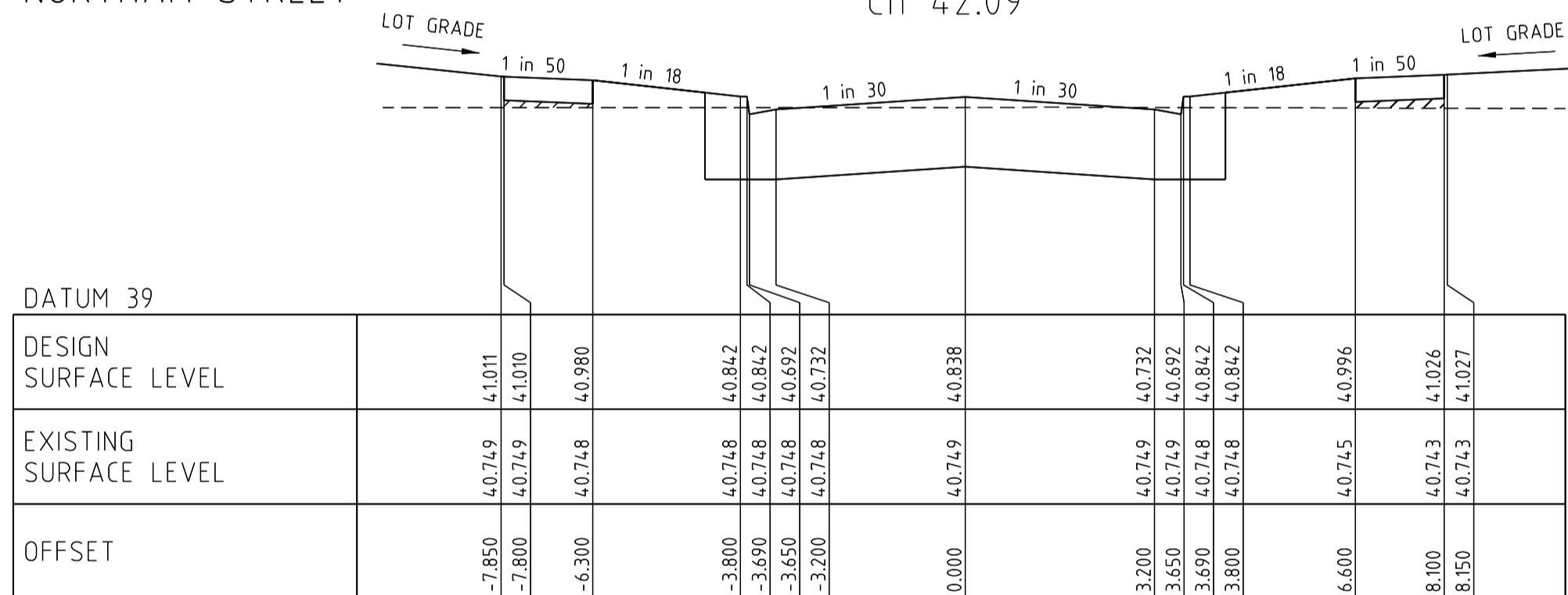


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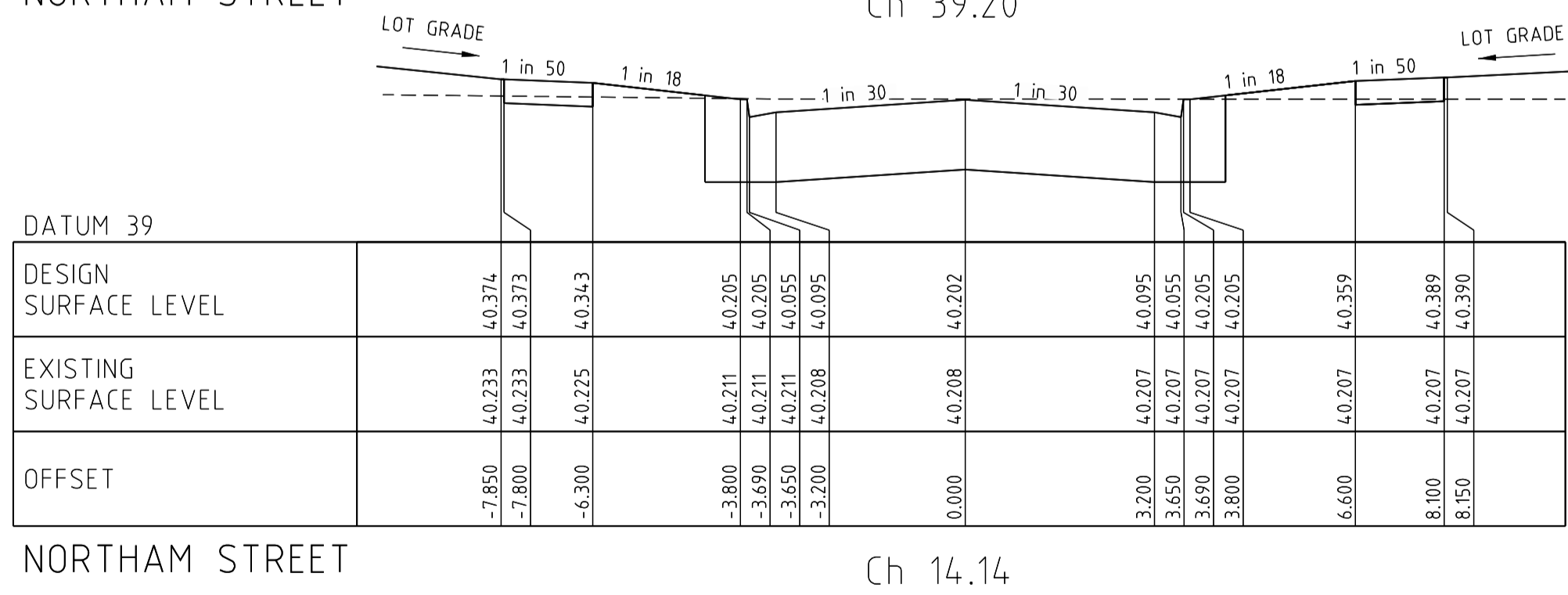
NORTHAM STREET

Ch 42.09



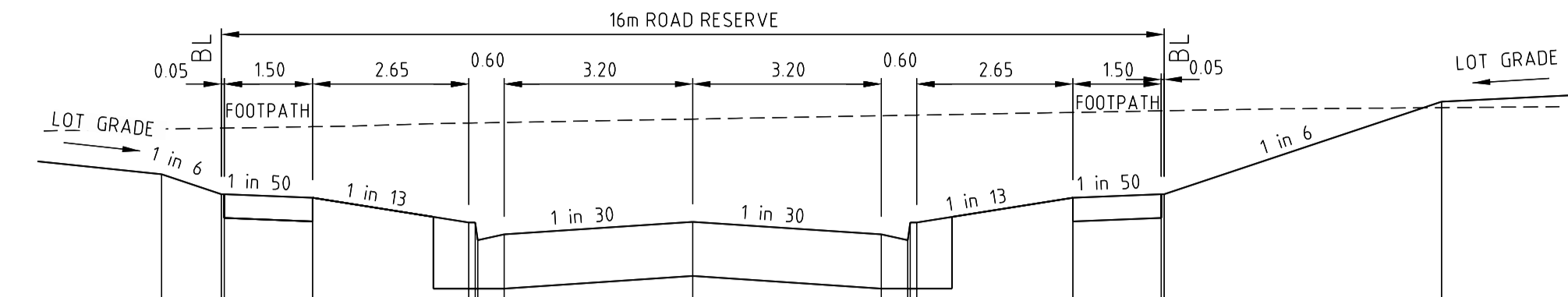
NORTHAM STREET

Ch 39.20



NORTHAM STREET

Ch 14.14

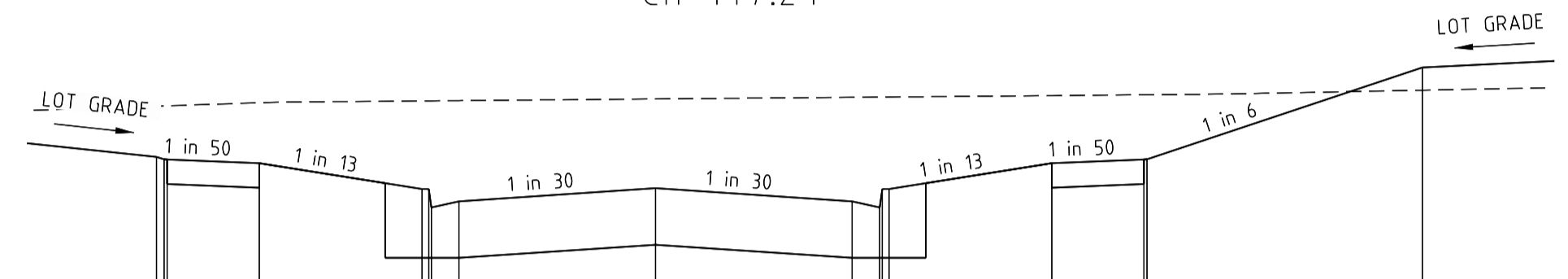


DATUM 38

DESIGN SURFACE LEVEL	39.464, 39.315, 39.314, 39.284, 39.074, 39.074, 39.274, 39.081, 39.284, 39.314, 39.315, 40.100
EXISTING SURFACE LEVEL	39.668, 39.875, 39.876, 39.888, 39.918, 39.919, 39.920, 39.952, 40.009, 40.022, 40.022, 40.049
OFFSET	-9.014, -8.000, -7.950, -6.450, -3.800, -3.690, -3.650, 0.000, 3.200, 3.650, 3.800, 12.708

LYRIC DRIVE

Ch 147.24

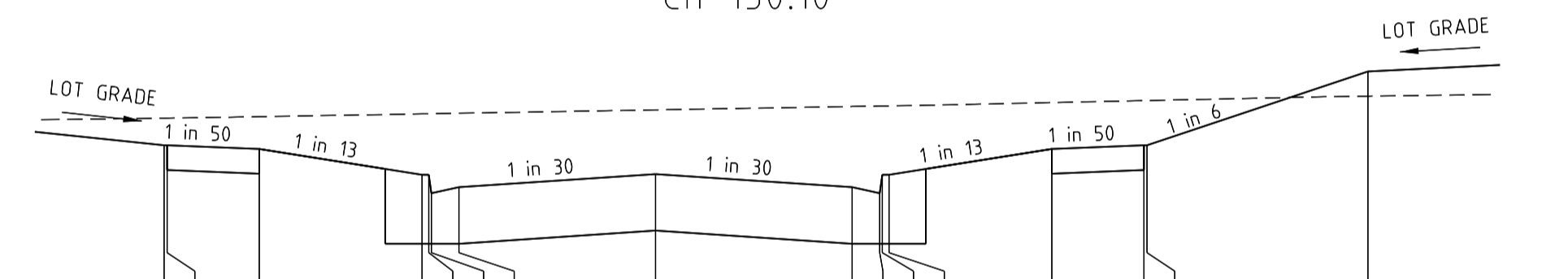


DATUM 38

DESIGN SURFACE LEVEL	39.250, 39.229, 39.228, 39.198, 38.988, 38.988, 38.638, 38.995, 39.198, 39.229, 39.229, 39.976
EXISTING SURFACE LEVEL	39.662, 39.664, 39.665, 39.690, 39.705, 39.705, 39.705, 39.721, 39.748, 39.729, 39.729, 39.792
OFFSET	-8.105, -8.000, -7.950, -6.450, -3.800, -3.690, -3.650, 0.000, 3.200, 3.650, 3.800, 12.482

LYRIC DRIVE

Ch 130.10

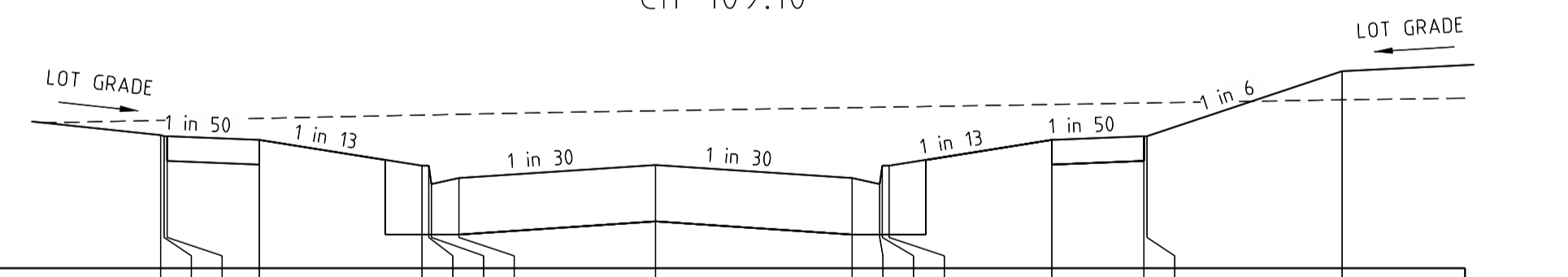


DATUM 38

DESIGN SURFACE LEVEL	39.124, 39.123, 39.093, 38.883, 38.883, 38.733, 38.733, 38.890, 39.093, 39.123, 39.124, 39.723
EXISTING SURFACE LEVEL	39.344, 39.345, 39.356, 39.379, 39.380, 39.380, 39.380, 39.411, 39.471, 39.487, 39.487, 39.523
OFFSET	-8.000, -7.950, -6.450, -3.800, -3.690, -3.650, -3.200, 0.000, 3.200, 3.650, 3.800, 11.595

LYRIC DRIVE

Ch 109.10

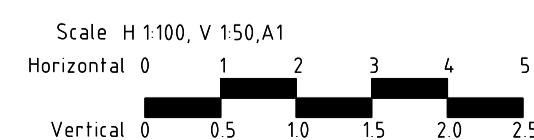


DATUM 38

DESIGN SURFACE LEVEL	39.084, 39.074, 39.043, 38.833, 38.833, 38.683, 38.683, 38.840, 39.043, 39.074, 39.074, 39.604
EXISTING SURFACE LEVEL	39.203, 39.204, 39.204, 39.219, 39.219, 39.219, 39.219, 39.281, 39.332, 39.345, 39.345, 39.370
OFFSET	-8.055, -8.000, -7.950, -6.450, -3.800, -3.690, -3.650, 0.000, 3.200, 3.650, 3.800, 11.175

LYRIC DRIVE

Ch 99.15



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Designed
T. WONG
Authorised
M. LETSON

Checked
R. WEINBER
Date
16/01/19

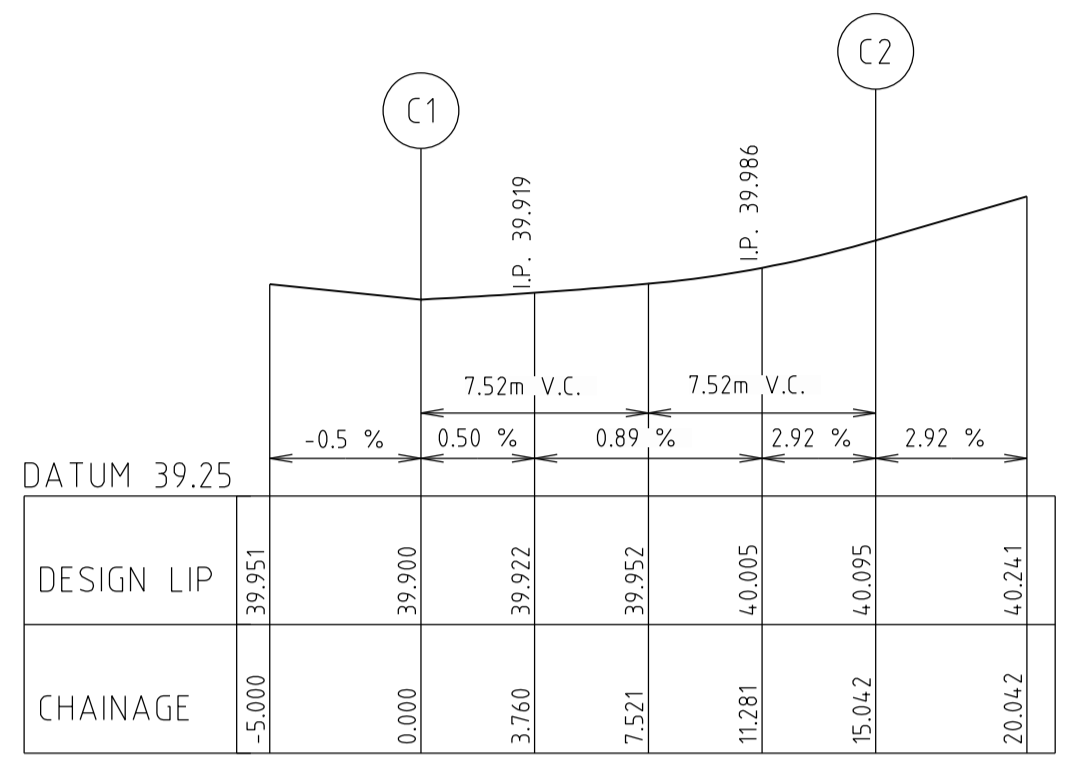
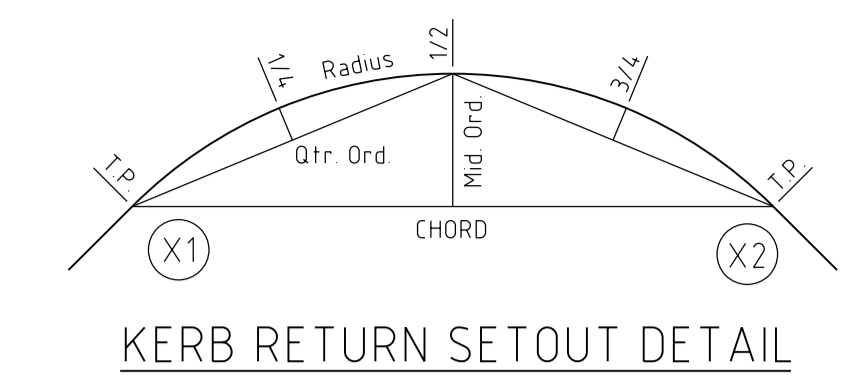
MAMBOURIN ESTATE
STAGE 8
CROSS SECTIONS - NORTHAM STREET & LYRIC DRIVE

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R07

Rev 1

Rev	Amendments	Approved	Date
1	NORTHAM ST REGRADED, CROSS SECTIONS UPDATED.	M.L.	6/09/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19

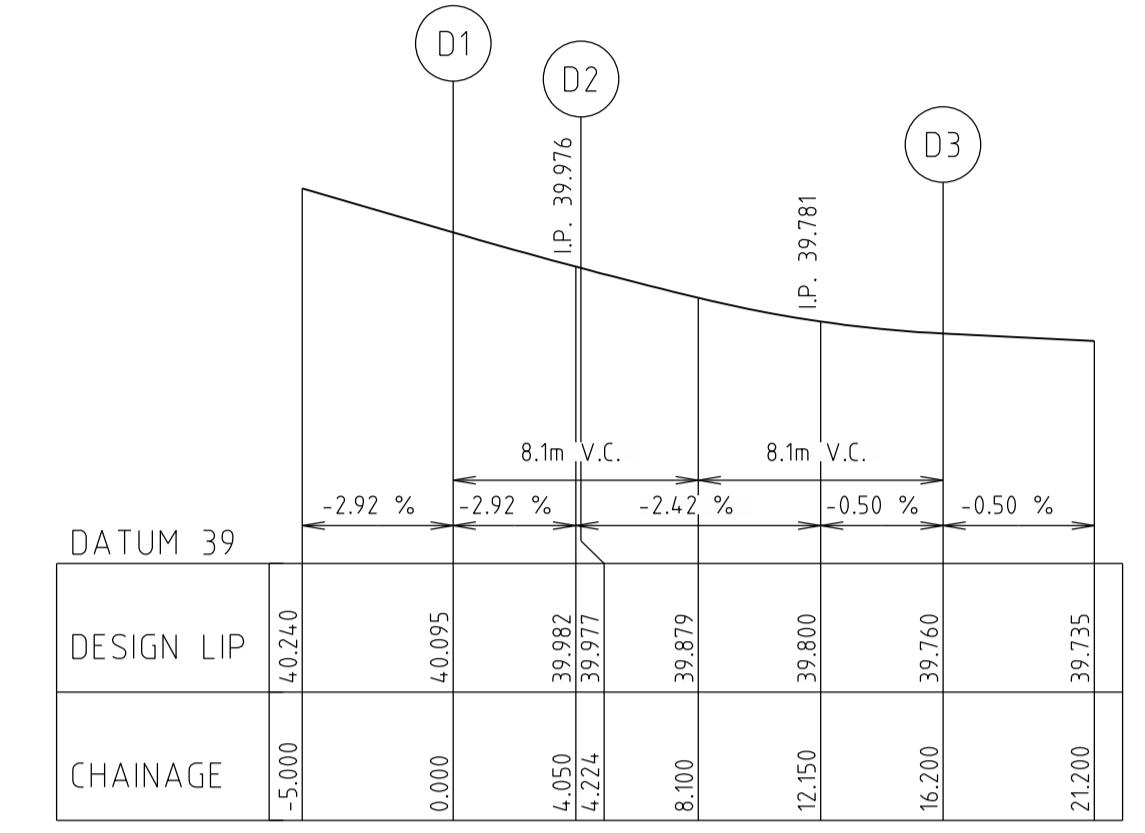
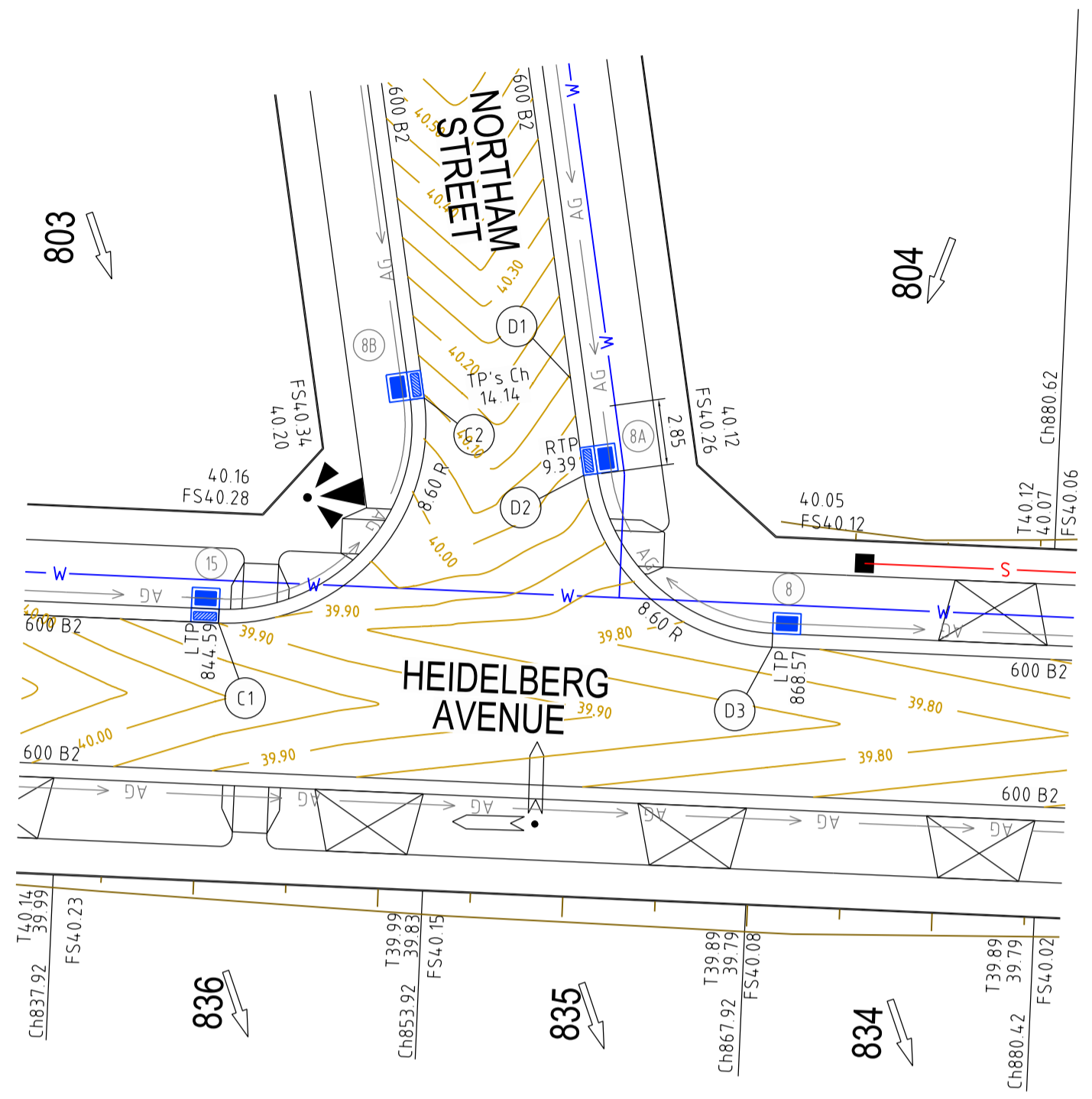


ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288546.699	5803623.063	39.900
1/4	288550.373	5803623.713	39.922
1/2	288553.425	5803625.857	39.952
3/4	288555.283	5803629.092	40.005
C2	288555.596	5803632.809	40.095

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	15.042	13.196	3.084	-0.809

LIP LINE C
Hor250
Ver25

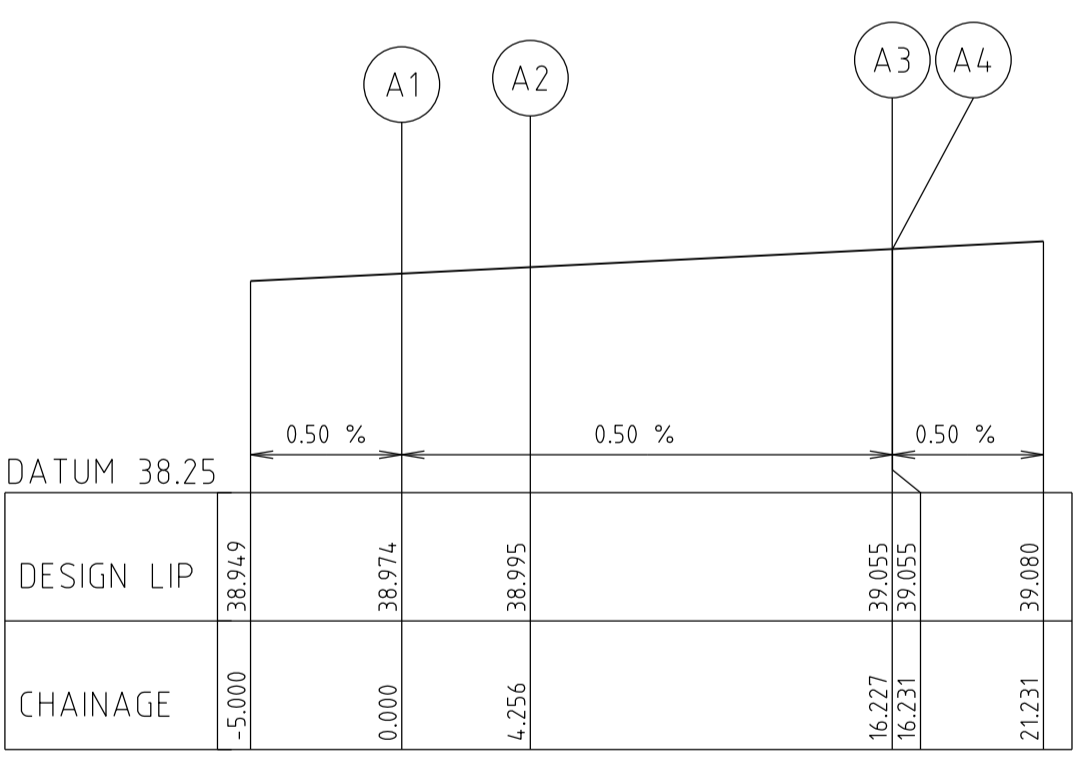


ALIGNMENT D

POINT NO	EASTING	NORTHING	RL
D1	288561.942	5803633.642	40.095
D2	288562.509	5803629.455	39.977
1/4	288563.414	5803624.617	39.900
1/2	288565.233	5803624.258	39.833
3/4	288567.747	5803622.661	39.786
D3	288570.656	5803622.018	39.760

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D2-D3	8.600	11.976	11.032	2.002	-0.516

LIP LINE D
Hor250
Ver25

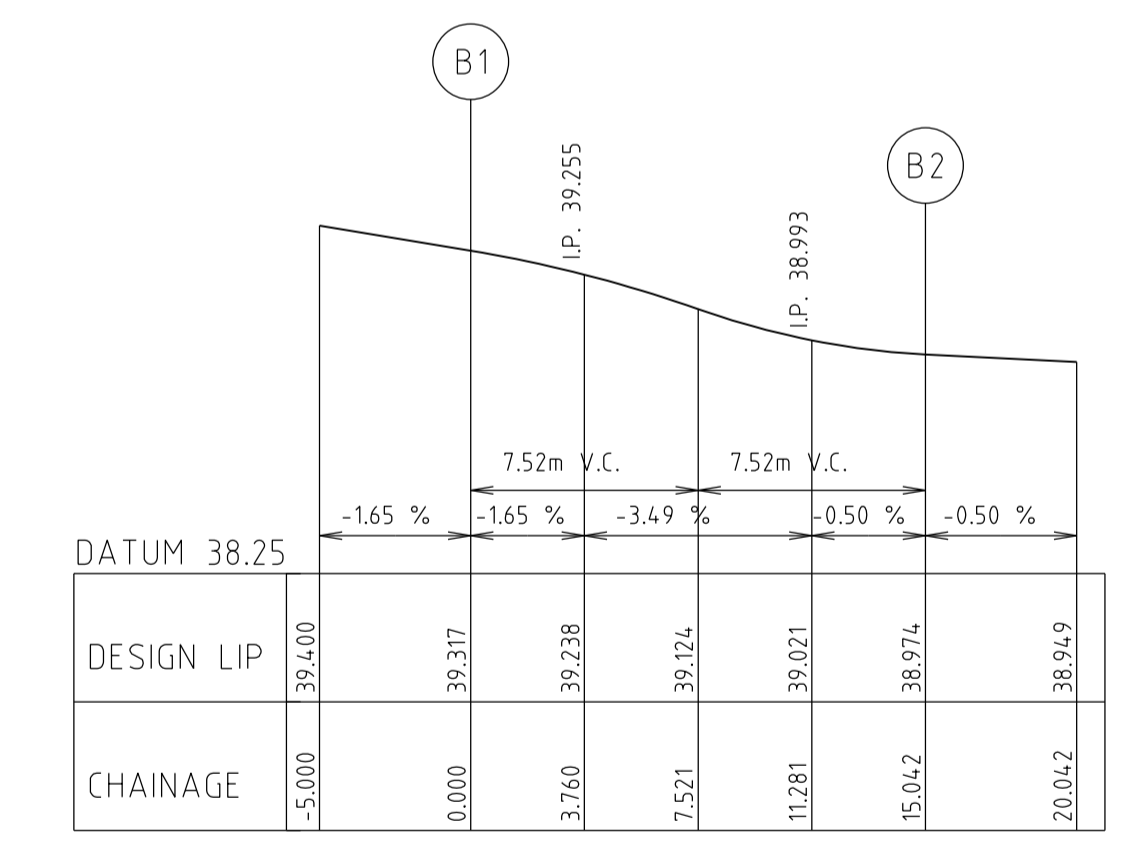
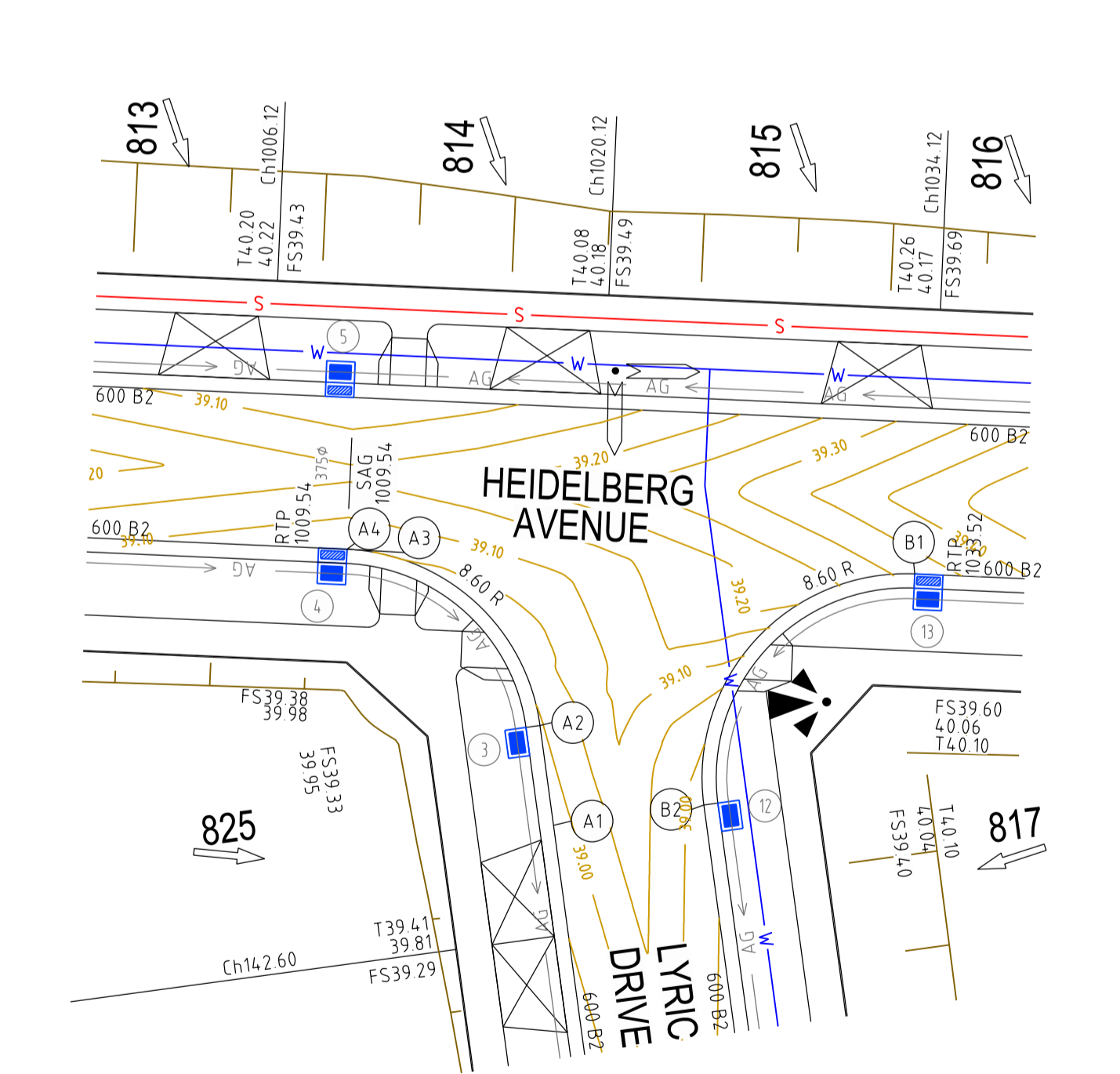


ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288719.935	5803597.829	38.974
A2	288719.361	5803602.046	38.995
1/4	288718.455	5803604.882	39.010
1/2	288716.636	5803607.240	39.025
A3	288714.122	5803608.835	39.040
A4	288711.215	5803609.478	39.055
A4	288711.210	5803609.478	39.055

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A2-A3	8.600	11.971	11.028	2.000	-0.515

LIP LINE A
Hor250
Ver25



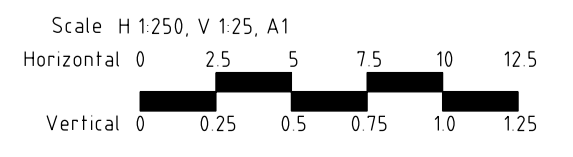
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288735.167	5803608.433	39.317
1/4	288731.494	5803607.783	39.238
1/2	288728.441	5803605.639	39.124
3/4	288726.583	5803602.404	39.021
B2	288726.270	5803598.687	38.974

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	15.042	13.196	3.084	-0.809

LIP LINE B
Hor250
Ver25

Rev	Amendments	Approved	Date
2	NORTHAM ST REGRADED, LIPS C & D PROFILES & TABLE UPDATED	M.L.	6/09/19
1	LIP C PROFILE & TABLE UPDATED	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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Designed
T. WONG
Authorised
M. LETSON

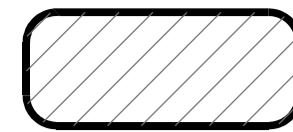
Checked
R. WEINBER
Date
16/01/19

**MAMBOURIN ESTATE
STAGE 8
INTERSECTION DETAILS**

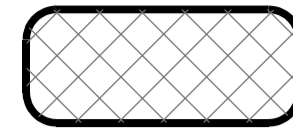
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No **305173R08** Rev **2**

CRUSHED ROCK BACKFILL LEGEND



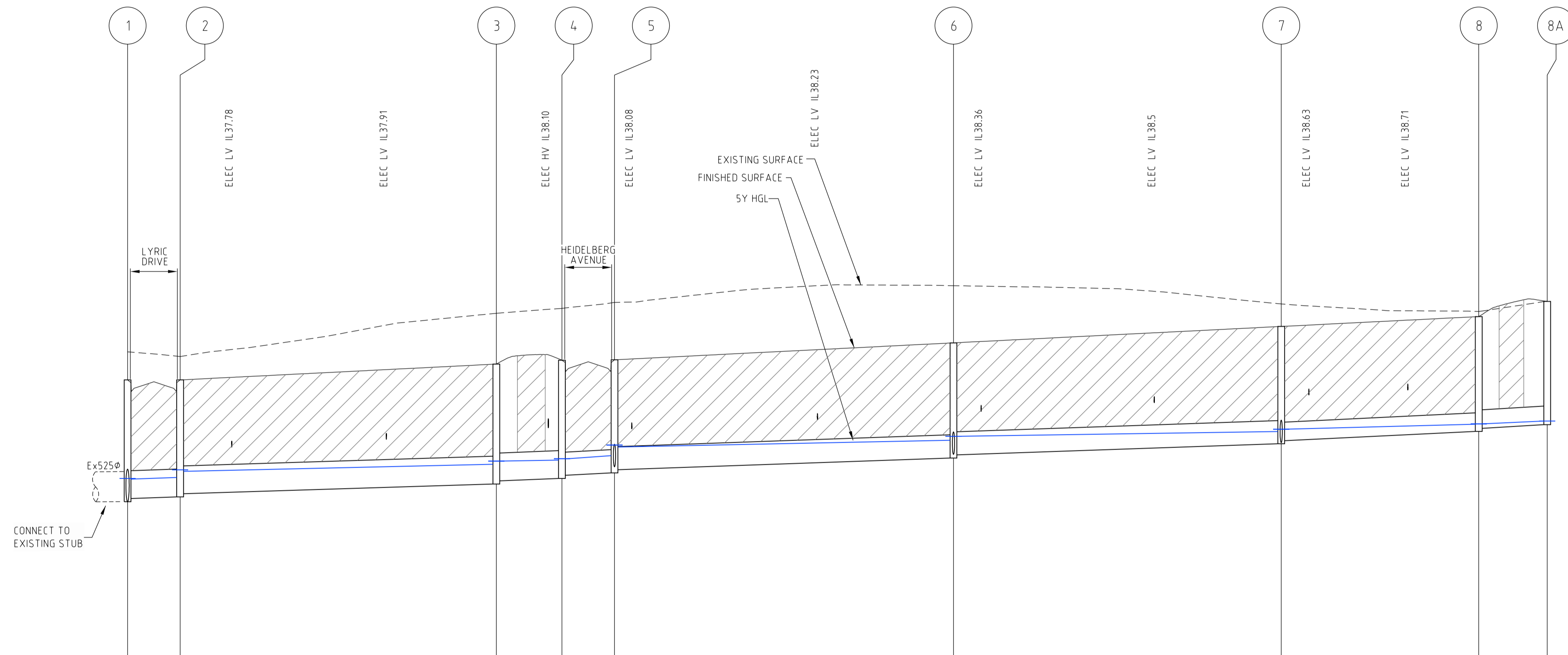
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

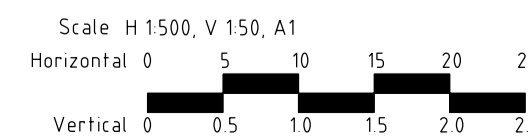
NOTE:

- 1 ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
- 2 DRAINAGE PIPES GREATER THAN 750 ϕ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS
- 3 CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE
- 4 CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK
- 5 CURVED PIPE ALIGNMENTS TO BE ARCHIVED USING EITHER:
 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION



Pipe Class	CLASS 2	CLASS 3	CLASS 2	CLASS 2	CLASS 3	CLASS 2	CLASS 2	CLASS 2	CLASS 2																
Pipe Diameter	450 ϕ	450 ϕ	450 ϕ	375 ϕ	375 ϕ	375 ϕ	375 ϕ	375 ϕ	300 ϕ																
Pipe Grade	1 in 303	1 in 324	1 in 265	1 in 212	1 in 289	1 in 294	1 in 294	1 in 213	1 in 185																
Vf (m/s)	Vf=1.160	Vf=1.123	Vf=1.242	Vf=1.237	Vf=1.060	Vf=1.049	Vf=1.049	Vf=1.072	Vf=1.152																
Q _{actual} (m ³ /s)	Q _a =0.152	Q _a =0.147	Q _a =0.128	Q _a =0.124	Q _a =0.098	Q _a =0.063	Q _a =0.063	Q _a =0.024	Q _a =0.006																
Q _{full} (m ³ /s)	Q _f =0.185	Q _f =0.179	Q _f =0.198	Q _f =0.137	Q _f =0.117	Q _f =0.116	Q _f =0.116	Q _f =0.076	Q _f =0.081																
DATUM R.L.	32.00																								
DEPTH TO INVERT	1.968	1.978	1.939	1.889	1.862	1.812	1.897	1.847	1.856	1.991															
DESIGN INVERT LEVEL	36.904	36.954	37.190	37.240	37.610	37.660	37.840	37.890	38.040	38.150															
HYDRAULIC GRADE LEVEL	37.208	37.280	37.509	37.561	37.896	37.961	38.038	38.075	38.157	38.207															
FINISHED SURFACE LEVEL	38.872	38.872	39.129	39.191	39.472	39.517	39.737	39.875	39.896	40.141															
EXISTING SURFACE LEVEL	39.326	39.251	40.028	39.191	40.126	40.396	40.101	39.980	39.980	40.147															
CHAINAGE	0.000	L=8.500m	8.500	L=51.142m	59.642	70.247	L=10.605m	81.852	L=8.500m	90.352	78.747	L=10.626m	89.378	L=54.822m	133.569	L=8.500m	142.069	L=53.000m	195.069	186.569	L=31.943m	218.512	L=11.074m	229.586	38.208

Rev	Description	Approved	Date
1	DRAINAGE LONGSECTIONS UPDATED	M.L.	6/09/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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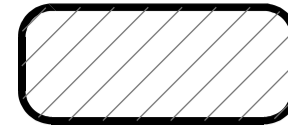
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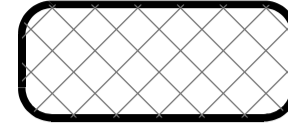
Checked
R. WEINBER
Date
16/01/19

**MAMBOURIN ESTATE
STAGE 8
DRAINAGE LONG SECTION
SHEET 1 OF 2**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No 305173R09 Rev 1

CRUSHED ROCK BACKFILL LEGEND



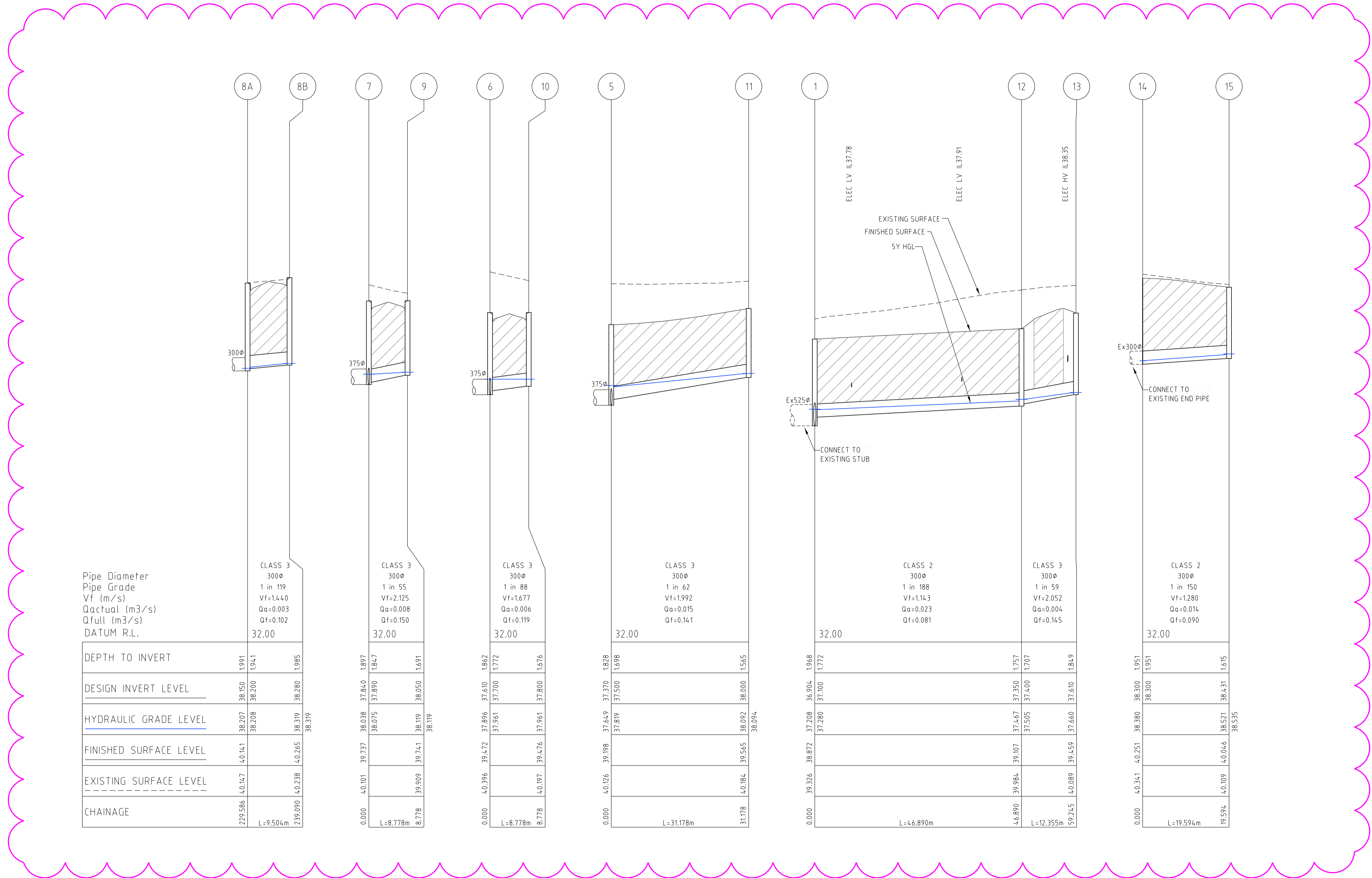
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

NOTE:

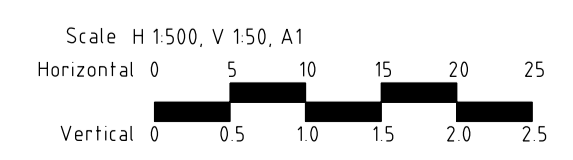
- 1 ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
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- 3 CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE. CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING AND PAVEMENT WORK.
- 4 CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION.



Pipe Diameter	Pipe Grade	Vf (m/s)	Q _{actual} (m ³ /s)	Q _{full} (m ³ /s)	DATUM R.L.
300 ϕ	1 in 119	1.440	0.003	0.102	32.00
300 ϕ	1 in 55	2.125	0.008	0.150	32.00
300 ϕ	1 in 88	1.677	0.006	0.119	32.00
300 ϕ	1 in 62	1.992	0.015	0.141	32.00
300 ϕ	1 in 188	1.143	0.023	0.081	32.00
300 ϕ	1 in 59	2.052	0.004	0.145	32.00
300 ϕ	1 in 150	1.280	0.014	0.090	32.00

DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
229.586	38.150	38.207	40.141	40.147	0.000
	38.200	38.208	40.265	40.238	8.778
	38.280	38.319	38.319		19.594m
	38.119	38.119			
	38.050	38.050			
	1.691	1.691			
	1.897	1.897			
	1.847	1.847			
	1.772	1.772			
	1.676	1.676			
	1.698	1.698			
	1.565	1.565			
	1.968	1.968			
	1.772	1.772			
	1.757	1.757			
	1.707	1.707			
	1.849	1.849			
	1.951	1.951			
	1.615	1.615			
	38.535	38.535			

Rev	Description	Approved	Date
2	DRAINAGE LONGSECTIONS UPDATED	M.L.	6/09/19
1	FINISHED & DEPTH TO INVERT LEVELS UPDATED FROM PIT 14 TO 19 & PIT 22 TO 23	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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R. WEINBER
Date
16/01/19

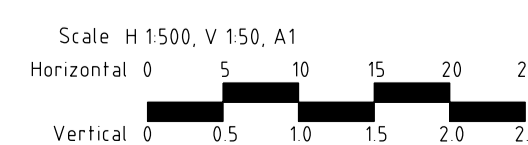
**MAMBOURIN ESTATE
 STAGE 8
 DRAINAGE LONG SECTION
 SHEET 2 OF 2**
 FRASER PROPERTY AUSTRALIA
 CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R10 Rev 2

DRAINAGE PIT SCHEDULE

PIT NAME	PIT TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	SIDE ENTRY PIT GRATED	900	900			525	36.904	38.872	1.968	REFER DRAWING - EDCM 601 (PROVIDE HAUNCHING UNDER KERB)
				450	36.954					CONSTRUCT PIT OVER EXISTING END PIPE.
				300	37.100					
2	SIDE ENTRY PIT GRATED	900	600	450	37.032	450	36.982	38.872	1.890	REFER DRAWING - EDCM 601
3	JUNCTION PIT	900	600	450	37.240	450	37.190	39.129	1.939	REFER DRAWING - EDCM 605
4	SIDE ENTRY PIT GRATED	900	600	375	37.330	450	37.280	39.191	1.911	REFER DRAWING - EDCM 601
5	SIDE ENTRY PIT GRATED	900	600	375	37.420	375	37.370	39.198	1.828	REFER DRAWING - EDCM 601
				300	37.500					
6	SIDE ENTRY PIT GRATED	900	600	375	37.660	375	37.610	39.472	1.862	REFER DRAWING - EDCM 601
				300	37.700					
7	SIDE ENTRY PIT GRATED	900	600	300	37.890	375	37.840	39.737	1.897	REFER DRAWING - EDCM 601
				300	37.890					
8	JUNCTION PIT	900	600	300	38.090	300	38.040	39.896	1.856	REFER DRAWING - EDCM 605
8A	SIDE ENTRY PIT GRATED	900	600	300	38.200	300	38.150	40.141	1.991	REFER DRAWING - EDCM 601
8B	SIDE ENTRY PIT GRATED	900	600			300	38.280	40.265	1.985	REFER DRAWING - EDCM 601
9	SIDE ENTRY PIT GRATED	900	600			300	38.050	39.741	1.691	REFER DRAWING - EDCM 601
10	SIDE ENTRY PIT GRATED	900	600			300	37.800	39.476	1.676	REFER DRAWING - EDCM 601
11	JUNCTION PIT	900	600			300	38.000	39.565	1.565	REFER DRAWING - EDCM 605
12	JUNCTION PIT	900	600	300	37.400	300	37.350	39.107	1.757	REFER DRAWING - EDCM 605
13	SIDE ENTRY PIT GRATED	900	600			300	37.610	39.459	1.849	REFER DRAWING - EDCM 601
14	EXISTING END PIPE			300	38.300			40.251	1.951	CONNECT EXISTING END PIPE CONSTRUCTED WITH STAGE 6 WORKS
15	SIDE ENTRY PIT GRATED	900	600			300	38.431	40.046	1.615	REFER DRAWING - EDCM 601

2	PIT SCHEDULE UPDATED	M.L	6/09/19
1	ELEC CROSSINGS UPDATED. PITS 14 TO 19 & PITS 23 TO 23 FINISHED & DEPTH LEVELS UPDATED	M.L	26/06/19
0	CONSTRUCTION ISSUE	M.L	27/05/19
Rev	Amendments	Approved	Date



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M. LETSON

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R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE
 STAGE 8
 DRAINAGE PIT SCHEDULE

FRASER PROPERTY AUSTRALIA
 CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R11

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		ACCESS STREET LVL 1
A	ASPHALT WEARING COURSE Size 10mm Type N, Class 170 binder	30
B	ASPHALT BASE COURSE Size 10mm Type N, Class 170 binder	30
C	SAMI (size 10 (Class S18RF) Bituminous Prime	nominal
D	GRANULAR BASE 20mm Class 2 Fine Crushed Rock	130
UPPER PAVEMENT TOTAL		190
E	GRANULAR SUBBASE Class 3 Fine Crushed Rock	240
F	CAPPING LAYER Type A material - Properties: CBR > 8.0%, Swell < 15 %, Permeability < 1E-9 m/s To be compacted in 2 layers	150
G	ADDITIONAL SUBGRADE IMPROVEMENT Type A - Working platform achieving CBR > 10%, Properties: CBR > 8.0%, Swell < 15 %, Permeability < 1E-9 m/s To be compacted in 2 layers	150
TOTAL PAVEMENT DEPTH		730

NOTE:
REFER TO COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%

GENERAL NOTES:

- 1 ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- 2 ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH
- 3 CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS
- 4 PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE
- 5 CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING
- 6 SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR
- 7 ALL DOWELS TO BE GRADE 250R STEEL BARS, 450mm LONG AND PLACED AT 300mm CENTRES. REFER CCAA- "CONCRETE PAVEMENT DESIGN FOR RESIDENTIAL STREETS" FOR DOWEL DIAMETERS. DOWELS MUST BE ACCURATELY PLACED TO ENSURE THE JOINT DOES NOT "LOCK". INSERTION OF DOWELS DURING THE PLACING OF CONCRETE IS NOT ACCEPTABLE. DOWELS MUST BE SAWN AND NOT CROPPED
- 8 ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER

PAVEMENT DETAILS

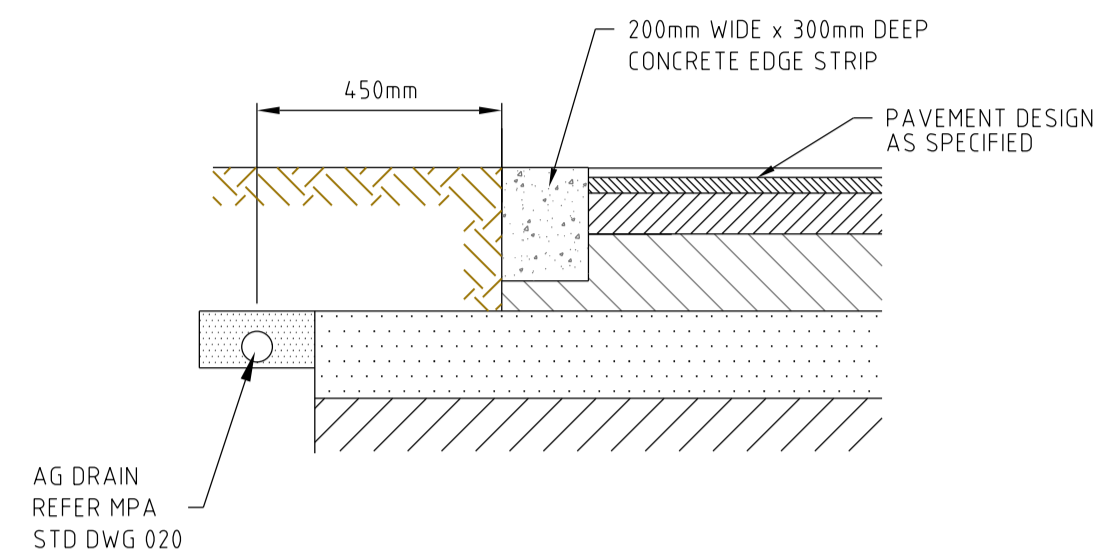
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY SERVICES AUSTRALIA PTY LTD WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY SERVICES AUSTRALIA PTY LTD

THE DESIGN HAS BEEN EXTRACTED FROM THE COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" THIS DOCUMENT SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED. A COPY OF THE DOCUMENT WILL BE PROVIDED TO YOU ON REQUEST

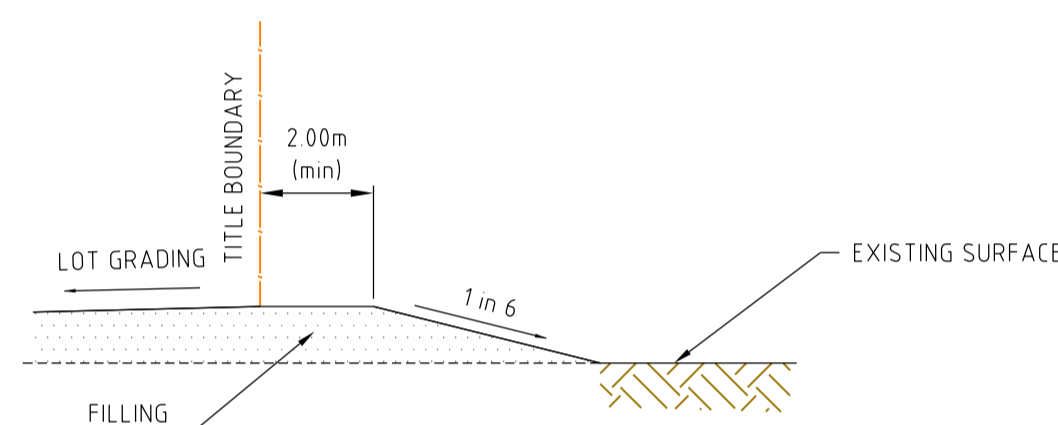
SPIIRE DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE ACCURACY, ADEQUACY OR APPROPRIATENESS OF THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS. ANY QUERIES IN RESPECT TO THE GEOTECHNICAL WORK AND PAVEMENT DESIGNS SHOULD BE ADDRESSED TO COFFEY SERVICES AUSTRALIA PTY LTD AND SENT TO SPIIRE

ROAD TYPE DESIGNATIONS

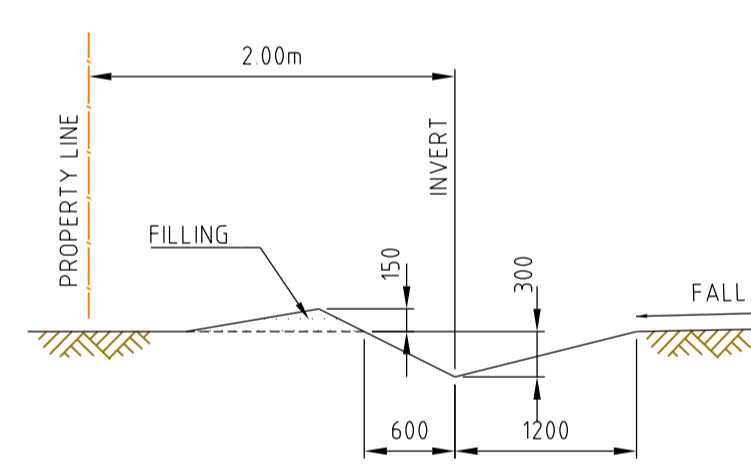
ROAD NAME	ROAD PAVEMENT TYPE
NORTHAM STREET	ACCESS STREET LEVEL 1
HEIDELBERG AVENUE	ACCESS STREET LEVEL 1
LYRIC DRIVE	ACCESS STREET LEVEL 1



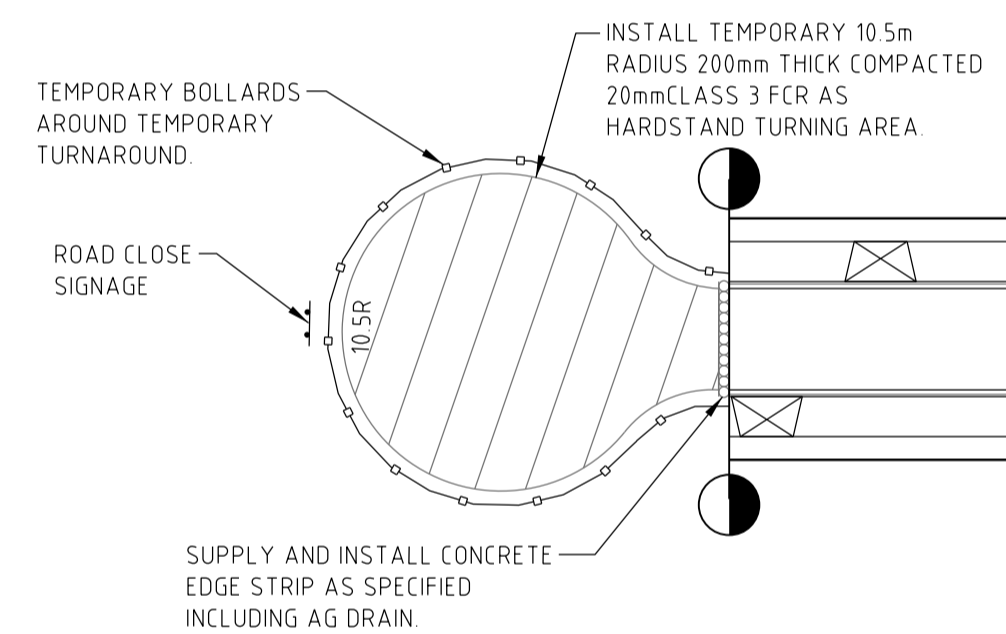
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE - DETAIL
N T S



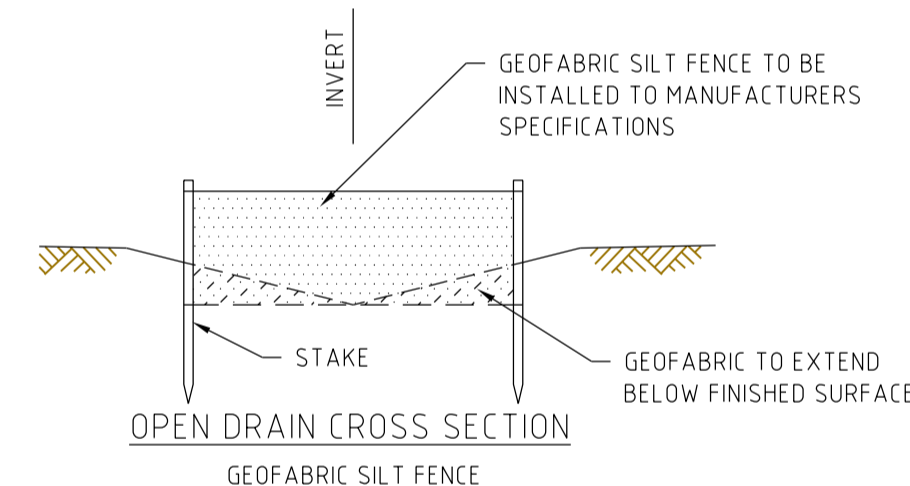
LOT FILLING AT STAGE BOUNDARY
N T S



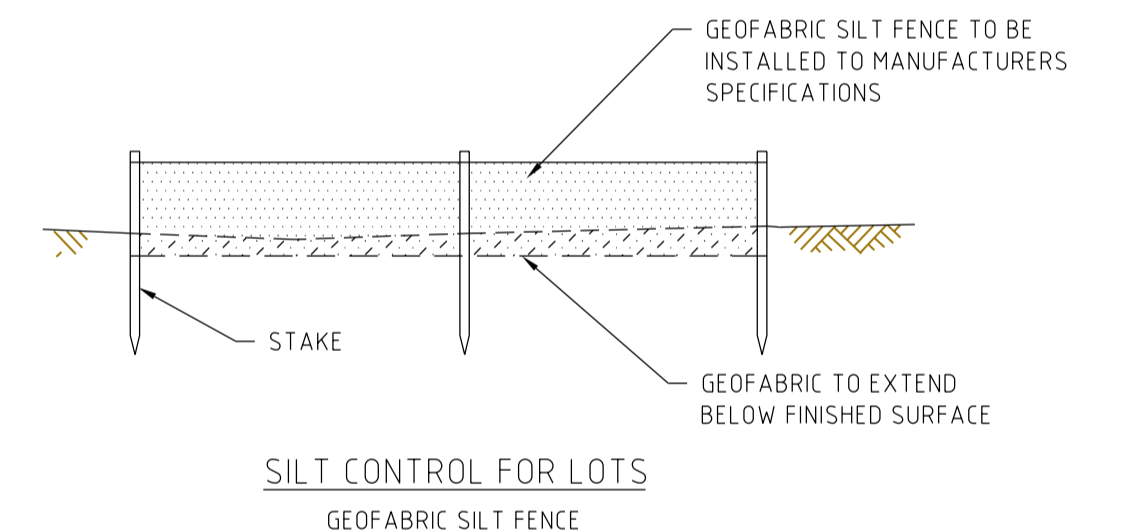
TYPICAL CATCH DRAIN SECTION
N T S



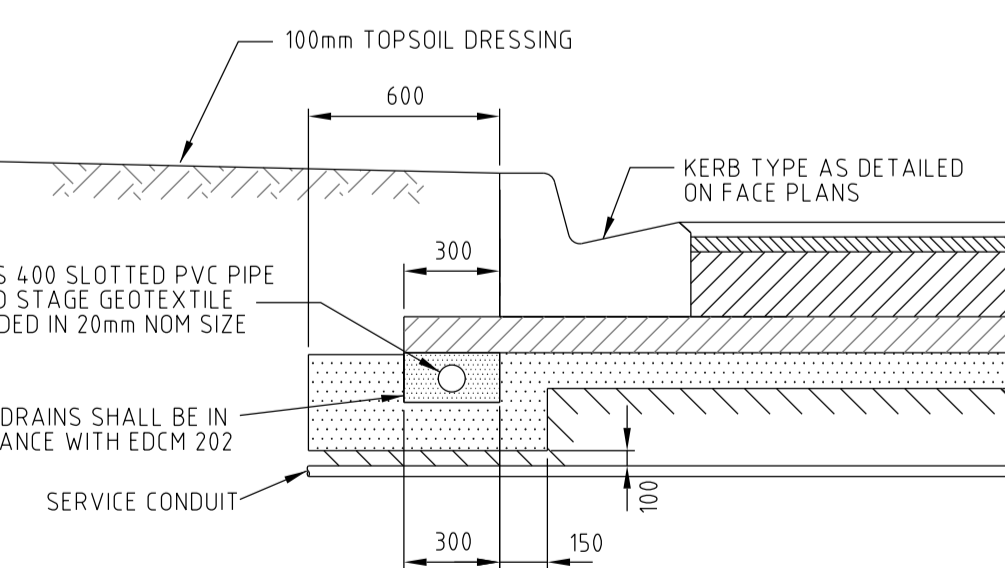
TEMPORARY TURNING AREA DETAIL
N T S



OPEN DRAIN CROSS SECTION

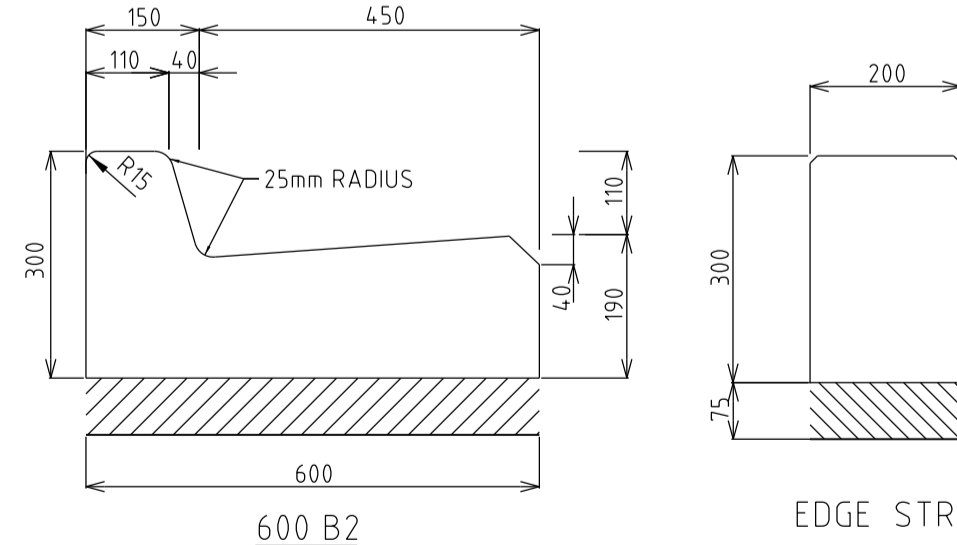


SILT CONTROL OPTIONS
NOT TO SCALE



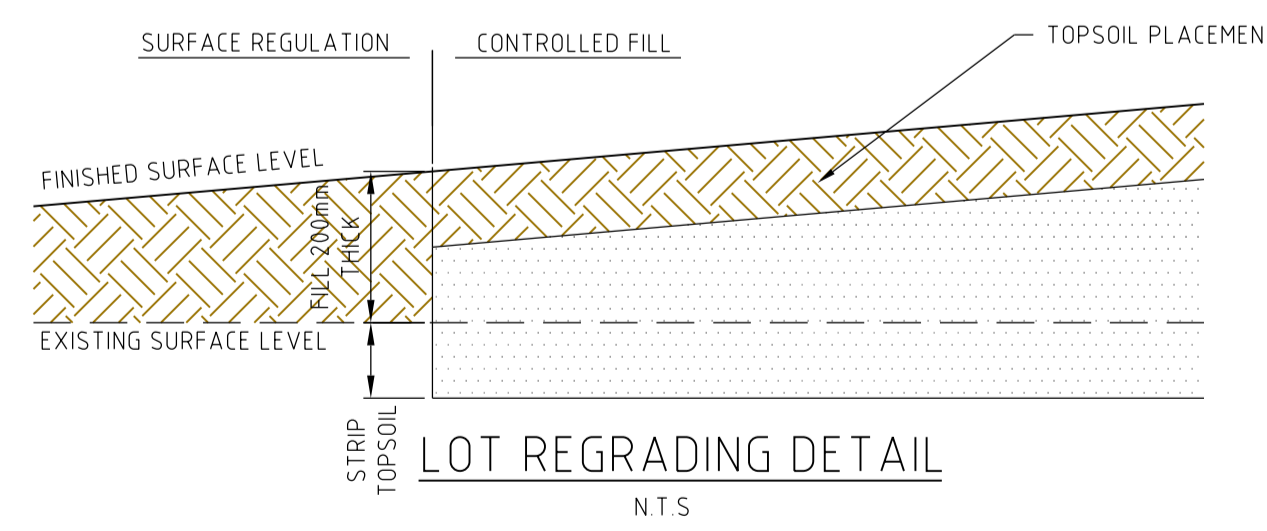
NEW CONSTRUCTION
N T S

NOTE FOR SAMI TREATMENT
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 4.08 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD.

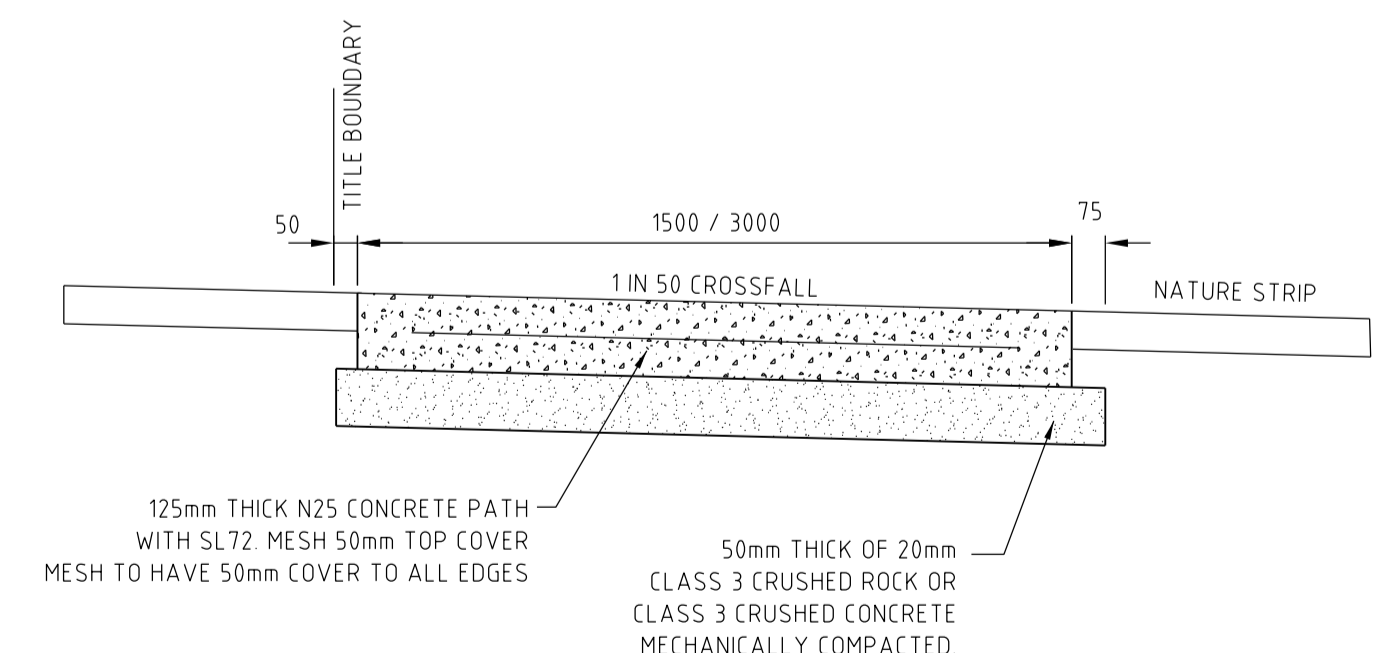


STANDARD KERB PROFILES
NOT TO SCALE

- NOTES:
- 1 ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
 - 2 ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.



LOT REGRADING DETAIL
N T S



TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION
N T S



PAVEMENT PLAN
1:1000, A1

NOT TO SCALE



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Designed
T. WONG
Authorised
M. LETSON

Checked
R. WEINBER
Date
16/01/19

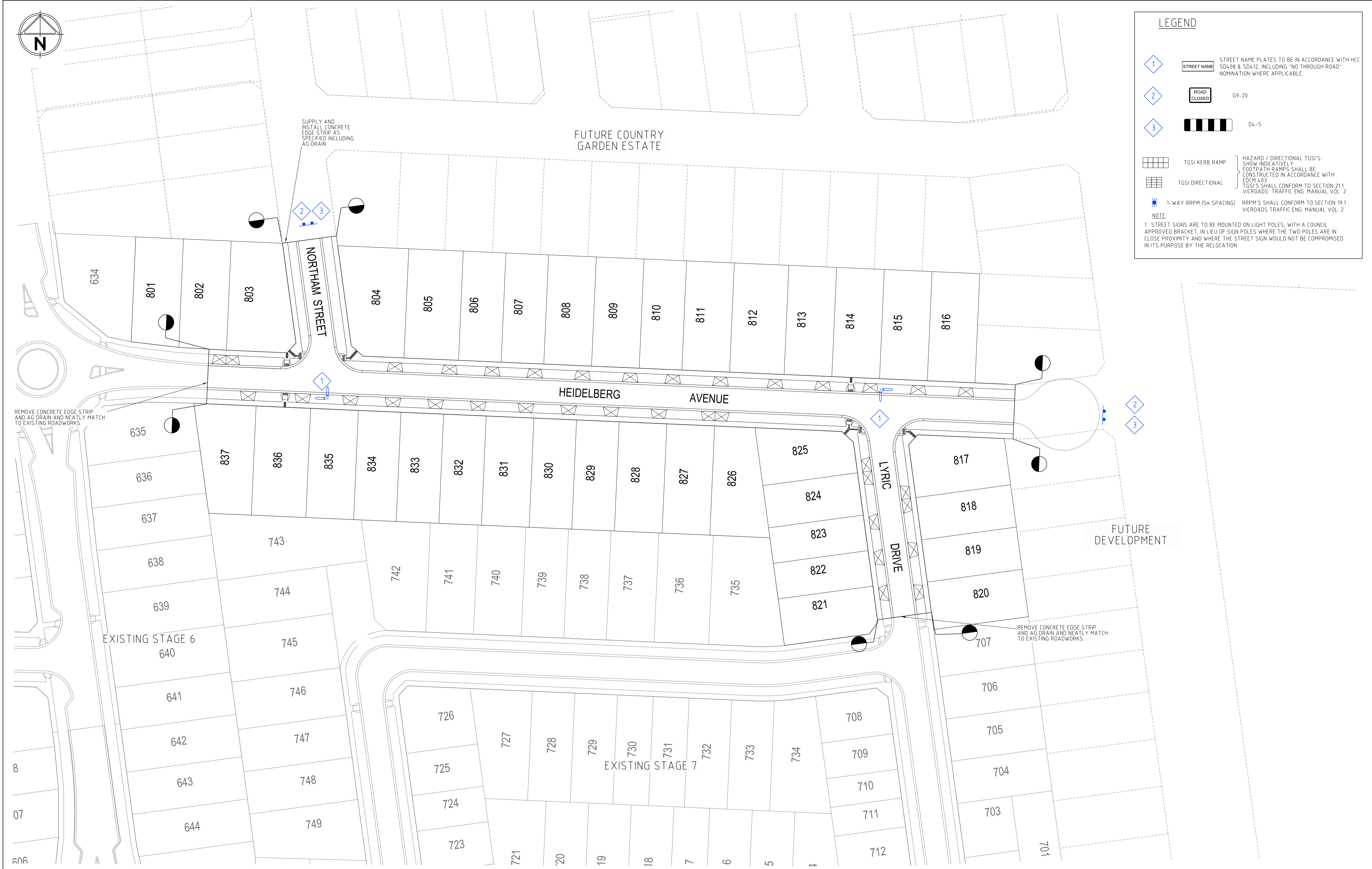
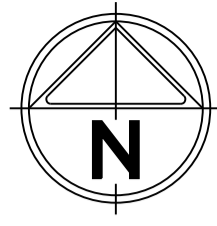
**MAMBOURIN ESTATE
STAGE 8
PAVEMENT PLAN AND TYPICAL DETAILS**

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R12

Rev 0

Rev	Description	Approved	Date
0	CONSTRUCTION ISSUE	M.L.	27/05/19
	Amendments		



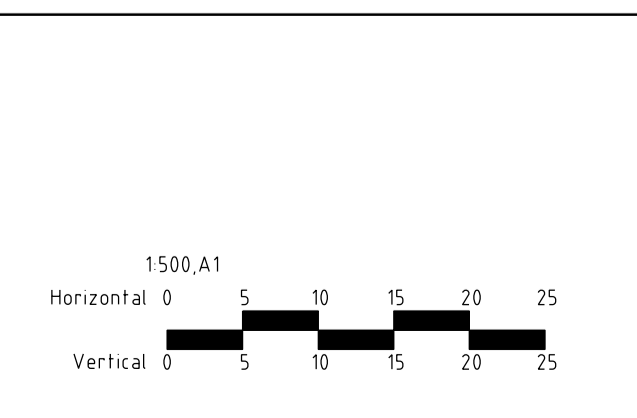
LEGEND

- STREET NAME** STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD4.08 & SD4.12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- ROAD CLOSED** G9-20
- HAZARD / DIRECTIONAL TGSIS** D4-5
- TGSI KERB RAMP** HAZARD / DIRECTIONAL TGSIS SHOW INDICATIVELY. FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDM 403
- TGSI DIRECTIONAL** TGSIS SHALL CONFORM TO SECTION 211 VICROADS TRAFFIC ENG MANUAL VOL. 2
- 1-WAY RRPM (5m SPACING)** RRPM'S SHALL CONFORM TO SECTION 19.1 VICROADS TRAFFIC ENG MANUAL VOL. 2

NOTE

1. STREET SIGNS ARE TO BE MOUNTED ON LIGHT POLES, WITH A COUNCIL APPROVED BRACKET, IN LIEU OF SIGN POLES WHERE THE TWO POLES ARE IN CLOSE PROXIMITY AND WHERE THE STREET SIGN WOULD NOT BE COMPROMISED IN ITS PURPOSE BY THE RELOCATION.

Rev	Description	Approved	Date
0	CONSTRUCTION ISSUE	M.L.	27/05/19
	Amendments		



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FRASERS PROPERTY

Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

**MAMBOURIN ESTATE
STAGE 8
SIGNAGE & LINEMARKING**

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305173R13 Rev 0