

Your Ref: Proclaim No: SDW2782/18

Our Ref: WYP10554/17

Enquiries: *Apryl Astudillo*
Tel: (03) ext 2494

12 September 2019

Michael Letson
Spiire Australia Pty Ltd
L 6 414 La Trobe St
MELBOURNE VIC 3000

Dear Michael,

RE: MAMBOURIN STAGE 6 - AMENDMENTS TO CONSTRUCTION PLAN APPROVAL

Please be advised that the amended construction plans submitted to Council for Mambourin Stage 6 are approved.

A copy of the following approved plans have been enclosed for your information.

- Drawing No. 305171R01 Revision 5
- Drawing No. 305171R02 Revision 3
- Drawing No. 305171R03 Revision 2
- Drawing No. 305171R05 Revision 1
- Drawing No. 305171R06 Revision 1
- Drawing No. 305171R07 Revision 1
- Drawing No. 305171R09 Revision 3
- Drawing No. 305171R010 Revision 1
- Drawing No. 305171R011 Revision 1
- Drawing No. 305171R012 Revision 3
- Drawing No. 305171R013 Revision 2
- Drawing No. 305171R016 Revision 3
- Drawing No. 305171R017 Revision 1
- Drawing No. 305171R018 Revision 1

Yours sincerely,



APRYL ASTUDILLO
SENIOR DEVELOPMENT ENGINEER





Civic Centre
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ABN: 38 393 903 860

Your Ref:

Our Ref: SDW2782/18
WYP10554/17

Enquiries: Moein Gheybi
Tel: (03) ext 2494

06 June 2019

Spiire Australia Pty Ltd
L 6 414 La Trobe St
MELBOURNE VIC 3000

Dear Michael Letson

RE: MAMBOURIN STAGE 6 - CONSTRUCTION PLAN APPROVAL

Please be advised that the road and drainage construction plans submitted to Council for Mambourin Stage 6 are approved subject to the following conditions:-

1. **Prior to commencement of works, an on-site pre-commencement meeting must be held between Council, the Engineering Consultant and the Contractor. Please contact Vincent Borg from Council on 0427 176 696 to book a precommencement meeting.**
2. **Prior to installation of any Tactile Ground Surface Indicators, the proposed product must be inspected and approved by Council. Please notify Councils construction supervisor to book an inspection prior to installation.**
3. **Prior to commencement of works, the Plan of Subdivision must be certified by Council.**
4. **Prior to commencement of approved works within ANY existing road reserves, the consultant/contractor MUST apply for consent to work within the road reserves from Council or any other relevant responsible authorities. The Contractor will be responsible for maintain all existing assets within the limit of works as demonstrated on the approved plans.**
5. **A free-flowing drainage outlet must be established and maintained throughout the entirety of construction works. No road boxing works are to commence in the absence of a free-flowing drainage outlet.**
6. Prior to commencement of works, the consultant/contractor shall provide to Council the following information:-
 - source of quarry material; and
 - optimum moisture content and maximum modified dry density of the F.C.R to be used (from N.A.T.A. approved laboratory).

If the source of the quarry material is changed during the course of the works, new test results shall be provided.

7. Prior to the commencement of works, a Site Environmental Management Plan (SEMP) must be submitted to and **approved** by Council.
8. Construction is to commence within twelve (12) months of approval, otherwise construction plans and specifications are to comply with design standards current at the time of re-submission.
9. Filled allotments shall be compacted in 150mm maximum layers, with compaction tests being taken at not more than 300mm lift on all allotments and filled areas. The test results and location of the tests on each allotment shall be forwarded to Council.

10. Wyndham City Council Specifications and standard details shall be read in conjunction with the approved plans.
11. Prior to Council issuing a Statement of Compliance, pursuant to the Subdivision Act 1988, your firm shall provide to Council the following:
- Payment of construction supervision fees amounting to 2.5% of the total cost of road and drainage works;
 - Payment of a maintenance bond amounting to 5% of the total cost of road and drainage works;
 - An electronic copy of all as constructed drawings and relevant files in both AutoCad DWG and Adobe PDF file formats, to either subdiveng@wyndham.vic.gov.au or via Objective Connect. Please note that the minimum resolution of PDF files required is 300dpi;
 - An electronic copy of drainage catchment plans and detailed computations in Adobe PDF file format to either subdiveng@wyndham.vic.gov.au or via Objective Connect;
 - As constructed asset information for drainage and related assets in digital format in accordance with "D-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
 - As-constructed asset information for assets within the road reserve in digital format in accordance with "R-Spec" to either subdiveng@wyndham.vic.gov.au or via Objective Connect; and
 - The A.H.D levels and M.G.A co-ordinates of the high stability P.S.Ms.
 - For further information please see: <https://www.wyndham.vic.gov.au/subdivisionguidelines>
12. Easements are to be created to cover all services which cross any part of private allotments.
13. During construction of works under this permit, access to and egress from the subject land must be via a route designed and approved by the Council. Where practical this access should be remote from established residential areas.
14. Provide Landscaping Plan for approval by Council. Please contact subdivlud@wyndham.vic.gov.au to arrange a pre-application meeting prior to the submission of landscape plans for municipal reserves and/or public open space.
15. WorkSafe Victoria is to be advised via E-mail (construction@workcover.vic.gov.au) of these Subdivisional works with the following details:
- Name of the principal contractor
 - Name and phone contact of relevant Engineering Consultants supervisor dealing with the works
 - Brief description of the works
 - Locality/address of the works
 - Estimated commencement date of the works, and
 - Expected completion date of the works.
16. In undertaking the construction works, the developer shall ensure all works are undertaken in accordance with the OH & S Act, Regulation and Codes, and shall maintain a safe workplace for Council's staff undertaking inspections. The supervision of works by Council staff only extends to the quality of Council's future infrastructure and does not include ensuring that the works are undertaken safely.

Please find a set of stamped approved plans attached.

Yours sincerely,



APRYL ASTUDILLO

SENIOR DEVELOPMENT ENGINEER

Encl: (1) Stamped approved plans

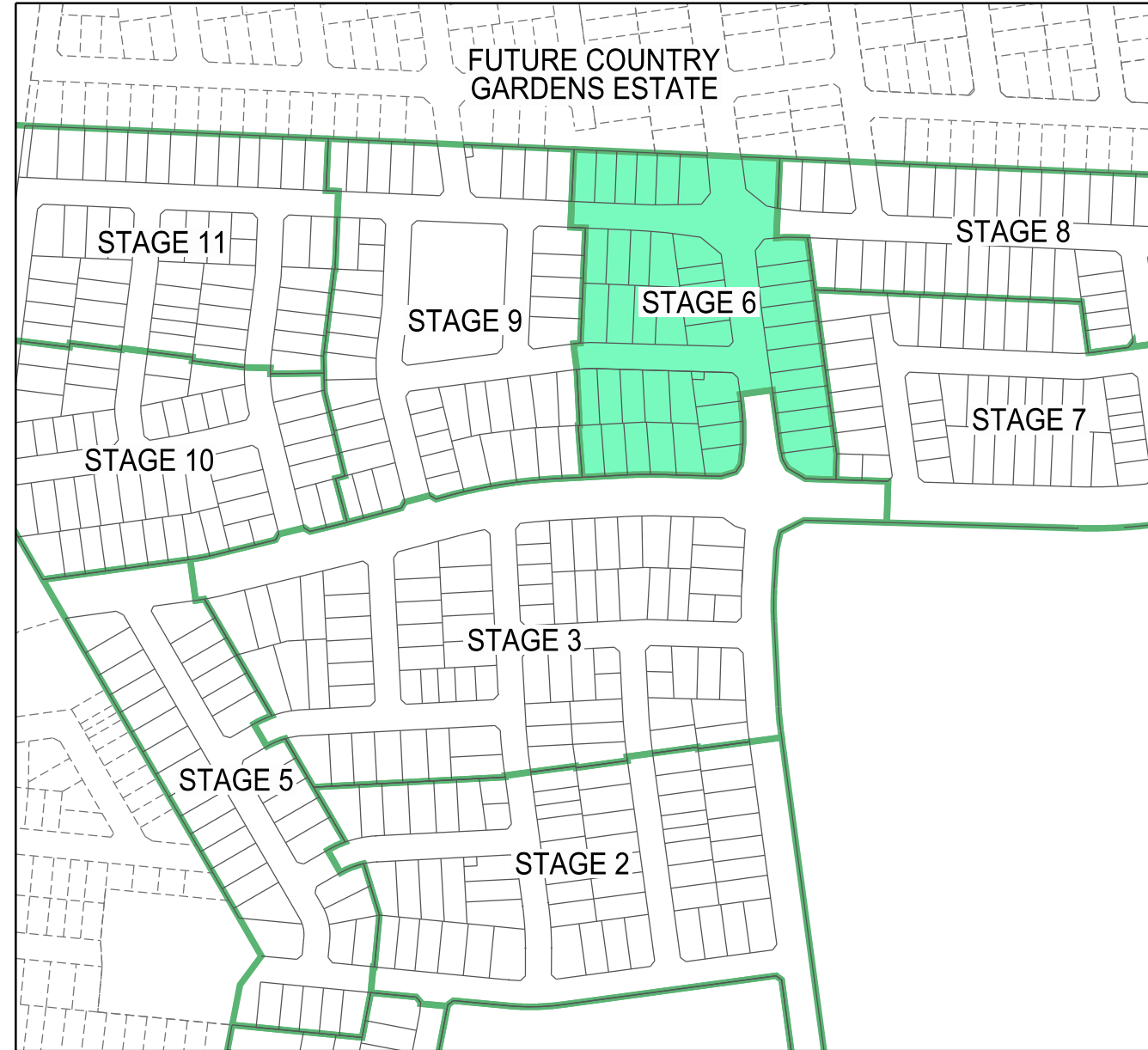
MAMBOURIN ESTATE STAGE 6

FRASERS PROPERTY

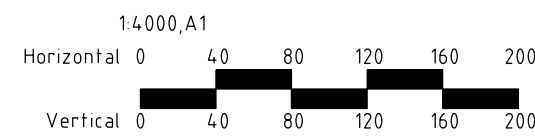
AUSTRALIA

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 $\pm 0.05\text{m}$.
- 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:
Ø50mm 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.
- OPTICOMM 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. SEMP 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 S02-5.
- 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 150MM 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



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 12/09/2019

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
305171R01	FACE SHEET	1	5
305171R02	ROAD & DRAINAGE FACE PLAN	2	3
305171R03	ROAD & DRAINAGE SERVICES PLAN	3	2
305171R04	LONGITUDINAL SECTIONS - BARRABOOL BLVD & HUTCHISON ROAD	4	0
305171R05	LONGITUDINAL SECTIONS - HEIDELBERG AVENUE & MAYVALE STREET	5	1
305171R06	CROSS SECTIONS - BARRABOOL BLVD & HUTCHISON ROAD	6	1
305171R07	CROSS SECTIONS - HEIDELBERG AVENUE	7	1
305171R08	CROSS SECTIONS - MAYVALE STREET	8	0
305171R09	INTERSECTION DETAILS - SHEET 1 OF 3	9	3
305171R10	INTERSECTION DETAILS - SHEET 2 OF 3	10	1
305171R11	INTERSECTION DETAILS - SHEET 3 OF 3	11	1
305171R12	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 4	12	3
305171R13	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 4	13	2
305171R14	DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 4	14	0
305171R15	DRAINAGE LONGITUDINAL SECTIONS - SHEET 4 OF 4	15	0
305171R16	PIT SCHEDULE	16	3
305171R17	SIGNAGE & LINE MARKING PLAN	17	1
305171R18	PAVEMENT PLAN & TYPICAL DETAILS	18	1



WARNING
BEWARE OF UNDERGROUND/OVERHEAD SERVICES
THE LOCATION OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. SPECIAL CONSIDERATION SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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	SRM	SRM
SEWER RISING MAIN		
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		
GAS & WATER CONDUITS		
CONCRETE VEHICLE CROSSING		
PAVEMENT SAWCUT LINE		
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 (& 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
5	DRAWING SCHEDULE UPDATED.	M.L.	10/09/19
4	DRAWING SCHEDULE UPDATED.	M.L.	05/09/19
3	DRAWING SCHEDULE UPDATED.	M.L.	26/07/19
2	GENERAL NOTES 16 & 22 UPDATED. DRAWING SCHEDULE UPDATED.	M.L.	26/06/19
1	DRAWING SCHEDULE UPDATED	M.L.	05/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



spiire

spiire.com.au ABN 55 050 029 635

FRASERS
PROPERTY

Designed
T. WONG
Authorised
M. LETSON

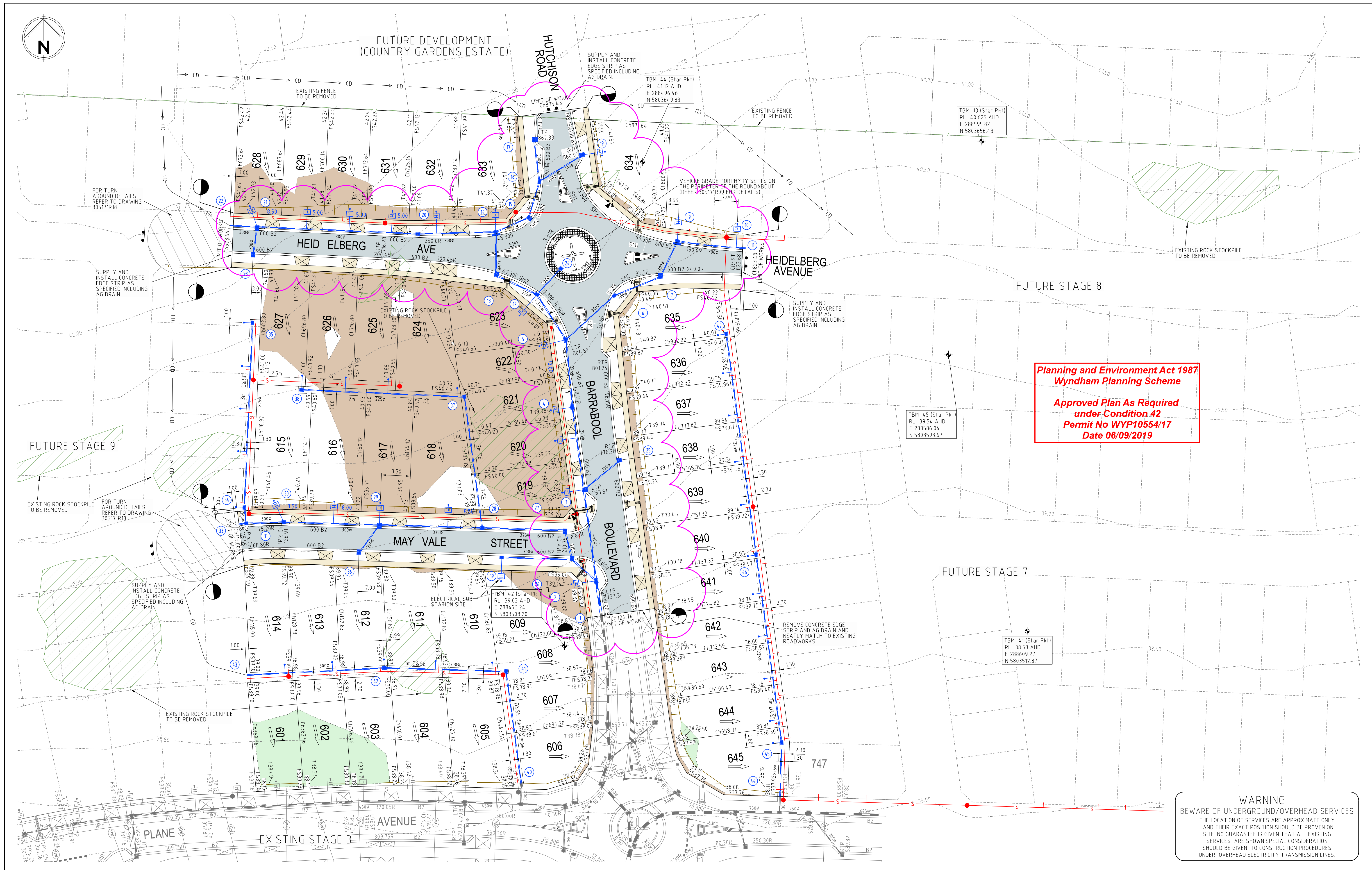
Checked
R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
FACE SHEET

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No
305171R01

Rev
5

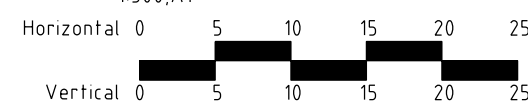


Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019

WARNING
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SERVICES ARE SHOWN. SPECIAL CONSIDERATION
SHOULD BE GIVEN TO CONSTRUCTION PROCEDURES
UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES

Rev	Amendments	Approved	Date
3	DRAINAGE AND SEWER ALIGNMENT UPDATED	M.L.	05/09/19
2	LOT 622 / 623 BOUNDARY MOVED.	M.L.	26/07/19
1	FINISH LEVEL & BATTER LEVEL FOR LOTS 634 & 635 UPDATED	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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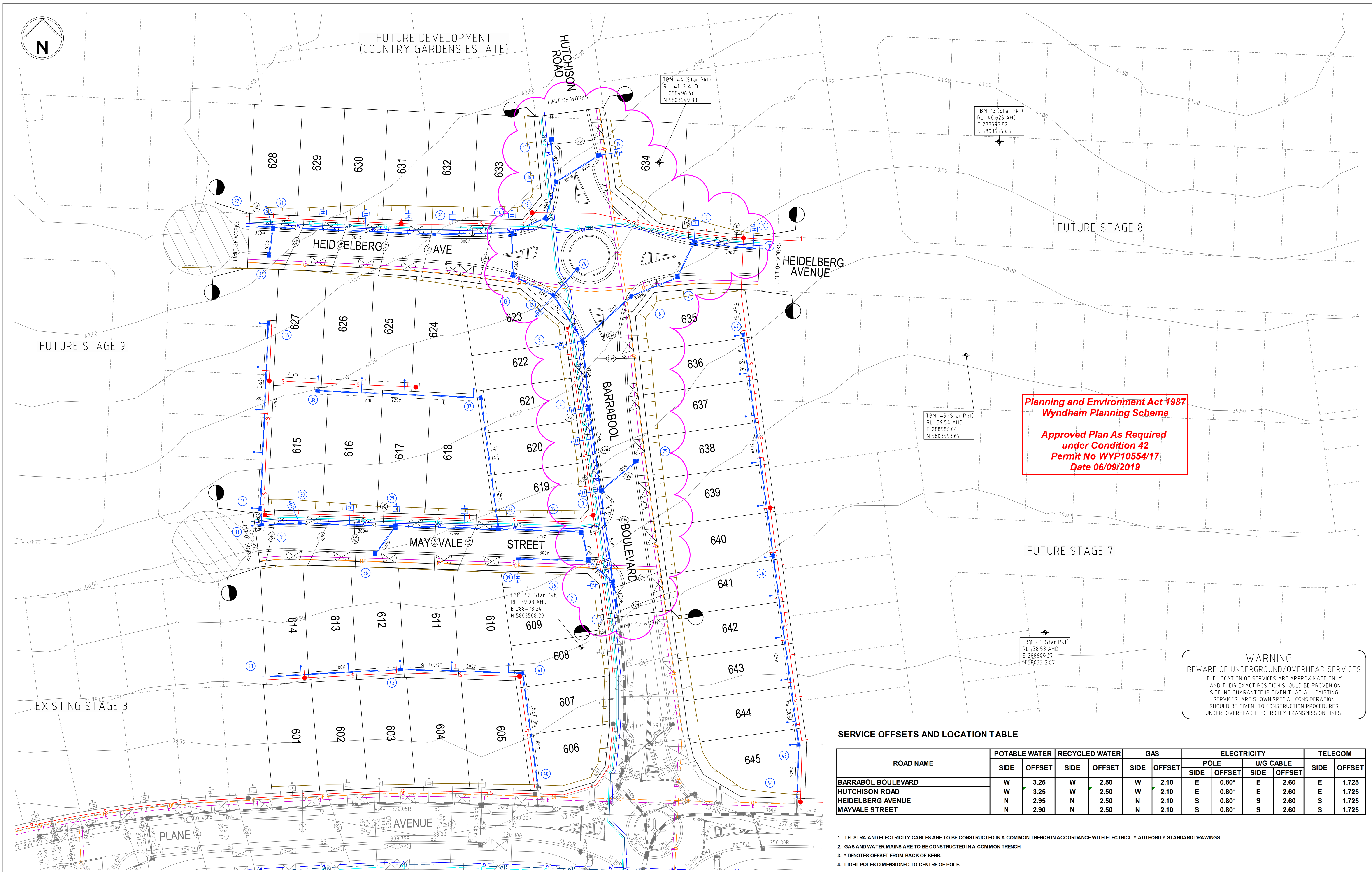
Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
ROAD & DRAINAGE
FACE PLAN
 FRASER PROPERTY AUSTRALIA
 CITY OF WYNDHAM
CONSTRUCTION Drg No 305171R02 Rev 3



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019

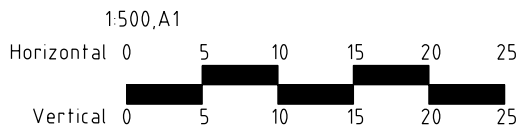
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UNDER OVERHEAD ELECTRICITY TRANSMISSION LINES.

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
BARRABOOL BOULEVARD	W	3.25	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
HUTCHISON ROAD	W	3.25	W	2.50	W	2.10	E	0.80*	E	2.60	E	1.725
HEIDELBERG AVENUE	N	2.95	N	2.50	N	2.10	S	0.80*	S	2.60	S	1.725
MAYVALE STREET	N	2.90	N	2.50	N	2.10	S	0.80*	S	2.60	S	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
2	DRAINAGE ALIGNMENT AND PIPE SIZES UPDATED, SEWER ALIGNMENT UPDATED.	M.L.	5/09/19
1	LOT 622 / 623 BOUNDARY MOVED.	M.L.	26/07/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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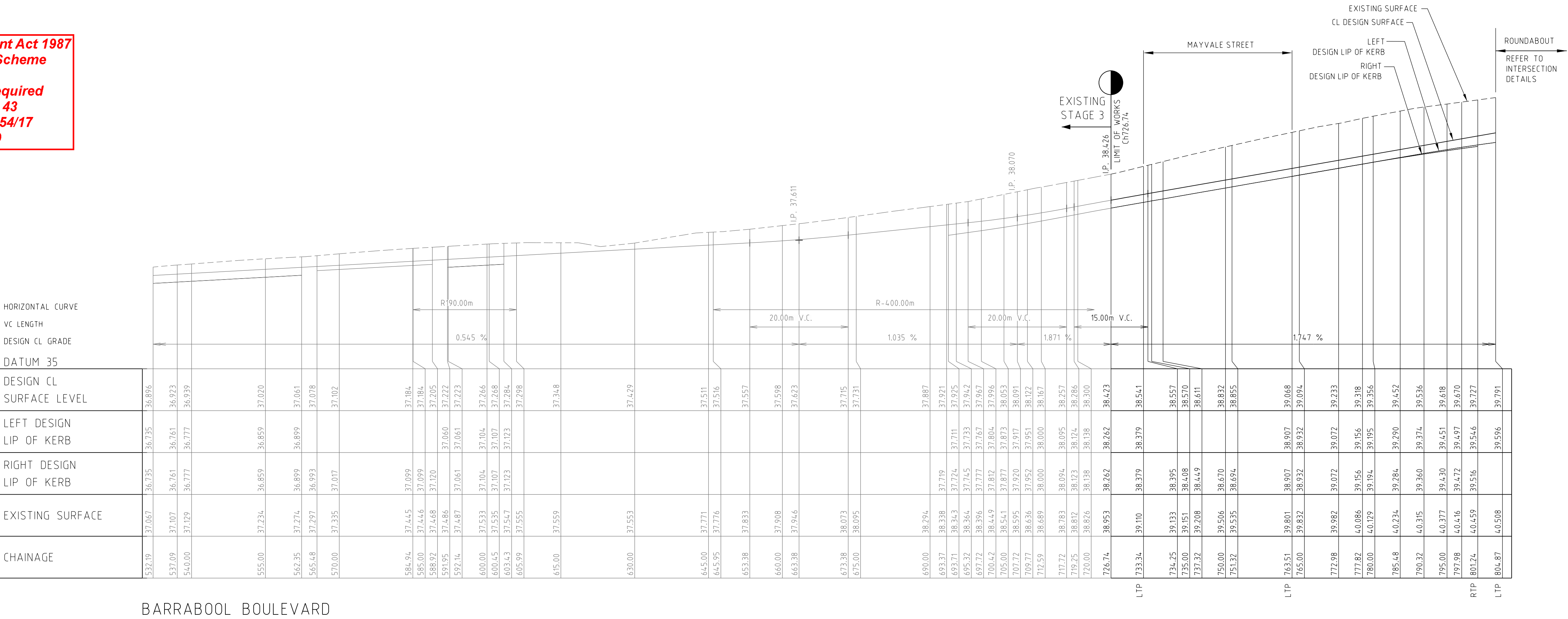
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spiire.com.au ABN 55 050 029 635

**FRASERS
PROPERTY**
Designed
T. WONG
Authorised
M. LETSON
Checked
R. WEINBER
Date
16/01/19

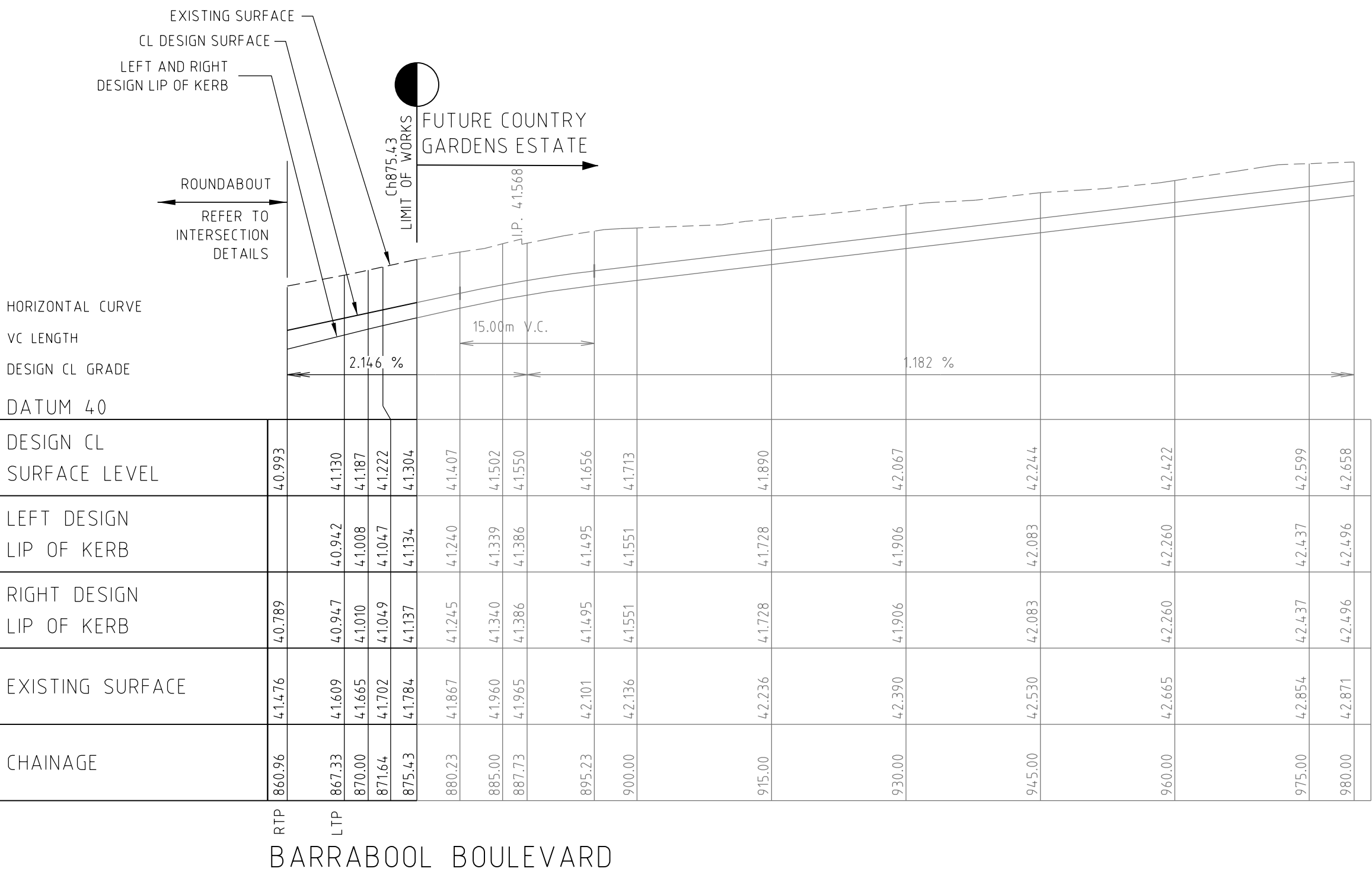
**MAMBOURIN ESTATE
STAGE 6
ROAD & DRAINAGE
SERVICES PLAN**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No 305171R03 Rev 2

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 43
Permit No WYP10554/17
Date 6/06/2019

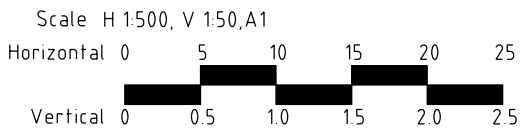


BARRABOOL BOULEVARD



BARRABOOL BOULEVARD

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



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ABN 55 050 029 635

FRASERS
PROPERTY

Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

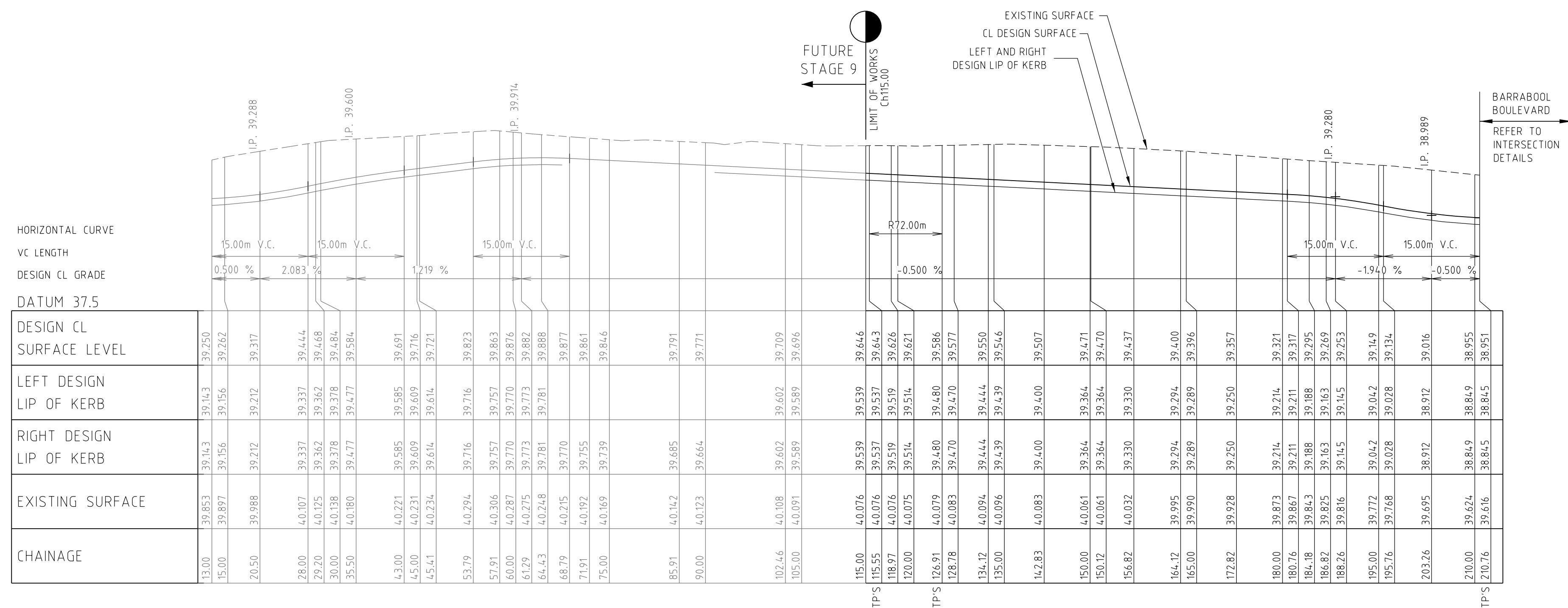
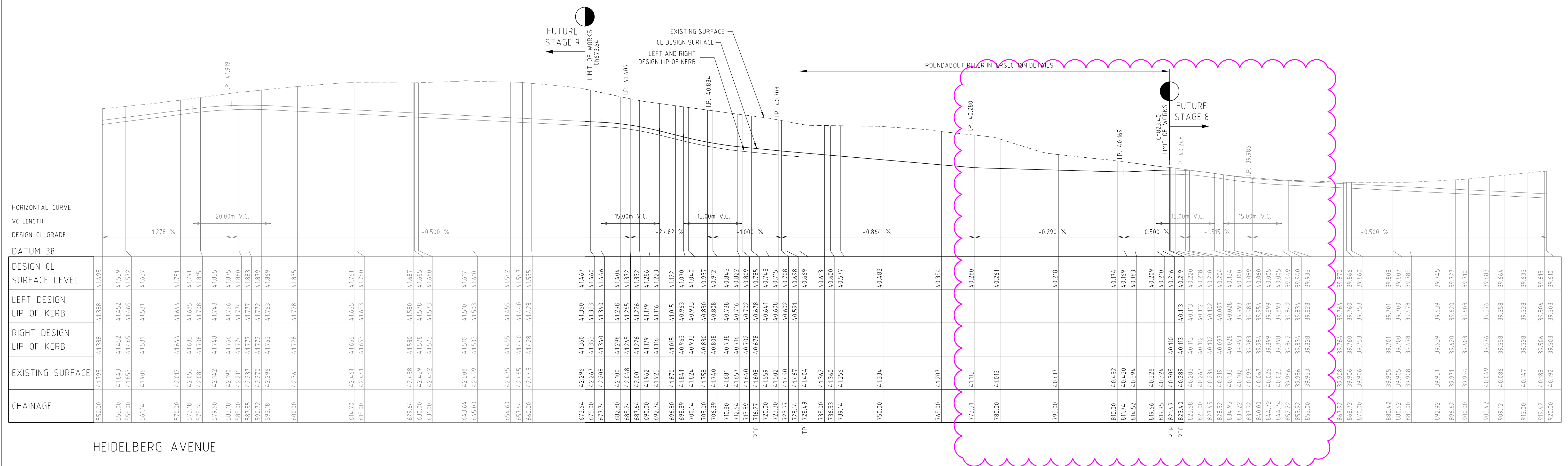
Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
LONGITUDINAL SECTION - BARRABOOL BOULEVARD

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION 305171R04

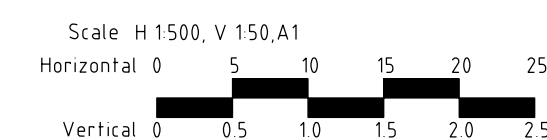
Rev 0



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019

1	HEIDELBERG AVENUE LONGSECTION UPDATED CH810 TO CH823	M.L	26/06/19
0	CONSTRUCTION ISSUE	M.L	27/05/19
Rev	Amendments	Approved	Date



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Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

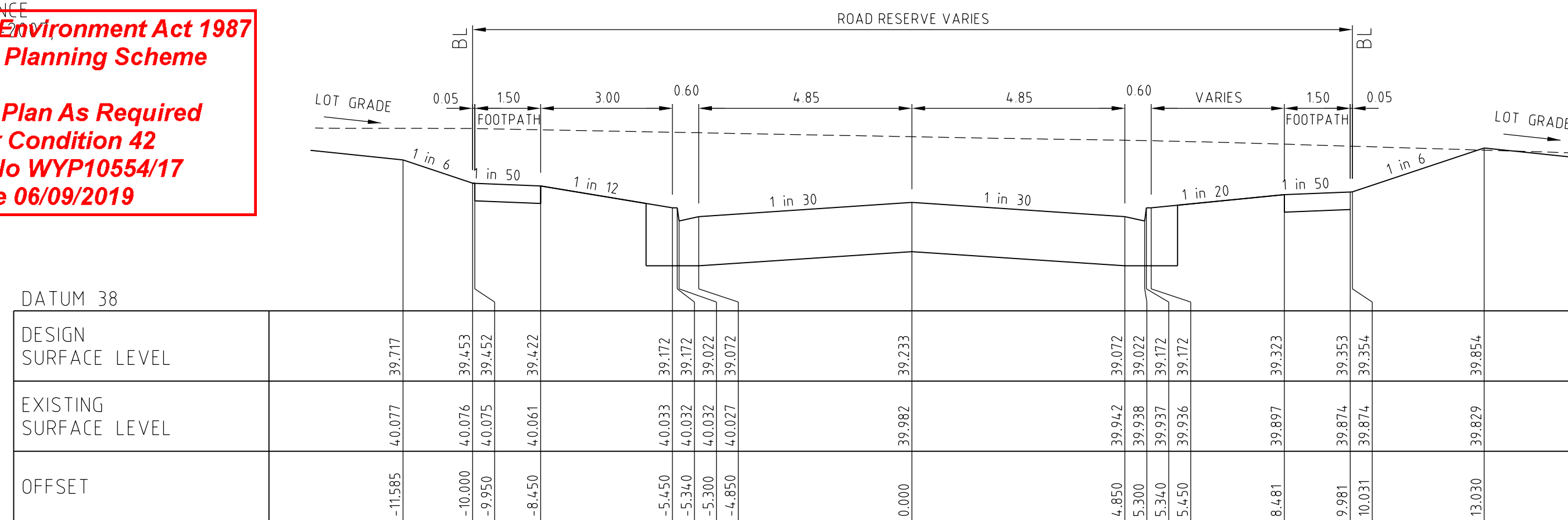
MAMBOURIN ESTATE
STAGE 6
LONGITUDINAL SECTION - HEIDELBERG AVENUE
MAYVALE STREET

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No **305171R05**

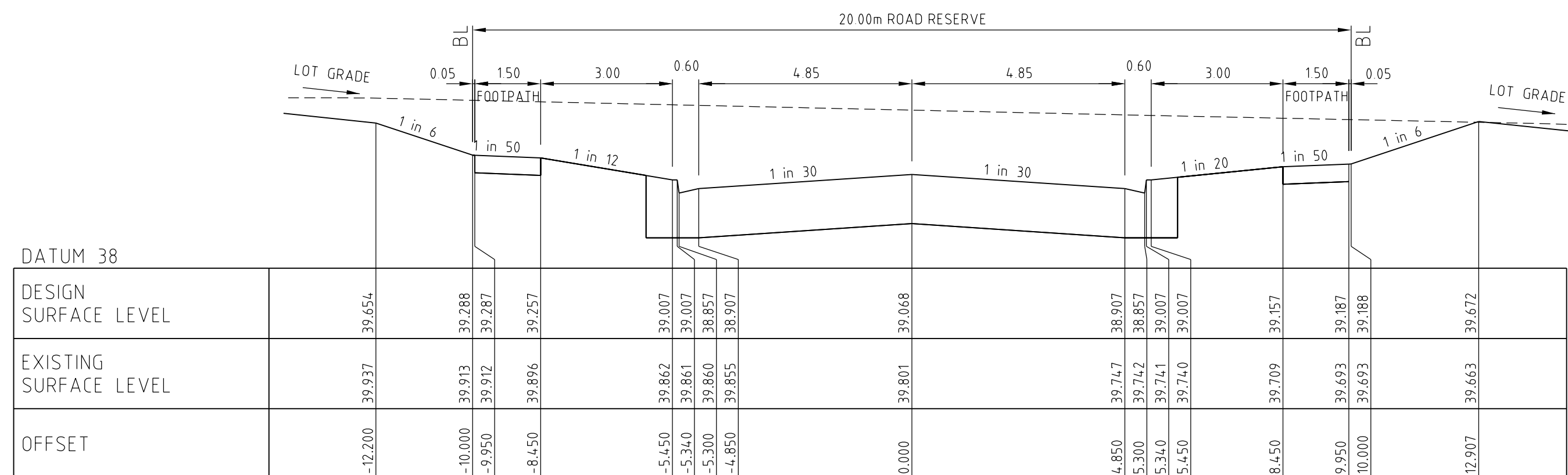
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STRUCTURAL FILL
IN ACCORDANCE
Planning and Environment Act 1987
Wyndham Planning Scheme
Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019



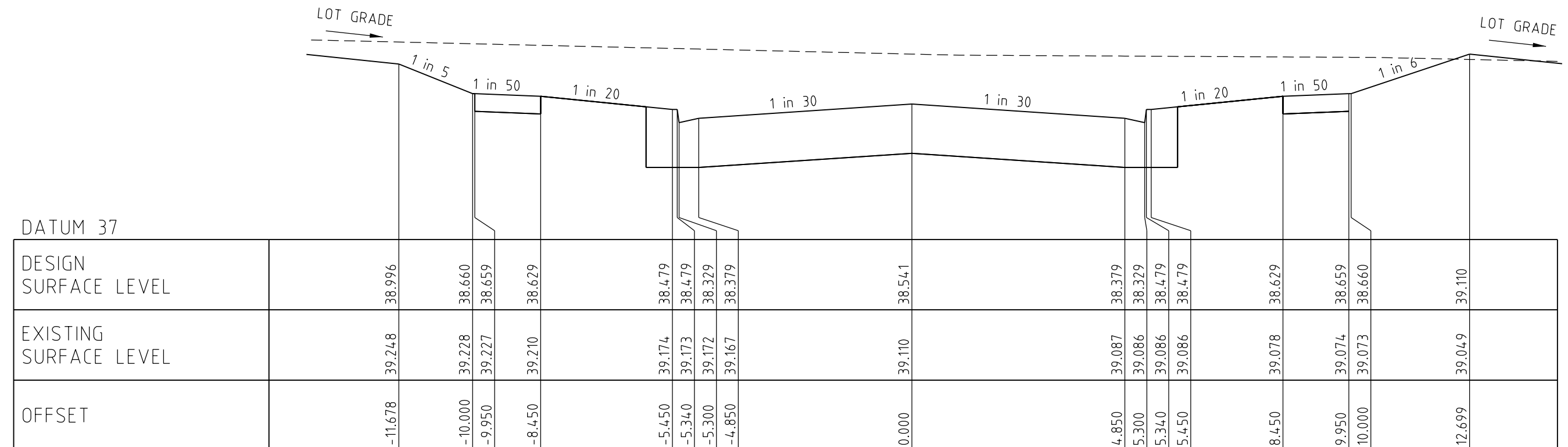
BARRABOOL BOULEVARD

Ch 772.98



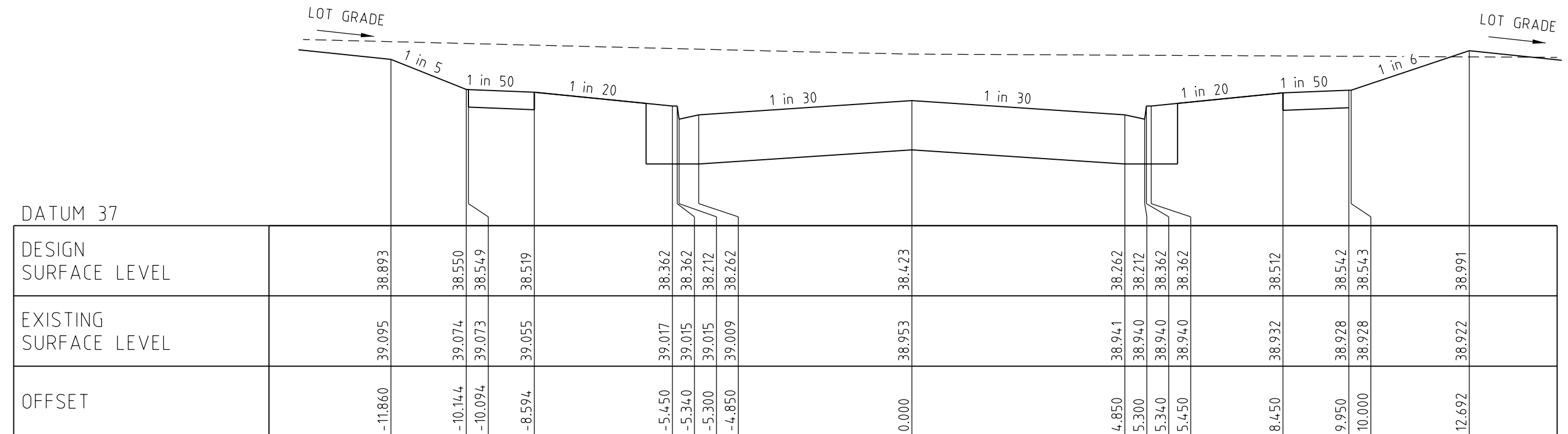
BARRABOOL BOULEVARD

Ch 763.51



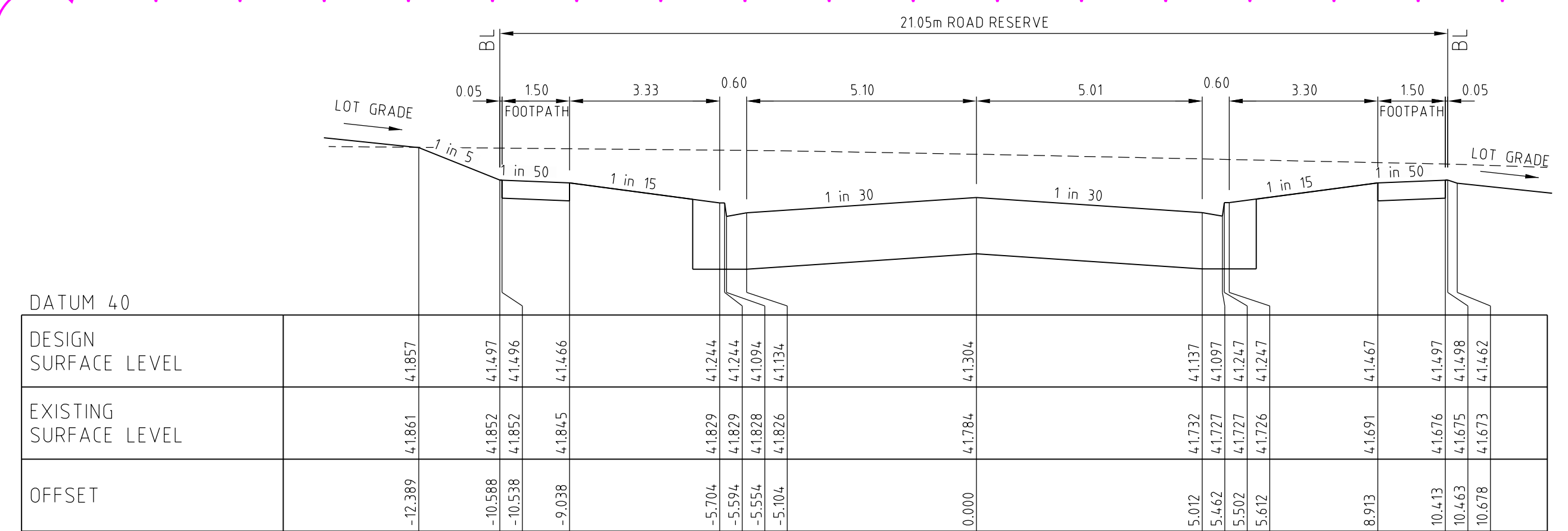
BARRABOOL BOULEVARD

Ch 733.34



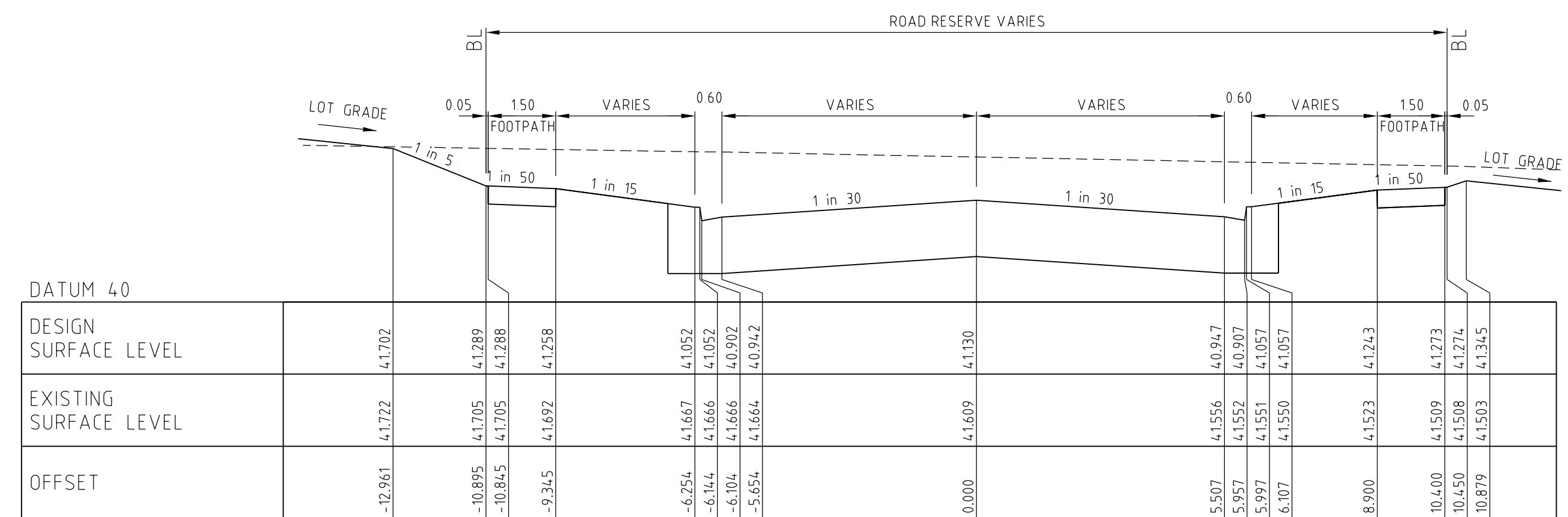
BARRABOOL BOULEVARD

Ch 726.74



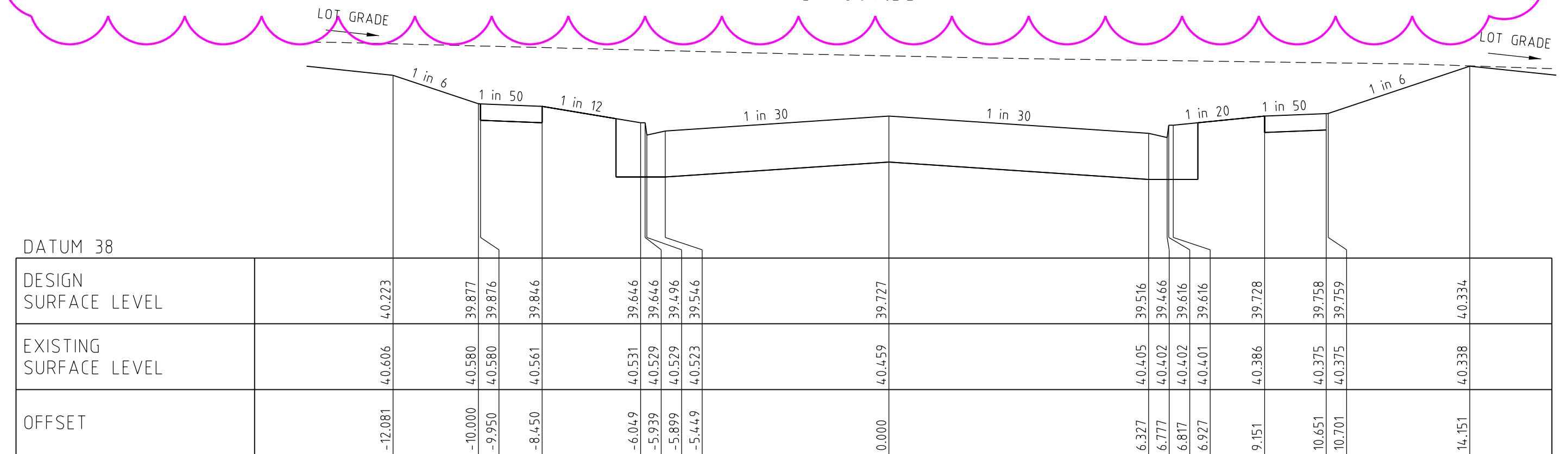
HUTCHISON ROAD

Ch 875.43



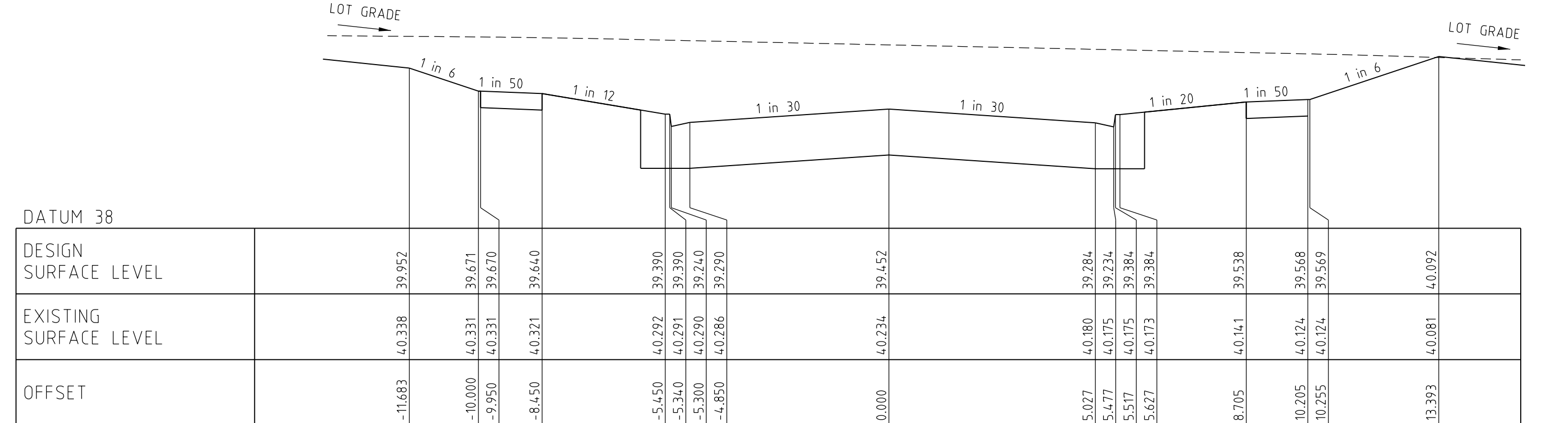
HUTCHISON ROAD

Ch 867.33



BARRABOOL BOULEVARD

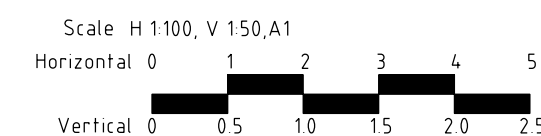
Ch 801.24



BARRABOOL BOULEVARD

Ch 785.48

1	CH875.43 & 867.33 UPDATED.	M.L.	05/09/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19
Rev	Amendments	Approved	Date



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ABN 55 050 029 635

FRASERS PROPERTY

Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
CROSS SECTIONS - BARRABOOL BOULEVARD
& HUTCHISON ROAD

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION

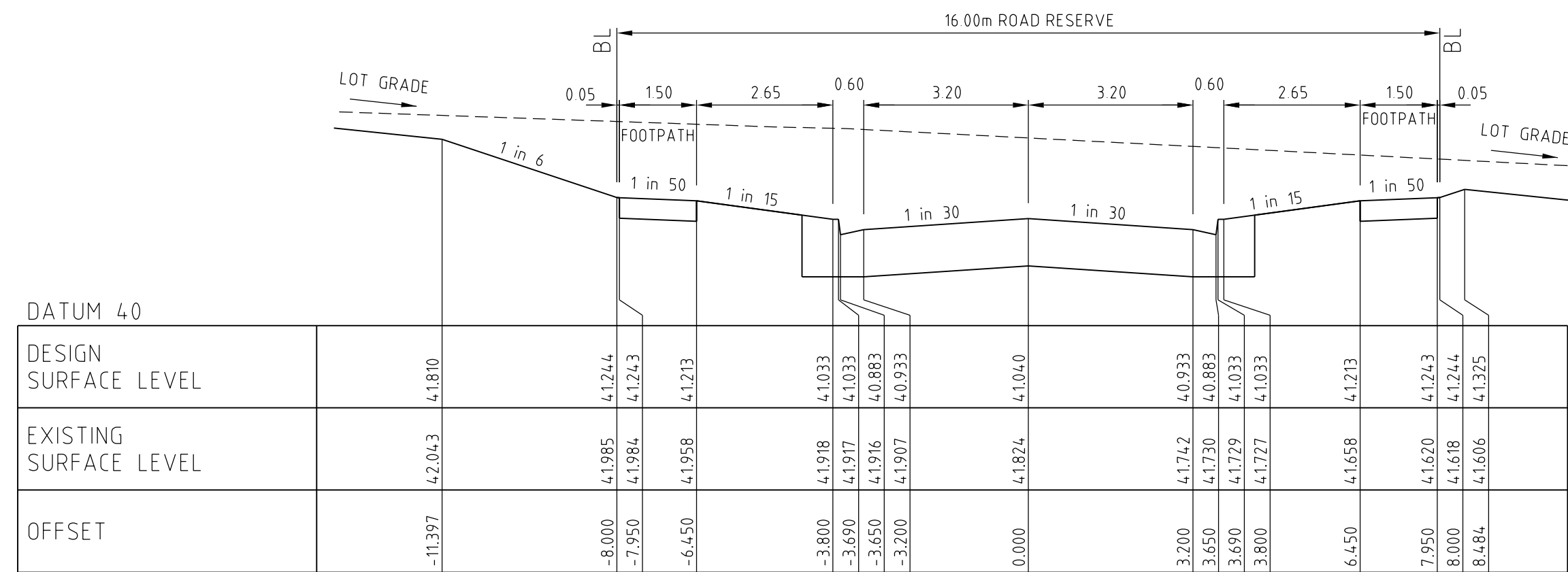
Drg No
305171R06

Rev
1

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

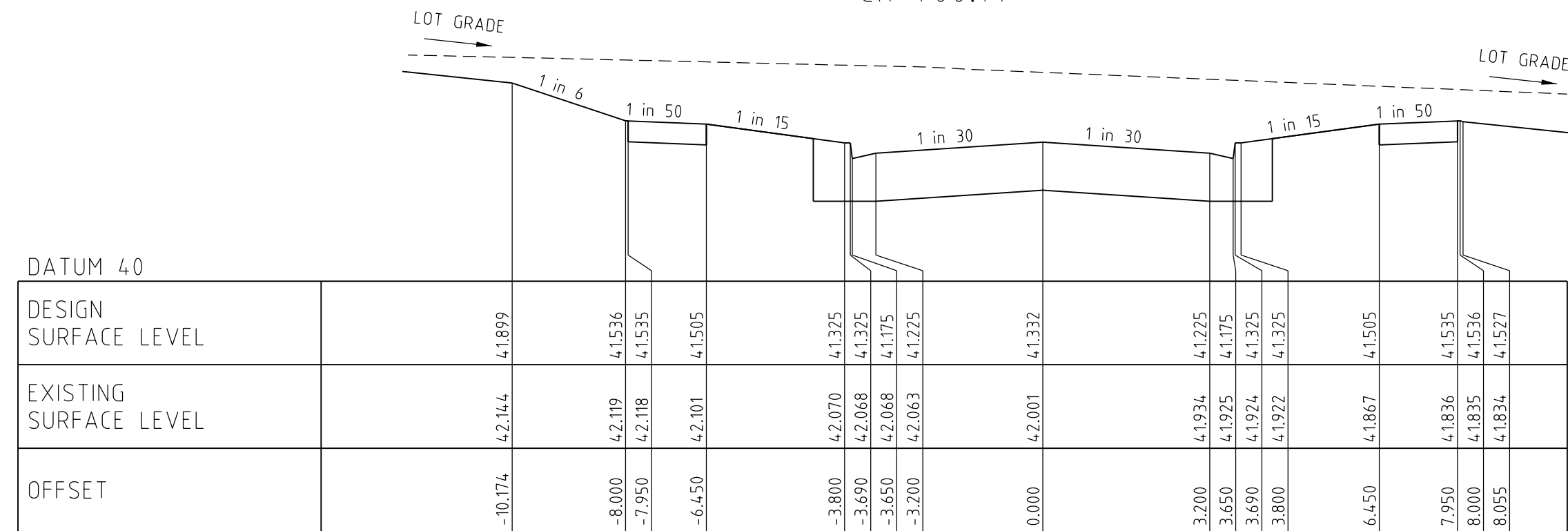
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019



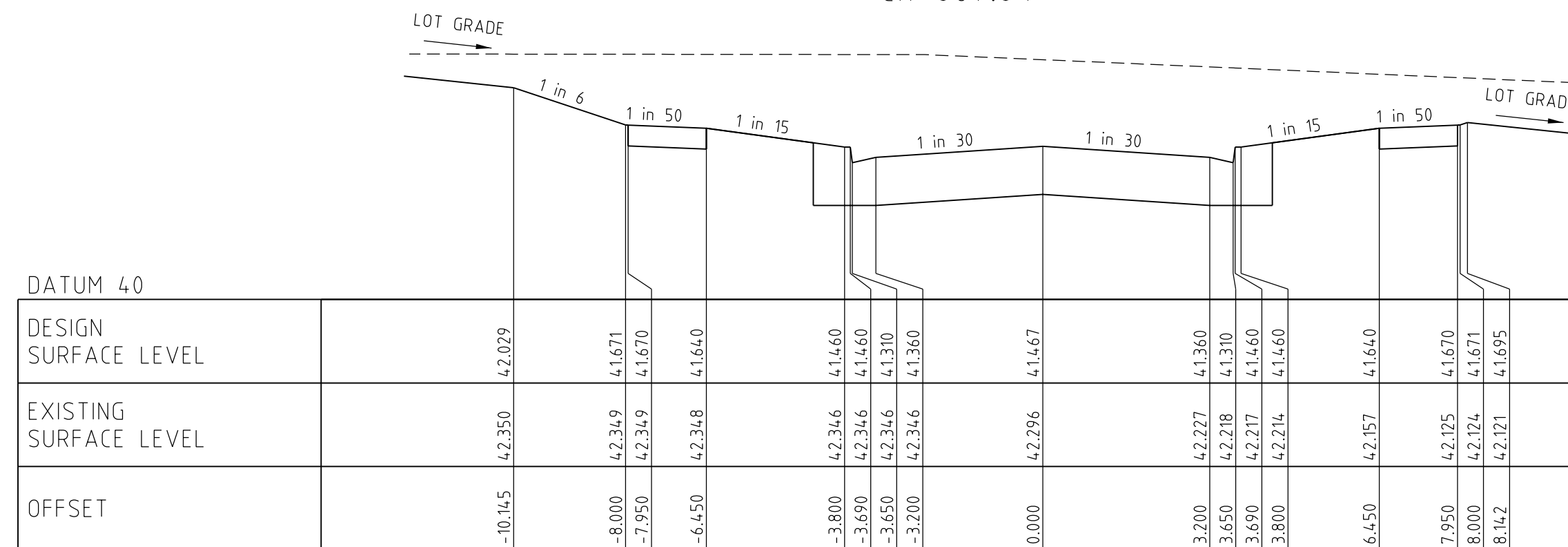
HEIDELBERG AVENUE

Ch 700.14



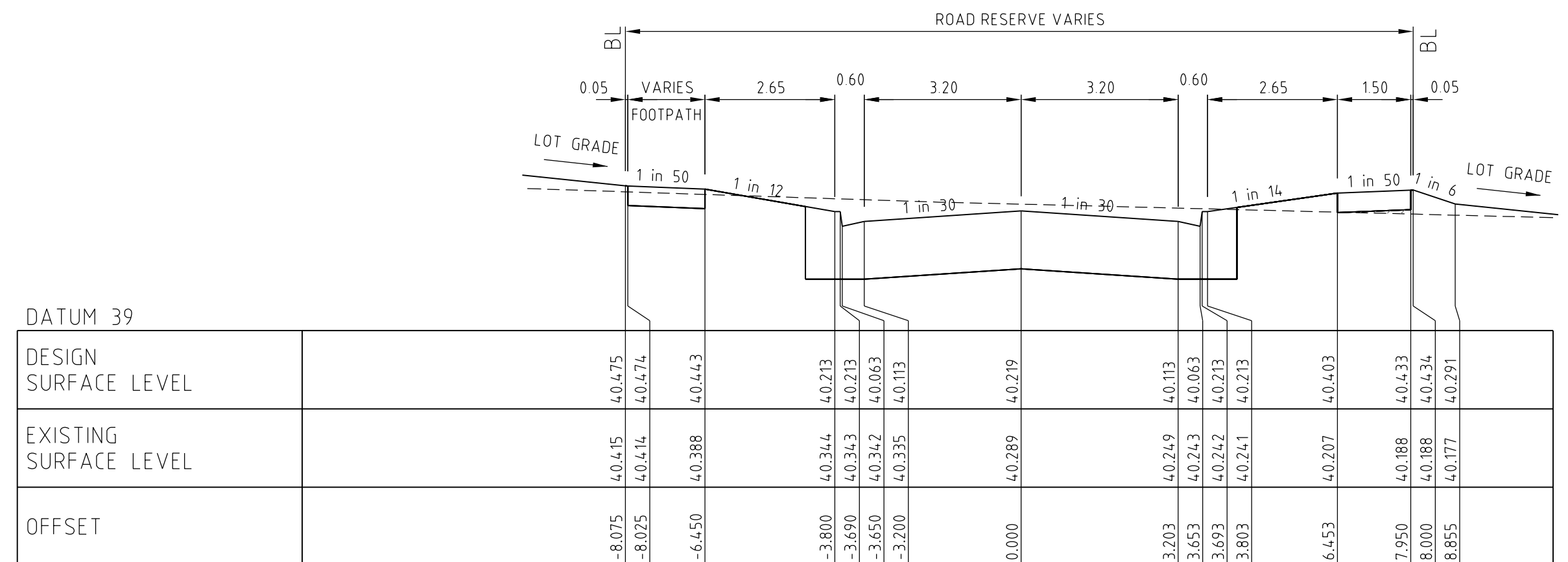
HEIDELBERG AVENUE

Ch 687.64



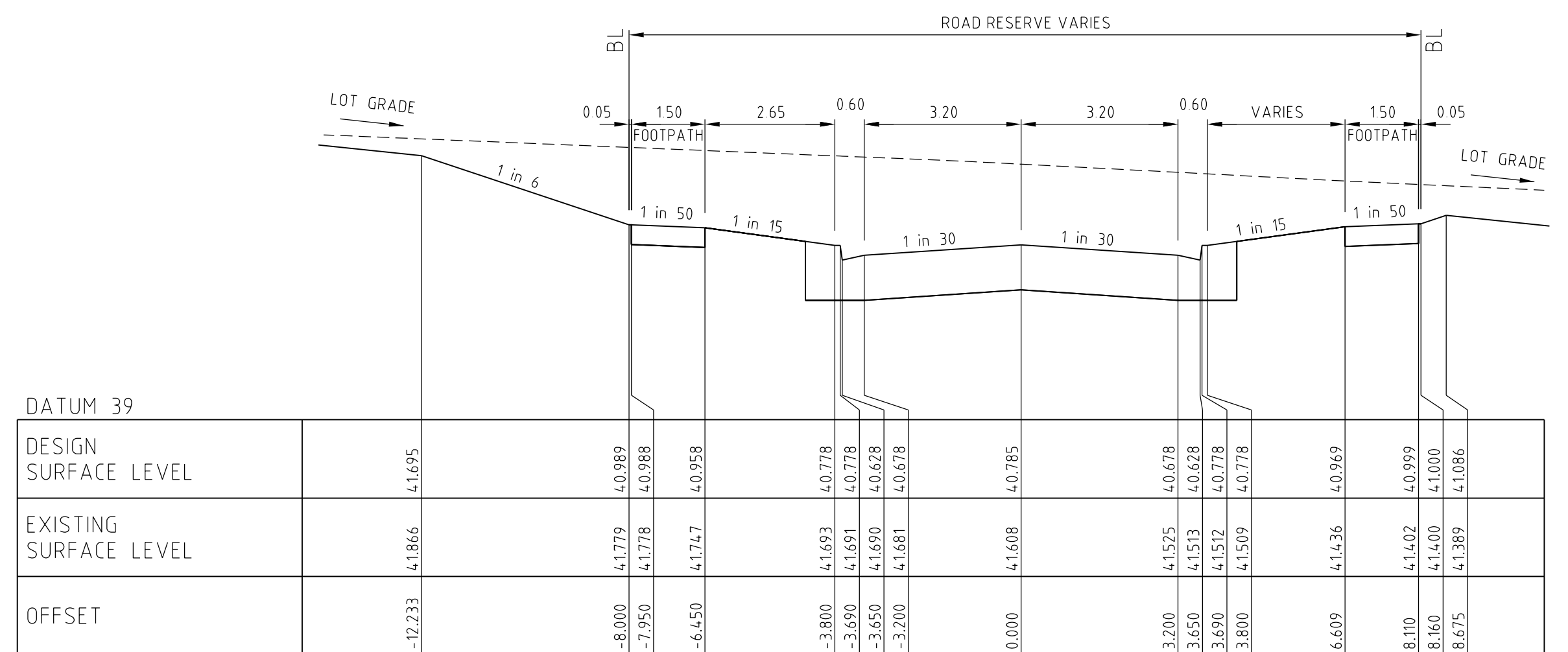
HEIDELBERG AVENUE

Ch 673.64



HEIDELBERG AVENUE

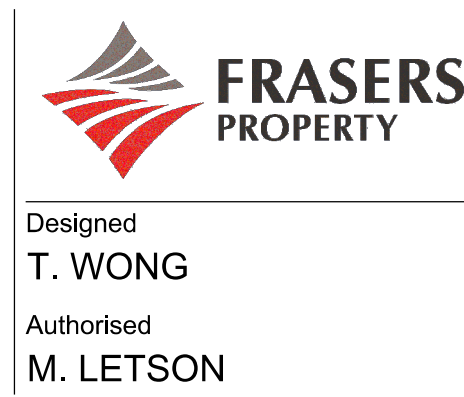
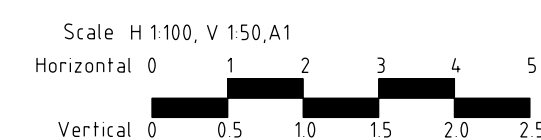
Ch 823.40



HEIDELBERG AVENUE

Ch 716.28

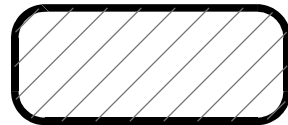
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0	CONSTRUCTION ISSUE	M.L	27/05/19
Rev	Amendments	Approved	Date



**MAMBOURIN ESTATE
STAGE 6
CROSS SECTIONS - HEIDELBERG AVENUE**

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

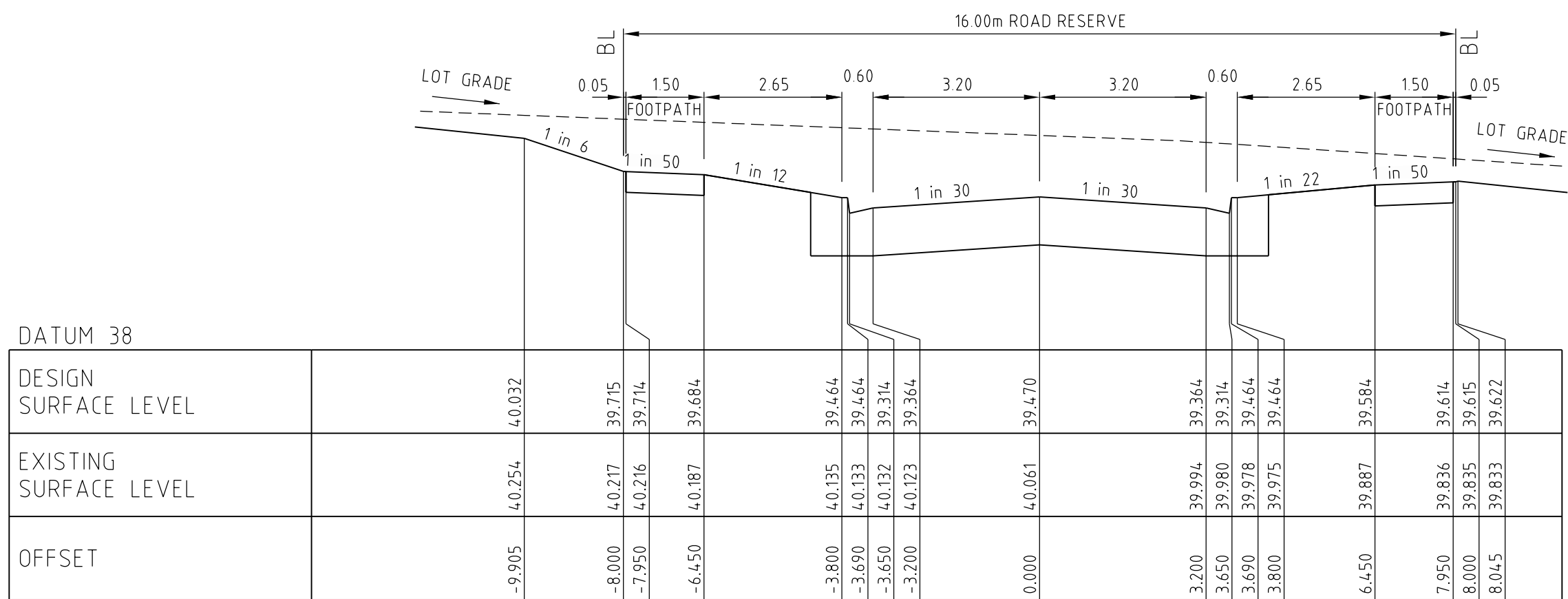
CONSTRUCTION Drg No **305171R07** Rev **1**



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

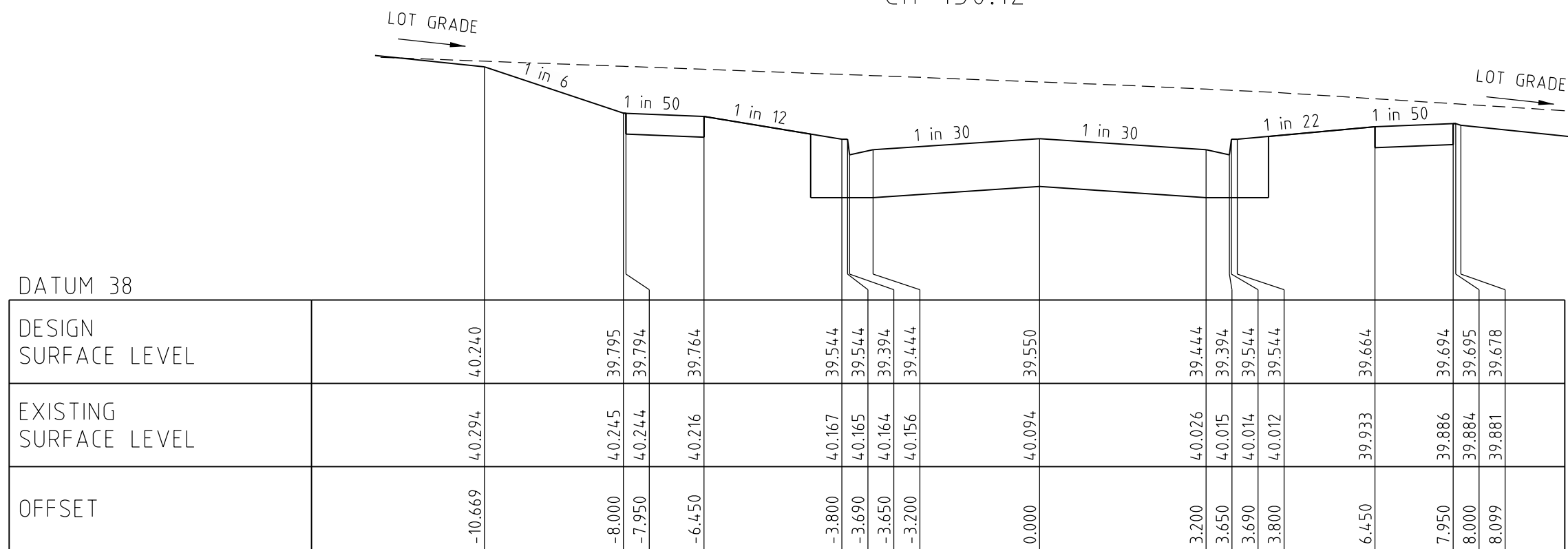
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 43
Permit No WYP10554/17
Date 6/06/2019



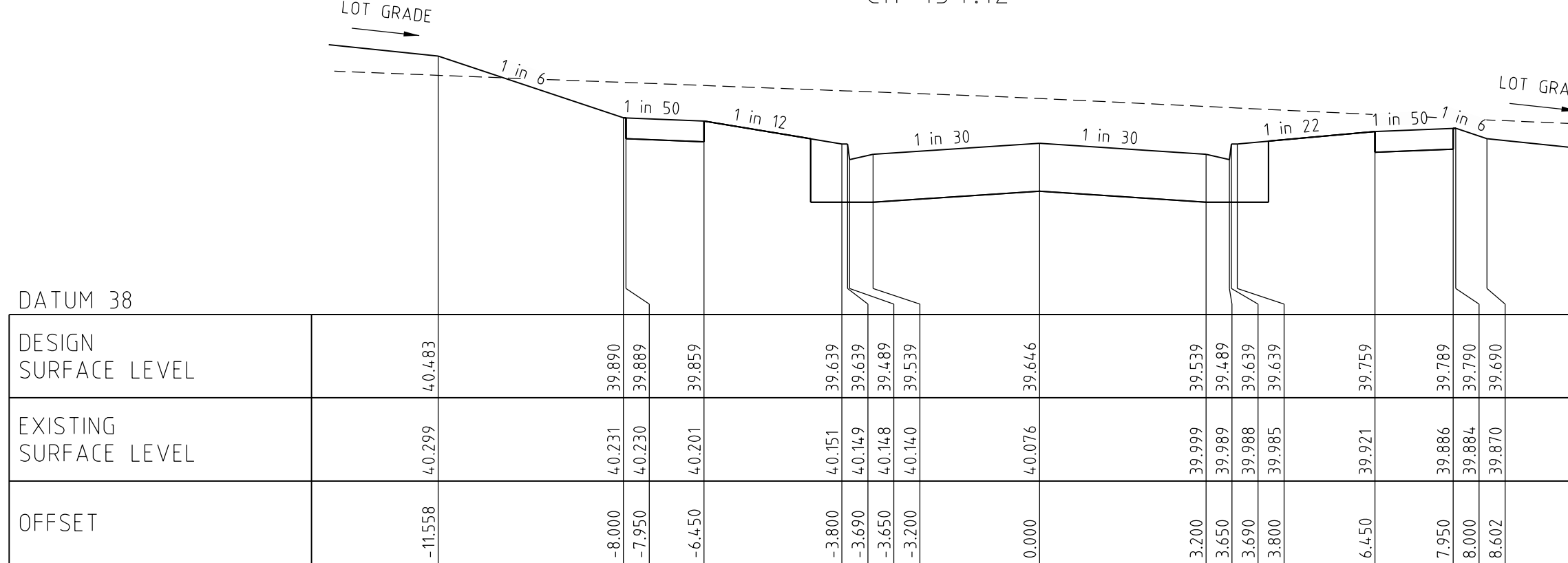
MAYVALE STREET

Ch 150.12



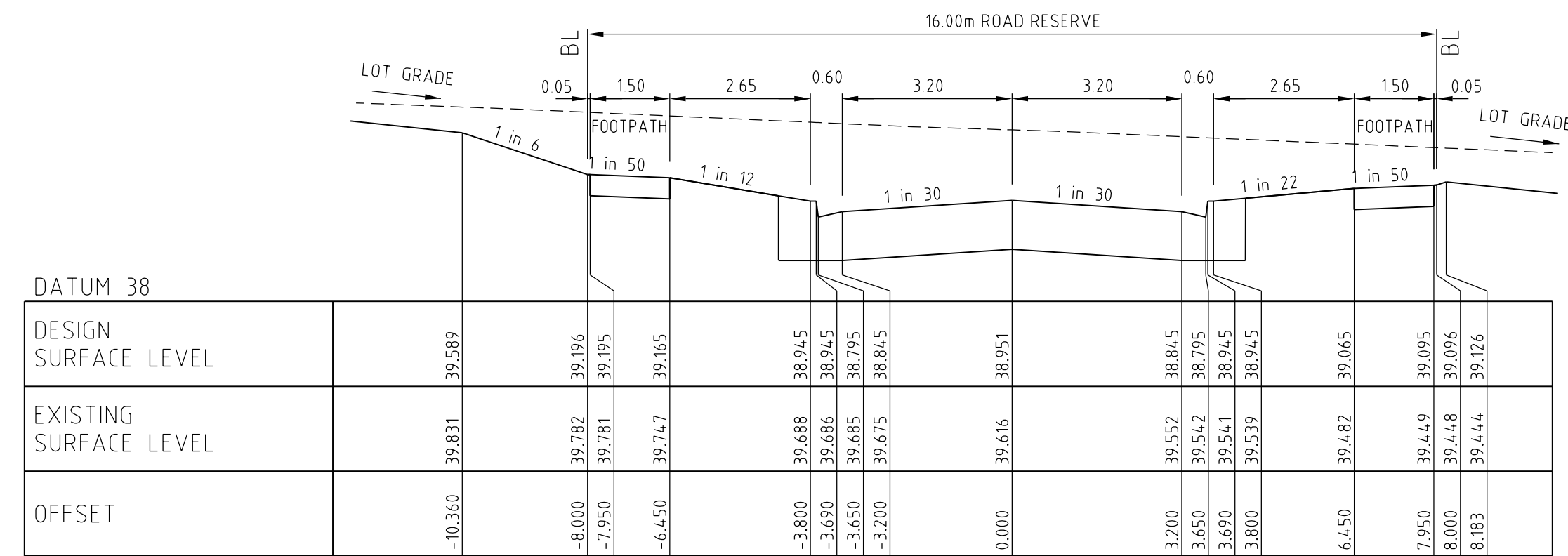
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Ch 134.12



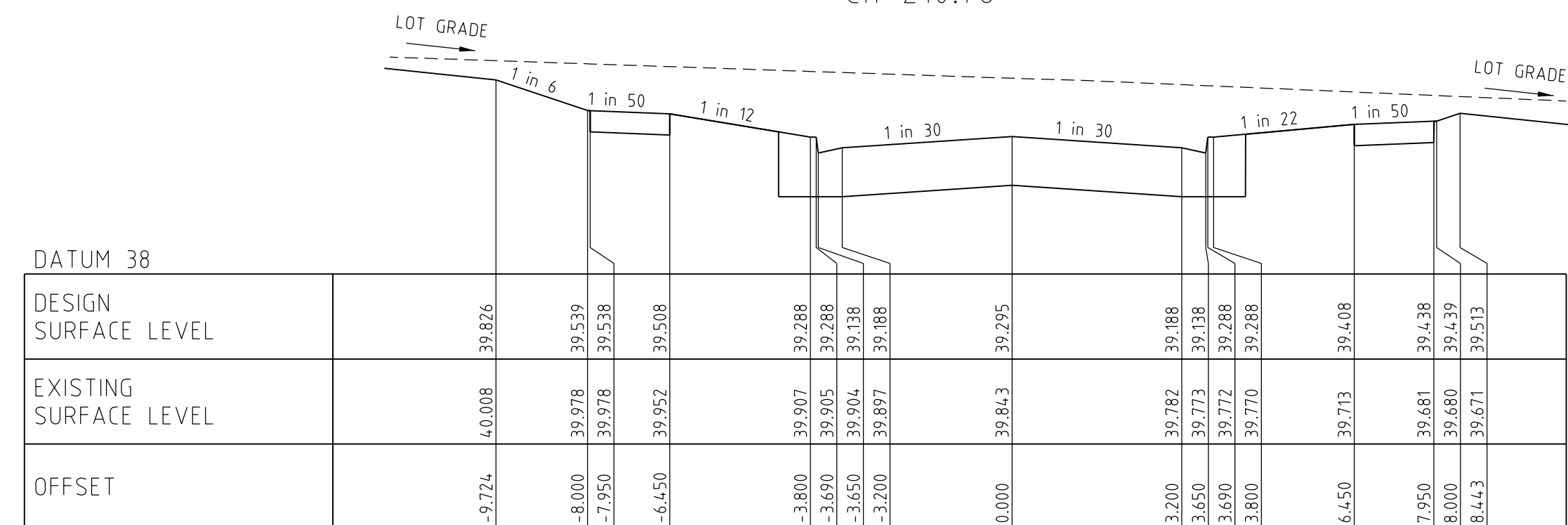
MAYVALE STREET

Ch 115.00



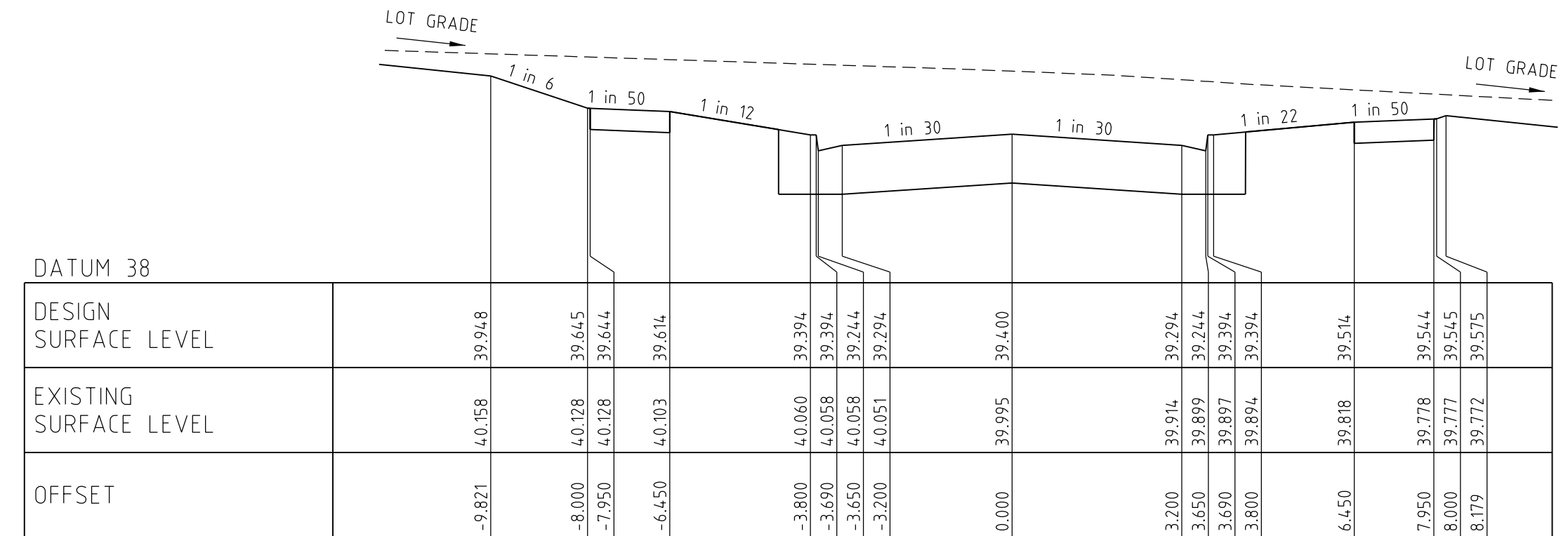
MAYVALE STREET

Ch 210.76



MAYVALE STREET

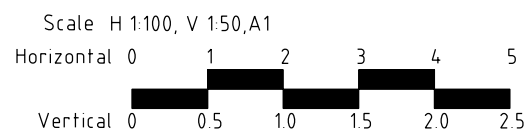
Ch 184.18



MAYVALE STREET

Ch 164.12

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



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Designed
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Authorised
M. LETSON

Checked
R. WEINBER

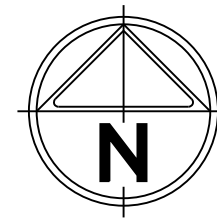
Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
CROSS SECTIONS - MAYVALE STREET

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305171R08

Rev 0



1:10



1:10



POINT NO	EASTING	NORTHING	RL
L1	2884.76.288	5803607.685	4.0.042
L2	2884.78.612	5803607.502	39.975
L3	2884.79.717	5803606.329	39.921
L4	2884.79.720	5803606.197	39.919
L5	2884.79.799	5803603.765	39.882
L6	2884.80.183	5803598.393	39.806
L7	2884.79.602	5803598.261	39.822
L8	2884.77.450	5803603.414	39.944
L9	2884.76.466	5803605.395	39.979
L10	2884.75.715	5803606.796	40.006



Horizontal 0 2.5 5 7.5 10 12

Vertical 0 0.25 0.5 0.75 1.0 1.2

ALIGNMENT G					
POINT NO	EASTING	NORTHING	RL		
3/4	2884.69.541	5803617.353	40.311		
G1	2884.76.022	5803631.252	40.546		
G2	2884.76.022	5803631.252	40.546		
3/4	2884.83.459	5803625.799	40.308		
G3	2884.83.952	5803622.598	40.310		
1/4	2884.83.182	5803619.453	40.130		
1/2	2884.81.267	5803616.841	40.097		
	2884.78.499	5803615.161	40.109		
G4	2884.75.298	5803614.408	40.165		
3/4	2884.72.152	5803615.438	40.236		
1/2	2884.69.541	5803617.353	40.311		
1/2	2884.69.541	5803617.353	40.311		
3/4	2884.67.861	5803620.121	40.395		
G5	2884.67.368	5803623.322	40.483		
1/4	2884.68.137	5803626.468	40.572		
1/2	2884.70.052	5803629.079	40.633		
1/4	0.000	0.000	0.000		
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
G2-G3	8.300	-39.113	-11.738	14.169	5.124
G3-G4	8.300	13.038	11.738	2.431	0.632
G4-G5	8.300	13.038	11.738	2.431	0.632
G5-G1	8.300	-39.113	-11.738	14.169	5.124



ALIGNMENT K				
POINT NO	EASTING	NORTHING	RL	
K1	288490.810	5803620.884	40.089	
K2	288491.396	5803623.097	40.197	
K3	288492.737	5803623.977	40.180	
K4	288493.712	5803623.833	40.165	
K5	288495.759	5803623.561	40.125	
K6	288500.646	5803623.087	40.057	
K7	288500.677	5803622.492	40.076	
K8	288495.779	5803621.426	40.075	
K9	288493.691	5803620.839	40.057	
K10	288491.584	5803620.162	40.045	



N.T.S.



(Dimensions in millimetres)
(N.T.S.)

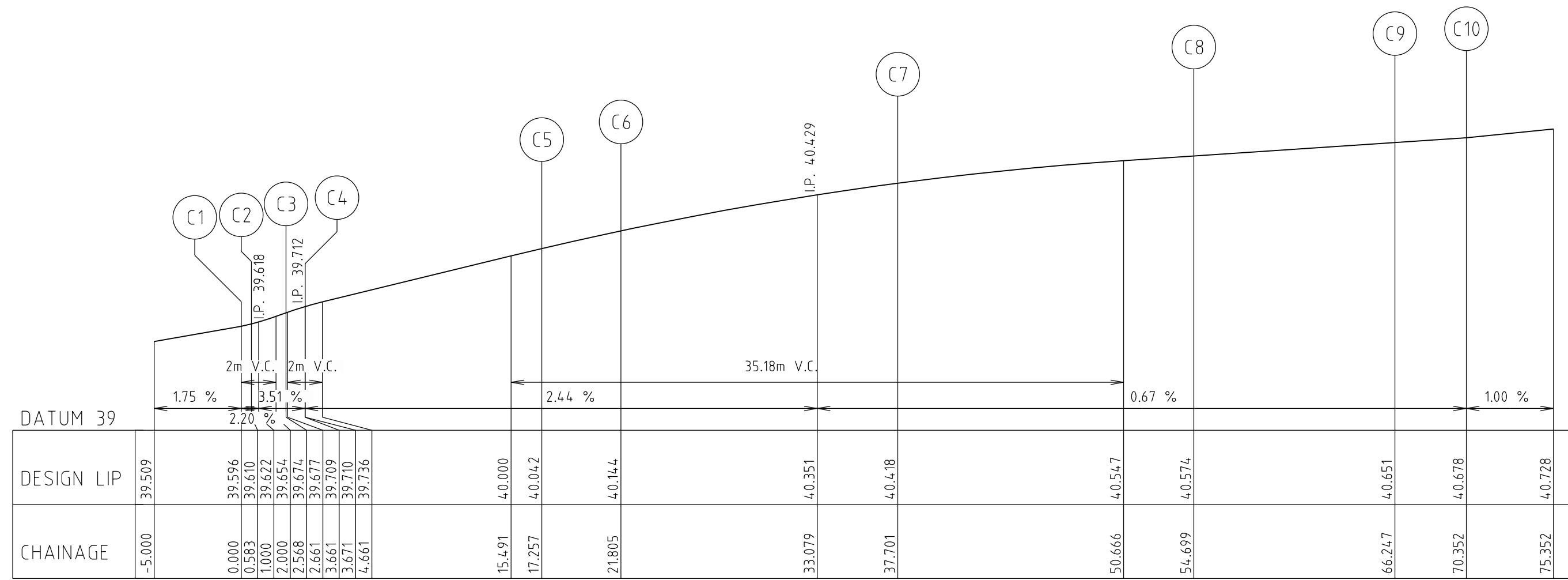


(Dimensions in millimetres)
(N.T.S.)



N.T.S





ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288473.534	5803594.428	39.596
1/4	288473.513	5803594.572	39.600
1/2	288473.522	5803594.717	39.603
3/4	288473.561	5803594.857	39.607
C2	288473.628	5803594.986	39.610
C3	288474.722	5803596.643	39.674
1/4	288474.848	5803596.887	39.683
1/2	288474.921	5803597.153	39.692
3/4	288474.935	5803597.428	39.701
C4	288474.892	5803597.699	39.710
1/4	288473.826	5803600.923	39.795
1/2	288473.412	5803604.009	39.878
3/4	288470.669	5803606.922	39.961
C5	288468.616	5803609.626	40.042
1/4	288467.849	5803610.465	40.069
1/2	288467.021	5803611.244	40.095
3/4	288466.138	5803611.959	40.120
C6	288465.204	5803612.607	40.144
1/4	288461.771	5803614.606	40.224
1/2	288458.182	5803616.311	40.297
3/4	288454.463	5803617.708	40.361
C7	288450.639	5803618.788	40.418
1/4	288446.486	5803619.682	40.469
1/2	288442.298	5803620.401	40.512
3/4	288438.083	5803620.941	40.545
C8	288433.850	5803621.303	40.574
C9	288422.325	5803622.042	40.651
1/4	288421.300	5803622.105	40.658
1/2	288420.276	5803622.163	40.665
3/4	288419.251	5803622.216	40.672
C10	288418.226	5803622.263	40.678

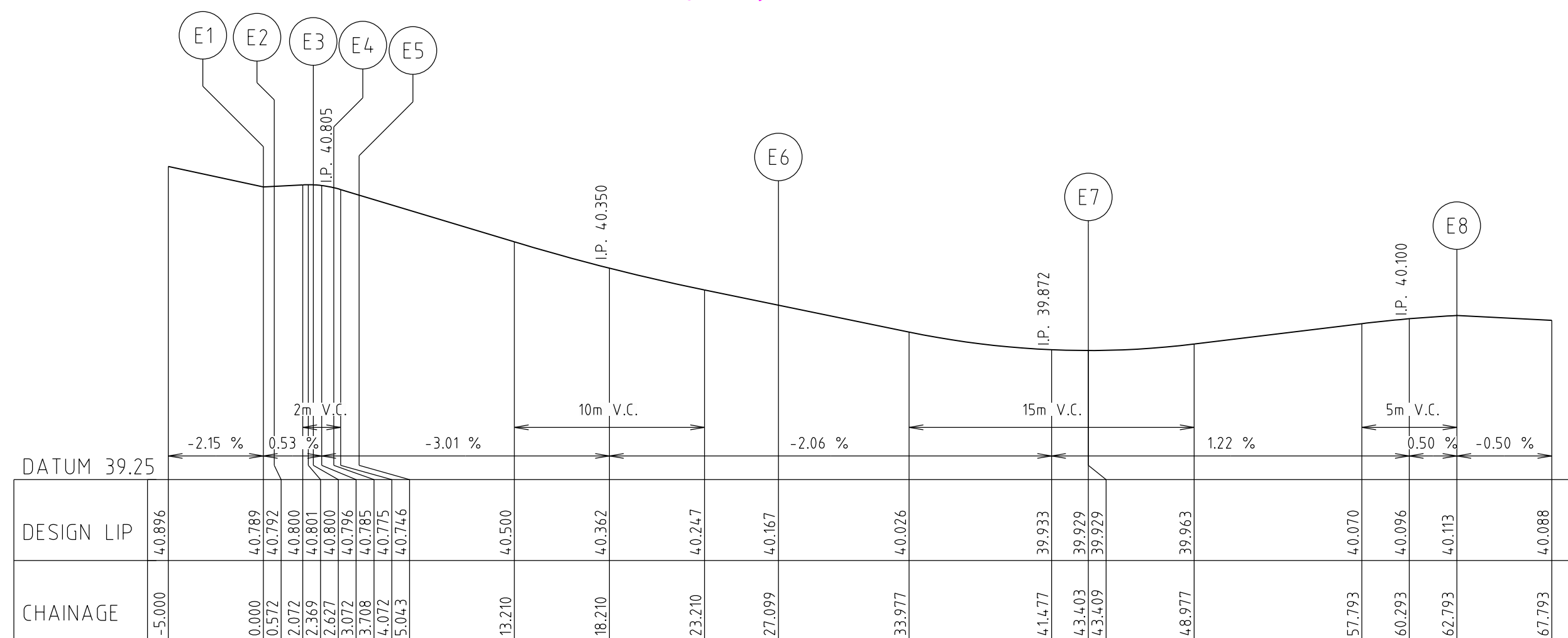
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Hor250
Ver25

ALIGNMENT E

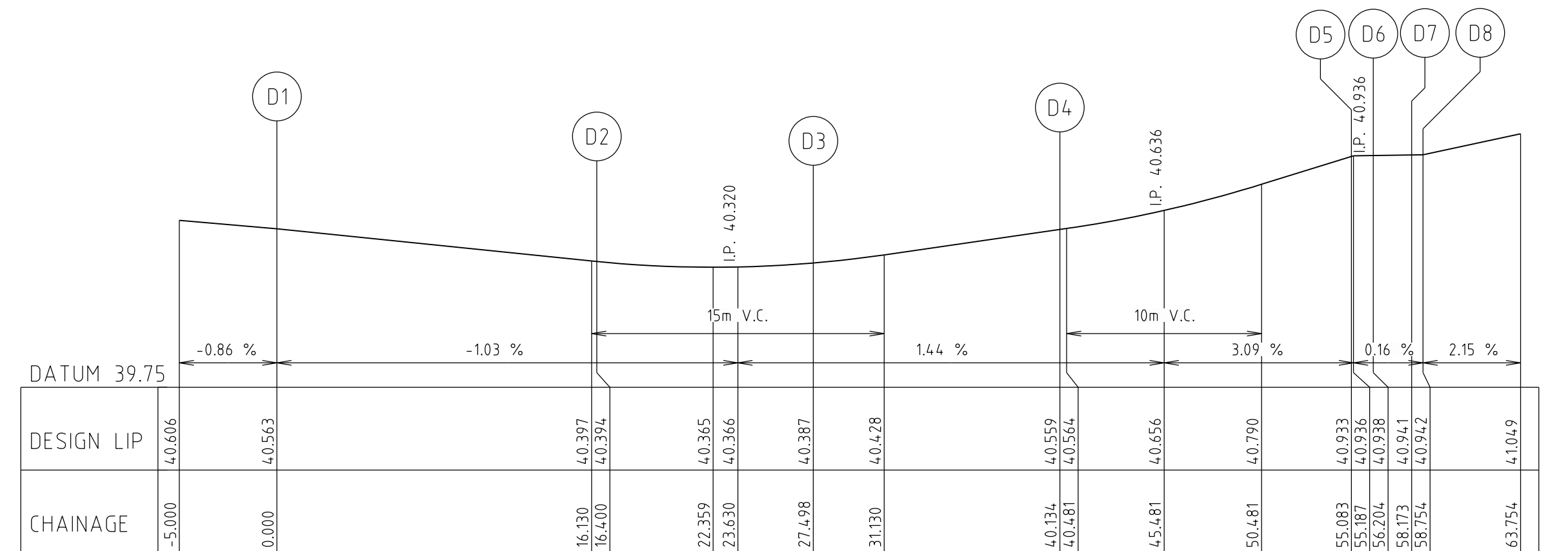
POINT NO	EASTING	NORTHING	RL
E1	288477.850	5803651.612	40.789
1/4	288477.871	5803651.468	40.790
1/2	288477.862	5803651.328	40.790
3/4	288477.827	5803651.193	40.791
E2	288477.761	5803651.063	40.792
E3	288476.655	5803649.331	40.800
1/4	288476.532	5803649.085	40.798
1/2	288476.465	5803648.829	40.795
3/4	288476.452	5803648.566	40.791
E4	288476.495	5803648.294	40.785
1/4	288476.582	5803647.971	40.776
1/2	288476.669	5803647.649	40.766
3/4	288476.758	5803647.327	40.756
E5	288476.846	5803647.005	40.746
1/4	288478.942	5803641.775	40.576
1/2	288481.970	5803637.338	40.418
3/4	288485.867	5803633.641	40.285
E6	288490.697	5803630.739	40.167
1/4	288494.467	5803629.164	40.083
1/2	288498.318	5803627.853	40.001
3/4	288502.248	5803626.806	39.947
E7	288506.258	5803626.022	39.929
1/4	288511.054	5803625.319	39.955
1/2	288515.864	5803624.745	40.013
3/4	288520.688	5803624.301	40.072
E8	288525.525	5803623.987	40.113

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
E1-E2	0.700	0.583	0.566	0.060	0.015
E2-E3	1.300	1.103	1.070	0.115	-0.029
E3-E4	30.900	13.587	13.477	0.744	-0.186
E4-E5	15.300	4.547	4.531	0.169	-0.042
E5-E6	47.300	15.897	15.822	0.666	-0.167
E6-E7	60.300	16.977	16.977	0.359	-0.090
E7-E8	180.000	19.384	19.375	0.261	-0.065

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	0.700	0.583	0.566	0.060	0.015
C2-C3	1.300	1.103	1.070	0.115	-0.029
C3-C4	30.900	13.587	13.477	0.744	-0.186
C4-C5	15.300	4.547	4.531	0.169	-0.042
C5-C6	47.300	15.897	15.822	0.666	-0.167
C6-C7	60.300	16.977	16.977	0.359	-0.090
C7-C8	180.000	19.384	19.375	0.261	-0.065
C8-C9	180.000	19.384	19.375	0.261	-0.065
C9-C10	200.450	4.104	4.104	0.011	-0.003



LIP LINE E
Hor250
Ver25



LIP LINE D
Hor250
Ver25

ALIGNMENT D

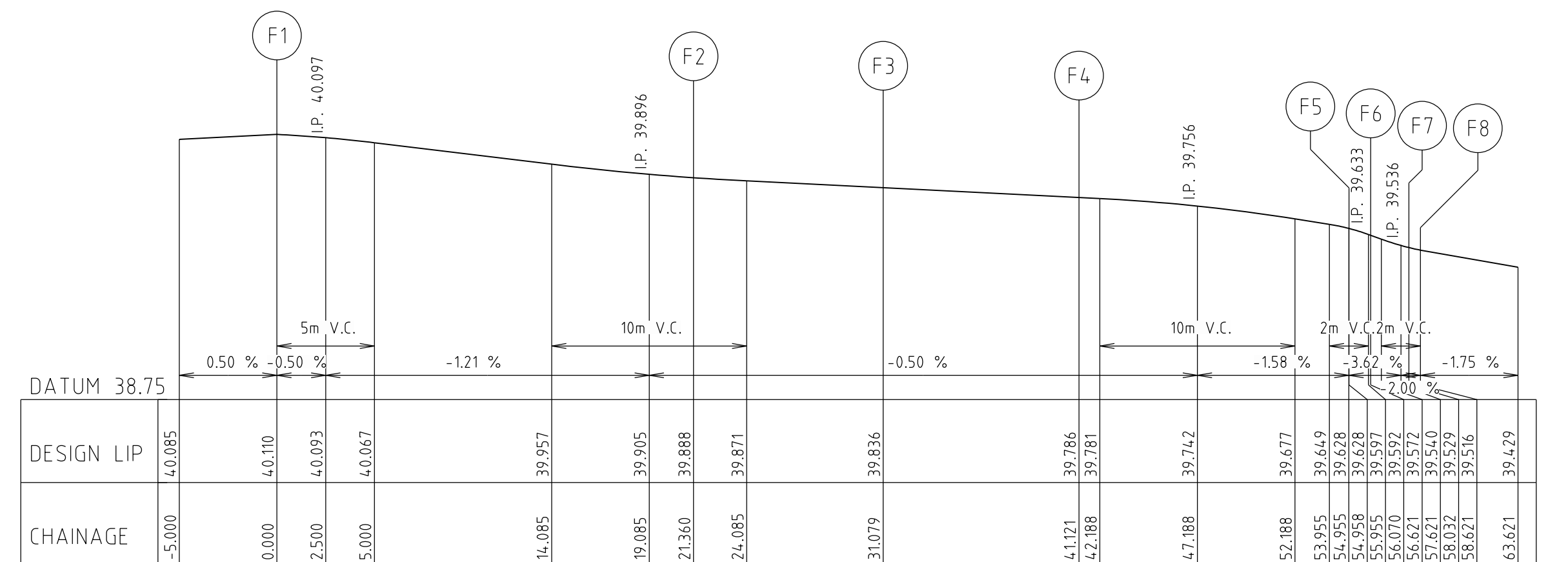
POINT NO	EASTING	NORTHING	RL
D1	288430.704	5803628.125	40.563
1/4	288434.803	5803628.018	40.520
1/2	288438.902	5803627.978	40.478
3/4	288443.002	5803628.005	40.436
D2	288447.101	5803628.099	40.394
1/4	288449.875	5803628.271	40.373
1/2	288452.623	5803628.611	40.365
3/4	288455.345	5803629.119	40.370
D3	288458.041	5803629.794	40.387
1/4	288461.027	5803631.134	40.424
1/2	288463.338	5803633.084	40.467
3/4	288465.049	5803635.578	40.511
D4	288466.084	5803638.683	40.559
1/4	288466.664	5803642.378	40.622
1/2	288467.089	5803646.088	40.708
3/4	288467.361	5803649.811	40.817
D5	288467.479	5803653.550	40.933
1/4	288467.451	5803653.834	40.936
1/2	288467.366	5803654.094	40.937
3/4	288467.229	5803654.330	40.937
D6	288467.036	5803654.562	40.938
1/4	288465.554	5803655.839	40.941
1/2	288465.454	5803655.948	40.941
3/4	288465.381	5803656.070	40.941
D7	288465.334	5803656.204	40.941
D8	288465.315	5803656.351	40.942

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	250.000	16.400	16.397	0.134	-0.034
D2-D3	45.300	11.098	11.070	0.339	-0.085
D3-D4	11.300	12.636	11.988	1.721	-0.439
D4-D5	90.300	14.948	14.931	0.309	-0.077
D5-D6	1.300	1.121	1.087	0.119	-0.030
D6-D7	0.700	0.582	0.565	0.060	0.015

ALIGNMENT F

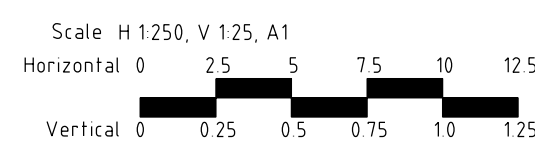
POINT NO	EASTING	NORTHING	RL
F1	288523.342	5803617.676	40.110
1/4	288518.003	5803617.850	40.063
1/2	288512.665	5803617.904	39.998
3/4	288507.327	5803617.840	39.935
F2	288501.989	5803617.657	39.888
1/4	288499.561	5803617.463	39.873
1/2	288497.165	5803617.104	39.861
3/4	288494.798	5803616.581	39.848
F3	288492.463	5803615.894	39.836
1/4	288490.136	5803614.781	39.823
1/2	288488.262	5803613.234	39.811
3/4	288486.803	5803611.292	39.799
F4	288485.797	5803608.917	39.786
1/4	288484.970	5803605.551	39.766
1/2	288484.378	5803602.151	39.733
3/4	288484.018	5803598.719	39.687
F5	288483.894	5803595.255	39.628
1/4	288483.924	5803594.973	39.620
1/2	288484.010	5803594.715	39.612
3/4	288484.147	5803594.481	39.603
F6	288484.340	5803594.273	39.592
1/4	288485.819	5803592.984	39.529
1/2	288485.921	5803592.874	39.526
3/4	288485.994	5803592.750	39.523
F7	288486.041	5803592.614	39.519
F8	288486.059	5803592.465	39.516

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
F1-F2	240.000	21.360	21.353	0.238	-0.059
F2-F3	35.300	9.718	9.688	0.334	-0.084
F3-F4	10.300	10.042	9.649	1.200	-0.304
F4-F5	50.600	13.837	13.794	0.472	-0.118
F5-F6	1.300	1.112	1.079	0.117	-0.030
F6-F7	0.700	0.589	0.572	0.061	0.015



LIP LINE F
Hor250
Ver25

Rev	Amendments	Approved	Date
1	LIP D, E & F UPDATED	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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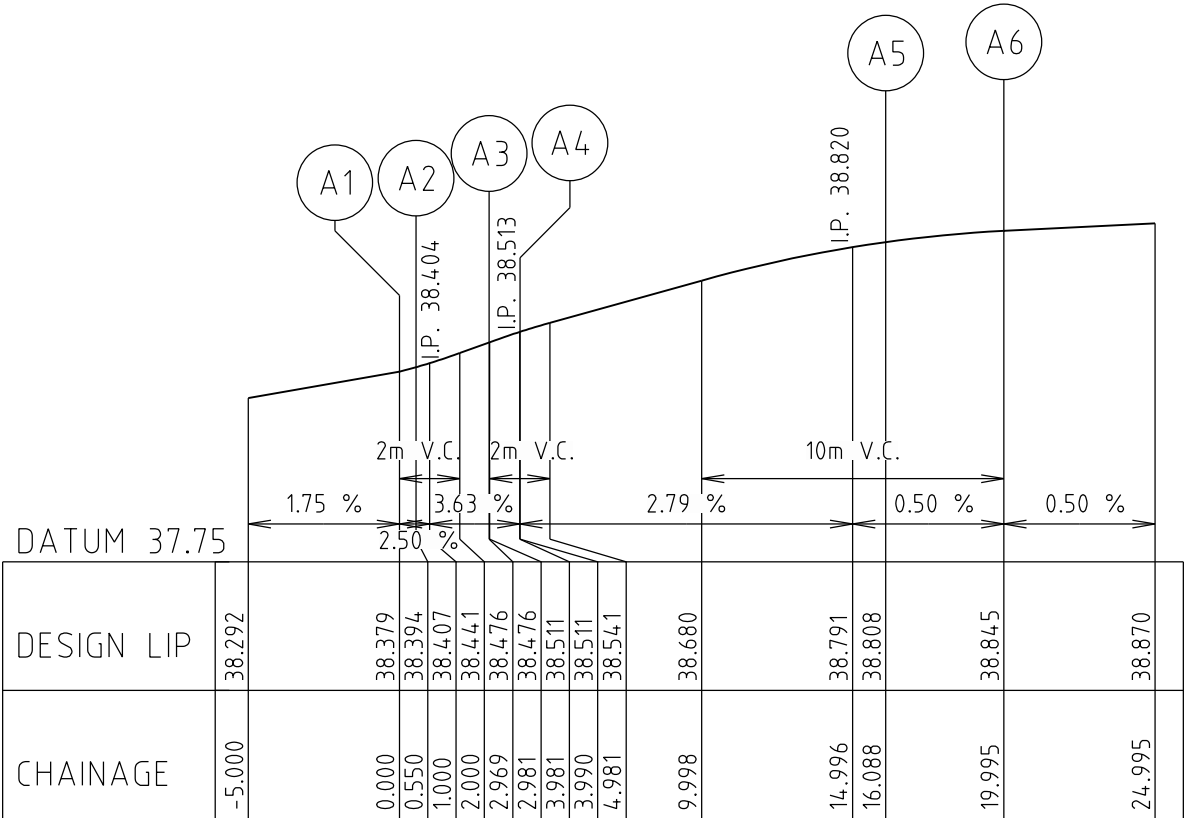
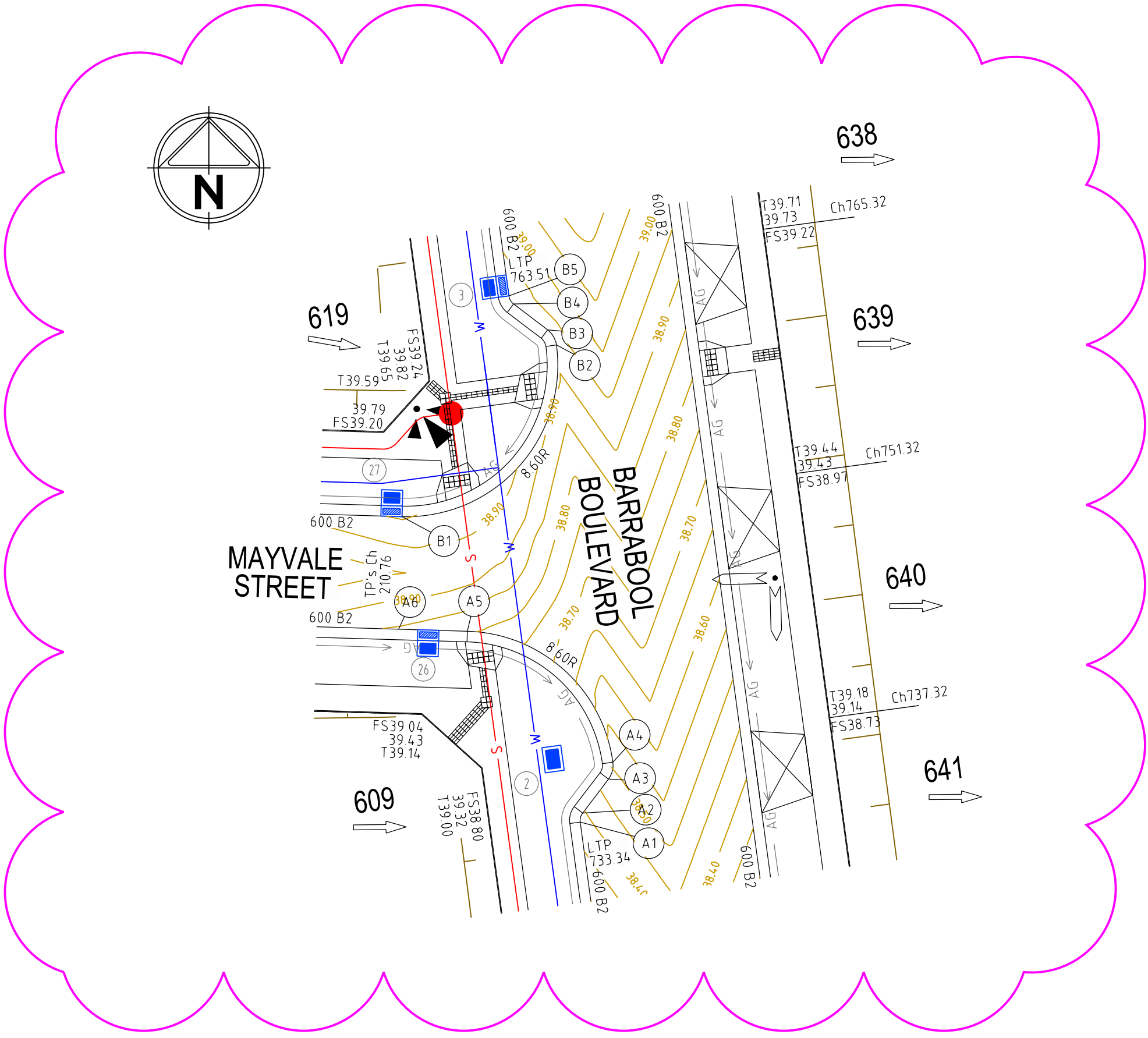
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FRASERS PROPERTY
Designed
T. WONG
Authorised
M. LETSON
Checked
R. WEINBER
Date
16/01/19

**MAMBOURIN ESTATE
STAGE 6
INTERSECTION DETAILS
SHEET 2 OF 3**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION
Drg No
305171R10
Rev
1

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019

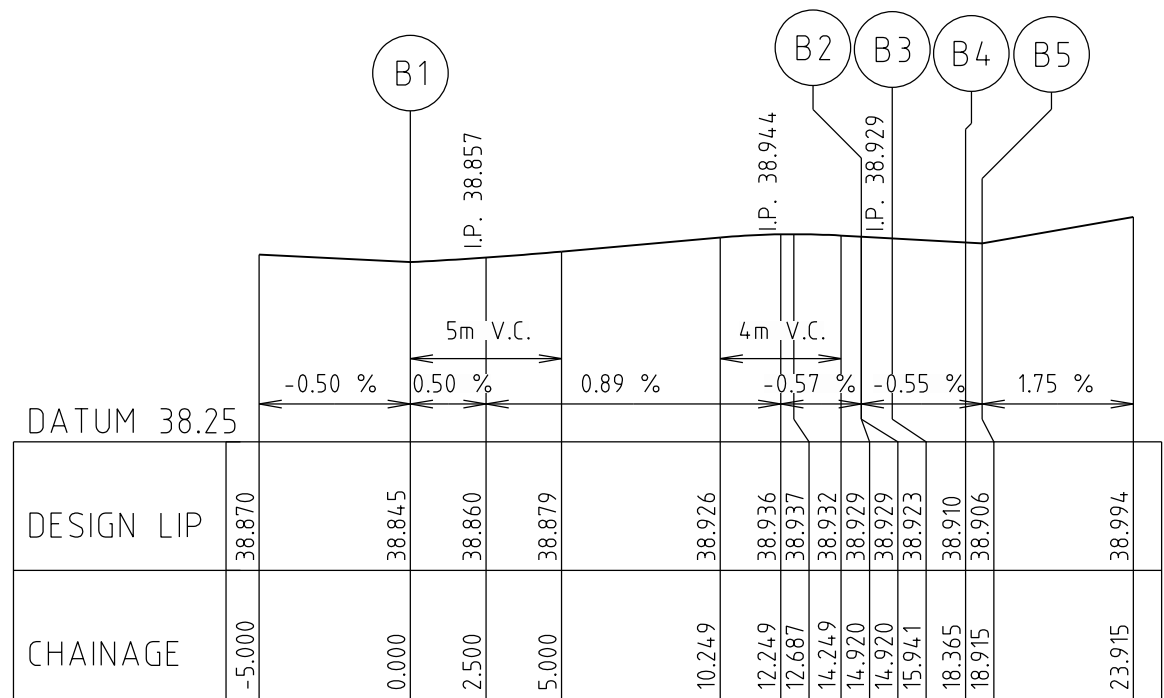


LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288484.098	5803523.676	38.379
1/4	288484.093	5803523.813	38.383
1/2	288484.115	5803523.948	38.386
3/4	288484.163	5803524.077	38.390
A2	288484.235	5803524.194	38.394
A3	288485.701	5803526.118	38.476
1/4	288485.835	5803526.335	38.485
1/2	288485.924	5803526.574	38.494
3/4	288485.965	5803526.826	38.503
A4	288485.955	5803527.080	38.511
1/4	288485.036	5803529.945	38.597
1/2	288483.186	5803532.318	38.682
3/4	288480.632	5803533.909	38.755
A5	288477.687	5803534.522	38.808
A6	288473.781	5803534.637	38.845

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	0.700	0.550	0.536	0.053	0.013
A3-A4	1.300	1.021	0.995	0.099	-0.025
A4-A5	8.600	12.097	11.124	2.041	-0.526

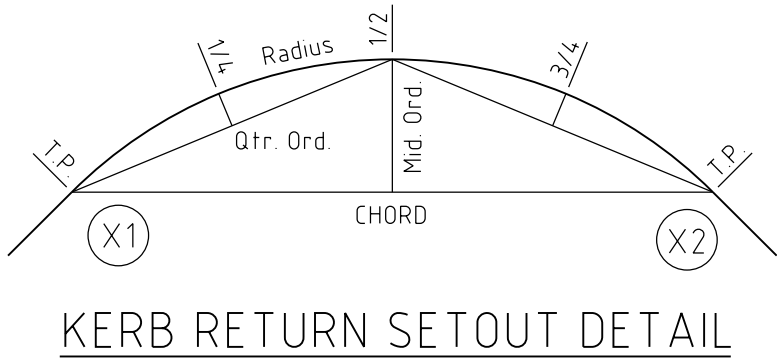
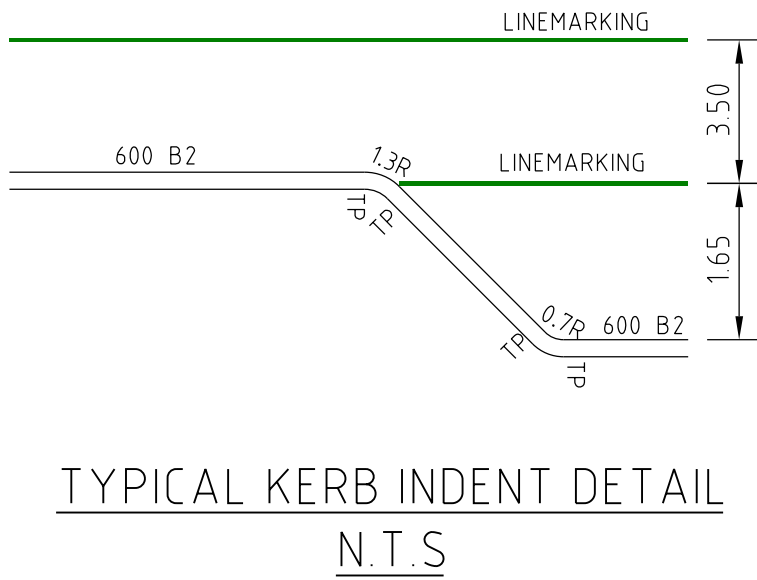


LIP LINE B
Hor250
Ver25

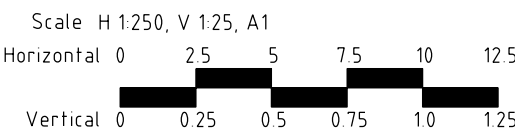
ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288473.970	5803541.034	38.845
1/4	288477.606	5803541.724	38.869
1/2	288480.615	5803543.878	38.901
3/4	288482.441	5803547.097	38.933
B2	288482.745	5803550.785	38.929
1/4	288482.686	5803551.033	38.927
1/2	288482.580	5803551.265	38.926
3/4	288482.431	5803551.471	38.924
B3	288482.244	5803551.645	38.923
B4	288480.316	5803553.113	38.910
1/4	288480.215	5803553.207	38.909
1/2	288480.135	5803553.318	38.908
3/4	288480.078	5803553.443	38.907
B5	288480.046	5803553.576	38.906

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	14.920	13.118	3.038	-0.796
B2-B3	1.300	1.021	0.995	0.099	-0.025
B4-B5	0.700	0.550	0.536	0.053	0.013



Rev	Amendments	Approved	Date
1	DRAINAGE ALIGNMENT UPDATED	M.L.	05/09/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



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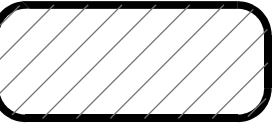
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M. LETSON

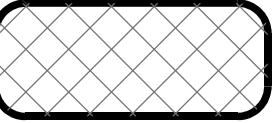
Checked
R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
INTERSECTION DETAILS
SHEET 3 OF 3
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No
305171R11
Rev
1

CRUSHED ROCK BACKFILL LEGEND



CLASS 2 CRUSHED ROCK



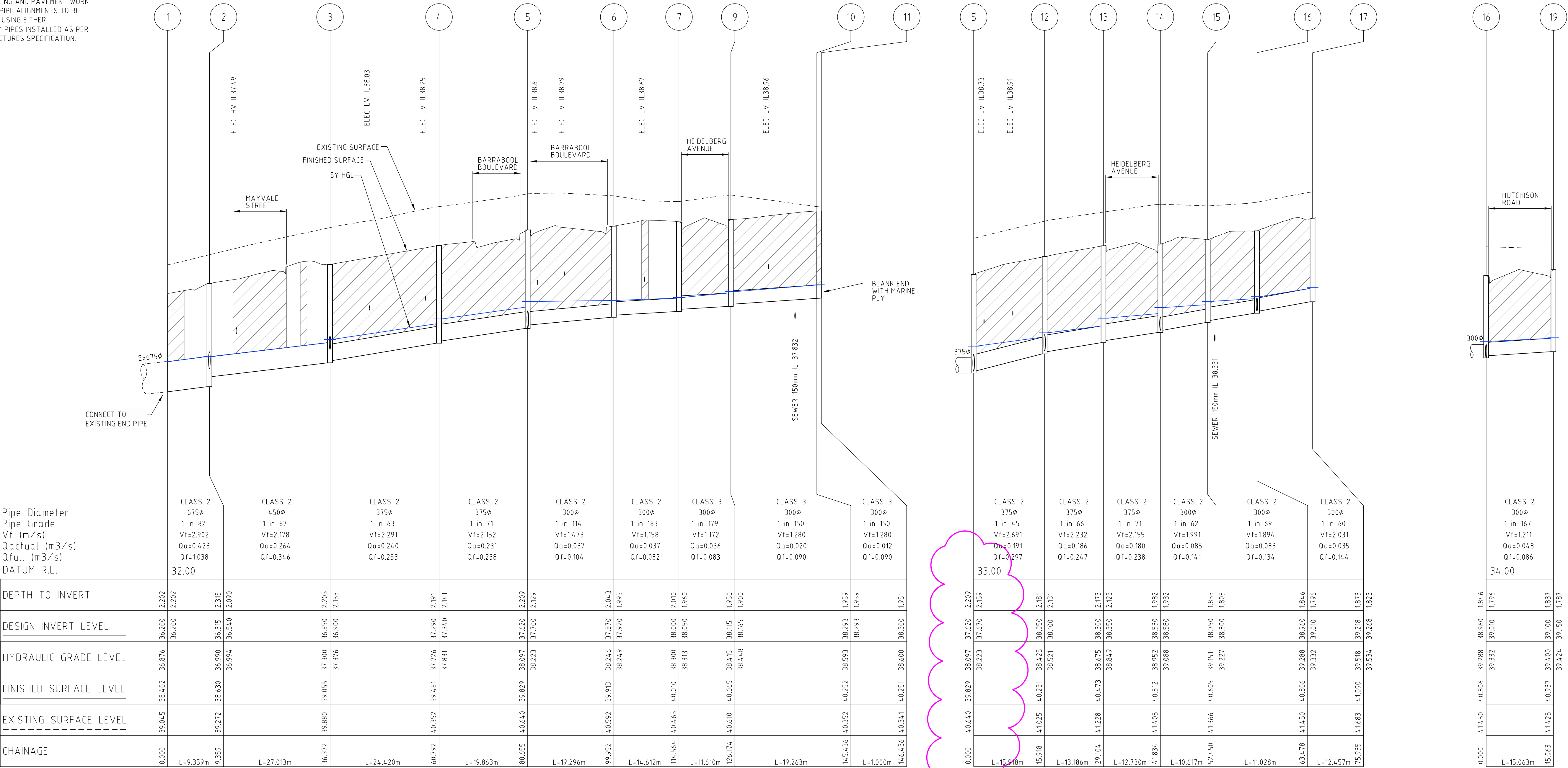
CLASS 3 CRUSHED ROCK

NOTE

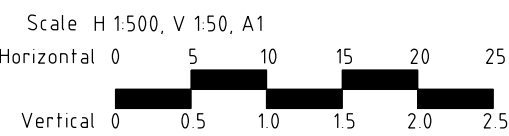
1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
2. DRAINAGE PIPES GREATER THAN 750Ø ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS
3. CCTV FOOTAGE IS TO BE PROVIDED TO WCC FOR REVIEW FOR ALL CLASS 4 RCP PIPES WITH THE ROAD RESERVE
CCTV SHALL BE UNDERTAKEN AFTER BACKFILLING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

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 12/09/2019



3	PIT 5 I/L UPDATED	M.L.	05/09/19
2	DRAINAGE LONG SECTIONS UPDATED	M.L.	05/09/19
1	FINISHED & DEPTH TO INVERT LEVEL UPDATED FROM PIT 5 TO 18	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19
Rev	Amendments	Approved	Date



AS/NZS ISO 9001
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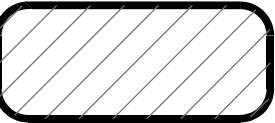
Designed T. WONG	Checked R. WEINBER
Authorised M. LETSON	Date 16/01/19

MAMBOURIN ESTATE
STAGE 6
DRAINAGE LONG SECTION
SHEET 1 OF 4

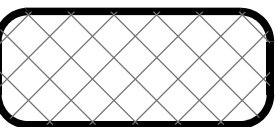
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No 305171R12 Rev 3

CRUSHED ROCK BACKFILL LEGEND



CLASS 2 CRUSHED ROCK



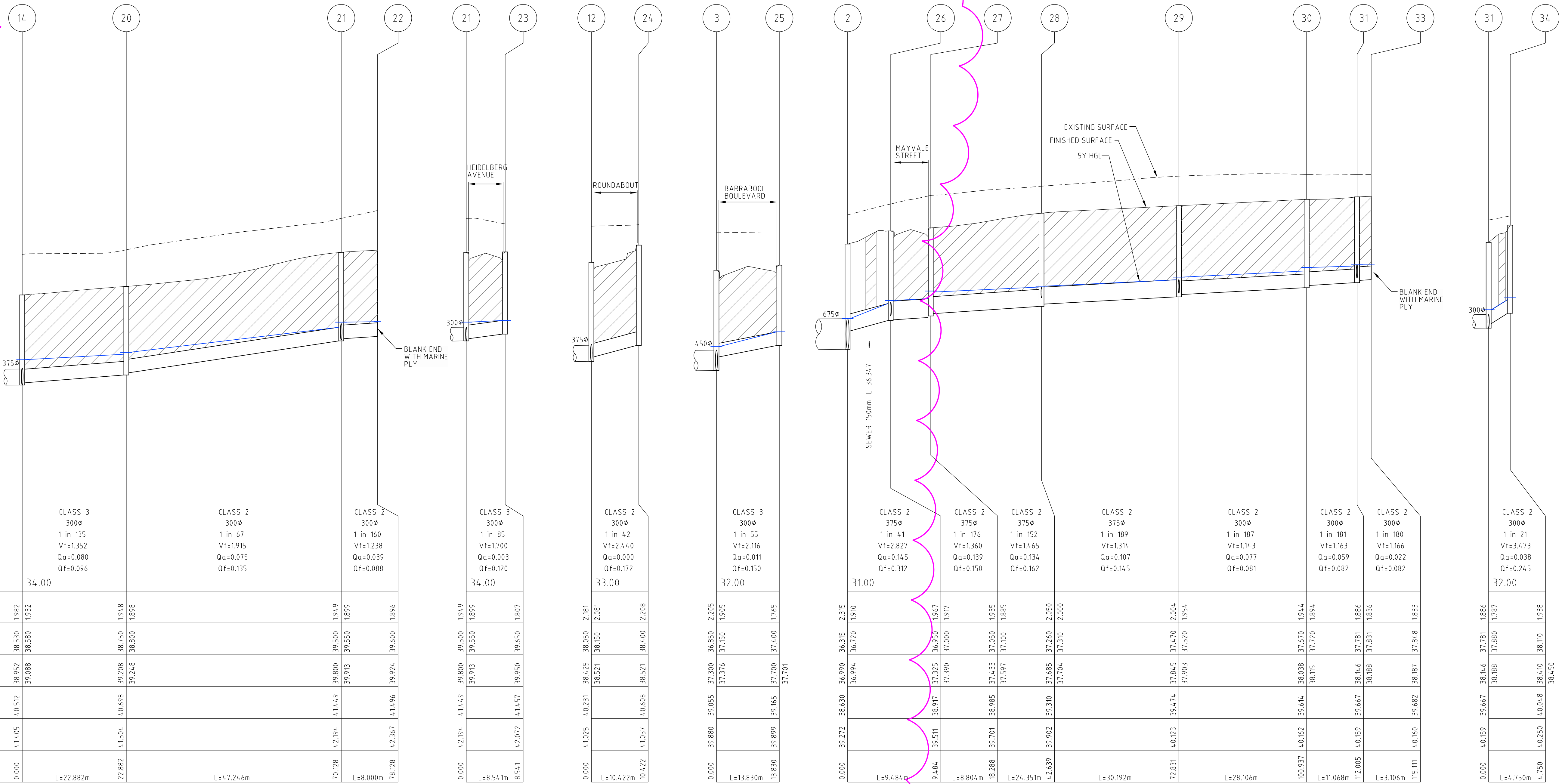
CLASS 3 CRUSHED ROCK

NOTE:

1. ALL PIPES TO BE R/RJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
2. DRAINAGE PIPES GREATER THAN 750Ø 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 ACHIEVED USING EITHER:
a) SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION

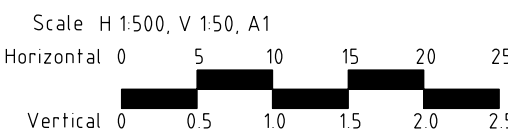
Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 06/09/2019



Pipe Diameter	CLASS 3 300Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 3 300Ø	CLASS 3 300Ø	CLASS 2 375Ø	CLASS 2 375Ø	CLASS 2 375Ø	CLASS 2 375Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 2 300Ø	CLASS 2 300Ø
Pipe Grade	1 in 135	1 in 67	1 in 160	1 in 85	1 in 42	1 in 55	1 in 176	1 in 152	1 in 189	1 in 187	1 in 181	1 in 180	1 in 21
Vf (m/s)	Vf=1.352	Vf=1.915	Vf=1.238	Vf=1.700	Vf=2.440	Vf=2.116	Vf=1.360	Vf=1.465	Vf=1.314	Vf=1.143	Vf=1.163	Vf=1.166	Vf=3.473
Qactual (m3/s)	Qa=0.080	Qa=0.075	Qa=0.039	Qa=0.003	Qa=0.000	Qa=0.011	Qa=0.139	Qa=0.134	Qa=0.107	Qa=0.077	Qa=0.059	Qa=0.022	Qa=0.038
Qfull (m3/s)	Qf=0.096	Qf=0.135	Qf=0.088	Qf=0.120	Qf=0.172	Qf=0.150	Qf=0.150	Qf=0.162	Qf=0.145	Qf=0.081	Qf=0.082	Qf=0.082	Qf=0.245
DATUM R.L.	34.00			34.00	33.00	32.00	31.00						32.00
DEPTH TO INVERT	1.982	1.932		1.949	1.899	1.807	2.315	1.910			1.944	1.886	1.938
DESIGN INVERT LEVEL	38.530	38.580		39.500	39.550	39.650	36.950	36.950	37.000	37.000	37.000	37.000	37.000
HYDRAULIC GRADE LEVEL	38.552	39.088		39.800	39.913	39.950	37.325	37.390	37.685	37.685	37.685	37.685	37.685
FINISHED SURFACE LEVEL	4.0512	4.0698		4.1449	4.1457	4.1456	38.917	39.000	39.310	39.310	39.310	39.310	39.310
EXISTING SURFACE LEVEL	4.1405	4.1504		4.2194	4.2072	4.2072	39.511	39.701	39.902	39.902	39.902	39.902	39.902
CHAINAGE	0.000	L=22.882m		70.128	L=8.000m	78.128	L=9.484m	L=8.804m	L=24.351m	L=30.192m	L=28.106m	L=11.068m	L=3.106m

Rev	Amendments	Approved	Date
2	DRAINAGE LONG SECTIONS UPDATED	M.L.	05/09/19
1	FINISHED & DEPTH TO INVERT LEVEL UPDATED FROM PIT 14 TO 20	M.L.	26/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19



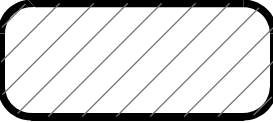
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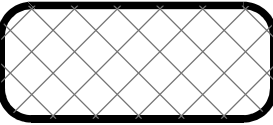
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Authorised
M. LETSON
Checked
R. WEINBER
Date
16/01/19

**MAMBOURIN ESTATE
STAGE 6
DRAINAGE LONG SECTION
SHEET 2 OF 4**
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION Drg No
305171R13 Rev
2

CRUSHED ROCK BACKFILL LEGEND



CLASS 2 CRUSHED ROCK



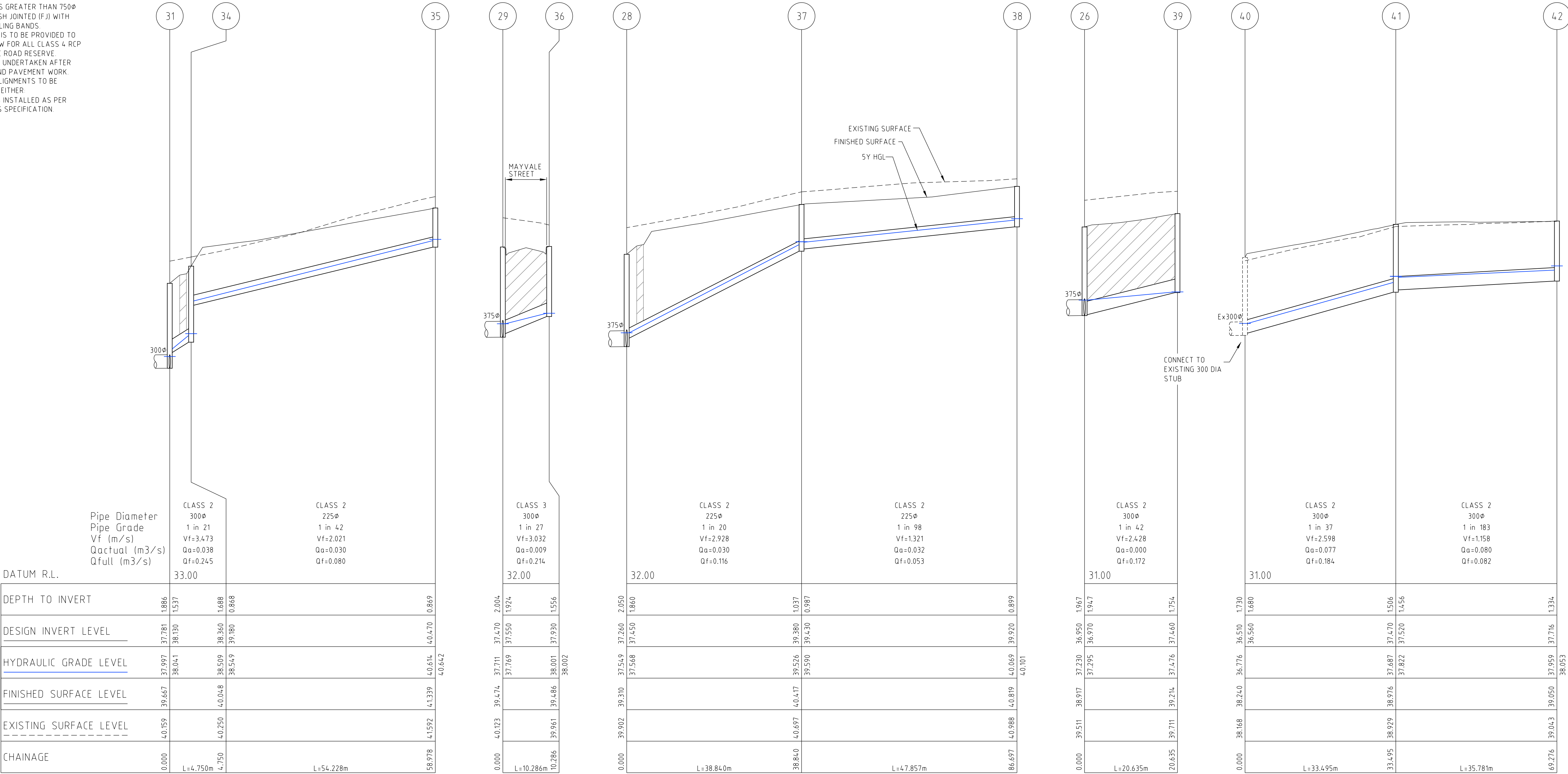
CLASS 3 CRUSHED ROCK

NOTE:

1. ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
2. DRAINAGE PIPES GREATER THAN 750Ø 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. 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

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 43
Permit No WYP10554/17
Date 6/06/2019



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



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Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
DRAINAGE LONG SECTION
SHEET 3 OF 4

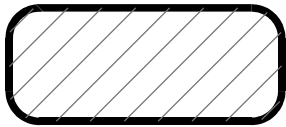
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION

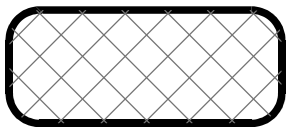
Drg No
305171R14

Rev
0

CRUSHED ROCK BACKFILL LEGEND



CLASS 2 CRUSHED ROCK



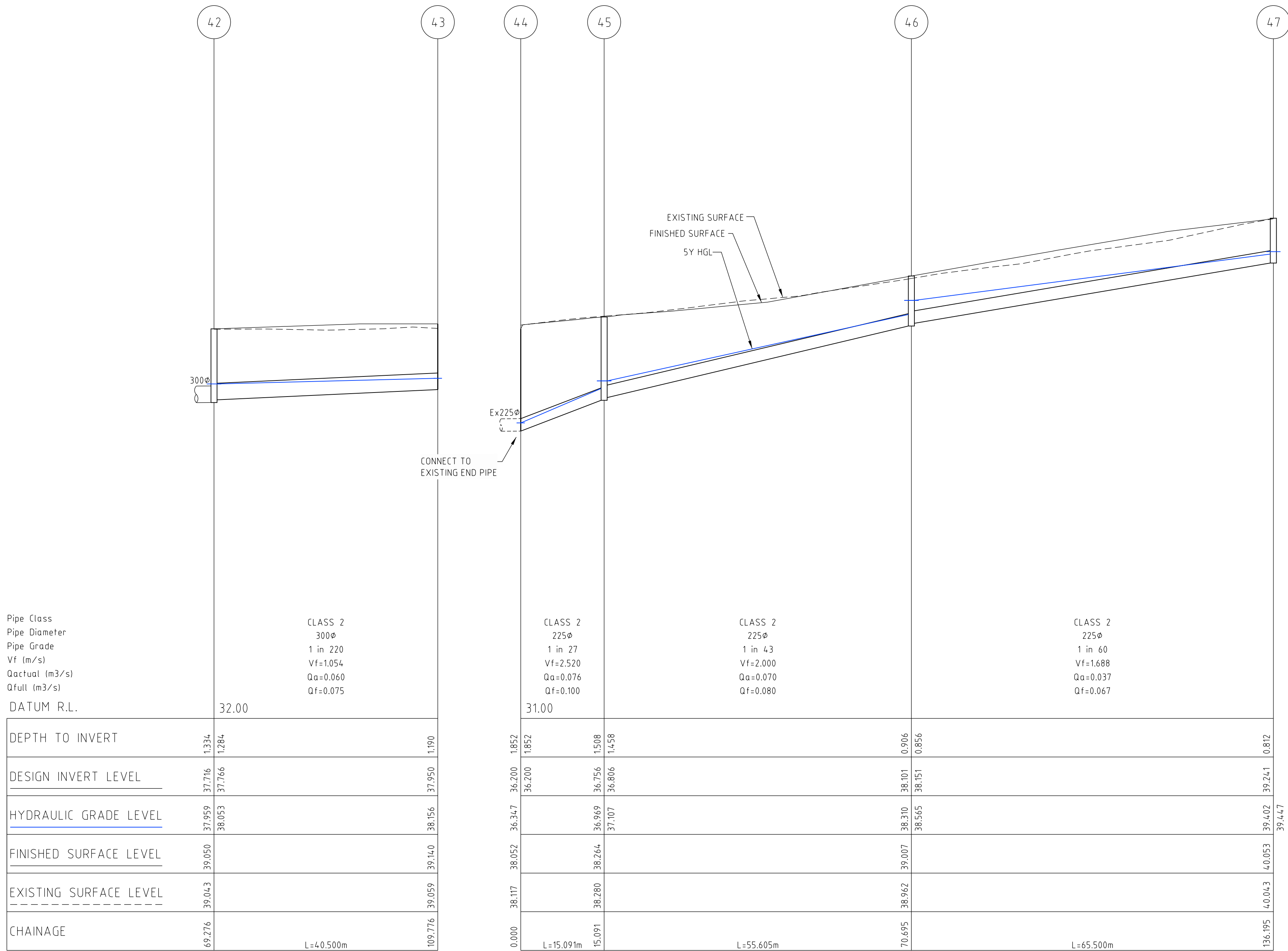
CLASS 3 CRUSHED ROCK

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. 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.

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 43
Permit No WYP10554/17
Date 6/06/2019



0	CONSTRUCTION ISSUE	M.L.	27/05/19
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Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
DRAINAGE LONG SECTION
SHEET 4 OF 4

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION

Drg No
305171R15

Rev
0

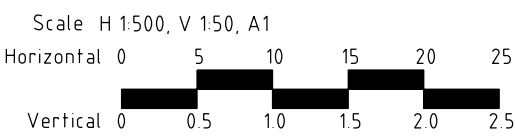
DRAINAGE PIT SCHEDULE

PIT		INTERNAL		INLET		OUTLET		PIT		REMARKS
NAME	TYPE	LENGTH	WIDTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
1	EXISTING END PIPE			675	36.200			38.402	2.202	CONNECT EXISTING END PIPE CONSTRUCTED WITH STAGE 3 WORKS
2	JUNCTION PIT	900	900	450	36.540	675	36.315	38.630	2.315	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING AS PER EDCM 607)
				375	36.720					
3	SIDE ENTRY PIT GRATED	900	600	375	36.900	450	36.850	39.055	2.205	REFER DRAWING - EDCM 601
				300	37.150					
4	JUNCTION PIT	900	600	375	37.340	375	37.290	39.481	2.191	REFER DRAWING - EDCM 605
5	JUNCTION PIT	900	600	300	37.700	375	37.620	39.829	2.209	REFER DRAWING - EDCM 605
				375	37.670					
6	JUNCTION PIT	900	600	300	37.920	300	37.870	39.913	2.043	REFER DRAWING - EDCM 605 PROVIDE HEAVY DUTY PIT COVER
7	SIDE ENTRY PIT GRATED	900	600	300	38.050	300	38.000	40.010	2.010	REFER DRAWING - EDCM 601
9	SIDE ENTRY PIT	900	600	300	38.165	300	38.115	40.065	1.950	REFER DRAWING - EDCM 602
	DOUBLE GRATED									
10	TANGENT POINT			300	38.293	300	38.293	40.252	1.959	PIPE TANGENT POINT
11	END PIPE					300	38.300	40.251	1.951	BLANK END WITH MARINE PLY
12	JUNCTION PIT	900	600	375	38.100	375	38.050	40.231	2.181	REFER DRAWING - EDCM 605 PROVIDE HEAVY DUTY PIT COVER
				300	38.150					
13	SIDE ENTRY PIT GRATED	900	600	375	38.350	375	38.300	40.473	2.173	REFER DRAWING - EDCM 601
14	SIDE ENTRY PIT	900	600	300	38.580	375	38.530	40.512	1.982	REFER DRAWING - EDCM 602
	DOUBLE GRATED			300	38.580					
15	SIDE ENTRY PIT GRATED	900	600	300	38.800	300	38.750	40.605	1.855	REFER DRAWING - EDCM 603 PROVIDE HEAVY DUTY PIT COVER
16	JUNCTION PIT	900	600	300	39.010	300	38.960	40.806	1.846	
				300	39.010					
17	SIDE ENTRY PIT GRATED	900	600	300	39.268	300	39.218	41.088	1.870	REFER DRAWING - EDCM 601
19	SIDE ENTRY PIT GRATED	900	600	300	39.150	300	39.100	40.935	1.835	REFER DRAWING - EDCM 601
20	JUNCTION PIT	900	600	300	38.800	300	38.750	40.698	1.948	REFER DRAWING - EDCM 605
21	SIDE ENTRY PIT GRATED	900	600	300	39.550	300	39.500	41.449	1.949	REFER DRAWING - EDCM 601
				300	39.550					
22	END PIPE					300	39.600	41.496	1.896	BLANK END WITH MARINE PLY
23	SIDE ENTRY PIT GRATED	900	600			300	39.650	41.457	1.807	REFER DRAWING - EDCM 601
24	JUNCTION PIT	900	600			300	38.400	40.608	2.208	REFER DRAWING - EDCM 605
25	SIDE ENTRY PIT GRATED	900	600			300	37.400	39.165	1.765	REFER DRAWING - EDCM 601
26	SIDE ENTRY PIT GRATED	900	600	375	37.000	375	36.950	38.917	1.967	REFER DRAWING - EDCM 601
				300	37.050					
27	SIDE ENTRY PIT GRATED	900	600	375	37.100	375	37.050	38.985	1.935	REFER DRAWING - EDCM 601
28	JUNCTION PIT	900	600	375	37.310	375	37.260	39.310	2.050	REFER DRAWING - EDCM 605
				225	37.450					
29	SIDE ENTRY PIT GRATED	900	600	300	37.520	375	37.470	39.474	2.004	REFER DRAWING - EDCM 601
				300	37.550					
30	JUNCTION PIT	900	600	300	37.720	300	37.670	39.614	1.944	REFER DRAWING - EDCM 605
31	JUNCTION PIT	900	600	300	37.831	300	37.781	39.667	1.886	REFER DRAWING - EDCM 605
				300	37.880					
33	END PIPE					300	37.848	39.682	1.833	BLANK END WITH MARINE PLY
34	JUNCTION PIT	900	600	225	39.180	300	38.110	40.048	1.938	REFER DRAWING - EDCM 605
35	JUNCTION PIT	900	600			225	40.470	41.339	0.869	REFER DRAWING - EDCM 605
36	SIDE ENTRY PIT GRATED	900	600			300	37.800	39.486	1.686	REFER DRAWING - EDCM 601
37	JUNCTION PIT	900	600	225	39.430	225	39.380	40.417	1.037	REFER DRAWING - EDCM 605
38	JUNCTION PIT	900	600			225	39.920	40.819	0.899	REFER DRAWING - EDCM 605
39	JUNCTION PIT	900	600			300	37.350	39.214	1.864	REFER DRAWING - EDCM 605
40	EXISTING JUNCTION PIT			300	36.560			38.240	1.730	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE 3 WORKS
41	JUNCTION PIT	900	600	300	37.520	300	37.470	38.976	1.506	REFER DRAWING - EDCM 605
42	JUNCTION PIT	900	600	300	37.766	300	37.716	39.050	1.334	REFER DRAWING - EDCM 605
43	END PIPE					300	37.950	39.140	1.190	BLANK END WITH MARINE PLY
44	EXISTING END PIPE			225	36.200			38.052	1.852	CONNECT EXISTING END PIPE CONSTRUCTED WITH STAGE 3 WORKS
45	JUNCTION PIT	900	600	225	36.806	225	36.756	38.264	1.508	REFER DRAWING - EDCM 605
46	JUNCTION PIT	900	600	225	38.151	225	38.101	39.007	0.906	REFER DRAWING - EDCM 605
47	JUNCTION PIT	900	600			225	39.241	40.053	0.812	REFER DRAWING - EDCM 605

Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 12/09/2019

3	PIT SCHEDULE UPDATED PITS 5 / 6 / 12 / 15	M.L	10/09/19
2	PIT SCHEDULE UPDATED	M.L	05/09/19
1	PITS 5, 6, 7, 8, 9, 9A, 10, 11, 11A, 14, 15, 16, 17, 18 & 20 FINISHED & DEPTH LEVELS	M.L	26/06/19
	UPDATED.		
0	CONSTRUCTION ISSUE	M.L	27/05/19
Rev	Amendments	Approved	Date



The block contains four circular logos. From left to right: 'dlm' with a red star, 'AS/NZS ISO 9001' with a red star, 'AS/NZS ISO 14001' with a yellow star, and 'AS/NZS ISO 45001' with a green star.

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The logo for spiire, featuring the word 'spiire' in a bold, lowercase sans-serif font with a red dot above the 'i'.

spiire.com.au ABN 55 050 029 635

The logo for FRASERS PROPERTY, featuring a stylized red and black graphic to the left of the text 'FRASERS PROPERTY'.

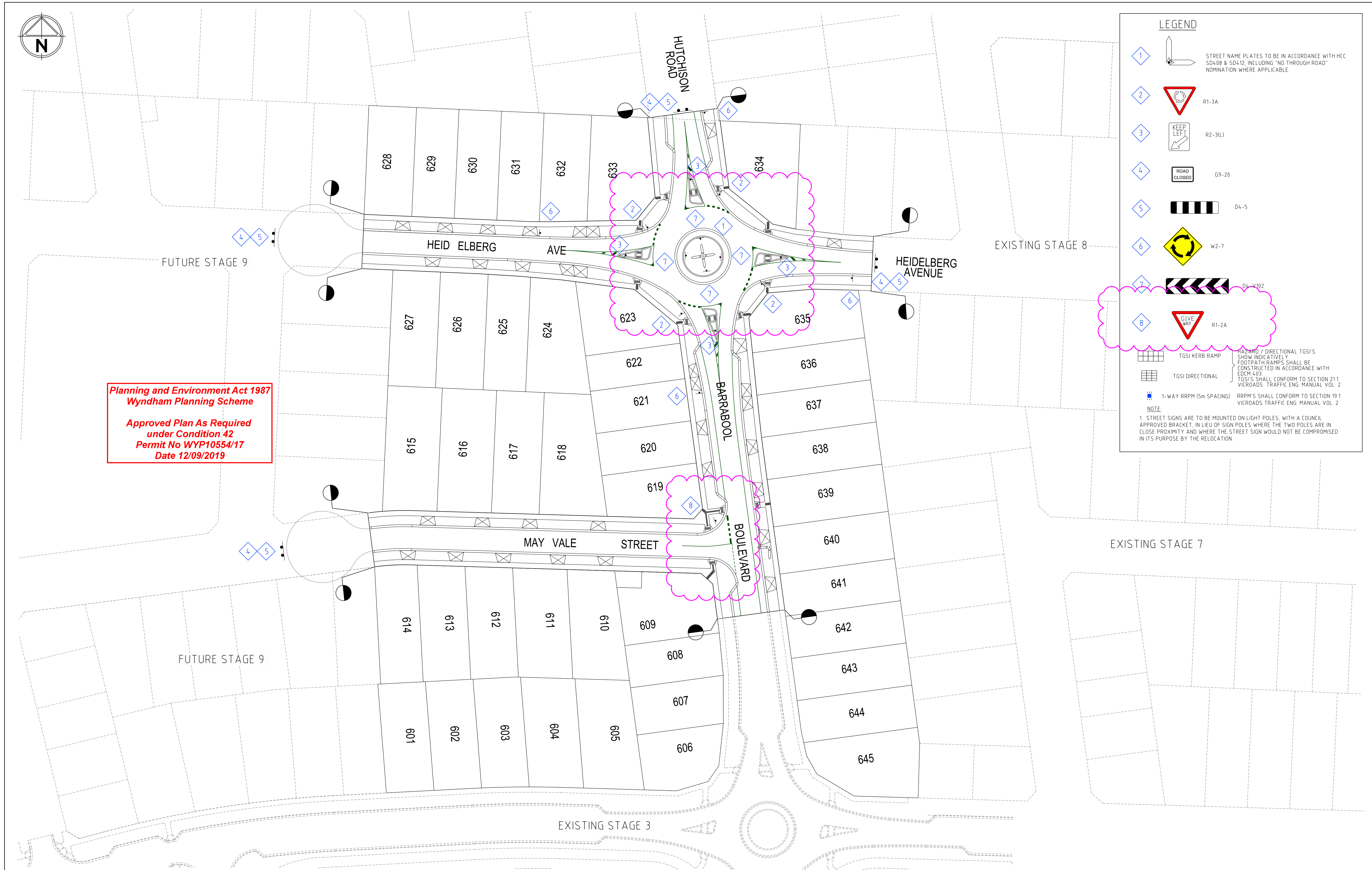
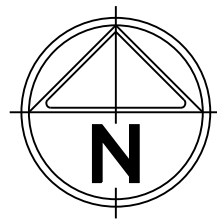
Designed T. WONG	Checked R. WEINBER
Authorised M. LETSON	Date 16/01/19

MAMBOURIN ESTATE
STAGE 6
PIT SCHEDULE

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION Drg No
305171R16

Rev
3



Planning and Environment Act 1987
Wyndham Planning Scheme

Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 12/09/2019

LEGEND

1

STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD408 & SD412, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.

2

R1-3A

3

R2-3(L)

4

G9-20

5

D4-5

6

W2-7

7

D4-V102

8

R1-2A

TGSi KERB RAMP

HAZARD / DIRECTIONAL TGSi'S SHOW INDICATIVELY

TGSi DIRECTIONAL

FOOTPATH RAMP SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDCM 403

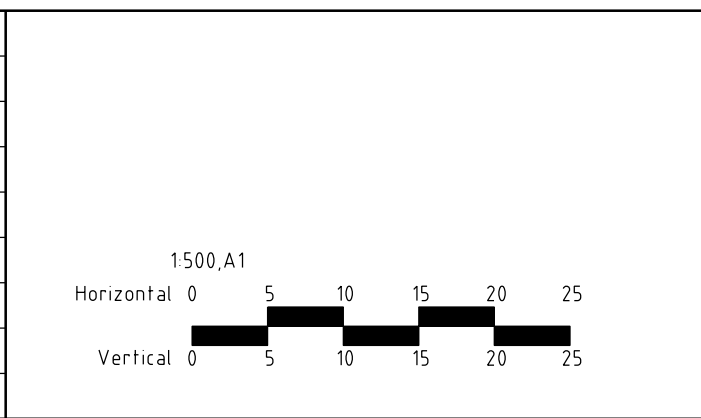
1-WAY RRPM (5m SPACING)

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.

1	GIVEWAY SIGN & LINEMARKING ADDED MAYVALE ST & ROUNDABOUT. TGSIs ADDED	M.L.	05/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19
Rev	Amendments	Approved	Date



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spiire.com.au ABN 55 050 029 635

Designed
T. WONG

Authorised
M. LETSON

Checked
R. WEINBER

Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
SIGNAGE & LINEMARKING

FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM

CONSTRUCTION

Drg No
305171R17

Rev
1

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)	nominal
		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%.

DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 2

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
			ACCESS STREET LVL 2
A	ASPHALT WEARING COURSE	Size 10mm Type N, Class 170 binder	40
B	ASPHALT STRUCTURAL COURSE	Size 10mm Type N, Class 170 binder	40
C		SAMI (size 10 Class S18RF)	nominal
		Bituminous Prime	nominal
D	GRANULAR BASE	20mm Class 2 Fine Crushed Rock	110
UPPER PAVEMENT TOTAL			190
E	GRANULAR SUBBASE	Class 3 Fine Crushed Rock	290
F	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; 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			780

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%.

ROAD TYPE DESIGNATIONS

ROAD NAME	ROAD PAVEMENT TYPE
BARRABOOL BOULEVARD	ACCESS STREET LEVEL 2
HUTCHISON ROAD	ACCESS STREET LEVEL 2
HEIDELBERG AVENUE	ACCESS STREET LEVEL 1
MAYVALE STREET	ACCESS STREET LEVEL 1
ROUNDAABOUT	ROUNDAABOUT

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.

DESIGN PAVEMENT PROFILE FOR ROUNDAABOUT

	PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
			ROUND ABOUT
A	ASPHALT WEARING COURSE	Size 14mm Type V, class 320 binder	40
B	ASPHALT INTERMEDIATE COURSE	Size 20mm Type SI, class 320 binder	75
C	ASPHALT BASE COURSE	Size 20mm Type SF, class 320 binder	75
D		SAMI & Bituminous Prime	nominal
UPPER PAVEMENT TOTAL			190
E	GRANULAR BASE	20mm Class 2 Fine Crushed Rock	200
F	CAPPING LAYER	Type A - Working platform achieving CBR > 5%; Properties: CBR > 8.0%, Swell < 15 %, Permeability < 1E-9 m/s To be compacted in 2 layers	230
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			770

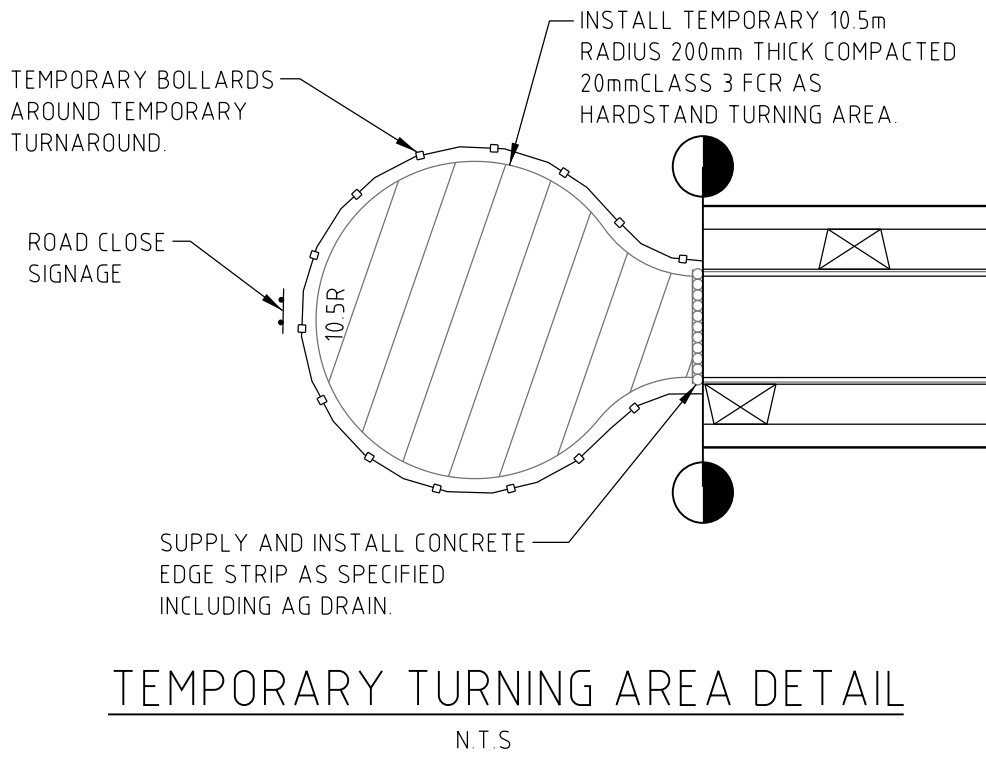
NOTE:
REFER TO COFFEY SERVICES AUSTRALIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

Planning and Environment Act 1987
Wyndham Planning Scheme

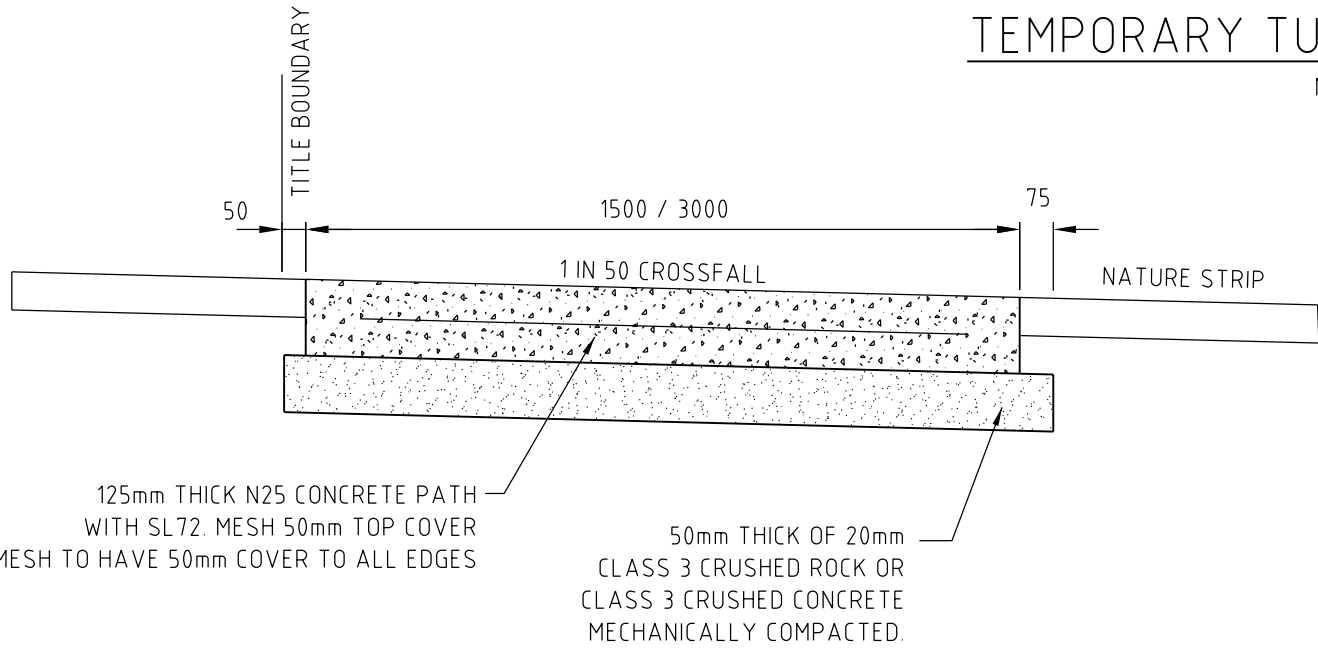
Approved Plan As Required
under Condition 42
Permit No WYP10554/17
Date 12/09/2019

GENERAL NOTES:

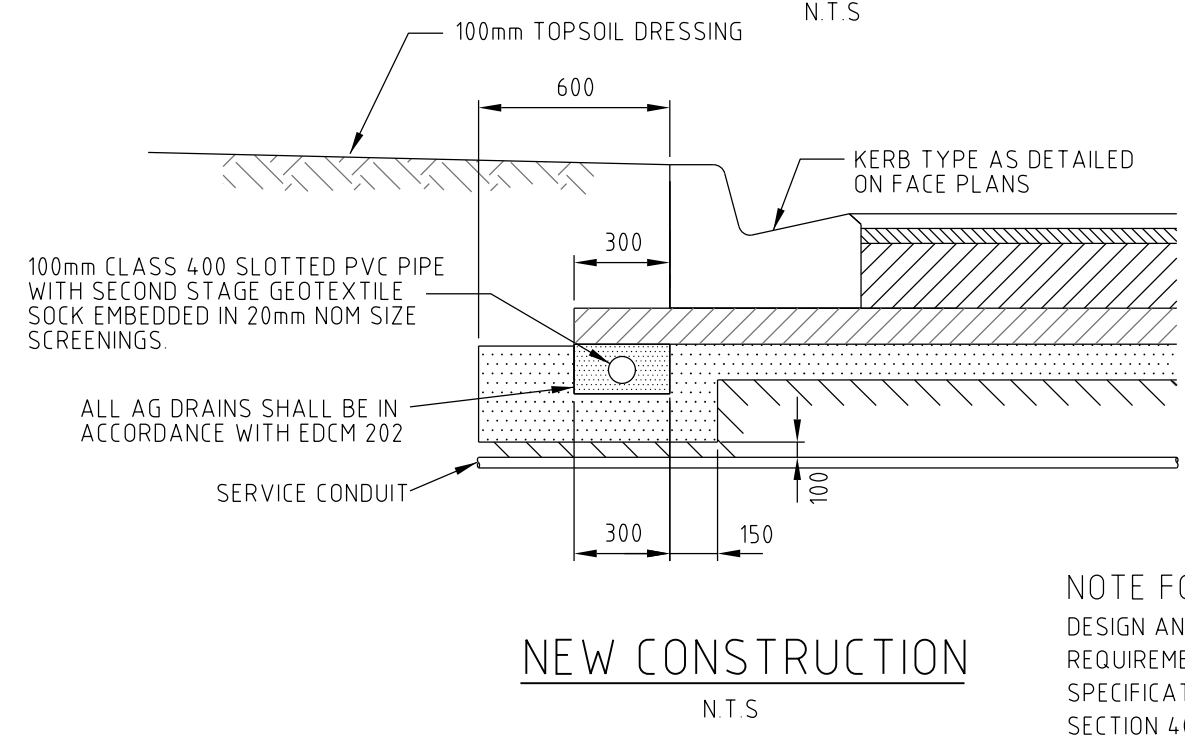
- ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS AND CCAA LITERATURE, OR VIC ROADS STANDARDS FOR NON RESIDENTIAL STREETS.
- ALL CONCRETE TO BE MINIMUM 32MPa COMPRESSIVE STRENGTH.
- CONCRETE TO BE THOROUGHLY COMPACTED USING EITHER SURFACE AND/OR IMMERSION VIBRATORS, PARTICULARLY AROUND REINFORCEMENT AND IN CORNERS OF FORMS.
- PRIOR TO CASTING, THE UNBOUND GRANULAR SUBBASE MUST BE DAMP TO ENSURE NO EARLY "DRYING OUT" OF THE CONCRETE.
- CURING OF CONCRETE IS ESSENTIAL - IDEALLY BY MAINTAINING WET HESSIAN OR SEALING WITH PLASTIC SHEETING.
- SAW CUTTING OF CONCRETE SHOULD BE COMMENCED AS SOON AS CONCRETE PERMITS BY EXPERIENCED CONTRACTORS, BUT NO LATER THAN 12 HOURS AFTER POUR.
- 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.
- ALL JOINTS TO BE APPROPRIATELY SEALED TO RESIST THE INTRUSION OF SAND AND GRAVEL AND TO MINIMISE THE INGRESS OF WATER.



TEMPORARY TURNING AREA DETAIL
N T S

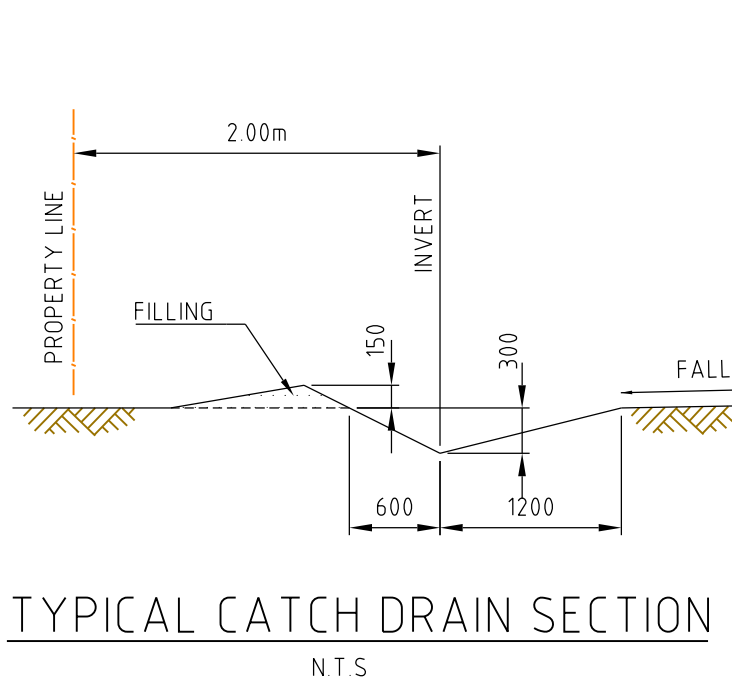
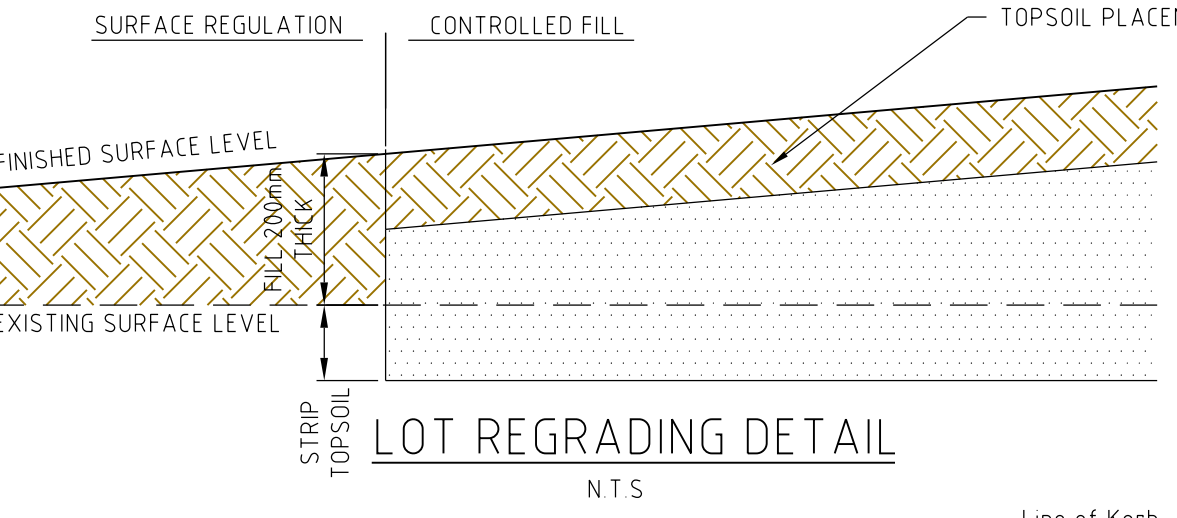


TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION
N T S

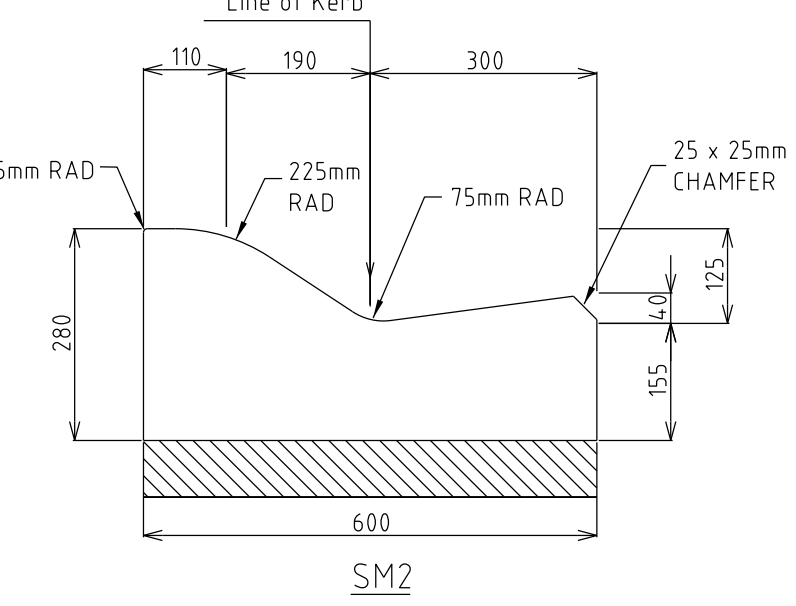


NEW CONSTRUCTION
N T S

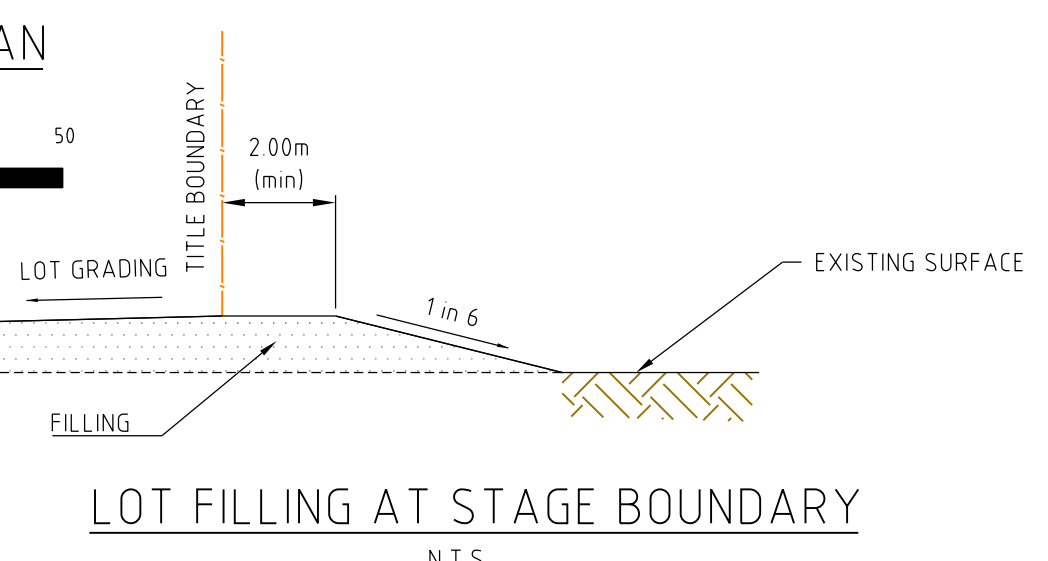
NOTE FOR SAMI TREATMENT
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 408 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD.



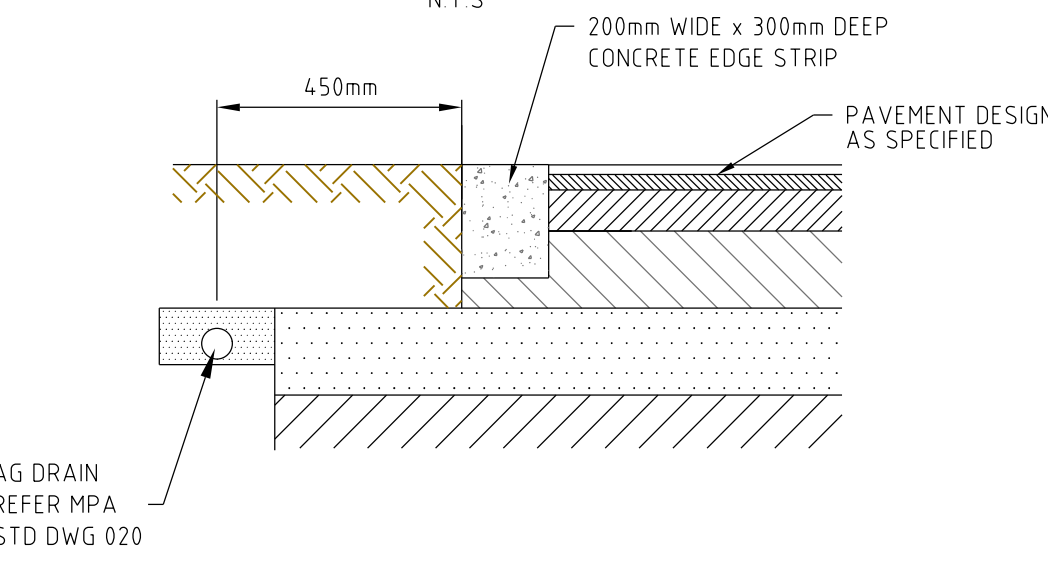
TYPICAL CATCH DRAIN SECTION
N T S



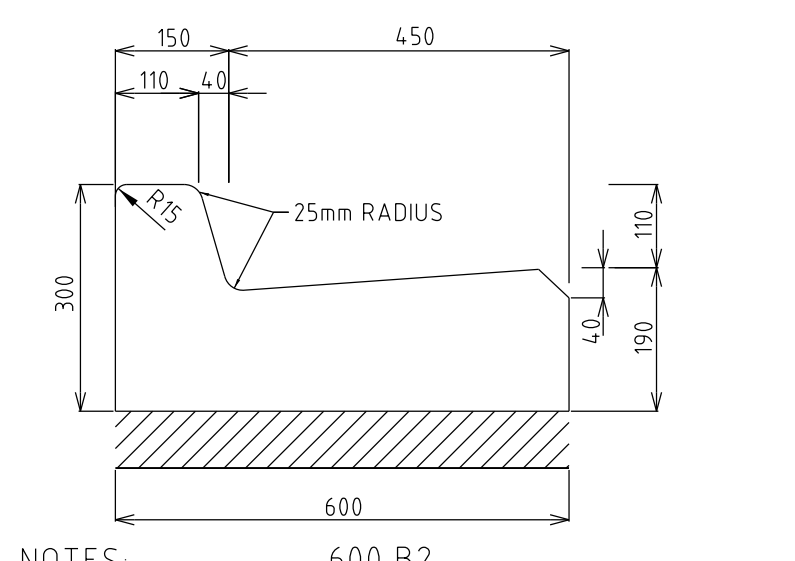
STANDARD KERB PROFILES
NOT TO SCALE



LOT FILLING AT STAGE BOUNDARY
N T S



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



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.

Rev	Amendments	Approved	Date
1	ROUNDAABOUT PAVEMENT PROFILE UPDATED.	M.L.	05/06/19
0	CONSTRUCTION ISSUE	M.L.	27/05/19

NOT TO SCALE

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FRASERS
PROPERTY
Designed
T. WONG
Authorised
M. LETSON

Checked
R. WEINBER
Date
16/01/19

MAMBOURIN ESTATE
STAGE 6
PAVEMENT & TYPICAL DETAILS
FRASER PROPERTY AUSTRALIA
CITY OF WYNDHAM
CONSTRUCTION
Drg No
305171R18
Rev
1