

MAMBOURIN STAGE 22 FRASERS PROPERTY LTD

GENERAL NOTES:

SURVEY

- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM AND ALL COORDINATES ARE TO MAP GRID OF AUSTRALIA MGA 94, 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 MUNICIPALITY SPECIFICATIONS AND STANDARD DRAWINGS AND TO THE SATISFACTORY 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.

EARTHWORKS

- 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, TRENCHES, 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 T.B.M.'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, DESLUGGED 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 PERMISSION.

SERVICES

- 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.
- WATER TAPPINGS TO BE LOCATED IN CENTRE OF ALLOTMENTS UNLESS OTHERWISE SHOWN.
- TELSTRA ARE TO BE NOTIFIED 7 DAYS PRIOR TO PLACEMENT OF CONCRETE WORKS.

STORM WATER DRAINAGE

- AG/SUBSOIL DRAIN TO BE LAID BEHIND KERB WHERE REQUIRED IN ACCORDANCE WITH THE COUNCIL STANDARD DRAWINGS AND CONNECTED TO UNDERGROUND DRAINAGE.
- ALL STORMWATER DRAINS ARE TO BE CLASS '2' R.C. PIPES UNLESS OTHERWISE SHOWN. ALL R.C. JOINTS ARE TO BE RUBBER RING JOINTED (R.R.J.).
- CENTRELINES OF ALL EASEMENT DRAINS ARE OFFSET 1.0m OR 2.2m (WHERE OUTSIDE OF SEWER) FROM THE PROPERTY LINE UNLESS SHOWN OTHERWISE.
- WHERE CURVED PIPES 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.

PAVEMENT

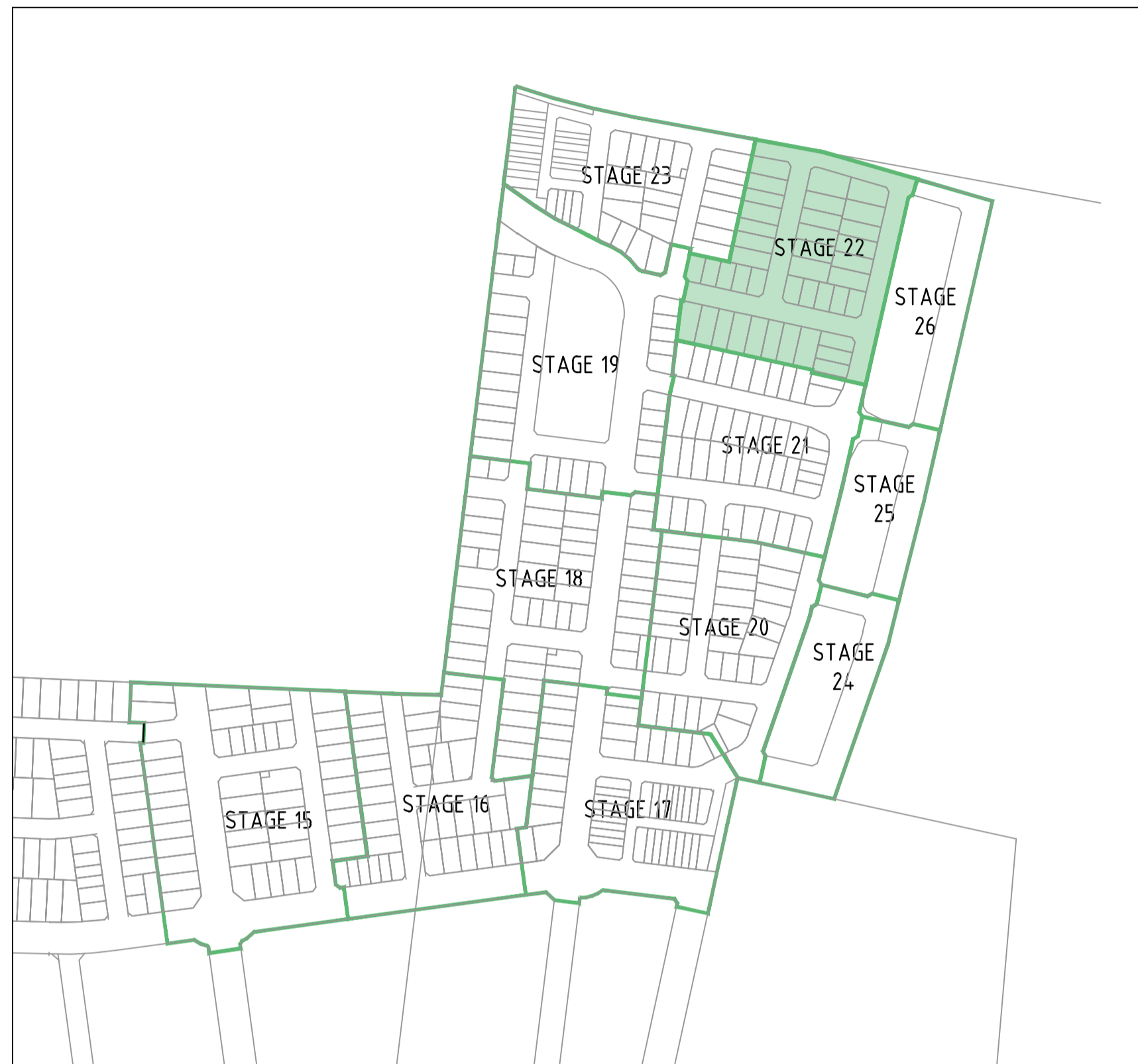
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED 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.

SIGNAGE AND LINEMARKING

- LINEMARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742 SERIES UNLESS NOTED OTHERWISE. STREET SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH COUNCIL 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.

ENVIRONMENTAL

- CONTRACTOR TO PROVIDE AN ENVIRONMENTAL MANAGEMENT PLAN INCLUDING SILT AND SEDIMENT RUNOFF PROTECTION ETC. 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.



LOCALITY PLAN

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DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	B
CR200	ROAD LAYOUT PLANS - FACE PLAN	2	B
CR201	ROAD LAYOUT PLANS - SERVICES PLAN	3	B
CR300	SUSTAIN STREET & WINGEEL STREET LONG SECTIONS	4	A
CR301	RANGLAND STREET & BRUSHTAIL STREET LONG SECTIONS	5	A
CR400	ROAD CROSS SECTIONS - RANGLAND STREET	6	A
CR401	ROAD CROSS SECTIONS - SUSTAIN STREET	7	A
CR402	ROAD CROSS SECTIONS - BRUSHTAIL STREET	8	A
CR403	ROAD CROSS SECTIONS - WINGEEL STREET	9	A
CR500	INTERSECTION DETAILS - SHEET 1 OF 2	10	A
CR501	INTERSECTION DETAILS - SHEET 2 OF 2	11	A
CR600	DRAINAGE LONG SECTIONS - SHEET 1	12	B
CR601	DRAINAGE LONG SECTIONS - SHEET 2	13	B
CR602	DRAINAGE PIT SCHEDULE	14	A
CR700	PAVEMENT AND TYPICAL DETAILS	15	A
CR800	SIGNAGE AND LINEMARKING	16	B



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 ---
OPTIC FIBRE	--- OF ---	--- OF ---
GAS MAIN	--- G ---	--- G ---
SEWER & MAINTENANCE STRUCTURE	--- S ---	--- S ---
CENTRAL INVERT	>--->	>--->
COUNCIL STORMWATER DRAIN AND PIT	--->---	--->---
STORM WATER DRAINAGE PROPERTY INLETS	--->---	--->---
COUNCIL STORM WATER PITS	--->---	--->---
HOUSE DRAIN	---H---	---H---
AG DRAIN AND FLUSHER	---AG---	---AG---
STORM WATER DRAINAGE PIT NUMBER	(Ex. 4.7)	(1)
GAS & WATER CONDUITS	---GW---	---GW---
CONCRETE VEHICLE CROSSING	[Symbol]	[Symbol]
HEAVY DUTY VEHICLE CROSSING	[Symbol]	[Symbol]
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
EARTHWORKS GRADE	1 in 150	1 in 150
SIGN AND POST	[Symbol]	[Symbol]
LIGHT & POLE (BY OTHERS)	[Symbol]	[Symbol]
STREET SIGN	[Symbol]	[Symbol]
PERMANENT SURVEY MARK	[Symbol]	[Symbol]
TEMPORARY BENCH MARK	[Symbol]	[Symbol]
BOLLARD	[Symbol]	[Symbol]
ROAD CHAINAGES	CH116.57 (L/R)T/P CH116.57	CH116.57 (L/R)T/P CH116.57
LOT CHAINAGES	CH20.06	CH20.06
SETOUT POINT	[Symbol]	[Symbol]
LIMIT OF WORKS	[Symbol]	[Symbol]
BATTER	[Symbol]	[Symbol]
EXCAVATION GREATER THAN 0.20m	[Symbol]	[Symbol]
FILLING GREATER THAN 0.20m	[Symbol]	[Symbol]
ROCK BEACHING	[Symbol]	[Symbol]
FENCE - VEHICLE EXCLUSION	[Symbol]	[Symbol]
FENCES	[Symbol]	[Symbol]
TREE (& SURVEYED CANOPY) TO BE RETAINED	[Symbol]	[Symbol]
TREE TO BE PROTECTED	[Symbol]	[Symbol]
TREE TO BE REMOVED	[Symbol]	[Symbol]
VEGETATION LINE	[Symbol]	[Symbol]
FOOTPATH	[Symbol]	[Symbol]
FUTURE CRUSHED ROCK FOOTPATH	[Symbol]	[Symbol]
TACTILE GROUND SURFACE INDICATOR	[Symbol]	[Symbol]
KERB TRANSITION	[Symbol]	[Symbol]

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Rev	Amendments	Approved	Date
B	DRAINAGE ALIGNMENT EXTENDED, SIGNAGE & PRAM CROSSING AMENDED	MI.R	31/01/23
A	PRELIMINARY ISSUE	MI.R	21/12/22

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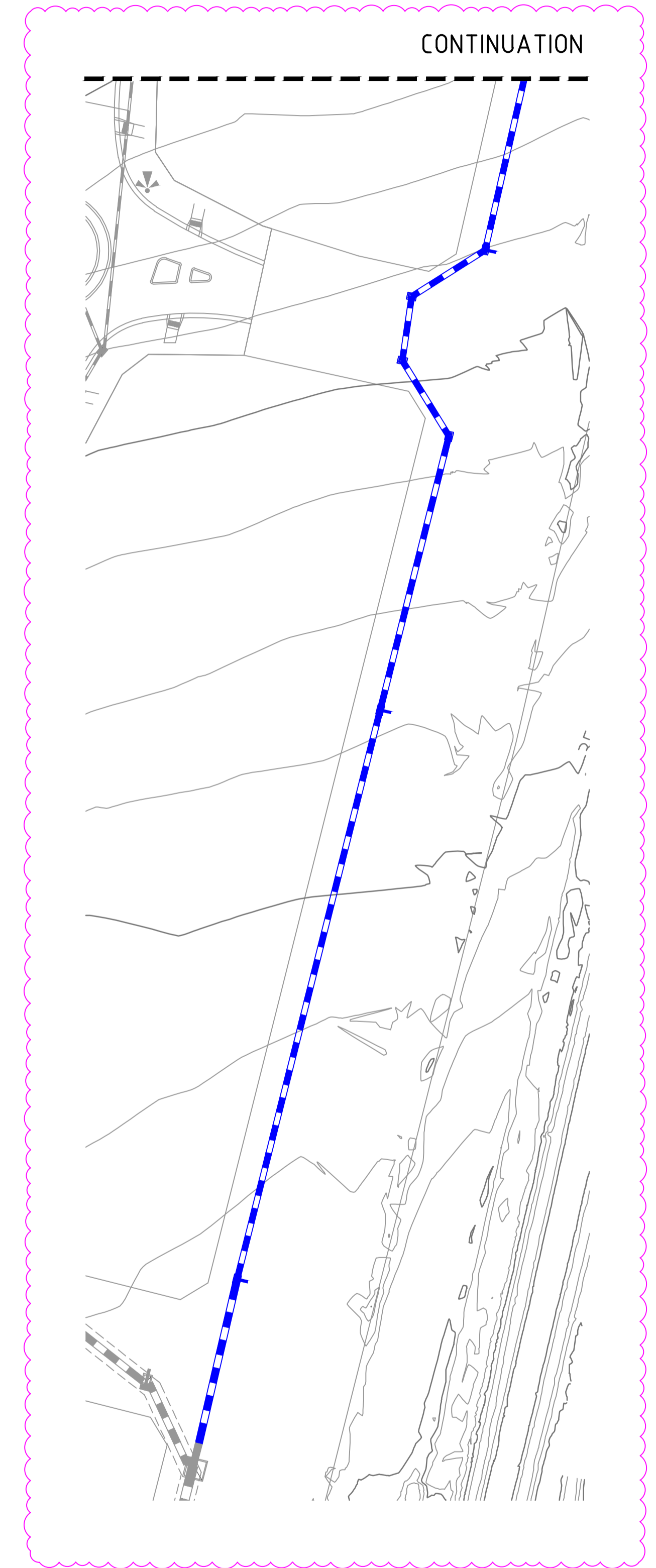
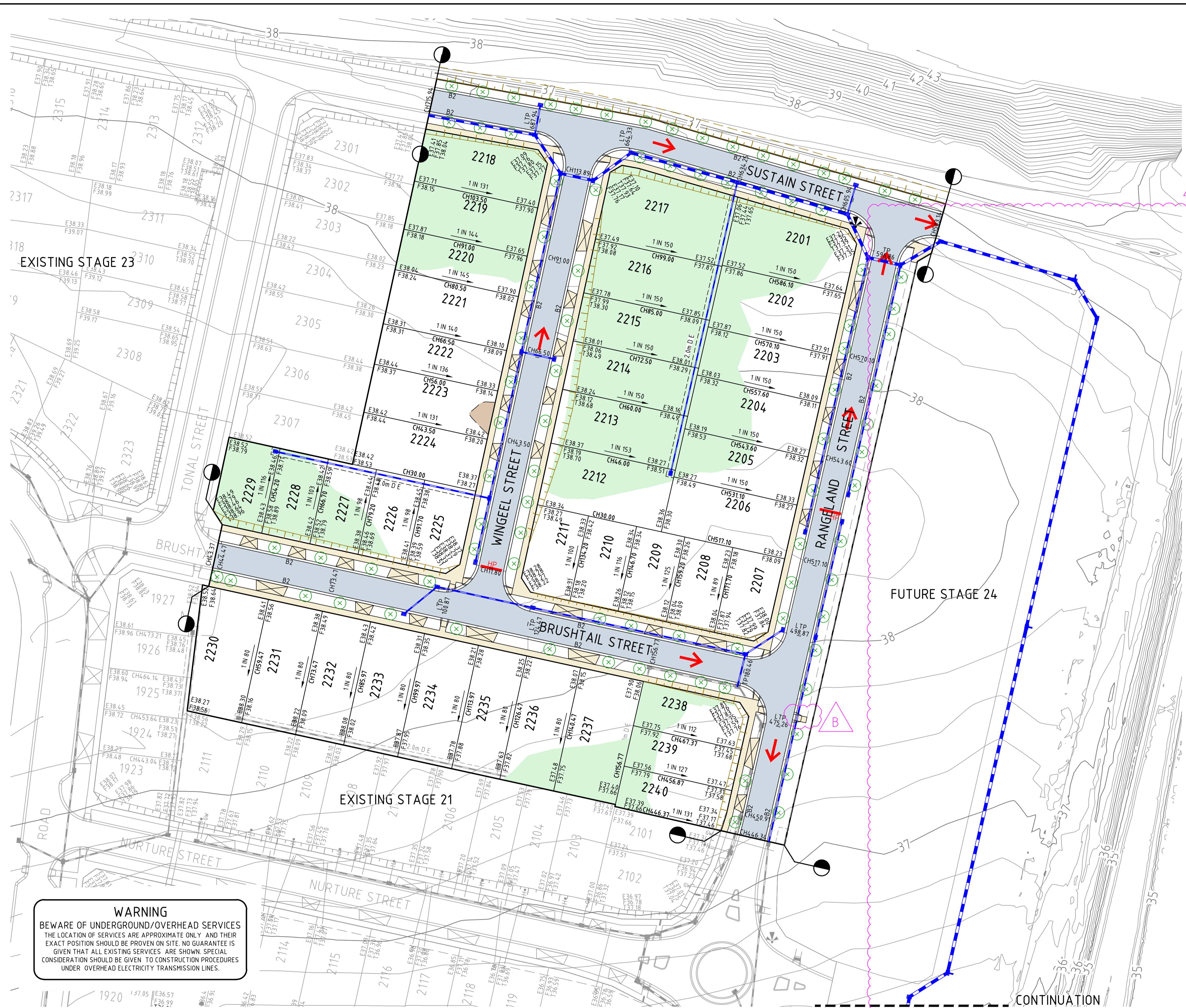
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Designed _____ Checked _____
Authorised _____ Date _____

**MAMBOURIN
STAGE 22
ROAD AND DRAINAGE
GENERAL NOTES**
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

PRELIMINARY Drg No **309509CR100** Rev **B**



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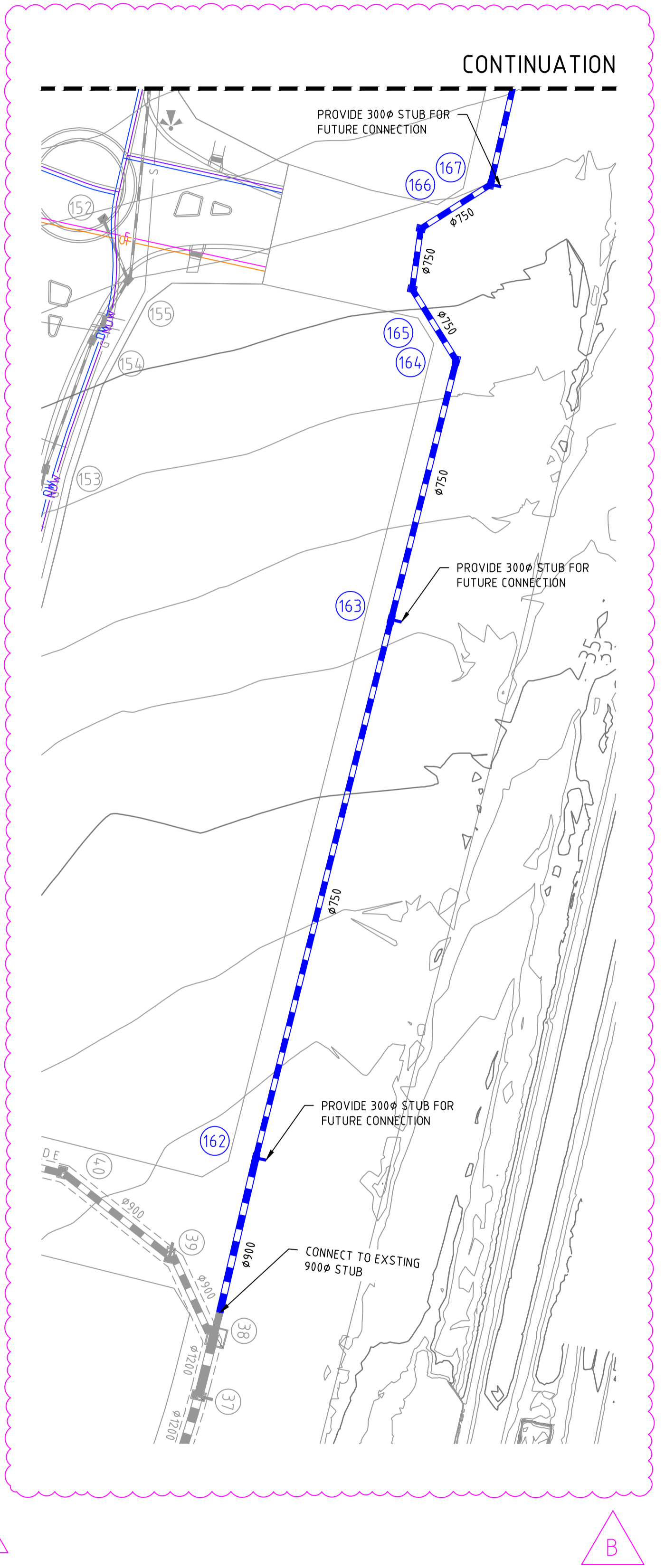
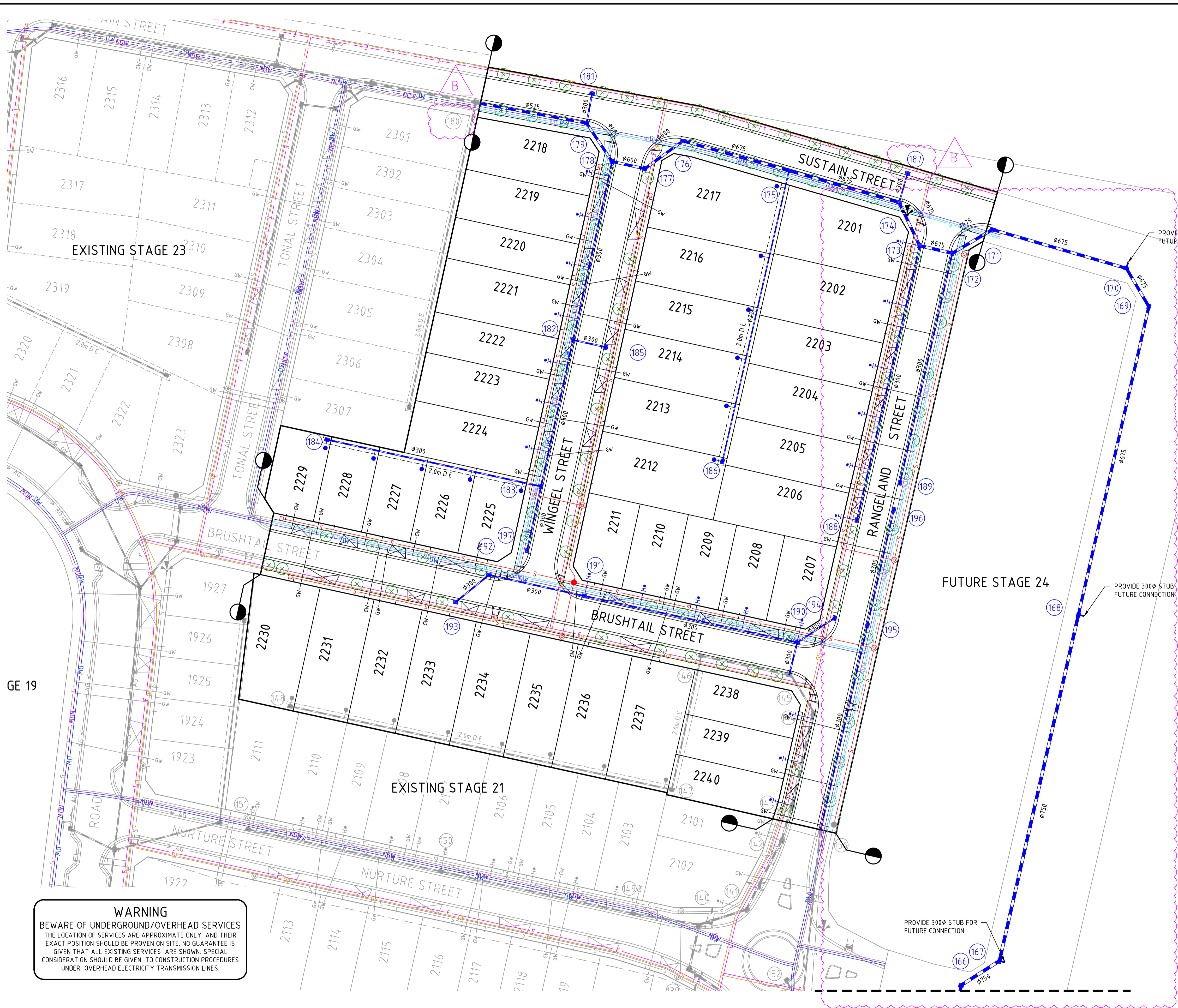
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B	DRAINAGE ALIGNMENT EXTENDED, SIGNAGE & PRAM CROSSING AMENDED	MI.R	31/01/23
A	PRELIMINARY ISSUE	MI.R	21/12/22

**MAMBOURIN
STAGE 22**
ROAD AND DRAINAGE
ROAD LAYOUT PLANS - FACE PLAN
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

PRELIMINARY Drg No **309509CR200** Rev **B**

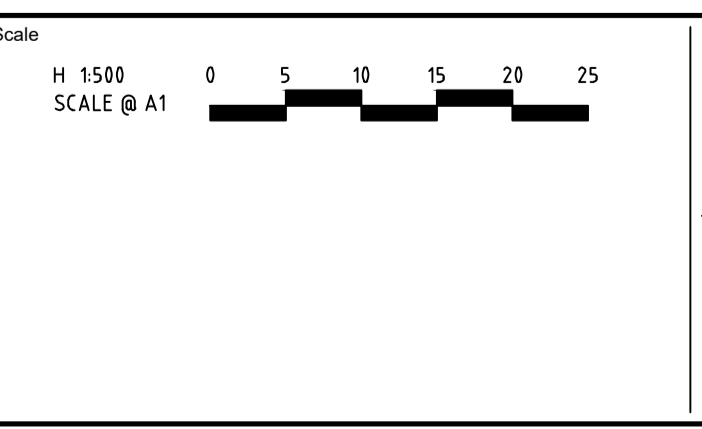
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Rev	Amendments	Approved	Date
B	DRAINAGE ALIGNMENT EXTENDED, SIGNAGE & PRAM CROSSING AMENDED	MI.R	31/01/23
A	PRELIMINARY ISSUE	MI.R	21/12/22



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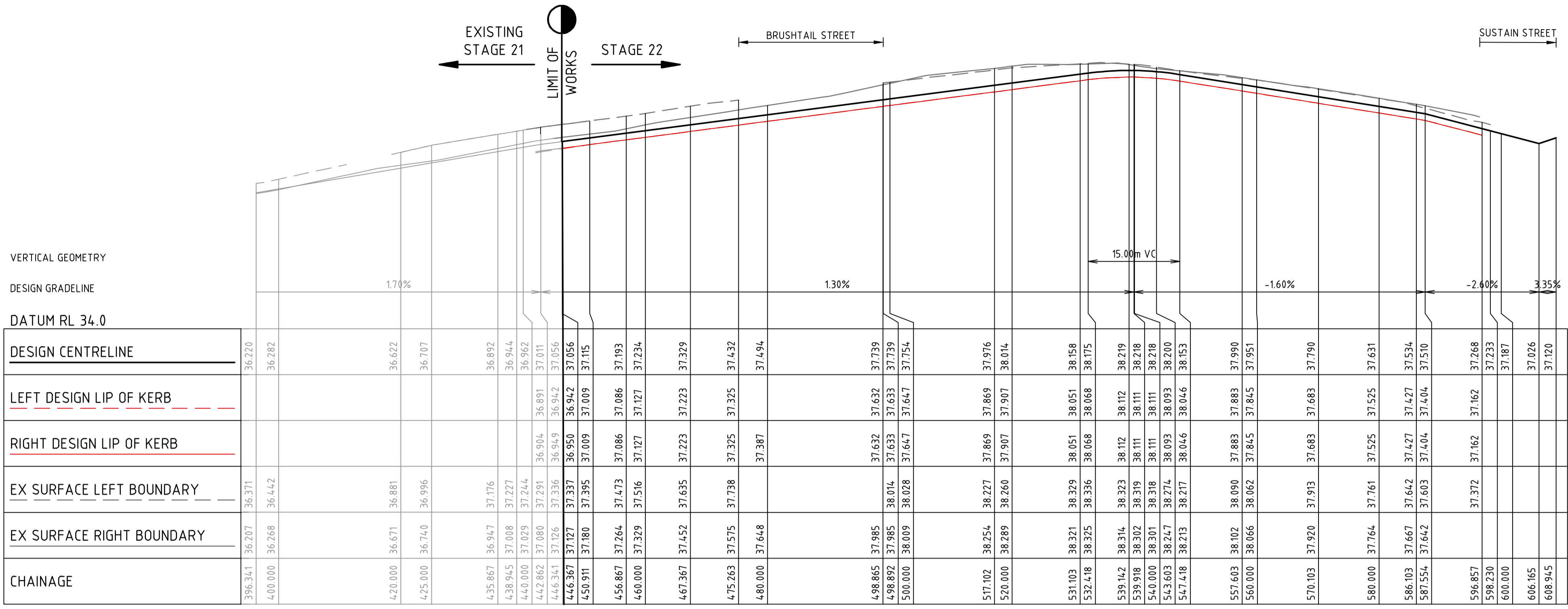
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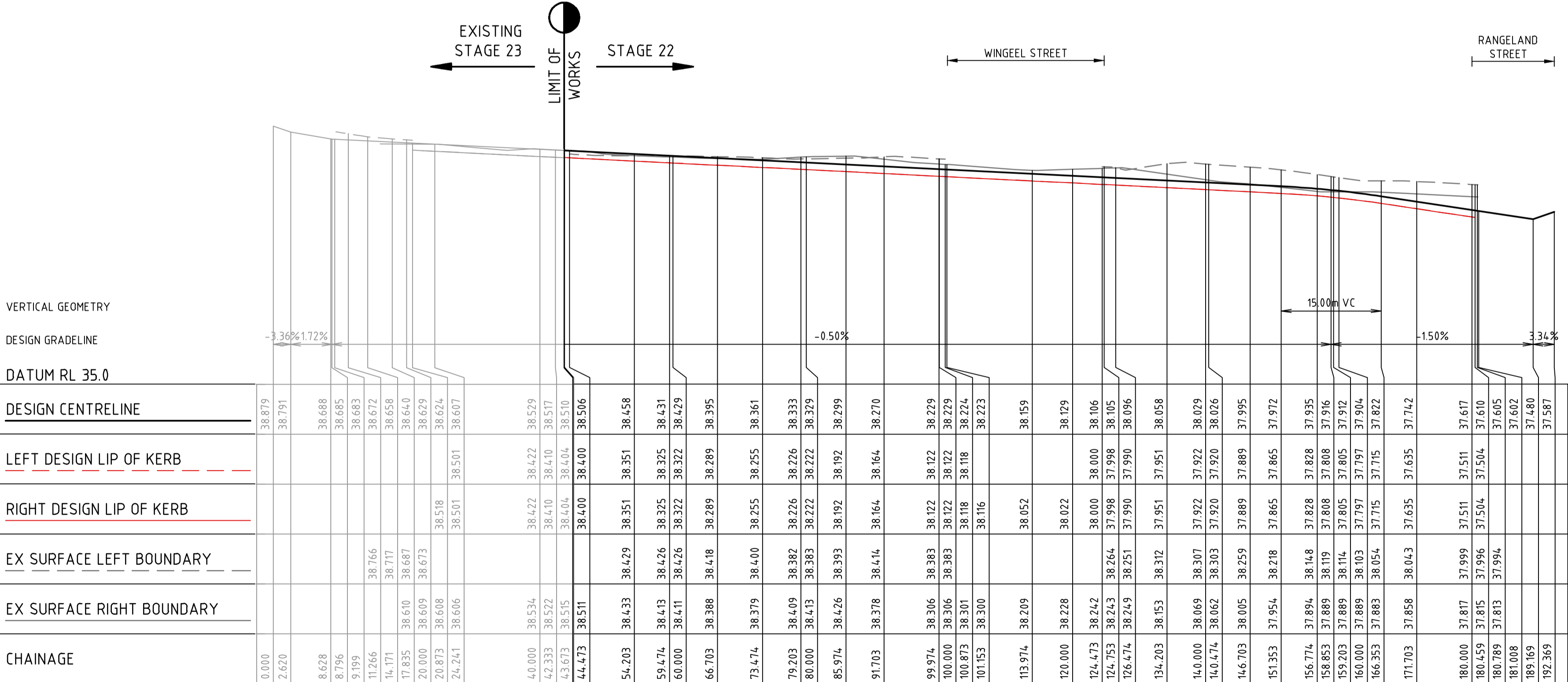
MAMBOURIN
STAGE 22
 ROAD AND DRAINAGE
 ROAD LAYOUT PLANS - SERVICES PLAN
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

PRELIMINARY Dwg No: 309509CR201 Rev: B

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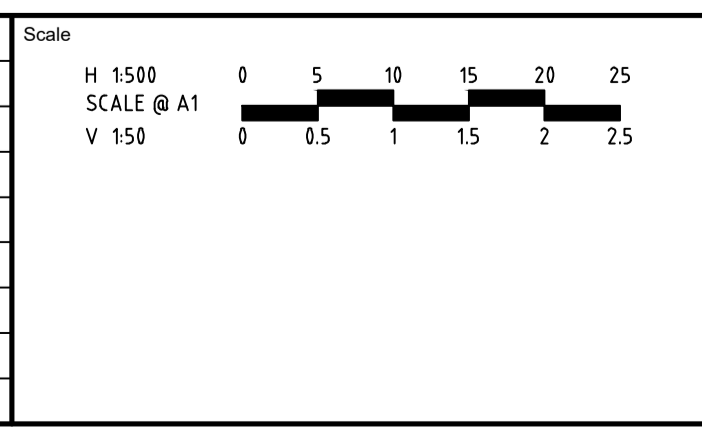


RANGELAND STREET



BRUSHTAIL STREET

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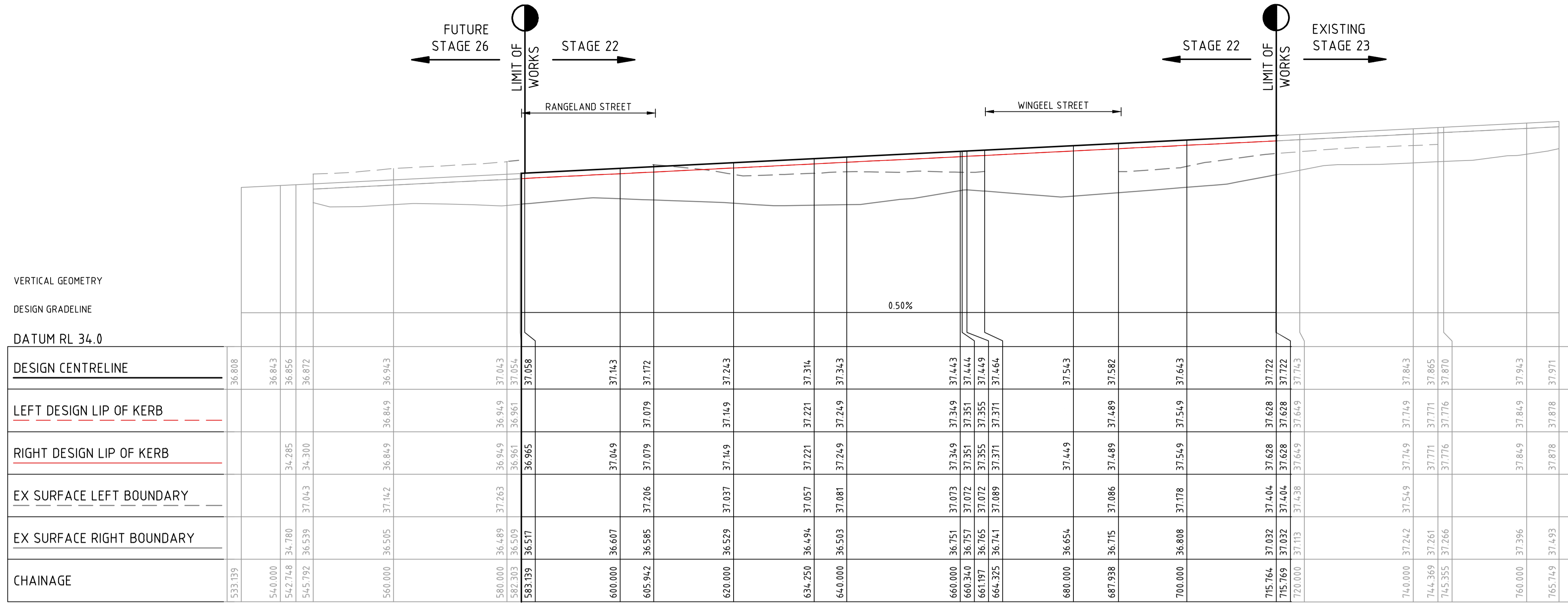


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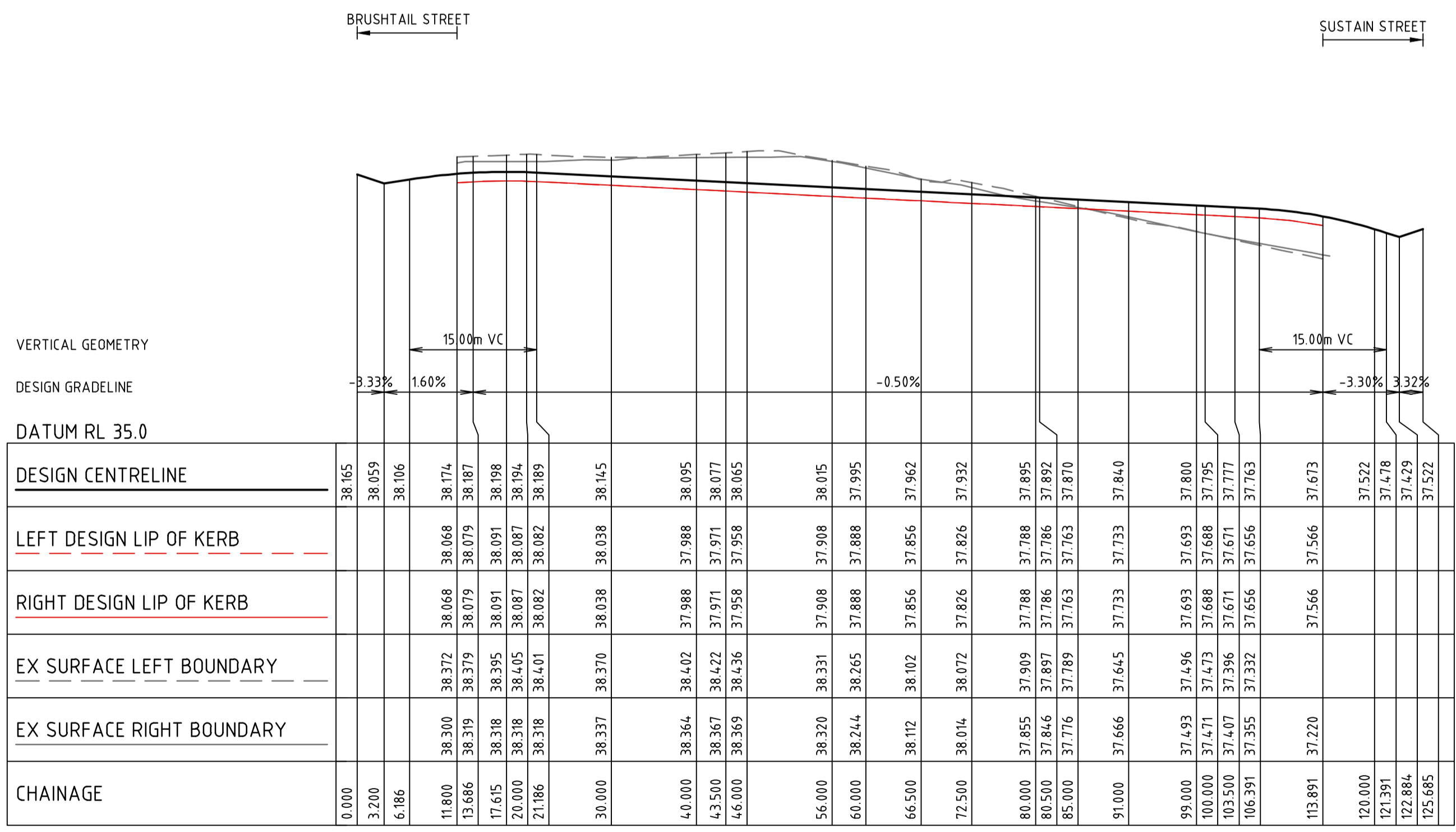
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MAMBOURIN
 STAGE 22
 ROAD AND DRAINAGE
 RANGELAND STREET & BRUSHTAIL STREET LONG SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

Drg No: 309509CR300 Rev: A
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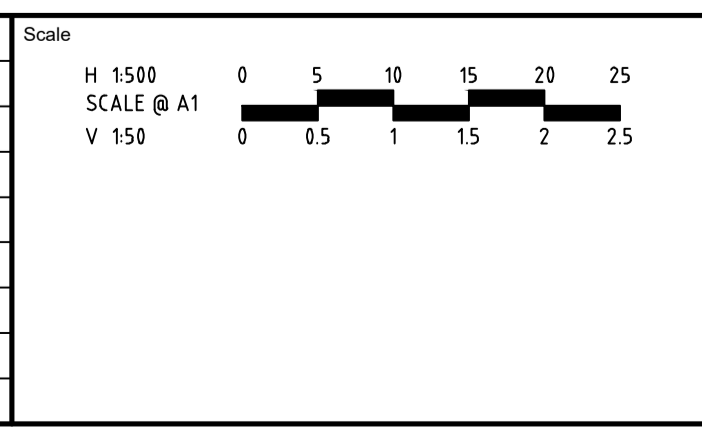
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MAMBOURIN

STAGE 22

 ROAD AND DRAINAGE

 SUSTAIN STREET & WINGEEL STREET LONG SECTIONS

 WYNDHAM CITY COUNCIL

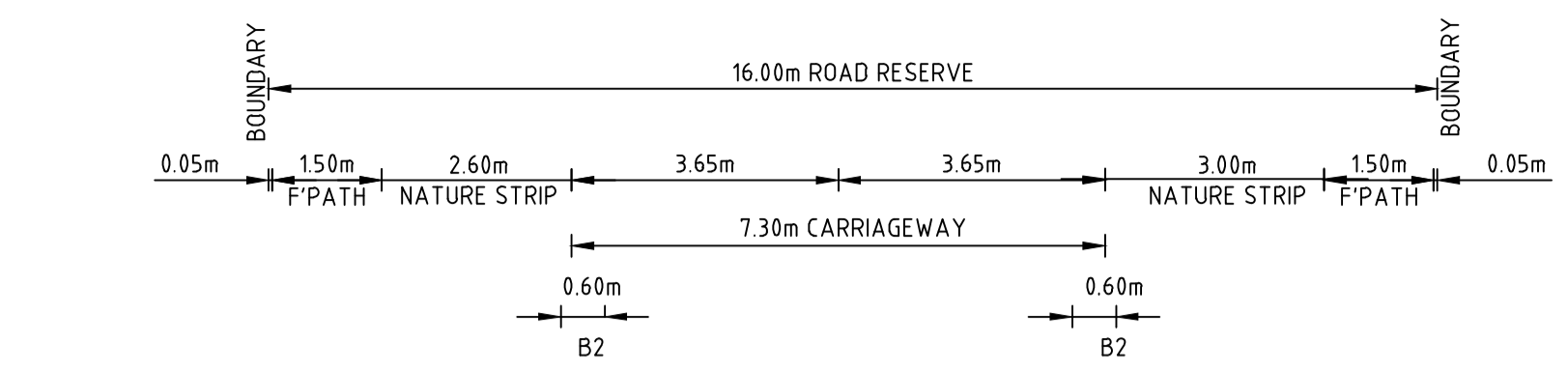
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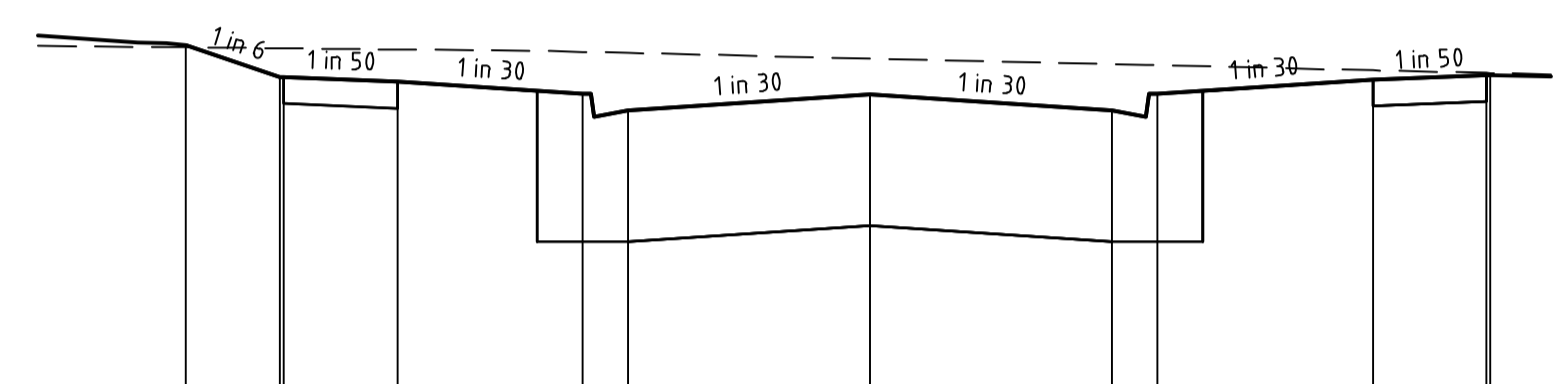
FILLING NOTE
 ALL FILLING WITHIN ROAD RESERVES IS TO BE UNDERTAKEN USING LEVEL 1 SUPERVISION AND BE COMPLETED IN ACCORDANCE WITH AS 3798-2007 AND TO THE SATISFACTION OF COUNCIL AND THE SUPERINTENDENT. FILL AREAS ARE TO BE STRIPPED OF TOPSOIL, FILLED AND REPLACED WITH TOPSOIL (WHERE REQUIRED) TO OBTAIN THE FINAL LEVELS SHOWN ON THE DRAWINGS.

 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



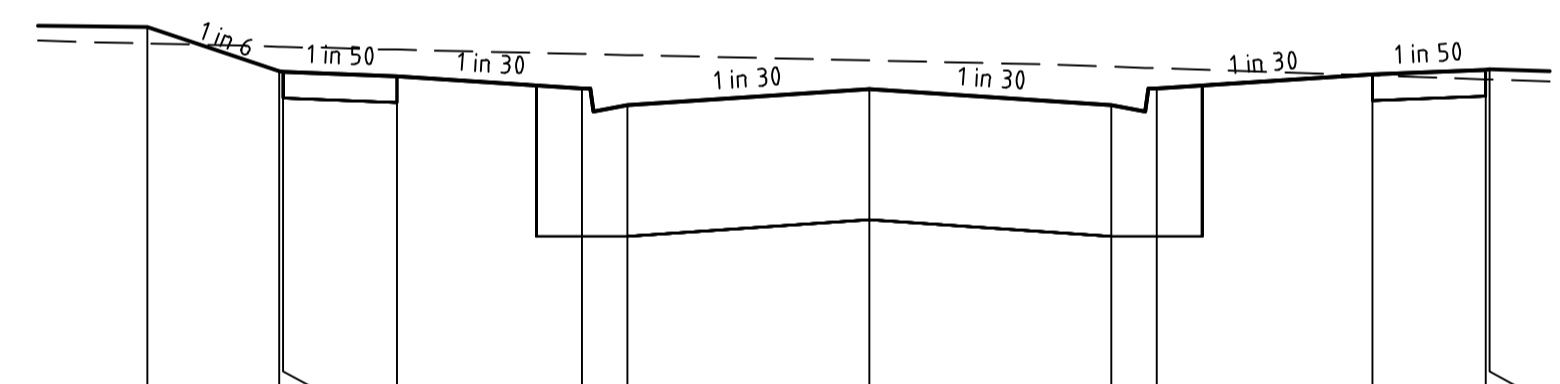
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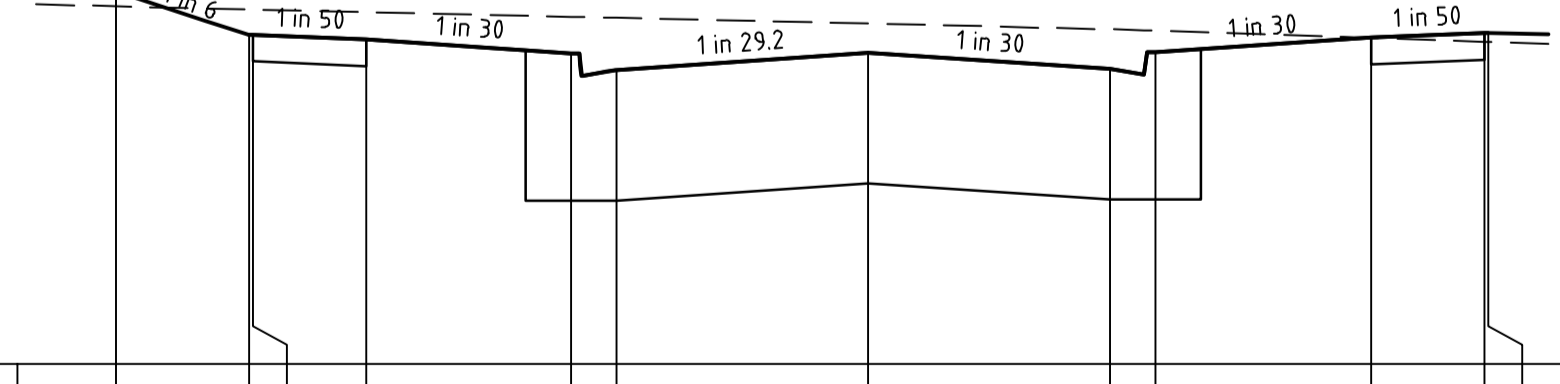
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RANGELAND STREET CH 475.26



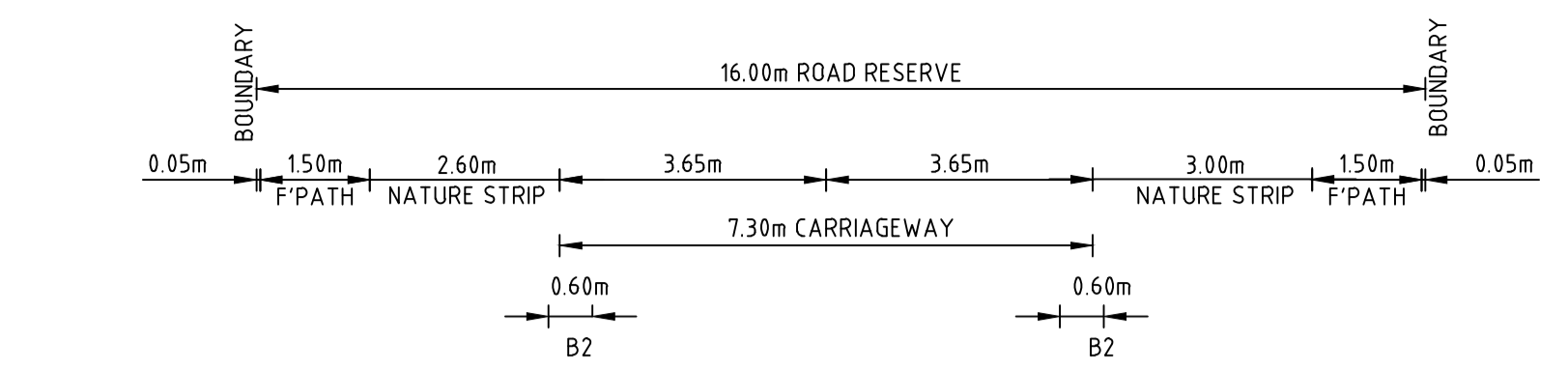
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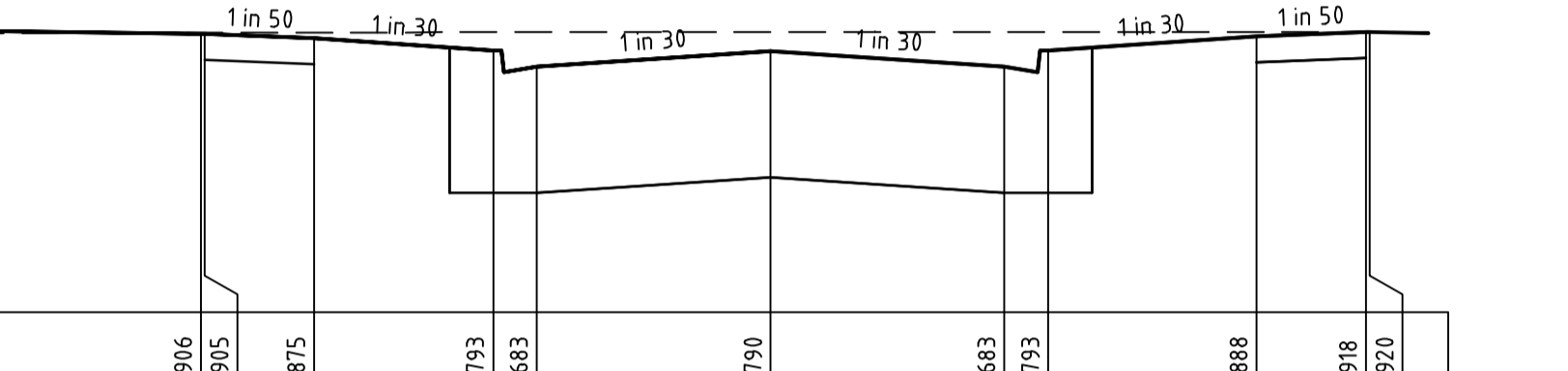
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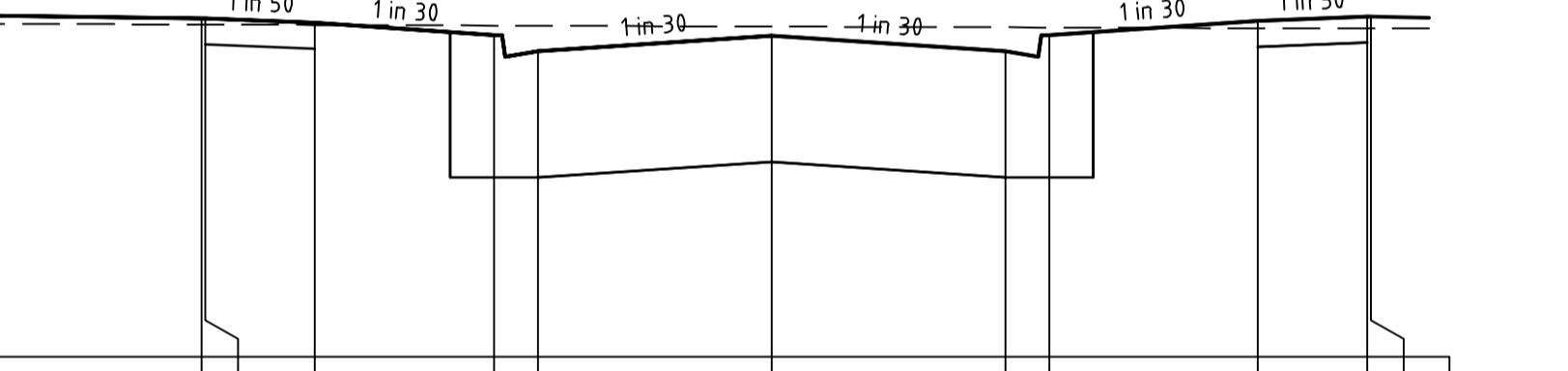
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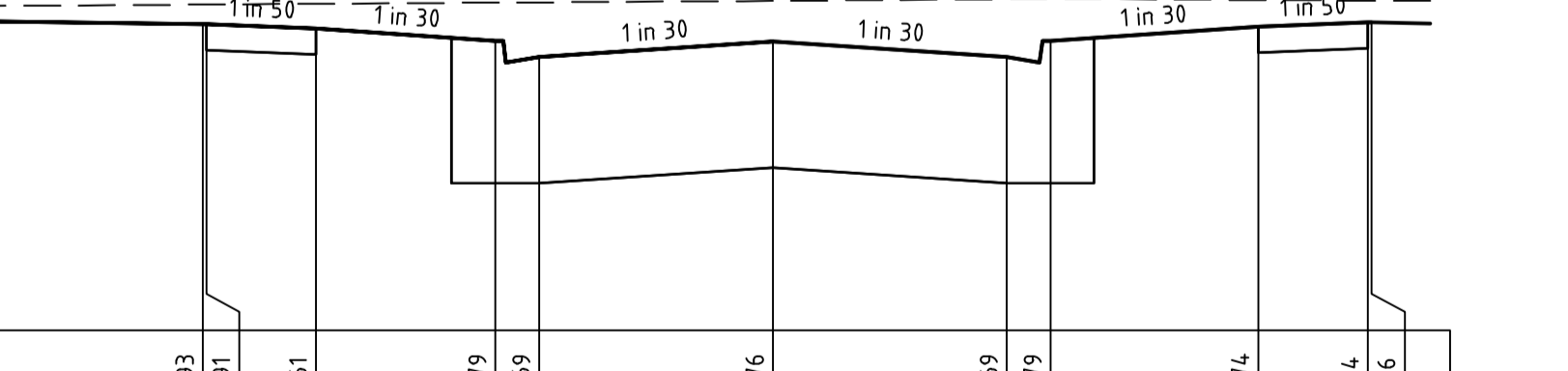
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RANGELAND STREET CH 570.10



DATUM R.L.37.0	
DESIGN SURFACE LEVEL	
EXISTING SURFACE LEVEL	
OFFSET	

RANGELAND STREET CH 543.60




DATUM R.L.36.0	
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RANGELAND STREET CH 517.10


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A	PRELIMINARY ISSUE	M.I.R	21/12/22
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 V 1:50


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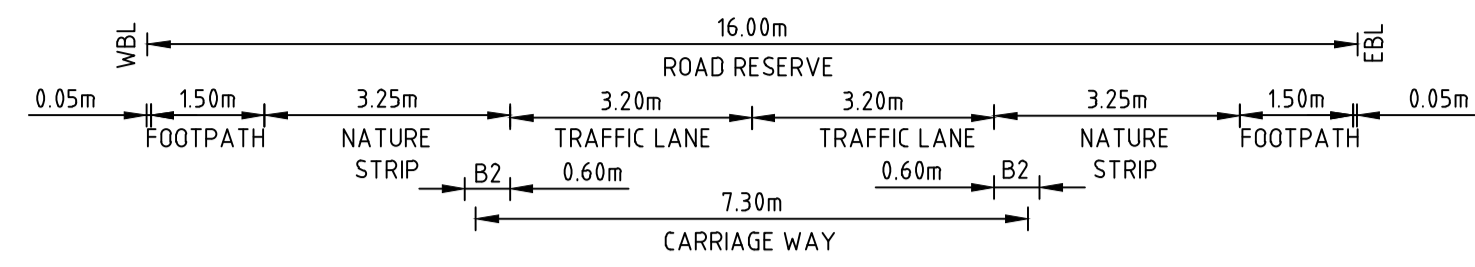

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MAMBOURIN
STAGE 22
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - RANGELAND STREET
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD
PRELIMINARY Drg No 309509CR400 Rev A

FILLING NOTE
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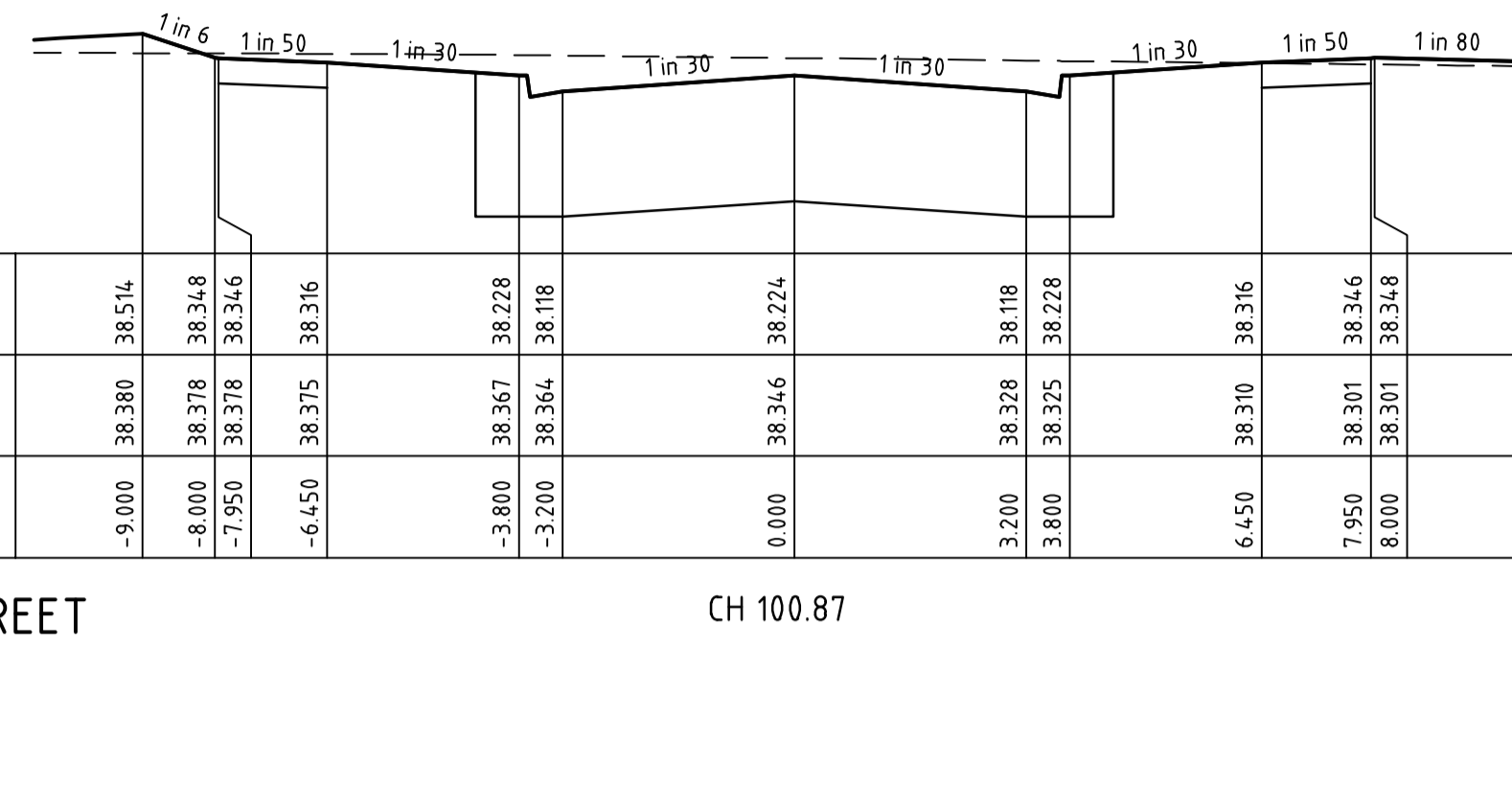
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



DATUM R.L. 37.0

DESIGN SURFACE LEVEL		38.514	38.348	38.346	38.316	38.228	38.118	38.224	38.316	38.346	38.348	
EXISTING SURFACE LEVEL		38.380	38.378	38.378	38.316	38.367	38.228	38.346	38.310	38.301	38.348	
OFFSET		-9.000	-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	8.000

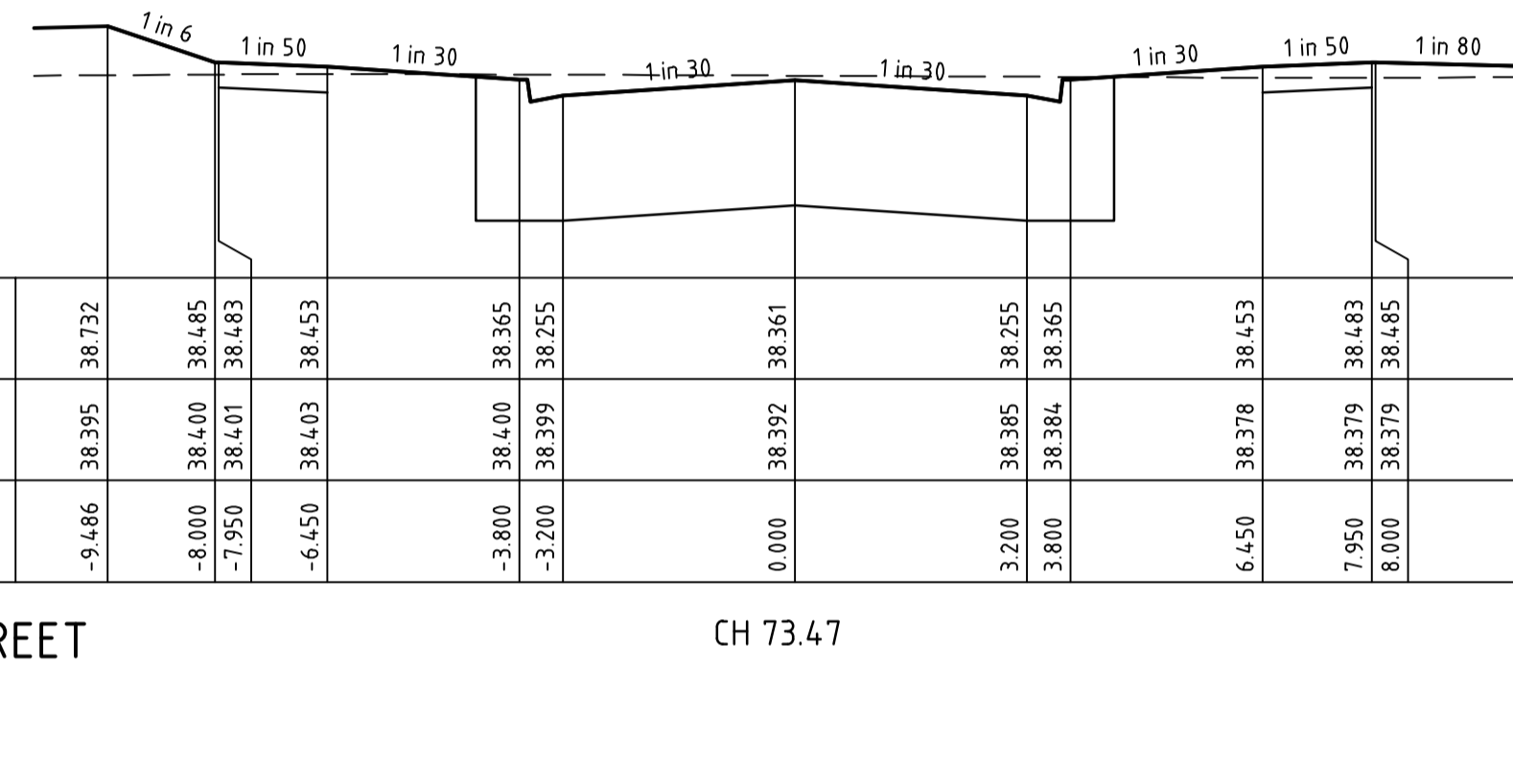
BRUSHTAIL STREET CH 100.87



DATUM R.L. 37.0

DESIGN SURFACE LEVEL		38.732	38.485	38.483	38.453	38.365	38.255	38.361	38.453	38.483	38.485	
EXISTING SURFACE LEVEL		38.395	38.400	38.401	38.403	38.400	38.399	38.392	38.385	38.379	38.485	
OFFSET		-9.486	-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	8.000

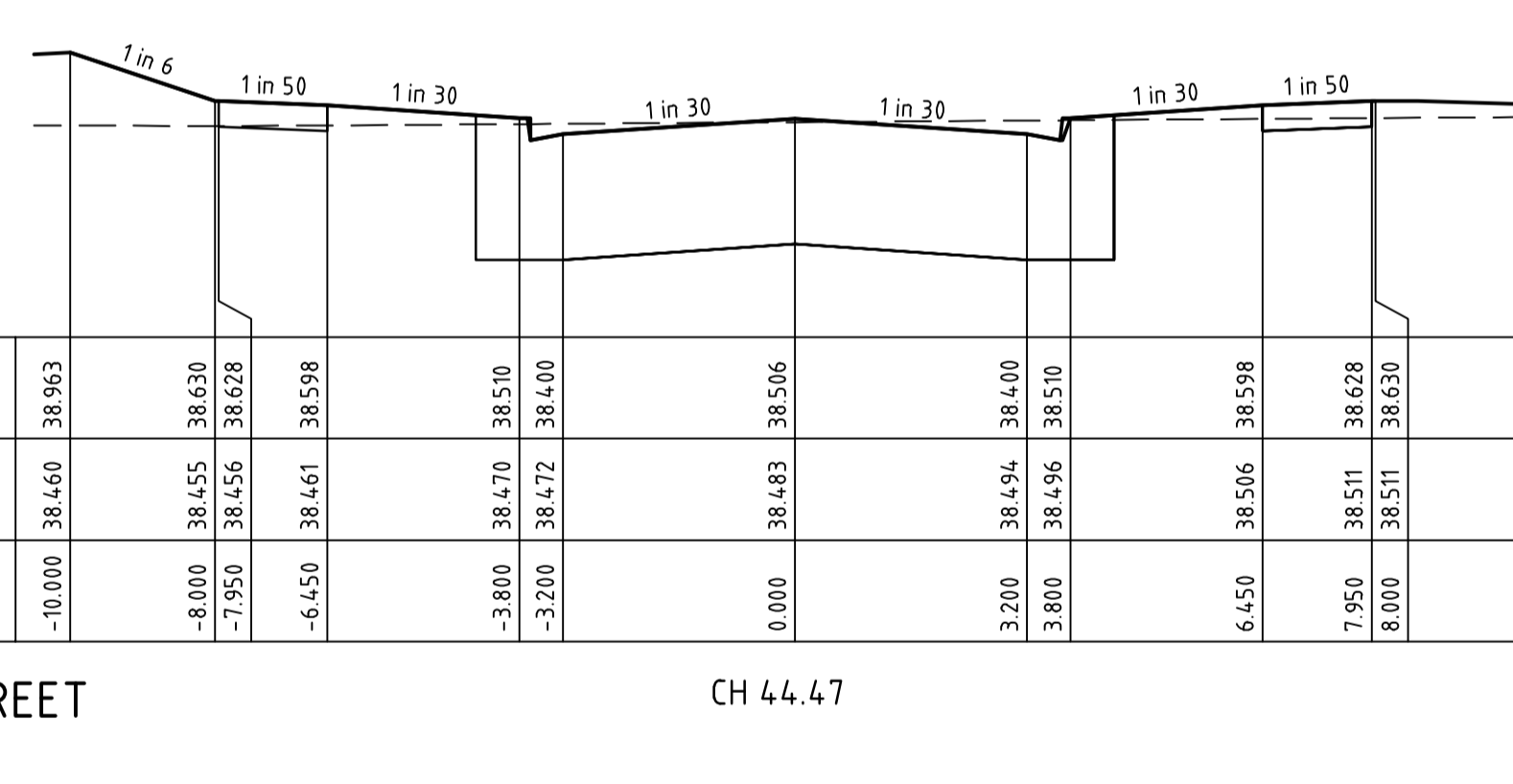
BRUSHTAIL STREET CH 73.47



DATUM R.L. 37.0

DESIGN SURFACE LEVEL		38.963	38.630	38.628	38.598	38.510	38.400	38.506	38.400	38.628	38.630	
EXISTING SURFACE LEVEL		38.460	38.455	38.456	38.461	38.470	38.472	38.483	38.494	38.511	38.628	
OFFSET		-10.000	-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	8.000

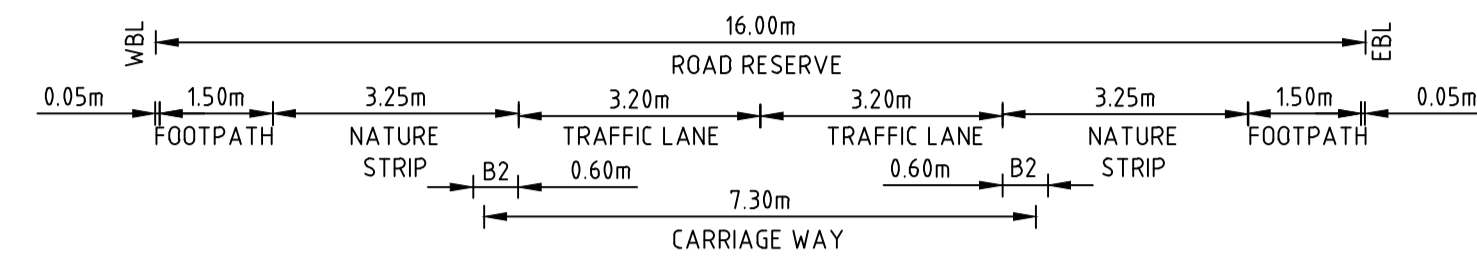
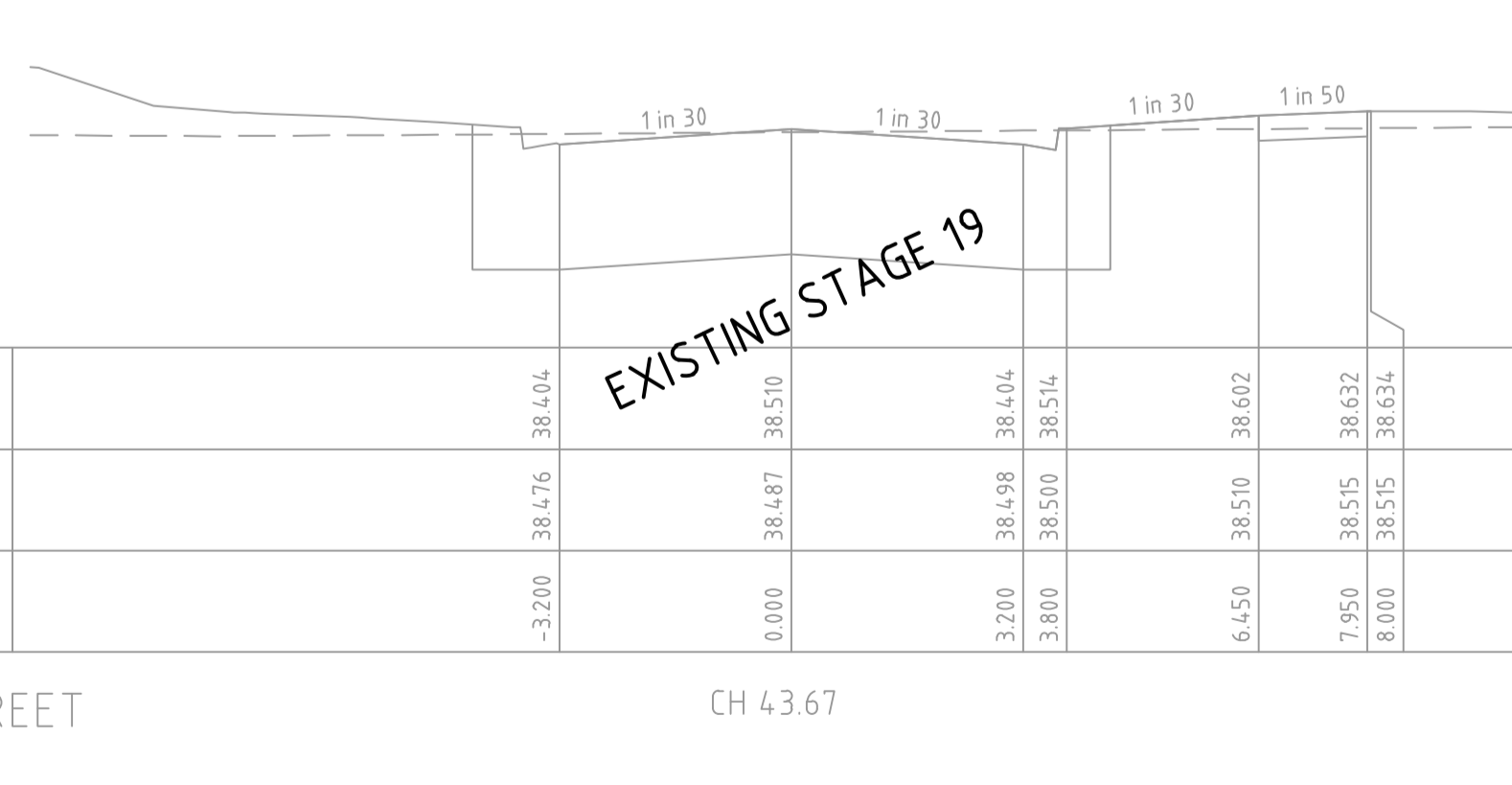
BRUSHTAIL STREET CH 44.47



DATUM R.L. 37.0

DESIGN SURFACE LEVEL		38.404	38.510	38.404	38.514	38.602	38.632	38.634				
EXISTING SURFACE LEVEL		38.476	38.487	38.498	38.500	38.510	38.515	38.634				
OFFSET		-3.200	0.000	0.000	0.000	0.000	0.000	0.000				

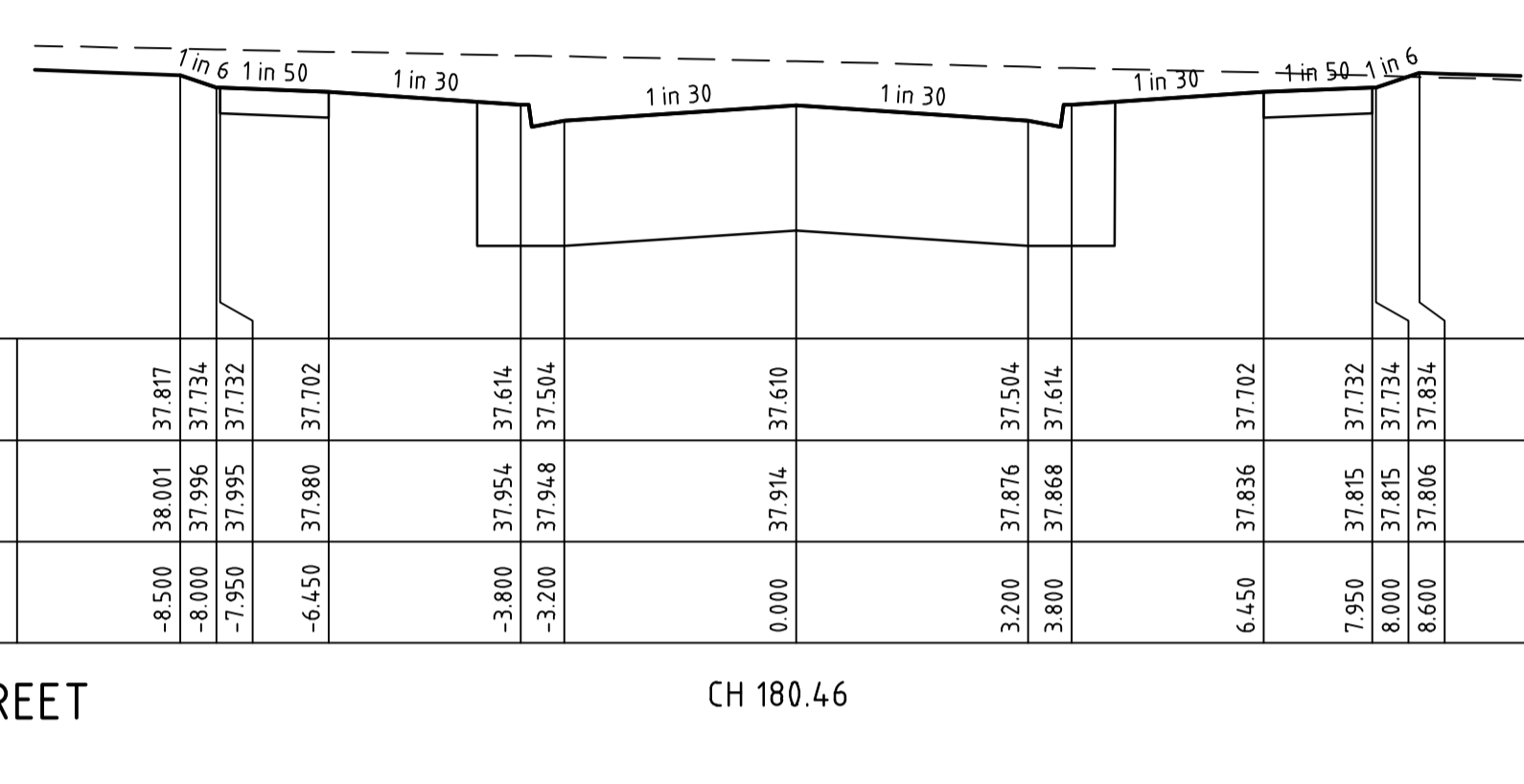
BRUSHTAIL STREET CH 43.67



DATUM R.L. 36.0

DESIGN SURFACE LEVEL		37.817	37.734	37.732	37.702	37.614	37.504	37.610	37.504	37.614	37.702	37.732	37.734	
EXISTING SURFACE LEVEL		38.001	37.996	37.995	37.980	37.954	37.948	37.914	37.816	37.868	37.836	37.815	37.734	37.834
OFFSET		-8.500	-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	7.950	8.000	8.600

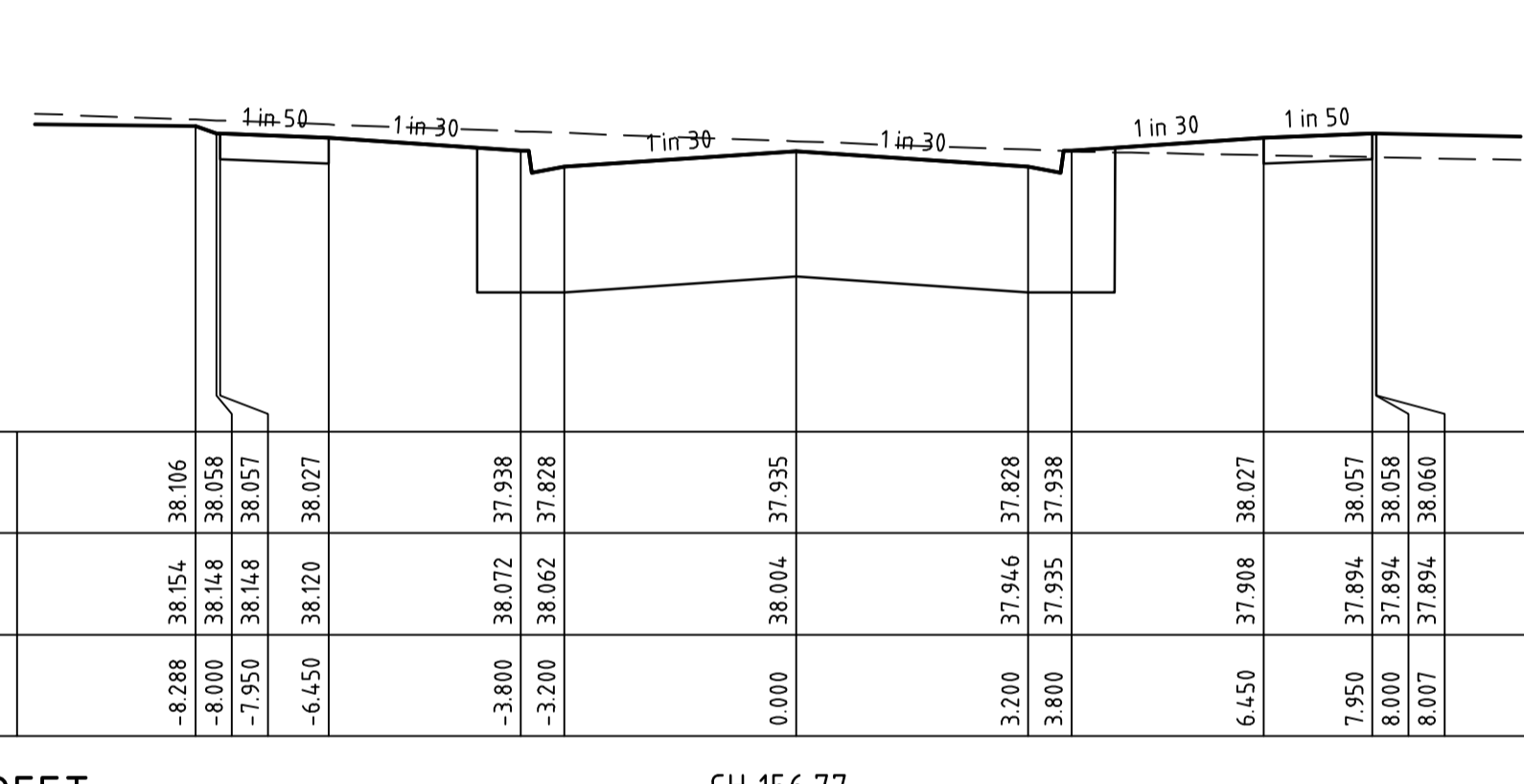
BRUSHTAIL STREET CH 180.46



DATUM R.L. 36.0

DESIGN SURFACE LEVEL		38.106	38.058	38.057	38.027	37.938	37.828	37.935	37.828	37.938	38.027	38.057	38.058	
EXISTING SURFACE LEVEL		38.154	38.148	38.148	38.120	38.072	38.062	38.004	37.946	37.935	37.908	37.894	38.058	38.060
OFFSET		-8.288	-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	7.950	8.000	8.007

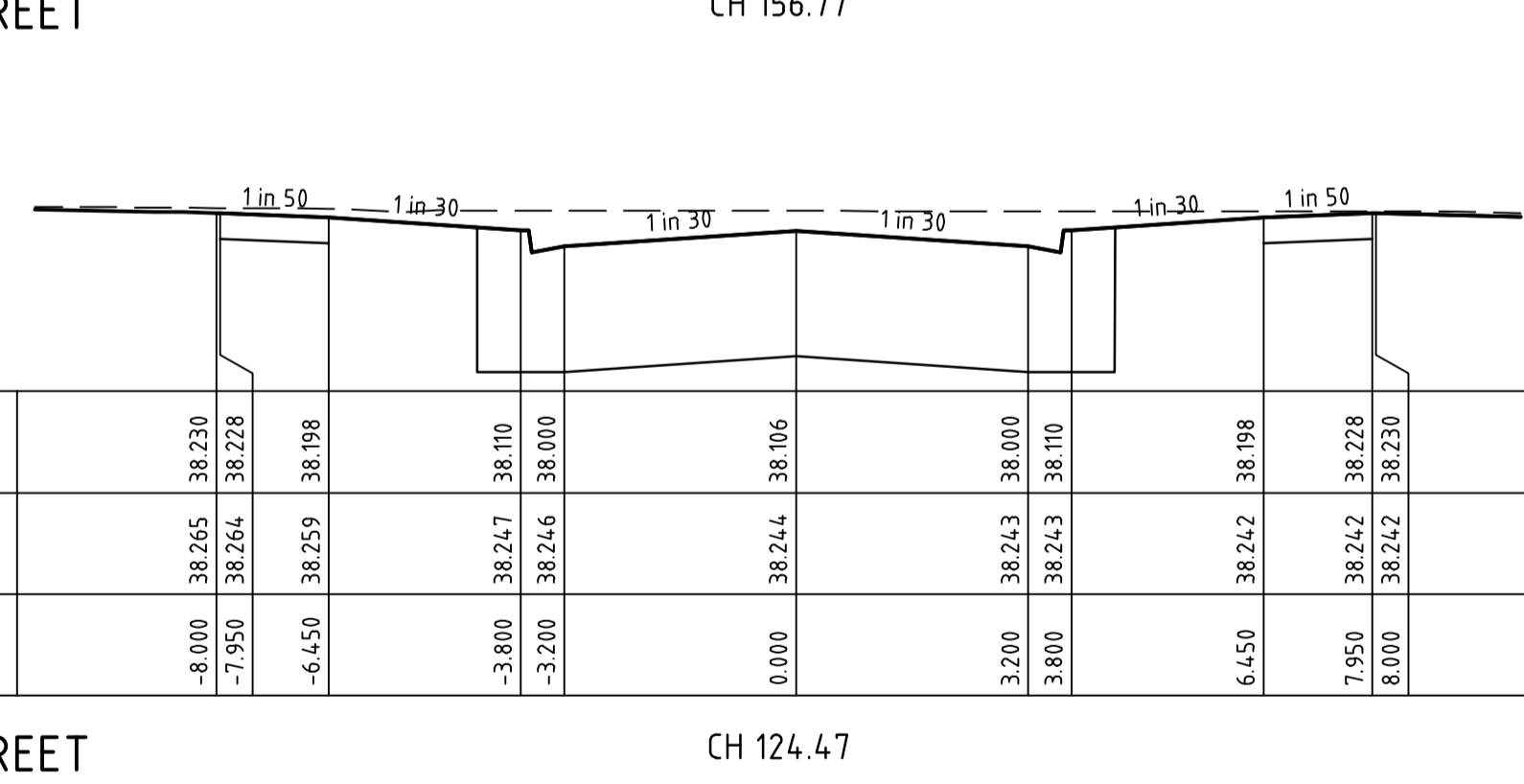
BRUSHTAIL STREET CH 156.77



DATUM R.L. 37.0

DESIGN SURFACE LEVEL		38.230	38.228	38.198	38.110	38.000	38.106	38.000	38.110	38.198	38.228	38.230	
EXISTING SURFACE LEVEL		38.265	38.264	38.259	38.247	38.246	38.244	38.243	38.243	38.242	38.228	38.230	
OFFSET		-8.000	-7.950	-6.450	-3.800	-3.200	0.000	3.200	3.800	6.450	7.950	8.000	

BRUSHTAIL STREET CH 124.47



file name: 309509CR402.dwg, layout name: CR402, plotted by: Kitchin, E. J., date: 21/12/22, plot date: 21/12/22, 10:36 AM, Sheet 8 of 16 Sheets

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Rev	A PRELIMINARY ISSUE	M.I.R. 21/12/22
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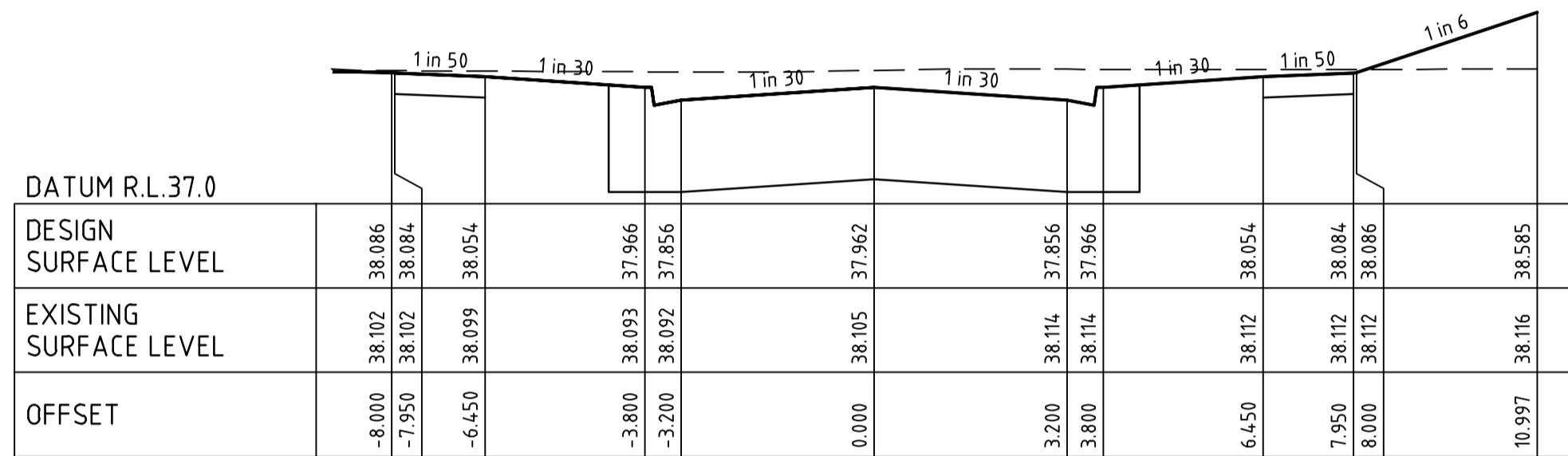
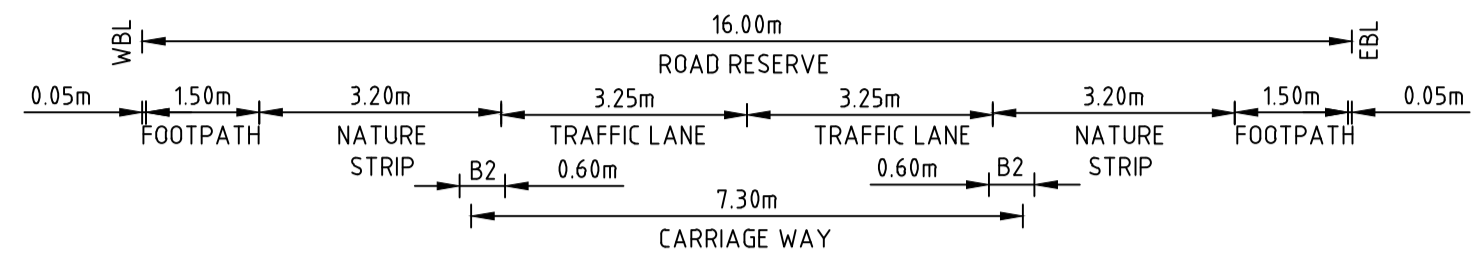
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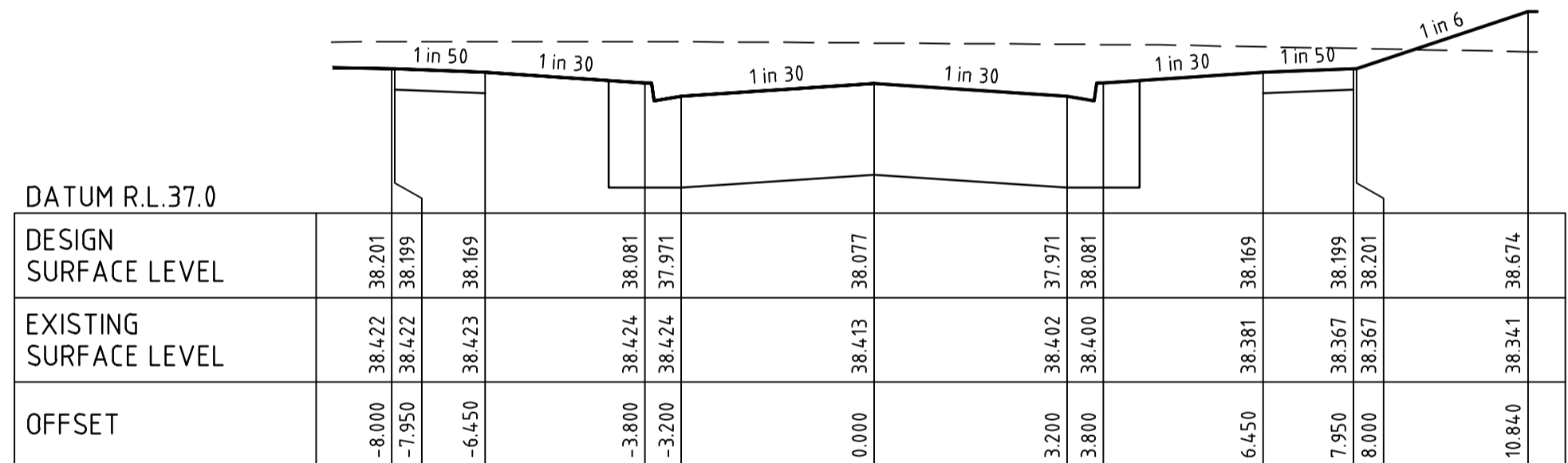
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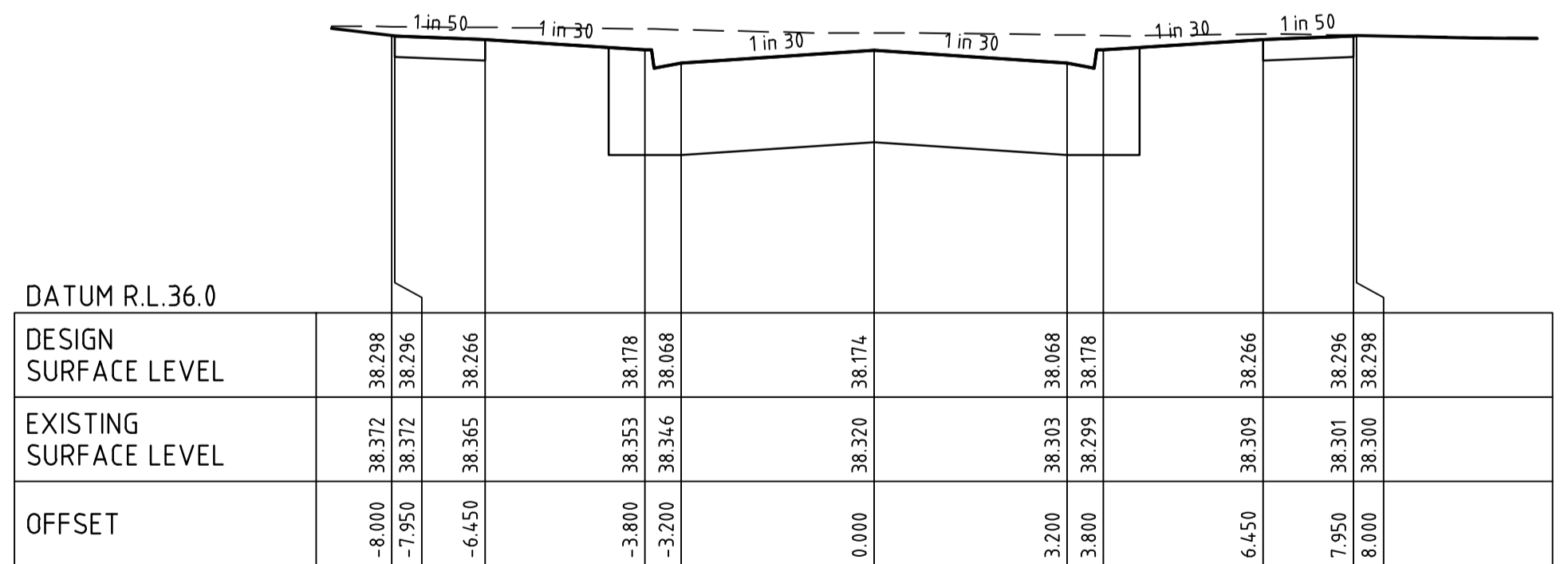
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



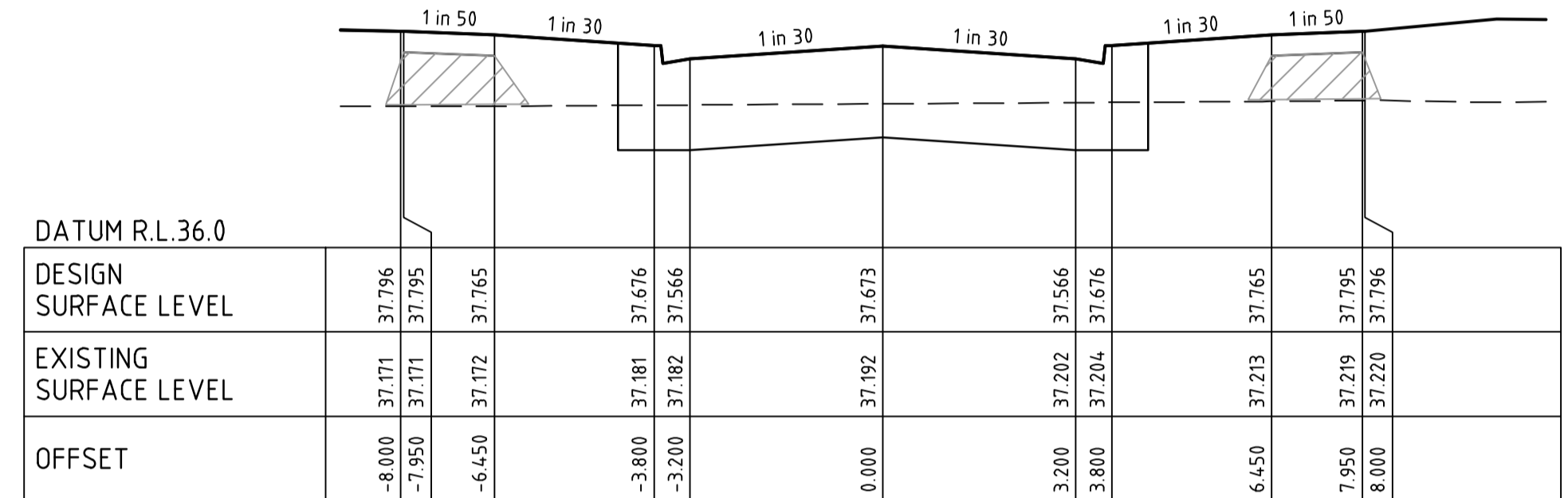
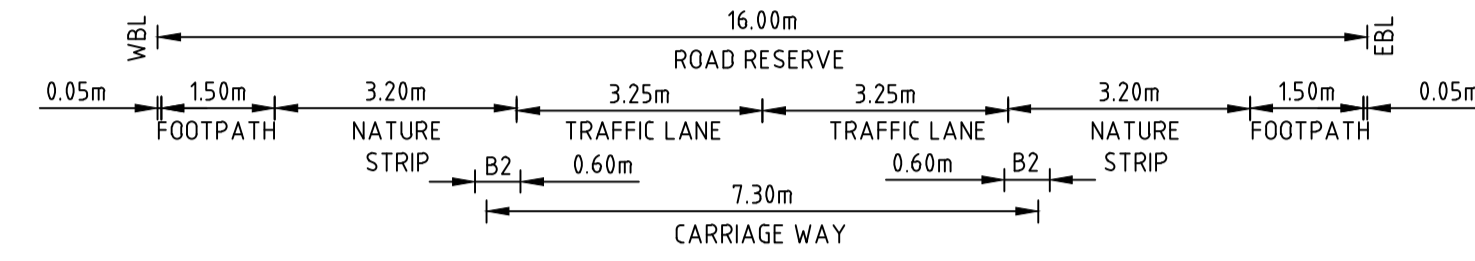
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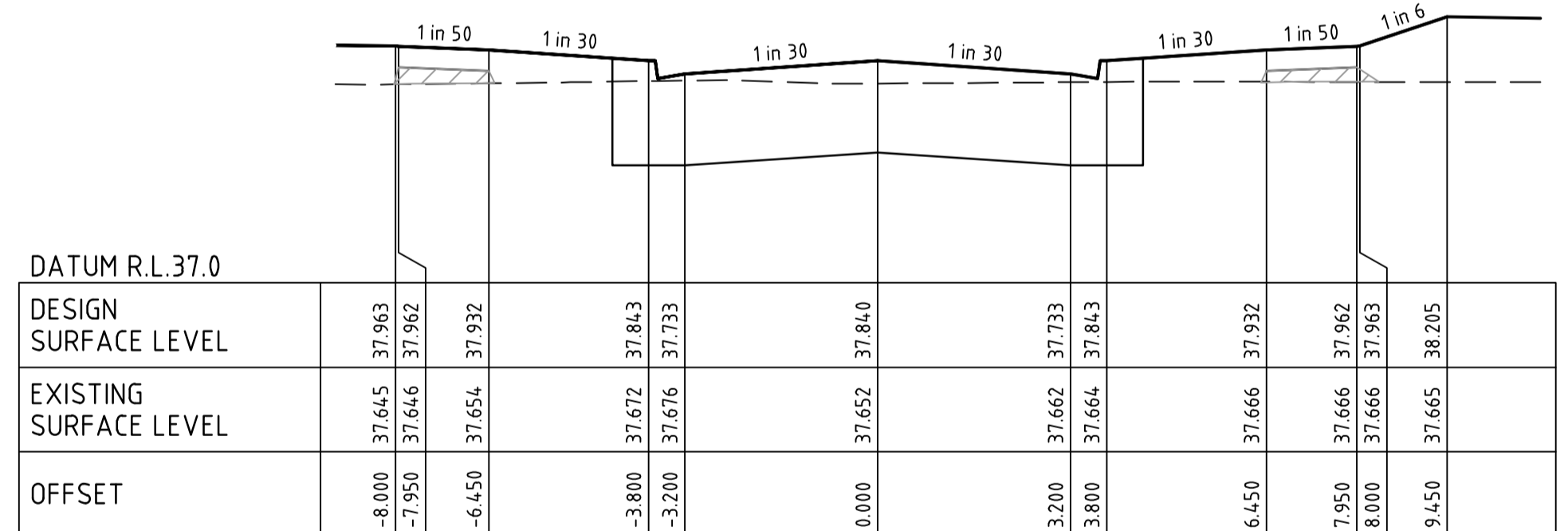
WINGEEL STREET CH 43.50



WINGEEL STREET CH 11.80

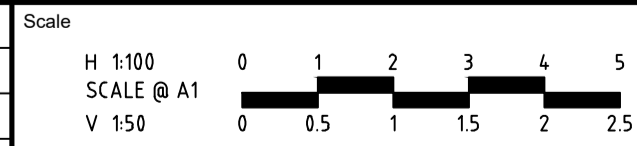


WINGEEL STREET CH 113.89



WINGEEL STREET CH 91.00

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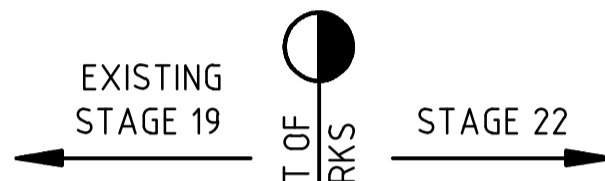
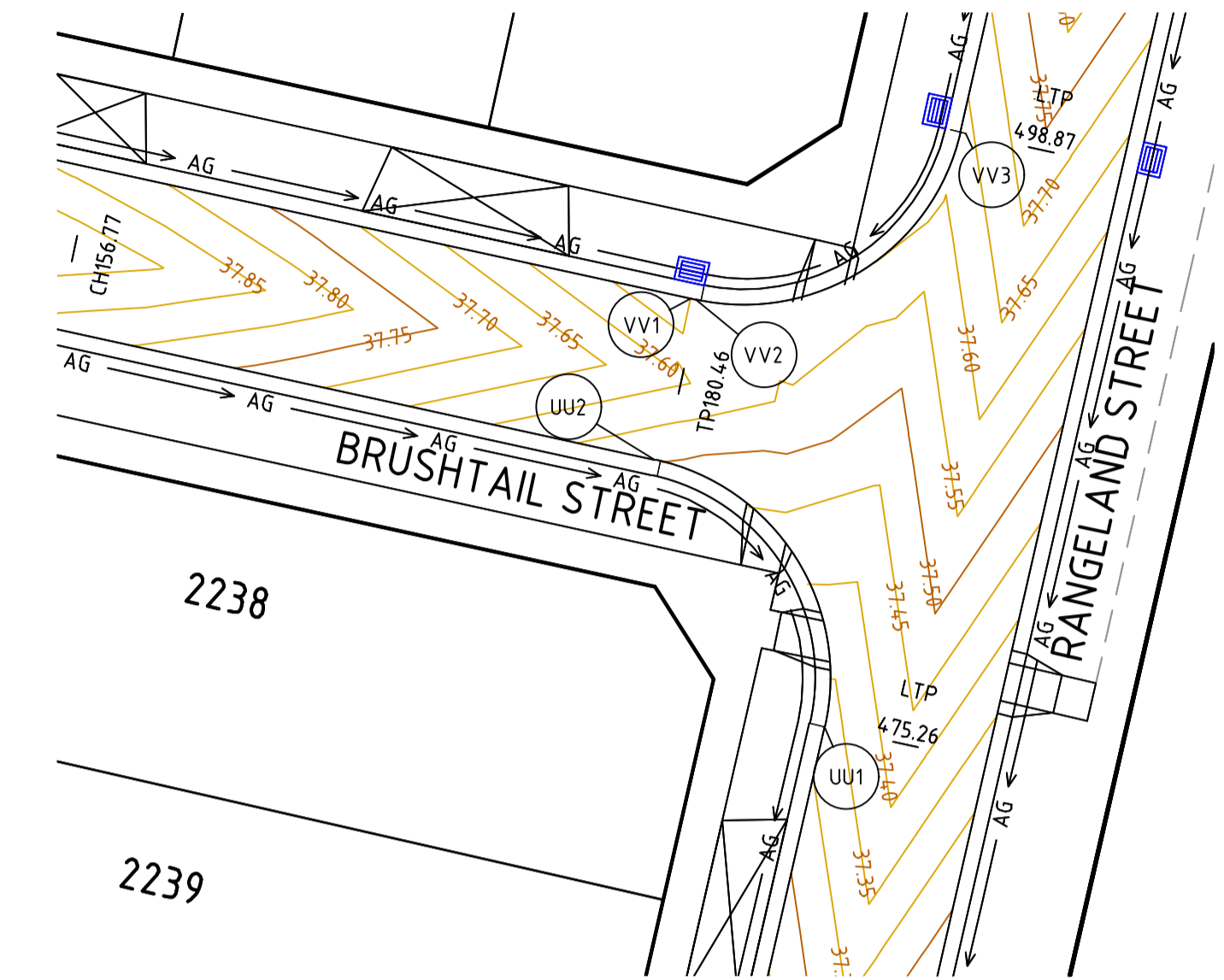
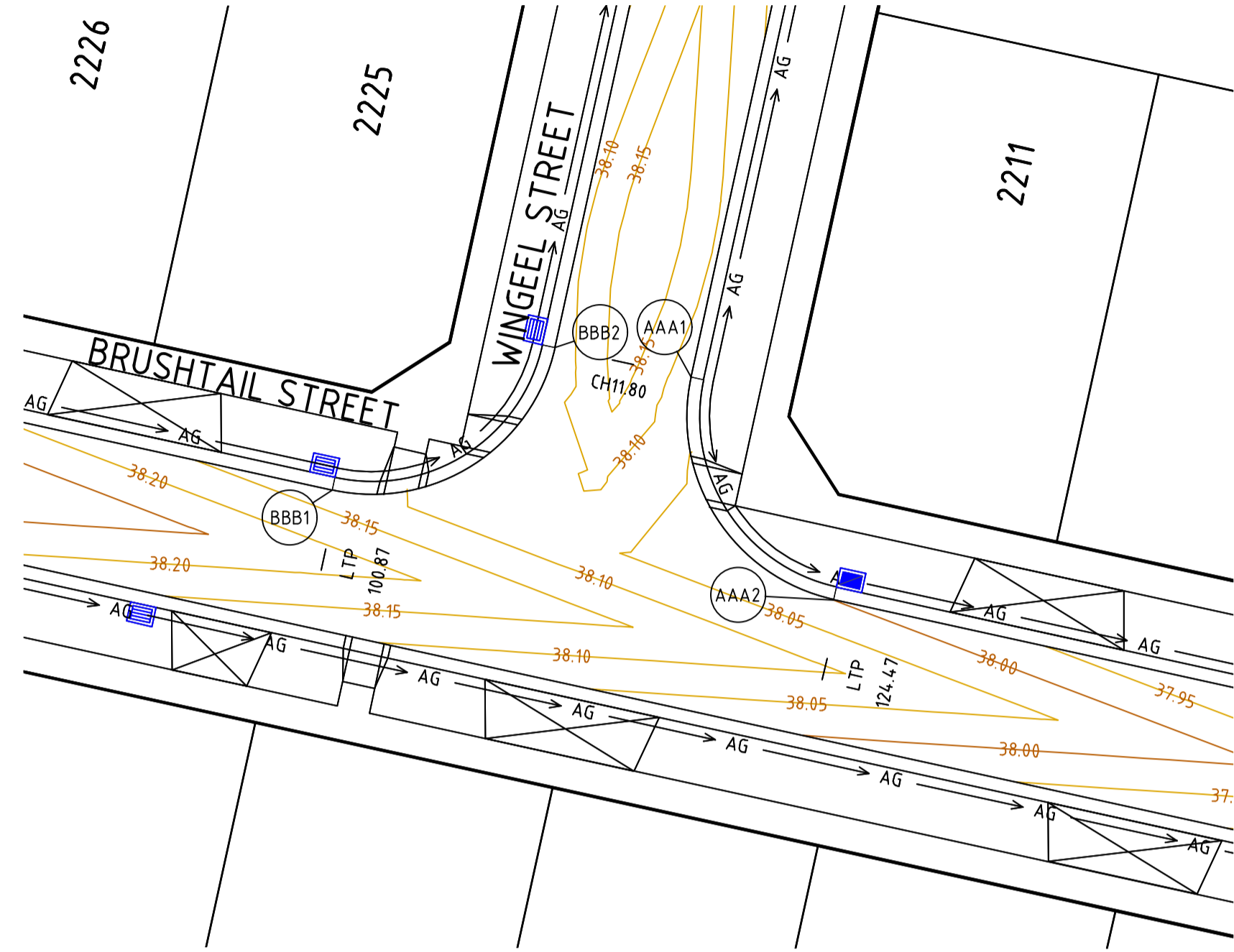
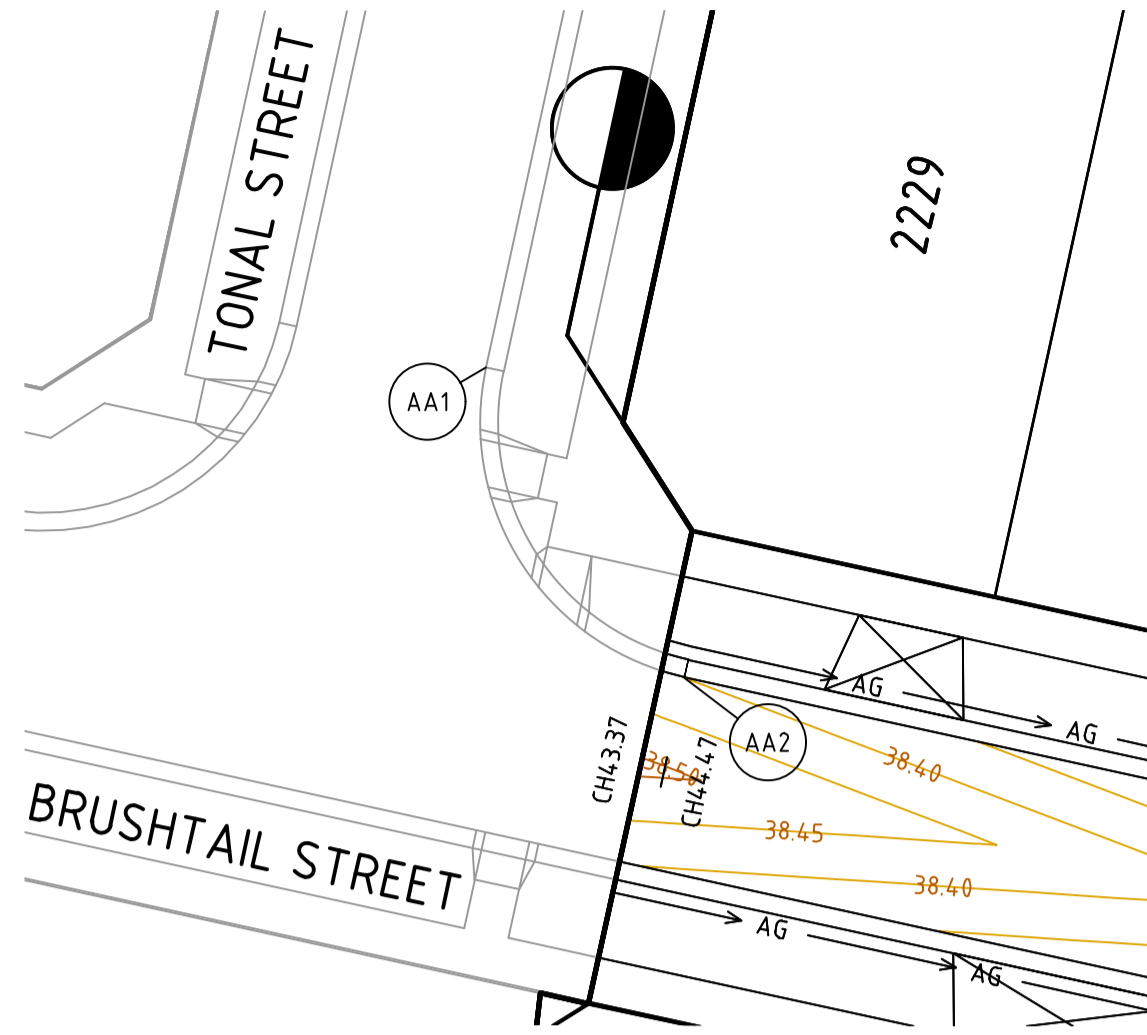


Checked
 Date

MAMBOURIN STAGE 22
 ROAD AND DRAINAGE
 ROAD CROSS SECTIONS - WINGEEL STREET
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD

PRELIMINARY Drg No **309509CR403** Rev **A**

Rev	Description	Approved	Date
A	PRELIMINARY ISSUE	MIR	21/12/22
	Amendments		



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 37.0

DESIGN LEVEL	38.591	38.411	38.400
CHAINAGE	0.000	12.708	13.509

KERB AA

ALIGNMENT AA

POINT NO	EASTING	NORTHING	RL
AA1	289188.857	5803976.698	38.591
1/4	289188.793	5803973.343	38.543
1/2	289190.018	5803970.219	38.495
3/4	289192.346	5803967.802	38.448
AA2	289195.421	5803966.460	38.400

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
AA1-AA2	8.600	13.509	12.162	2.519	-0.655

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 37.0

DESIGN LEVEL	38.118	38.056	38.061	38.068
CHAINAGE	0.000	12.109	13.509	13.509

KERB BBB

ALIGNMENT BBB

POINT NO	EASTING	NORTHING	RL
BBB1	289250.519	5803954.411	38.118
1/4	289253.874	5803954.347	38.100
1/2	289256.998	5803955.573	38.083
3/4	289259.415	5803957.900	38.066
BBB2	289260.758	5803960.975	38.068

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
BBB1-BBB2	8.600	13.509	12.162	2.519	-0.655

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 37.0

DESIGN LEVEL	38.068	38.004	38.000
CHAINAGE	0.000	12.708	13.509

KERB AAA

ALIGNMENT AAA

POINT NO	EASTING	NORTHING	RL
AAA1	289267.010	5803959.608	38.068
1/4	289266.946	5803956.253	38.051
1/2	289268.171	5803953.129	38.034
3/4	289270.499	5803950.712	38.017
AAA2	289273.574	5803949.369	38.000

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
AAA1-AAA2	8.600	13.509	12.162	2.519	-0.655

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

DESIGN LEVEL	37.325	37.492	37.504
CHAINAGE	0.000	12.708	13.588

KERB UU

ALIGNMENT UU

POINT NO	EASTING	NORTHING	RL
UU1	289333.447	5803920.841	37.325
1/4	289333.539	5803924.214	37.370
1/2	289332.324	5803927.364	37.415
3/4	289329.992	5803929.803	37.459
UU2	289326.900	5803931.157	37.504

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
UU1-UU2	8.600	13.588	12.218	2.547	-0.662

VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 36.0

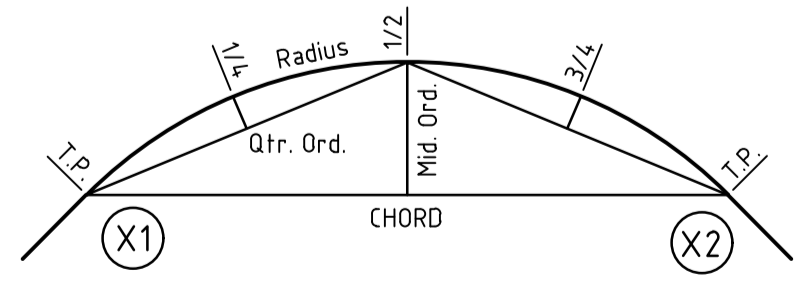
DESIGN LEVEL	37.504	37.506	37.623	37.632
CHAINAGE	0.000	0.219	12.708	13.648

KERB VV

ALIGNMENT VV

POINT NO	EASTING	NORTHING	RL
VV1	289328.268	5803937.409	37.504
VV2	289328.481	5803937.363	37.506
1/4	289331.816	5803937.296	37.537
1/2	289334.926	5803938.503	37.569
3/4	289337.343	5803940.803	37.601
VV3	289338.702	5803943.849	37.632

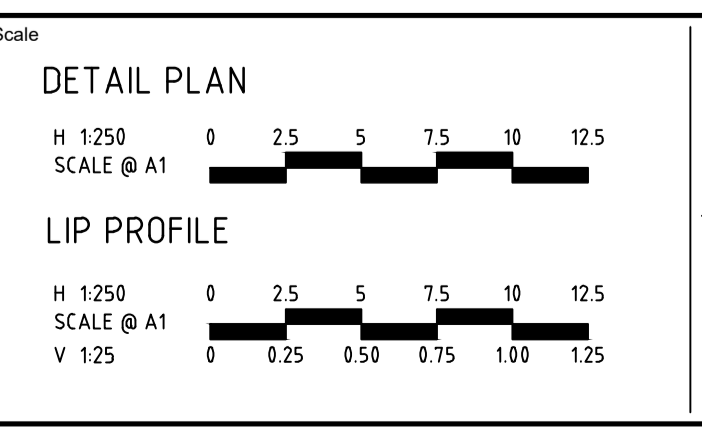
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VV2-VV3	8.600	13.429	12.106	2.491	-0.647



KERB RETURN SETOUT DETAIL

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Rev	Description	M.I.R.	Date
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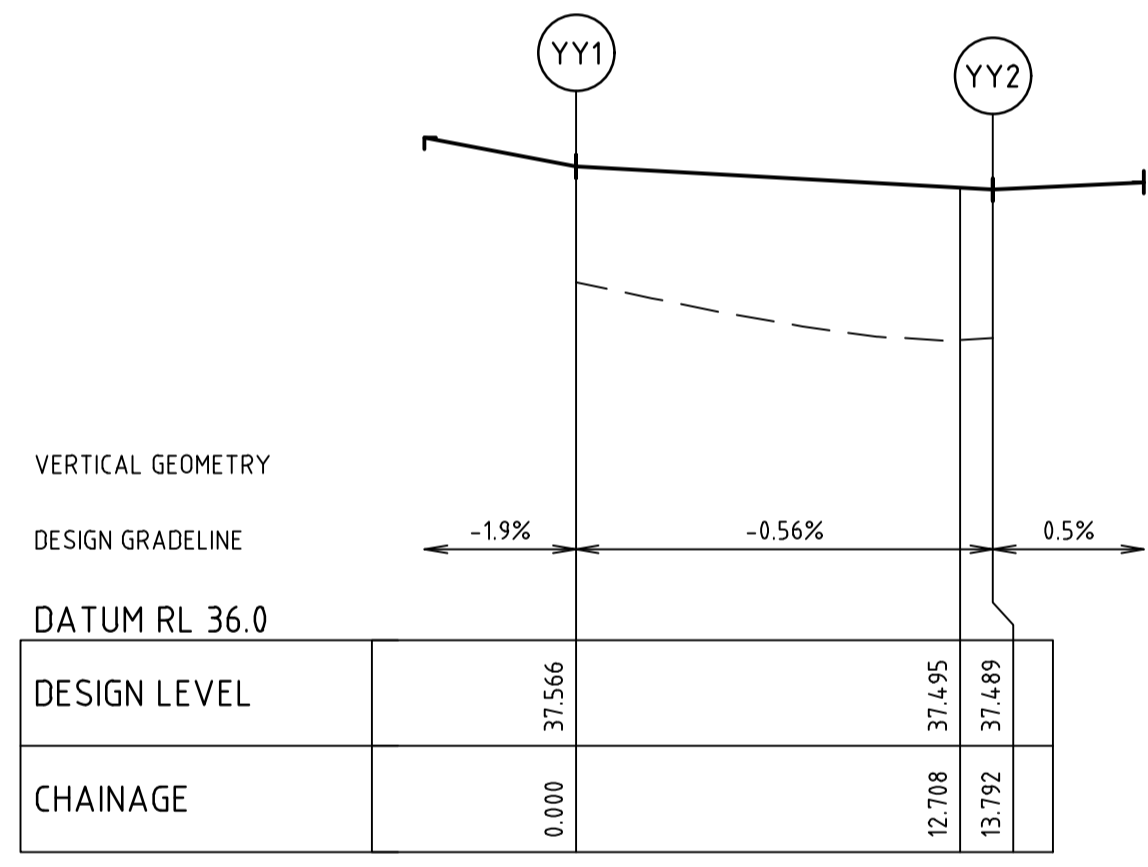
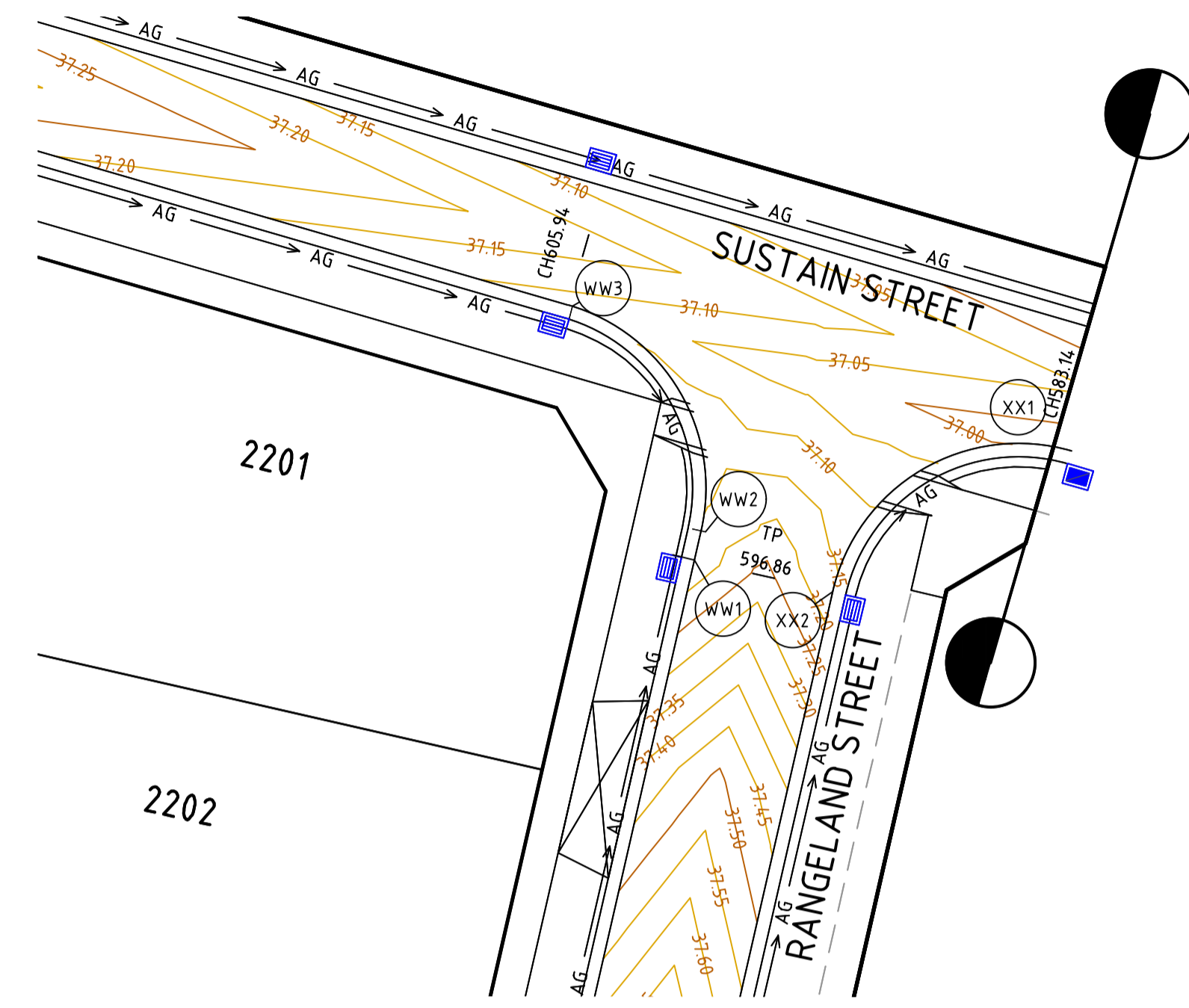
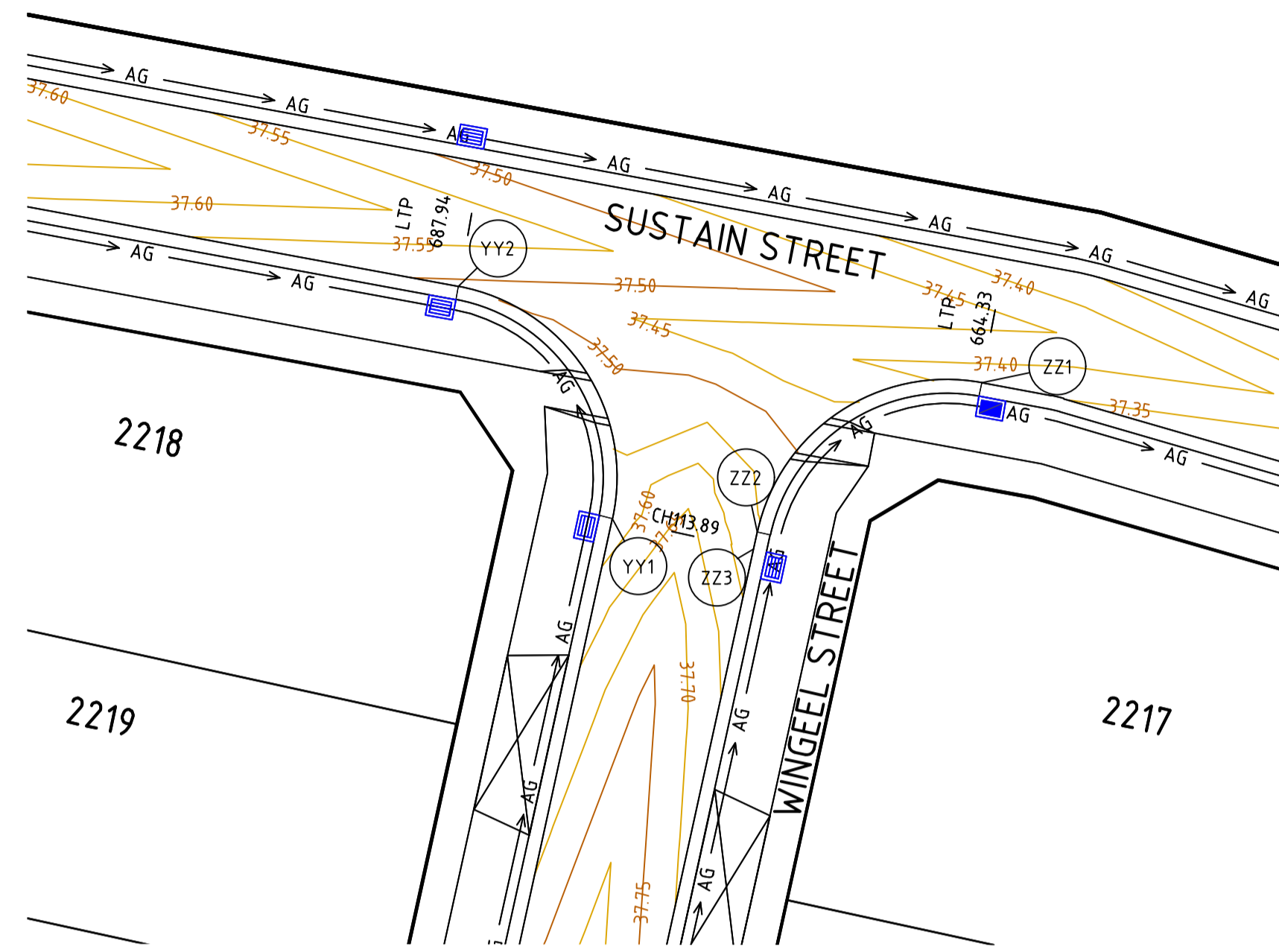
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MAMBOURIN
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INTERSECTION DETAILS - INTERSECTION DETAILS
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FRASERS PROPERTY LTD

PRELIMINARY Drg No 309509CR500 Rev A

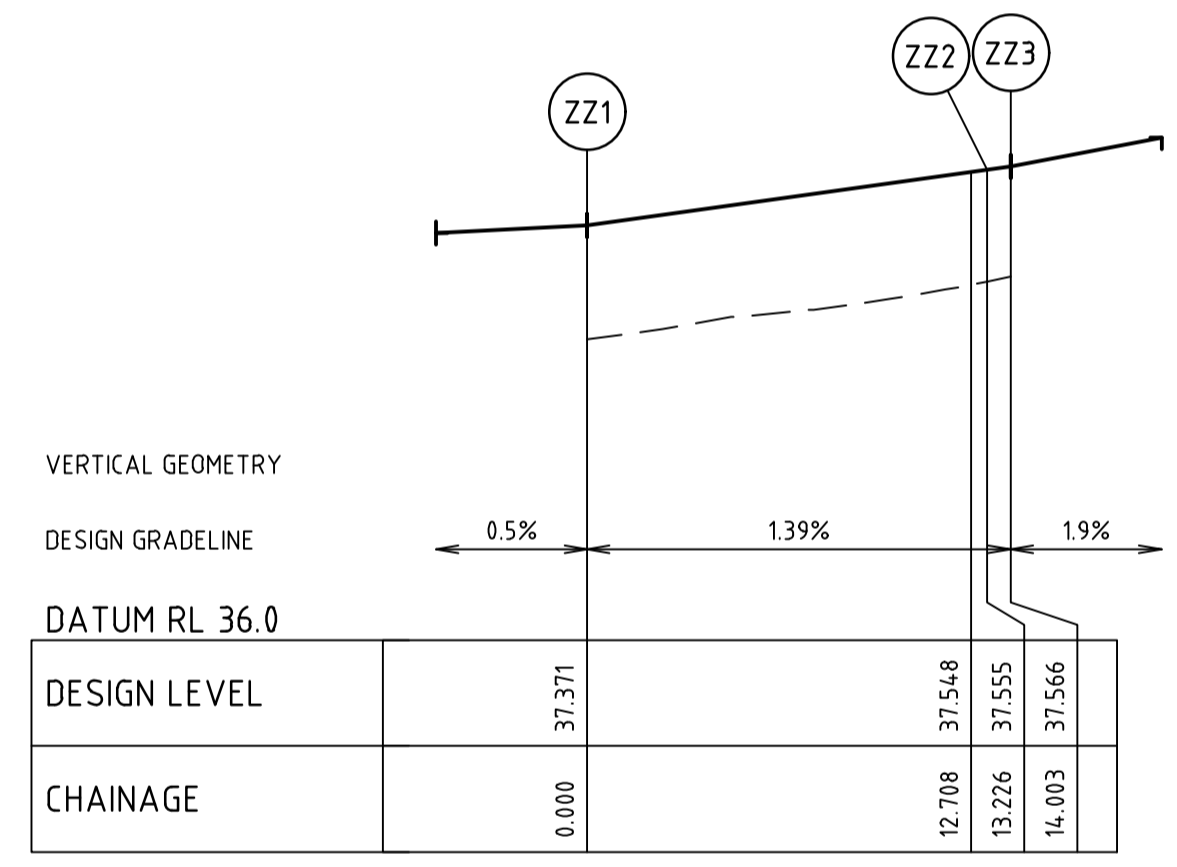


KERB YY

ALIGNMENT YY

POINT NO	EASTING	NORTHING	RL
YY1	289282.567	5804060.709	37.568
1/4	289282.618	5804064.134	37.548
1/2	289281.328	5804067.306	37.528
3/4	289278.902	5804069.724	37.509
YY2	289275.725	5804071.004	37.489

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
YY1-YY2	8.600	13.792	12.361	2.620	-0.682

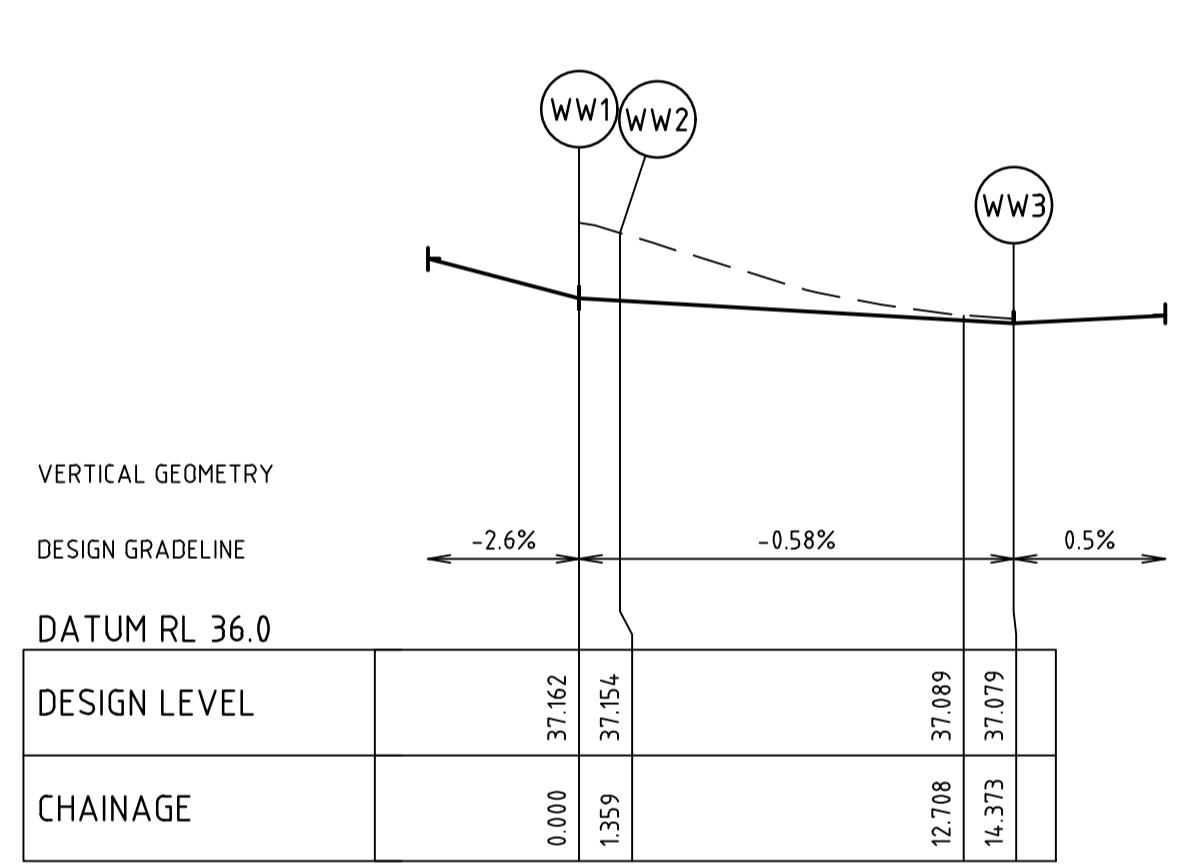


KERB ZZ

ALIGNMENT ZZ

POINT NO	EASTING	NORTHING	RL
ZZ1	289298.946	5804066.721	37.371
1/4	289295.660	5804066.689	37.417
1/2	289292.626	5804065.426	37.464
3/4	289290.288	5804063.118	37.510
ZZ2	289288.985	5804060.101	37.557
ZZ3	289288.819	5804059.342	37.568

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
ZZ1-ZZ2	8.600	13.226	11.960	2.420	-0.628

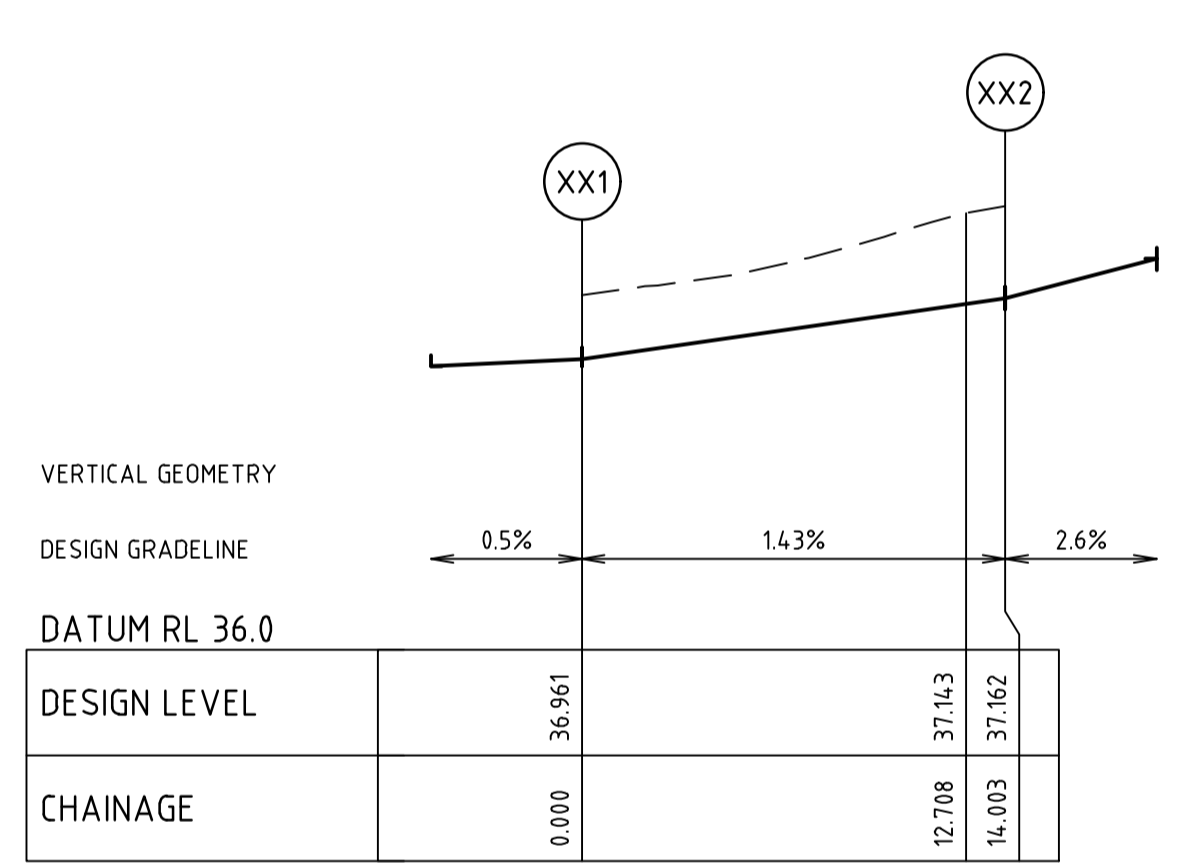


KERB WW

ALIGNMENT WW

POINT NO	EASTING	NORTHING	RL
WW1	289360.522	5804039.381	37.162
WW2	289360.824	5804040.706	37.154
1/4	289360.939	5804043.938	37.135
1/2	289359.851	5804046.984	37.117
3/4	289357.715	5804049.413	37.098
WW3	289354.834	5804050.881	37.079

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
WW2-WW3	8.600	13.014	11.808	2.347	-0.608

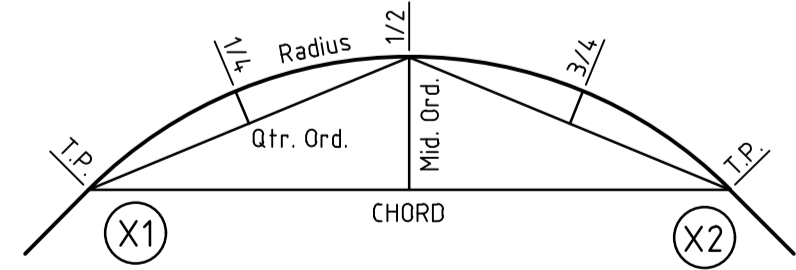


KERB XX

ALIGNMENT XX

POINT NO	EASTING	NORTHING	RL
XX1	289377.539	5804044.301	36.961
1/4	289374.073	5804044.574	37.011
1/2	289370.782	5804043.452	37.061
3/4	289368.204	5804041.119	37.112
XX2	289366.761	5804037.956	37.162

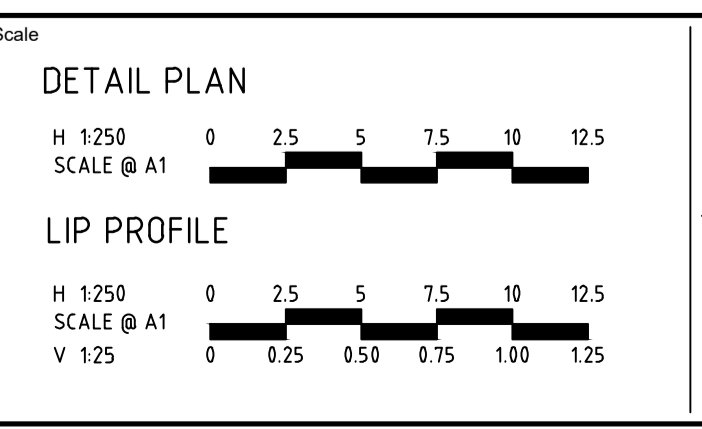
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XX1-XX2	8.600	14.003	12.507	2.696	-0.703



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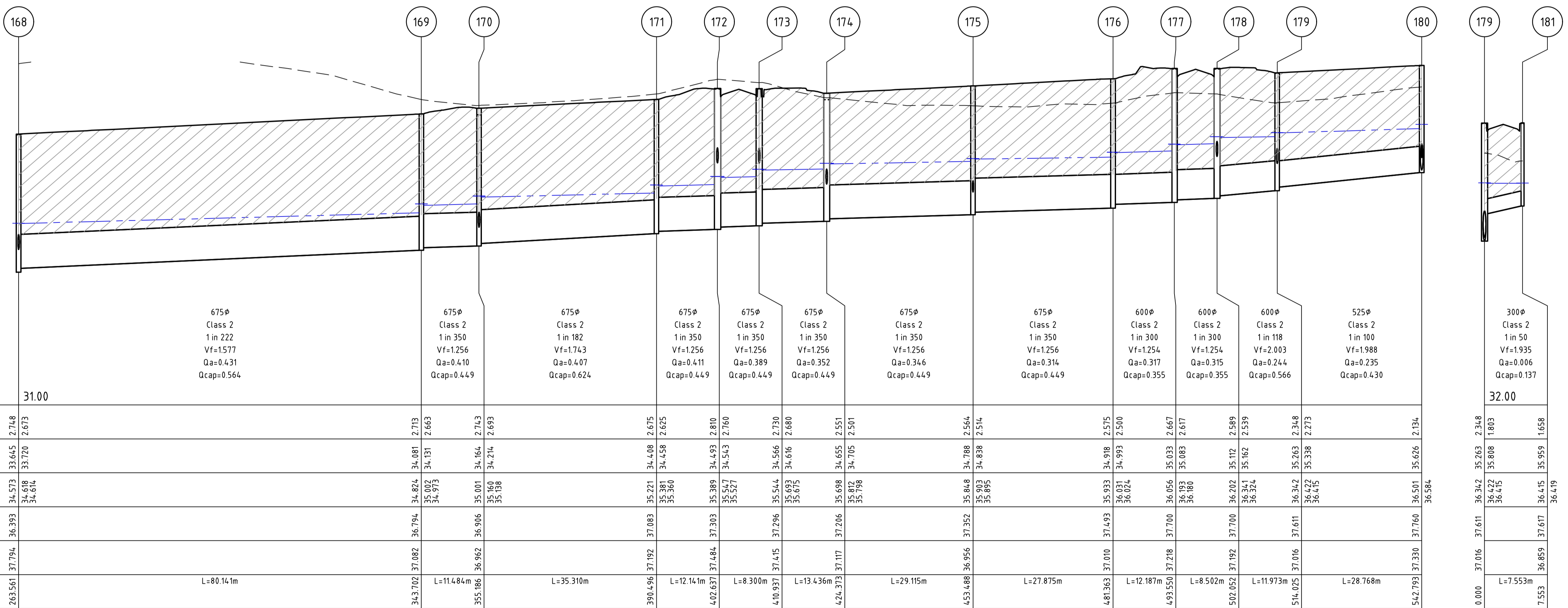
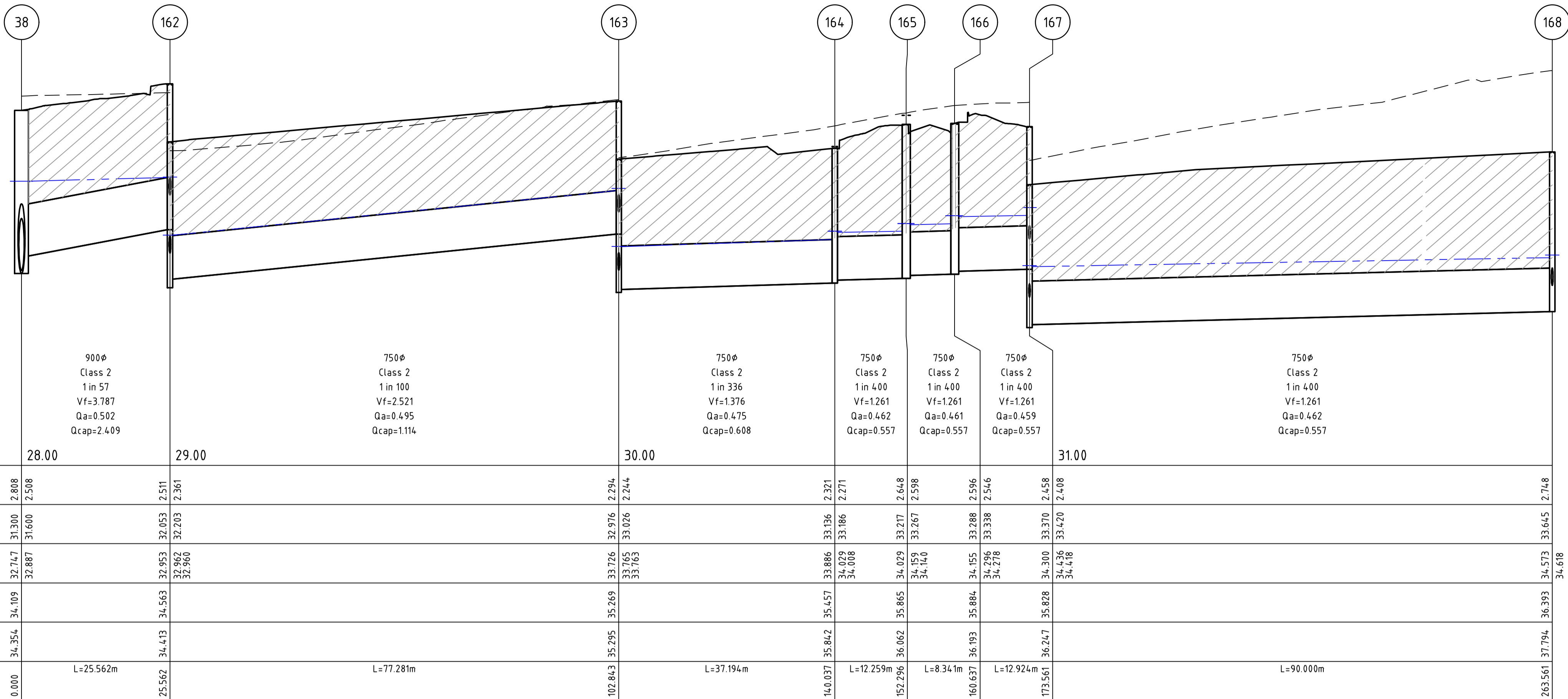
Mambourin

MAMBOURIN STAGE 22
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FRASERS PROPERTY LTD

PRELIMINARY Drg No: 309509CR501 Rev: A

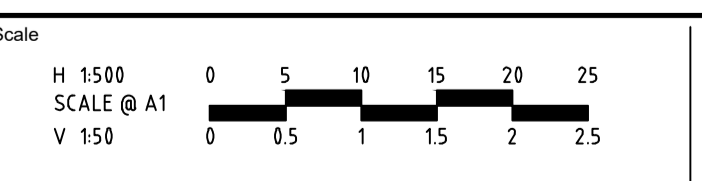


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Rev	Description	Approved	Date
B	DRAINAGE ALIGNMENT EXTENDED, SIGNAGE & PRAM CROSSING AMENDED	MI.R	31/01/23
A	PRELIMINARY ISSUE	MI.R	21/12/22



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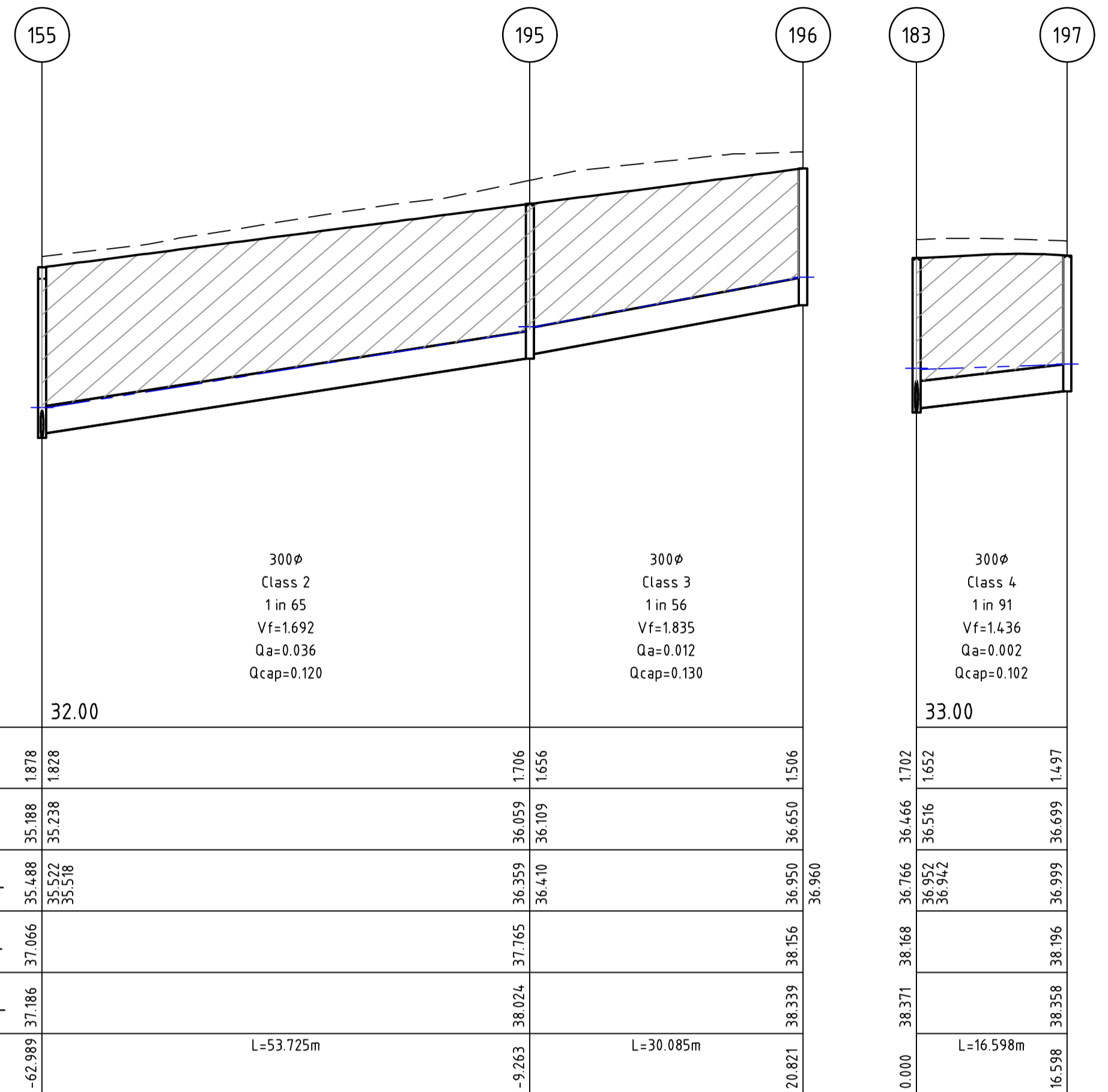
MAMBOURIN
STAGE 22
ROAD AND DRAINAGE
DRAINAGE LONG SECTIONS
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD
PRELIMINARY Doc No **309509CR600** Rev **B**

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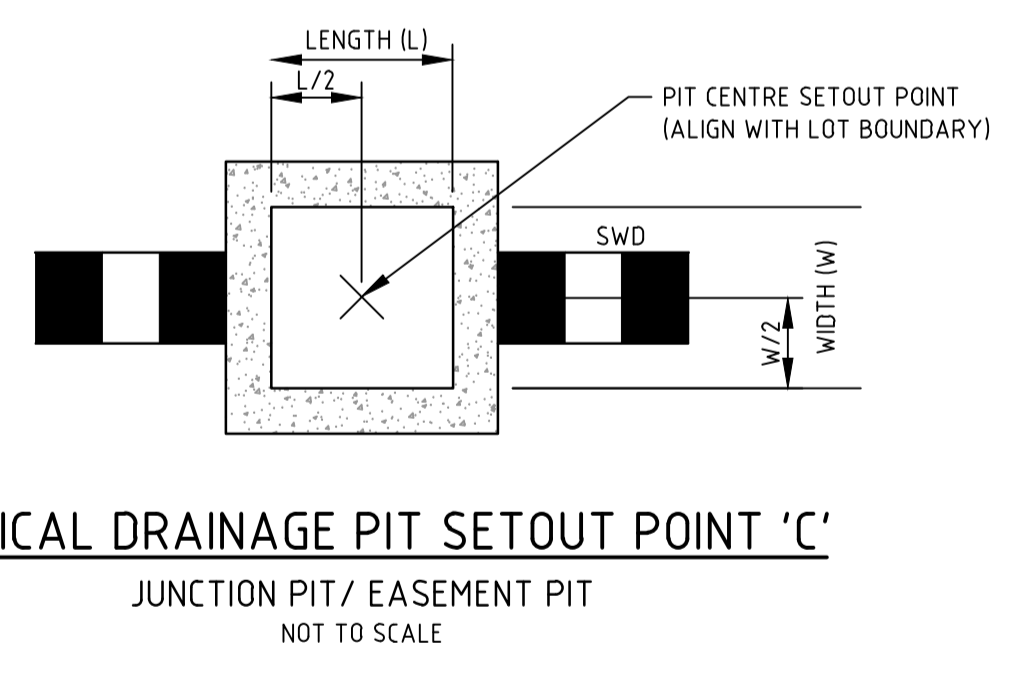
DRAINAGE PIT SCHEDULE

PIT NAME	TYPE	INTERNAL		INLET		OUTLET		PIT		REMARKS
		WIDTH	LENGTH	DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
162	GRATED SIDE ENTRY PIT	1350	900	750	31.802	900	31.652	34.563	2.912	
163	GRATED SIDE ENTRY PIT	1200	900	750	32.624	750	32.574	35.269	2.695	
164	GRATED SIDE ENTRY PIT	1350	900	750	33.046	750	32.996	35.457	2.461	
165	GRATED SIDE ENTRY PIT	1500	1350	750	33.267	750	33.217	35.865	2.648	
166	GRATED SIDE ENTRY PIT	1200	1500	750	33.338	750	33.288	35.884	2.596	
167	GRATED SIDE ENTRY PIT	1350	900	750	33.420	750	33.370	35.828	2.458	
168	GRATED SIDE ENTRY PIT	1200	900	675	33.720	750	33.645	36.393	2.748	
169	JUNCTION PIT	1350	900	675	34.131	675	34.081	36.794	2.713	
170	GRATED SIDE ENTRY PIT	1350	900	675	34.214	675	34.164	36.906	2.743	
171	JUNCTION PIT	1350	900	675	34.458	675	34.408	37.083	2.675	
172	GRATED SIDE ENTRY PIT	1350	1200	675	34.543	675	34.493	37.303	2.810	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT AND REFER TO EDM601 FOR SINGLE GRATED SIDE ENTRY PIT CONNECTED TO JUNCTION PIT
173	GRATED SIDE ENTRY PIT	1200	1200	675	34.616	675	34.566	37.296	2.730	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT AND REFER TO EDM601 FOR SINGLE GRATED SIDE ENTRY PIT CONNECTED TO JUNCTION PIT
174	GRATED SIDE ENTRY PIT	1200	1200	675	34.705	675	34.655	37.206	2.551	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT AND REFER TO EDM601 FOR SINGLE GRATED SIDE ENTRY PIT CONNECTED TO JUNCTION PIT
175	JUNCTION PIT	1200	900	675	34.838	675	34.788	37.352	2.564	
176	JUNCTION PIT	1200	900	600	34.993	675	34.918	37.493	2.575	
177	GRATED SIDE ENTRY PIT	1200	900	600	35.083	600	35.033	37.700	2.667	
178	GRATED SIDE ENTRY PIT	1200	1200	600	35.162	600	35.112	37.700	2.589	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT AND REFER TO EDM601 FOR SINGLE GRATED SIDE ENTRY PIT CONNECTED TO JUNCTION PIT
179	GRATED SIDE ENTRY PIT	1200	900	525	35.338	600	35.263	37.611	2.348	REFER TO MELBOURNE WATER DRAWING 7251/08/408 & 7251/08/409 FOR JUNCTION PIT AND REFER TO EDM601 FOR SINGLE GRATED SIDE ENTRY PIT CONNECTED TO JUNCTION PIT
181	GRATED SIDE ENTRY PIT	600	900			300	35.959	37.617	1.658	
182	JUNCTION PIT	600	900	300	36.255	300	36.205	37.975	1.771	
183	GRATED SIDE ENTRY PIT	600	900	300	36.516	300	36.466	38.168	1.702	
184	JUNCTION PIT	600	900			300	37.817	38.727	0.909	
185	GRATED SIDE ENTRY PIT	600	900			300	36.315	37.976	1.661	
186	JUNCTION PIT	600	900			225	37.685	38.504	0.819	
187	GRATED SIDE ENTRY PIT	600	900			300	35.548	37.206	1.658	
188	JUNCTION PIT	600	900			300	36.598	38.093	1.494	
189	JUNCTION PIT	600	900			300	36.729	38.227	1.498	
190	GRATED SIDE ENTRY PIT	600	900	300	35.875	300	35.825	37.631	1.807	
191	JUNCTION PIT	600	900	300	36.237	300	36.187	38.122	1.935	
192	GRATED SIDE ENTRY PIT	600	900	300	36.429	300	36.379	38.246	1.866	
193	GRATED SIDE ENTRY PIT	600	900			300	36.616	38.279	1.664	
194	JUNCTION PIT	600	900			300	36.052	37.758	1.706	
195	GRATED SIDE ENTRY PIT	600	900	300	36.109	300	36.059	37.765	1.706	
196	JUNCTION PIT	600	900			300	36.650	38.156	1.506	
197	GRATED SIDE ENTRY PIT	600	900			300	36.699	38.196	1.497	

- NOTES:
- ALL GRATED SIDE ENTRY PITS ARE TO BE IN ACCORDANCE WITH EDM601 AND EDM605 OR EDM606 (UNLESS NOTED OTHERWISE)
 - ALL JUNCTION PITS ARE TO BE IN ACCORDANCE WITH EDM605 OR EDM606 (UNLESS NOTED OTHERWISE)
 - ALL PITS WITH A WIDTH GREATER THAN 600mm ARE TO BE HAUNCHED PITS IN ACCORDANCE WITH EDM607 OR EDM608 (UNLESS NOTED OTHERWISE)
 - ALL GRATED ENTRY ARE TO BE IN ACCORDANCE WITH EDM605 OR EDM606 WITH "BIKE-SAFE" HOT DIP GALVANIZED CLASS D GRATING & FRAME TO SUIT (UNLESS NOTED OTHERWISE)
 - ENDWALL TO BE STANDARD ROCLA HEADWALL (OR APPROVED EQUIVALENT)



	155	195	196	183	197
Pipe Diameter	300φ	300φ	300φ	300φ	300φ
Pipe Class	Class 2	Class 3	Class 3	Class 4	Class 4
Pipe Grade	1 in 65	1 in 56	1 in 56	1 in 91	1 in 91
Velocity (m/s)	Vf=1.692	Vf=1.835	Vf=1.835	Vf=1.436	Vf=1.436
Pipe Flow (m3/s)	Qa=0.036	Qa=0.012	Qa=0.012	Qa=0.002	Qa=0.002
Pipe Capacity (m3/s)	Qcap=0.120	Qcap=0.130	Qcap=0.130	Qcap=0.102	Qcap=0.102
DATUM	32.00			33.00	
DEPTH TO INVERT	1.878	1.706	1.656	1.702	1.497
DESIGN INVERT LEVEL	35.122	36.059	36.109	36.466	36.999
HYDRAULIC GRADE LEVEL	35.518	36.410	36.950	36.972	36.999
FINISHED SURFACE LEVEL	37.066	37.765	38.156	38.168	38.196
EXISTING SURFACE LEVEL	37.186	38.024	38.339	38.371	38.358
CHAINAGE	-0.289	-2.263	20.821	0.000	16.598
		L=53.725m	L=30.085m		L=16.598m

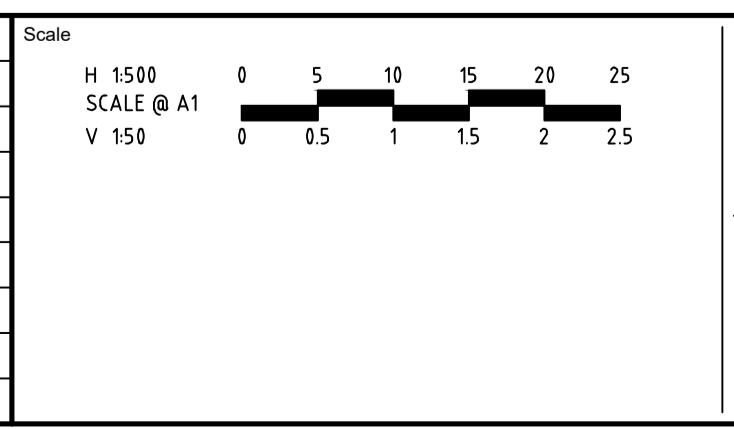


PIT SETOUT COORDINATES

NAME	POINT	EASTING	NORTHING
162	C	289346.872	5803722.213
163	C	289338.914	5803689.079
164	C	289365.715	5803797.162
165	C	289334.909	5803708.672
166	C	289374.784	5803833.233
167	C	289368.500	5803843.365
168	C	289369.862	5803851.592
169	C	289379.555	5803857.744
170	C	289293.508	5803754.396
171	C	289399.595	5803945.484

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Rev	Description	By	Date
A	DRAINAGE ALIGNMENT EXTENDED, SIGNAGE & PRAM CROSSING AMENDED	M.I.R	31/01/23
	Amendments	Approved	Date



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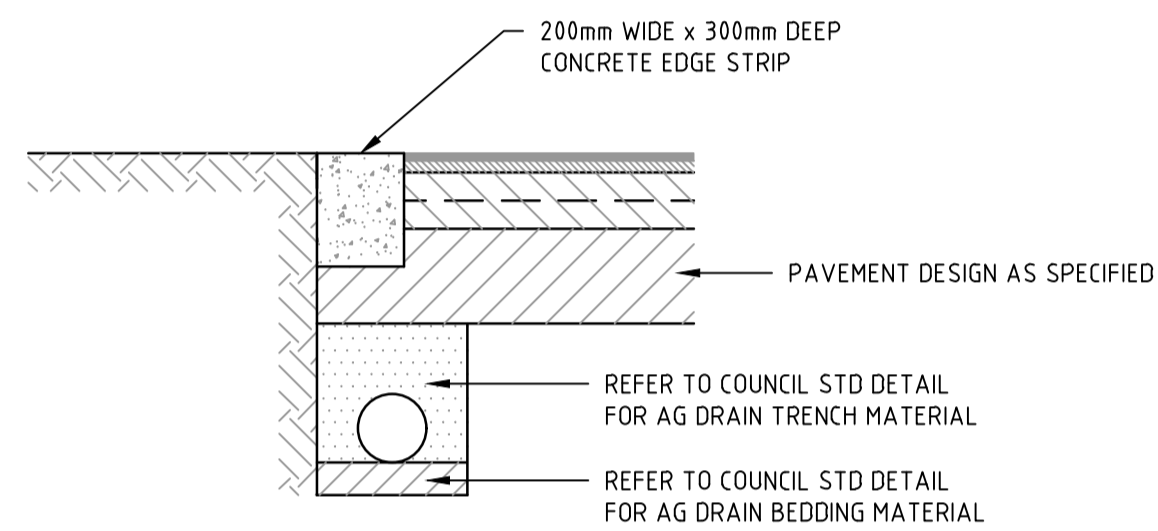
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MAMBOURIN STAGE 22
 ROAD AND DRAINAGE
 DRAINAGE LONG SECTIONS - DRAINAGE PIT SCHEDULE
 WYNDHAM CITY COUNCIL
 FRASERS PROPERTY LTD
PRELIMINARY Drg No: 309509CR602 Rev: A

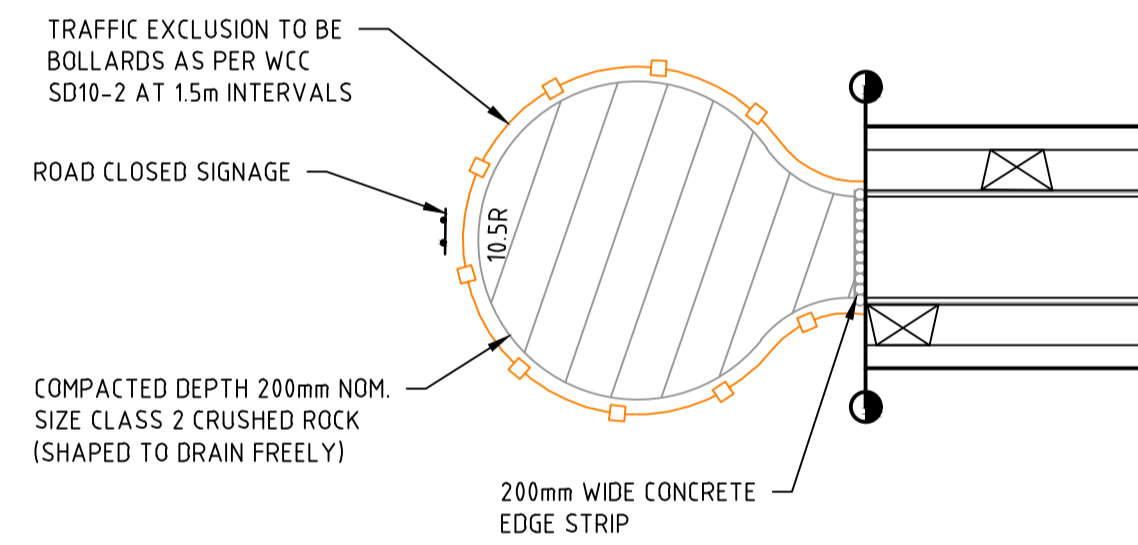
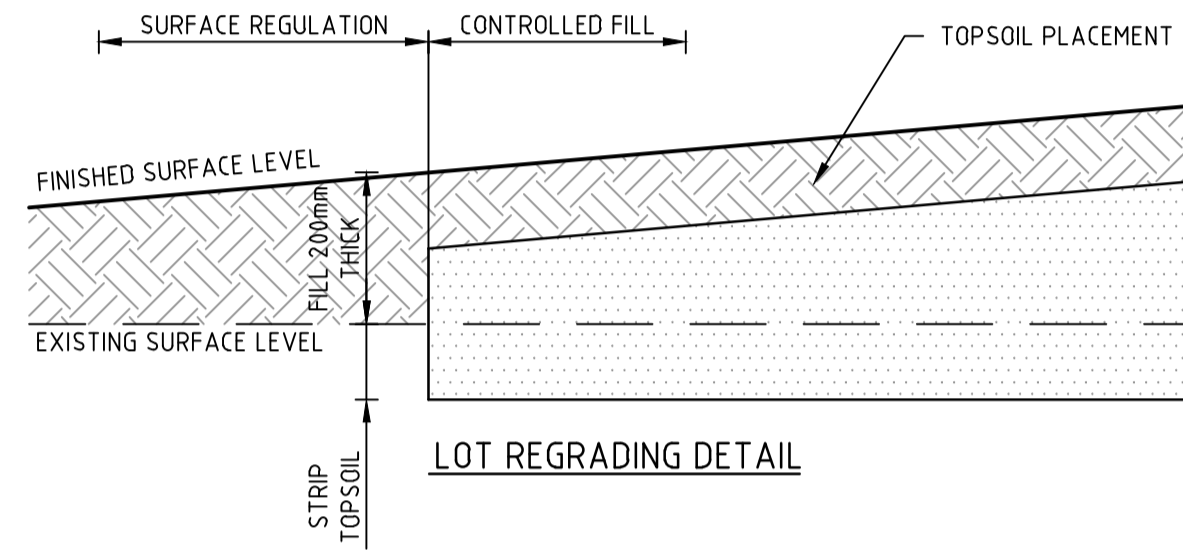
DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (m)	
		TYPE C	TYPE D
UPPER PAVEMENT LAYER			
ASPHALT WEARING COURSE	VICROADS SIZE 14 TYPE H, CLASS 170 BINDER	40	40
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		
	VICROADS SIZE 14 TYPE V, CLASS 320 BINDER		
ASPHALT INTERMEDIATE COURSE	VICROADS SIZE 20 TYPE SI, CLASS 320 BINDER	75	
ASPHALT BASE COURSE	VICROADS SIZE 20 TYPE SF, CLASS 320 BINDER	75	
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40
	SAMI (SIZE 10 CLASS S18RF)	Y	Y
	BITUMINOUS PRIME	Y	Y
LOWER PAVEMENT LAYER			
SUBBASE COURSE	3% CEMENT TREATED CRUSHED ROCK	100	
GRANULAR BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT		110
GRANULAR SUBBASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	160	
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		140
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		130
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 x 10 ⁻⁹ m/s	150	150
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 x 10 ⁻⁹ m/s	150	150
PAVEMENT DEPTH		600	610
CONSTRUCTION LAYER		150	150
TOTAL DEPTH		750	760

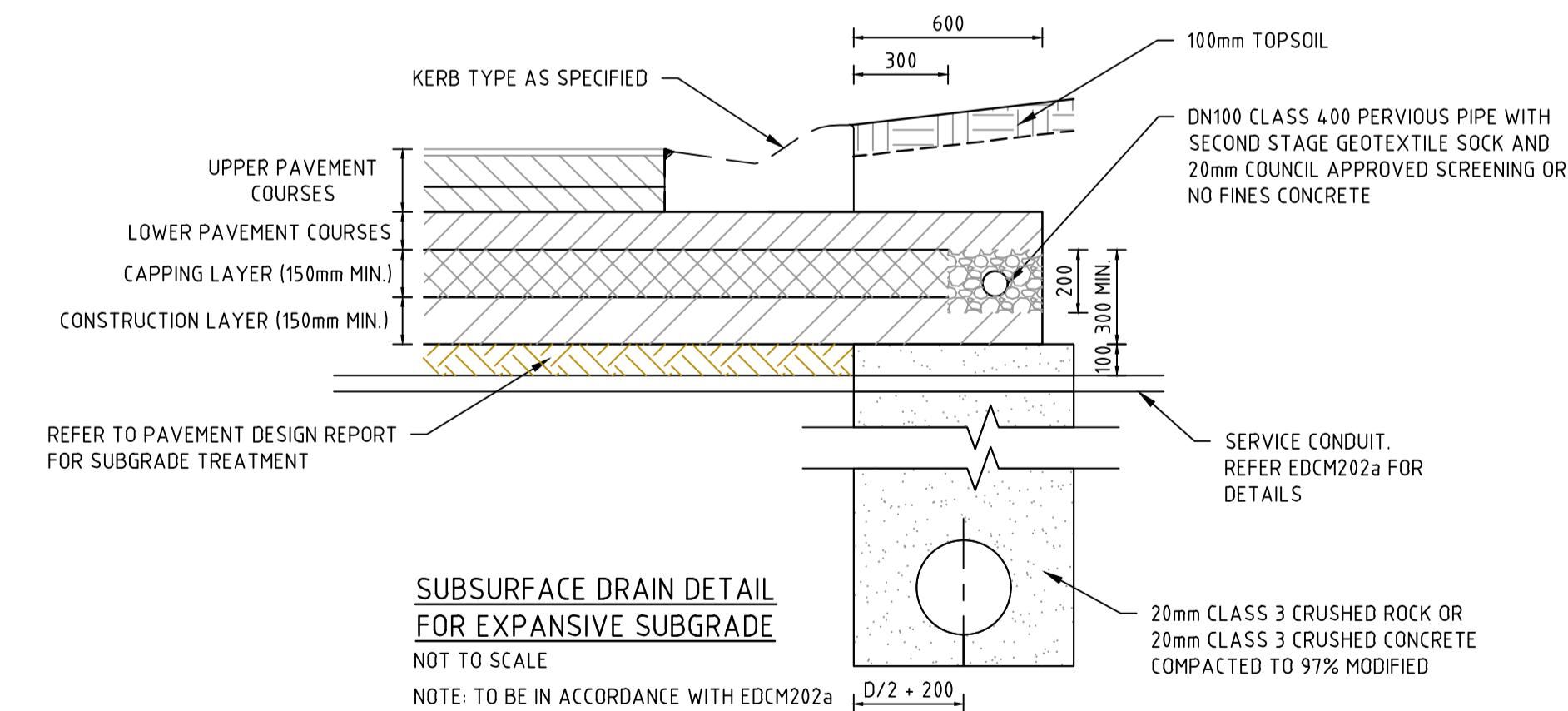
SUBGRADE = CLAY WITH DESIGN CBR OF 2%. TO BE IMPROVED TO A DEPTH NOT LESS THAN 150 MM USING SUBGRADE IMPROVEMENT LAYER OR IN-SITU STABILISED WITH A CBR VALUE >10%



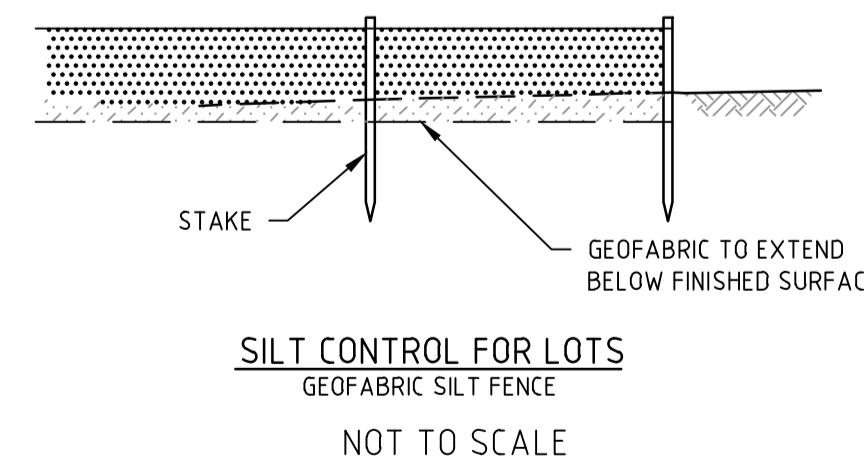
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL



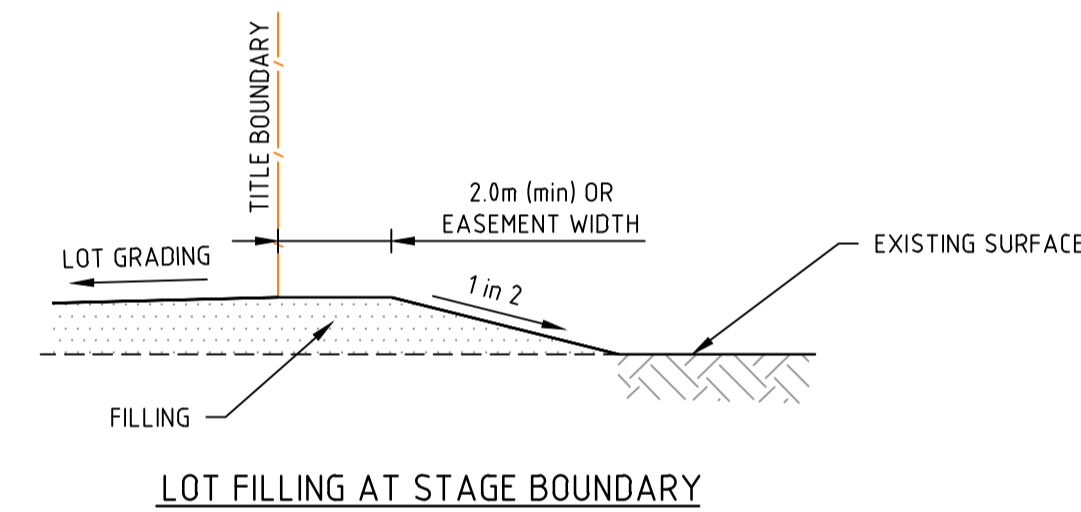
TEMPORARY TURNING AREA DETAIL



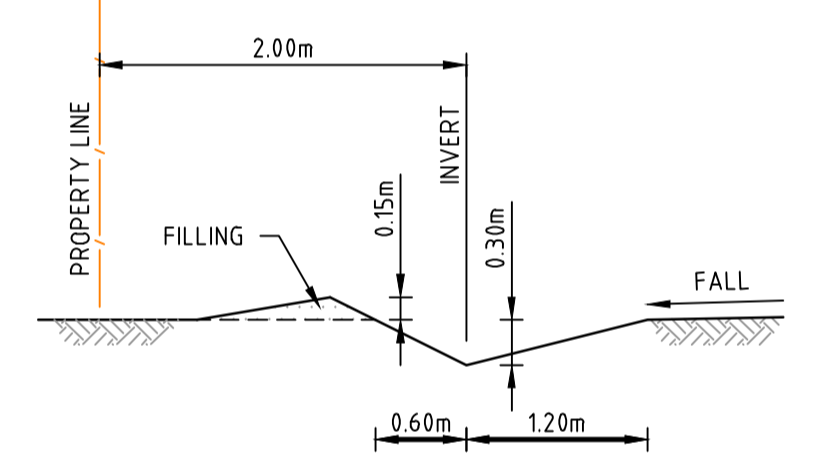
SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE NOT TO SCALE



SILT CONTROL FOR LOTS GEOFABRIC SILT FENCE NOT TO SCALE

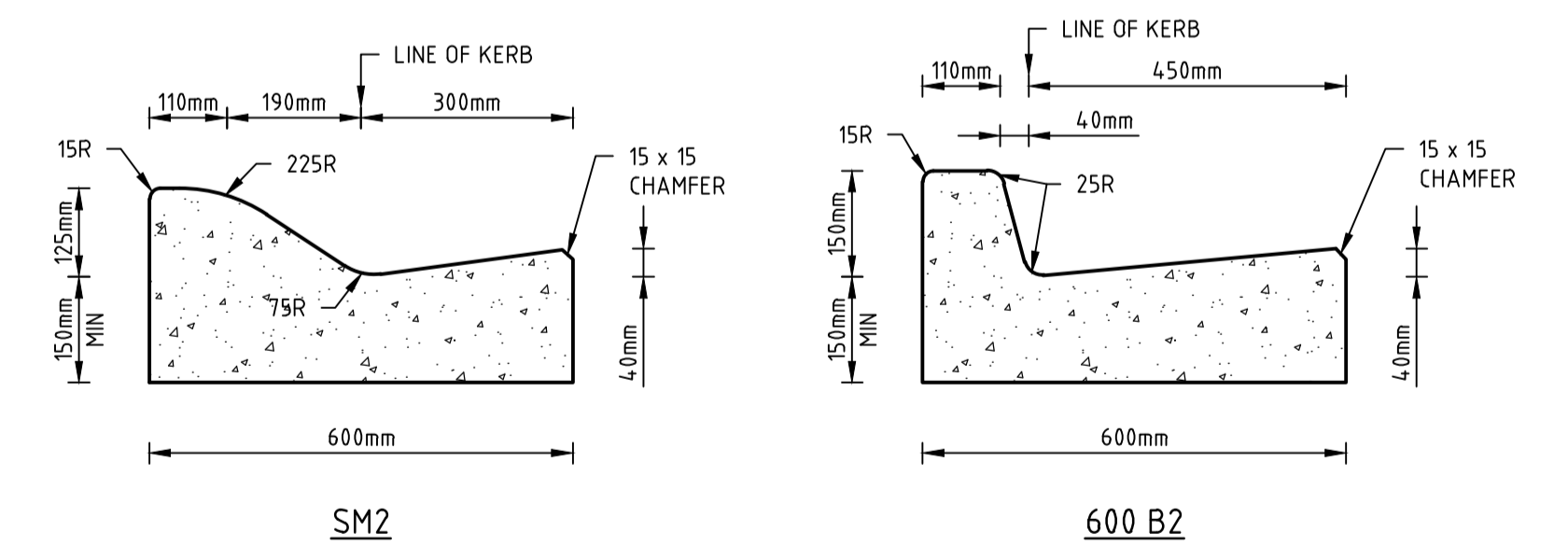


LOT FILLING AT STAGE BOUNDARY



TYPICAL CATCH DRAIN SECTION

NOT TO SCALE



STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDMC 301

H 1:100 SCALE @ A1

PAVEMENT DETAILS

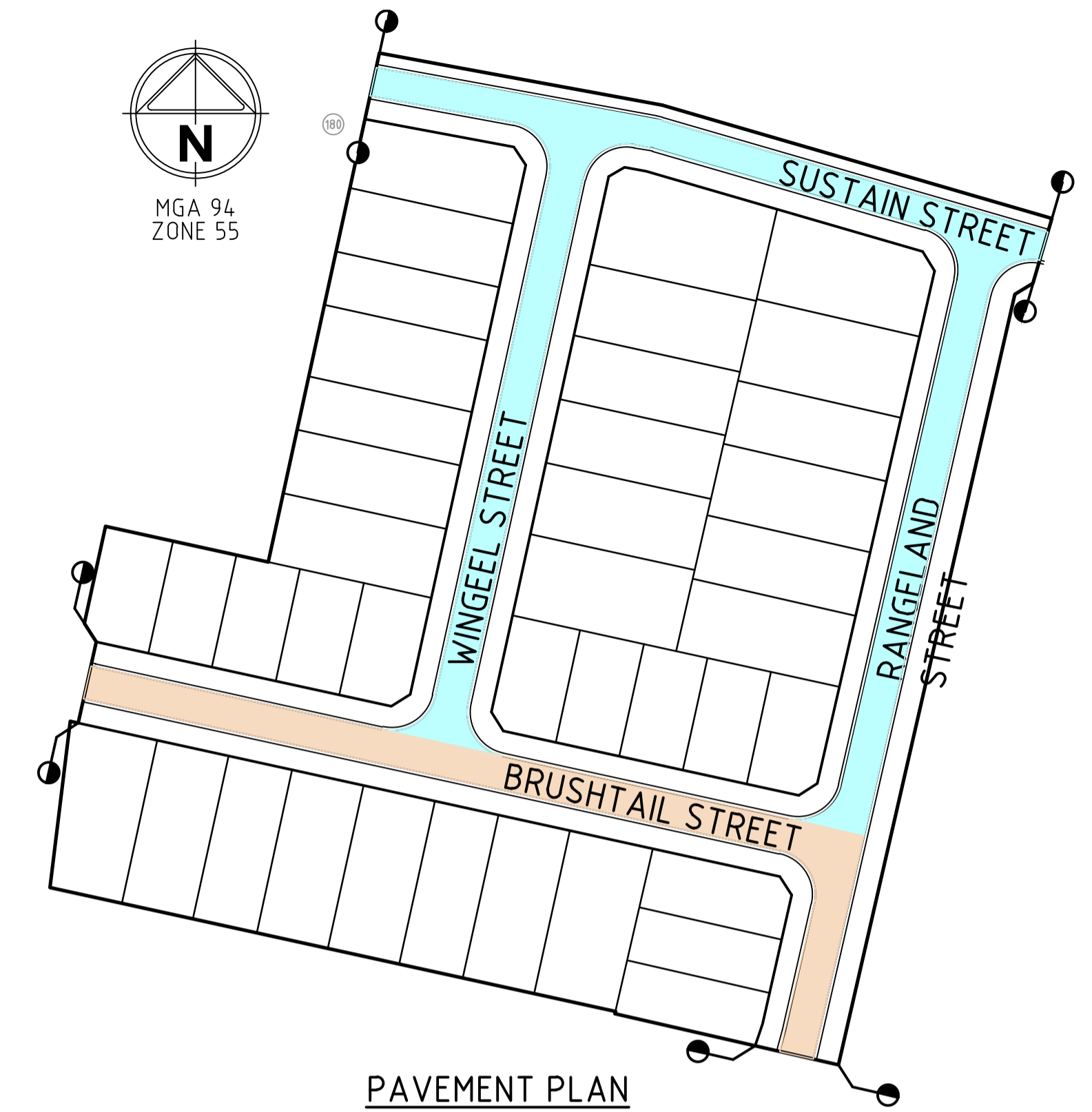
THE PAVEMENT DESIGNS SHOWN HERE HAVE BEEN DESIGNED/PROVIDED BY COFFEY WHO ARE RESPONSIBLE FOR THE GEOTECHNICAL WORK ON THIS PROJECT. SPIIRE IS NOT RESPONSIBLE FOR THE WORK OF COFFEY.

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A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

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ROAD NAME	TYPE
SUSTAIN STREET	ACCESS STREET LEVEL 1
RANGELAND STREET	ACCESS STREET LEVEL 2
BRUSHTAIL STREET	ACCESS STREET LEVEL 2
WINGEEL STREET	ACCESS STREET LEVEL 2



PAVEMENT PLAN

H 1:1000 SCALE @ A1

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	Amendments	Approved	Date

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Date

MAMBOURIN STAGE 22
ROAD AND DRAINAGE
PAVEMENT AND TYPICAL DETAILS
WYNDHAM CITY COUNCIL
FRASERS PROPERTY LTD

PRELIMINARY Drg No **309509CR700** Rev **A**

