

MAMBOURIN STAGE 21 FRASER 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 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

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 1.50m 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 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

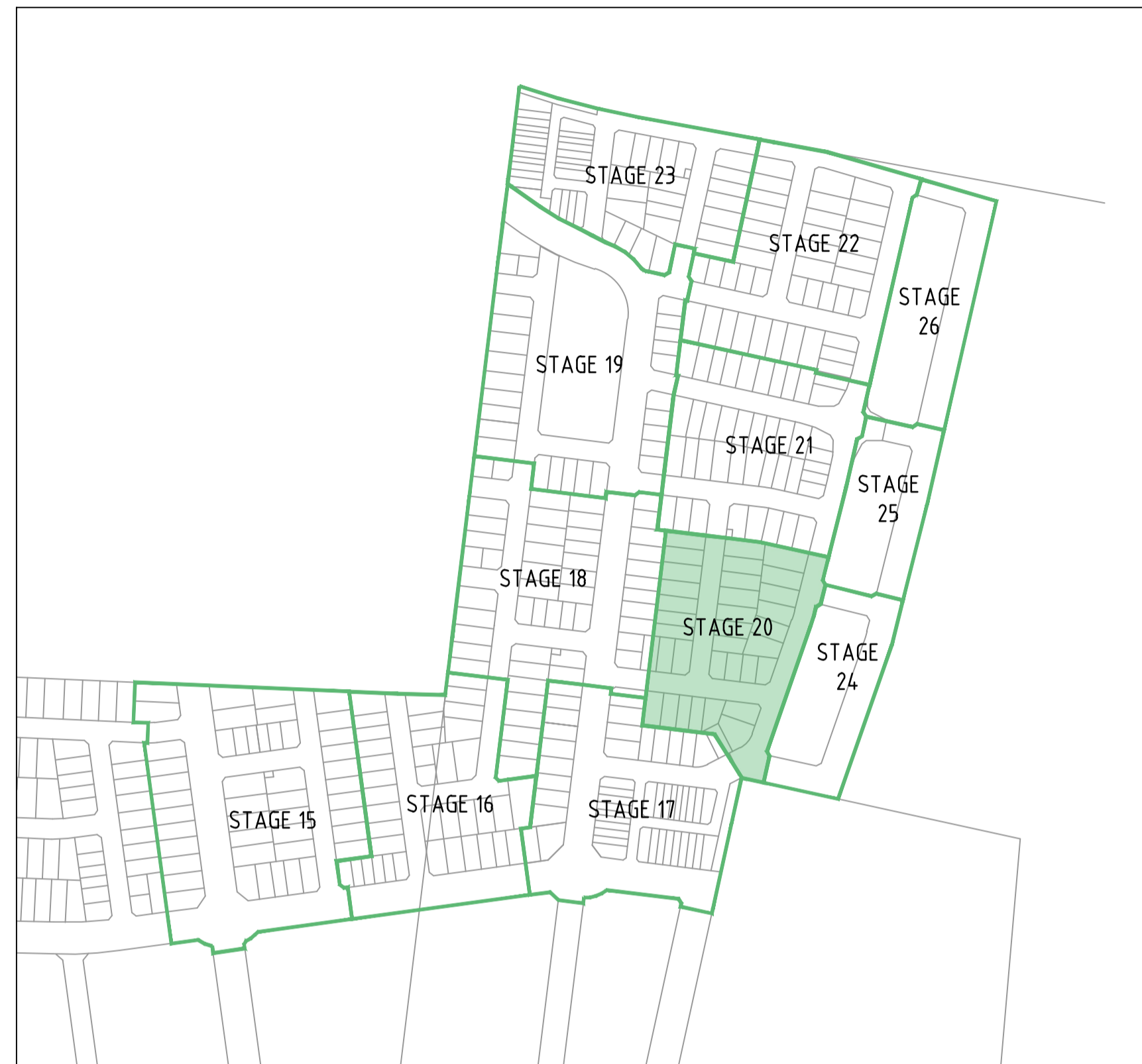
- PAVEMENT DEPTHS MAY BE MODIFIED AS DIRECTED BY THE SUPERINTENDENT. PAVEMENT TO BE BOXED OUT TO MINIMUM DEPTH DENOTED, INSPECTED AND IF SUBGRADE IS IN QUESTION, FURTHER TESTING CARRIED OUT TO DETERMINE FINAL PAVEMENT DEPTH.
- WHERE PAVEMENT IS CONSTRUCTED ON FILLING, FILL MATERIAL IS TO BE APPROVED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

H 14,000
SCALE @ A1

DRAWING SCHEDULE

DRAWING	DESCRIPTION	SHEET No.	REVISION
CR100	GENERAL NOTES	1	C
CR200	FACE PLAN	2	C
CR201	SERVICES PLAN	3	C
CR300	RANGELAND STREET & MORANT STREET LONG SECTIONS	4	A
CR301	NURTURE STREET & MINTBUSH STREET LONG SECTIONS	5	A
CR400	RANGELAND STREET CROSS SECTIONS	6	A
CR401	MORANT STREET CROSS SECTIONS	7	B
CR402	NURTURE STREET CROSS SECTIONS	8	A
CR403	MINTBUSH STREET CROSS SECTIONS	9	A
CR500	INTERSECTION DETAILS - SHEET 1	10	A
CR501	INTERSECTION DETAILS - SHEET 2	11	A
CR502	INTERSECTION DETAILS - SHEET 3	12	A
CR600	DRAINAGE LONG SECTIONS - SHEET 1	13	C
CR601	DRAINAGE LONG SECTIONS - SHEET 2	14	C
CR700	PAVEMENT AND TYPICAL DETAILS	15	B
CR800	SIGNAGE AND LINEMARKING	16	B

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
HEAVY DUTY VEHICLE CROSSING	—X—	—X—
CONCRETE VEHICLE CROSSING	—X—	—X—
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
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	—	—
FENCE - VEHICLE EXCLUSION	—	—
FENCES	—	—
FOOTPATH	—	—
FUTURE CRUSHED ROCK FOOTPATH	—	—
TACTILE GROUND SURFACE INDICATOR	—	—
KERB TRANSITION	—	B2 SM2
ROAD PAVEMENT	—	—
CONCRETE PAVEMENT	—	—
HEAVY DUTY CONCRETE PAVEMENT	—	—



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.

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Rev	Amendments	Approved	Date
C	PLASTIC PIPES ADDED & SWD LAYOUT AMENDED	M.I.R.	23/02/23
B	SHEETS 201, 401, 600, 601, 700 & 800 UPDATED AS PER COUNCIL COMMENTS	M.I.R.	03/01/23
A	PRELIMINARY ISSUE	M.I.R.	30/11/22

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Designed
K. FEARN-WANNAN

Authorised
G. KOHLMAN

Checked
G. KOHLMAN

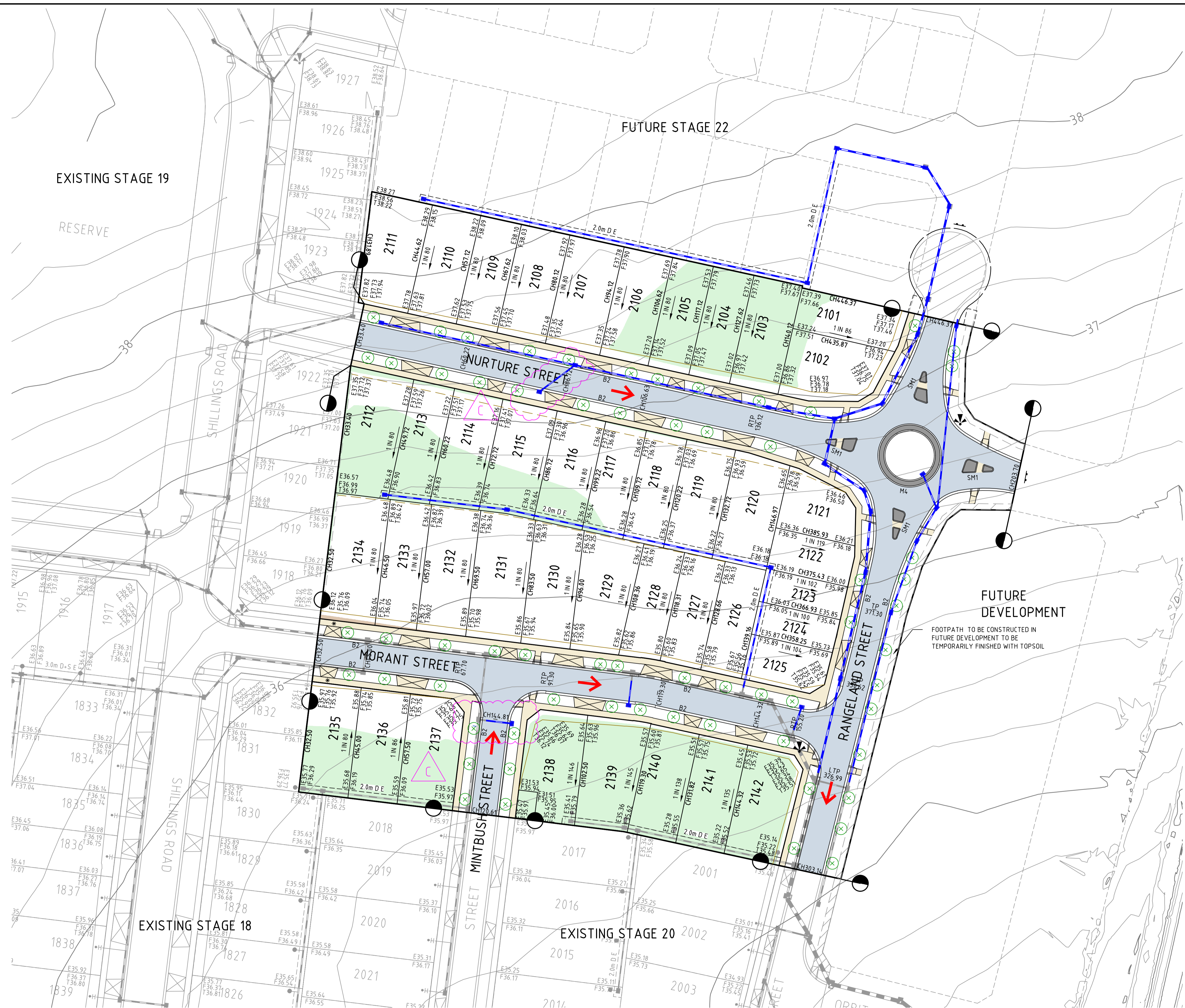
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**MAMBOURIN
STAGE 21
ROAD AND DRAINAGE
GENERAL NOTES**
WYNDHAM CITY COUNCIL
FRASER PROPERTY LTD

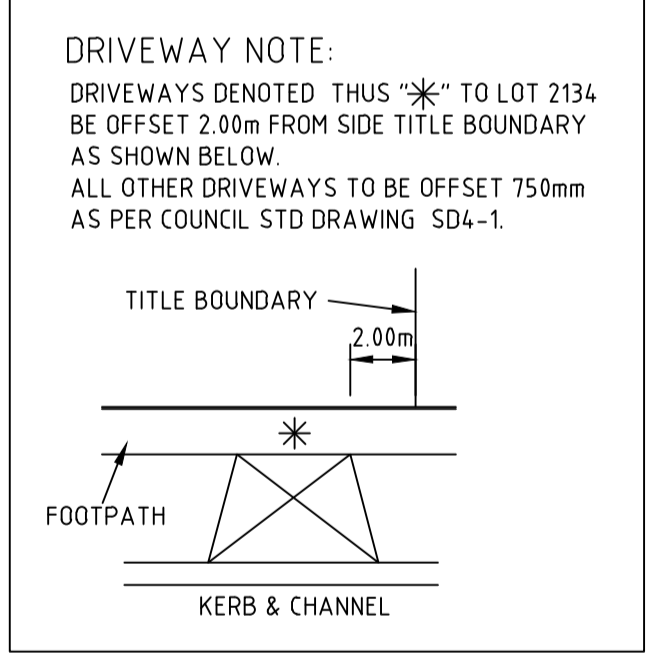
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Drg No
309508CR100

Rev
C



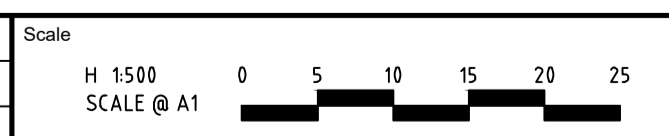
FUTURE DEVELOPMENT
FOOTPATH TO BE CONSTRUCTED IN FUTURE DEVELOPMENT TO BE TEMPORARILY FINISHED WITH TOPSOIL



WARNING
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Rev	Amendments	Approved	Date
C	PLASTIC PIPES ADDED & SWD LAYOUT AMENDED	M.I.R.	23/02/23
B	KIOSK & DRAINAGE AMENDED ADDED	M.I.R.	03/01/23
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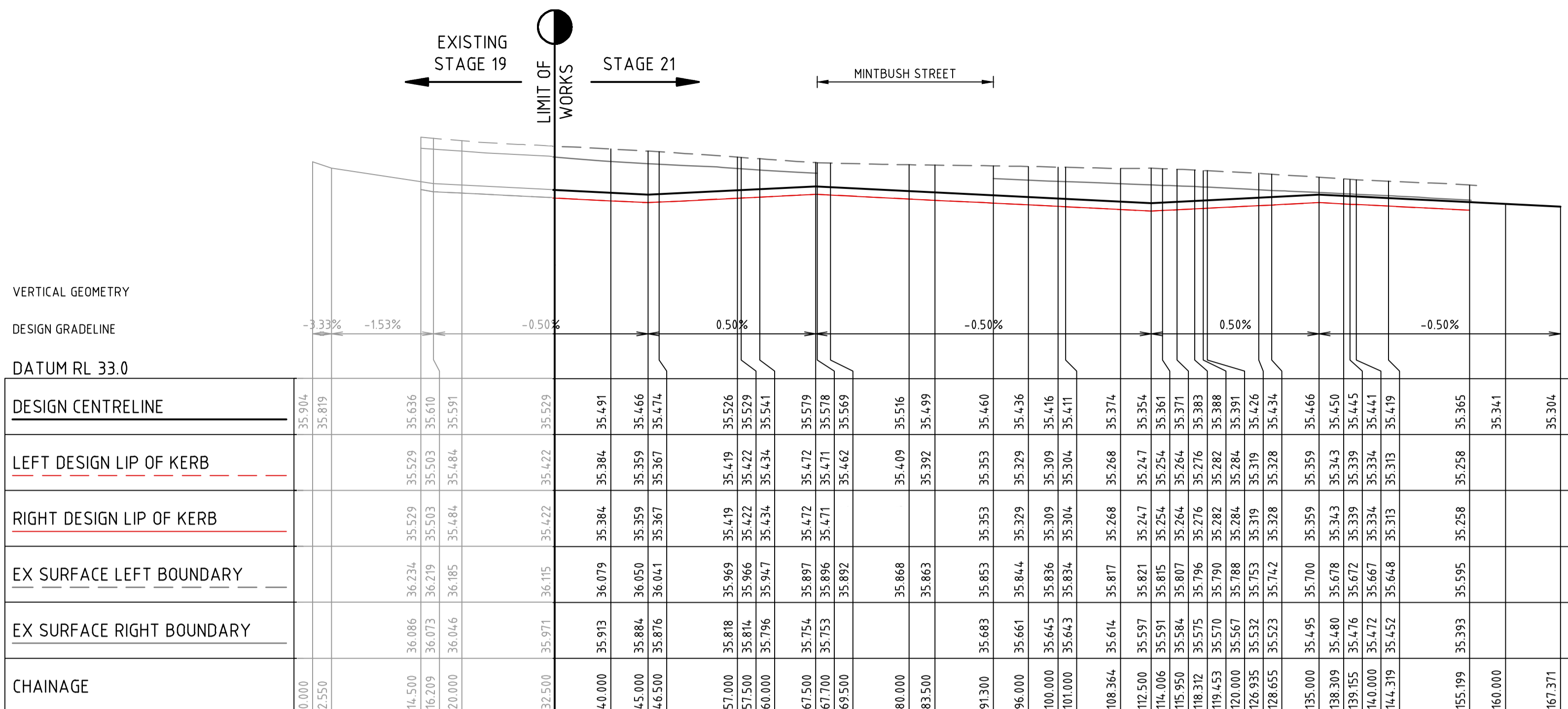
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G. KOHLMAN



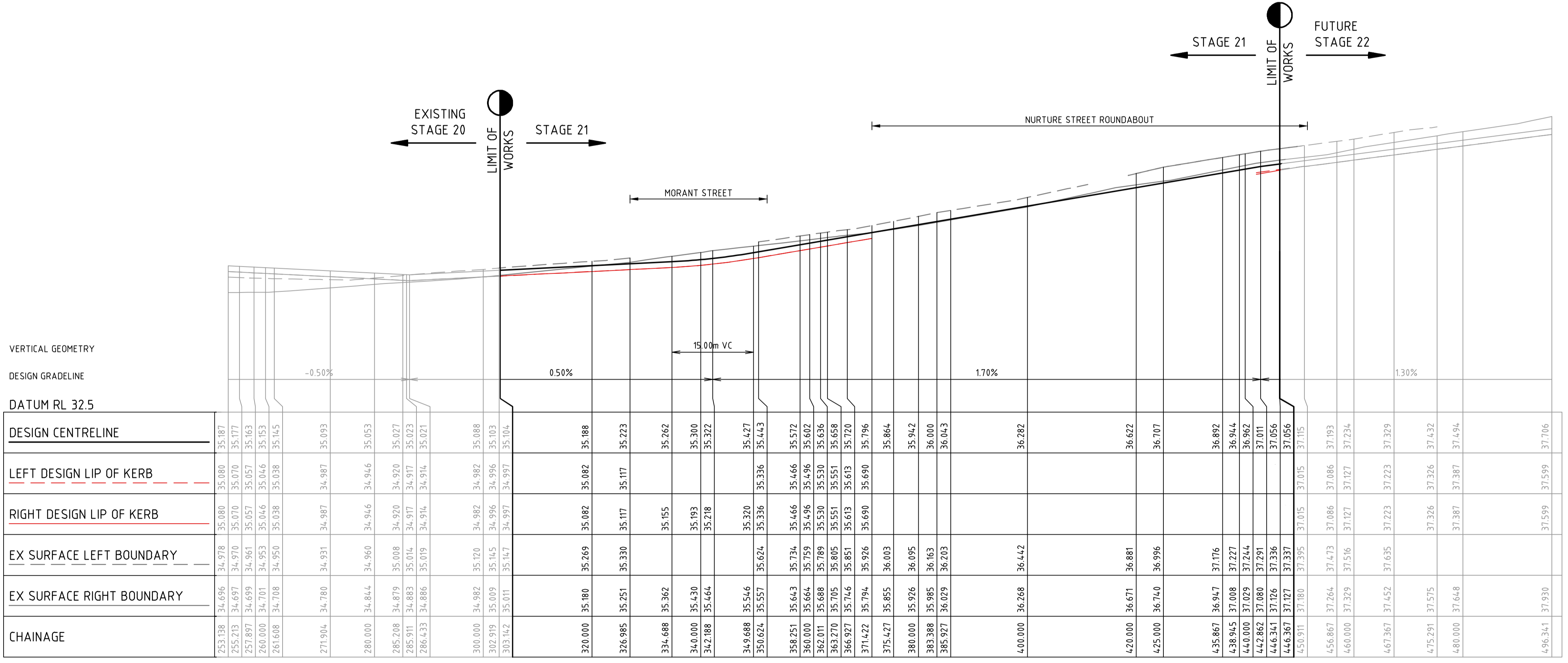
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G. KOHLMAN
Date
03/03/23

MAMBOURIN
STAGE 21
ROAD AND DRAINAGE
FACE PLAN
WYNDHAM CITY COUNCIL
FRASER PROPERTY LTD

PRELIMINARY Dwg No **309508CR200** Rev **C**



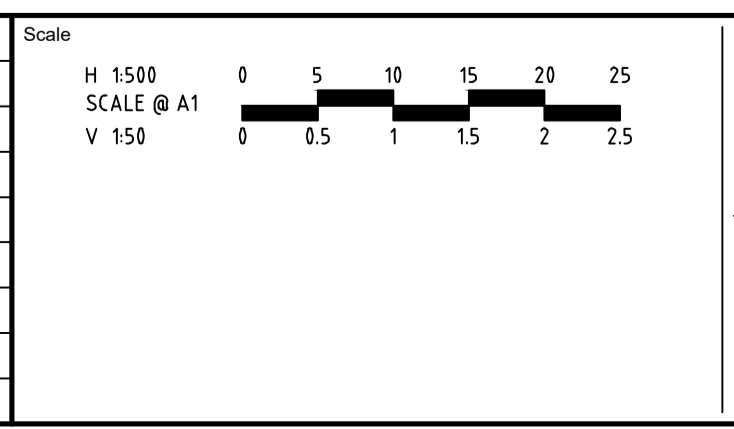
MORANT STREET



RANGELAND STREET

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Designed

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 Authorised

 G. KOHLMAN

Checked

 G. KOHLMAN

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 03/03/23

MAMBOURIN

STAGE 21

 ROAD AND DRAINAGE

 RANGELAND STREET & MORANT STREET LONG SECTIONS

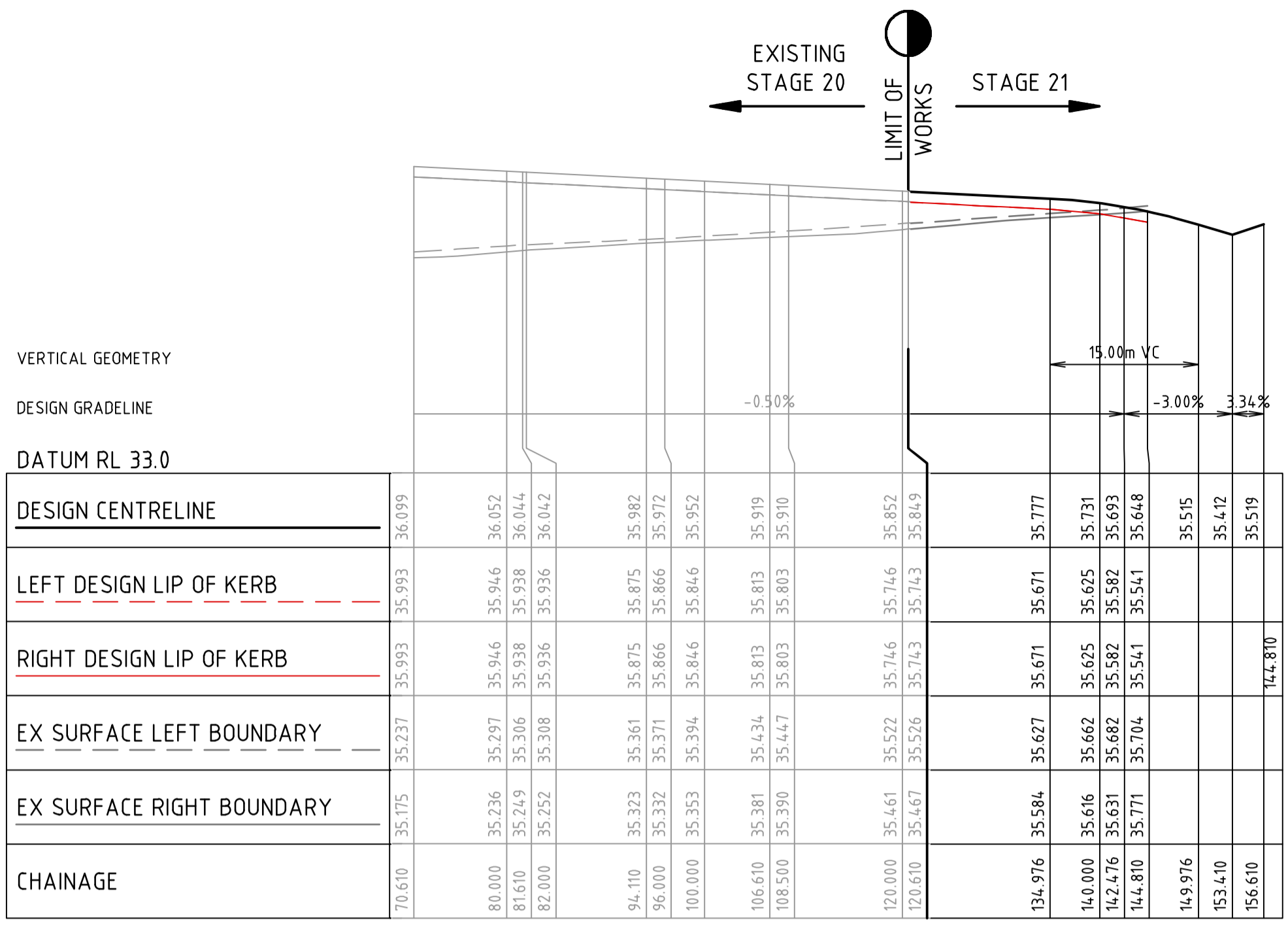
 WYNDHAM CITY COUNCIL

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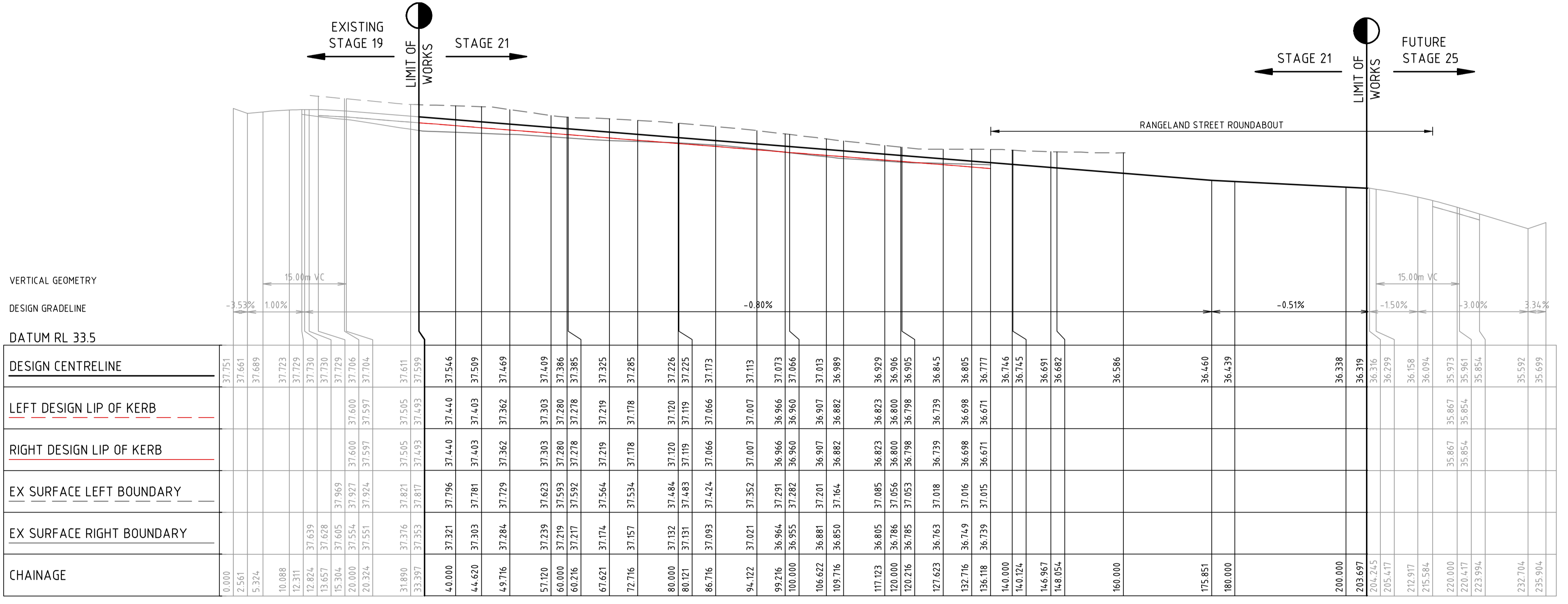
PRELIMINARY

Dwg No 309508CR300

Rev **A**



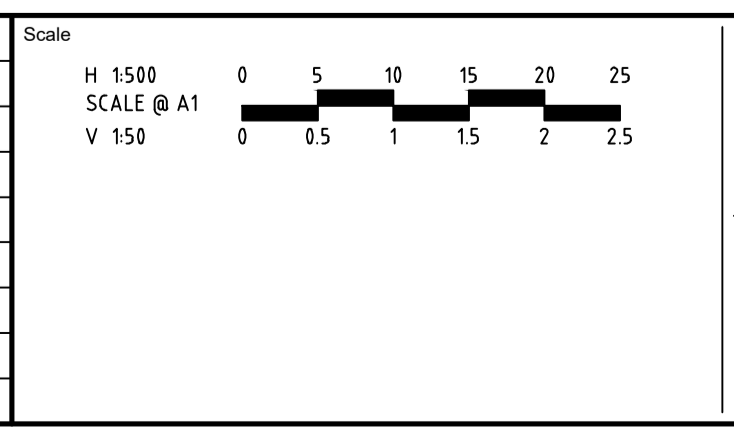
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NURTURE STREET

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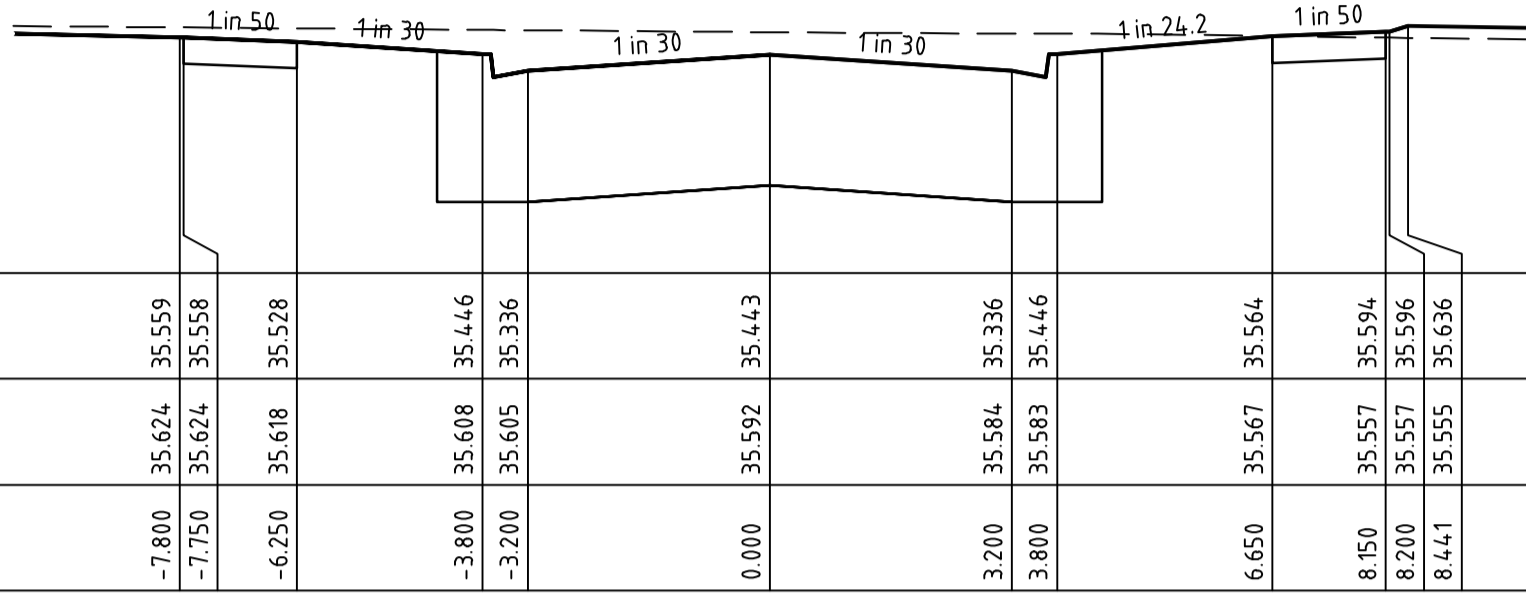
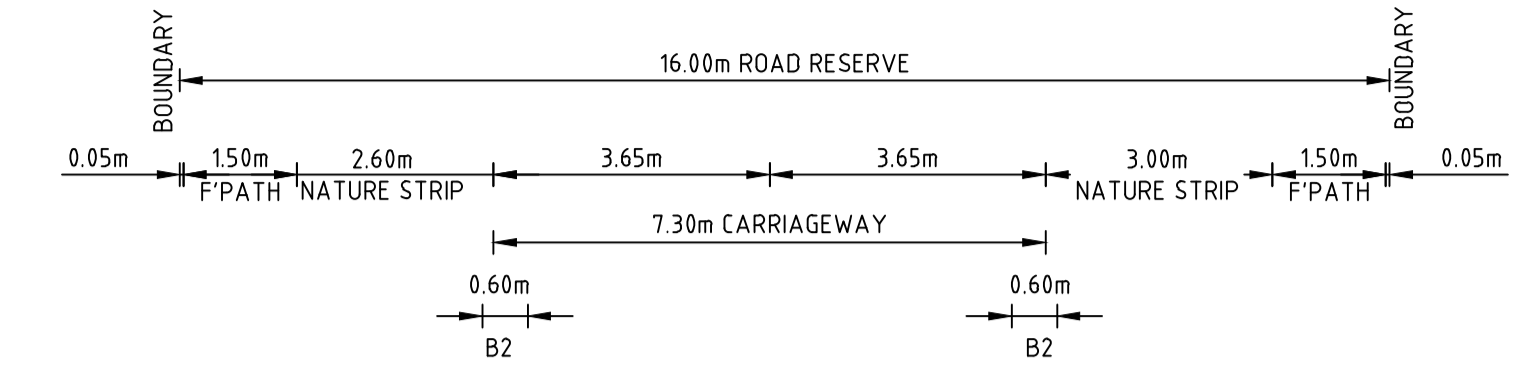
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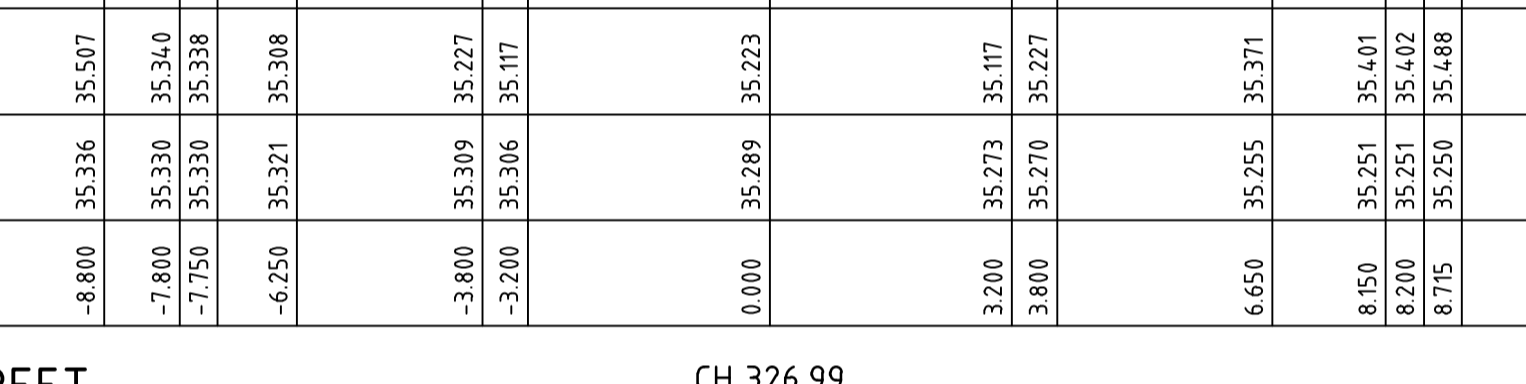
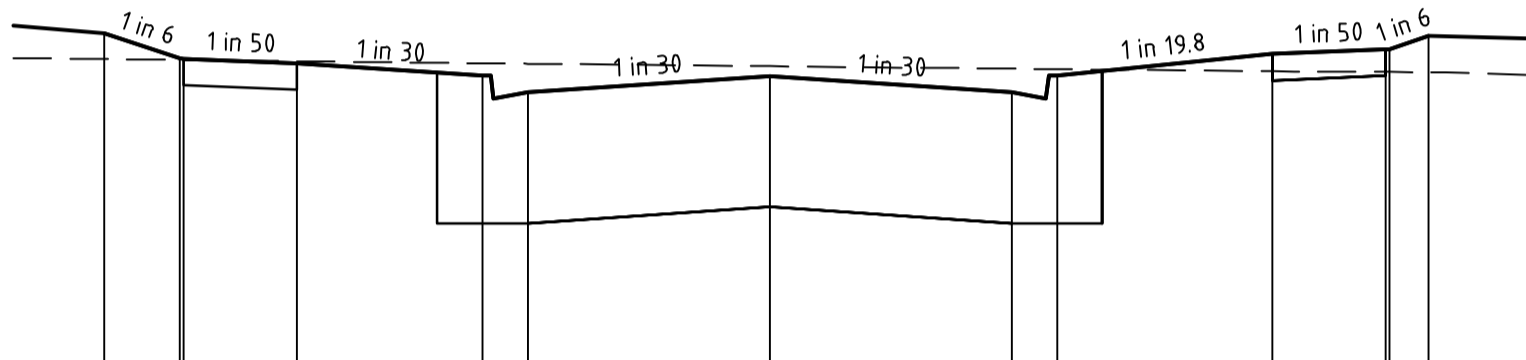
MAMBOURIN
STAGE 21
 ROAD AND DRAINAGE
 NURTURE STREET & MINTBUSH STREET LONG SECTIONS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD
PRELIMINARY Drg No: 309508CR301 Rev: A

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.

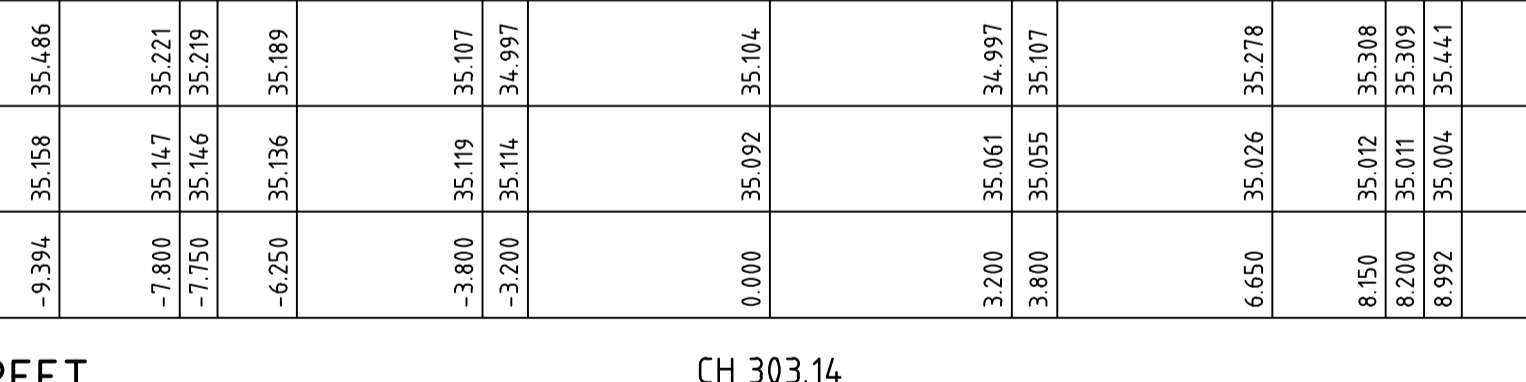
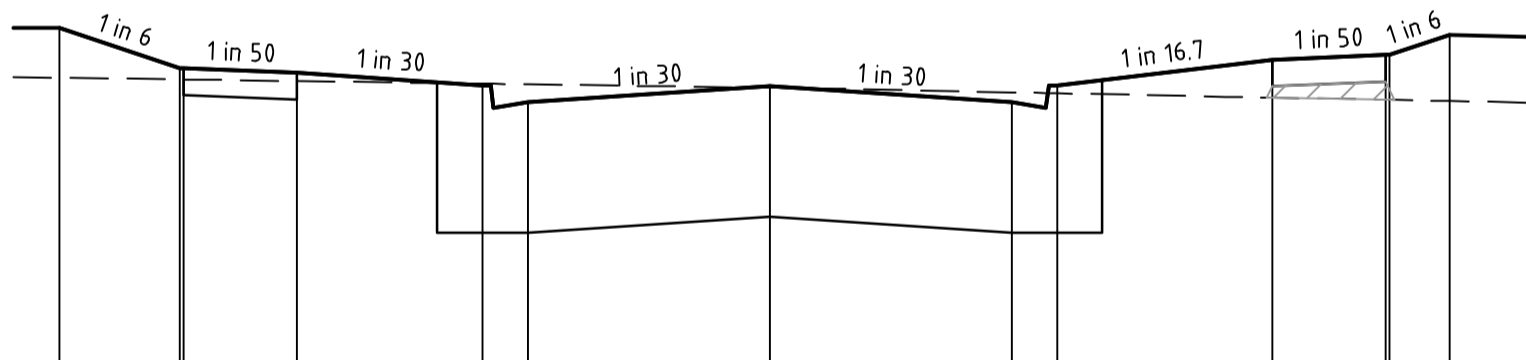
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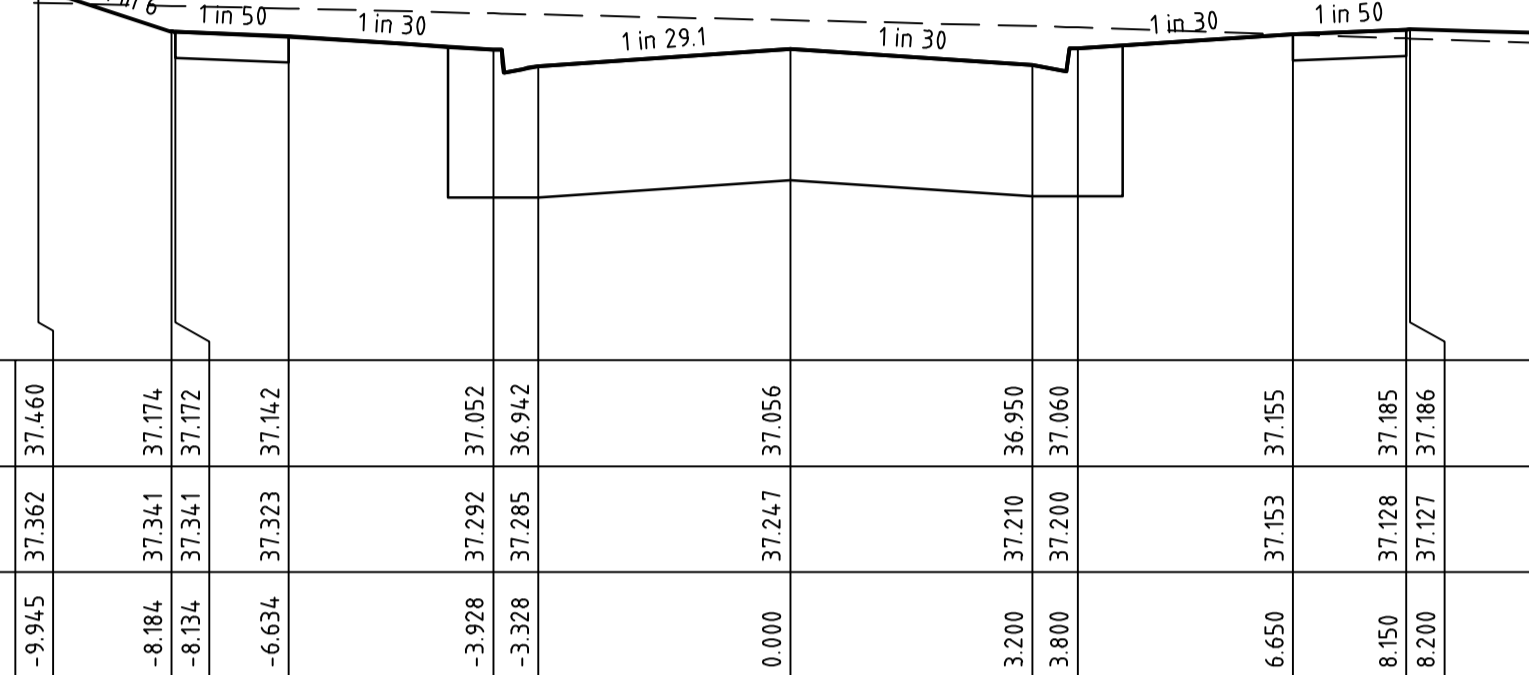
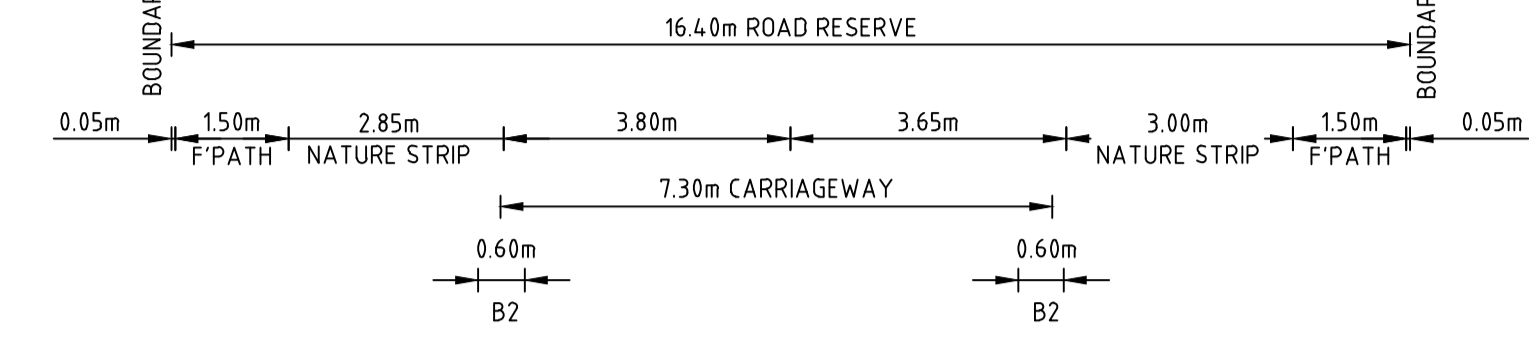
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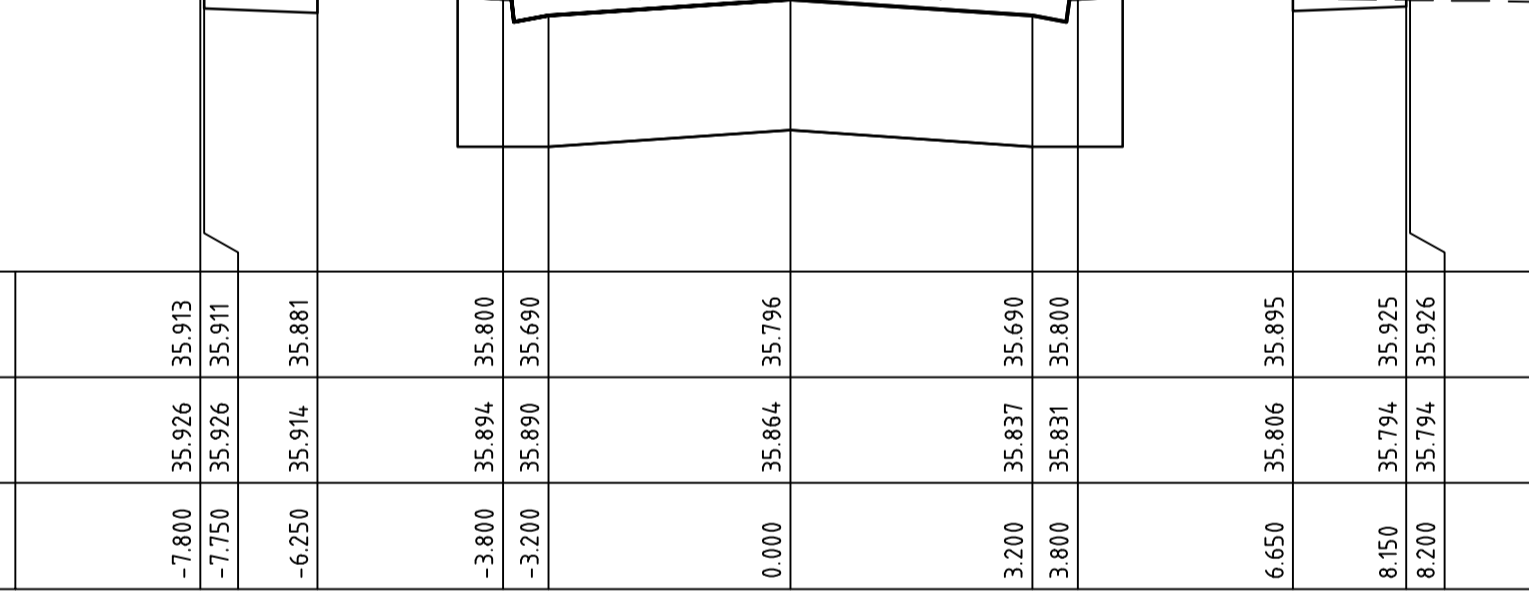
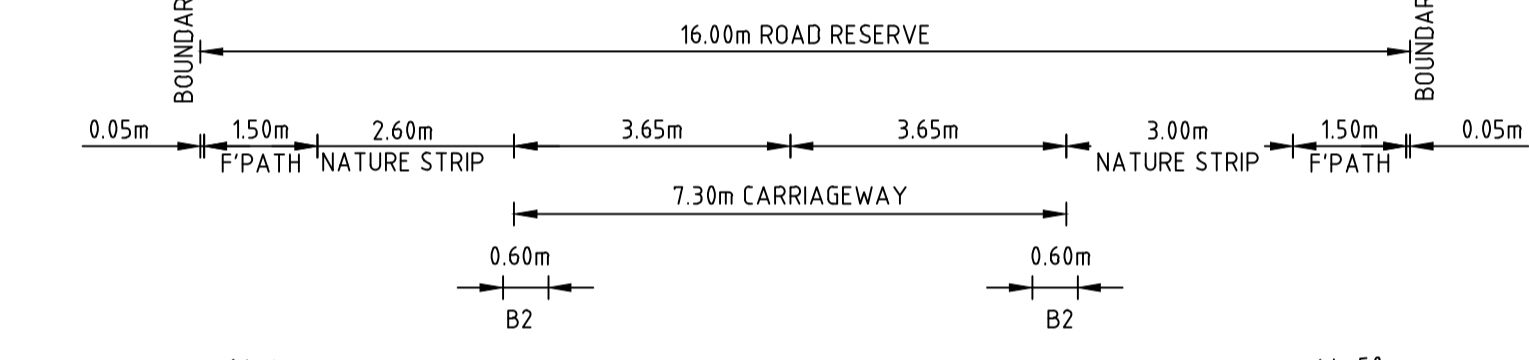
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RANGELAND STREET CH 303.14



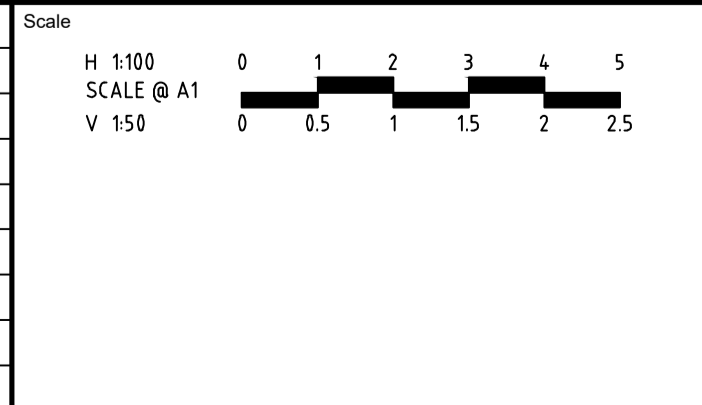
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RANGELAND STREET CH 371.42


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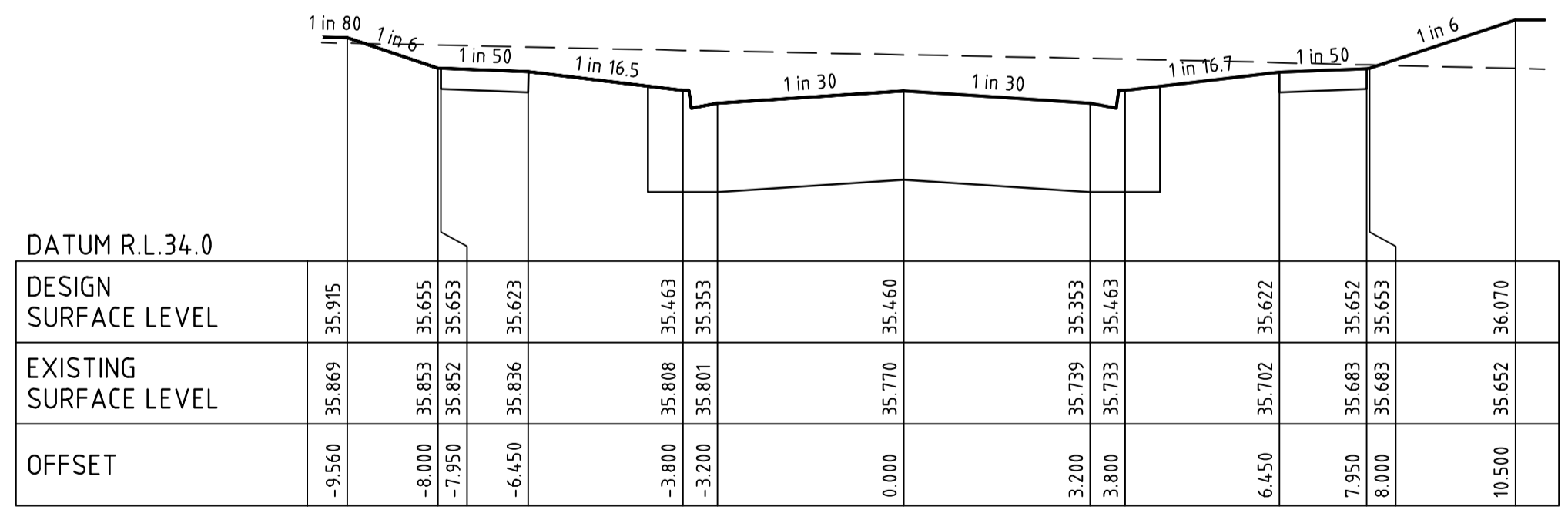
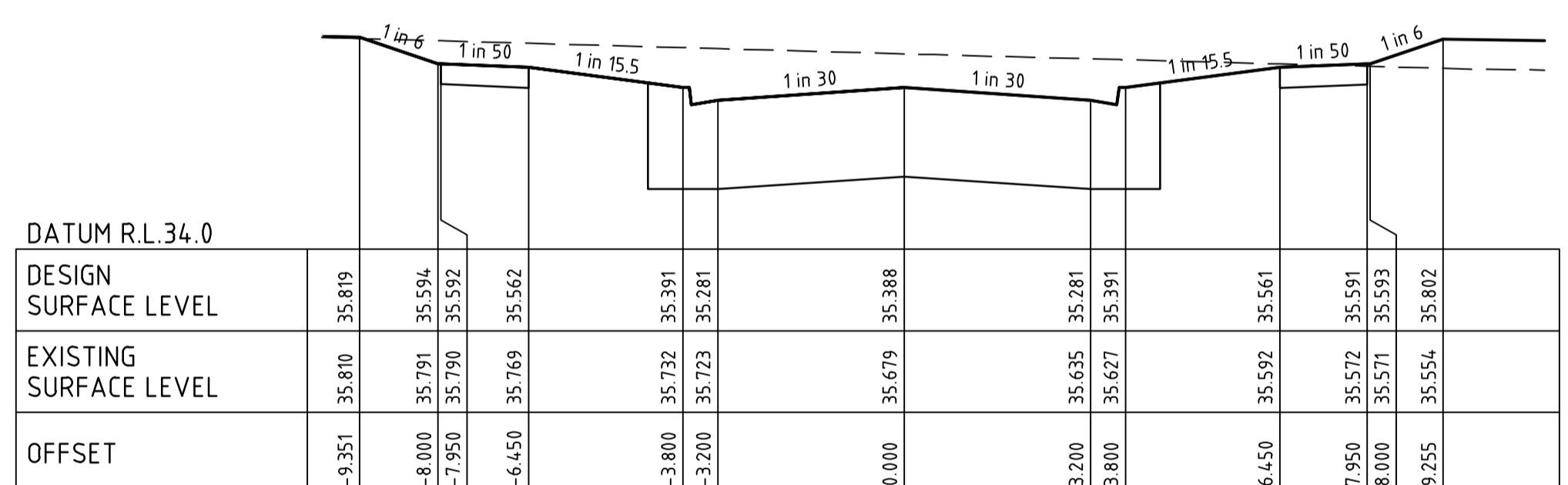
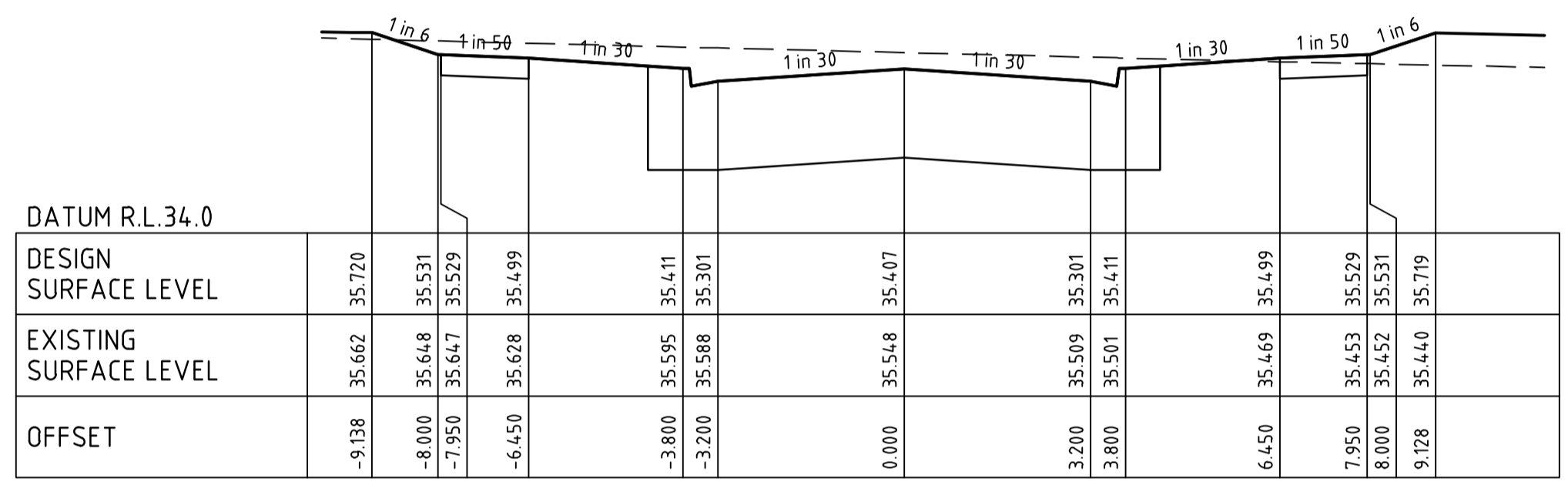
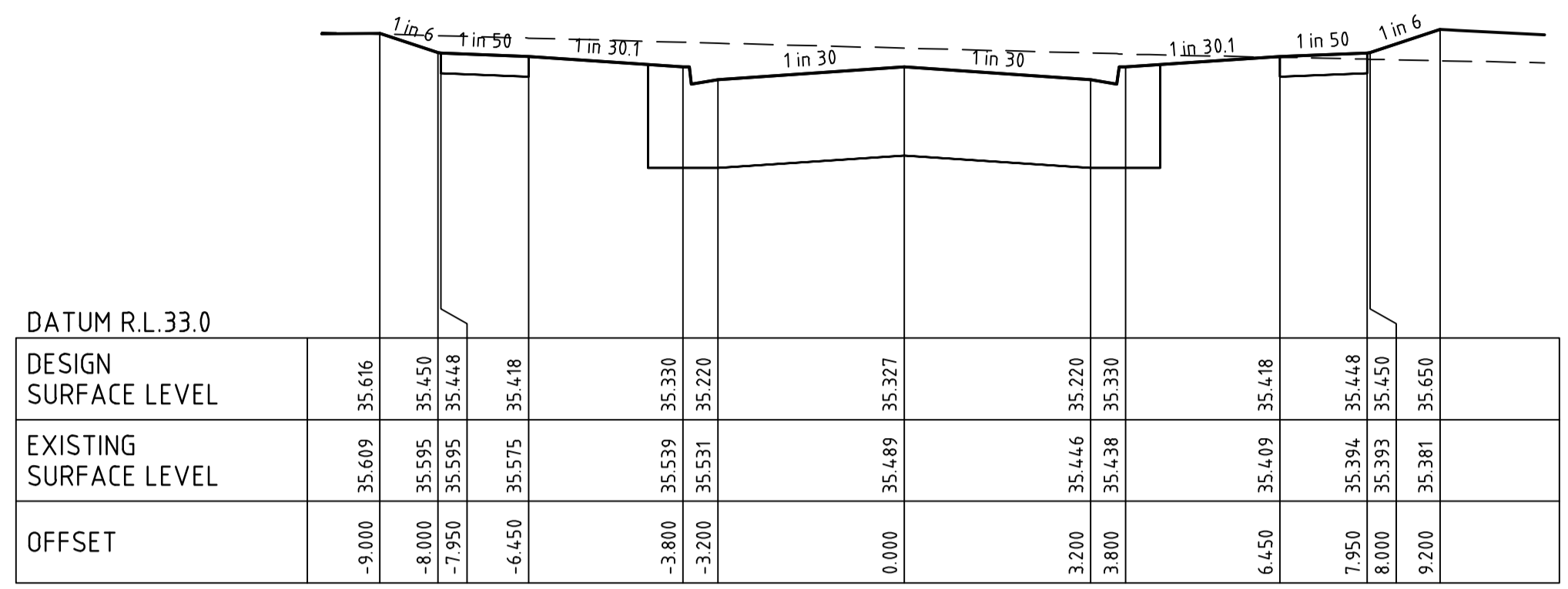
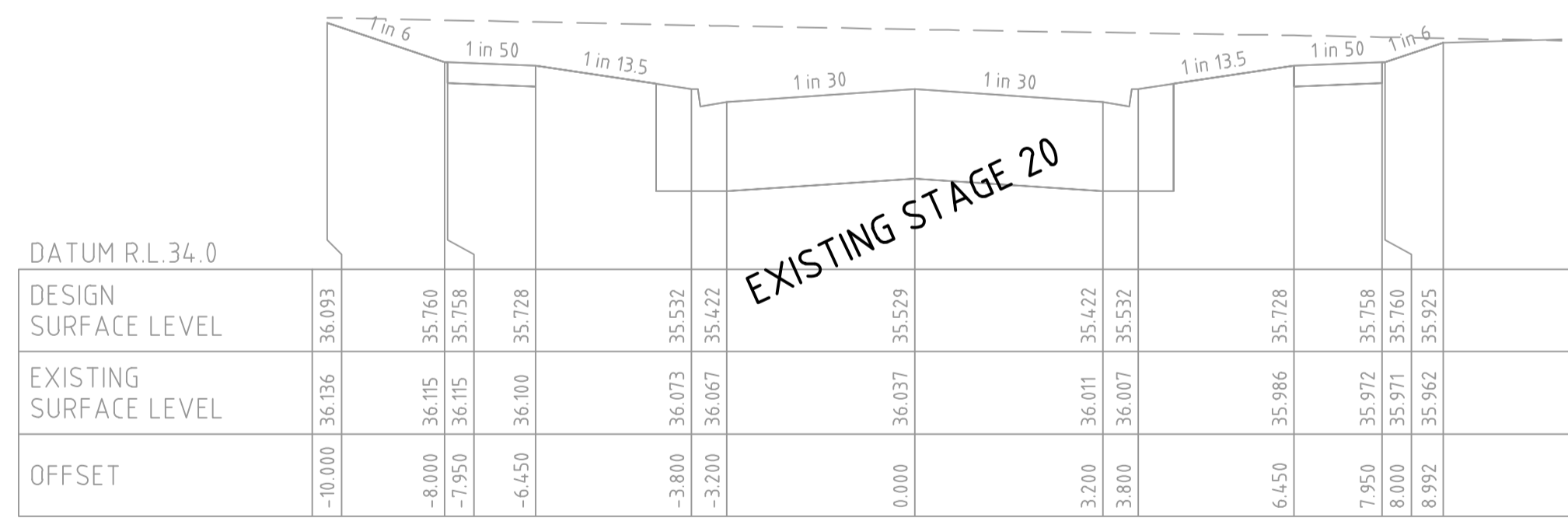
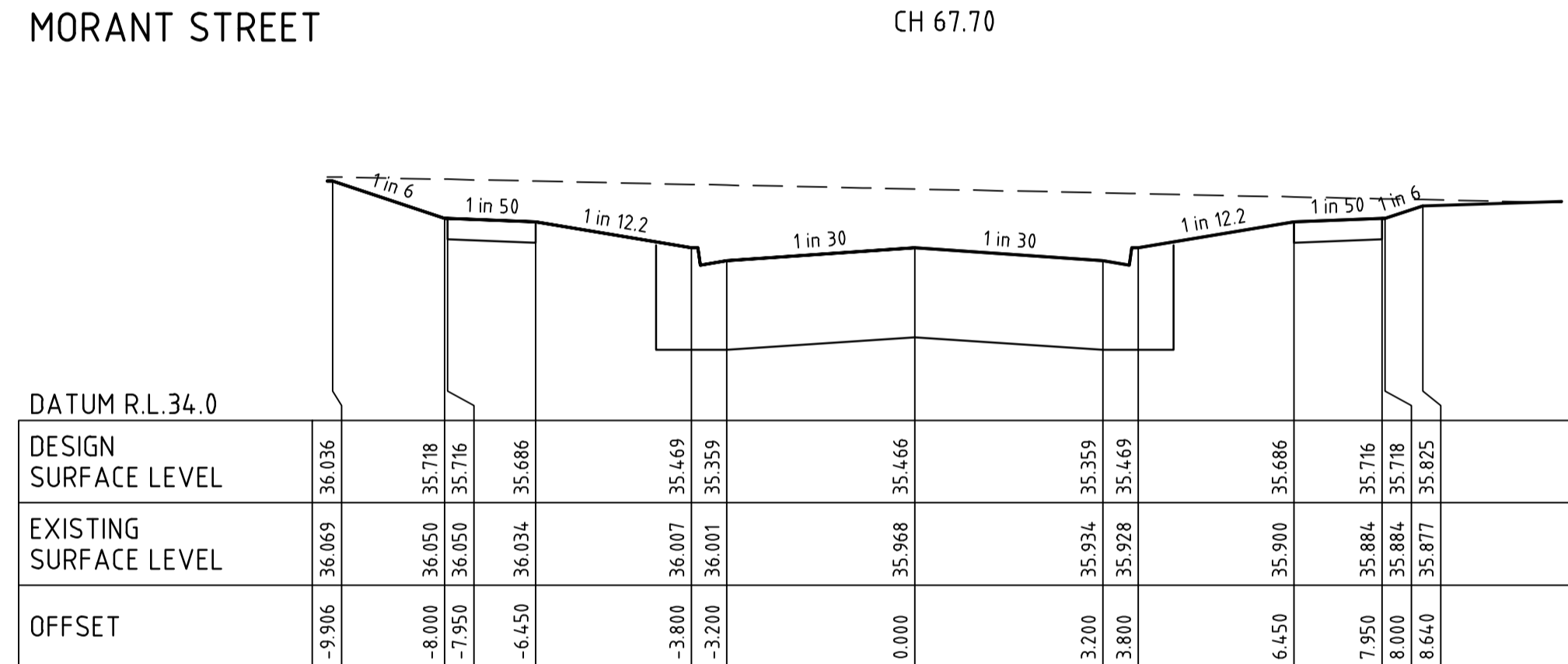
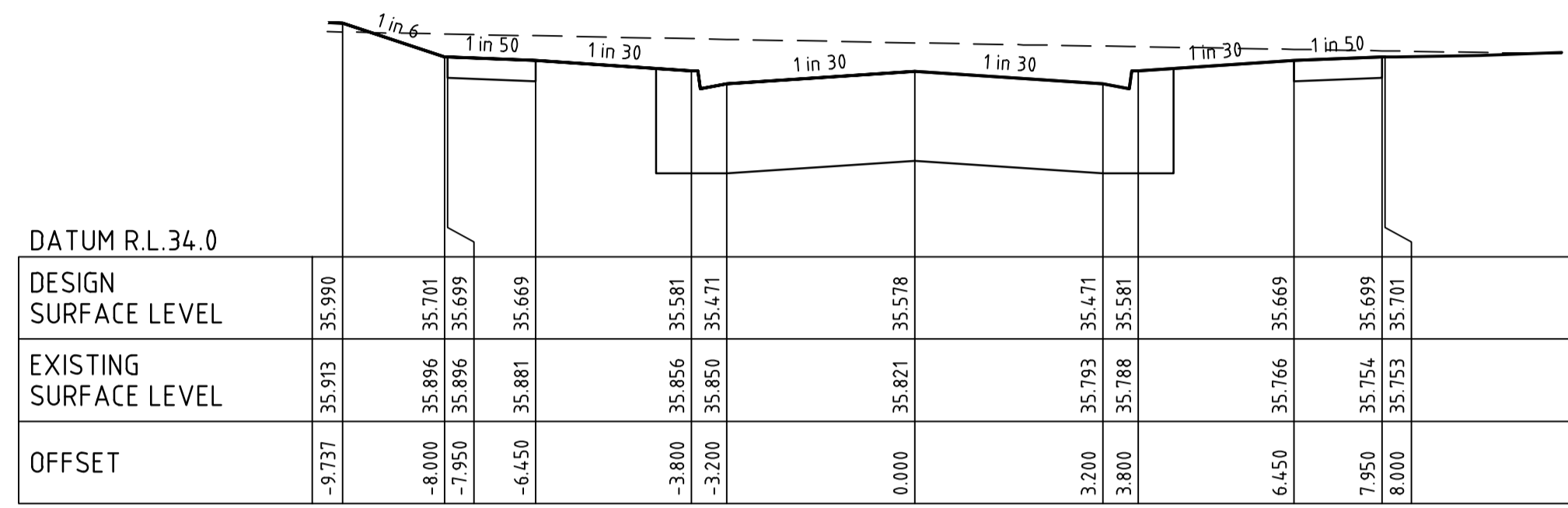
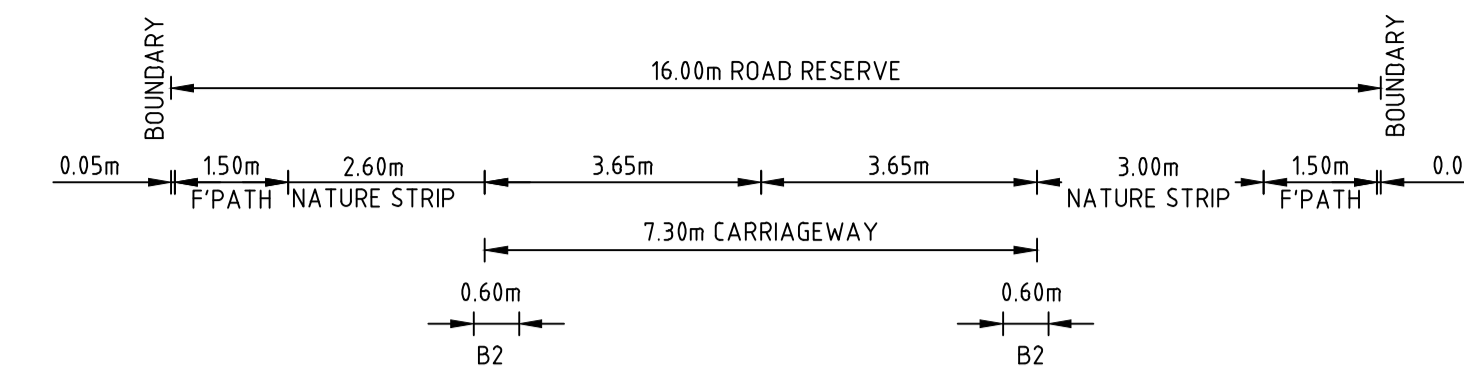
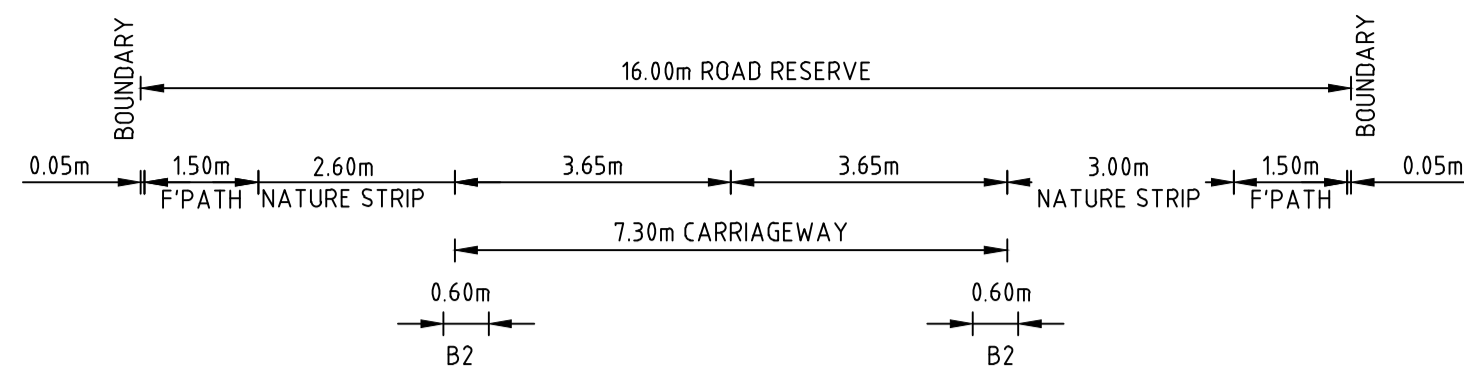

 Designed
 K. FEARN-WANNAN
 Authorised
 G. KOHLMAN


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 G. KOHLMAN
 Date
 03/03/23

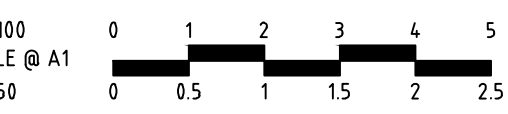

MAMBOURIN
STAGE 21
 ROAD AND DRAINAGE
 RANGELAND STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD
PRELIMINARY Drg No 309508CR400 Rev A

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



file name: 309508CR401.dwg, layout name: CR401, plotted by: Kieran Fearn-Wannan, file location: \\spiremedia\data\309508\work\ACAD\plot date: 13/03/2023, 2:52 PM Sheet 7 of 17 Sheets

Scale	H 1:100 SCALE @ A1 V 1:50		
			
			
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B	NATURE STRIP GRADES UPDATED	M.I.R.	03/01/23
A	PRELIMINARY ISSUE	M.I.R.	30/11/22
Rev	Amendments	Approved	Date



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 G. KOHLMAN



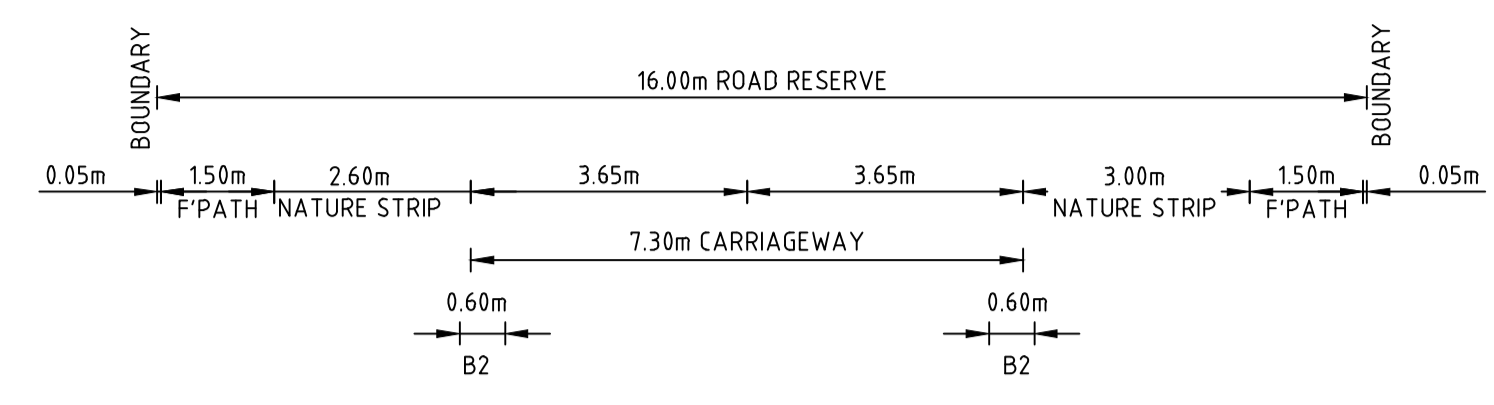
Checked
 G. KOHLMAN
 Date
 03/03/23

**MAMBOURIN
 STAGE 21**
 ROAD AND DRAINAGE
 MORANT STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD

PRELIMINARY Drg No **309508CR401** Rev **B**

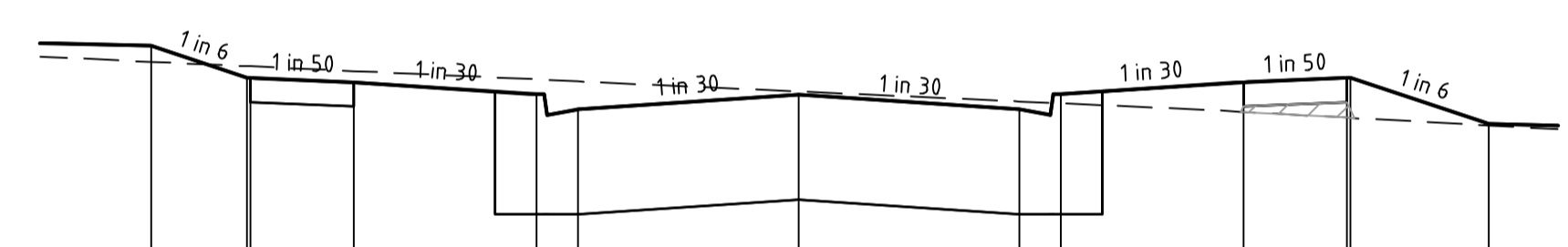
FILLING NOTE
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 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



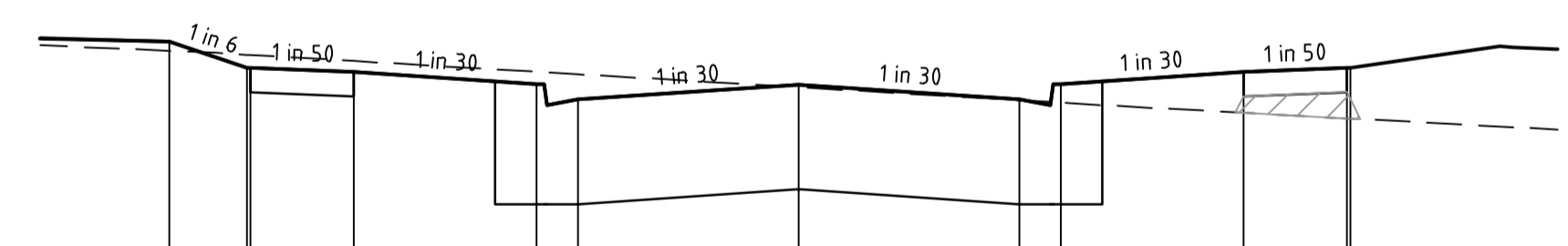
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DESIGN SURFACE LEVEL	37.613
EXISTING SURFACE LEVEL	37.458
OFFSET	-9.903

NURTURE STREET CH 86.72



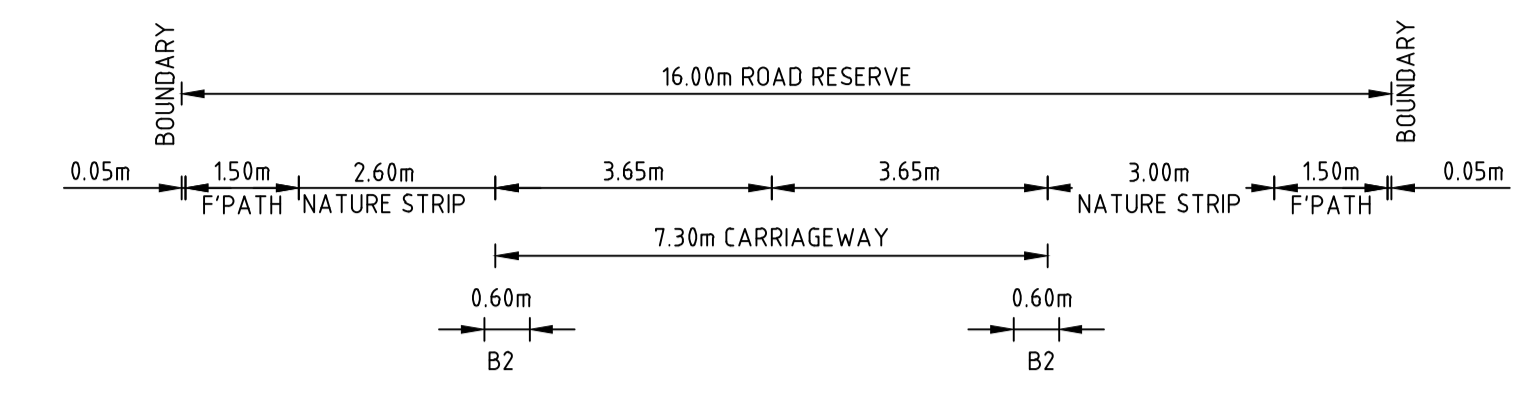
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DESIGN SURFACE LEVEL	37.739
EXISTING SURFACE LEVEL	37.624
OFFSET	-9.388

NURTURE STREET CH 60.22



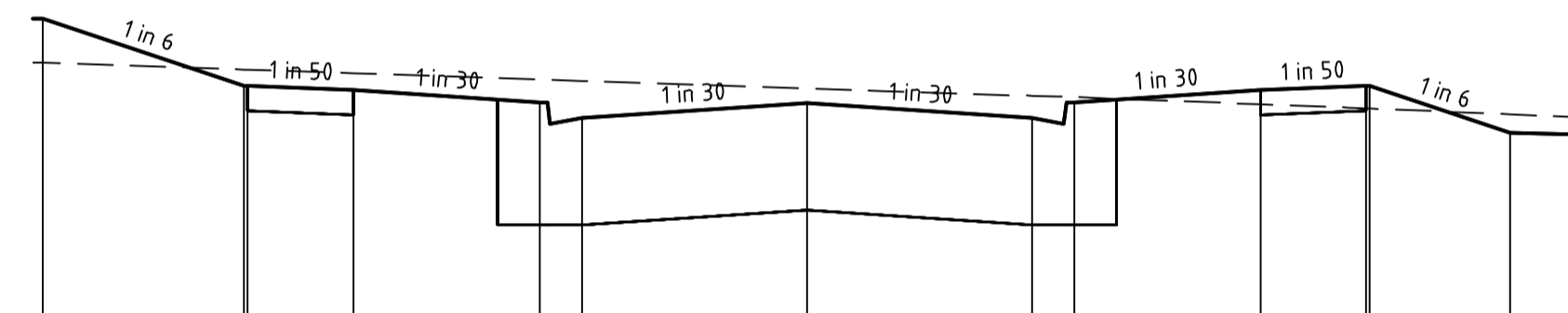
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EXISTING SURFACE LEVEL	37.845
OFFSET	-9.132

NURTURE STREET CH 33.40



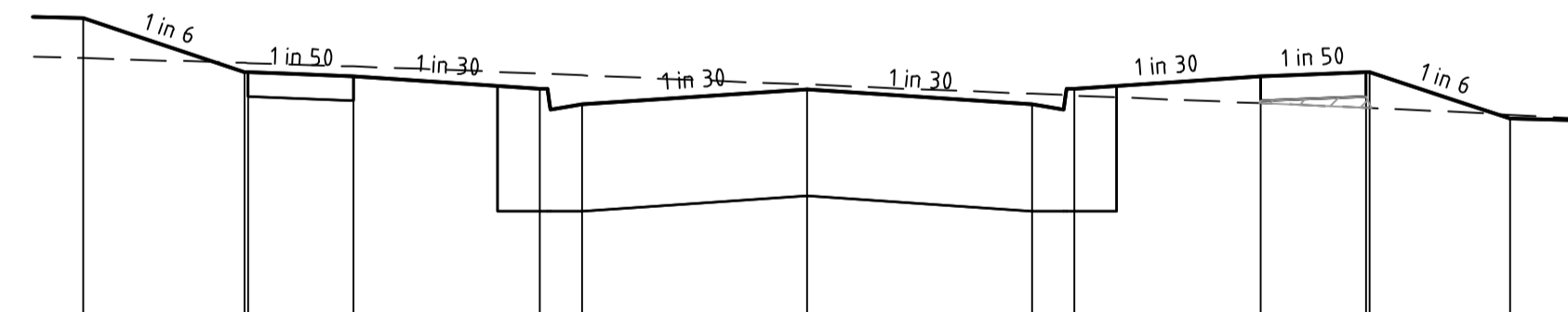
DATUM R.L.34.0	
DESIGN SURFACE LEVEL	36.434
EXISTING SURFACE LEVEL	36.477
OFFSET	-9.038

NURTURE STREET CH 203.70



DATUM R.L.35.0	
DESIGN SURFACE LEVEL	37.378
EXISTING SURFACE LEVEL	37.064
OFFSET	-10.865

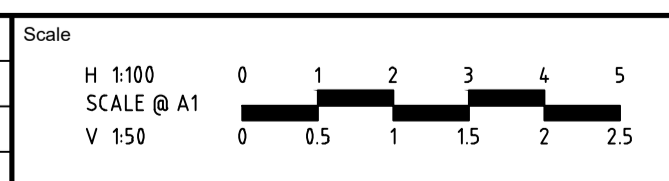
NURTURE STREET CH 136.12



DATUM R.L.35.0	
DESIGN SURFACE LEVEL	37.518
EXISTING SURFACE LEVEL	37.235
OFFSET	-10.291

NURTURE STREET CH 106.63

file name: 309508CR402.dwg, layout name: CR402, plotted by: Kirsten Fearn-Wannan, file location: \\spire.mediadata.com.au\309508\plan\ACAD\plot\date 03/03/2023, 2:52 PM Sheet 8 of 17 Sheets



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 Authorised
G. KOHLMAN




Checked
G. KOHLMAN
 Date
03/03/23

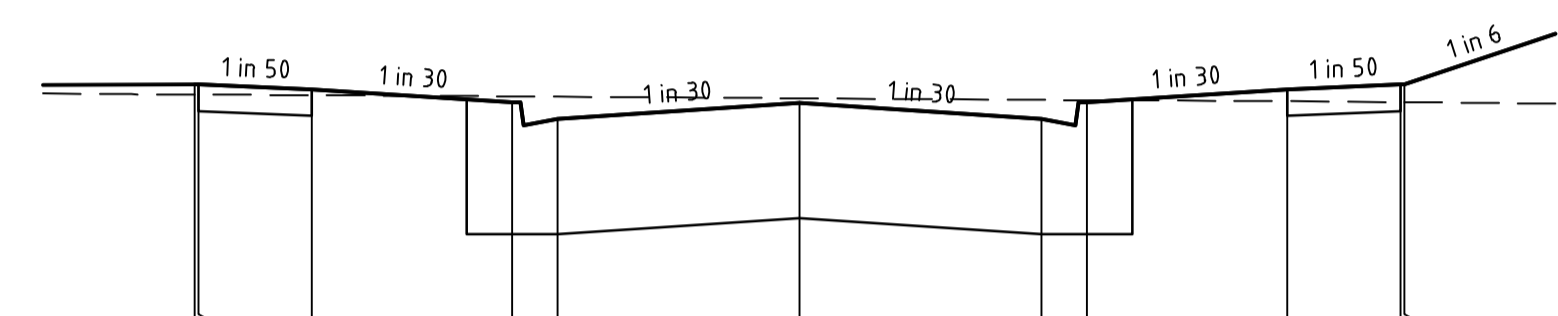
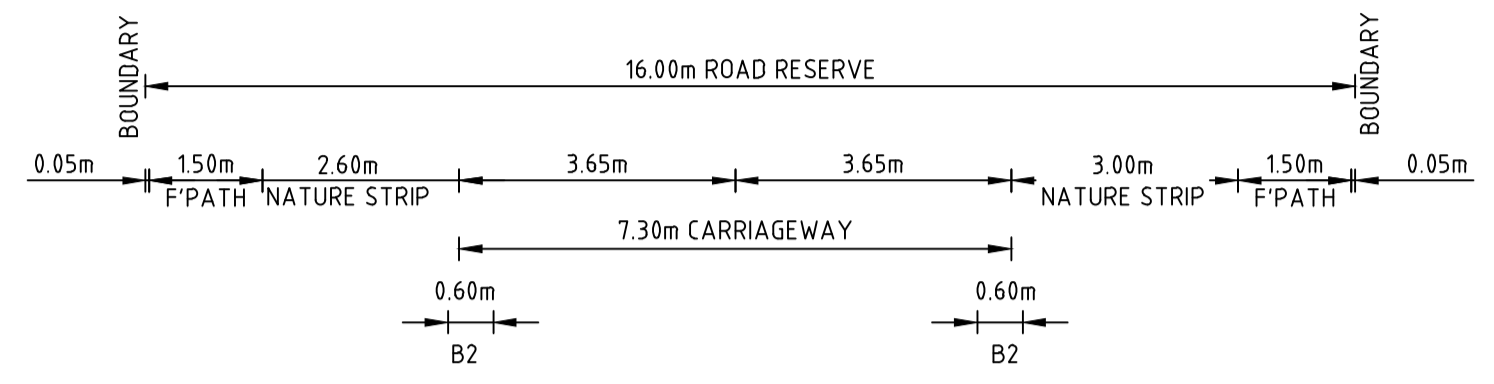
MAMBOURIN
STAGE 21
 ROAD AND DRAINAGE
 NURTURE STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD

PRELIMINARY Drg No **309508CR402** Rev **A**

Rev	Description	MI/R	Date
A	PRELIMINARY ISSUE	MI/R	30/11/22
	Amendments	Approved	

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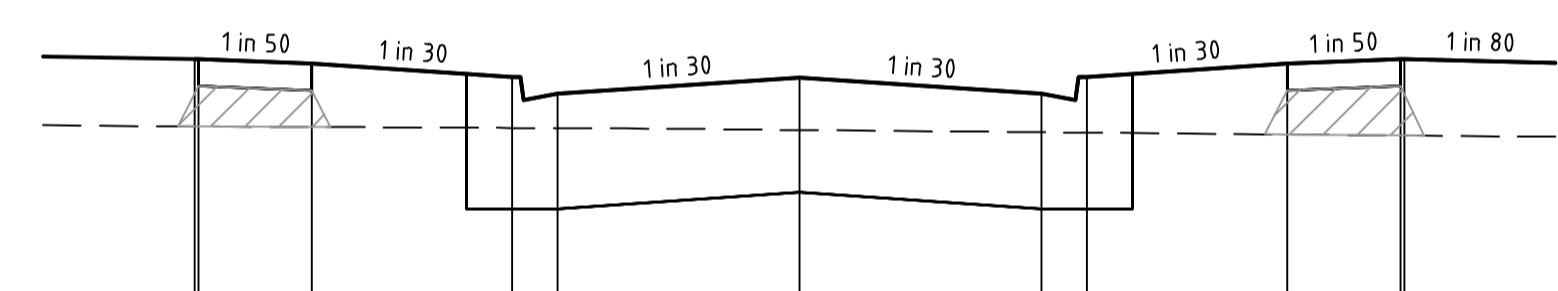
 STRUCTURAL FILL IN ACCORDANCE WITH AS3798-2007, LEVEL 1



DATUM R.L. 34.0

DESIGN SURFACE LEVEL	-8.000	35.704	35.771																
EXISTING SURFACE LEVEL	-7.950	35.704	35.769																
OFFSET		-6.450	35.700																

MINTBUSH STREET CH 144.81



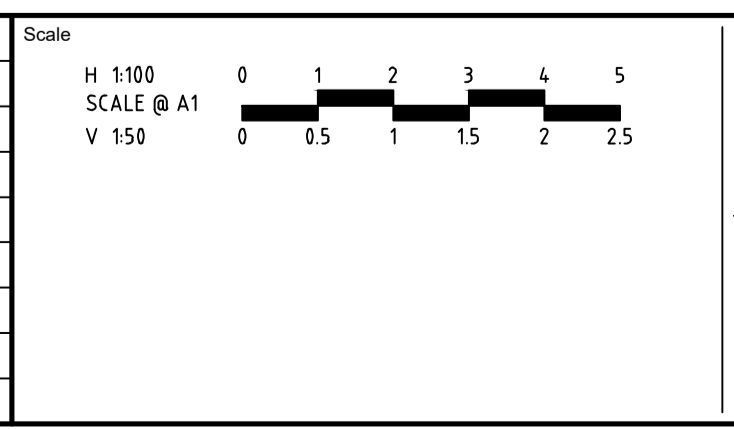
DATUM R.L. 34.0

DESIGN SURFACE LEVEL	-8.000	35.526	35.973																
EXISTING SURFACE LEVEL	-7.950	35.526	35.971																
OFFSET		-6.450	35.523																

MINTBUSH STREET CH 120.61

file name: 309508CR403.dwg, layout name: CR403, plotted by: Kirsten Fearn-Wannan, file location: \\spire\media\data\309508\dwg\309508.dwg, plot date: 03/03/2023, 2:52 PM, Sheet: 9 of 17 Sheets

Scale	H 1:100	V 1:50	
Scale @ A1	0 1 2 3 4 5	0 0.5 1 1.5 2 2.5	
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A	PRELIMINARY ISSUE	MI.R	30/11/22
Rev	Amendments	Approved	Date

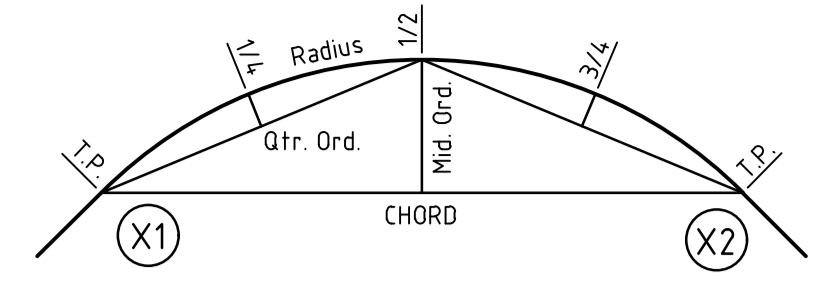
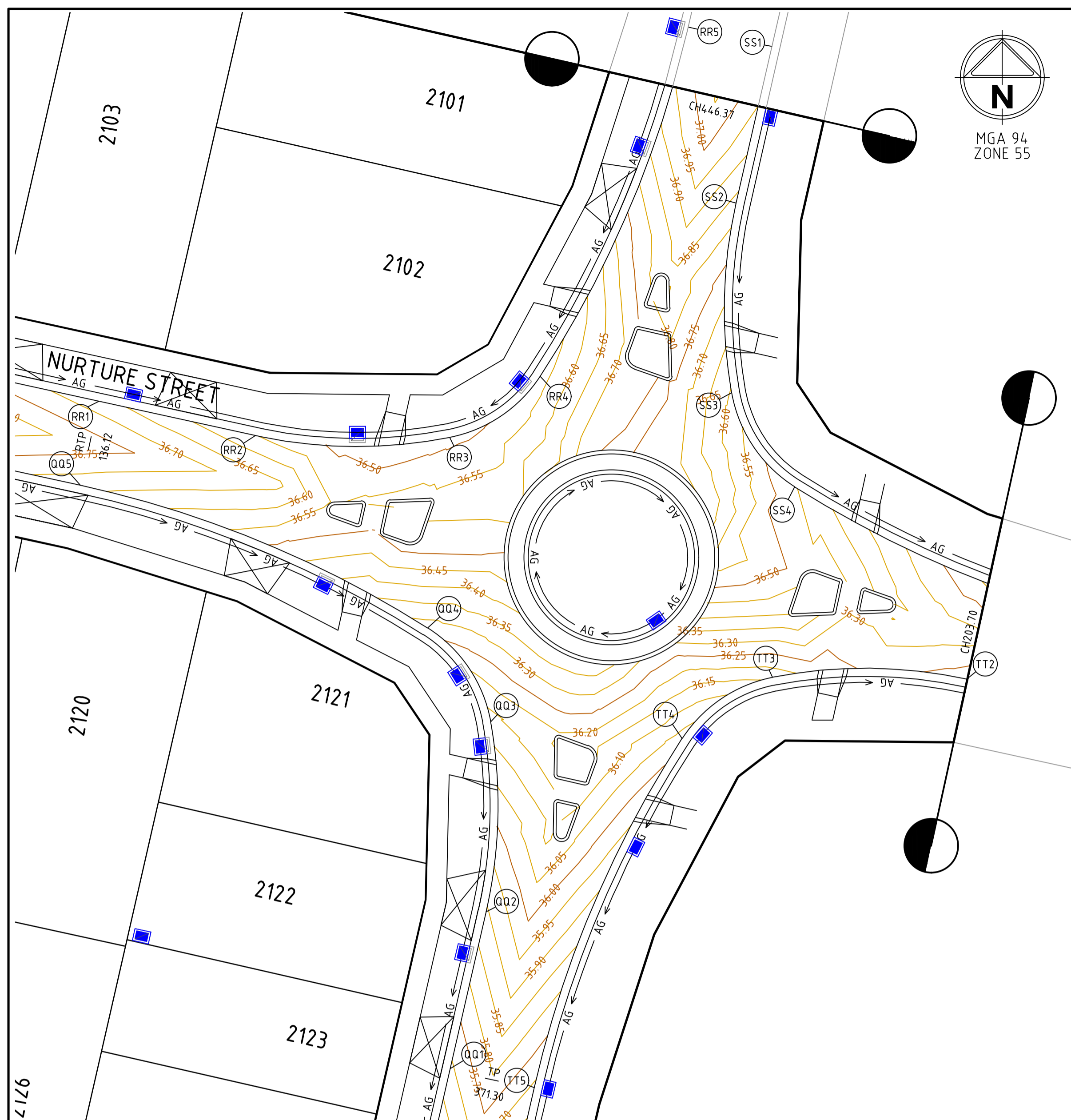


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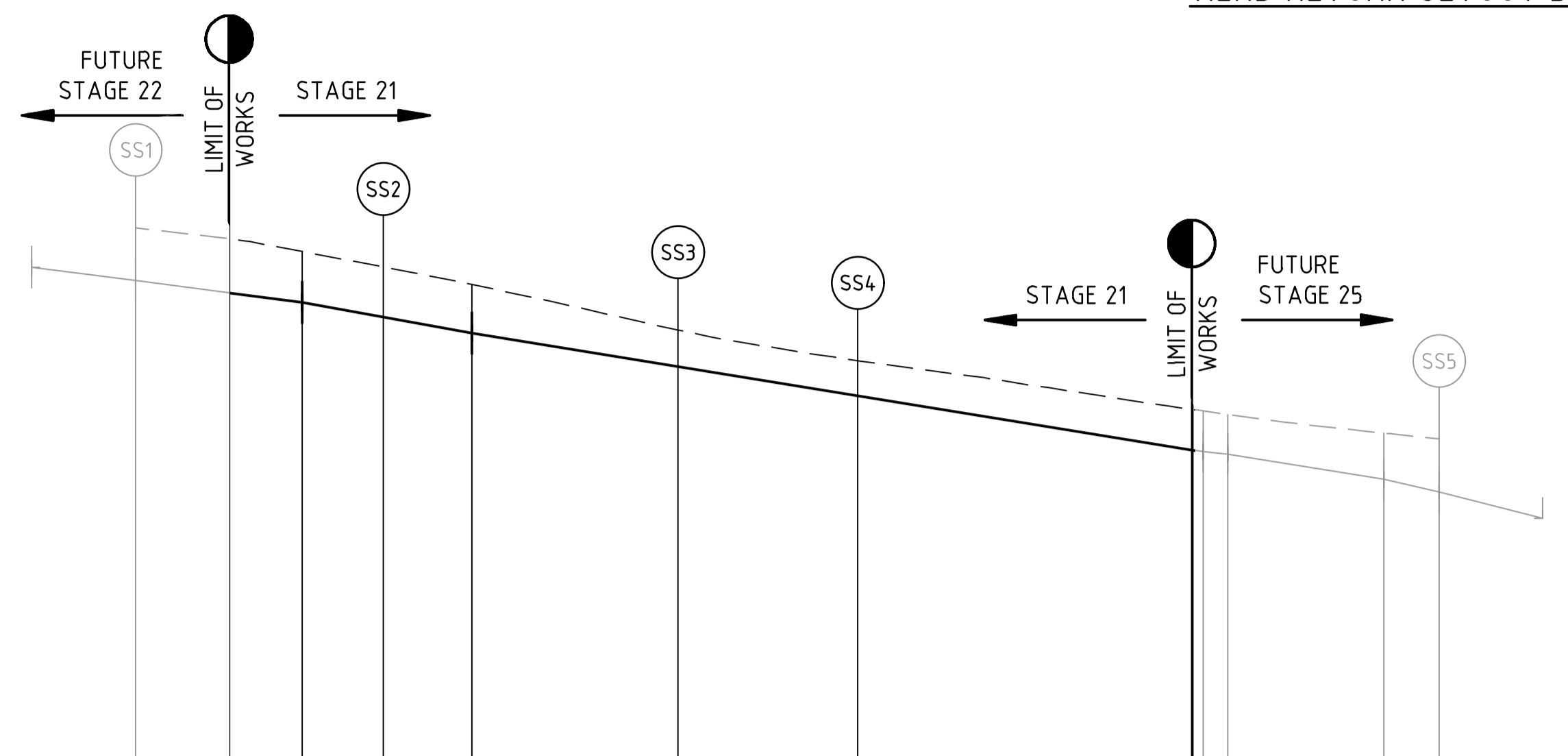
FRASERS PROPERTY
 Mambourin
 Designed
 K. FEARN-WANNAN
 Authorised
 G. KOHLMAN

Checked
 G. KOHLMAN
 Date
 03/03/23

MAMBOURIN
STAGE 21
 ROAD AND DRAINAGE
 MINTBUSH STREET CROSS SECTIONS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD
PRELIMINARY Dwg No **309508CR403** Rev **A**



KERB RETURN SETOUT DETAIL



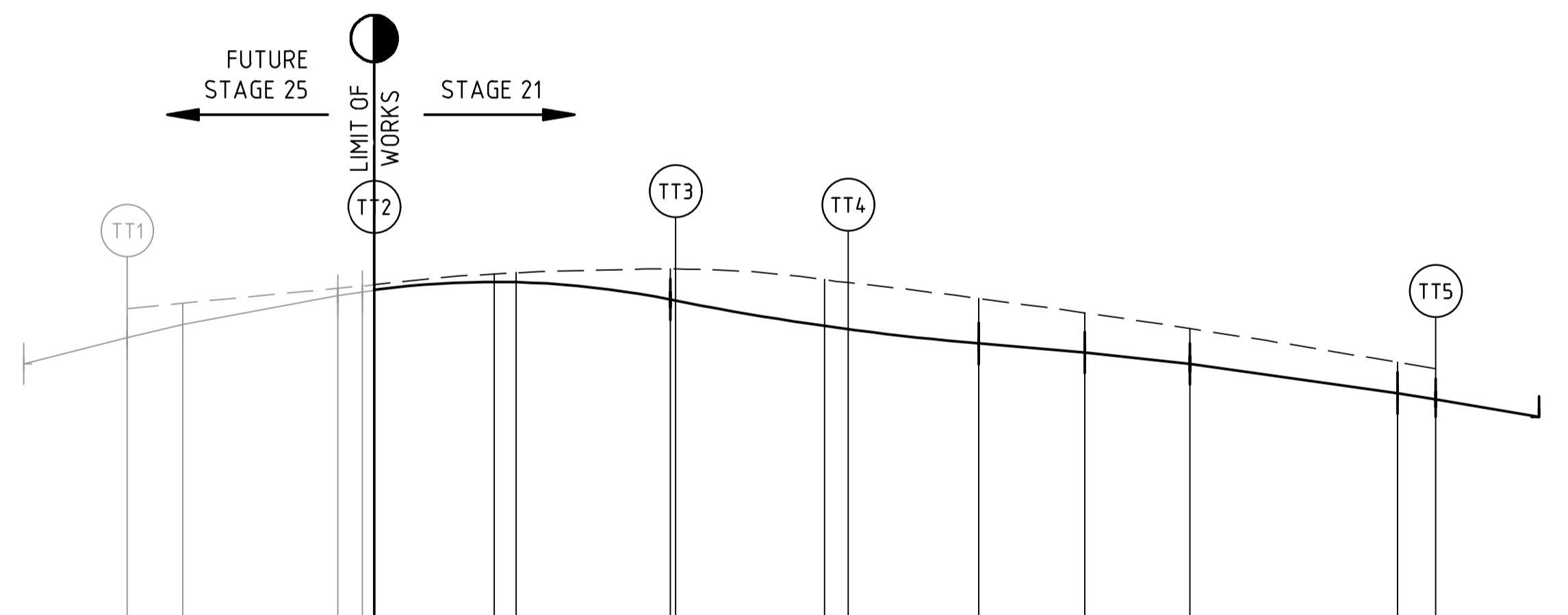
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 34.0

DESIGN LEVEL	0.000	37.009	36.950	36.904	36.834	36.756	36.595	36.454	36.192	36.183	36.170	36.050	35.988
CHAINAGE			4.544	8.950	11.966	16.251	26.192	34.864	51.004	51.556	52.739	60.266	62.933

KERB SS



VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 34.0

DESIGN LEVEL	0.000	35.988	36.051	36.192	36.209	36.218	36.257	36.256	36.172	36.167	36.045	36.029	35.960	35.916	35.862	35.720	35.690
CHAINAGE			2.667	10.167	11.339	11.936	17.727	18.789	26.240	26.497	33.690	34.837	41.140	46.268	51.350	61.379	63.213

KERB TT

ALIGNMENT SS

POINT NO	EASTING	NORTHING	RL
SS1	289334.264	5803895.675	37.009
SS2	289331.600	5803884.009	36.834
1/4	289330.983	5803880.508	36.769
1/2	289330.720	5803876.963	36.710
3/4	289330.814	5803873.409	36.653
SS3	289331.262	5803869.882	36.595
1/4	289331.862	5803867.803	36.560
1/2	289332.876	5803865.891	36.524
3/4	289334.263	5803864.230	36.489
SS4	289335.962	5803862.889	36.454
1/4	289342.047	5803859.400	36.340
1/2	289348.414	5803856.454	36.226
3/4	289355.013	5803854.075	36.120
SS5	289361.794	5803852.279	35.988

ALIGNMENT TT

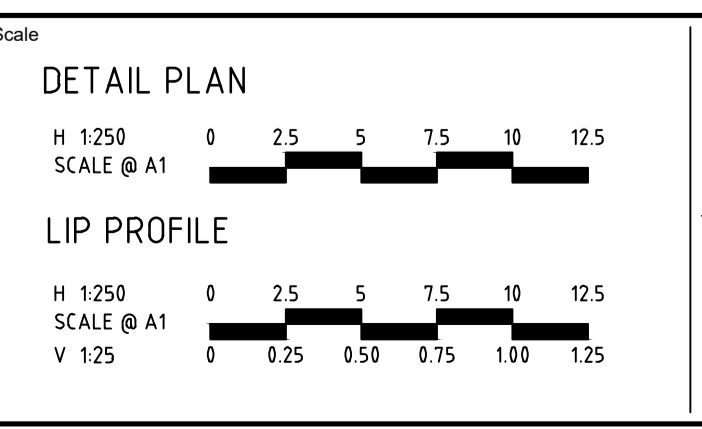
POINT NO	EASTING	NORTHING	RL
TT1	289360.427	5803846.026	35.988
TT2	289348.767	5803848.576	36.218
1/4	289345.177	5803849.170	36.252
1/2	289341.545	5803849.393	36.255
3/4	289337.909	5803849.242	36.226
TT3	289334.308	5803848.719	36.167
1/4	289332.317	5803848.114	36.127
1/2	289330.485	5803847.125	36.091
3/4	289328.885	5803845.794	36.058
TT4	289327.581	5803844.171	36.029
1/4	289323.977	5803838.064	35.953
1/2	289320.924	5803831.663	35.887
3/4	289318.447	5803825.018	35.794
TT5	289316.565	5803818.181	35.690

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
SS2-SS3	35.450	14.226	14.131	0.711	-0.178
SS3-SS4	10.450	8.672	8.425	0.887	-0.224
SS4-SS5	80.450	28.069	27.927	1.221	-0.306

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
TT2-TT3	35.450	14.562	14.460	0.745	-0.187
TT3-TT4	10.450	8.340	8.120	0.821	-0.207
TT4-TT5	80.450	28.375	28.229	1.248	-0.313

file name: 309508CR500.dwg; layout name: CR500; created by: Kieran Fearn-Wannan; file location: G:\301309508\Drawings\ALCA\Plot date: 03/03/2023 2:52 PM; sheet: 10 of 17 sheets

Rev	Description	M.I.R.	Date
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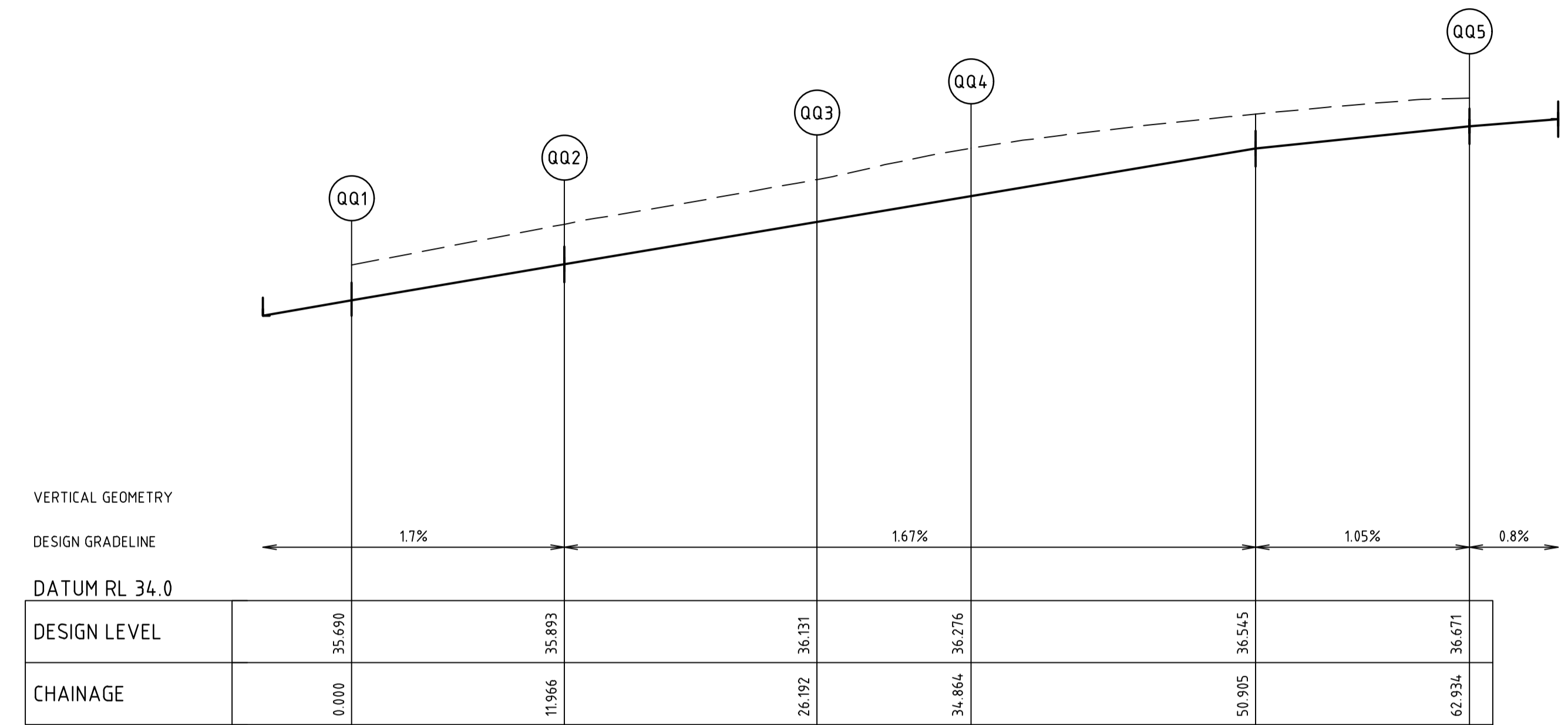
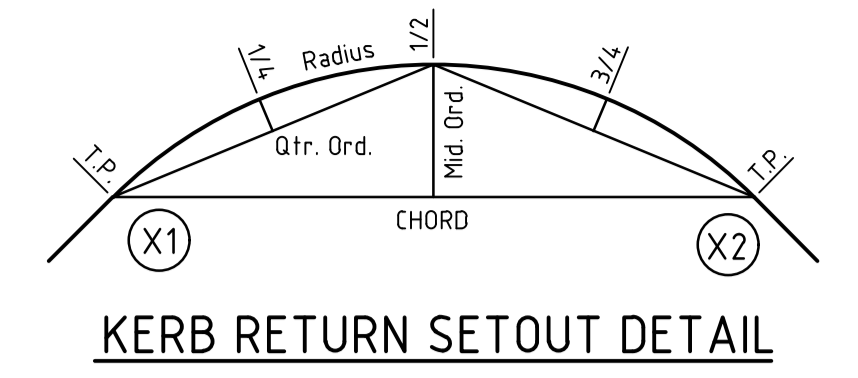
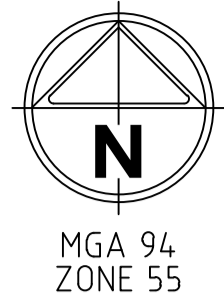
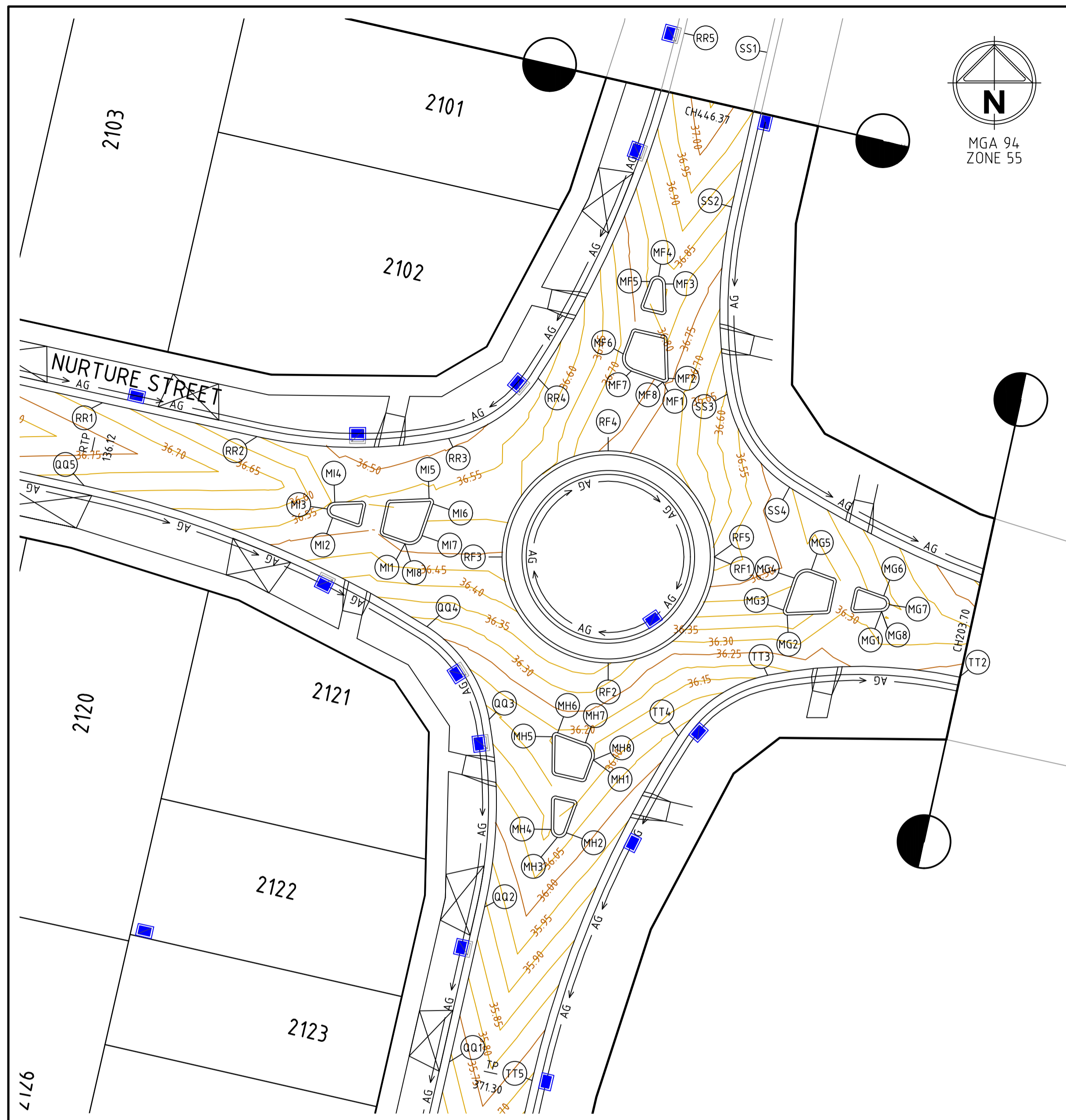
Designed
K. FEARN-WANNAN
Authorised
G. KOHLMAN



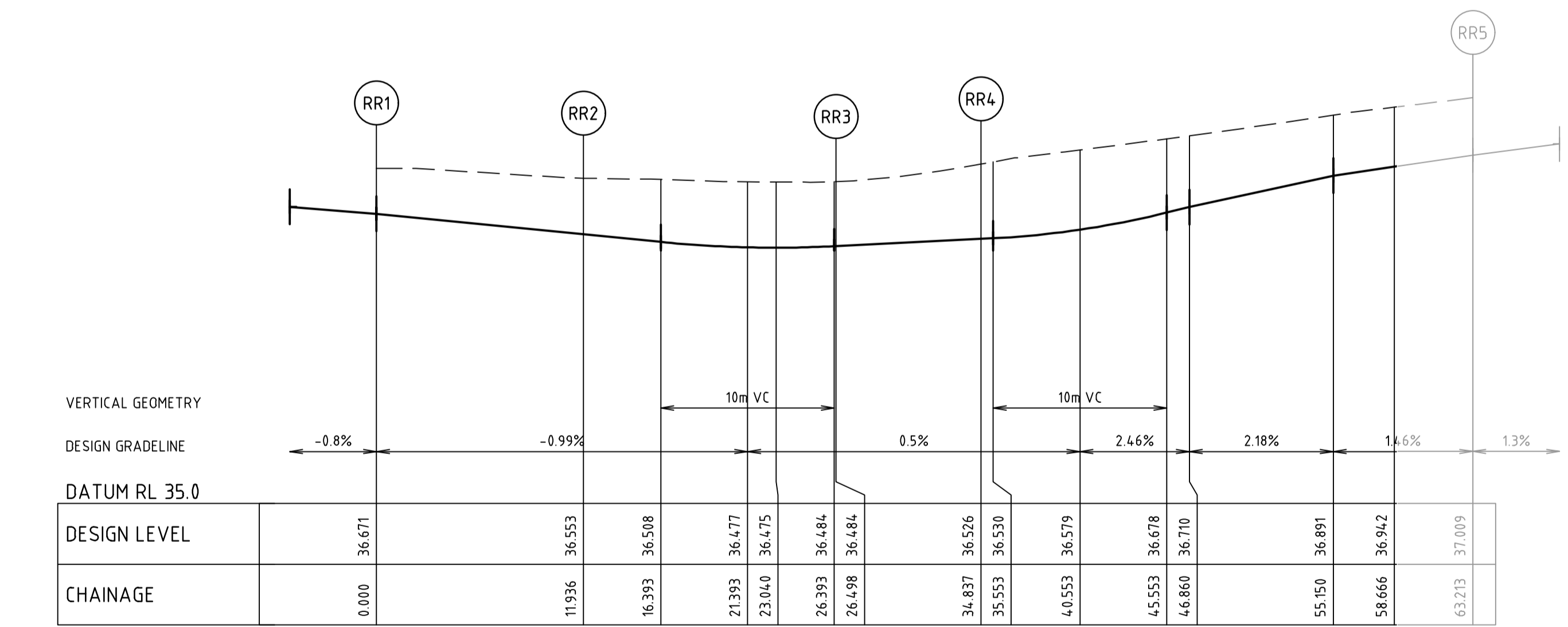
Checked
G. KOHLMAN
Date
03/03/23

MAMBOURIN
STAGE 21
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 1
WYNDHAM CITY COUNCIL
FRASER PROPERTY LTD

PRELIMINARY Dwg No **309508CR500** Rev **A**



KERB QQ



KERB RR

ALIGNMENT RR

POINT NO	EASTING	NORTHING	RL
RR1	289284.163	5803869.255	36.671
RR2	289295.823	5803866.705	36.553
1/4	289299.413	5803866.111	36.516
1/2	289303.045	5803865.888	36.480
3/4	289306.681	5803866.039	36.466
RR3	289310.282	5803866.562	36.484
1/4	289312.274	5803867.167	36.495
1/2	289314.105	5803868.156	36.505
3/4	289315.705	5803869.487	36.516
RR4	289317.009	5803871.110	36.526
1/4	289320.613	5803877.217	36.601
1/2	289323.666	5803883.618	36.757
3/4	289326.143	5803890.263	36.905
RR5	289328.025	5803897.100	37.009

ALIGNMENT QQ

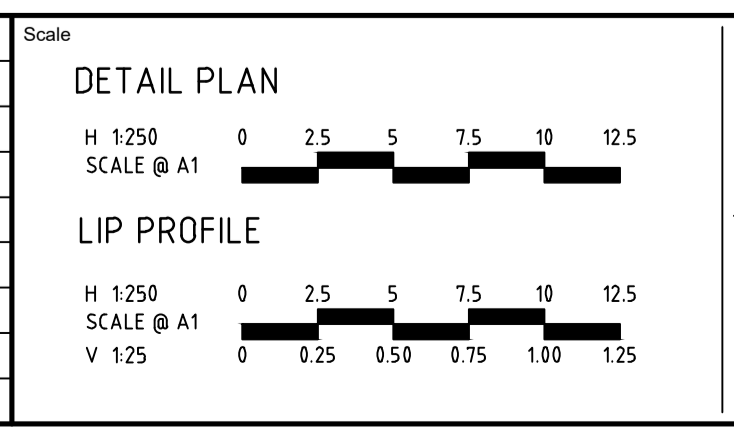
POINT NO	EASTING	NORTHING	RL
QQ1	289310.326	5803819.606	35.690
QQ2	289312.990	5803831.272	35.893
1/4	289313.607	5803834.773	35.953
1/2	289313.870	5803838.318	36.012
3/4	289313.777	5803841.872	36.072
QQ3	289313.328	5803845.399	36.131
1/4	289312.729	5803847.478	36.168
1/2	289311.714	5803849.390	36.204
3/4	289310.328	5803851.051	36.240
QQ4	289308.628	5803852.392	36.276
1/4	289302.543	5803855.881	36.394
1/2	289296.176	5803858.827	36.511
3/4	289289.577	5803861.206	36.597
QQ5	289282.796	5803863.002	36.671

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
RR2-RR3	35.450	14.562	14.460	0.745	-0.187
RR3-RR4	10.450	8.340	8.120	0.821	-0.207
RR4-RR5	80.450	28.375	28.229	1.248	-0.313

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
QQ2-QQ3	35.450	14.226	14.131	0.711	-0.178
QQ3-QQ4	10.450	8.672	8.425	0.887	-0.224
QQ4-QQ5	80.450	28.069	27.927	1.221	-0.306

file name: 309508CR501.dwg; layout name: CR501; plotted by: Kirsten Fearn-Wannan; file location: \\spire\media\data\309508CR501\309508CR501.dwg; plot date: 03/03/2023; 2:53 PM; Sheet: 11 of 17 Sheets

Rev	Description	Approved	Date
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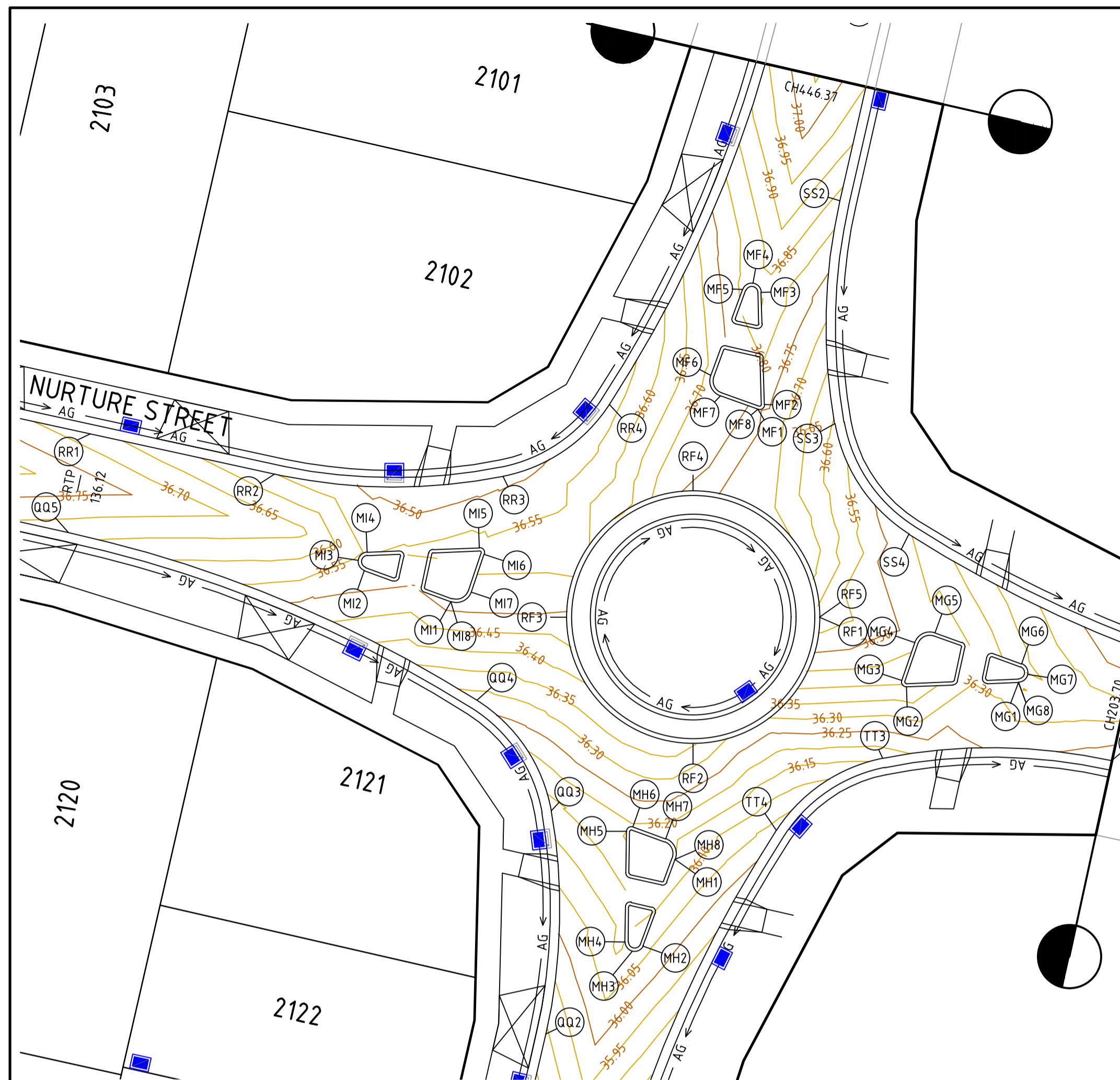
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Designed
K. FEARN-WANNAN
Authorised
G. KOHLMAN

Checked
G. KOHLMAN
Date
03/03/23

MAMBOURIN
STAGE 21
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 2
WYNDHAM CITY COUNCIL
FRASER PROPERTY LTD

PRELIMINARY Dwg No **309508CR501** Rev **A**



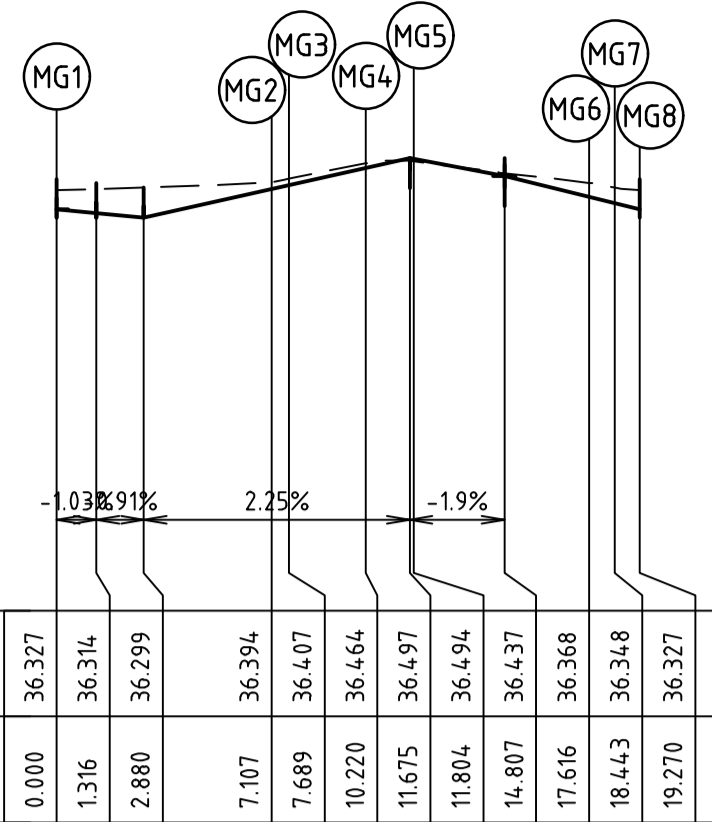
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

CHAINAGE



KERB MG

ALIGNMENT MG

POINT NO	EASTING	NORTHING	RL
MG9	289342.901	5803853.527	36.327
MG1	289342.901	5803853.527	36.327
MG2	289335.799	5803853.246	36.394
1/4	289335.658	5803853.275	36.398
1/2	289335.547	5803853.367	36.401
3/4	289335.491	5803853.500	36.404
MG3	289335.504	5803853.643	36.407
MG4	289336.326	5803856.037	36.464
1/4	289336.524	5803856.377	36.473
1/2	289336.838	5803856.614	36.482
3/4	289337.220	5803856.711	36.491
MG5	289337.609	5803856.654	36.494
MG6	289343.079	5803854.692	36.368
1/4	289343.258	5803854.590	36.363
1/2	289343.392	5803854.434	36.358
3/4	289343.466	5803854.242	36.353
MG7	289343.470	5803854.036	36.348
1/4	289343.404	5803853.841	36.342
1/2	289343.277	5803853.679	36.337
3/4	289343.102	5803853.571	36.332
MG8	289342.901	5803853.527	36.327

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MG2-MG3	0.300	0.582	0.495	0.131	0.035
MG4-MG5	1.000	1.584	1.424	0.298	0.077
MG6-MG7	0.600	0.827	0.763	0.137	0.035
MG7-MG8	0.600	0.827	0.763	0.137	0.035

ALIGNMENT MI

POINT NO	EASTING	NORTHING	RL
M11	289306.981	5803858.627	36.523
M18	289306.981	5803858.627	36.523
3/4	289305.229	5803859.256	36.503
M12	289301.511	5803860.589	36.538
1/4	289301.332	5803860.691	36.541
1/2	289301.198	5803860.847	36.542
3/4	289301.124	5803861.039	36.543
M13	289301.120	5803861.245	36.544
1/4	289301.186	5803861.440	36.546
1/2	289301.314	5803861.601	36.547
3/4	289301.488	5803861.710	36.548
M14	289301.690	5803861.753	36.549
M15	289308.791	5803862.035	36.573
1/4	289308.932	5803862.006	36.571
1/2	289309.043	5803861.914	36.570
3/4	289309.099	5803861.781	36.568
M16	289309.086	5803861.637	36.567
1/4	289308.869	5803861.005	36.560
1/2	289308.453	5803859.794	36.546
M17	289308.265	5803859.244	36.540

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
M12-M13	0.600	0.827	0.763	0.137	0.035
M13-M14	0.600	0.827	0.763	0.137	0.035
M15-M16	0.300	0.582	0.495	0.131	0.035
M17-M11	1.000	-17.686	-1.099	1.836	1.287

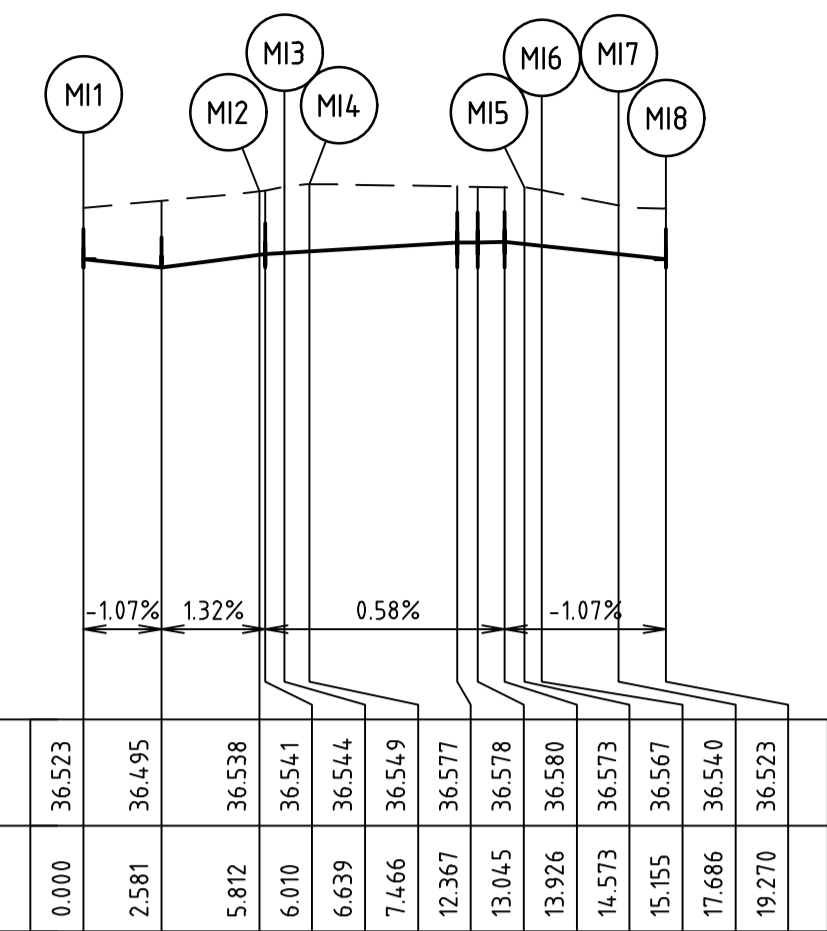
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

CHAINAGE



KERB MI

POINT NO	EASTING	NORTHING	RL
RF1	289316.638	5803863.297	36.631
RF2	289330.295	5803857.640	36.579
RF3	289329.686	5803854.579	36.466
1/2	289327.952	5803851.984	36.343
3/4	289325.357	5803850.249	36.289
RF2	289322.295	5803849.640	36.356
1/4	289319.234	5803850.249	36.387
1/2	289316.638	5803851.984	36.395
3/4	289314.904	5803854.579	36.423
RF3	289314.295	5803857.640	36.492
1/4	289314.904	5803860.702	36.561
1/2	289316.638	5803863.297	36.631
3/4	289319.234	5803865.032	36.682
RF4	289322.295	5803865.640	36.754
1/4	289325.357	5803865.032	36.737

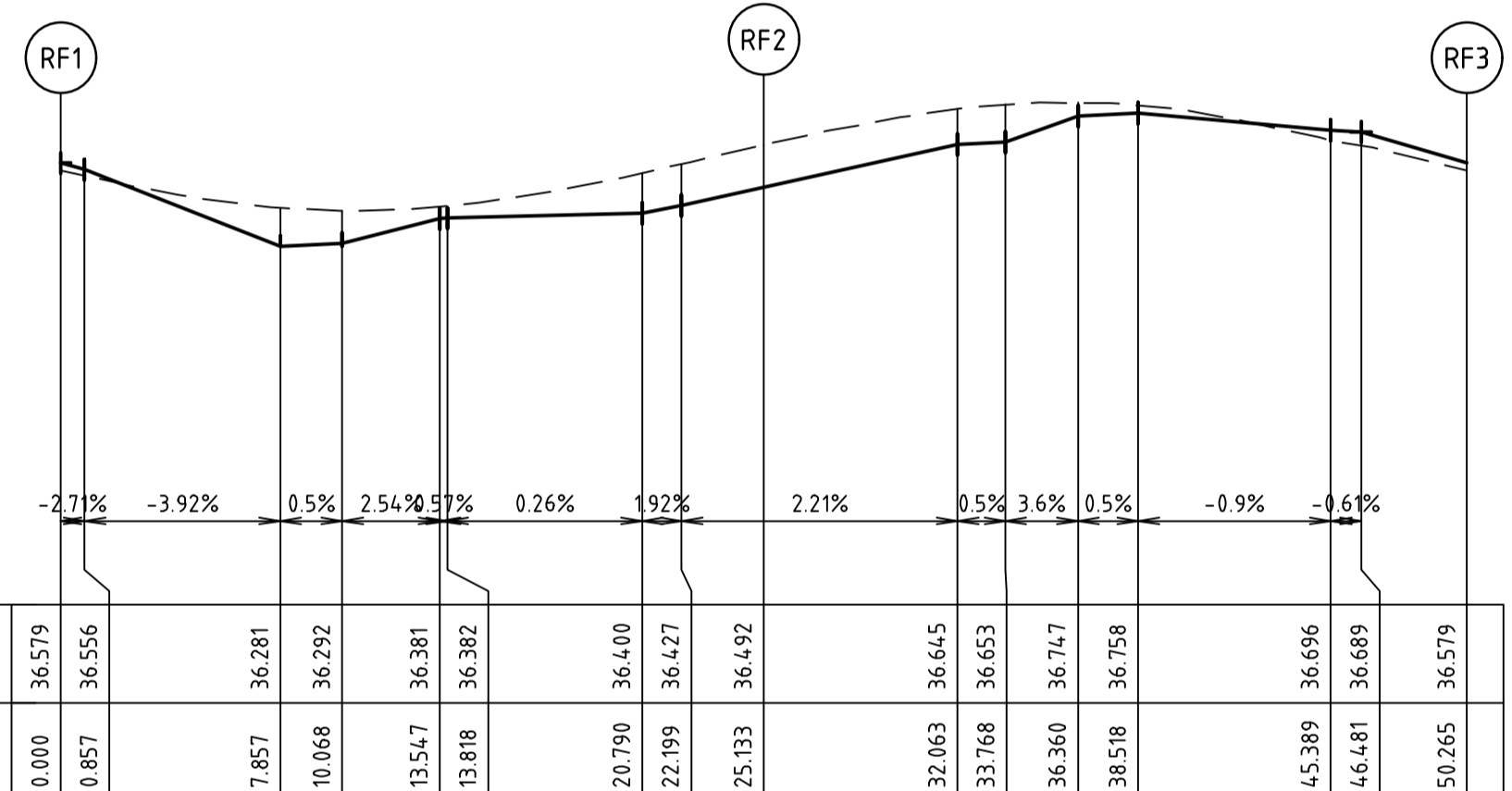
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

CHAINAGE



KERB RF

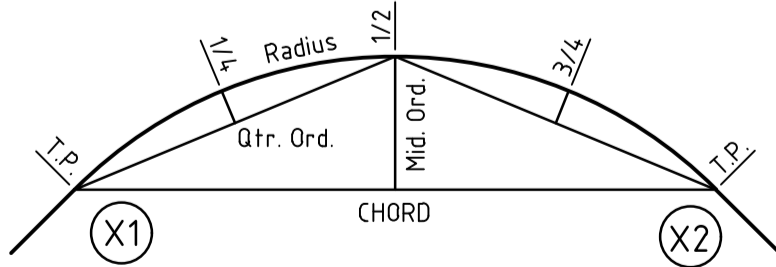
POINT NO	EASTING	NORTHING	RL
MF8	289326.414	5803870.812	36.758
MF1	289326.414	5803870.812	36.758
1/4	289326.558	5803870.798	36.759
1/2	289326.691	5803870.852	36.761
3/4	289326.784	5803870.963	36.763
MF2	289326.814	5803871.104	36.764
MF3	289326.599	5803878.207	36.842
1/4	289326.557	5803878.409	36.838
1/2	289326.450	5803878.584	36.834
3/4	289326.290	5803878.714	36.830
MF4	289326.096	5803878.781	36.826
1/4	289325.890	5803878.779	36.822
1/2	289325.697	5803878.707	36.818
3/4	289325.539	5803878.575	36.814
MF5	289325.436	5803878.397	36.810
MF6	289323.424	5803872.945	36.714
1/4	289323.363	5803872.556	36.715
1/2	289323.457	5803872.174	36.720
3/4	289323.690	5803871.857	36.724
MF7	289324.028	5803871.656	36.729

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MF1-MF2	0.300	0.582	0.495	0.131	-0.035
MF3-MF4	0.600	0.827	0.763	0.137	-0.035
MF4-MF5	0.600	0.827	0.763	0.137	-0.035
MF6-MF7	1.000	1.584	1.424	0.298	-0.077

ALIGNMENT MH

POINT NO	EASTING	NORTHING	RL
MH8	289321.166	5803842.336	36.144
MH1	289321.166	5803842.336	36.144
3/4	289320.486	5803840.494	36.119
MH2	289319.139	5803836.846	36.069
1/4	289319.025	5803836.677	36.072
1/2	289318.861	5803836.556	36.076
3/4	289318.665	5803836.497	36.080
MH3	289318.462	5803836.506	36.084
1/4	289318.273	5803836.583	36.088
1/2	289318.121	5803836.720	36.092
3/4	289318.023	5803836.899	36.096
MH4	289317.991	5803837.100	36.100
MH5	289318.085	5803844.098	36.200
1/4	289318.120	5803844.235	36.198
1/2	289318.214	5803844.340	36.196
3/4	289318.346	5803844.391	36.194
MH6	289318.487	5803844.376	36.192
1/4	289318.721	5803844.291	36.189
1/2	289319.828	5803843.891	36.174
MH7	289320.568	5803843.623	36.164

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MH2-MH3	0.600	0.820	0.758	0.135	0.035
MH3-MH4	0.600	0.820	0.758	0.135	0.035
MH5-MH6	0.300	0.571	0.489	0.126	0.033
MH7-MH1	1.000	-17.275	-1.417	1.706	1.384



KERB RETURN SETOUT DETAIL

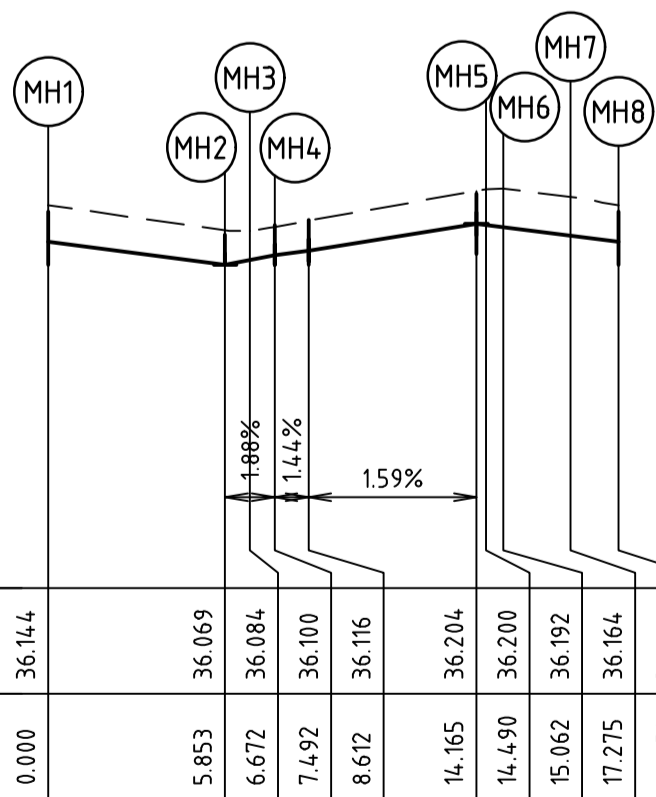
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

CHAINAGE



KERB MH

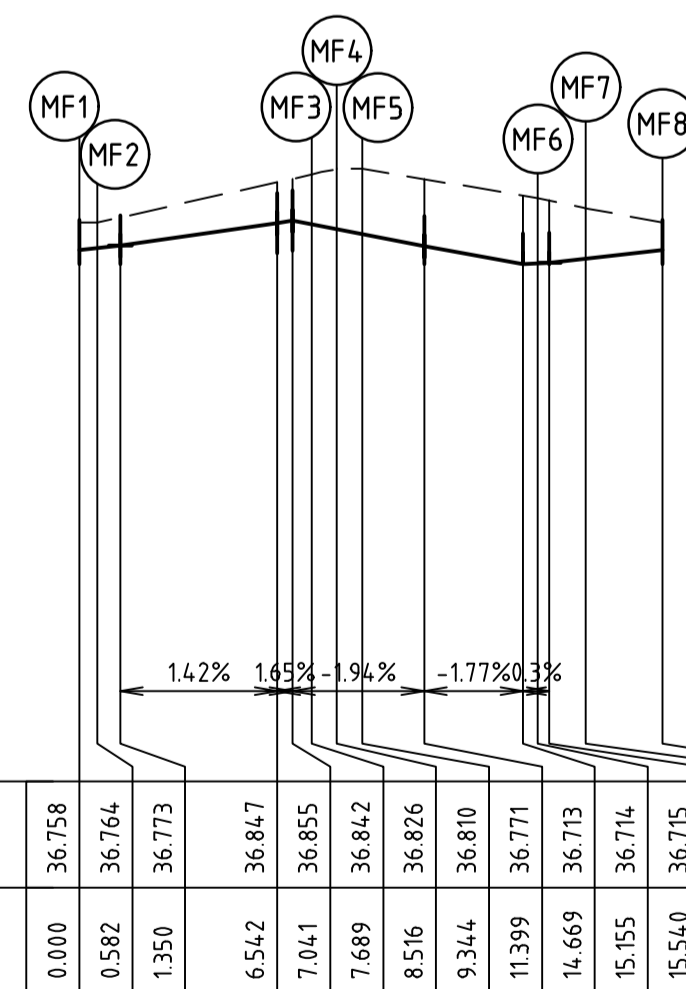
VERTICAL GEOMETRY

DESIGN GRADELINE

DATUM RL 35.0

DESIGN LEVEL

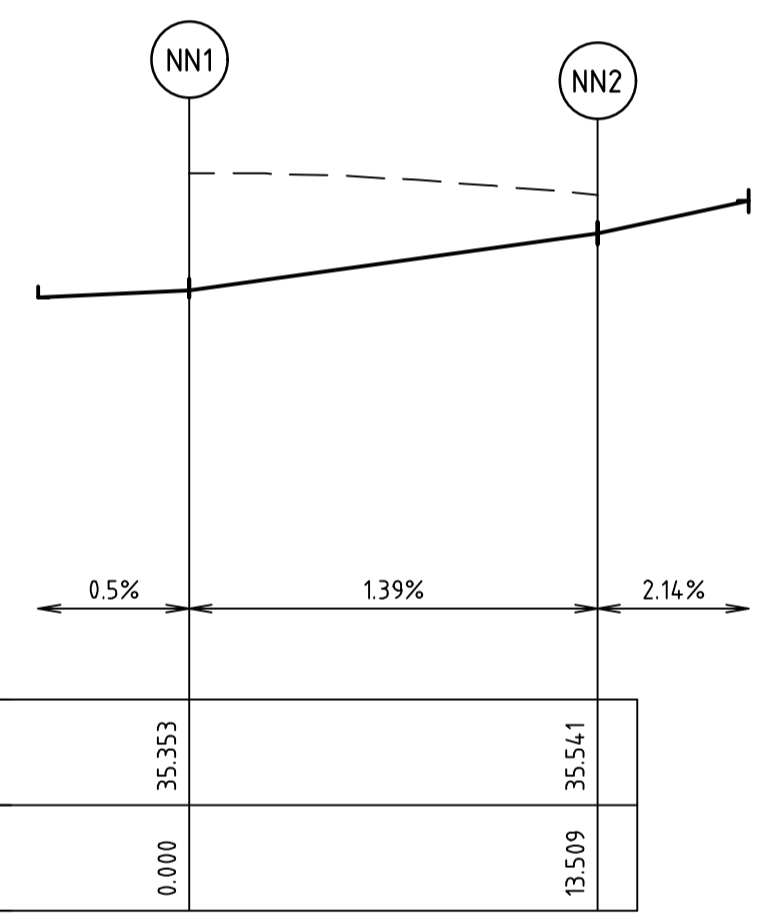
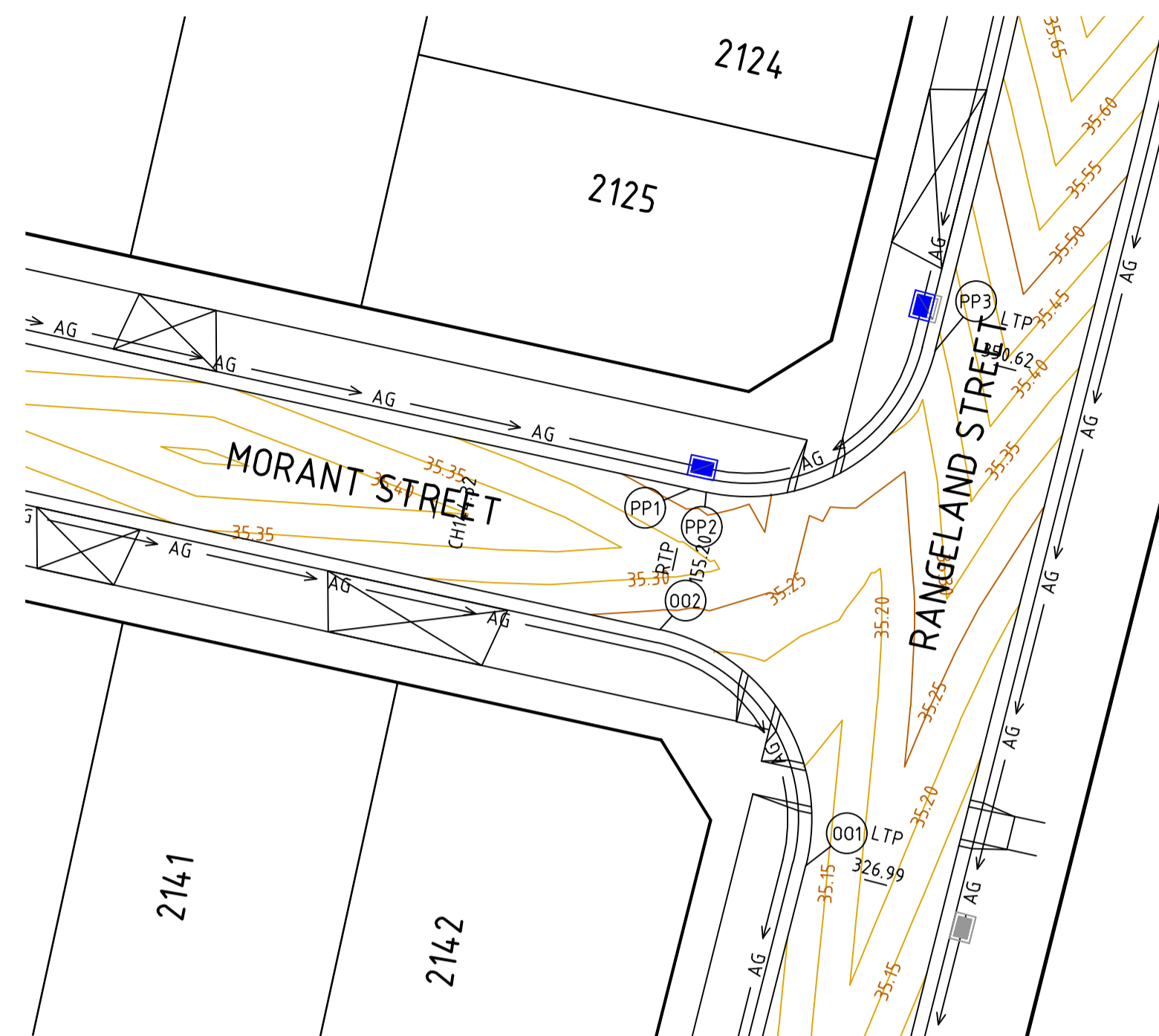
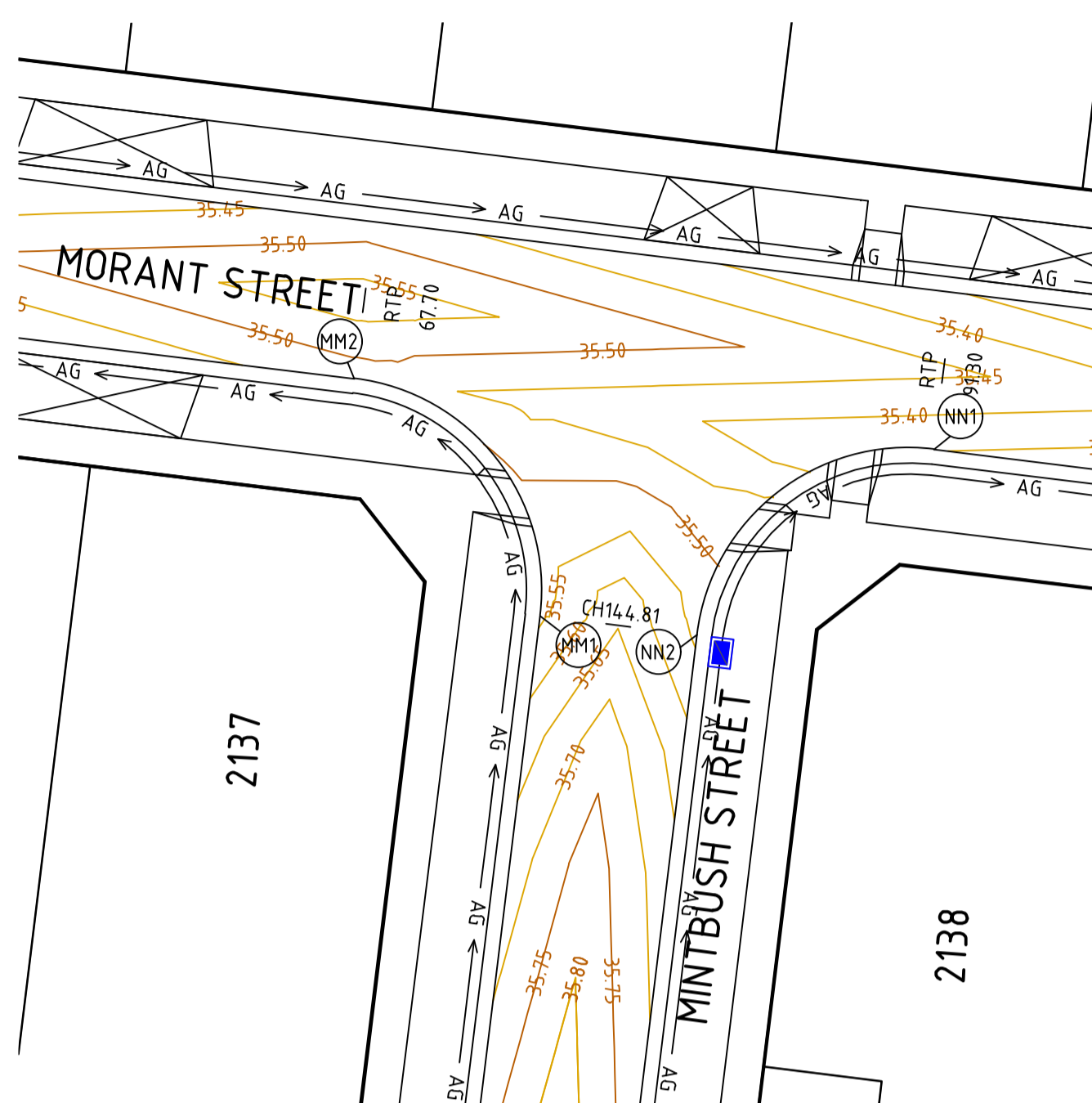
CHAINAGE



KERB MF

ALIGNMENT MF

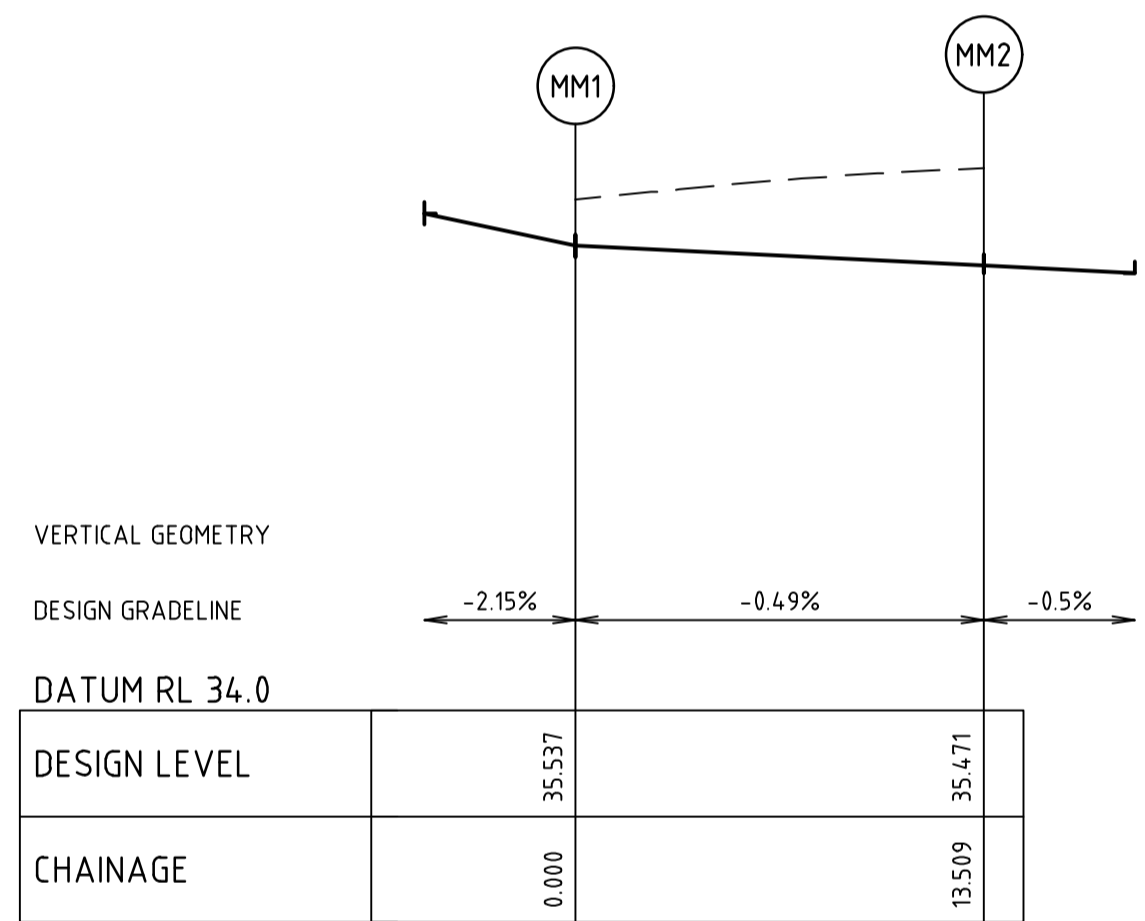
POINT NO	EASTING	NORTHING	RL
MF8	289326.414	5803870.812	36.758
MF1	289326.414	5803870.812	36.758
1/4	289326.558	5803870.798	36.759
1/2	289326.691	5803870.852	36.761
3/4	289326.784	5803870.963	36.763
MF2	289326.814	5803871.104	36.764
MF3	289326.599	5803878.207	36.842
1/4	289326.557	5803878.409	36.838
1/2	289326.450	5803878.584	36.834
3/4	289326.290	5803878.714	36.830
MF4	289326.096	5803878.781	36.826
1/4	289325.890	5803878.779	36.822
1/2	289325.697	5803878.707	36.818
3/4	289325.539	5803878.575	36.814
MF5	289325.436	5803878.397	36.810
MF6	289323.424	5803872.945	36.714
1/4	289323		



KERB NN
ALIGNMENT NN

POINT NO	EASTING	NORTHING	RL
NN1	289230.657	5803798.279	35.353
1/4	289227.311	5803798.028	35.400
1/2	289224.316	5803796.515	35.447
3/4	289222.128	5803793.971	35.494
NN2	289221.079	5803790.784	35.541

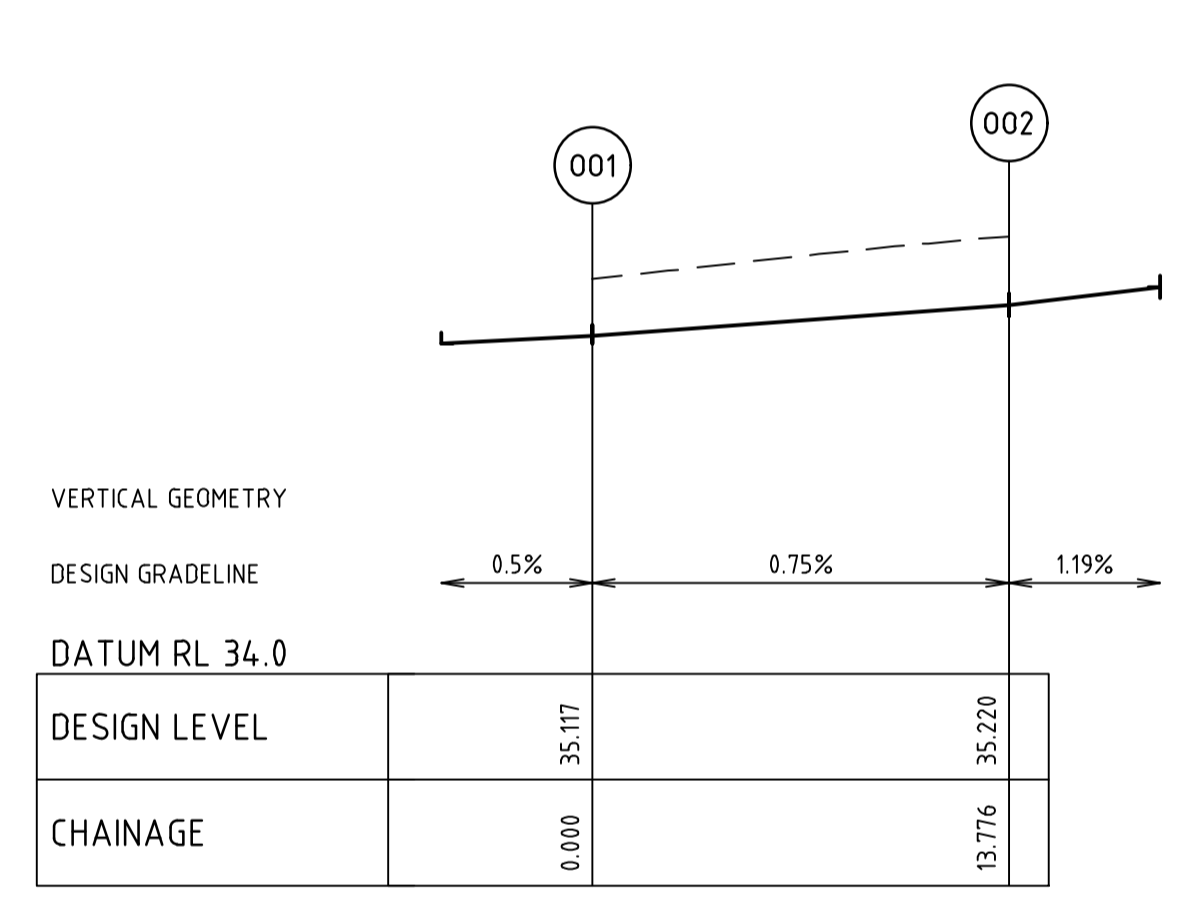
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
NN1-NN2	8.600	13.509	12.162	2.519	-0.655



KERB MM
ALIGNMENT MM

POINT NO	EASTING	NORTHING	RL
MM1	289214.726	5803791.559	35.537
1/4	289214.475	5803794.905	35.520
1/2	289212.962	5803797.900	35.504
3/4	289210.418	5803800.088	35.487
MM2	289207.231	5803801.137	35.471

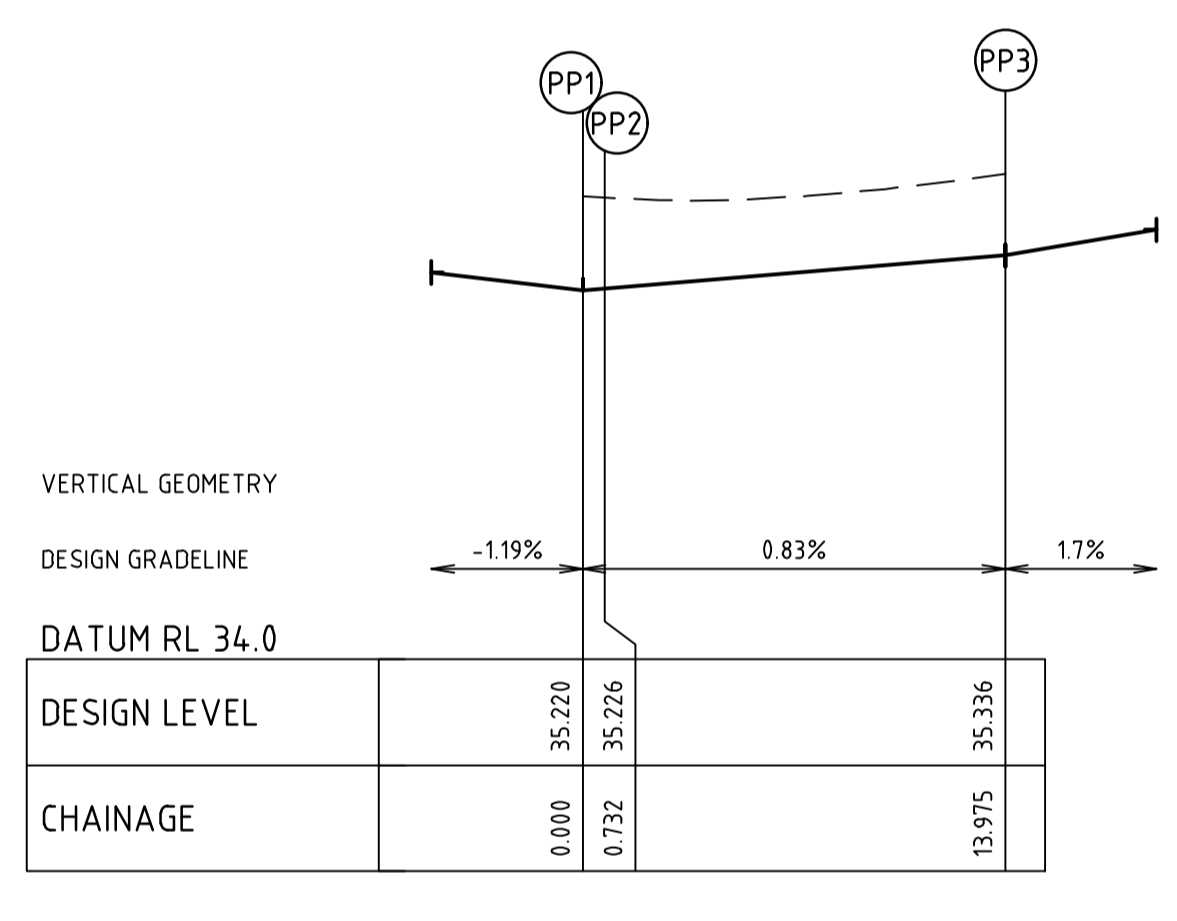
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
MM1-MM2	8.600	13.509	12.162	2.519	-0.655



KERB OO
ALIGNMENT OO

POINT NO	EASTING	NORTHING	RL
001	289299.692	5803776.533	35.117
1/4	289299.850	5803779.950	35.142
1/2	289298.663	5803783.159	35.168
3/4	289296.319	5803785.651	35.194
002	289293.189	5803787.032	35.220

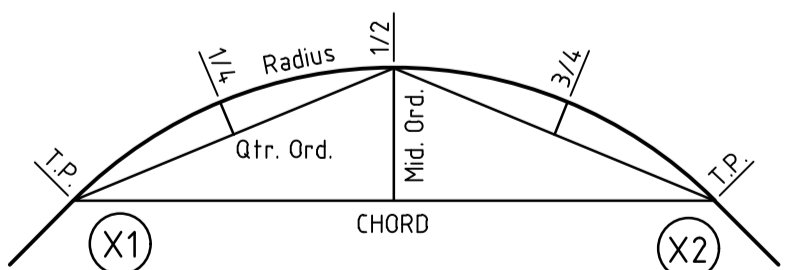
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
001-002	8.600	13.776	12.349	2.614	-0.680



KERB PP
ALIGNMENT PP

POINT NO	EASTING	NORTHING	RL
PP1	289294.556	5803793.284	35.220
PP2	289295.272	5803793.127	35.226
1/4	289298.561	5803793.052	35.253
1/2	289301.638	5803794.218	35.281
3/4	289304.052	5803796.453	35.308
PP3	289305.450	5803799.432	35.336

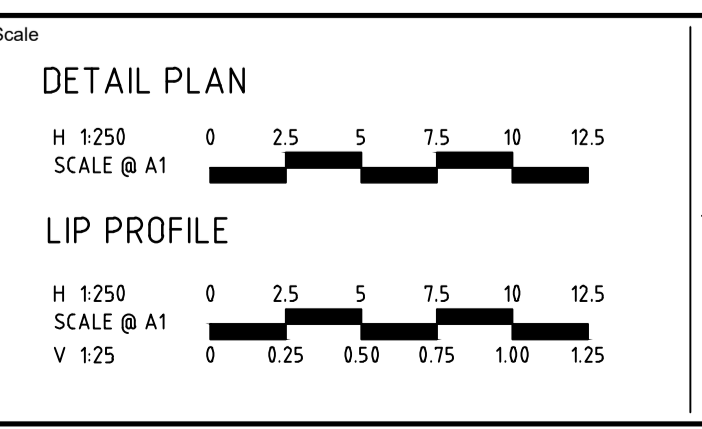
CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
PP2-PP3	8.600	13.242	11.972	2.425	-0.629



KERB RETURN SETOUT DETAIL

file name: 309508CR503.dwg, I:\work\proj\309508\309508.dwg, sheet: 13 of 17 sheets, plot date: 03/03/2023, 2:53 PM

Rev	Amendments	Approved	Date



System Certified

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Designed
K. FEARN-WANNAN
Authorised
G. KOHLMAN



Checked
G. KOHLMAN
Date
03/03/23

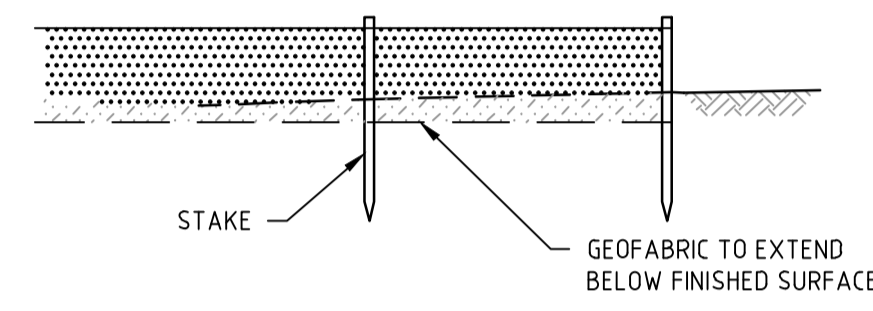
**MAMBOURIN
STAGE 21
ROAD AND DRAINAGE
INTERSECTION DETAILS - SHEET 4**
WYNDHAM CITY COUNCIL
FRASER PROPERTY LTD

PRELIMINARY Dwg No **309508CR503** Rev **-**

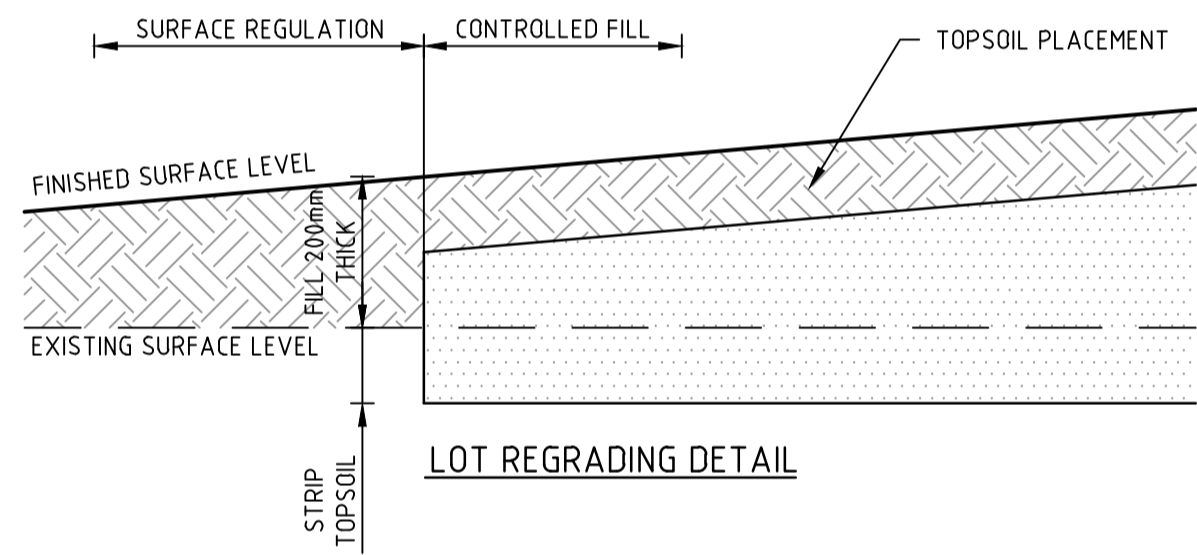
DESIGN PAVEMENT PROFILE

PAVEMENT LAYER	DESCRIPTION	DEPTH (m)		
		TYPE C	TYPE D	TYPE G
UPPER PAVEMENT LAYER				
ASPHALT WEARING COURSE	VICROADS SIZE 14 TYPE H, CLASS 170 BINDER	40		
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40	
	VICROADS SIZE 14 TYPE V, CLASS 320 BINDER			40
ASPHALT INTERMEDIATE COURSE	VICROADS SIZE 20 TYPE SI, CLASS 320 BINDER	75		75
ASPHALT BASE COURSE	VICROADS SIZE 20 TYPE SF, CLASS 320 BINDER	75		75
	VICROADS SIZE 10 TYPE N, CLASS 170 BINDER		40	
	SAMI (SIZE 10 CLASS S18RF)	Y	Y	Y
	BITUMINOUS PRIME	Y	Y	Y
LOWER PAVEMENT LAYER				
SUBBASE COURSE	3% CEMENT TREATED CRUSHED ROCK	100		100
GRANULAR BASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT		110	
GRANULAR SUBBASE	VICROADS 20mm CLASS 2 CRUSHED ROCK OR EQUIVALENT	160		120
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		140	110
	VICROADS 100mm CLASS 3 CRUSHED ROCK OR EQUIVALENT		130	
CAPPING LAYER				
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 x 10 ⁻⁹ m/s	150	150	150
PAVEMENT DEPTH		600	610	520
TOTAL DEPTH		750	760	670
CONSTRUCTION LAYER				
CAPPING LAYER	TYPE A MATERIAL, CBR ≥ 8%, SWELL ≤ 15%, PERMEABILITY ≤ 5 x 10 ⁻⁹ m/s	150	150	150

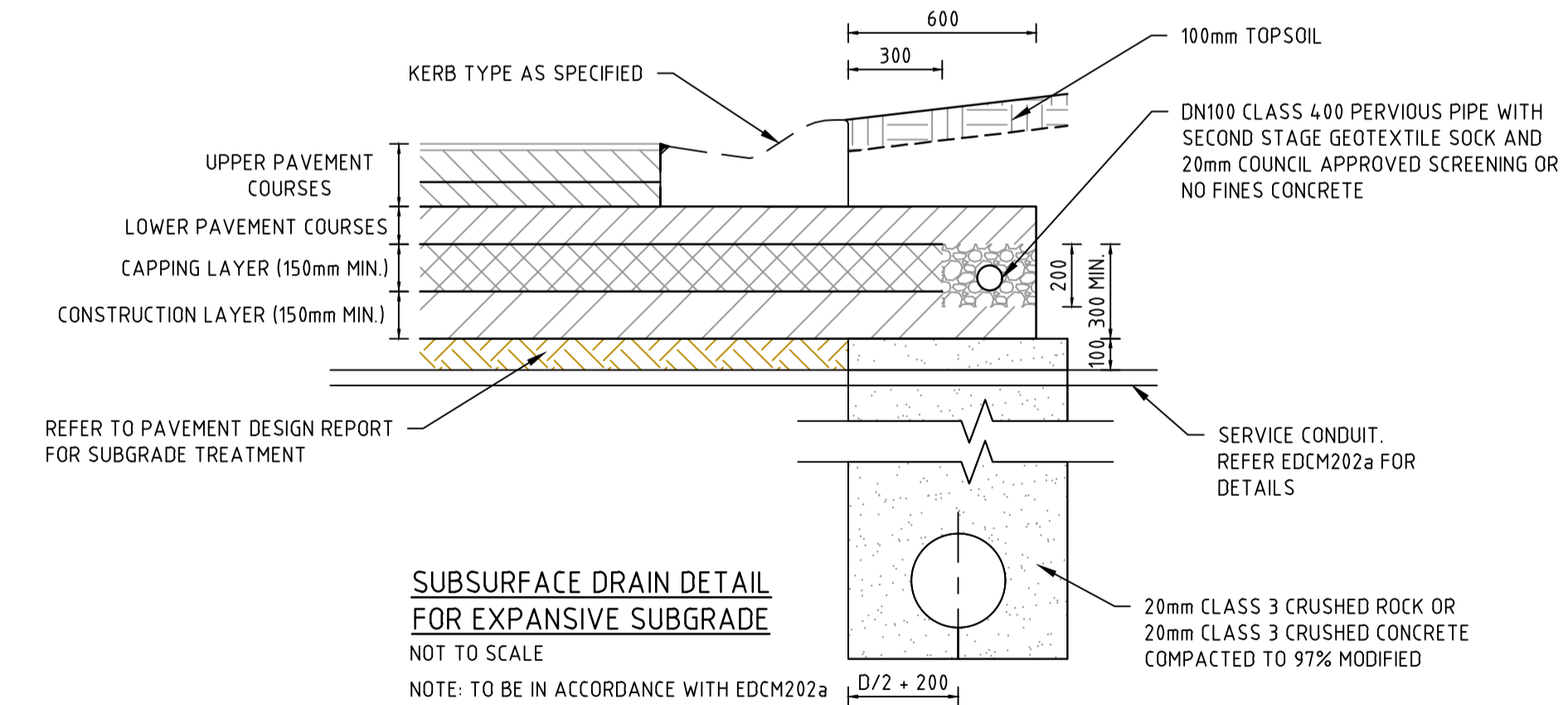
SUBGRADE = CLAY WITH DESIGN CBR OF 2%. TO BE IMPROVED TO A DEPTH NOT LESS THAN 150 MM USING SUBGRADE IMPROVEMENT LAYER OR IN-SITU STABILISED WITH A CBR VALUE >10%



SILT CONTROL FOR LOTS
GEOFABRIC SILT FENCE



LOT REGRADING DETAIL



SUBSURFACE DRAIN DETAIL FOR EXPANSIVE SUBGRADE
NOT TO SCALE

NOTE: TO BE IN ACCORDANCE WITH EDM202a

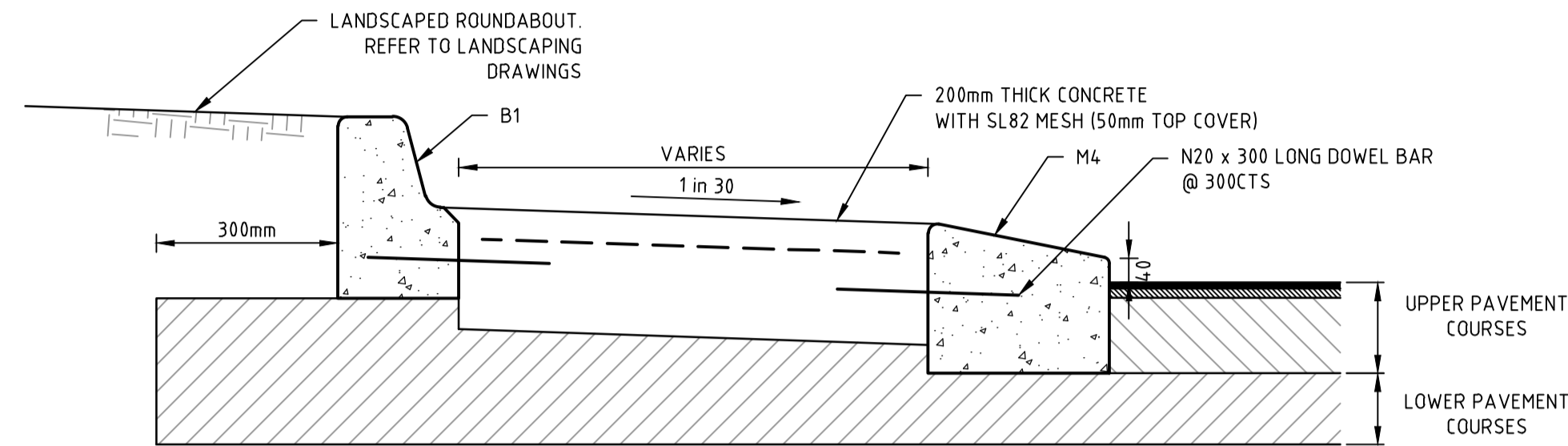
PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE MAMBOURIN ESTATE - REMAINING STAGES (PRECINCT 2 AND 3, AND TOWN CENTRE) GEOTECHNICAL REPORT ON "GEOTECHNICAL INVESTIGATION AND PAVEMENT DESIGN" (REPORT NO. 754-MELGE221991AE-AB REV 4). THIS DOCUMENTS SHOULD BE REVIEWED TO ENSURE THAT THE DESIGN HAS BEEN ACCURATELY REPRODUCED.

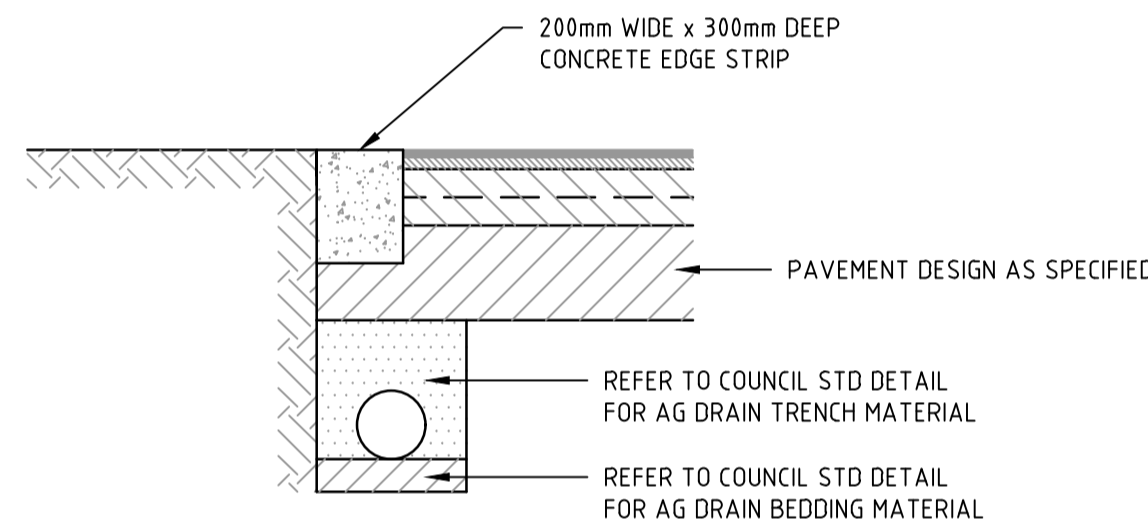
A COPY OF THE DOCUMENT WILL BE PROVIDED ON REQUEST.

SPIRE 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 AND COPIED TO SPIRE.



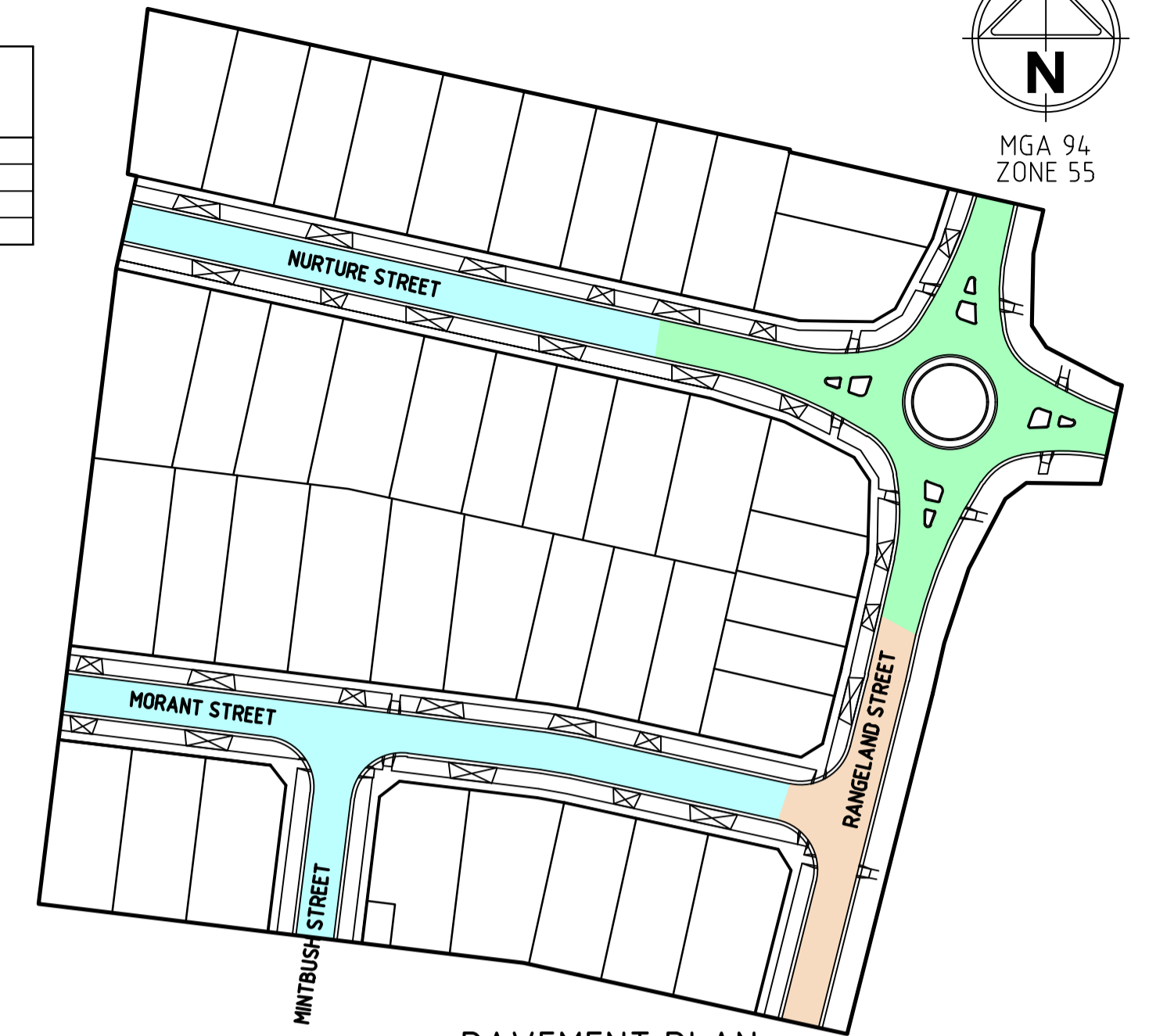
ROUNDAABOUT DETAIL

NOT TO SCALE



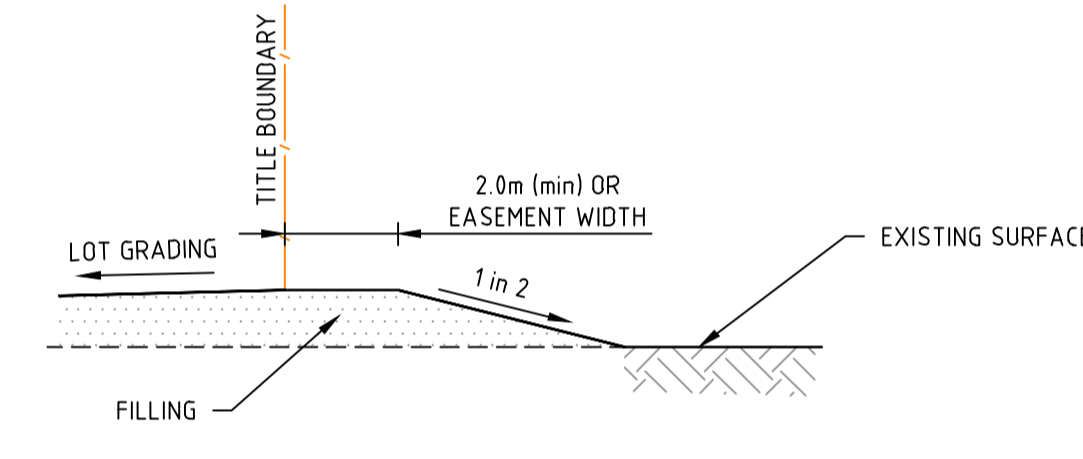
LIMIT OF WORKS CONCRETE EDGE STRIP & PAVEMENT INTERFACE DETAIL

ROAD NAME	TYPE
RANGLAND STREET	ACCESS STREET LEVEL 2
MORANT STREET	ACCESS STREET LEVEL 1
NURTURE STREET	ACCESS STREET LEVEL 1
MINTBUSH STREET	ACCESS STREET LEVEL 1

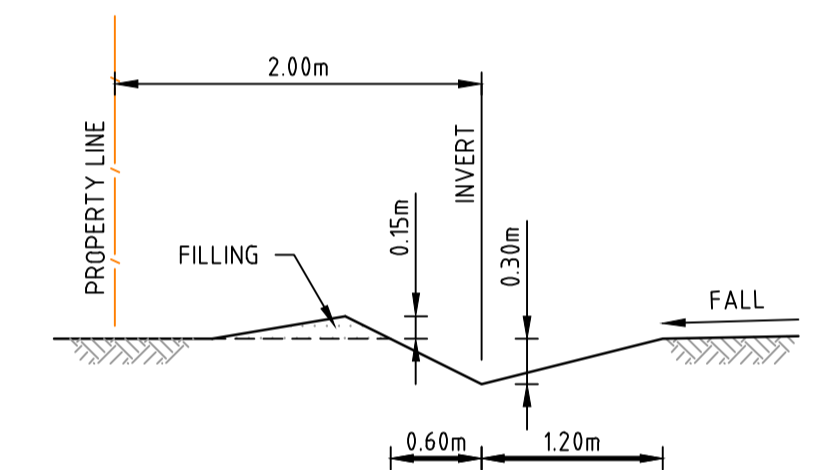


PAVEMENT PLAN

H 1:1000
SCALE @ A1

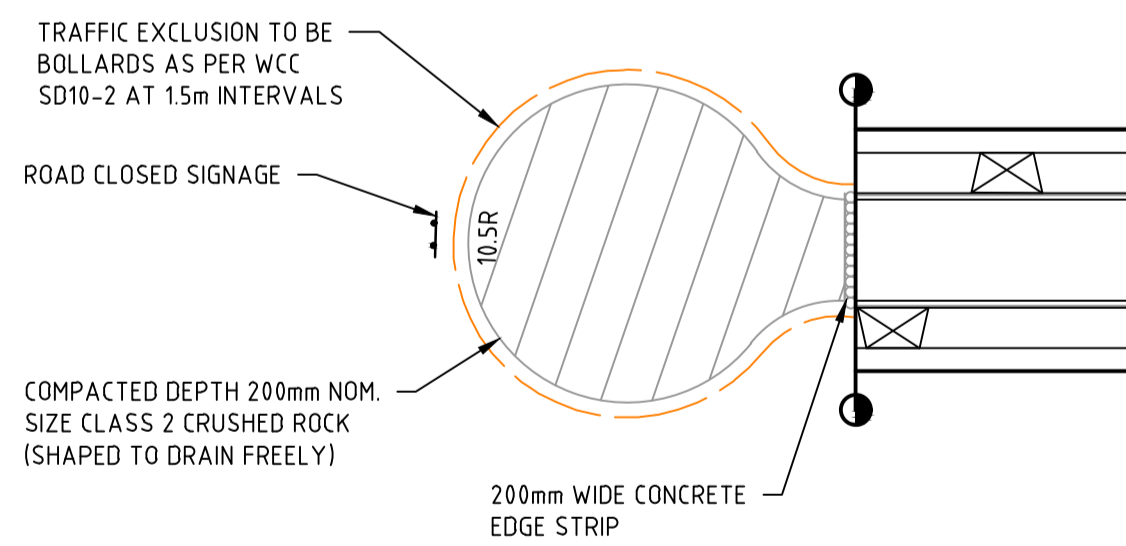


LOT FILLING AT STAGE BOUNDARY

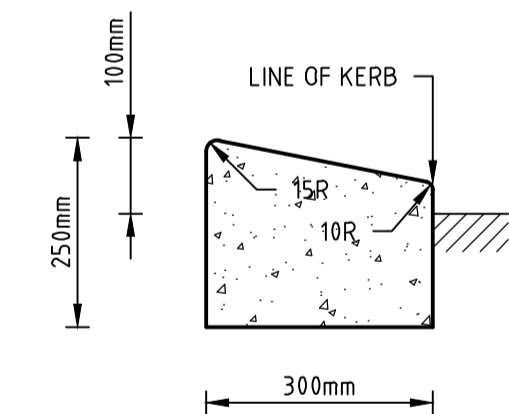


TYPICAL CATCH DRAIN SECTION

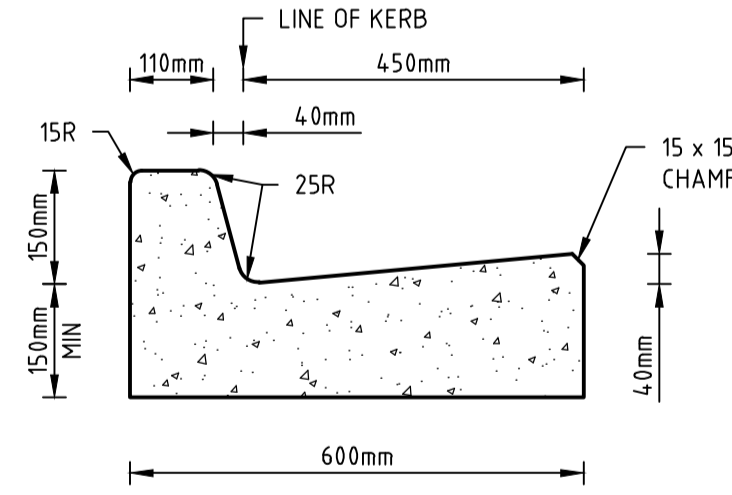
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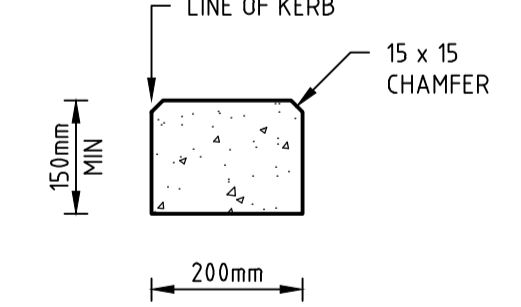
TEMPORARY TURNING AREA DETAIL



M4



600 B2



EDGE STRIP

STANDARD KERB PROFILES

NOTE: ALL KERB & CHANNEL AS PER GAA STD DRAWING EDM3 301

H 1:100
SCALE @ A1

NOT TO SCALE

file name: 309508CR700.dwg, layout name: CD700, created by: Kirsten Fearn-Wannan, file location: G:\309508\309508.dwg, LACAD Plot date: 03/03/2023 2:55 PM Sheet: 6 of 17 Sheets

Rev	Description	Approved	Date
B	TURNING AREA DETAIL AMENDED	MI.R	03/01/23
A	PRELIMINARY ISSUE	MI.R	30/11/22
	Amendments	Approved	Date

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Designed
K. FEARN-WANNAN

 Authorised
G. KOHLMAN

Checked
G. KOHLMAN

 Date
03/03/23

MAMBOURIN
STAGE 21
 ROAD AND DRAINAGE
 PAVEMENT AND TYPICAL DETAILS
 WYNDHAM CITY COUNCIL
 FRASER PROPERTY LTD

PRELIMINARY Drg No **309508CR700** Rev **B**

