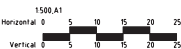




HOUSE DRAIN CONNECTIONS
FOR LOTS 501 TO 515 HOUSE DRAIN CONNECTIONS
TO 1500M MAIN DRAIN
REFER TO LOCAL GOVERNMENT INFRASTRUCTURE
DESIGN MANUAL STANDARD DRAWING SD-516
(45° TO PIPE WHERE COVER IS LIMITED)



6	AS CONSTRUCTED ISSUE	M.L.	18/06/20
5	DRIVEWAY FUT STG10 LOT 1007 / 1008 CONVERTED TO DOUBLE BRANCH ST KERB TYPES UPDATED TO B2.45. OTHER KERB TYPES UPDATED TO B2600	M.L.	16/10/19
4	LOT LAYOUT UPDATED. LOTS 501 TO 515 REAR DRAIN REMOVED, HD TO FRONT. SEWER ALIGNMENT UPDATED. DRAIN PITS 24 TO 27 UPDATED.	M.L.	06/07/19
3	LOTS 501 TO 516 PROPERTY INLETS MOVED. DRAINAGE MIN IL NOTES ADDED.	M.L.	11/04/19
2	LOT 513 & LOT 514 UPDATED TO DOUBLE DRIVEWAY	M.L.	28/03/19
1	PROPHRY STONE ADDED TO RAISED PAVEMENT	M.L.	15/02/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date

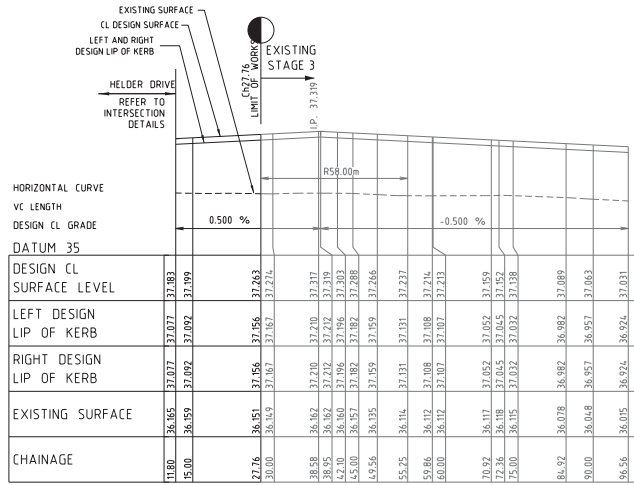


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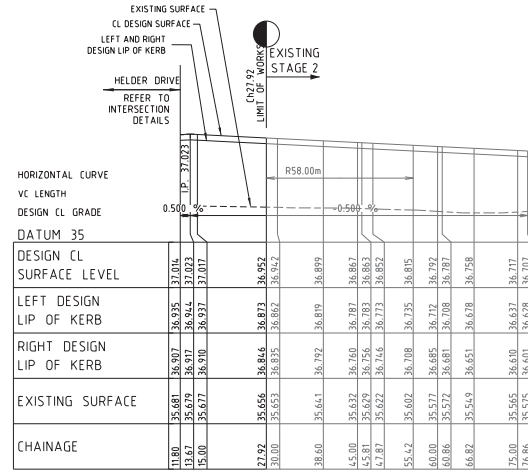
FRASERS PROPERTY
Designed
R. WEINBER
Authorised
M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

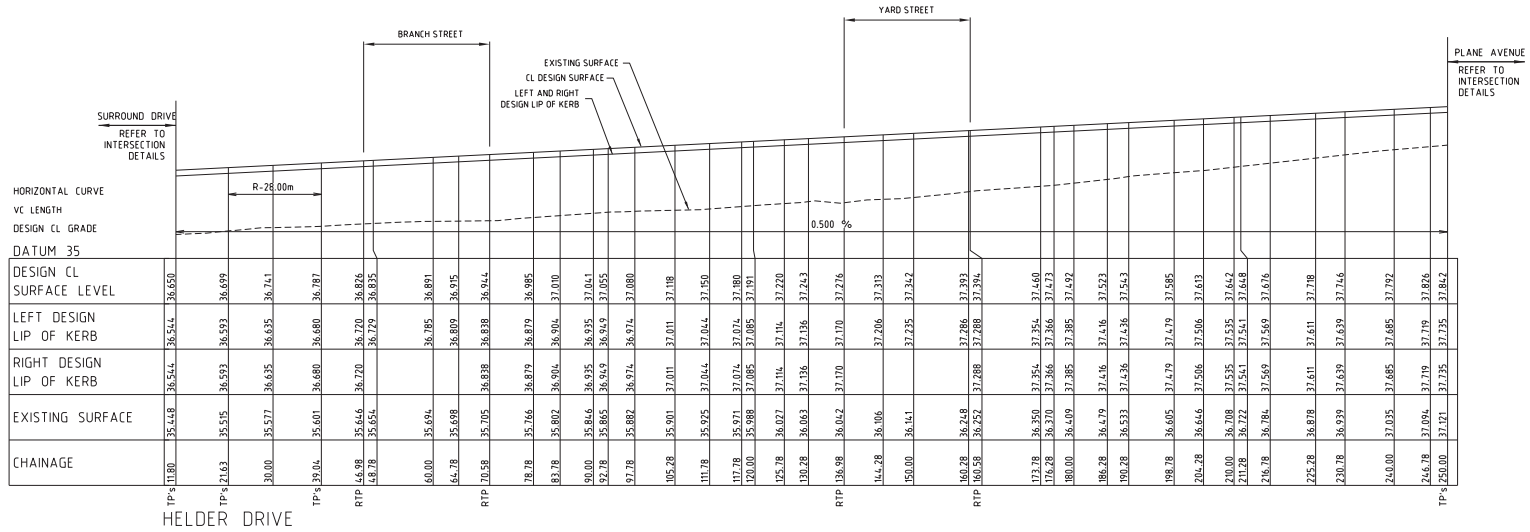
**MAMBOURIN ESTATE
STAGE 5
DETAIL PLAN**
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL
AS CONSTRUCTED 305170R02 Drg No Rev



YARD STREET



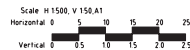
BRANCH STREET



HELDER DRIVE

PLANE AVENUE
REFER TO INTERSECTION DETAILS

2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	BRANCH ST LEFT LIP LEVELS UPDATED.	M.L.	16/10/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date



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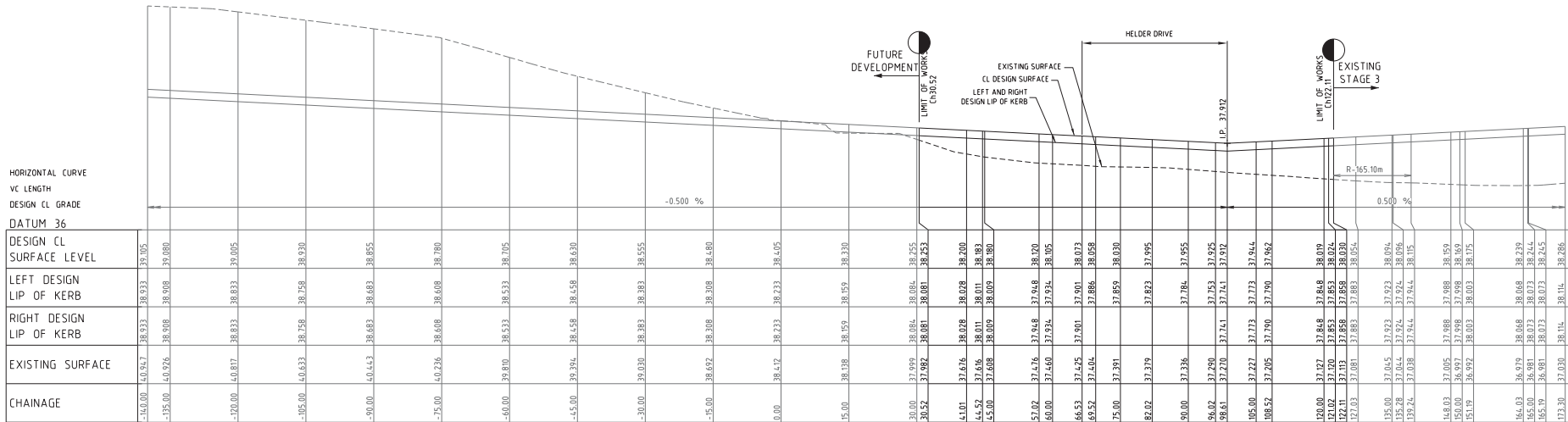
Designed
R. WEINBER
Authorised
M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

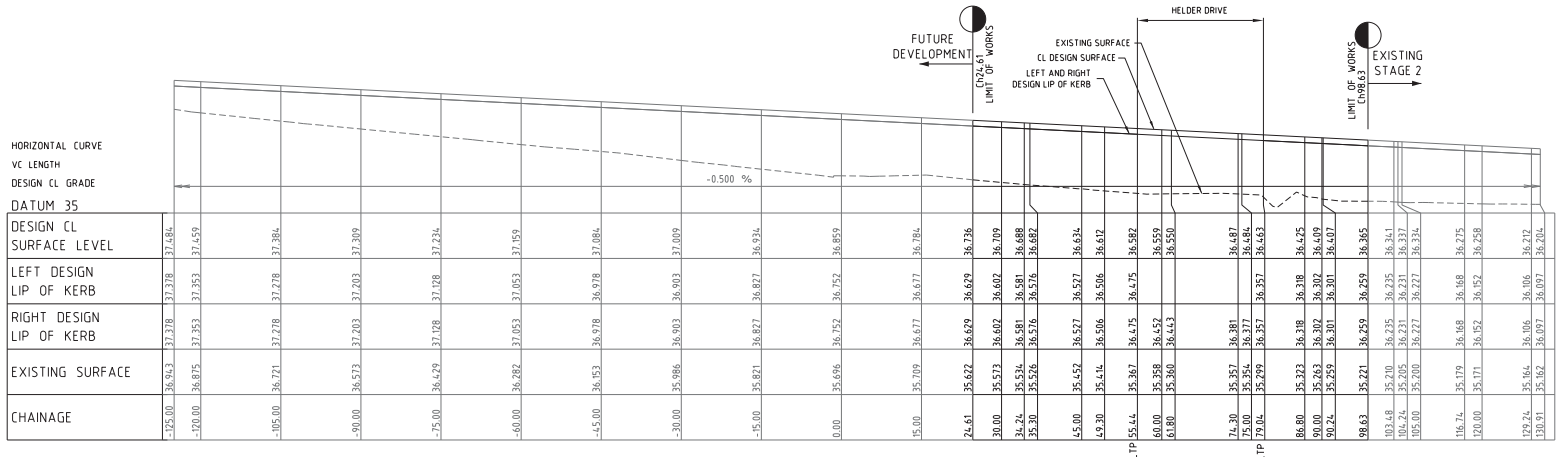
MAMBOURIN ESTATE
STAGE 5
LONGITUDINAL SECTION - YARD STREET,
BRANCH STREET AND HELDER DRIVE
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R03

2



PLANE AVENUE



SURROUND DRIVE

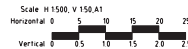
HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 36

CHAINAGE	EXISTING SURFACE	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
160.00	40.947	38.833	38.833	39.105
165.00	40.926	38.808	38.808	38.080
170.00	40.817	38.833	38.833	38.005
175.00	40.633	38.758	38.758	38.930
180.00	40.443	38.683	38.683	38.855
185.00	40.236	38.608	38.608	38.780
190.00	39.810	38.533	38.533	38.705
195.00	39.394	38.458	38.458	38.630
200.00	39.030	38.383	38.383	38.555
205.00	38.657	38.308	38.308	38.480
210.00	38.472	38.233	38.233	38.405
215.00	38.138	38.159	38.159	38.330
220.00	37.999	38.084	38.084	38.255
225.00	37.982	38.081	38.081	38.252
230.00	37.676	38.028	38.028	38.200
235.00	37.606	38.011	38.011	38.183
240.00	37.608	38.003	38.003	38.180
245.00	37.476	37.948	37.948	38.170
250.00	37.460	37.934	37.934	38.105
255.00	37.425	37.901	38.073	38.078
260.00	37.404	37.886	38.058	38.058
265.00	37.391	37.859	38.030	38.030
270.00	37.379	37.823	37.995	37.995
275.00	37.336	37.784	37.955	37.955
280.00	37.290	37.753	37.925	37.925
285.00	37.270	37.741	37.912	37.912
290.00	37.227	37.713	37.944	37.944
295.00	37.205	37.700	37.962	37.962
300.00	37.127	37.648	38.019	38.019
305.00	37.072	37.602	38.072	38.072
310.00	37.119	37.658	38.056	38.056
315.00	37.081	37.683	38.054	38.054
320.00	37.065	37.623	38.074	38.074
325.00	37.072	37.674	38.076	38.076
330.00	37.038	37.624	38.115	38.115
335.00	37.005	37.688	38.159	38.159
340.00	36.997	37.688	38.169	38.169
345.00	36.997	38.003	38.175	38.175
350.00	36.979	38.068	38.239	38.239
355.00	36.981	38.073	38.244	38.244
360.00	36.981	38.073	38.245	38.245
365.00	37.030	38.114	38.286	38.286

HORIZONTAL CURVE
VC LENGTH
DESIGN CL GRADE
DATUM 35

CHAINAGE	EXISTING SURFACE	RIGHT DESIGN LIP OF KERB	LEFT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
125.00	38.943	37.378	37.378	37.484
130.00	38.875	37.353	37.353	37.459
135.00	38.741	37.278	37.278	37.384
140.00	38.573	37.203	37.203	37.309
145.00	38.479	37.128	37.128	37.234
150.00	38.282	37.053	37.053	37.159
155.00	38.153	36.978	36.978	37.084
160.00	38.086	36.903	36.903	37.009
165.00	38.021	36.827	36.827	36.934
170.00	38.056	36.752	36.752	36.859
175.00	38.709	36.677	36.677	36.784
180.00	38.679	36.679	36.679	36.738
185.00	38.602	36.602	36.602	36.709
190.00	38.534	36.581	36.581	36.688
195.00	38.536	36.576	36.576	36.687
200.00	38.527	36.527	36.634	36.634
205.00	38.474	36.506	36.506	36.612
210.00	38.367	36.475	36.475	36.582
215.00	38.358	36.452	36.559	36.559
220.00	38.388	36.443	36.550	36.550
225.00	38.357	36.401	36.487	36.487
230.00	38.354	36.377	36.484	36.484
235.00	38.299	36.357	36.463	36.463
240.00	38.323	36.318	36.425	36.425
245.00	38.283	36.302	36.302	36.409
250.00	38.259	36.301	36.301	36.407
255.00	38.271	36.259	36.259	36.365
260.00	38.210	36.235	36.235	36.341
265.00	38.205	36.231	36.231	36.337
270.00	38.200	36.227	36.227	36.334
275.00	38.179	36.188	36.188	36.275
280.00	38.171	36.152	36.152	36.258
285.00	38.164	36.106	36.106	36.217
290.00	38.162	36.077	36.077	36.204

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED ISSUE	M.L	18/06/20
0	CONSTRUCTION ISSUE	M.L	13/11/18



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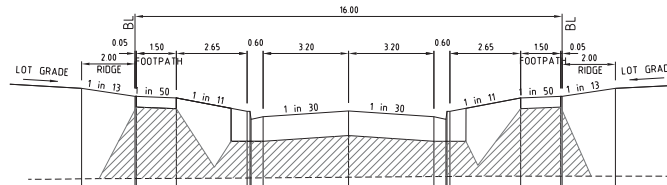
FRASERS PROPERTY
Designed
M. WEINBER
Authorised
M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

**MAMBOURIN ESTATE
STAGE 5
LONGITUDINAL SECTION - PLANE AVENUE
AND SURROUND DRIVE**
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL
As Constructed 305170R04



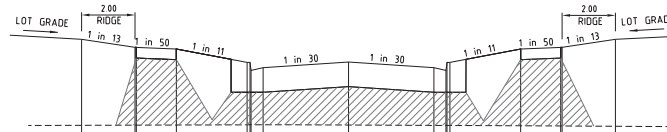
STRUCTURAL FILL



DATUM 35	
DESIGN SURFACE LEVEL	37.370
EXISTING SURFACE LEVEL	36.675
OFFSET	-0.000

HELDER DRIVE

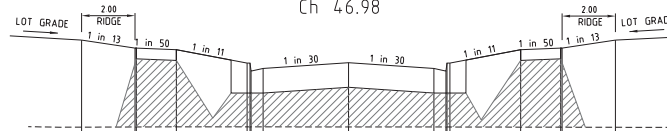
Ch 70.88



DATUM 35	
DESIGN SURFACE LEVEL	37.251
EXISTING SURFACE LEVEL	35.641
OFFSET	-10.000

HELDER DRIVE

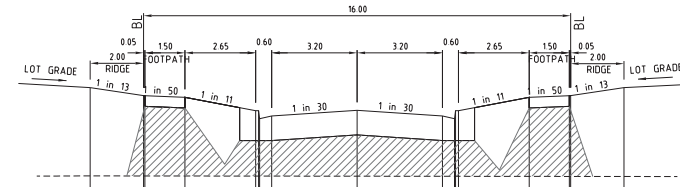
Ch 46.98



DATUM 35	
DESIGN SURFACE LEVEL	37.075
EXISTING SURFACE LEVEL	35.444
OFFSET	-10.000

HELDER DRIVE

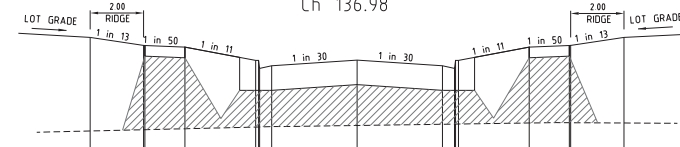
Ch 11.80



DATUM 35	
DESIGN SURFACE LEVEL	37.701
EXISTING SURFACE LEVEL	36.048
OFFSET	-10.000

HELDER DRIVE

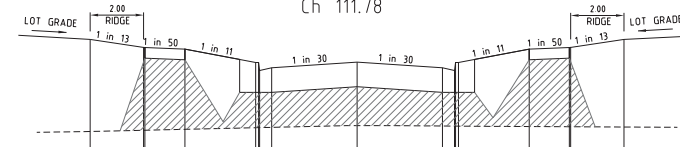
Ch 136.98



DATUM 35	
DESIGN SURFACE LEVEL	37.575
EXISTING SURFACE LEVEL	35.822
OFFSET	-10.000

HELDER DRIVE

Ch 111.78

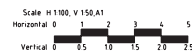


DATUM 35	
DESIGN SURFACE LEVEL	37.480
EXISTING SURFACE LEVEL	35.756
OFFSET	-10.000

HELDER DRIVE

Ch 92.78

2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	Ch70.58 REPLACED WITH Ch70.88	M.L.	16/10/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date



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M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

**MAMBOURIN ESTATE
STAGE 5
CROSS SECTIONS - HELDER DRIVE**

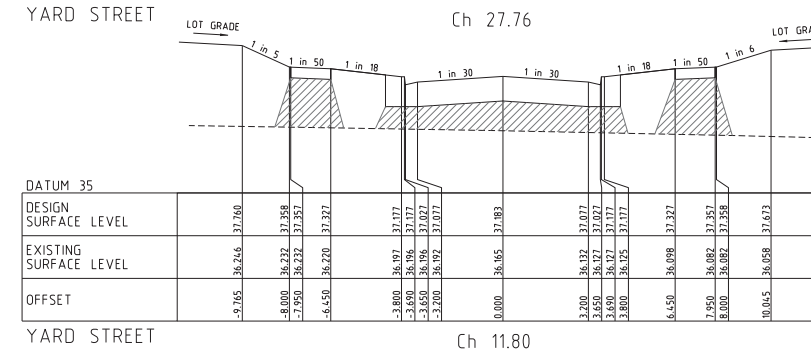
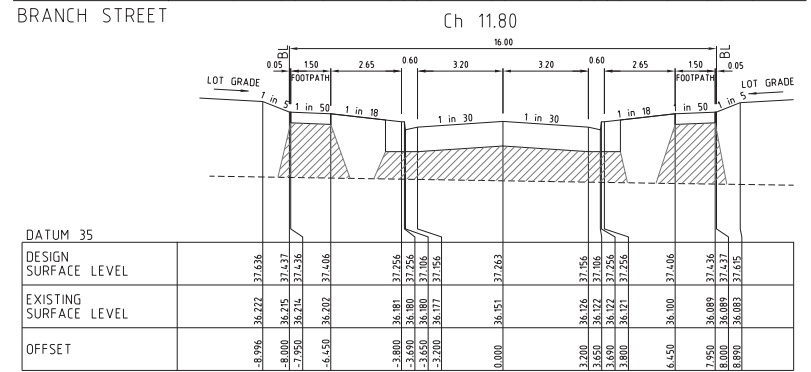
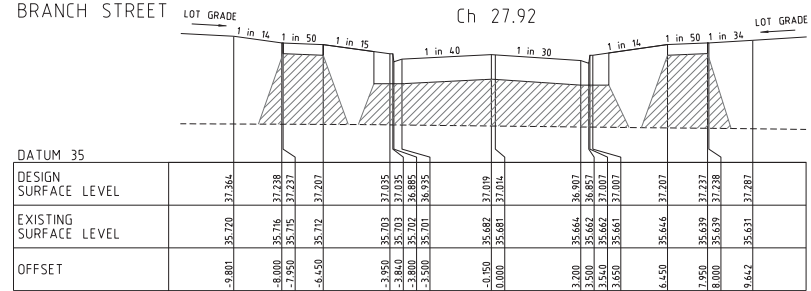
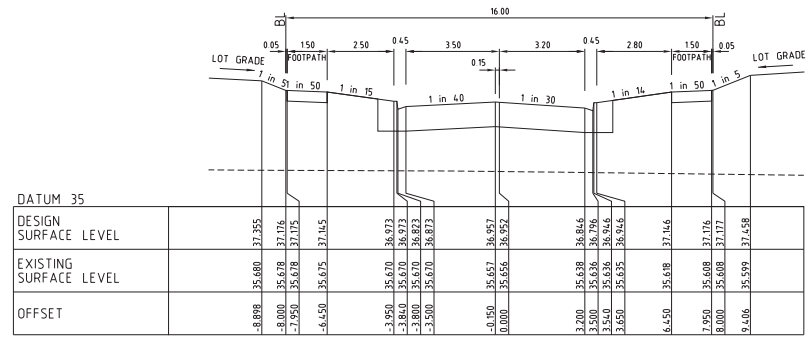
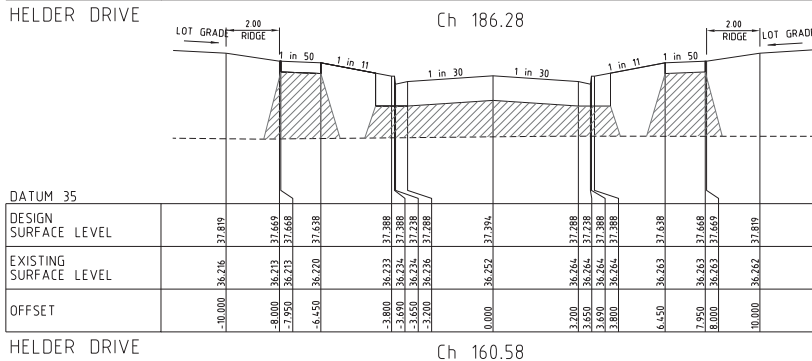
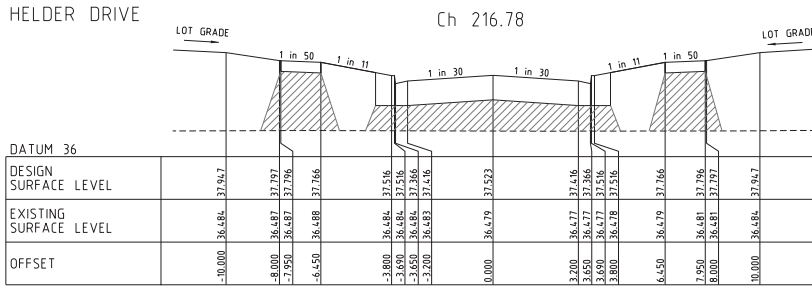
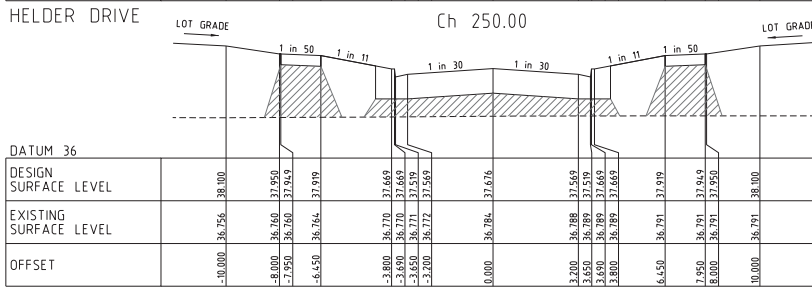
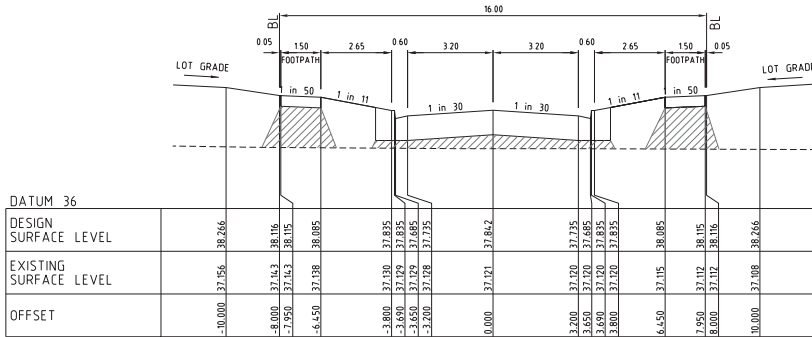
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R05

2



STRUCTURAL FILL



Rev	Amendments	Approved	Date
2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	BRANCH STREET SECTIONS ADDED	M.L.	16/10/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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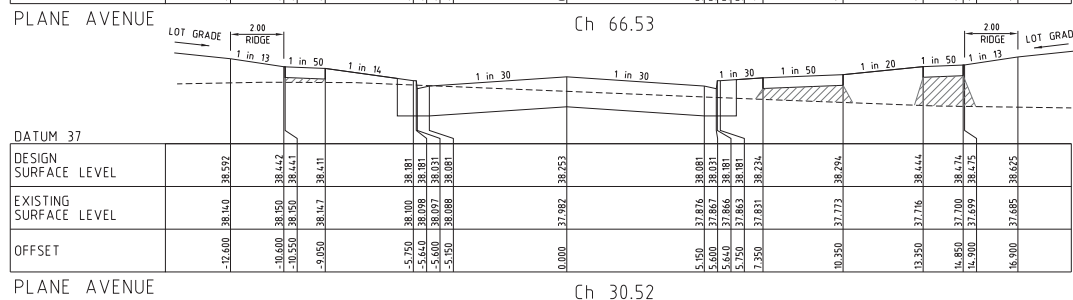
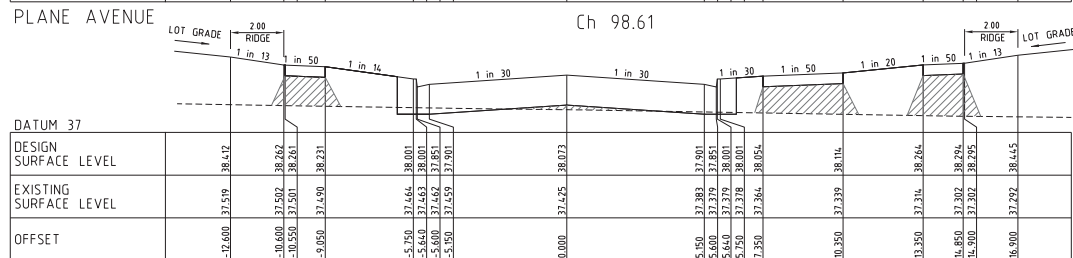
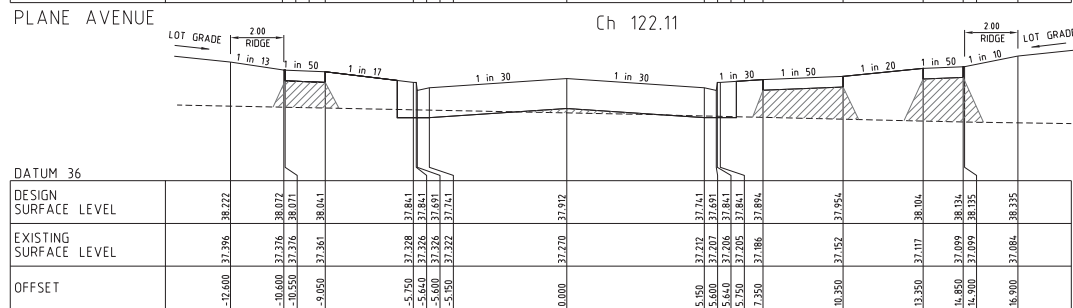
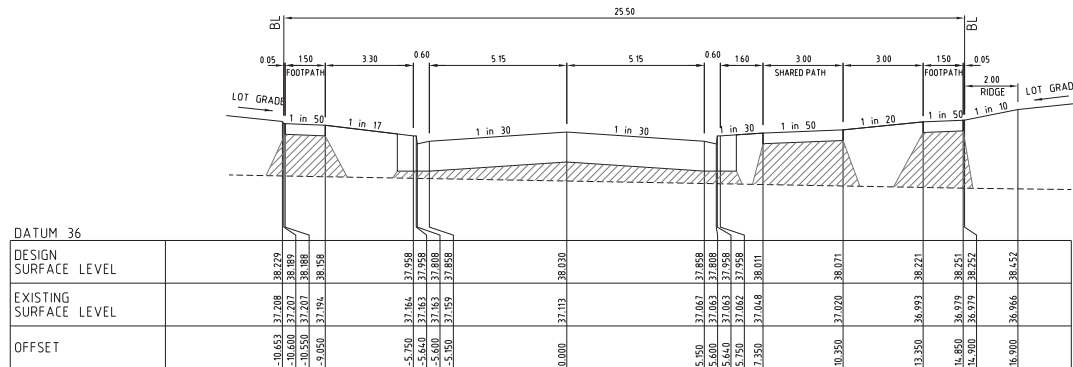
Checked M. LETCHON
Date 20/09/18

**MAMBOURIN ESTATE
STAGE 5
CROSS SECTIONS - HELDER DRIVE
& YARD STREET**
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

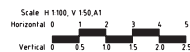
AS CONSTRUCTED 305170R06



STRUCTURAL FILL



1	AS CONSTRUCTED ISSUE	M.L.	18/06/20
0	CONSTRUCTION ISSUE	M.L.	13/11/18
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Date 20/09/18

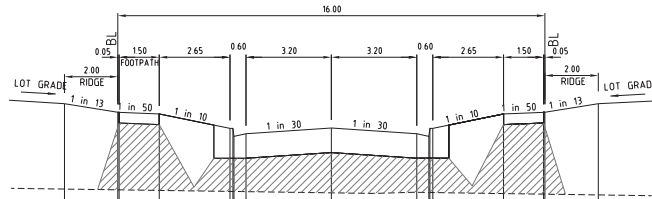
MAMBOURIN ESTATE
STAGE 5
CROSS SECTIONS - PLANE AVENUE

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R07



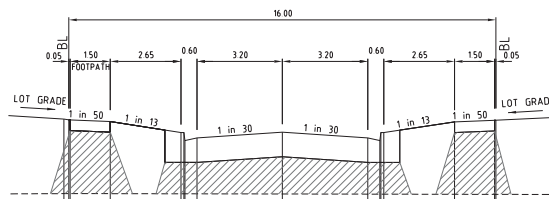
STRUCTURAL FILL



DATUM 35									
DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SURROUND DRIVE

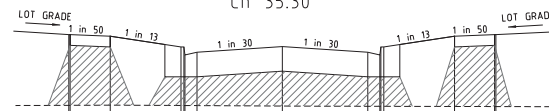
Ch 55.44



DATUM 35									
DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SURROUND DRIVE

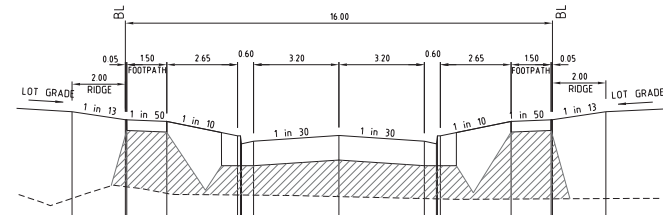
Ch 35.30



DATUM 35									
DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SURROUND DRIVE

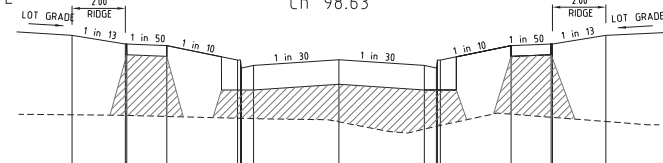
Ch 24.61



DATUM 34									
DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SURROUND DRIVE

Ch 98.63

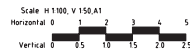


DATUM 34									
DESIGN SURFACE LEVEL									
EXISTING SURFACE LEVEL									
OFFSET									

SURROUND DRIVE

Ch 79.04

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	CROSS SECTIONS Ch24.61 & Ch35.30 UPDATED	M.L.	07-06-19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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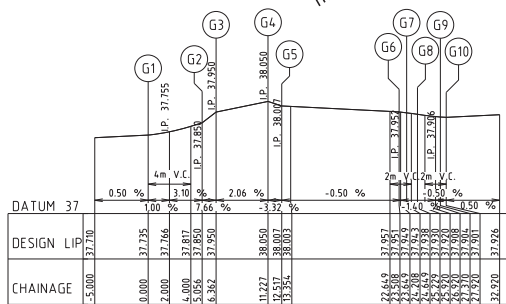
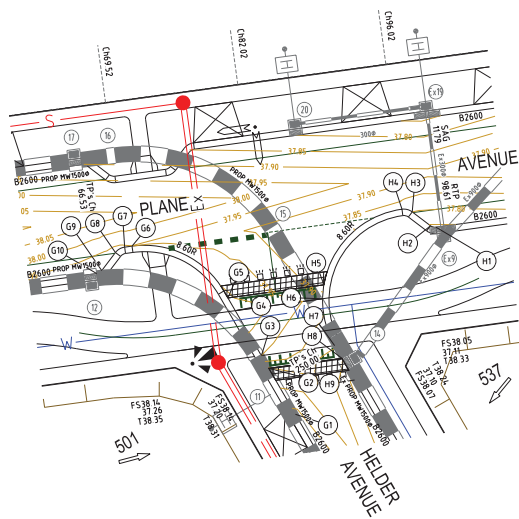
Checked
M. LETSON
Date
20/09/18

MAMBOURIN ESTATE
STAGE 5
CROSS SECTIONS - SURROUND DRIVE

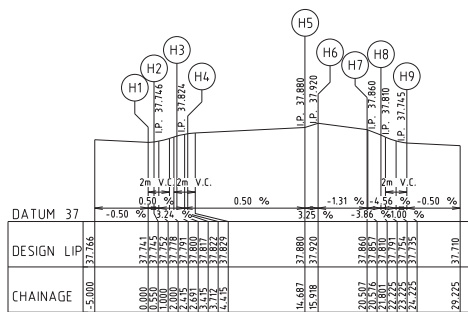
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R08

2



LIP LINE G
Hor250
Ver25



LIP LINE H
Hor250
Ver25



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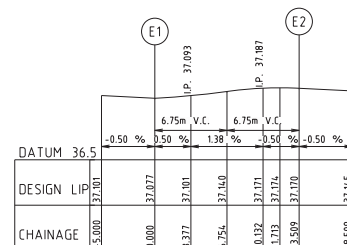
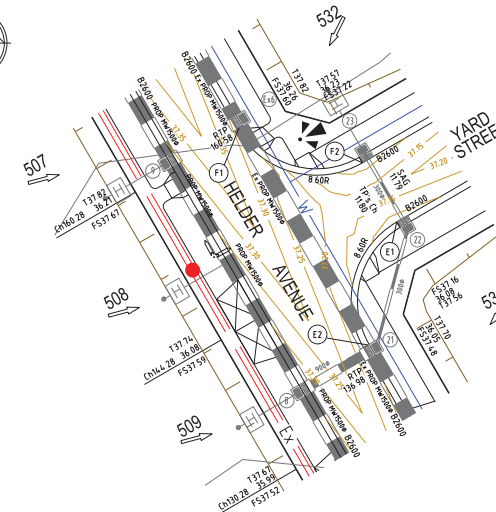


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Authorised
M. CAIRNEY

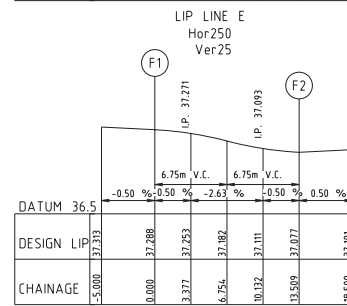
Checked
M. LETSON
Date
20/09/18

**MAMBOURIN ESTATE
STAGE 5
INTERSECTION DETAILS
SHEET 1 OF 2**
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R09

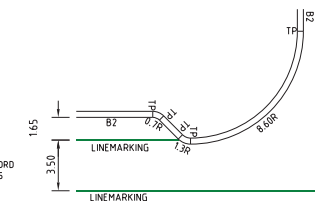


LIP LINE E
Hor250
Ver25



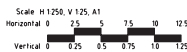
LIP LINE F
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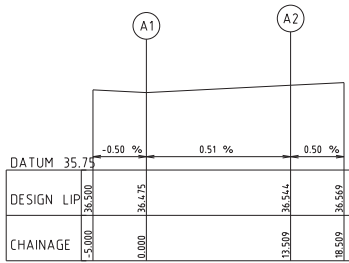
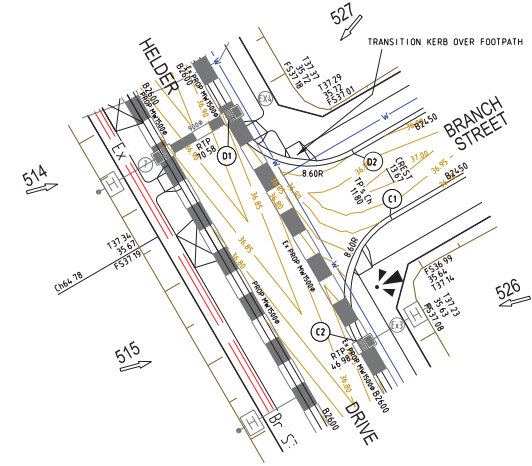
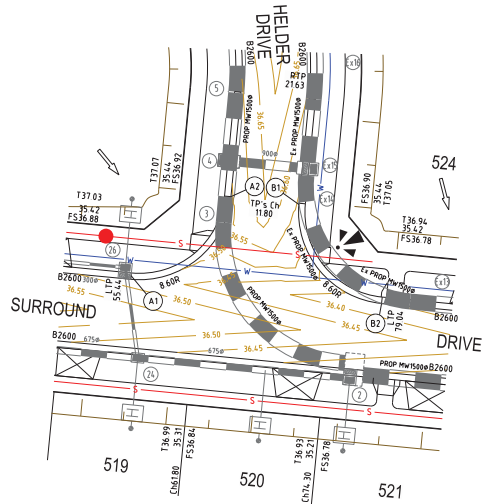
LIP LINE F
Hor250
Ver25



TYPICAL KERB INDENT DETAIL
N.T.S

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED ISSUE	M.L.	18/06/20
2	KERB TYPES LABELLED AS B2800	M.L.	16/10/19
1	PROPHYRY STONE ADDED TO RAISED PAVEMENT	M.L.	15/02/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



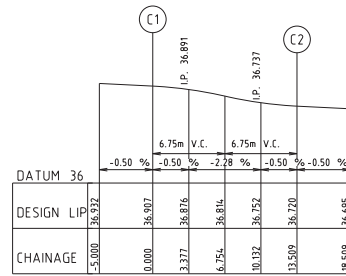


LIP LINE A
Hor250
Ver25

ALIGNMENT A

POINT NO	EASTING	NORTHING	RL
A1	288205.589	5803163.716	36.475
1/4	288208.927	5803164.052	36.492
1/2	288211.883	5803165.640	36.509
3/4	288214.007	5803168.239	36.527
A2	288214.974	5803171.452	36.544

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
A1-A2	8.600	13.509	12.162	2.519	-0.655

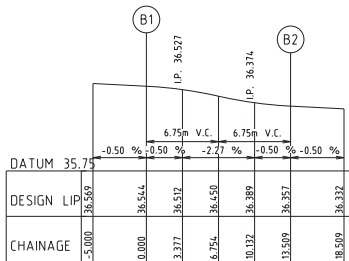


LIP LINE C
Hor250
Ver25

ALIGNMENT C

POINT NO	EASTING	NORTHING	RL
C1	288217.350	5803217.891	36.907
1/4	288214.832	5803215.673	36.876
1/2	288213.355	5803212.600	36.814
3/4	288213.143	5803209.311	36.752
C2	288214.229	5803206.136	36.720

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
C1-C2	8.600	13.509	12.162	2.519	-0.655

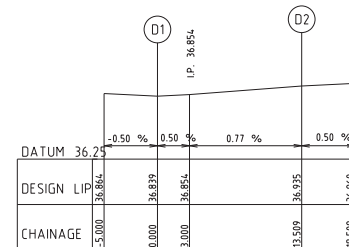


LIP LINE B
Hor250
Ver25

ALIGNMENT B

POINT NO	EASTING	NORTHING	RL
B1	288221.344	5803170.838	36.544
1/4	288221.480	5803167.500	36.512
1/2	288223.268	5803164.544	36.450
3/4	288225.867	5803162.420	36.389
B2	288229.080	5803161.453	36.357

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
B1-B2	8.600	13.509	12.162	2.519	-0.655

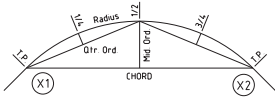


LIP LINE D
Hor250
Ver25

ALIGNMENT D

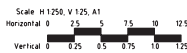
POINT NO	EASTING	NORTHING	RL
D1	288202.231	5803226.806	36.839
1/4	288204.449	5803224.289	36.857
1/2	288207.462	5803222.811	36.883
3/4	288210.811	5803222.600	36.909
D2	288213.986	5803223.686	36.935

CURVE	RADIUS	ARC L	CHORD	MID ORD	QTR ORD
D1-D2	8.600	13.509	12.162	2.519	-0.655



KERB RETURN SETOUT DETAIL

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED ISSUE	M.L.	18/06/20
2	KERB TYPE BRANCH STREET CHANGED TO B2450. LIP D REGRADED	M.L.	16/10/19
1	LOT S13 & LOT S14 UPDATED TO DOUBLE DRIVEWAY	M.L.	28/03/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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Designed
R. WEINBER
Authorised
M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

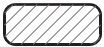
MAMBOURIN ESTATE
STAGE 5
INTERSECTION DETAILS
SHEET 2 OF 2

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R10

3

CRUSHED ROCK BACKFILL LEGEND



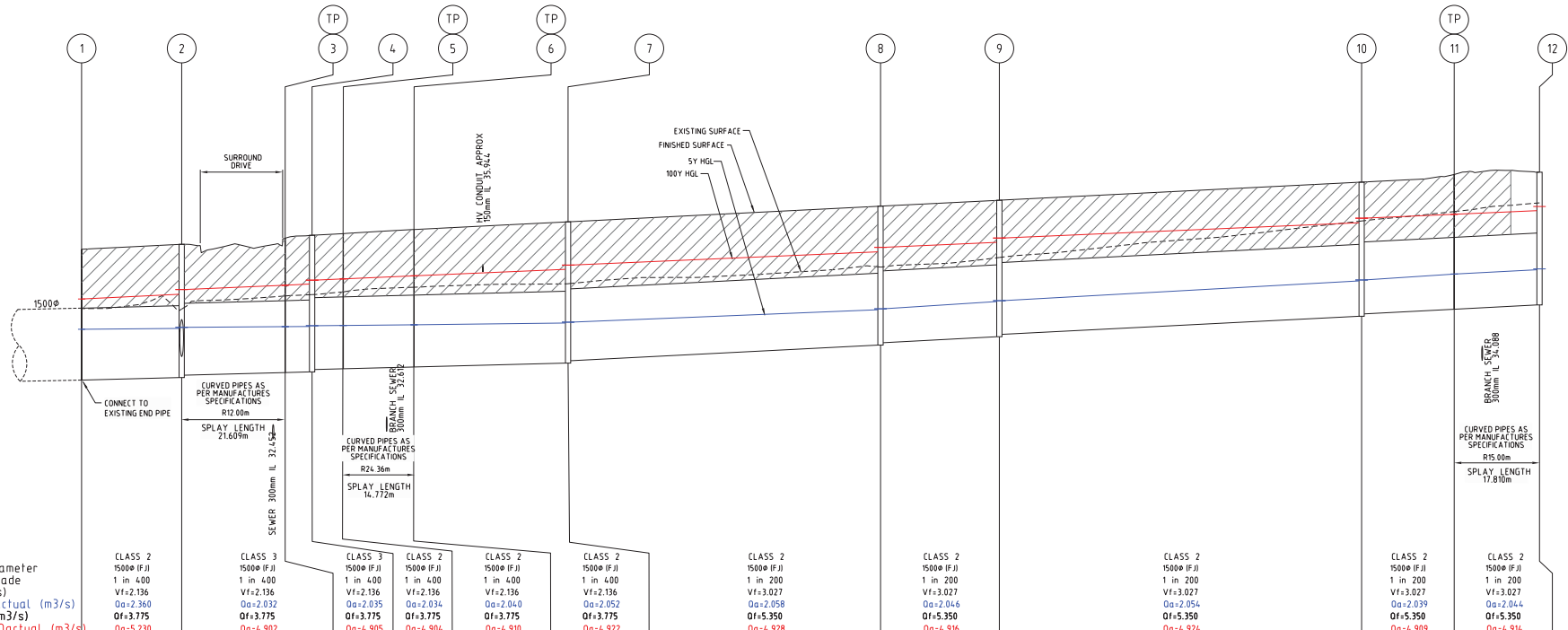
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

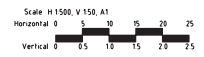
NOTE:

- 1 ALL PIPES TO BE RRJ DENOTES RUBBER RING JOINTED UNLESS NOTED OTHERWISE
- 2 DRAINAGE PIPES GREATER THAN 750P 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 SPLAY PIPES INSTALLED AS PER MANUFACTURES SPECIFICATION. RADIUS AND SPLAY LENGTHS PROVIDED FOR ORDERING PURPOSES



PIPE CLASS	PIPE GRADE	5YR Q ACTUAL (m3/s)	100YR Q ACTUAL (m3/s)	DATUM R.L.	DEPTH TO INVERT	DESIGN INVERT LEVEL	Q5 HYDRAULIC GRADE LEVEL	Q100 HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
CLASS 2	1500P (FJ)	Vf+2.136	Qf+3.775	28.00	2.279	33.681	34.719	35.512	36.410	35.173	L=20.886m
CLASS 3	1500P (FJ)	Vf+2.136	Qf+3.775	33.213	2.781	33.681	34.719	35.510	36.514	35.161	L=21.609m
CLASS 3	1500P (FJ)	Vf+2.032	Qf+4.902	33.681	2.804	33.681	34.719	35.661	36.641	35.635	L=5.610m
CLASS 3	1500P (FJ)	Vf+2.136	Qf+3.775	33.713	2.851	33.681	34.719	35.684	36.702	35.644	L=6.515m
CLASS 2	1500P (FJ)	Vf+2.136	Qf+3.775	33.901	2.801	33.901	34.814	35.765	36.782	35.693	L=14.772m
CLASS 2	1500P (FJ)	Vf+2.136	Qf+3.775	33.917	2.818	33.917	34.819	35.793	36.795	35.719	L=32.136m
CLASS 2	1500P (FJ)	Vf+2.136	Qf+4.922	33.917	2.818	33.917	34.819	35.793	36.795	35.719	L=65.200m
CLASS 2	1500P (FJ)	Vf+3.027	Qf+5.350	34.034	2.949	34.034	34.833	35.855	36.822	35.855	L=24.800m
CLASS 2	1500P (FJ)	Vf+3.027	Qf+4.916	34.410	2.899	34.410	34.600	35.448	36.430	35.448	L=75.601m
CLASS 2	1500P (FJ)	Vf+3.027	Qf+5.350	34.600	2.849	34.600	34.600	35.668	36.644	35.668	L=19.314m
CLASS 2	1500P (FJ)	Vf+3.027	Qf+5.350	34.584	2.819	34.584	34.584	35.655	36.644	35.655	L=17.810m
CLASS 2	1500P (FJ)	Vf+3.027	Qf+5.350	34.634	2.799	34.634	34.634	35.688	36.644	35.688	L=17.810m

2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	DRAINAGE HGL & PIPE Qs UPDATED	M.L.	07-06-19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date

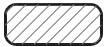


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FRASERS PROPERTY
 Designed
R. WEINBER
 Authorised
M. CAIRNEY
 Checked
M. LETSON
 Date
 20/09/18

**MAMBOURIN ESTATE
 STAGE 5
 DRAINAGE LONG SECTION
 SHEET 1 OF 3**
 FRASER PROPERTY AUSTRALIA
 WYNDHAM CITY COUNCIL
AS CONSTRUCTED 305170R11
 Drg No
 305170R11
 Rev
 2

CRUSHED ROCK BACKFILL LEGEND



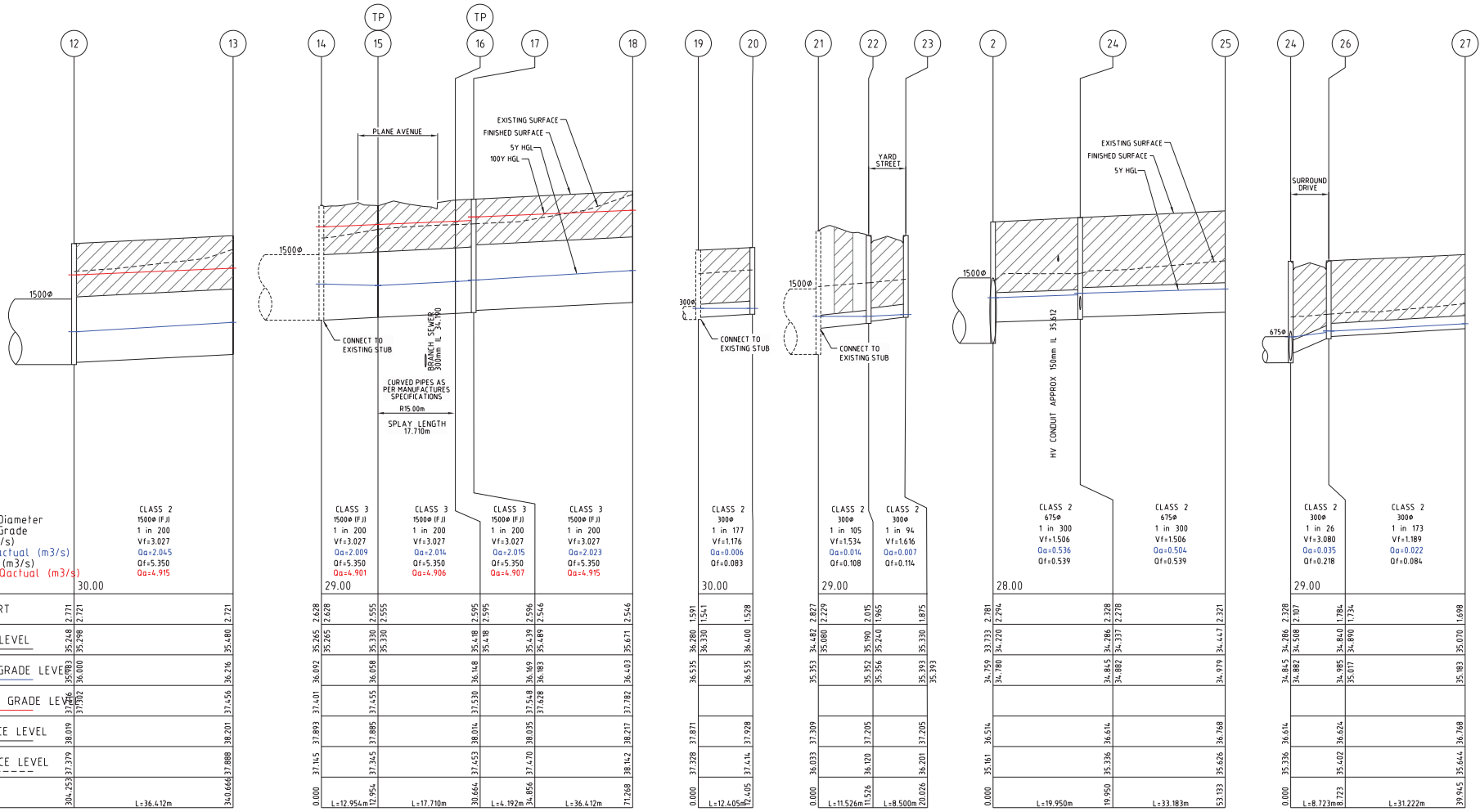
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

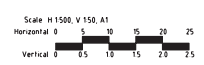
NOTE

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Station	Pipe Diameter	Grade	Vf (m/s)	Q _{actual} (m ³ /s)	Q _{full} (m ³ /s)	DATUM R.L.	DEPTH TO INVERT	DESIGN INVERT LEVEL	05 HYDRAULIC GRADE LEVEL	0100 HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
12	1500Ø	CLASS 2 1500Ø IFJ	1 in 200	3.027	04.915	30.00	2.71	27.29	27.29	27.29	27.29	27.29	L=36.412m
13	1500Ø	CLASS 2 1500Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=12.954m
14	300Ø	CLASS 3 300Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=17.710m
15	300Ø	CLASS 3 300Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=4.192m
16	300Ø	CLASS 3 300Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=36.412m
17	300Ø	CLASS 3 300Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=36.412m
18	300Ø	CLASS 3 300Ø IFJ	1 in 200	3.027	04.915	29.00	2.55	26.45	26.45	26.45	26.45	26.45	L=36.412m
19	300Ø	CLASS 2 300Ø	1 in 177	1.176	04.006	30.00	1.54	28.46	28.46	28.46	28.46	28.46	L=2.405m
20	300Ø	CLASS 2 300Ø	1 in 177	1.176	04.006	30.00	1.54	28.46	28.46	28.46	28.46	28.46	L=2.405m
21	300Ø	CLASS 2 300Ø	1 in 105	1.534	04.014	29.00	2.87	26.13	26.13	26.13	26.13	26.13	L=11.526m
22	300Ø	CLASS 2 300Ø	1 in 94	1.616	04.007	29.00	2.89	26.11	26.11	26.11	26.11	26.11	L=8.500m
23	300Ø	CLASS 2 300Ø	1 in 94	1.616	04.007	29.00	2.89	26.11	26.11	26.11	26.11	26.11	L=8.500m
24	1500Ø	CLASS 2 1500Ø IFJ	1 in 300	0.536	04.539	28.00	2.78	25.22	25.22	25.22	25.22	25.22	L=19.950m
25	1500Ø	CLASS 2 1500Ø IFJ	1 in 300	0.536	04.539	28.00	2.78	25.22	25.22	25.22	25.22	25.22	L=19.950m
26	675Ø	CLASS 2 675Ø	1 in 300	1.506	04.504	29.00	3.00	26.00	26.00	26.00	26.00	26.00	L=33.183m
27	675Ø	CLASS 2 675Ø	1 in 300	1.506	04.504	29.00	3.00	26.00	26.00	26.00	26.00	26.00	L=33.183m

3	AS CONSTRUCTED ISSUE	M.L.	18/06/20
2	PIT 2 TO 25 UPDATED	M.L.	20/06/19
1	PIT 12 TO 18 1500 DIA DRAINAGE HGL & PIPE Qa UPDATED.	M.L.	7/06/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date

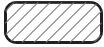


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FRASERS PROPERTY
 Designed
R. WEINBER
 Authorised
M. CAIRNEY
 Checked
M. LETSON
 Date
 20/09/18

**MANBOURIN ESTATE
 STAGE 5
 DRAINAGE LONG SECTION
 SHEET 2 OF 3**
 FRASER PROPERTY AUSTRALIA
 WYNDHAM CITY COUNCIL
 Org No
AS CONSTRUCTED 305170R12
 3

CRUSHED ROCK BACKFILL LEGEND



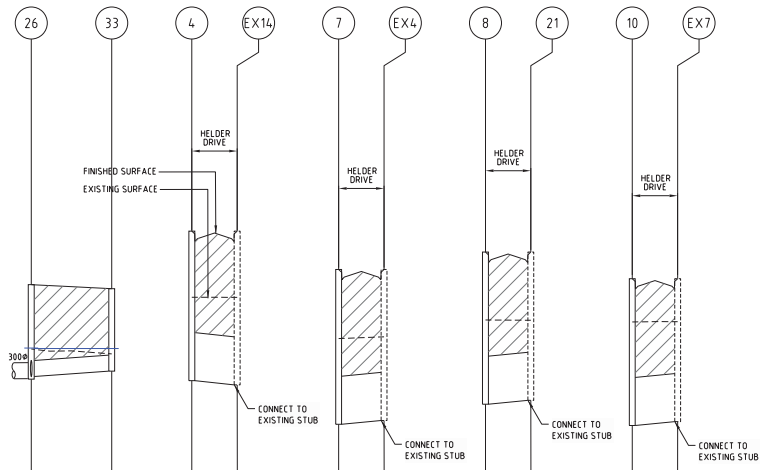
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

NOTE

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	26	33	4	EX14	7	EX4	8	21	10	EX7
Pipe Diameter	300Ø	300Ø	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)	900Ø (FJ)
Pipe Grade	1 in 151	1 in 151	1 in 107	1 in 107	1 in 118	1 in 118	1 in 118	1 in 118	1 in 118	1 in 118
Vf (m/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Qactual (m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Qfull (m3/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
DATUM R.L.	29.00	29.00	28.00	28.00	29.00	29.00	29.00	29.00	30.00	30.00
DEPTH TO INVERT	1.769	1.719	2.881	2.881	2.899	2.899	2.849	2.777	2.749	2.677
DESIGN INVERT LEVEL	34.930	34.980	33.901	33.901	34.084	34.084	34.460	34.532	35.062	35.194
HYDRAULIC GRADE LEVEL	35.076	35.111	33.901	33.901	34.084	34.084	34.460	34.532	35.062	35.194
FINISHED SURFACE LEVEL	36.699	36.624	36.702	36.702	36.883	36.883	37.309	37.309	37.811	37.811
EXISTING SURFACE LEVEL	35.494	35.402	35.461	35.461	35.773	35.773	36.033	36.033	37.006	37.006
CHAINAGE	0.000	15.079m	0.000	8.490m	0.000	8.500m	0.000	8.500m	0.000	8.500m

Rev	Amendments	Approved	Date
1	AS CONSTRUCTED ISSUE	M.L.	18/06/20
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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Designed by R. WEINBER
Authorised by M. CAIRNEY

Checked by M. LETSON
Date: 20/09/18

**MAMBOURIN ESTATE
STAGE 5
DRAINAGE LONG SECTION
SHEET 3 OF 3**

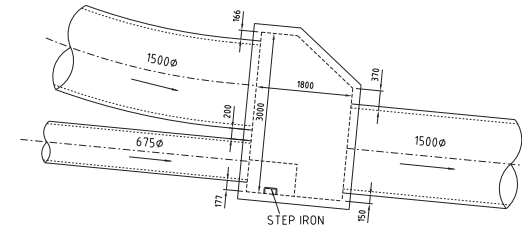
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

Org No 305170R13
Rev 1

AS CONSTRUCTED

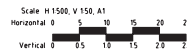
DRAINAGE PIT SCHEDULE - STAGE 5

PIT No	PIT TYPE	INTERNAL		INLET		OUTLET		FINISHED COVER RL	DEPTH	REMARKS
		LENGTH	WIDTH	DIA	INV LEV	DIA	INV LEV			
1	END PIPE			1500	33.68			6.410	2.729	CONNECT TO EXISTING END PIPE CONSTRUCTED WITH STAGE 2 WORKS
2	SIDE ENTRY PIT GRATED	1800	3000	1500	33.78	1500	33.733	6.514	2.781	REFER SHEET 14 FOR PIT DETAILS & REFER TO STRUCTURE DETAILS PLAN
				675	34.22					
3	TANGENT POINT			1500	33.84	1500	33.837	6.641	2.804	PIPE TANGENT POINT
4	SIDE ENTRY PIT GRATED	1200	1900	1500	33.90	1500	33.851	6.702	2.851	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
				900	33.90					INCOMING BALANCE PIPE 900 DIA
5	TANGENT POINT			1500	33.92	1500	33.917	6.735	2.818	PIPE TANGENT POINT
6	TANGENT POINT			1500	33.95	1500	33.954	6.822	2.868	PIPE TANGENT POINT
7	SIDE ENTRY PIT GRATED	1200	1900	1500	34.08	1500	34.034	6.983	2.949	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
				900	34.08					INCOMING BALANCE PIPE 900 DIA
8	SIDE ENTRY PIT GRATED	1200	1900	1500	34.48	1500	34.41	7.309	2.899	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
				900	34.48					INCOMING BALANCE PIPE 900 DIA
9	SIDE ENTRY PIT GRATED	1200	1900	1500	34.63	1500	34.584	7.433	2.849	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
10	SIDE ENTRY PIT GRATED	1200	1900	1500	35.06	1500	35.012	7.811	2.799	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
				900	35.06					INCOMING BALANCE PIPE 900 DIA
11	TANGENT POINT			1500	35.18	1500	35.159	7.970	2.811	PIPE TANGENT POINT
12	SIDE ENTRY PIT GRATED	1200	1900	1500	35.30	1500	35.248	8.019	2.771	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
13	END PIPE			1500	35.48	1500	35.48	8.201	2.721	BLANK END WITH TIMBER
14	END PIPE			1500	35.27	1500	35.27	7.891	2.626	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE 3 WORKS
15	TANGENT POINT			1500	35.33	1500	35.33	7.884	2.554	PIPE TANGENT POINT
16	TANGENT POINT			1500	35.42	1500	35.418	8.014	2.595	PIPE TANGENT POINT
17	SIDE ENTRY PIT GRATED	1200	1900	1500	35.49	1500	35.439	8.035	2.596	REFER DRAWING - EDCM 601 - PIT TO BE HAUNCHED REFER EDCM 607 (PROVIDE HAUNCHING UNDER KERB)
18	END PIPE			1500	35.671	1500	35.671	8.217	2.546	BLANK END WITH TIMBER
19	END PIPE			300	38.33	300	38.4	7.871	1.591	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE 3 WORKS
20	SIDE ENTRY PIT GRATED	900	600	300	35.08	300	35.08	7.928	1.528	REFER DRAWING - EDCM 601
21	END PIPE			300	35.24	300	35.33	7.205	1.875	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE 3 WORKS
22	SIDE ENTRY PIT GRATED	900	600	300	35.24	300	35.33	7.205	1.875	REFER DRAWING - EDCM 601
23	SIDE ENTRY PIT GRATED	900	600	300	35.24	300	35.33	7.205	1.875	REFER DRAWING - EDCM 601
24	JUNCTION PIT	900	900	675	34.34	675	34.286	6.614	2.328	REFER DRAWING - EDCM 605 (PROVIDE HAUNCHING UNDER KERB)
				300	34.51					
25	END PIPE			675	34.447	675	34.447	6.788	2.321	BLANK END WITH TIMBER
26	SIDE ENTRY PIT GRATED	900	600	300	34.89	300	34.84	6.624	1.784	REFER DRAWING - EDCM 601
27	END PIPE			300	35.07	300	35.07	6.788	1.688	BLANK END WITH TIMBER



CONCRETE DETAILS
PLAN - SIDE ENTRY PIT 2
SCALE 1:250

4	AS CONSTRUCTED ISSUE	M.L.	18/06/20
3	PIT SCHEDULE UPDATED - PITS 4 / 7 / 8 / 9 / 10 / 12 & 17	M.L.	2-12-19
2	PIT SCHEDULE UPDATED	M.L.	20-06-19
1	PIT SCHEDULE UPDATED	M.L.	07/06/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18
Rev	Amendments	Approved	Date



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M. CAIRNEY

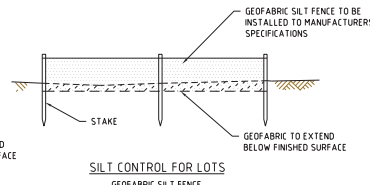
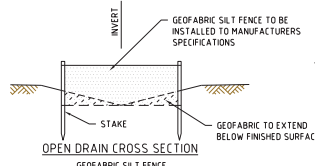
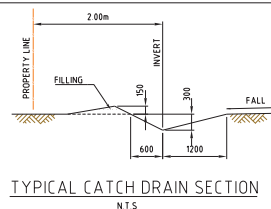
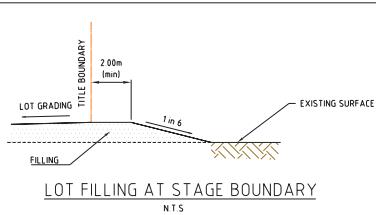
Checked
M. LETSON
Date
20/09/18

**MAMBOURIN ESTATE
STAGE 5
PIT SCHEDULE & PIT 2 DETAIL**

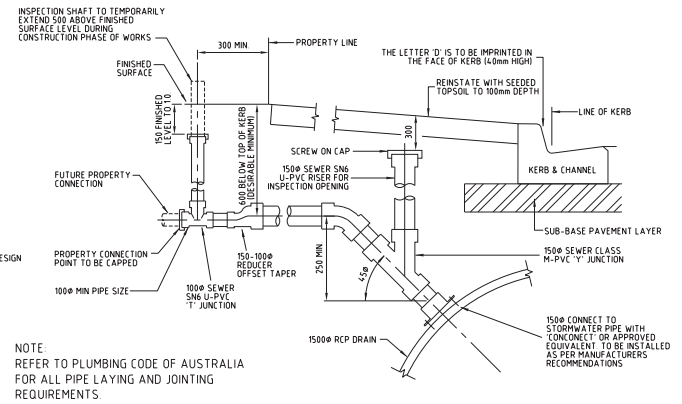
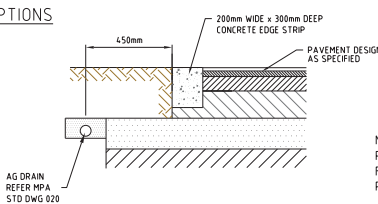
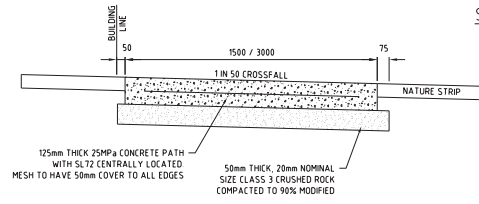
FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R14

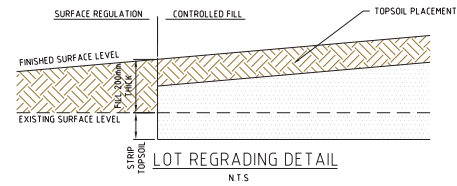
Rev
4



SILT CONTROL OPTIONS NOT TO SCALE



NOTE:
REFER TO PLUMBING CODE OF AUSTRALIA
FOR ALL PIPE LAYING AND JOINTING
REQUIREMENTS.



TYPICAL RESIDENTIAL FOOTPATH CROSS SECTION
N.T.S.

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

TYPICAL CROSS SECTION
NOT TO SCALE

DESIGN PAVEMENT PROFILE FOR CONNECTOR STREET

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	CONNECTOR STREET	
A	ASPHALT WEARING COURSE Size 14 Type N Asphalt	40		
B	ASPHALT STRUCTURAL COURSE Size 20 Type SI Asphalt	60		
D	BASE Size 20 Type SI Asphalt	90		
UPPER PAVEMENT TOTAL		190		
E	UPPER SUBBASE 20mm 3% Cement Treated Crushed Rock (E=500MPa)	120		
F	LOWER SUBBASE Class 3 Crushed Rock (Size 20mm) Compacted in 2 layers	100		
G	CAPPING LAYER Type A - Working platform achieving CBR = 5%, Properties CBR >15.0%, Swell +15 %, Permeability < 1E-9 m/s (Thickness to be confirmed during construction)	305		
TOTAL PAVEMENT DEPTH		715		

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

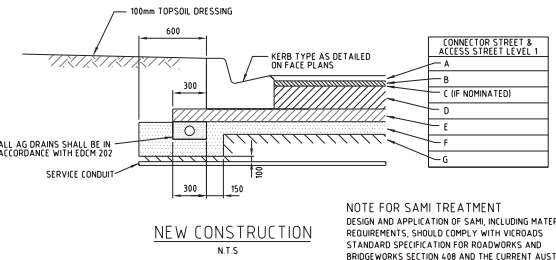
DESIGN PAVEMENT PROFILE FOR ACCESS STREET LEVEL 1

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)	ACCESS STREET LVL 1	
A	ASPHALT WEARING COURSE Size 10mm Type N Asphalt	30		
B	ASPHALT STRUCTURAL COURSE Size 10mm Type N Asphalt	30		
C	Prime Coat and SAMI treatment (Size 10 S18RF) approximately 10mm thick	0		
D	BASE Class 2 Crushed Rock (Size 20mm)	130		
UPPER PAVEMENT TOTAL		190		
E	UPPER SUBBASE Class 2 Crushed Rock (Size 20mm)	100		
F	LOWER SUBBASE Class 3 Crushed Rock (Size 20mm) Compacted in 2 layers	150		
G	CAPPING LAYER Type A - Working platform achieving CBR = 5%, Properties CBR >15.0%, Swell +15 %, Permeability < 1E-9 m/s (Thickness to be confirmed during construction)	160		
TOTAL PAVEMENT DEPTH		600		

NOTE:
REFER TO SITE GEOTECHNICAL PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION INCLUDING PAVEMENT DESIGN, FILL SPECIFICATION AND RECOMMENDATIONS FOR SEWERS, RETAINING WALLS AND WETLANDS" FOR COMPACTION DETAILS.
BASED UPON A CONTROLLED FILL CBR OF 2%.

ROAD TYPE DESIGNATIONS

ROAD NAME	ROAD PAVEMENT TYPE
PLANE AVENUE	CONNECTOR STREET
SURROUND DRIVE	ACCESS STREET LVL 1
HELDER DRIVE	ACCESS STREET LVL 1
YARD STREET	ACCESS STREET LVL 1
BRANCH STREET	ACCESS STREET LVL 1



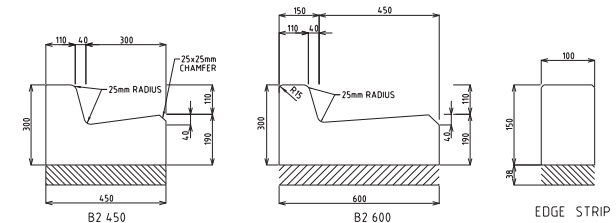
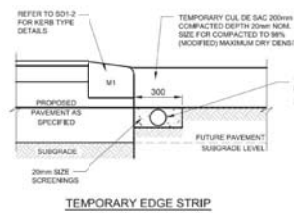
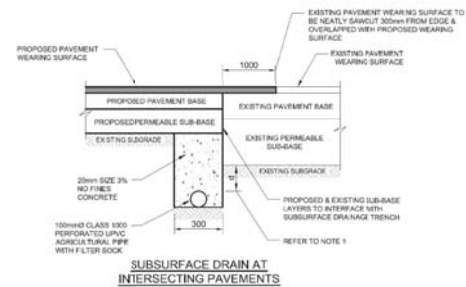
NOTE FOR SAMI TREATMENT
DESIGN AND APPLICATION OF SAMI, INCLUDING MATERIAL REQUIREMENTS, SHOULD COMPLY WITH VERDEAS STANDARD SPECIFICATION FOR ROADWORKS AND BRIDGEWORKS SECTION 4.08 AND THE CURRENT AUSTRROADS SPRAYED SEAL DESIGN METHOD

PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE SITE GEOTECHNICAL 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 SITE GEOTECHNICAL PTY LTD AND SENT TO SPIIRE.



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
3	AS CONSTRUCTED ISSUE	M.L.	18/06/20
2	AG DRAIN BACKFILL NOTE REMOVED	M.L.	21/2/19
1	KERB TYPES UPDATED	M.L.	16/10/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18

NOT TO SCALE



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Designed
R. WEINBER
Authorised
M. CAIRNEY

Checked
M. LETSON
Date
20/09/18

**MAMBOURIN ESTATE
STAGE 5
PAVEMENT & TYPICAL DETAILS**

FRASER PROPERTY AUSTRALIA
WYNDHAM CITY COUNCIL

AS CONSTRUCTED 305170R15

Rev
3



LEGEND

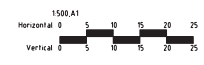
- S1 STREET NAME PLATES TO BE IN ACCORDANCE WITH WCC SDB12, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- S2 R1-2A
- S3 W6-9
- S4 W6-9
- S5 W6-9
- S6 G9-20
- S7 D4-5
- TGSi KERB RAMP
- TGSi DIRECTIONAL
- 1-WAY RRPm (5m SPACING)

BIKE PATH CONTRASTING SURFACE COLOUR:
 FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN USE GREEN EPOXY MODIFIED ACRYLIC COATING WITH A NON SLIP SURFACE.

TGSi ARE SHOWN INDICATIVELY AT INTERSECTIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS AND AS 1428.4.1

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

Rev	Amendments	Approved	Date
4	AS CONSTRUCTED ISSUE	M.L.	18/06/20
3	LOT LAYOUT UPDATED.	M.L.	6/07/19
2	LOT 513 & LOT 514 UPDATED TO DOUBLE DRIVEWAY	M.L.	28/03/19
1	PROPHRY STONE ADDED TO RAISED PAVEMENT	M.L.	15/02/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



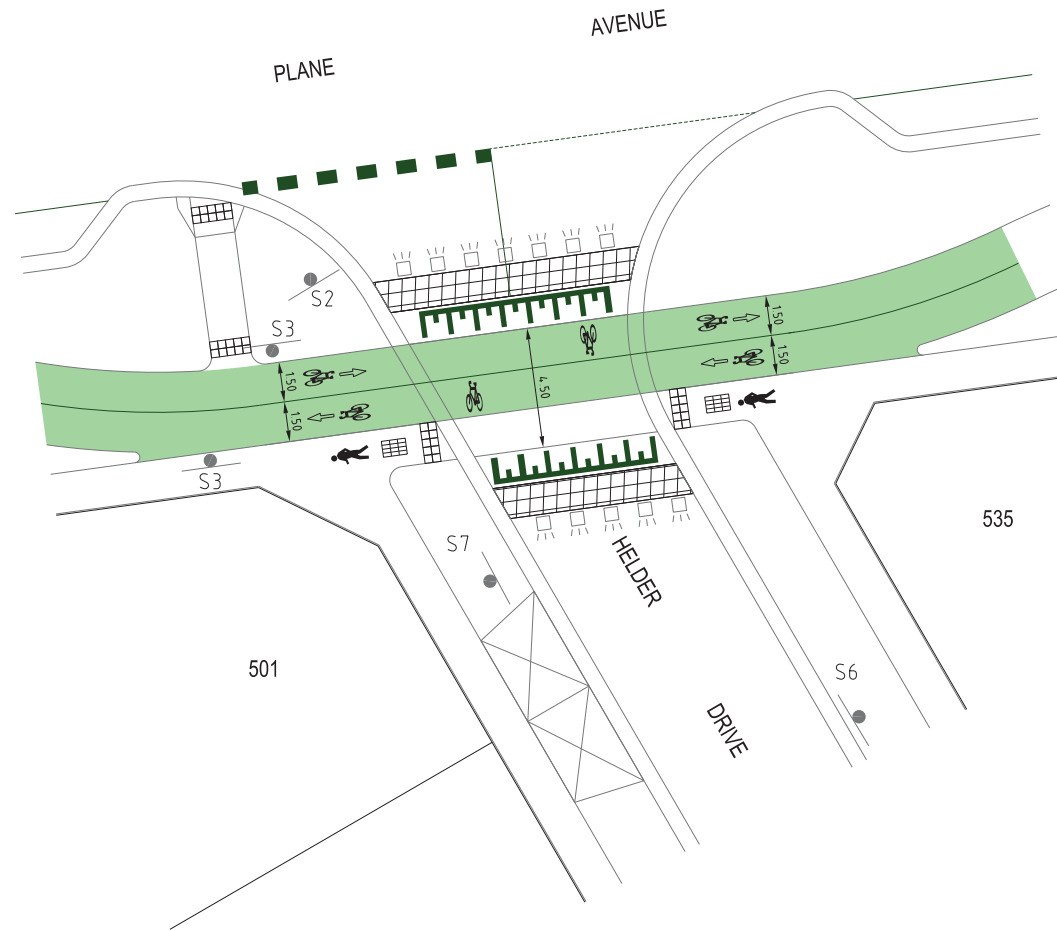
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 Authorised M. CAIRNEY

Checked M. LETSON
 Date 20/09/18

MAMBOURIN ESTATE STAGE 5
SIGNAGE & LINEMARKING
 FRASER PROPERTY AUSTRALIA
 WYNDHAM CITY COUNCIL
AS CONSTRUCTED 305170R16



LEGEND

- S1 STREET NAME PLATES TO BE IN ACCORDANCE WITH MCC SB872, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE
- S2 R1-2A
- S3 W6-9
- S4 W6-9
- S5 W6-9
- WB-23 WB-23
- WB-3A WB-3A
- WB-35L WB-35L
- WB-35R WB-35R
- G9-20 G9-20
- D4-5 D4-5

BIKE PATH CONTRASTING SURFACE COLOUR
 FOR ENHANCED VISIBILITY AT ALL ROAD CROSSINGS AND DRIVEWAY CROSSINGS AS SHOWN. USE GREEN EPOXY MODIFIED ACRYLIC COATING WITH A NON-SLIP SURFACE.

- TGSI KERB RAMP TGSI ARE SHOWN INDICATIVELY AT INTERSECTIONS AND SHALL BE INSTALLED IN ACCORDANCE WITH DISABILITY DISCRIMINATION ACT AND RELEVANT COUNCIL STANDARD DRAWINGS AND AS 1428.1
- TGSI DIRECTIONAL 1-WAY RRPM (5m SPACING)

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

Rev	Amendments	Approved	Date
2	AS CONSTRUCTED ISSUE	M.L.	18/06/20
1	PROPHYRY STONE ADDED TO RAISED PAVEMENT	M.L.	15/02/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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 M. CAIRNEY

Checked
 M. LETSON
 Date
 20/09/18

**MAMBOURIN ESTATE
 STAGE 5
 LINEMARKING DETAIL**

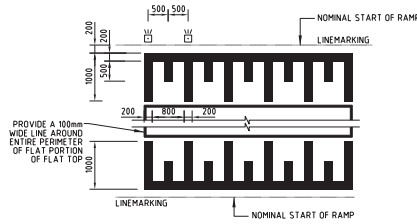
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AS CONSTRUCTED Dwg No 305170R17 Rev 2

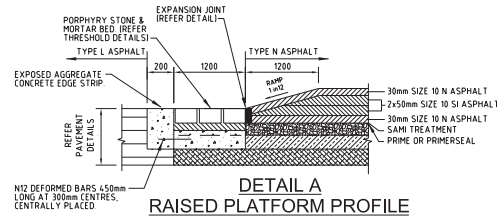


BASALT PORPHYRY STONE
(90x90mm WITH 10-15mm MORTAR GAP)

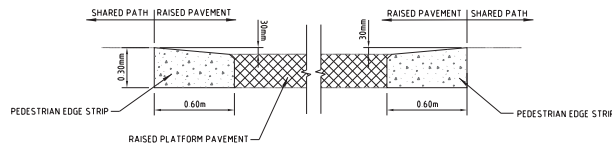
NOTE
CONTRACTOR TO PROVIDE 1m SQUARE SAMPLE OF BOTH SURFACES TO SUPER INTENDENT FOR APPROVAL BEFORE CONSTRUCTION WORK CAN COMMENCE



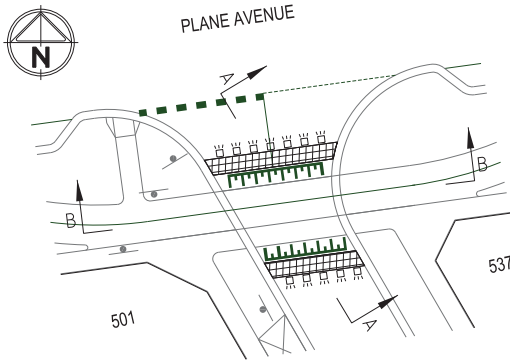
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NOT TO SCALE



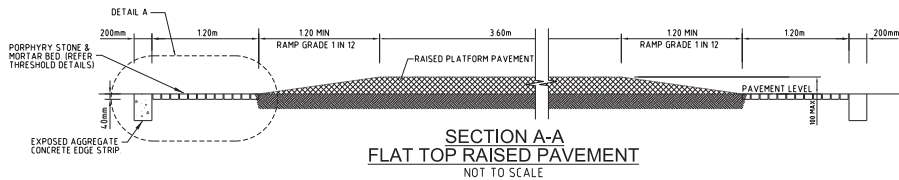
DETAIL A
RAISED PLATFORM PROFILE
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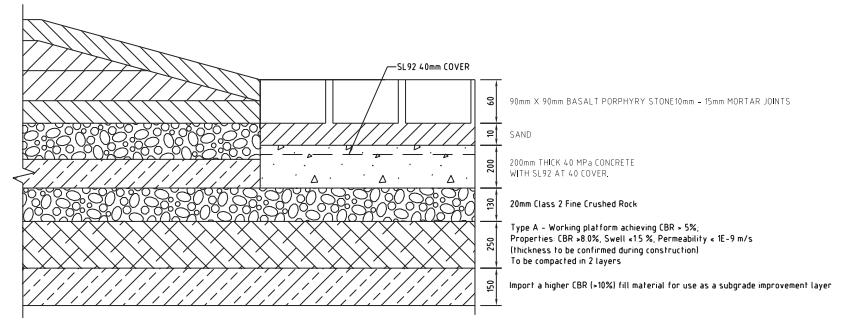
SECTION B-B
NOT TO SCALE



PLAN
FLAT TOP ROAD HUMPS
(PLANE AVENUE)



SECTION A-A
FLAT TOP RAISED PAVEMENT
NOT TO SCALE



PORPHYRY STONE THRESHOLD DETAILS
NOT TO SCALE

Rev	Amendments	Approved	Date
3	AS CONSTRUCTED ISSUE	M.L.	18/06/20
2	PORPHYRY STONE PAVEMENT DETAILS UPDATED	M.L.	7/06/19
1	PORPHYRY STONE DETAILS ADDED	M.L.	15/02/19
0	CONSTRUCTION ISSUE	M.L.	13/11/18



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MAMBOURIN ESTATE
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3