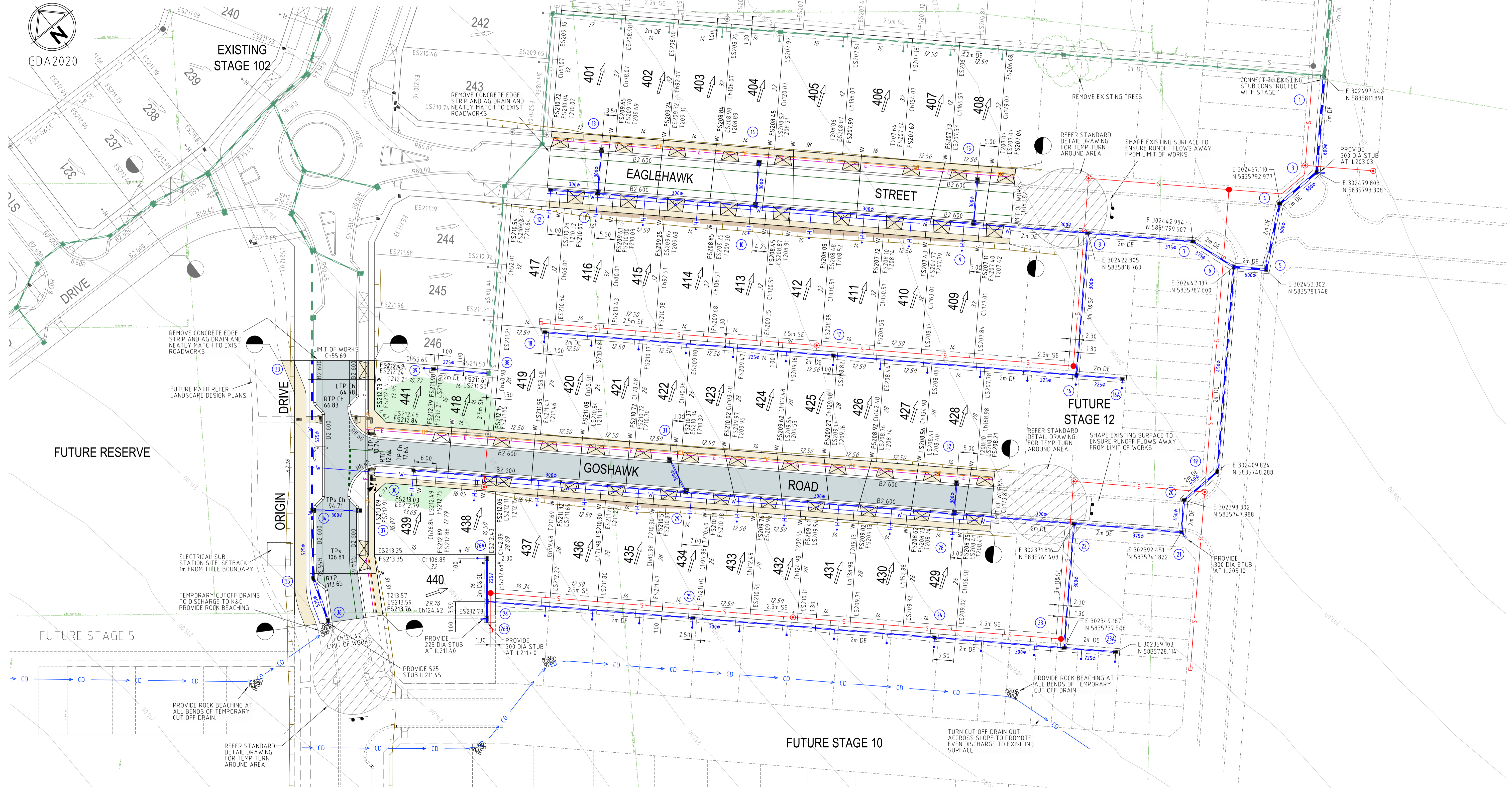


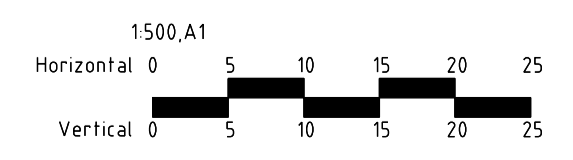
SERVICE OFFSETS AND LOCATION TABLE

ROAD NAME	POTABLE WATER		ELECTRICITY				TELECOM	
	SIDE	OFFSET	POLE SIDE	POLE OFFSET	U/G CABLE SIDE	U/G CABLE OFFSET	SIDE	OFFSET
ORIGIN DRIVE	N	2.60	S	0.90*	S	2.30	S	1.80
EAGLEHAWK STREET	W	3.60	E	0.90*	E	2.30	E	1.80
GOSHAWK ROAD	W	2.60	E	0.90*	E	2.30	E	1.80

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



Rev	Amendments	Approved	Date
4	GAS REMOVED, GAS REMOVED FROM SERVICE OFFSET TABLE	M.T.S	30/04/21
3	DRAIN / SEWER OFFSET DIMENSIONS ADDED	M.T.S	25/04/21
2	OUTFALL DRAINAGE ALIGNMENT / FUTURE LOT LAYOUT UPDATED	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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Communities Designed for Living

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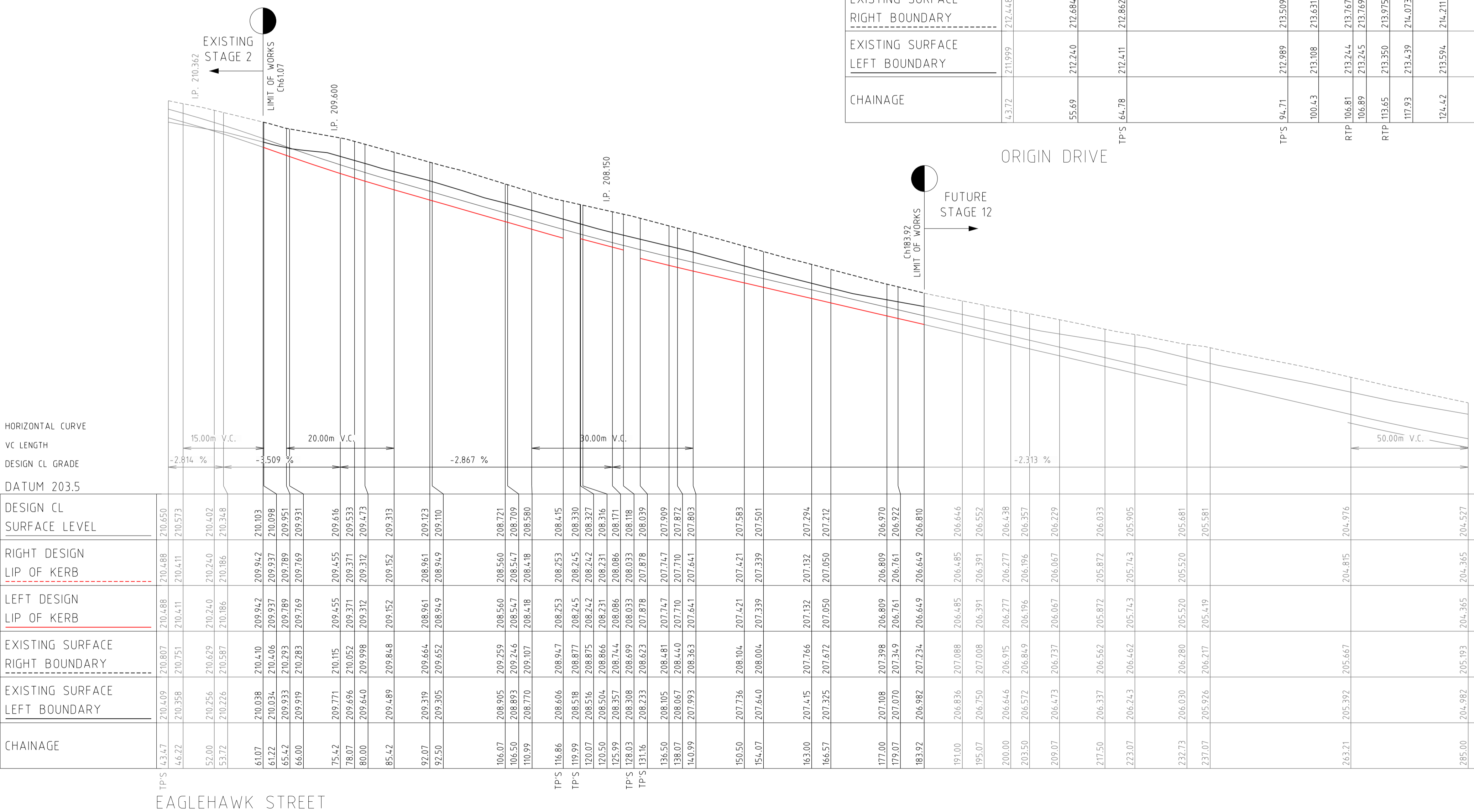
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 Date 4/05/20

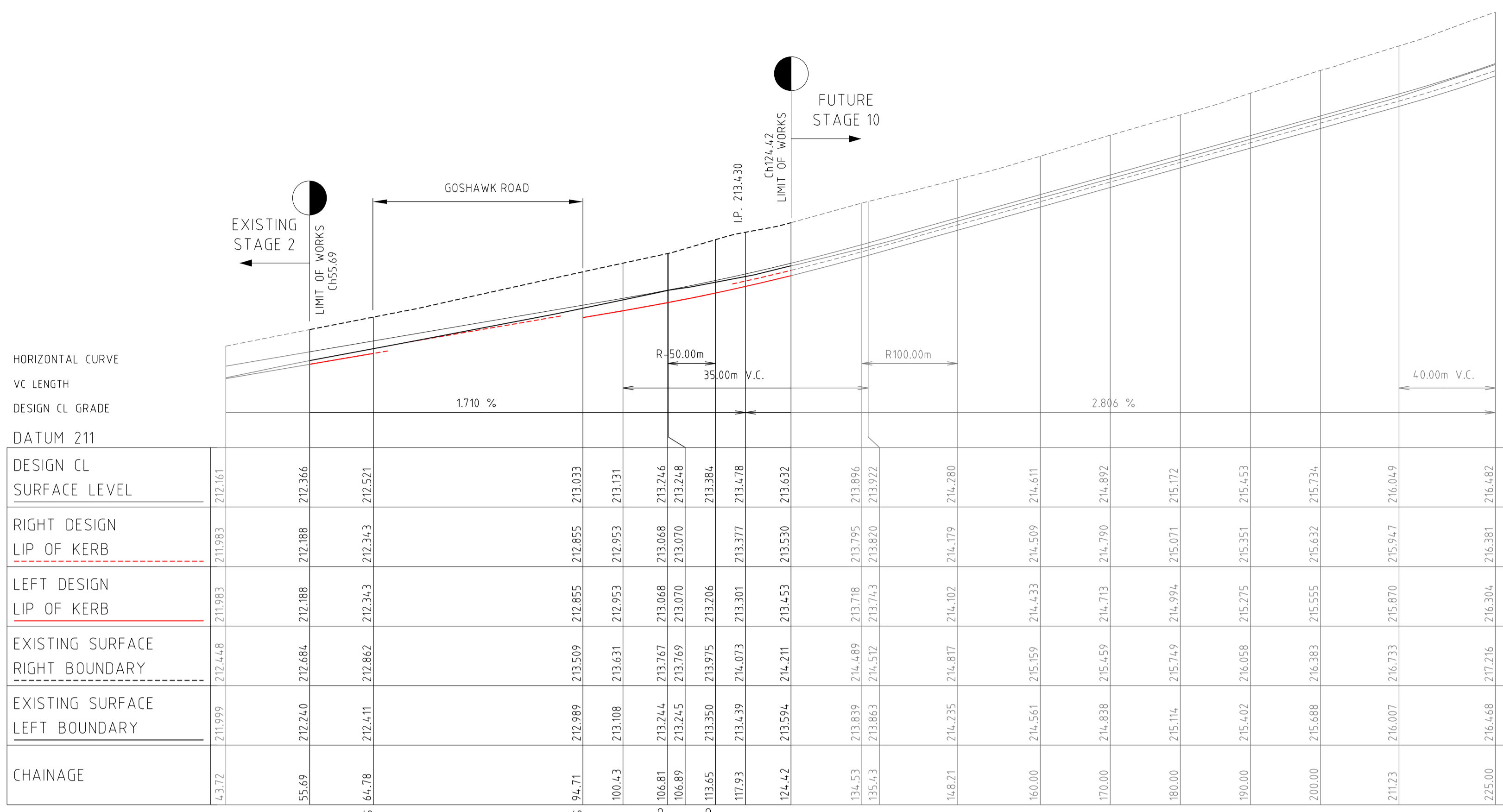
REDSTONE ESTATE
STAGE 4
ROAD AND DRAINAGE FACE PLAN

 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

CONSTRUCTION Drg No 305915R02 Rev 4

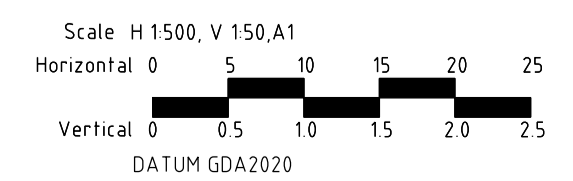


CHAINAGE	EXISTING SURFACE LEFT BOUNDARY	EXISTING SURFACE RIGHT BOUNDARY	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
43.47	210.409	210.807	210.411	210.488	210.650
46.22	210.358	210.751	210.411	210.411	210.573
52.00	210.256	210.629	210.240	210.240	210.402
53.72	210.226	210.587	210.186	210.186	210.348
61.07	210.038	210.410	209.942	209.942	210.093
61.22	210.034	210.406	209.937	209.937	210.098
65.42	209.933	210.293	209.789	209.789	209.951
66.00	209.919	210.283	209.769	209.769	209.931
75.42	209.771	210.115	209.455	209.455	209.616
78.07	209.696	210.052	209.371	209.371	209.533
80.00	209.640	209.998	209.312	209.312	209.473
85.42	209.489	209.848	209.152	209.152	209.313
92.07	209.319	209.664	208.861	208.861	208.132
92.50	209.305	209.652	208.849	208.849	209.110
106.07	208.905	209.259	208.560	208.560	208.721
106.50	208.893	209.246	208.547	208.547	208.709
110.99	208.770	209.107	208.418	208.418	208.580
116.86	208.606	208.947	208.253	208.253	208.415
119.99	208.518	208.877	208.245	208.245	208.330
120.07	208.516	208.875	208.242	208.242	208.327
120.50	208.504	208.866	208.231	208.231	208.316
125.99	208.357	208.744	208.086	208.086	208.171
128.03	208.308	208.699	208.033	208.033	208.118
131.16	208.233	208.623	207.878	207.878	208.039
136.50	208.105	208.481	207.747	207.747	207.909
138.07	208.067	208.440	207.710	207.710	207.872
140.99	207.993	208.363	207.641	207.641	207.803
150.50	207.736	208.104	207.421	207.421	207.583
154.07	207.640	208.004	207.339	207.339	207.501
163.00	207.415	207.766	207.132	207.132	207.284
166.57	207.395	207.672	207.050	207.050	207.212
177.00	207.108	207.398	206.809	206.809	206.970
179.07	207.070	207.349	206.761	206.761	206.922
183.92	206.982	207.234	206.649	206.649	206.810
191.00	206.836	207.088	206.485	206.485	206.646
195.07	206.750	207.008	206.391	206.391	206.552
200.00	206.646	206.915	206.277	206.277	206.438
203.50	206.572	206.849	206.196	206.196	206.357
209.07	206.473	206.737	206.067	206.067	206.279
217.50	206.337	206.562	205.872	205.872	206.033
223.07	206.243	206.462	205.743	205.743	205.905
232.73	206.030	206.280	205.520	205.520	205.681
237.07	205.926	206.217	205.419	205.419	205.581
263.21	205.392	205.667	204.815	204.815	204.976
285.00	204.982	205.193	204.365	204.365	204.527



CHAINAGE	EXISTING SURFACE LEFT BOUNDARY	EXISTING SURFACE RIGHT BOUNDARY	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
43.72	211.999	212.448	211.983	211.983	212.161
55.69	212.240	212.664	212.088	212.088	212.366
64.78	212.411	212.862	212.343	212.343	212.521
94.71	212.989	213.509	212.855	212.855	213.033
100.43	213.108	213.631	212.953	212.953	213.131
106.81	213.244	213.767	213.068	213.068	213.246
106.89	213.245	213.769	213.070	213.070	213.248
113.65	213.350	213.975	213.206	213.206	213.384
117.93	213.439	214.073	213.301	213.377	213.478
124.42	213.594	214.211	213.453	213.530	213.632
134.53	213.839	214.489	213.718	213.795	213.896
135.43	213.863	214.512	213.743	213.820	213.922
148.21	214.235	214.817	214.102	214.179	214.280
160.00	214.561	215.159	214.433	214.509	214.611
170.00	214.838	215.459	214.713	214.790	214.892
180.00	215.114	215.749	214.994	215.071	215.172
190.00	215.402	216.058	215.275	215.351	215.453
200.00	215.688	216.383	215.555	215.632	215.734
211.23	216.007	216.733	215.870	215.947	216.049
225.00	216.468	217.216	216.304	216.381	216.682

Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



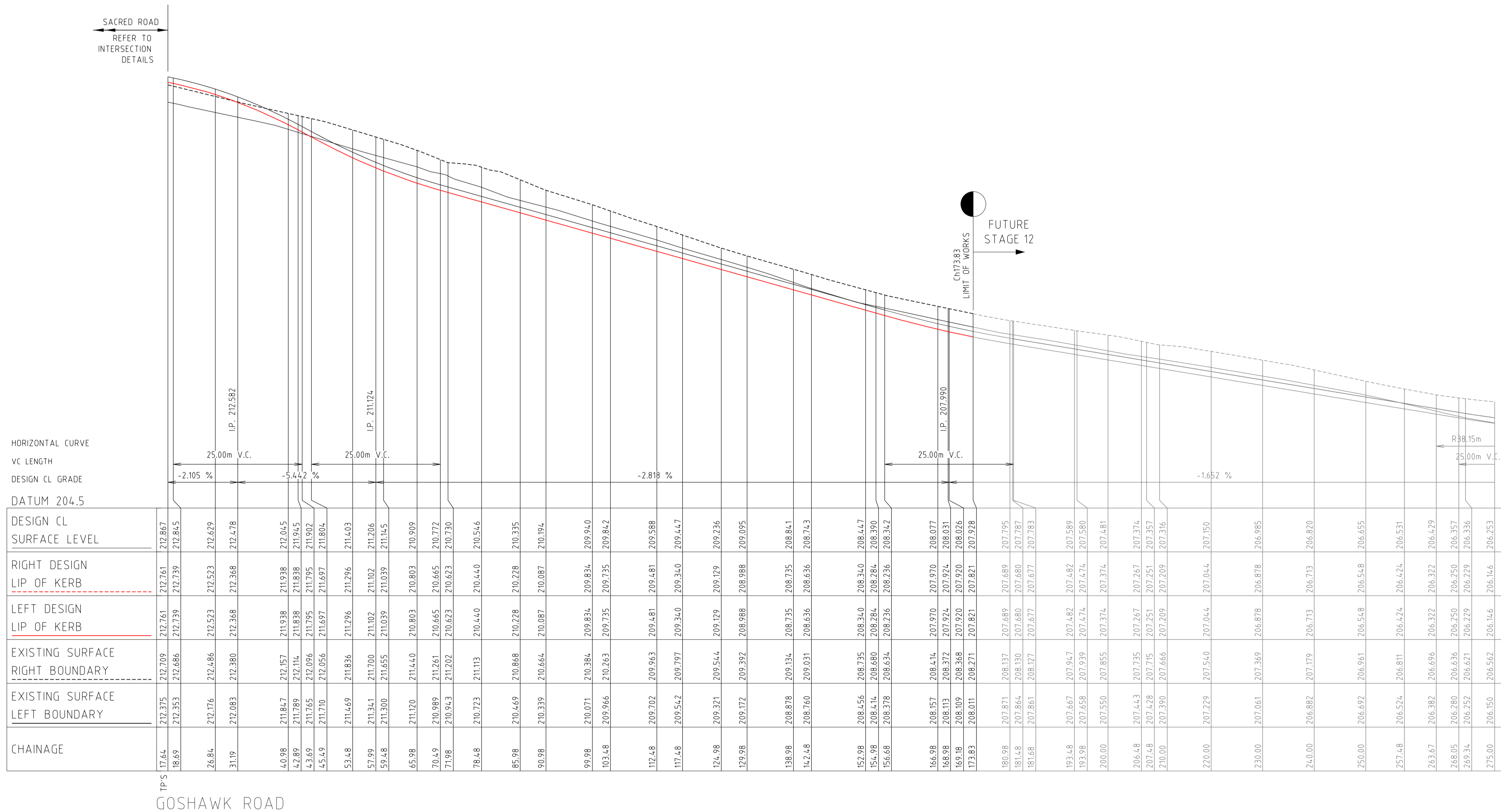
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villawood properties
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 Designed by R. WEINBER
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 Date 4/05/20

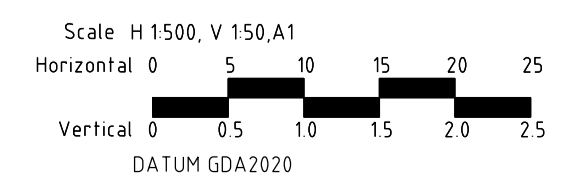
REDSTONE ESTATE STAGE 4
 LONGITUDINAL SECTION - ORIGIN DRIVE & EAGLEHAWK STREET
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
CONSTRUCTION Drg No 305915R03 Rev 1



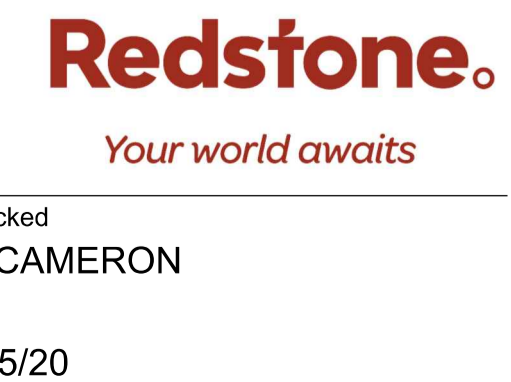
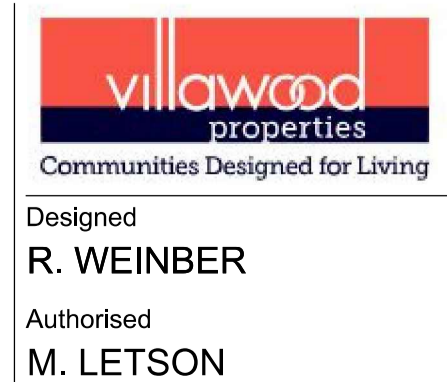
CHAINAGE	EXISTING SURFACE LEFT BOUNDARY	EXISTING SURFACE RIGHT BOUNDARY	LEFT DESIGN LIP OF KERB	RIGHT DESIGN LIP OF KERB	DESIGN CL SURFACE LEVEL
17.64	212.375	212.709	212.375	212.761	212.867
18.69	212.353	212.686	212.353	212.739	212.845
26.84	212.176	212.486	212.523	212.523	212.629
31.19	212.083	212.380	212.368	212.368	212.478
40.98	211.847	212.157	211.938	211.938	212.045
42.89	211.789	212.114	211.838	211.838	211.945
43.69	211.765	212.096	211.795	211.795	211.902
45.49	211.710	212.056	211.697	211.697	211.804
53.48	211.469	211.836	211.296	211.296	211.403
57.99	211.341	211.700	211.102	211.102	211.206
59.48	211.300	211.655	211.039	211.039	211.145
65.98	211.120	211.440	210.803	210.803	210.909
70.49	210.989	211.261	210.665	210.665	210.772
71.98	210.943	211.202	210.623	210.623	210.730
78.48	210.773	211.113	210.440	210.440	210.546
85.98	210.449	210.868	210.228	210.228	210.335
90.98	210.339	210.664	210.087	210.087	210.194
99.98	210.071	210.384	209.834	209.834	209.940
103.48	209.966	210.263	209.735	209.735	209.842
112.48	209.702	209.963	209.481	209.481	209.588
117.48	209.542	209.797	209.340	209.340	209.447
124.98	209.321	209.544	209.129	209.129	209.236
129.98	209.172	209.392	208.988	208.988	209.095
138.98	208.878	209.134	208.735	208.735	208.841
142.48	208.740	209.031	208.636	208.636	208.743
152.98	208.456	208.735	208.340	208.340	208.447
154.98	208.414	208.680	208.284	208.284	208.390
156.68	208.378	208.634	208.236	208.236	208.342
166.98	208.157	208.414	207.970	207.970	208.077
168.98	208.113	208.372	207.924	207.924	208.031
169.98	208.109	208.368	207.920	207.920	208.026
173.63	208.011	208.271	207.821	207.821	207.928
180.98	207.871	208.137	207.689	207.689	207.795
181.48	207.864	208.130	207.680	207.680	207.787
181.68	207.861	208.127	207.677	207.677	207.783
193.48	207.667	207.947	207.482	207.482	207.589
193.98	207.658	207.939	207.474	207.474	207.580
200.00	207.550	207.895	207.374	207.374	207.481
206.48	207.443	207.735	207.267	207.267	207.374
207.48	207.428	207.715	207.251	207.251	207.357
210.00	207.390	207.666	207.209	207.209	207.316
220.00	207.279	207.540	207.044	207.044	207.150
230.00	207.061	207.369	206.878	206.878	206.985
240.00	206.882	207.179	206.713	206.713	206.820
250.00	206.692	206.961	206.548	206.548	206.655
257.48	206.574	206.811	206.424	206.424	206.531
263.67	206.382	206.696	206.322	206.322	206.429
268.05	206.280	206.636	206.250	206.250	206.357
269.34	206.252	206.621	206.229	206.229	206.336
275.00	206.150	206.562	206.146	206.146	206.253

GOSHAWK ROAD

Rev	Description	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21
	Amendments		



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REDSTONE ESTATE STAGE 4
 LONGITUDINAL SECTION - RINDLE DRIVE

VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

CONSTRUCTION Drg No **305915R04** Rev **1**

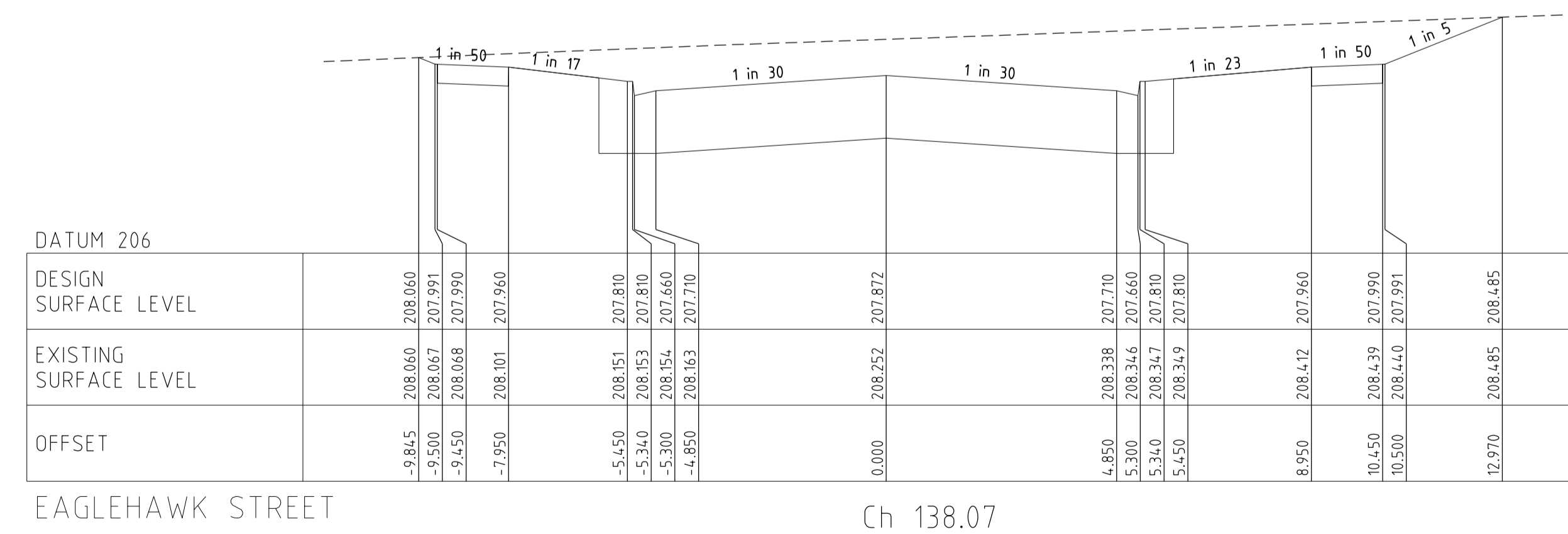
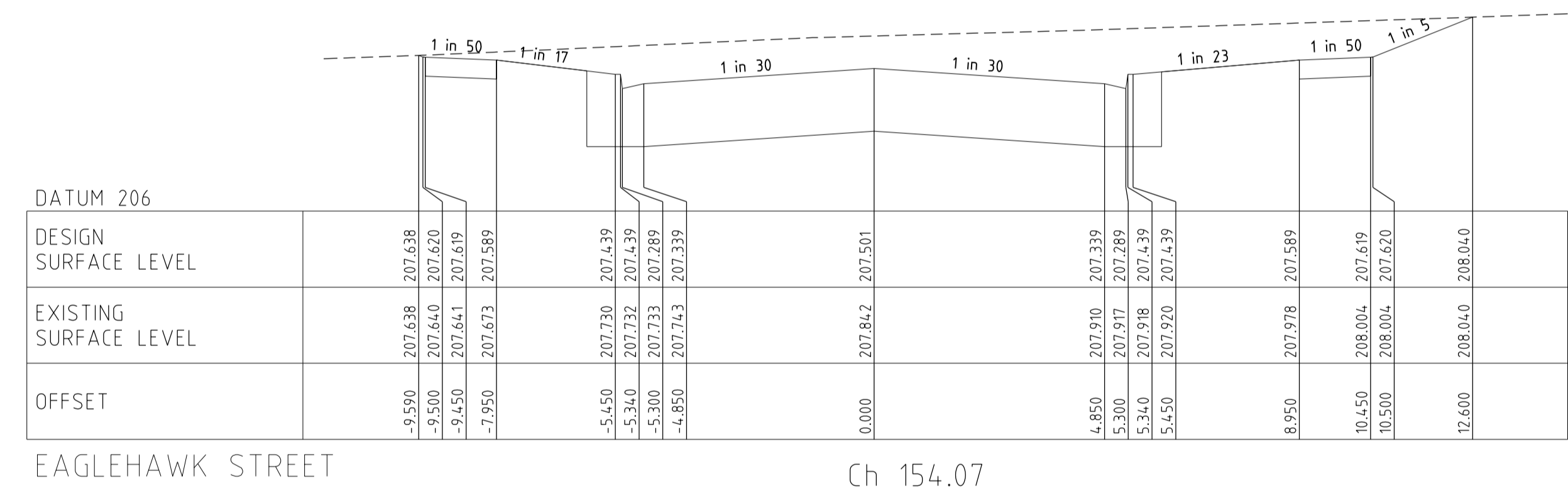
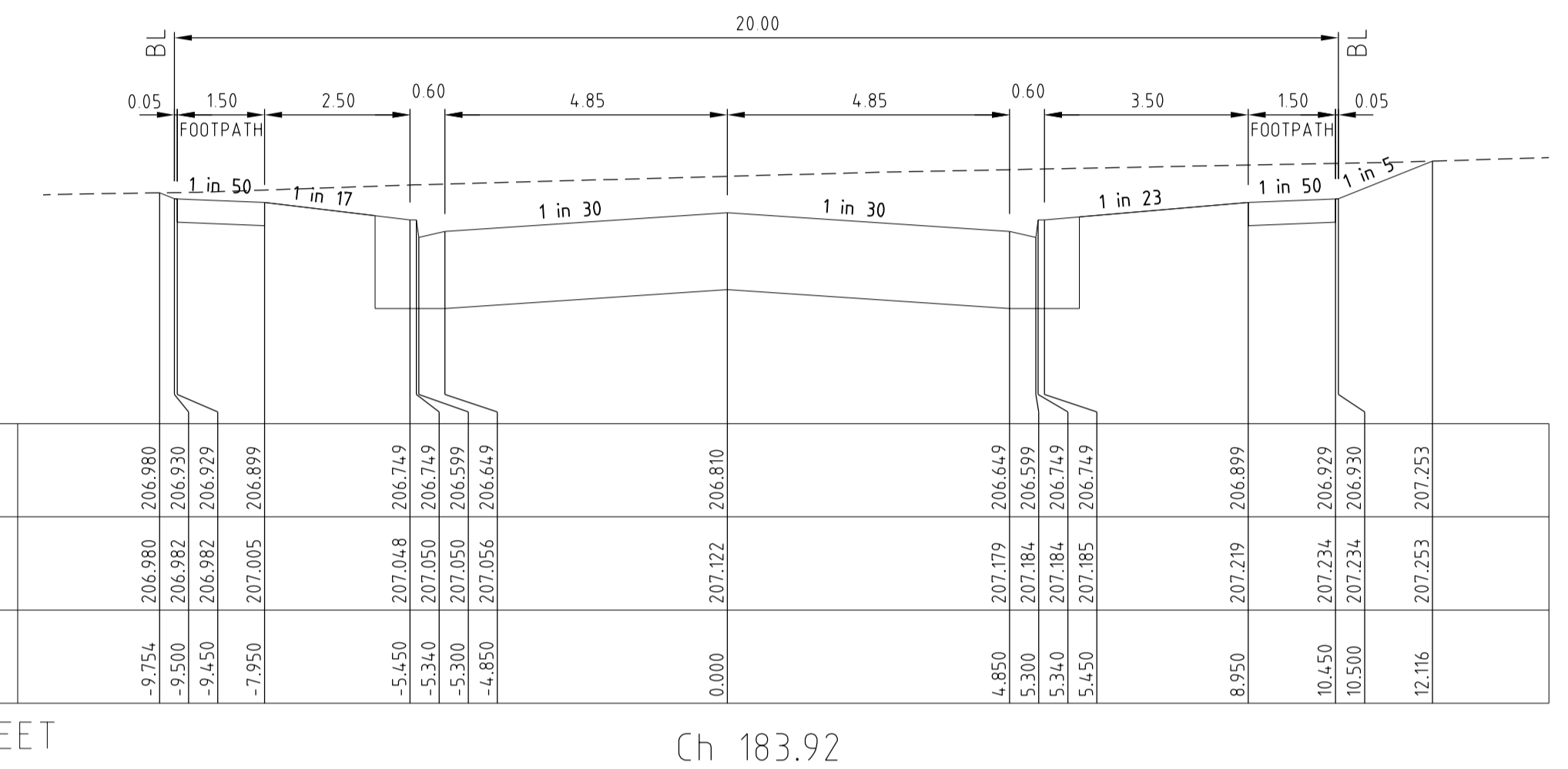
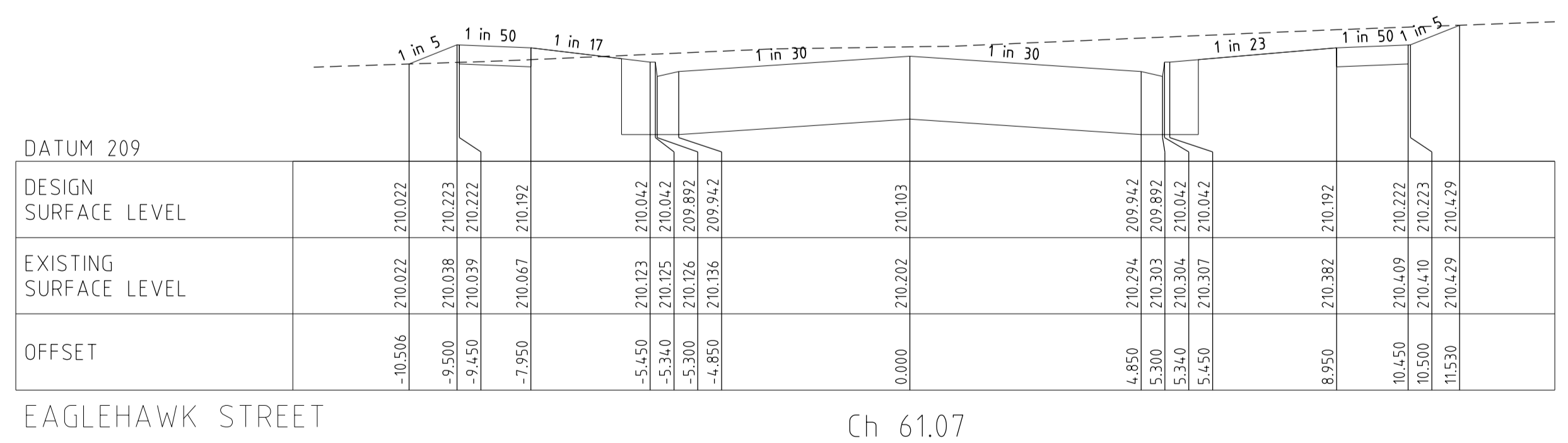
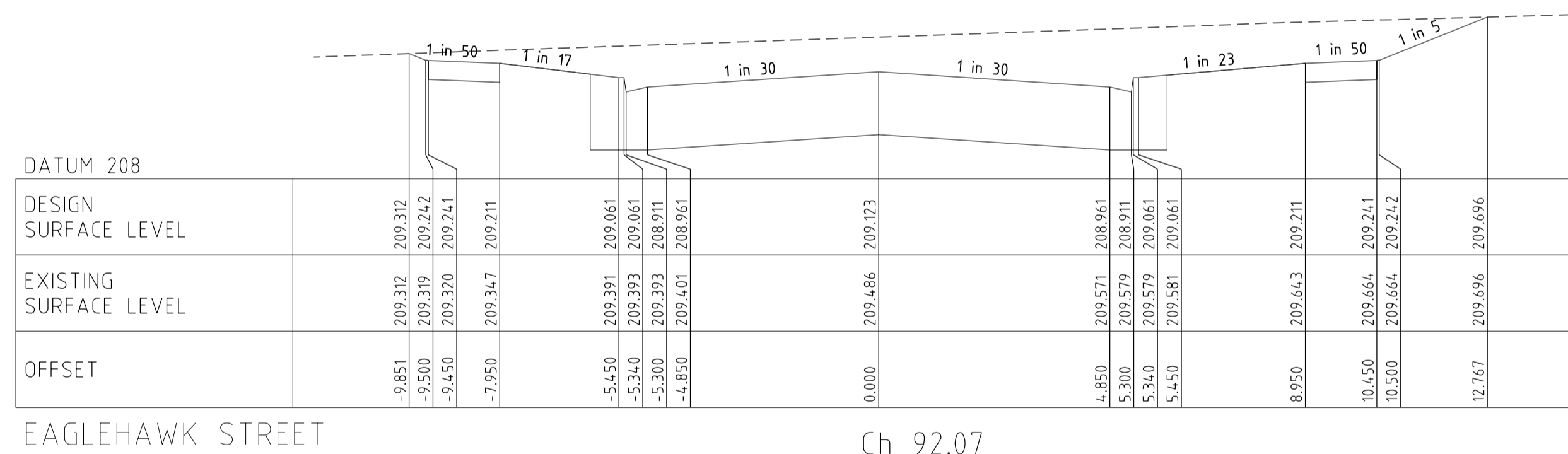
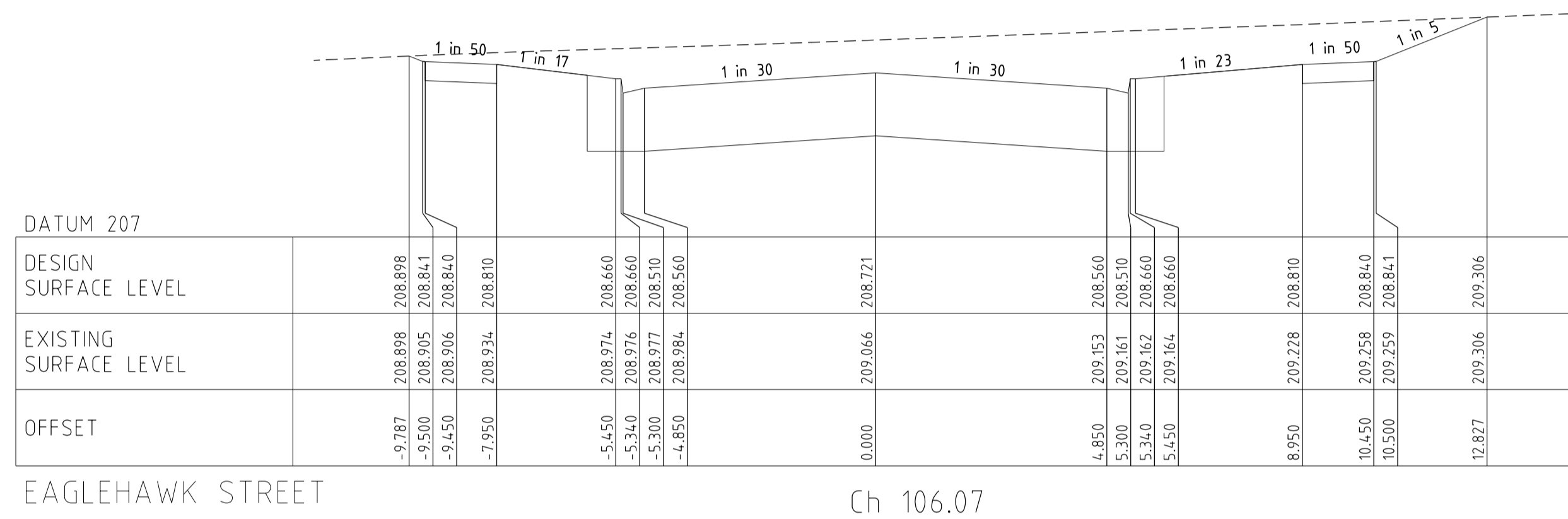
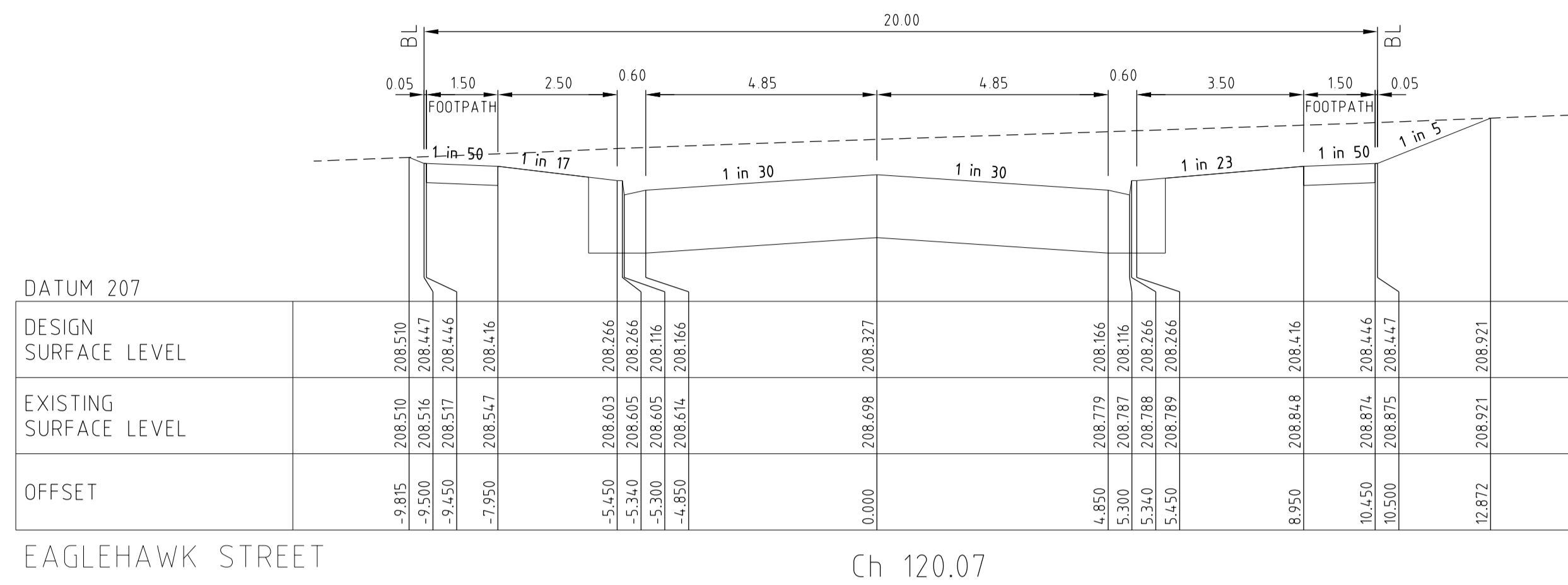
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Authorised
M. LETSON

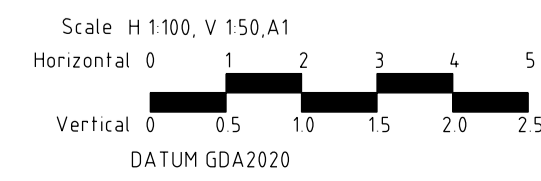
Checked
D. CAMERON

Date
4/05/20

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



Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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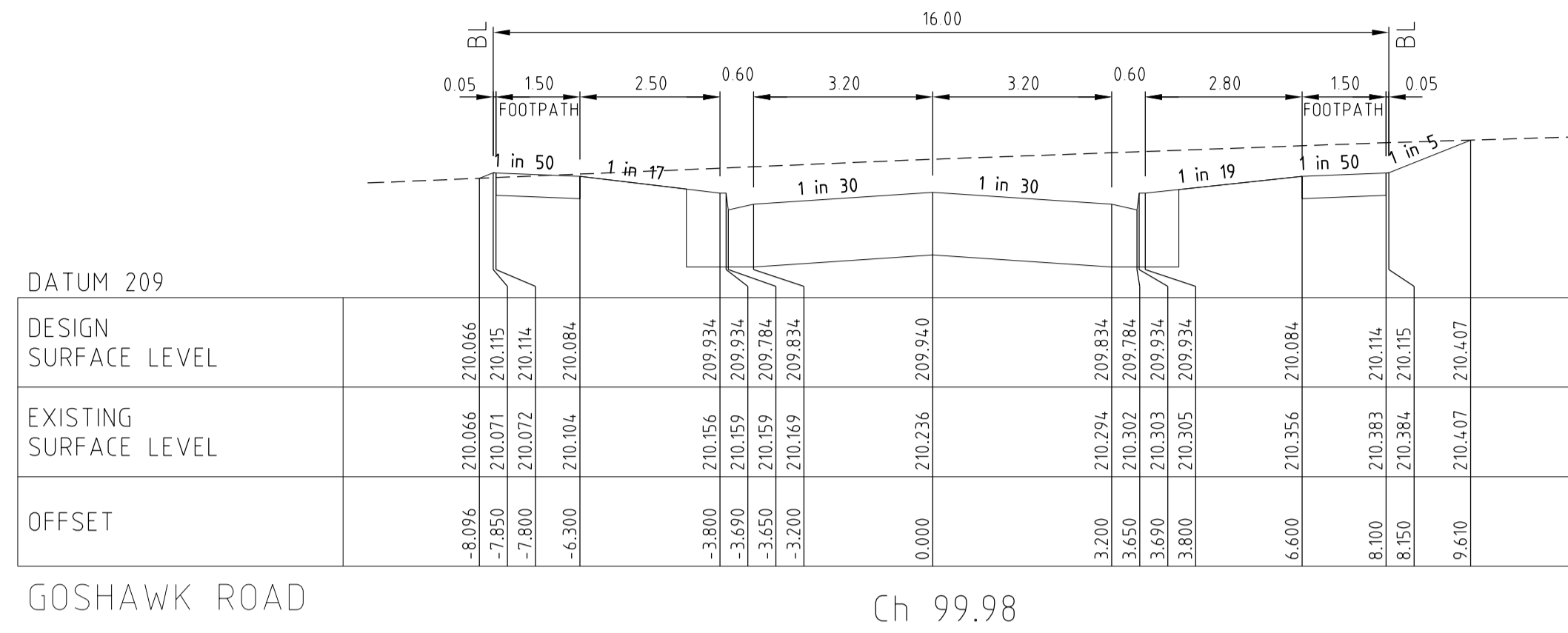
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Designed by R. WEINBER
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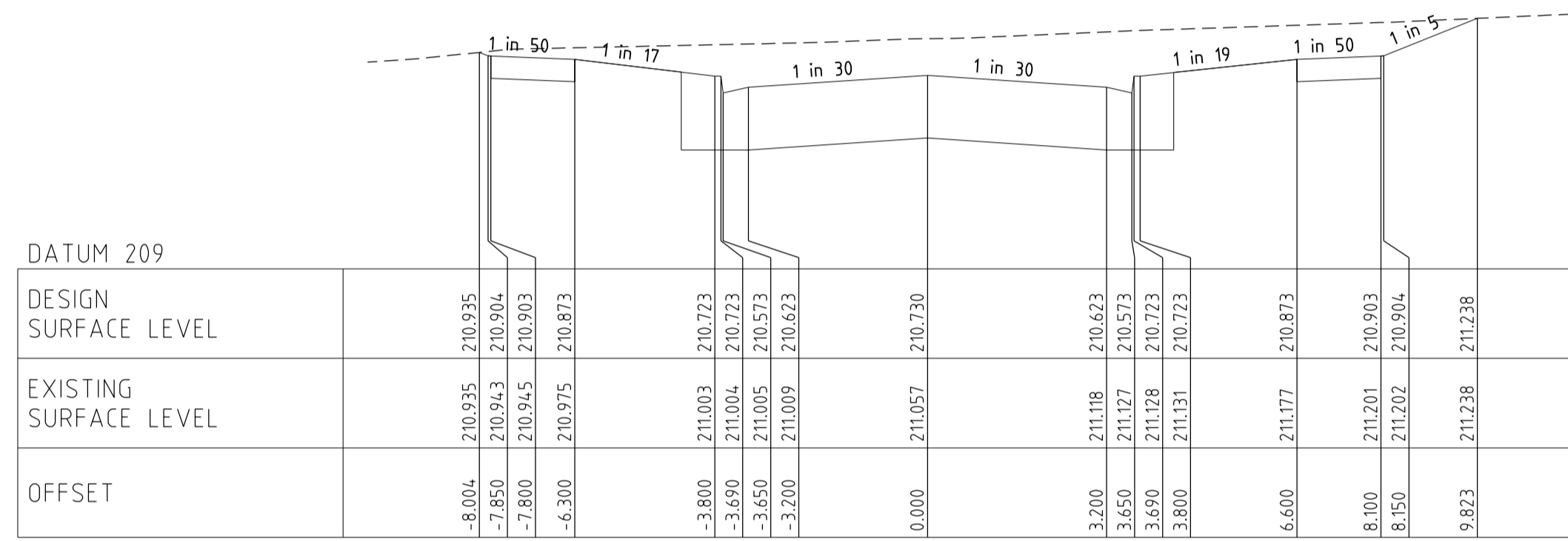
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Date 4/05/20

REDSTONE ESTATE
STAGE 4
CROSS SECTIONS - EAGLEHAWK STREET
SHEET 1 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
CONSTRUCTION Drg No **305915R05** Rev **1**

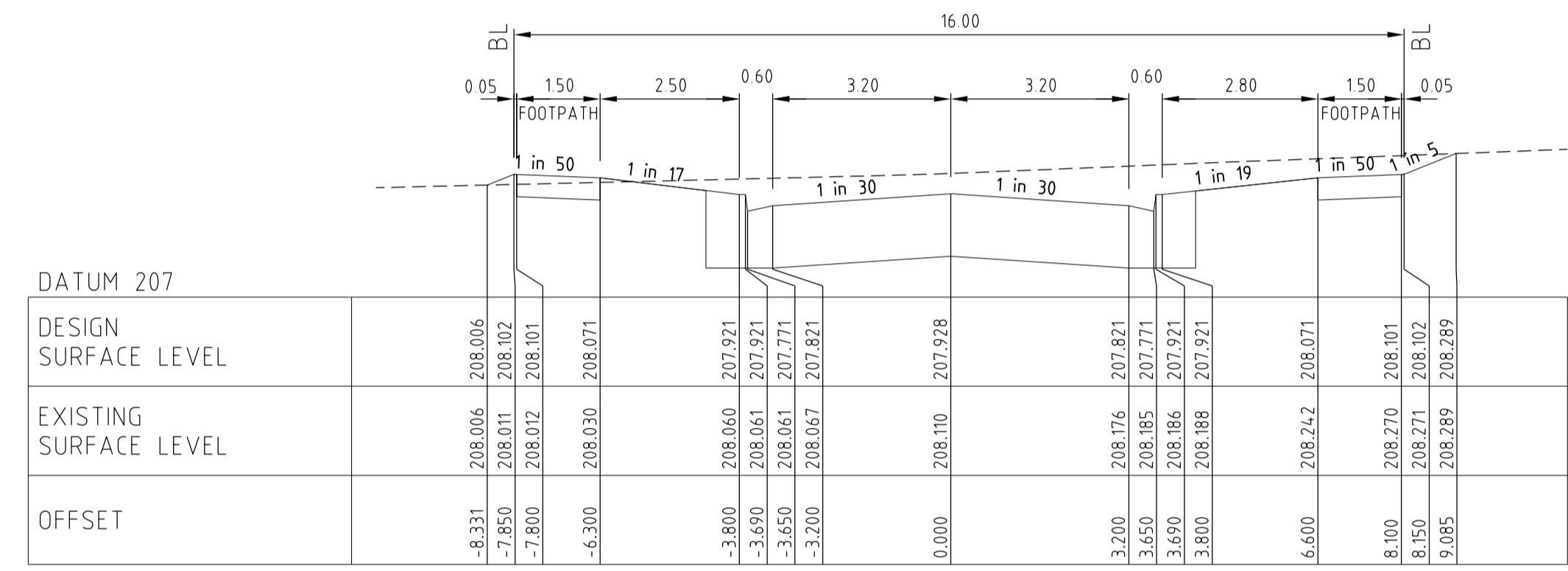
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IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



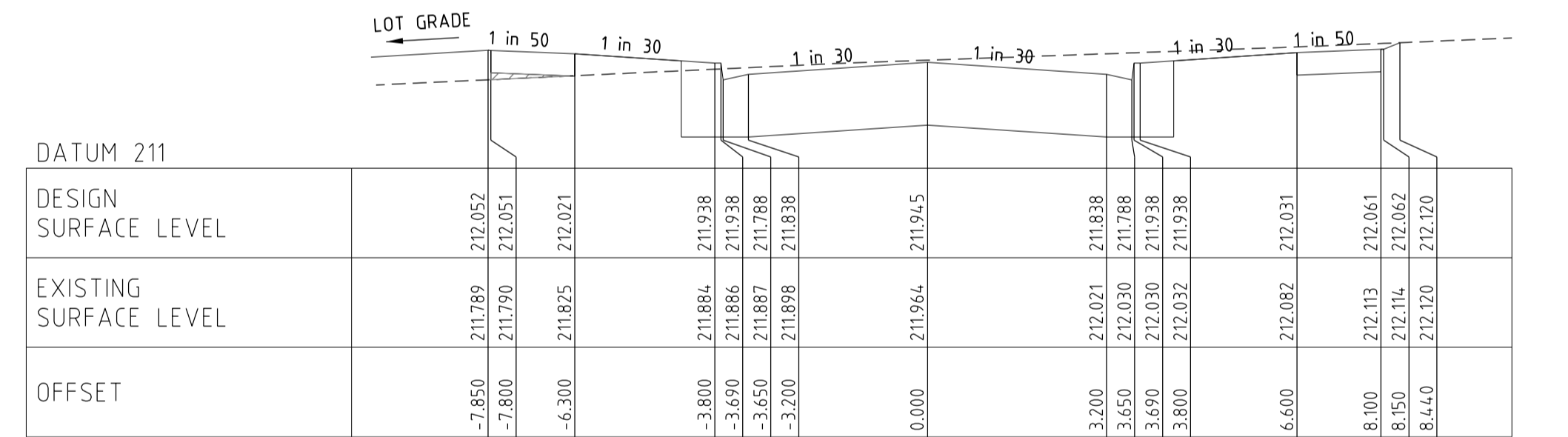
GOSHAWK ROAD Ch 99.98



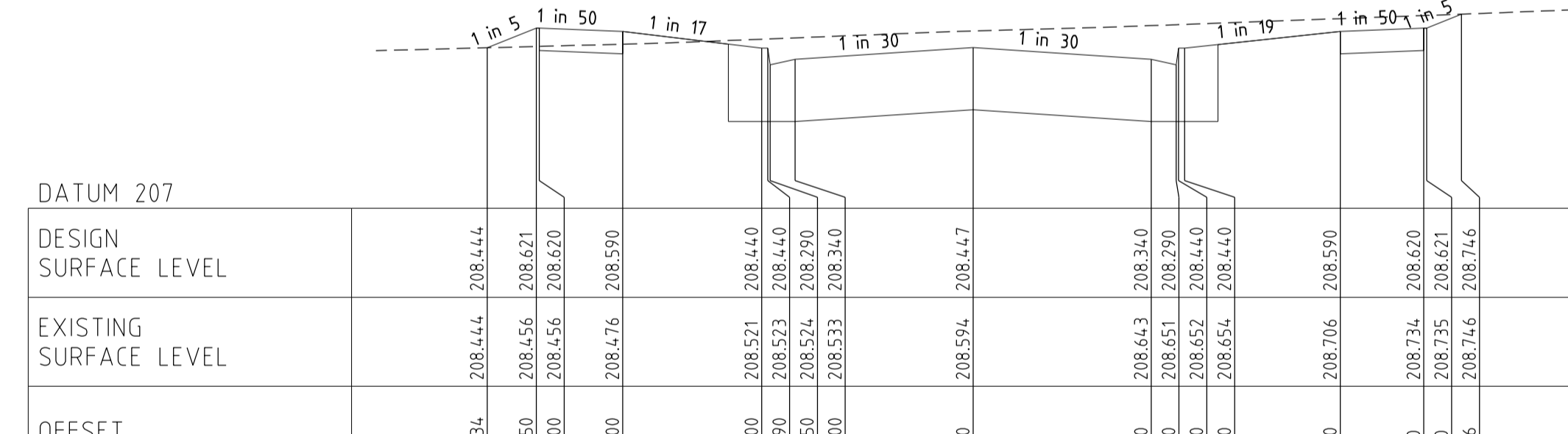
GOSHAWK ROAD Ch 71.98



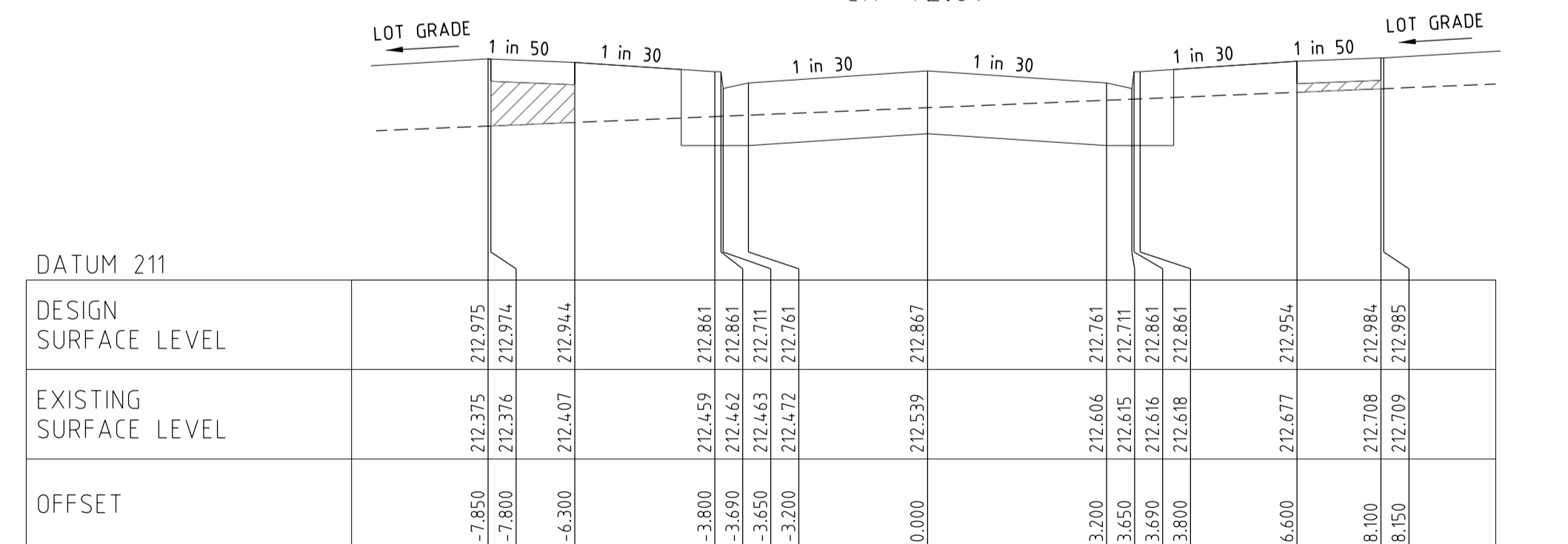
GOSHAWK ROAD Ch 173.83



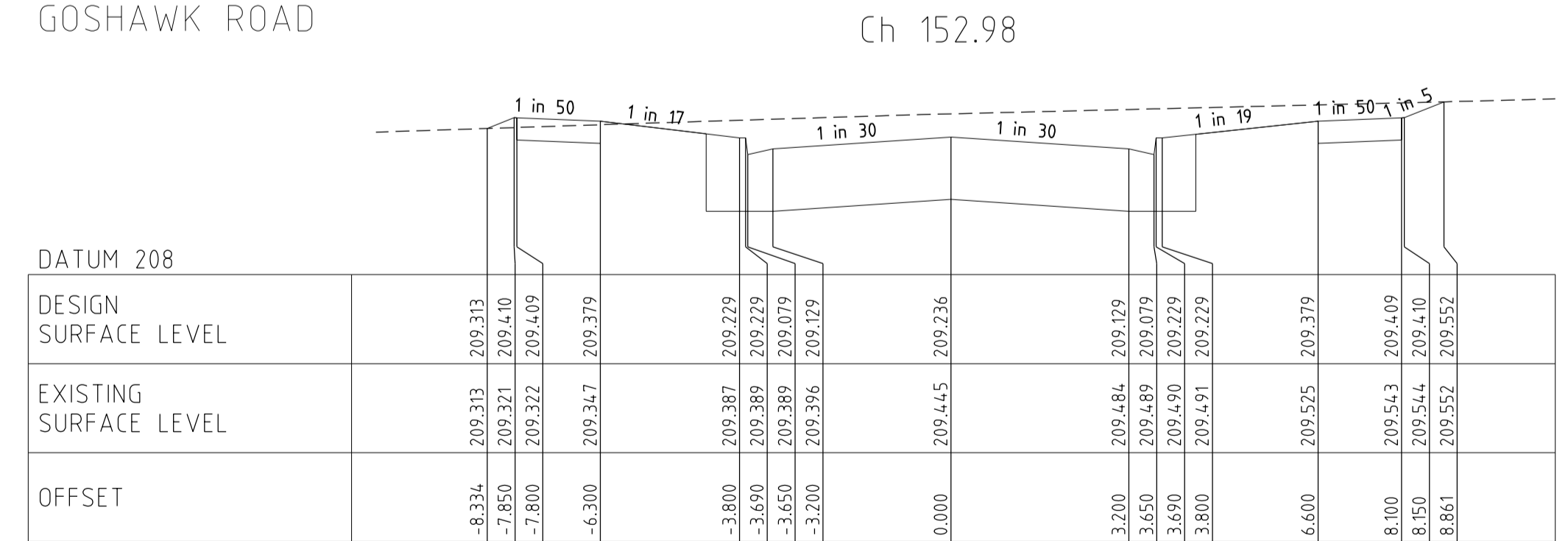
GOSHAWK ROAD Ch 42.89



GOSHAWK ROAD Ch 152.98

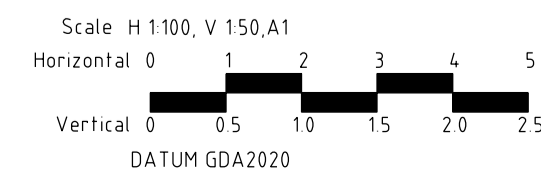


GOSHAWK ROAD Ch 17.64



GOSHAWK ROAD Ch 124.98

Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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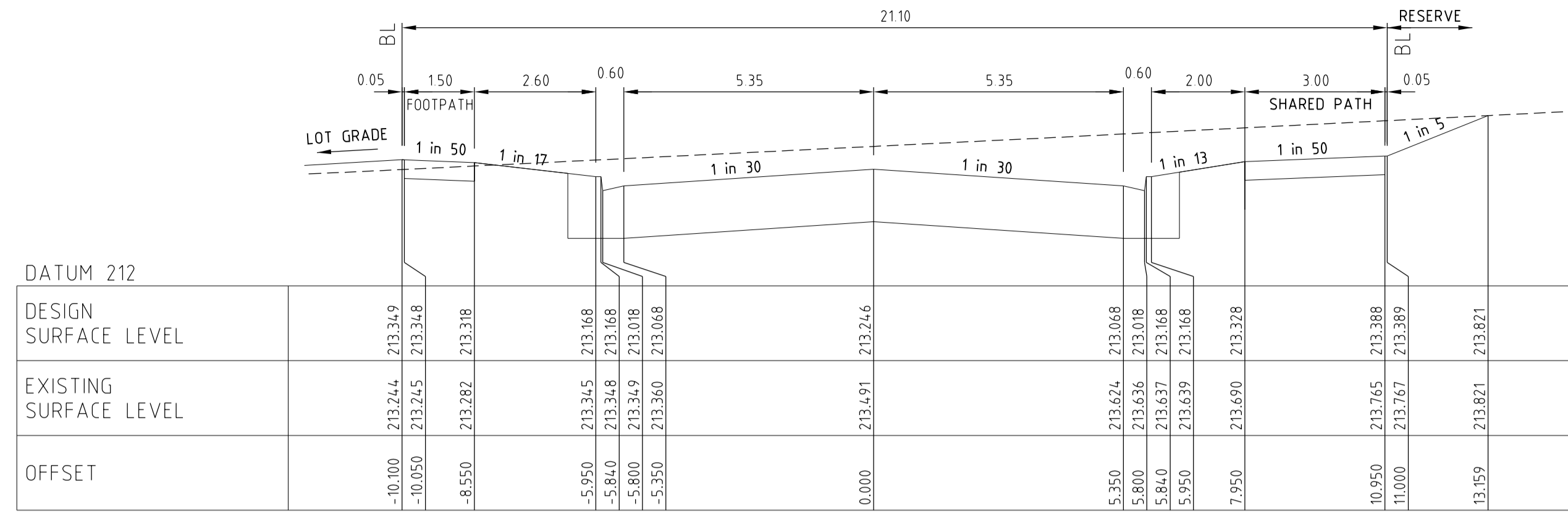
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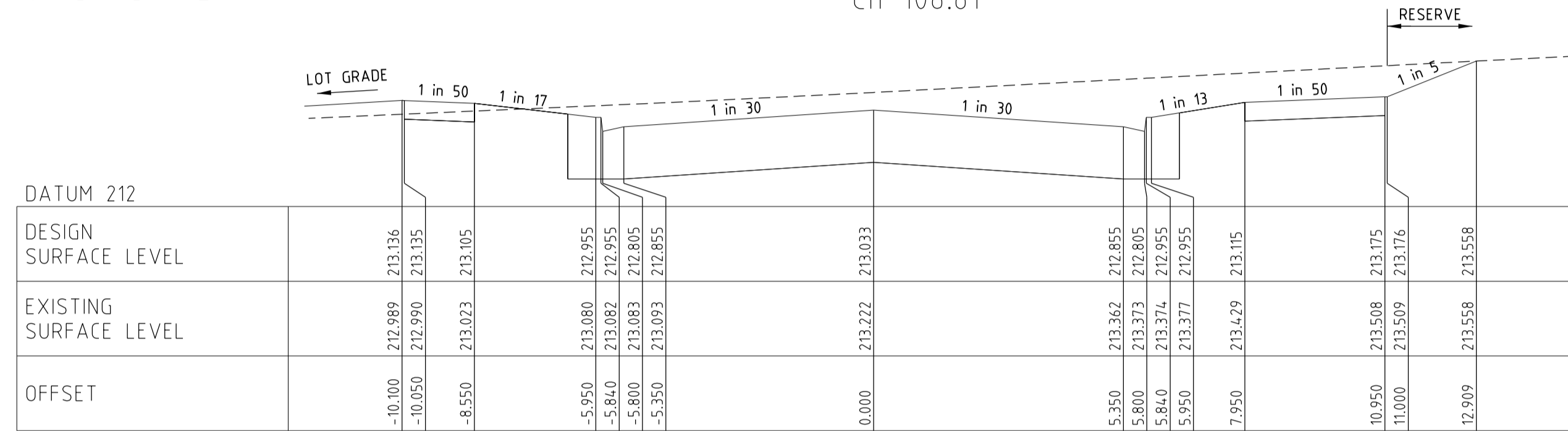
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Date
4/05/20

REDSTONE ESTATE
STAGE 4
CROSS SECTIONS - RINDLE DRIVE
SHEET 2 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
CONSTRUCTION Drg No 305915R06 Rev 1

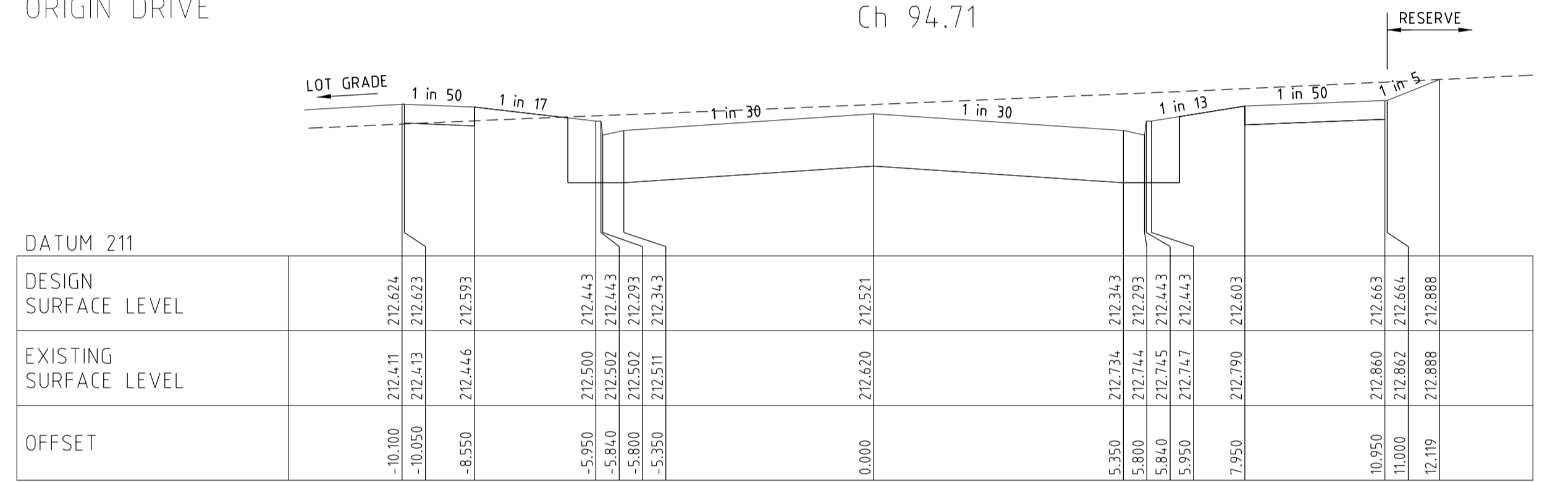
STRUCTURAL FILL
IN ACCORDANCE
WITH AS3798-2007,
LEVEL 1.



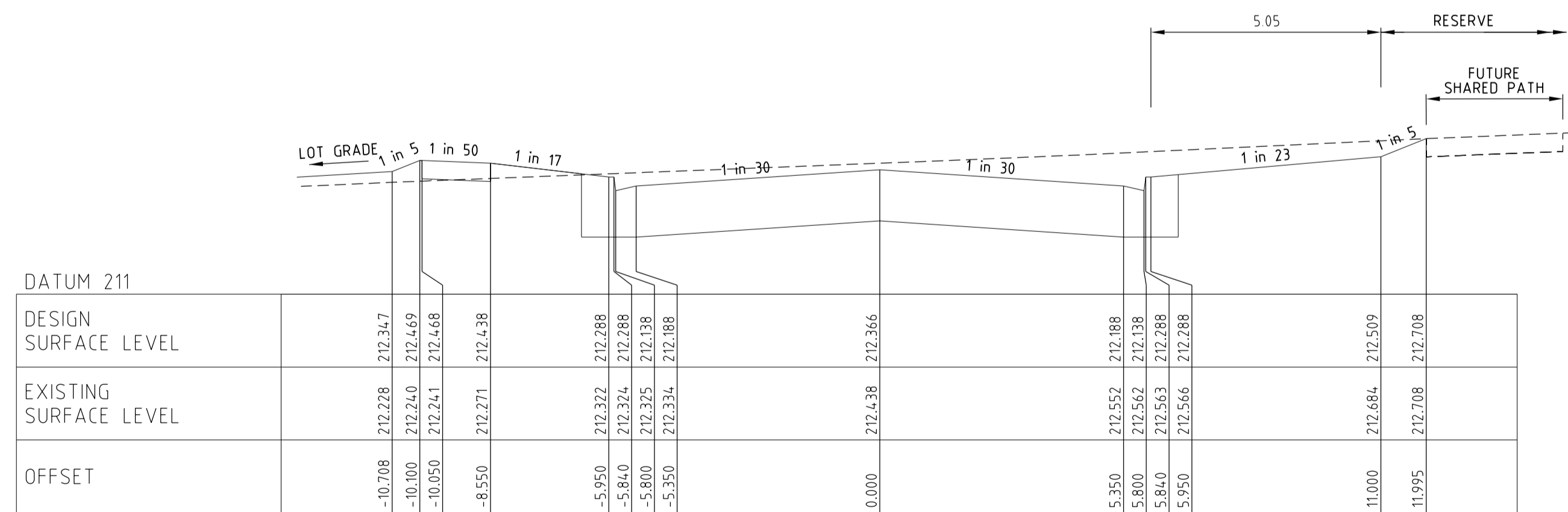
ORIGIN DRIVE Ch 106.81



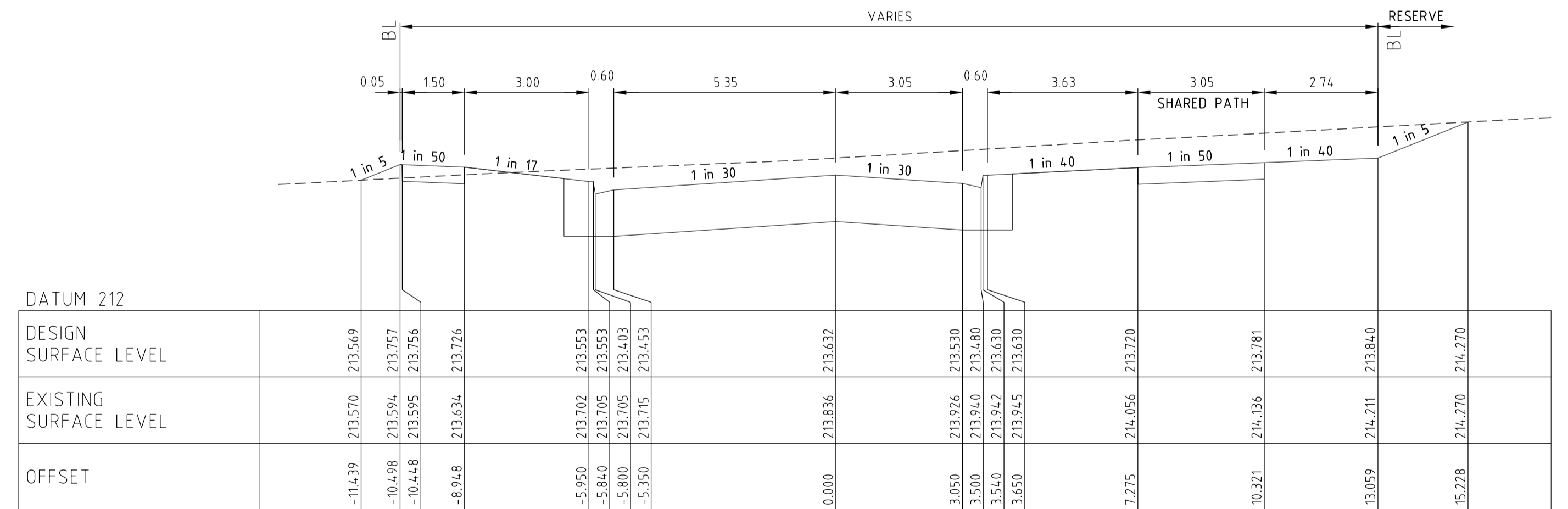
ORIGIN DRIVE Ch 94.71



ORIGIN DRIVE Ch 64.78

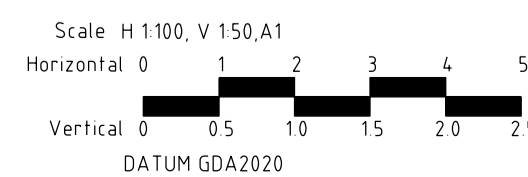


ORIGIN DRIVE Ch 55.69



ORIGIN DRIVE Ch 124.42

Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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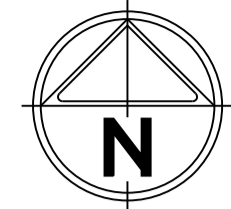


Checked
D. CAMERON
Date
4/05/20

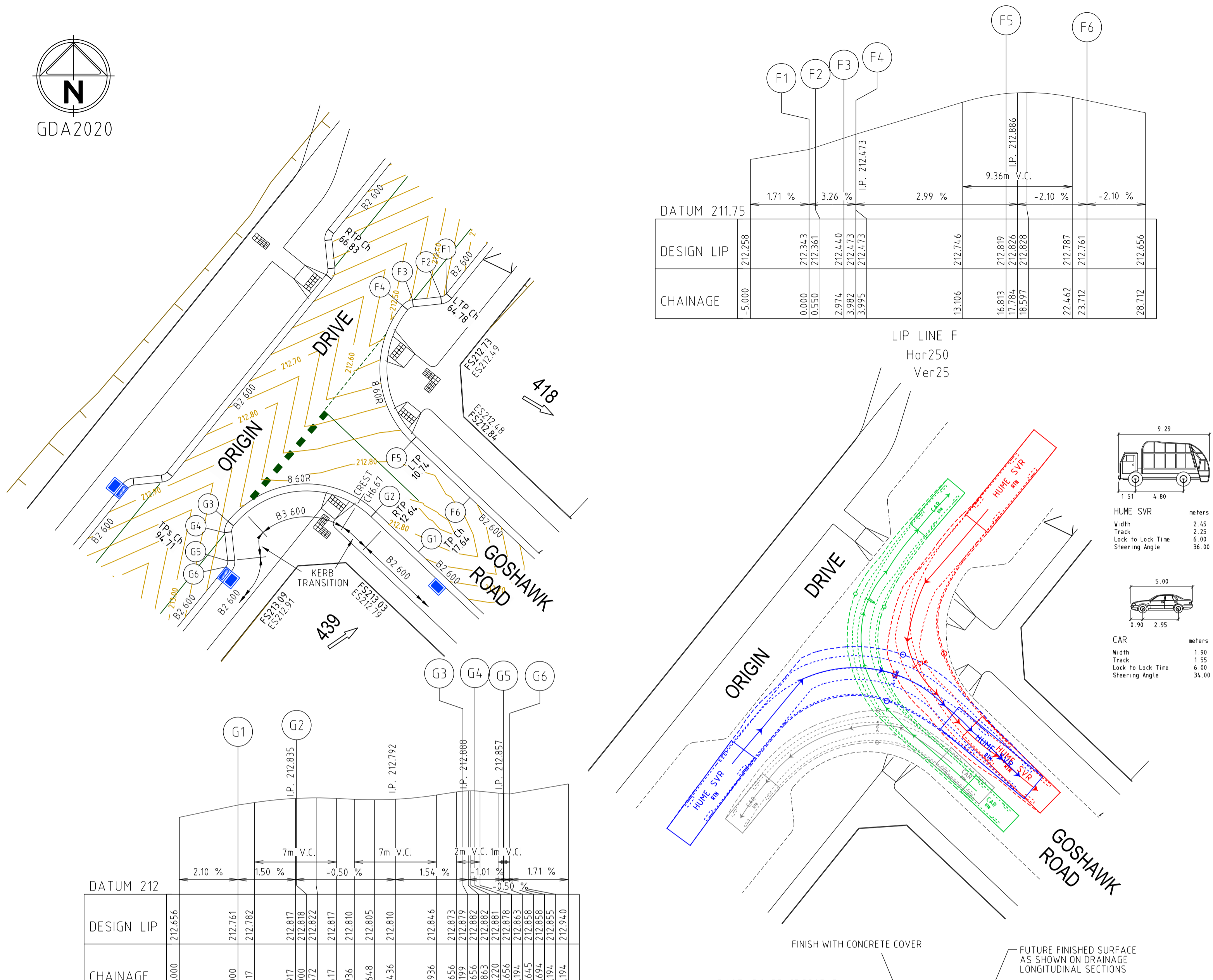
REDSTONE ESTATE
STAGE 4
CROSS SECTIONS - ORIGIN DRIVE
SHEET 3 OF 3
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No 305915R07

Rev 1



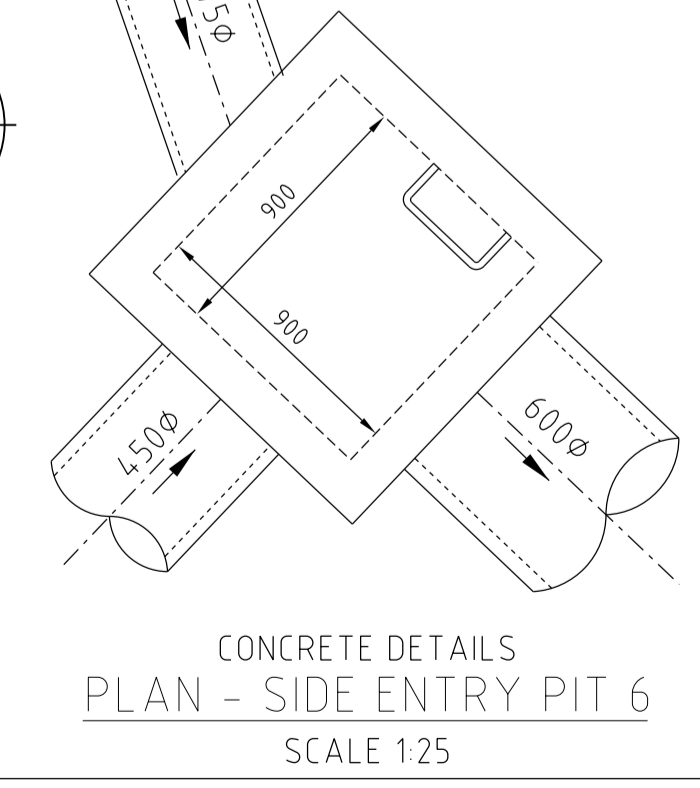
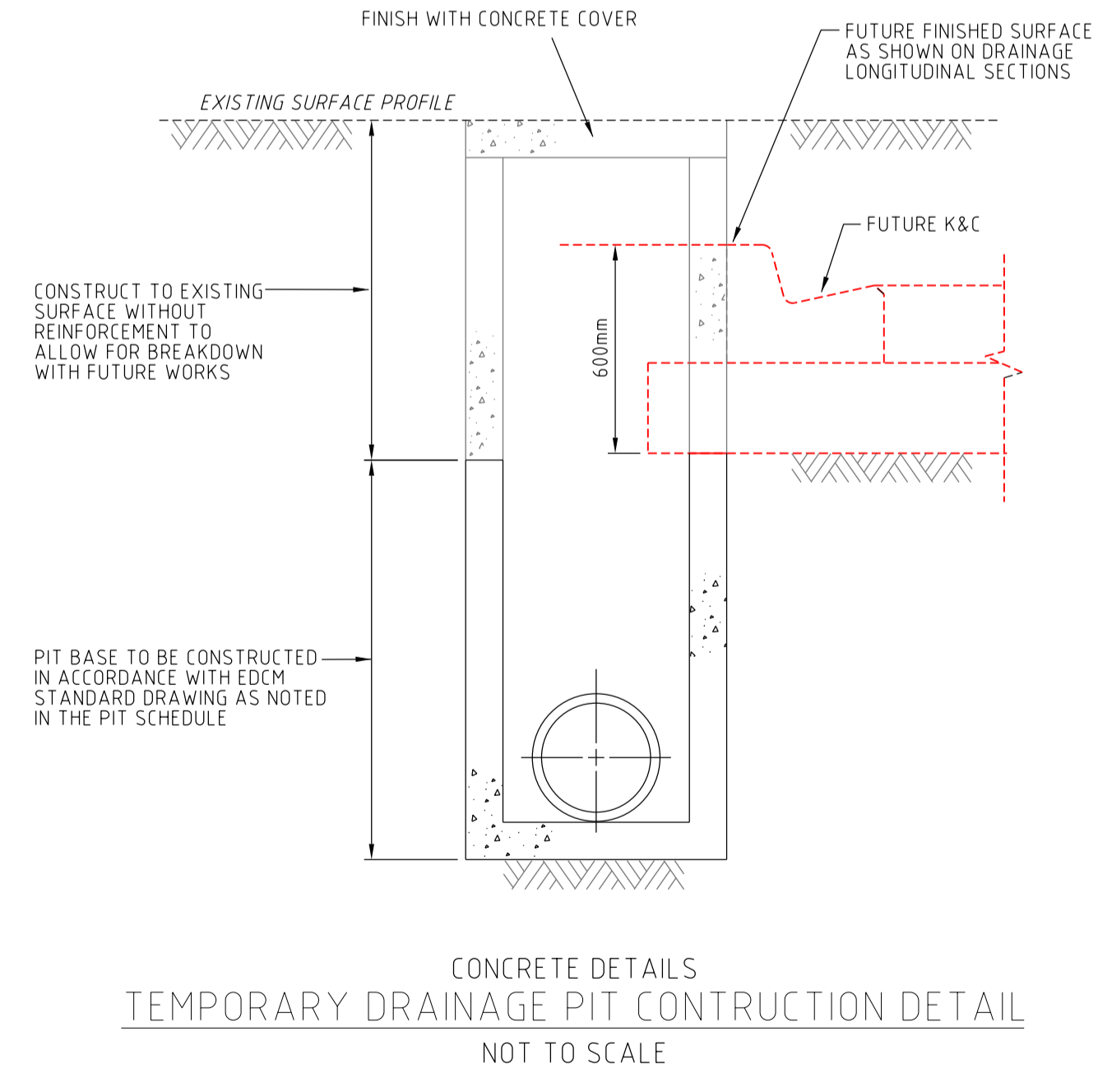
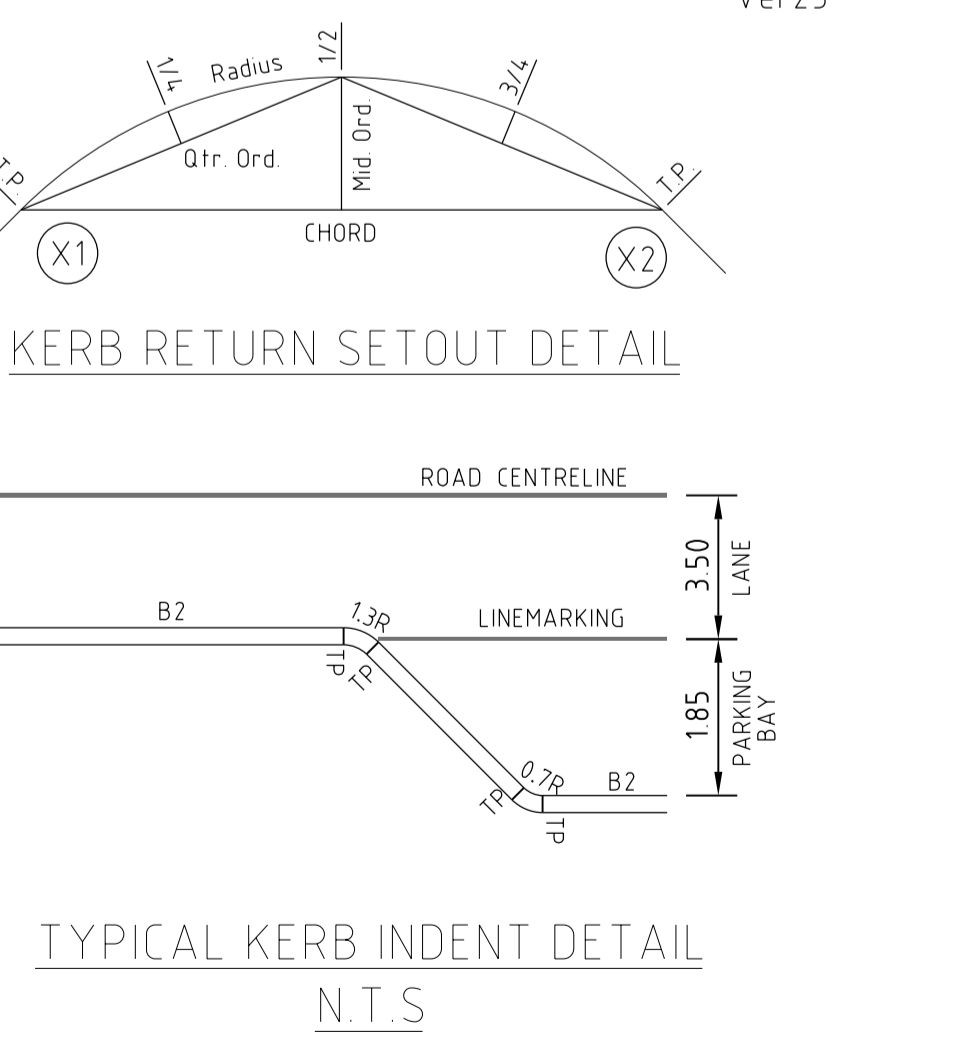
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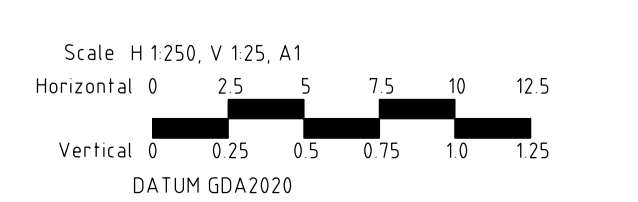
DRAINAGE PIT SCHEDULE

PIT NAME	TYPE	INTERNAL LENGTH	INTERNAL WIDTH	INLET		OUTLET		PIT		REMARKS
				DIA	INV LEVEL	DIA	INV LEVEL	FS LEVEL	DEPTH	
# 1	EXISTING STUB			600	202.850			205.127	2.277	CONNECT TO EXISTING STUB CONSTRUCTED WITH STAGE 1
# 3	JUNCTION PIT	900	900	600	203.030	600	202.980	205.338	2.358	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 4	JUNCTION PIT	900	900	600	203.160	600	203.110	205.631	2.521	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 5	JUNCTION PIT	900	900	600	203.310	600	203.260	205.933	2.673	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 6	JUNCTION PIT	900	900	375	203.500	600	203.360	206.102	2.742	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) PROVIDE PIT DEFLECTOR IN BASE TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 7	JUNCTION PIT	900	900	375	203.780	375	203.700	206.257	2.557	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 8	JUNCTION PIT	900	900	300	204.490	375	204.440	206.765	2.325	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607)
9	SIDE ENTRY PIT GRATED	900	600	700	205.200	300	205.150	206.997	1.847	REFER DRAWING - EDMC 601
10	SIDE ENTRY PIT GRATED	900	600	300	206.650	300	206.600	208.389	1.789	REFER DRAWING - EDMC 601
11	SIDE ENTRY PIT GRATED	900	600	700	207.900	300	207.850	209.603	1.753	REFER DRAWING - EDMC 601
12	JUNCTION PIT	900	600			300	208.250	210.026	1.776	REFER DRAWING - EDMC 605
13	SIDE ENTRY PIT GRATED	900	600			300	208.050	209.611	1.561	REFER DRAWING - EDMC 601
14	SIDE ENTRY PIT GRATED	900	600			300	206.770	208.397	1.627	REFER DRAWING - EDMC 601
15	SIDE ENTRY PIT GRATED	900	600			300	205.320	207.003	1.683	REFER DRAWING - EDMC 601
16	JUNCTION PIT	900	600	225	205.950	300	205.900	207.277	1.377	REFER DRAWING - EDMC 605
16A	JUNCTION PIT	900	600			225	206.210	207.032	0.822	REFER DRAWING - EDMC 605
17	JUNCTION PIT	900	600	225	207.930	225	207.850	208.863	1.013	REFER DRAWING - EDMC 605
18	JUNCTION PIT	900	600			225	210.000	210.876	0.876	REFER DRAWING - EDMC 605
# 19	JUNCTION PIT	900	900	450	204.750	450	204.700	206.938	2.238	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607)
# 20	JUNCTION PIT	900	900	450	204.950	450	204.900	207.230	2.330	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 21	JUNCTION PIT	900	900	375	205.100	450	205.050	207.396	2.346	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607) TO BE CONVERTED TO GRATED SIDE ENTRY PIT WITH FUTURE WORKS
# 22	JUNCTION PIT	900	900	300	205.750	375	205.700	207.847	2.147	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607)
23	JUNCTION PIT	900	600	300	207.050	300	207.000	208.559	1.559	REFER DRAWING - EDMC 605
23A	JUNCTION PIT	900	600			225	207.500	208.325	0.825	REFER DRAWING - EDMC 605
24	JUNCTION PIT	900	600	300	208.150	300	208.100	209.154	1.054	REFER DRAWING - EDMC 605
25	JUNCTION PIT	900	600	300	210.085	300	210.035	211.135	1.100	REFER DRAWING - EDMC 605
26	JUNCTION PIT	900	600	225	211.300	300	211.250	212.777	1.527	REFER DRAWING - EDMC 605
26A	JUNCTION PIT	900	600			225	211.830	212.519	0.689	REFER DRAWING - EDMC 605
26B	JUNCTION PIT	900	600			300	211.350	212.876	1.526	REFER DRAWING - EDMC 605
28	SIDE ENTRY PIT GRATED	900	600	300	206.400	300	206.350	208.167	1.817	REFER DRAWING - EDMC 601
29	SIDE ENTRY PIT GRATED	900	600	300	208.400	300	208.350	210.155	1.805	REFER DRAWING - EDMC 601
30	JUNCTION PIT	900	600			300	211.000	212.803	1.803	REFER DRAWING - EDMC 605
31	SIDE ENTRY PIT GRATED	900	600			300	208.500	210.299	1.799	REFER DRAWING - EDMC 601
32	SIDE ENTRY PIT GRATED	900	900			300	206.490	208.170	1.680	REFER DRAWING - EDMC 601
33	EXISTING ENDOPIPE			525	210.160			212.341	2.180	CONNECT TO EXISTING END PIPE CONSTRUCTED WITH STAGE 2
34	SIDE ENTRY PIT GRATED	900	900	525	210.800	525	210.750	213.000	2.250	REFER DRAWING - EDMC 601 (PROVIDE HAUNCHING AS PER EDMC 607)
35	JUNCTION PIT	900	900	525	211.200	525	211.150	213.317	2.167	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607)
36	JUNCTION PIT	900	900			525	211.400	213.625	2.225	REFER DRAWING - EDMC 605 (PROVIDE HAUNCHING AS PER EDMC 607)
37	SIDE ENTRY PIT GRATED	900	600			300	211.200	212.991	1.791	REFER DRAWING - EDMC 601
38	EXISTING JUNCTION PIT			225	210.850			211.694	0.894	CONNECT TO EXISTING 225 STUB
39	JUNCTION PIT	900	600			225	211.200	212.052	0.852	REFER DRAWING - EDMC 605

NOTE: ALL PITS DENOTED THUS "# " TO BE CONSTRUCTED AS PER TEMPORARY DRAINAGE PIT CONTRUCTION DETAIL BELOW



Rev	Amendments	Approved	Date
2	PIT SCHEDULE UPDATED FOR AMENDED ALIGNMENT	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



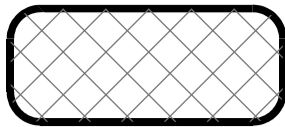
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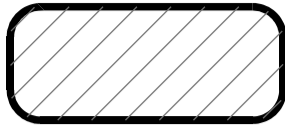
villawood properties
Communities Designed for Living
Designed by R. WEINBER
Authorised by M. LETSON

Redstone.
Your world awaits
Checked by D. CAMERON
Date 4/05/20

REDSTONE ESTATE
STAGE 4
INTERSECTION DETAIL AND PIT SCHEDULE
VILLAWOOD PROPERTIES
HUME CITY COUNCIL
CONSTRUCTION
Drg No 305915R08
Rev 2



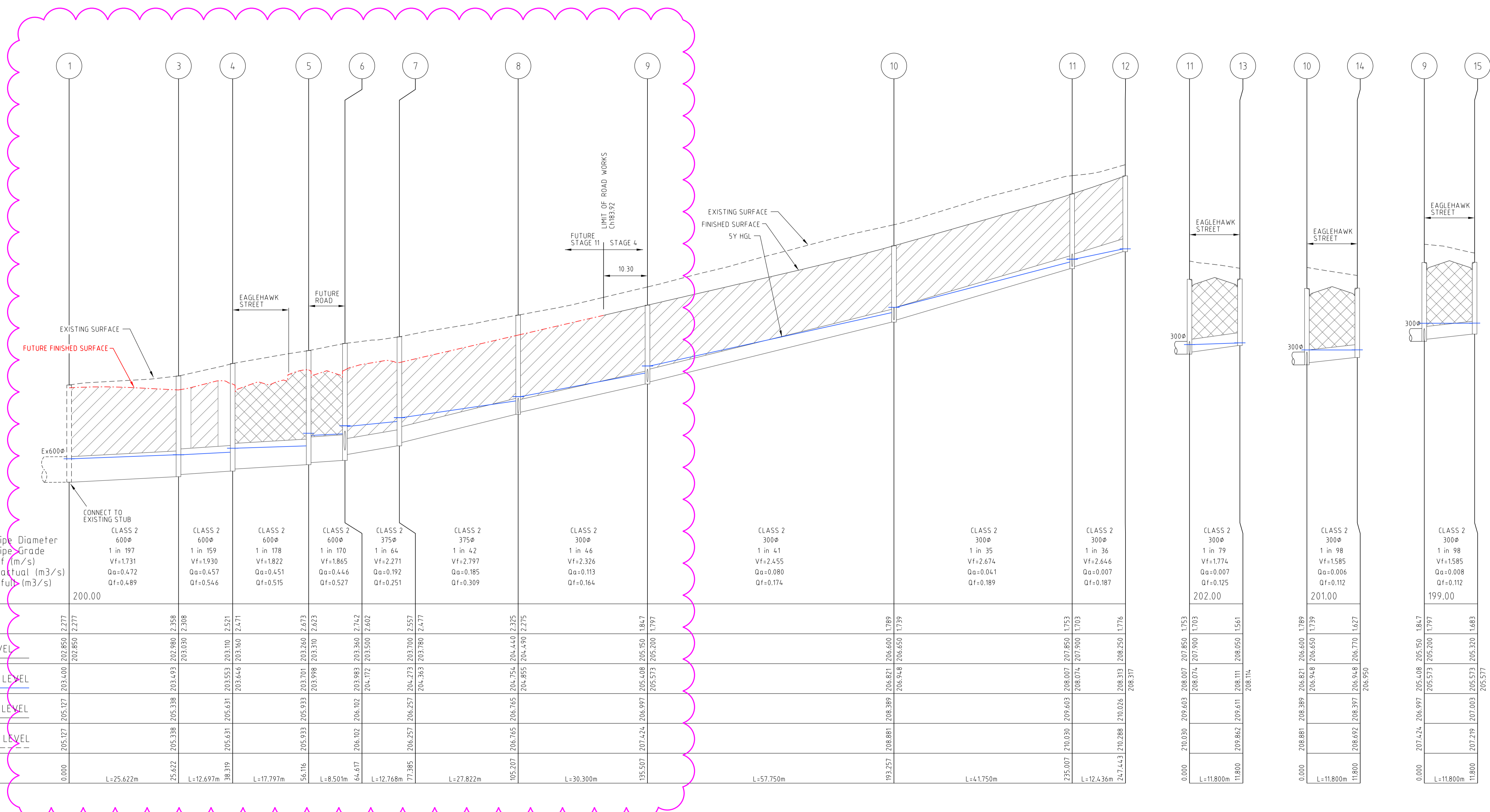
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

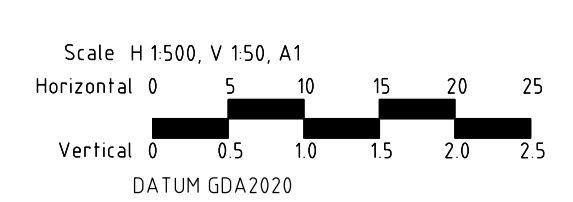
NOTE:

- 1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE
- 2 DRAINAGE PIPES GREATER THAN 750 ϕ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
- 3 CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURER'S SPECIFICATION
 - b) DEFLECTION ACHIEVED WITHIN RRJ.



PIPE NO.	PIPE DIAMETER	PIPE GRADE	Vf (m/s)	Qa (m ³ /s)	Qf (m ³ /s)	DEPTH TO INVERT	DESIGN INVERT LEVEL	HYDRAULIC GRADE LEVEL	FINISHED SURFACE LEVEL	EXISTING SURFACE LEVEL	CHAINAGE
1	600 ϕ	1 in 197	1.731	0.472	0.489	202.850	202.850	203.400	205.327	205.327	0.000
3	600 ϕ	1 in 159	1.930	0.457	0.546	202.980	202.980	203.493	205.338	205.338	25.622
4	600 ϕ	1 in 178	1.822	0.451	0.515	203.030	203.030	203.553	205.631	205.631	38.319
5	600 ϕ	1 in 170	1.865	0.446	0.527	203.260	203.260	203.701	205.933	205.933	56.116
6	375 ϕ	1 in 64	2.271	0.192	0.251	203.360	203.360	203.983	206.102	206.102	64.617
7	375 ϕ	1 in 42	2.797	0.185	0.309	203.500	203.500	204.172	206.207	206.207	77.385
8	300 ϕ	1 in 46	2.326	0.119	0.164	204.440	204.440	204.855	206.765	206.765	105.207
9	300 ϕ	1 in 41	2.455	0.080	0.174	204.490	204.490	204.855	206.450	206.450	135.507
10	300 ϕ	1 in 35	2.674	0.041	0.189	206.600	206.600	206.821	208.389	208.389	193.257
11	300 ϕ	1 in 36	2.646	0.007	0.187	207.850	207.850	208.007	209.603	209.603	235.007
12	300 ϕ	1 in 36	2.646	0.007	0.187	208.250	208.250	208.317	210.026	210.026	247.443
13	300 ϕ	1 in 79	1.774	0.007	0.125	207.900	207.900	208.074	209.611	209.611	270.000
14	300 ϕ	1 in 98	1.585	0.006	0.112	206.650	206.650	206.821	208.389	208.389	295.000
15	300 ϕ	1 in 98	1.585	0.008	0.112	205.200	205.200	205.573	207.200	207.200	315.000

Rev	Description	Approved	Date
2	DRAINAGE LONGSECTION UPDATED TO NEW ALIGNMENT	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



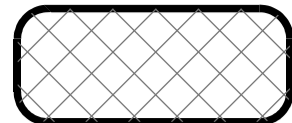
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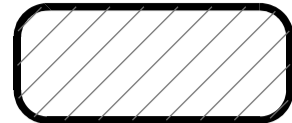
villawood properties
 Communities Designed for Living
 Designed by R. WEINBER
 Authorised by M. LETSON

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 Checked by D. CAMERON
 Date 4/05/20

REDSTONE ESTATE STAGE 4 DRAINAGE LONG SECTION SHEET 1 OF 4
 VILLAWOOD PROPERTIES HUME CITY COUNCIL
CONSTRUCTION Drg No 305915R09 Rev 2



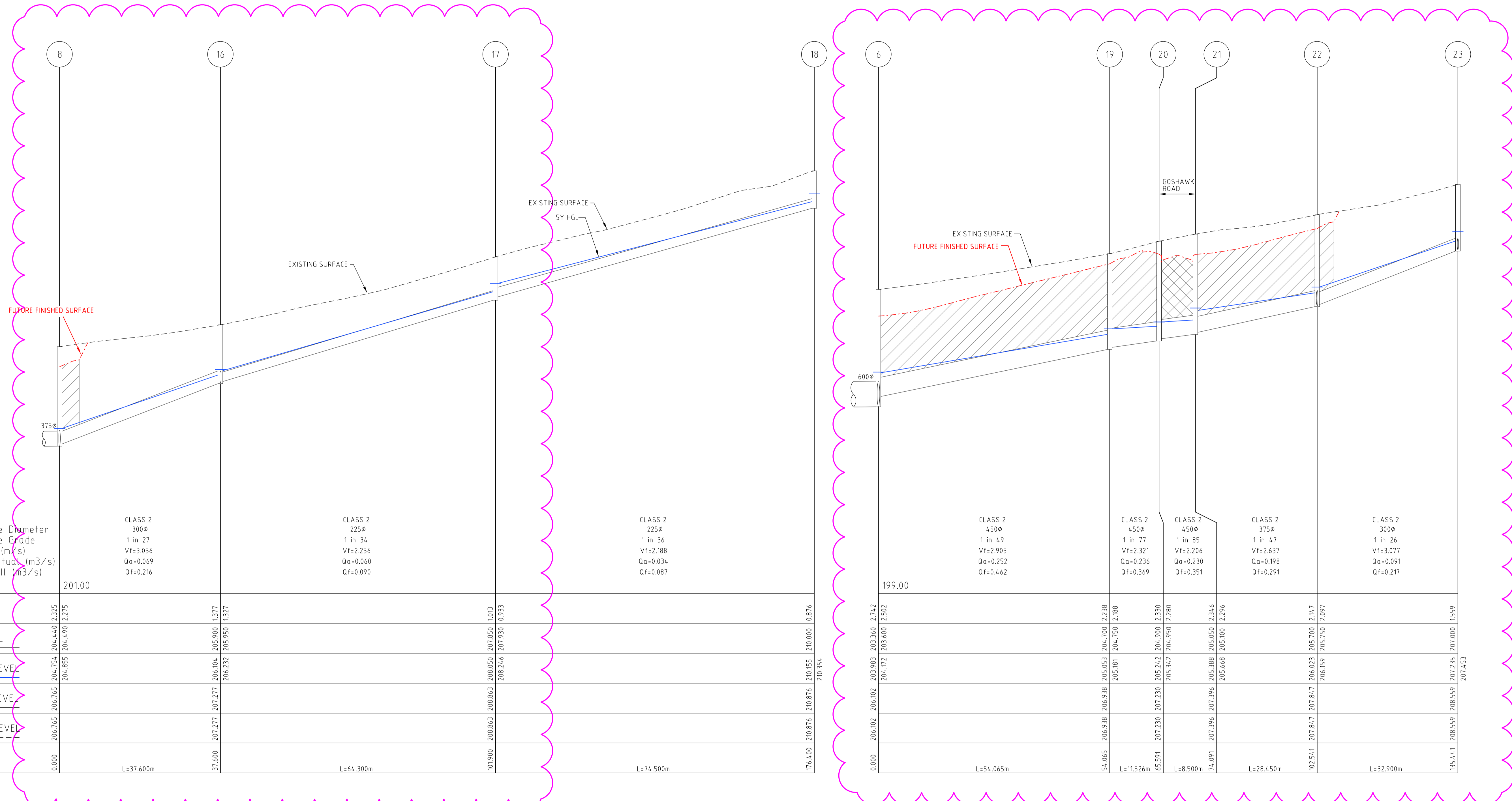
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

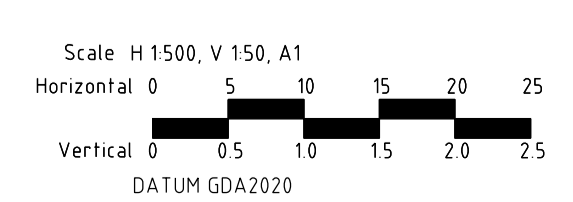
NOTE:

- 1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE
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 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURERS SPECIFICATION
 - b) DEFLECTION ACHIEVED WITHIN RRJ.



Station	Pipe Diameter	Pipe Grade	Vf (m/s)	Qactual (m3/s)	Qfull (m3/s)
0+000 - 37+600	300 ϕ	1 in 27	Vf=3.056	Qa=0.069	Qf=0.216
37+600 - 101+900	225 ϕ	1 in 34	Vf=2.256	Qa=0.060	Qf=0.090
101+900 - 176+600	225 ϕ	1 in 36	Vf=2.188	Qa=0.034	Qf=0.087
176+600 - 199+00	450 ϕ	1 in 49	Vf=2.905	Qa=0.252	Qf=0.462
199+00 - 204+065	450 ϕ	1 in 77	Vf=2.321	Qa=0.236	Qf=0.369
204+065 - 205+181	450 ϕ	1 in 85	Vf=2.206	Qa=0.230	Qf=0.351
205+181 - 206+938	375 ϕ	1 in 47	Vf=2.637	Qa=0.198	Qf=0.291
206+938 - 207+230	300 ϕ	1 in 26	Vf=3.077	Qa=0.091	Qf=0.217

Rev	Amendments	Approved	Date
2	DRAINAGE LONGSECTION UPDATED TO NEW ALIGNMENT	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



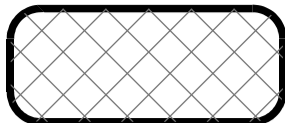
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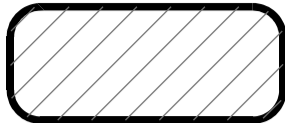
villawood properties
 Communities Designed for Living
 Designed R. WEINBER
 Authorised M. LETSON

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 Checked D. CAMERON
 Date 4/05/20

REDSTONE ESTATE
STAGE 4
DRAINAGE LONG SECTION
SHEET 2 OF 4
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
CONSTRUCTION Drg No **305915R10** Rev **2**



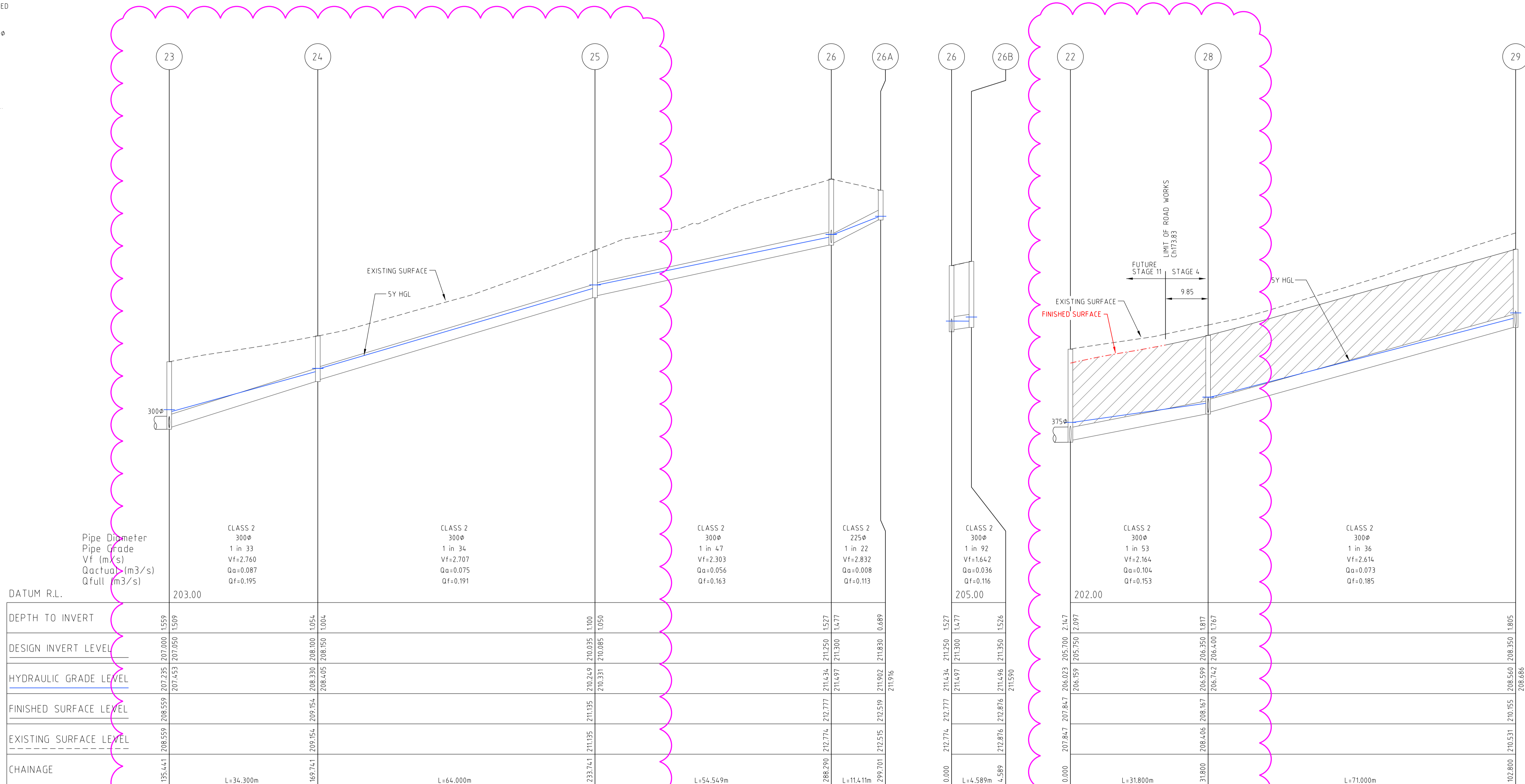
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

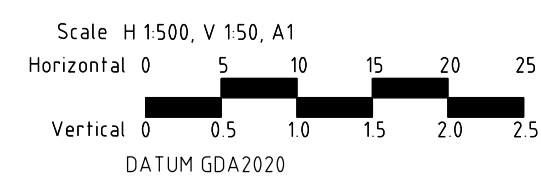
NOTE:

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 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURERS SPECIFICATION
 - b) DEFLECTION ACHIEVED WITHIN RRJ.



	23	24	25	26	26A	26	26B	22	28	29		
Pipe Diameter	300 ϕ	300 ϕ	300 ϕ	300 ϕ	225 ϕ	300 ϕ	300 ϕ	300 ϕ	225 ϕ	300 ϕ		
Pipe Grade	1 in 33	1 in 34	1 in 34	1 in 47	1 in 22	1 in 92	1 in 53	1 in 53	1 in 36	1 in 36		
Vf (m/s)	2.760	2.707	2.707	2.303	2.832	1.642	2.164	2.164	2.614	2.614		
Qactual (m ³ /s)	0.087	0.075	0.075	0.056	0.008	0.036	0.104	0.104	0.073	0.073		
Qfull (m ³ /s)	0.195	0.191	0.191	0.163	0.113	0.116	0.153	0.153	0.185	0.185		
DATUM R.L.	203.00											
DEPTH TO INVERT	1.559	1.509	1.054	1.000	1.477	1.527	1.477	1.147	1.817	1.805		
DESIGN INVERT LEVEL	207.000	207.050	208.000	210.035	211.250	211.300	211.300	205.700	206.350	208.350		
HYDRAULIC GRADE LEVEL	207.453	208.330	208.405	210.449	211.434	211.497	211.496	206.559	206.599	208.560		
FINISHED SURFACE LEVEL	208.559	209.154	211.135	212.777	214.434	212.777	211.496	211.590	212.876	211.830		
EXISTING SURFACE LEVEL	208.559	209.154	211.135	212.774	212.777	212.876	212.876	212.876	212.519	211.830		
CHAINAGE	135.441	169.741	233.741	288.290	299.701	0.000	4.989	207.847	318.800	102.800		
	L=34.300m		L=64.000m		L=54.549m		L=4.589m		L=31.800m		L=71.000m	

Rev	Amendments	Approved	Date
2	DRAINAGE LONGSECTION UPDATED TO NEW ALIGNMENT	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



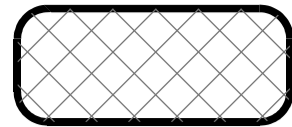
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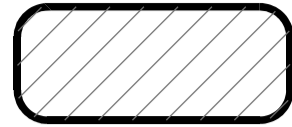
villawood properties
 Communities Designed for Living
 Designed by R. WEINBER
 Authorised by M. LETSON

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REDSTONE ESTATE STAGE 4 DRAINAGE LONG SECTION SHEET 3 OF 4
 VILLAWOOD PROPERTIES HUME CITY COUNCIL
CONSTRUCTION Drg No 305915R11 Rev 2



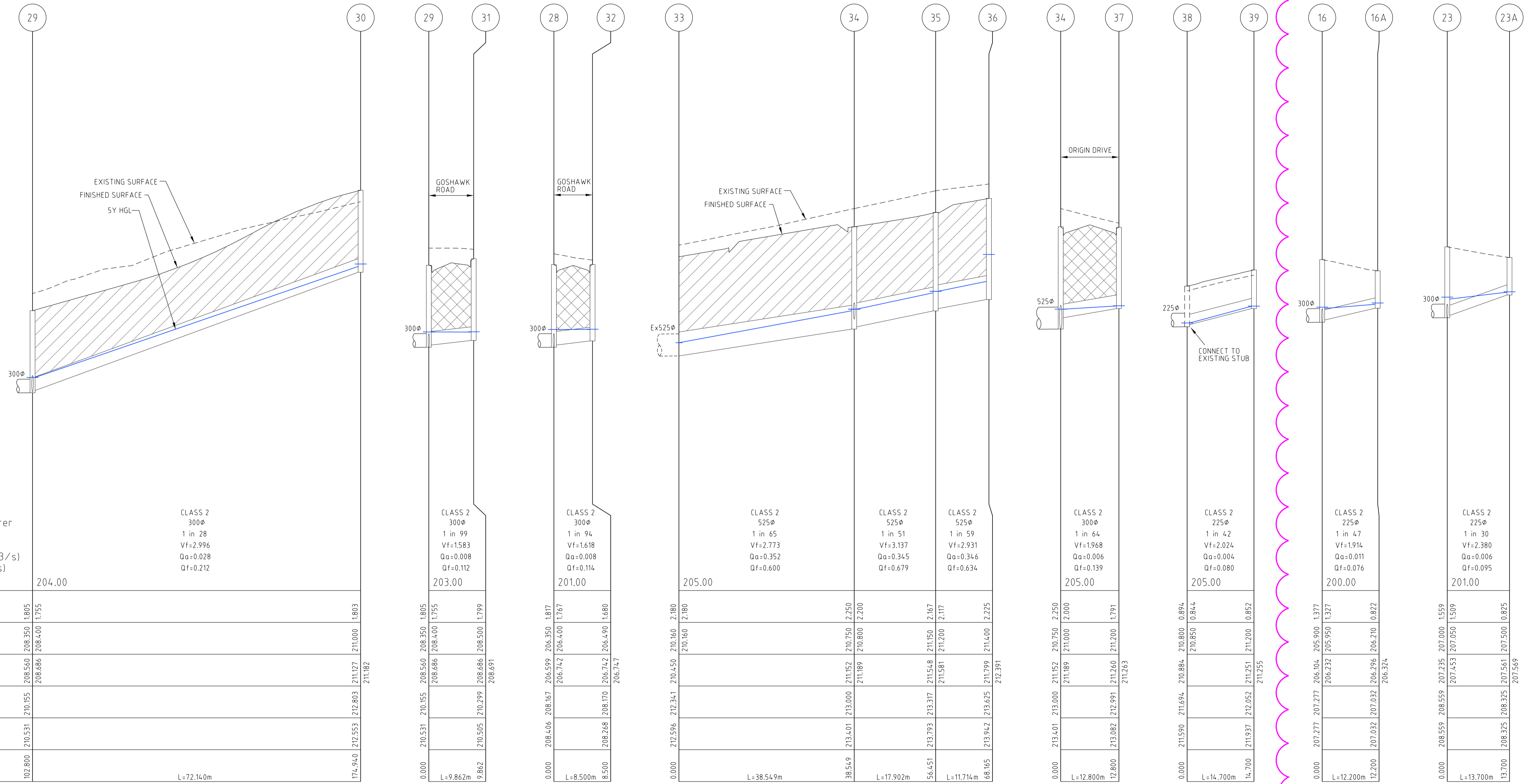
CLASS 2 CRUSHED ROCK



CLASS 3 CRUSHED ROCK

NOTE:

- 1 ALL PIPES TO BE RUBBER RING JOINTED (RRJ) UNLESS NOTED OTHERWISE
- 2 DRAINAGE PIPES GREATER THAN 750φ ARE TO BE FLUSH JOINTED (FJ) WITH EXTERNAL SEALING BANDS.
- 3 CURVED PIPE ALIGNMENTS TO BE ACHIEVED USING EITHER:
 - a) SPLAY PIPES INSTALLED AS PER MANUFACTURERS SPECIFICATION
 - b) DEFLECTION ACHIEVED WITHIN RRJ.



Station	29	30
DATUM R.L.	204.00	
DEPTH TO INVERT	1805	1803
DESIGN INVERT LEVEL	208.350	211.000
HYDRAULIC GRADE LEVEL	208.560	211.127
FINISHED SURFACE LEVEL	210.155	212.803
EXISTING SURFACE LEVEL	210.531	212.803
CHAINAGE	102.800	174.940

CLASS 2
 300φ
 1 in 28
 Vf=2.996
 Qa=0.028
 Qf=0.212
 L=72.140m

Station	29	31	28	32
DATUM R.L.	203.00		201.00	
DEPTH TO INVERT	1805	1799	1817	1680
DESIGN INVERT LEVEL	208.400	208.500	206.400	206.450
HYDRAULIC GRADE LEVEL	208.686	208.686	206.742	206.742
FINISHED SURFACE LEVEL	210.155	210.299	208.167	208.170
EXISTING SURFACE LEVEL	210.531	210.505	208.406	208.268
CHAINAGE	0.000	9.862	0.000	8.500

CLASS 2
 300φ
 1 in 99
 Vf=1.583
 Qa=0.008
 Qf=0.112
 L=9.862m

CLASS 2
 300φ
 1 in 94
 Vf=1.618
 Qa=0.008
 Qf=0.114
 L=8.500m

Station	33	34	35	36
DATUM R.L.	205.00			
DEPTH TO INVERT	2180	2250	2167	2225
DESIGN INVERT LEVEL	210.160	210.750	210.800	211.400
HYDRAULIC GRADE LEVEL	210.450	211.152	211.548	211.799
FINISHED SURFACE LEVEL	212.341	213.000	213.317	213.625
EXISTING SURFACE LEVEL	212.596	213.401	213.793	213.942
CHAINAGE	0.000	38.549	56.451	68.165

CLASS 2
 525φ
 1 in 65
 Vf=2.773
 Qa=0.352
 Qf=0.600
 L=38.549m

CLASS 2
 525φ
 1 in 51
 Vf=3.137
 Qa=0.345
 Qf=0.679
 L=17.902m

CLASS 2
 525φ
 1 in 59
 Vf=2.931
 Qa=0.346
 Qf=0.634
 L=11.714m

Station	34	37	38	39
DATUM R.L.	205.00		205.00	
DEPTH TO INVERT	2250	1791	0.894	0.852
DESIGN INVERT LEVEL	211.000	211.200	210.850	211.200
HYDRAULIC GRADE LEVEL	211.189	211.251	210.884	211.251
FINISHED SURFACE LEVEL	213.000	212.991	211.694	212.052
EXISTING SURFACE LEVEL	213.401	213.082	211.590	211.937
CHAINAGE	0.000	12.800	0.000	14.700

CLASS 2
 300φ
 1 in 64
 Vf=1.968
 Qa=0.006
 Qf=0.139
 L=12.800m

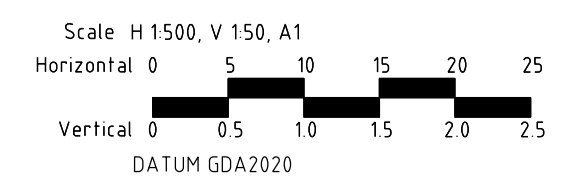
CLASS 2
 225φ
 1 in 42
 Vf=2.024
 Qa=0.004
 Qf=0.080
 L=14.700m

Station	16	16A	23	23A
DATUM R.L.	200.00		201.00	
DEPTH TO INVERT	1377	1309	1559	0.825
DESIGN INVERT LEVEL	205.950	207.950	207.550	207.500
HYDRAULIC GRADE LEVEL	206.232	206.296	206.296	207.561
FINISHED SURFACE LEVEL	207.277	207.032	207.032	208.325
EXISTING SURFACE LEVEL	207.277	207.032	207.235	208.325
CHAINAGE	0.000	12.200	0.000	13.700

CLASS 2
 300φ
 1 in 47
 Vf=1.914
 Qa=0.011
 Qf=0.076
 L=12.200m

CLASS 2
 225φ
 1 in 30
 Vf=2.380
 Qa=0.006
 Qf=0.095
 L=13.700m

Rev	Description	Approved	Date
2	DRAINAGE LONGSECTION UPDATED TO NEW ALIGNMENT	M.T.S	05/04/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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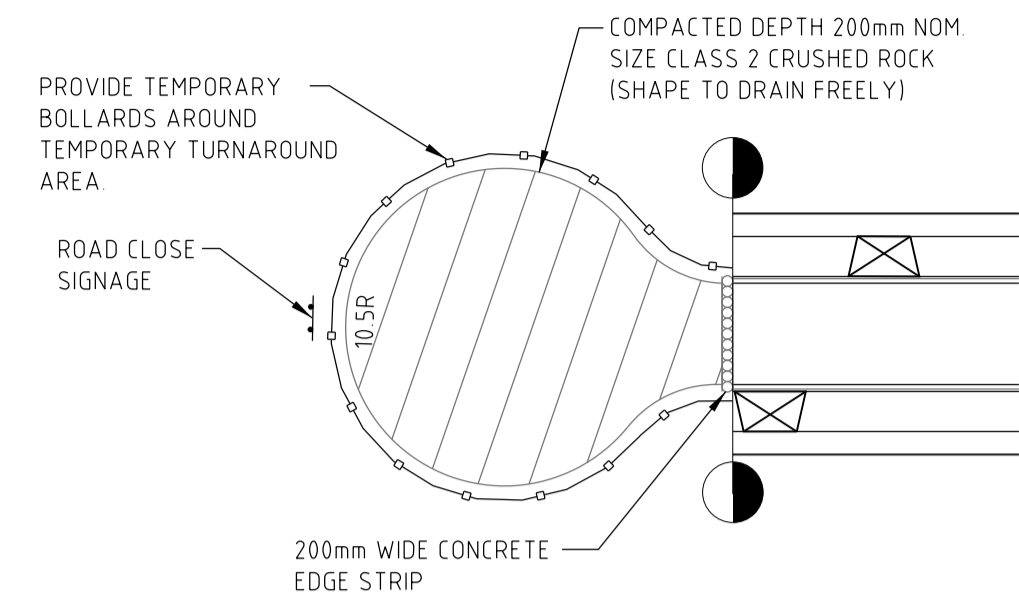
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Communities Designed for Living
 Designed R. WEINBER
 Authorised M. LETSON

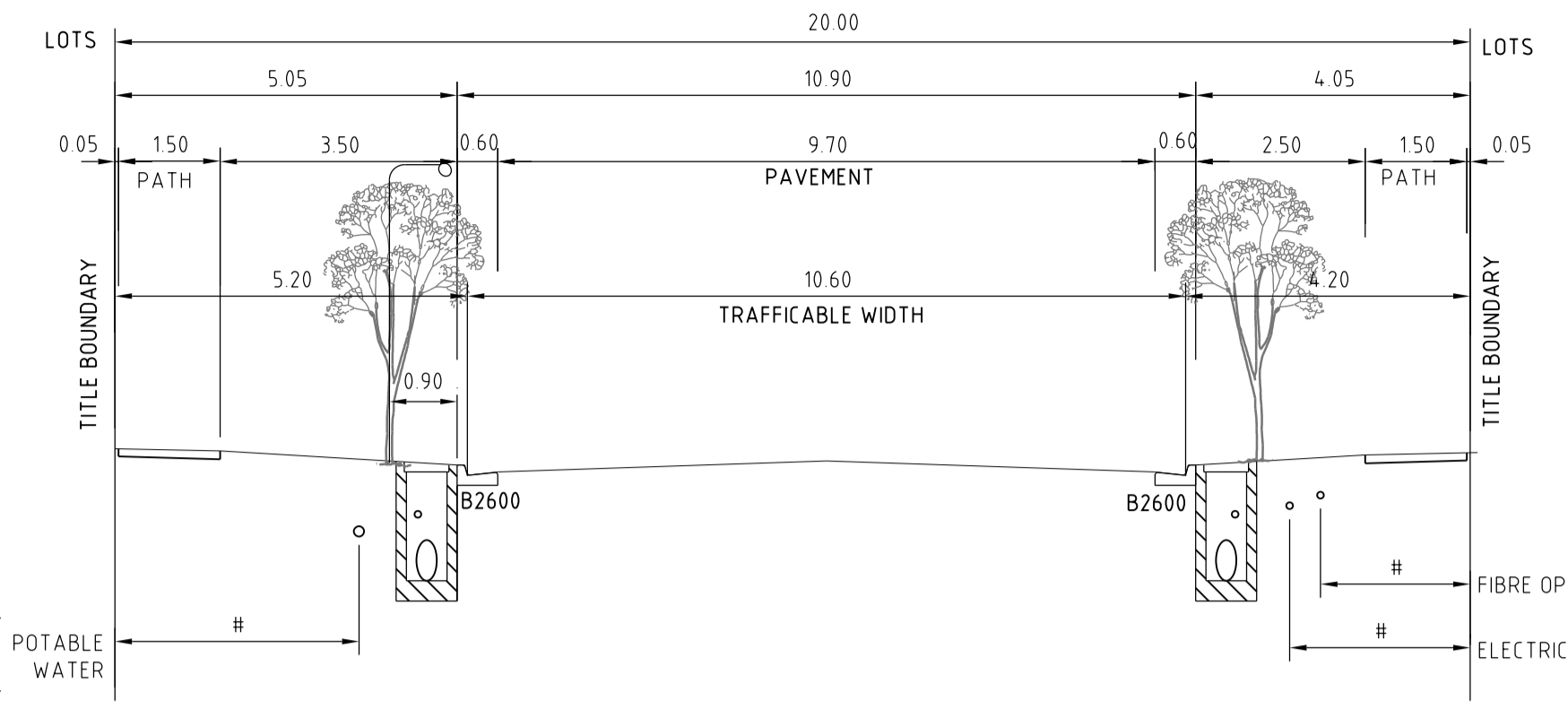
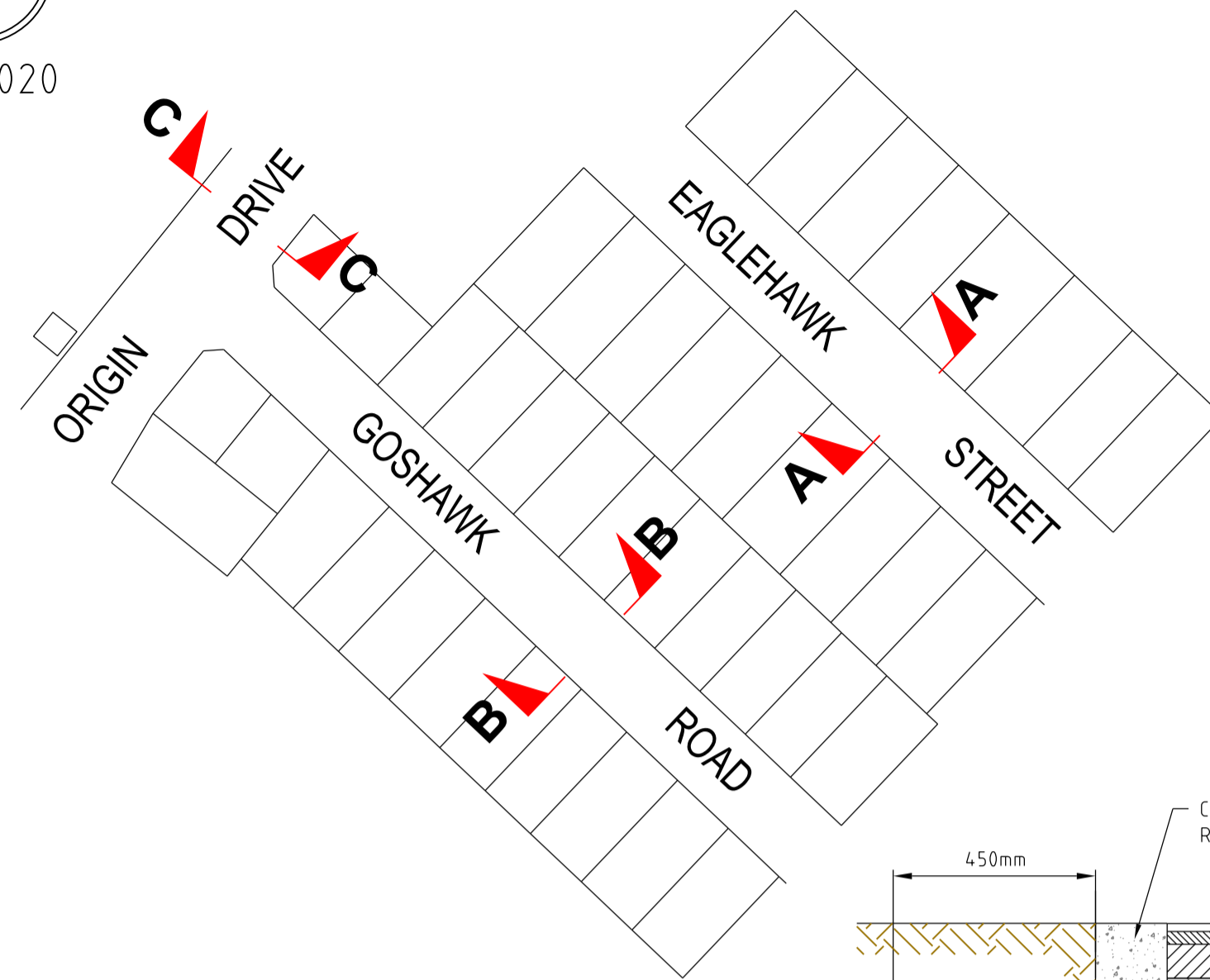
Your world awaits
 Checked D. CAMERON
 Date 4/05/20

REDSTONE ESTATE
STAGE 4
DRAINAGE LONG SECTION
SHEET 4 OF 4
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL

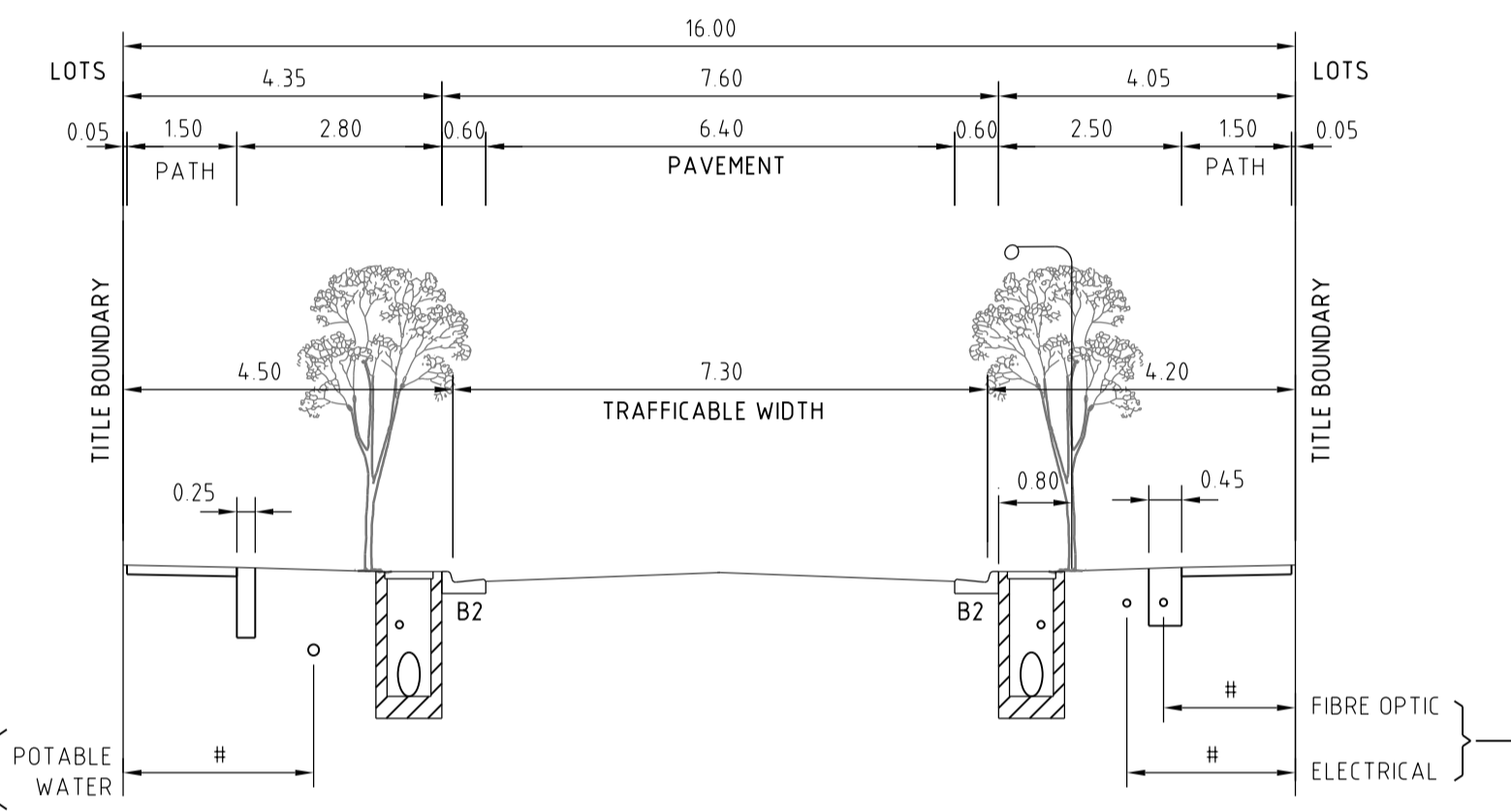
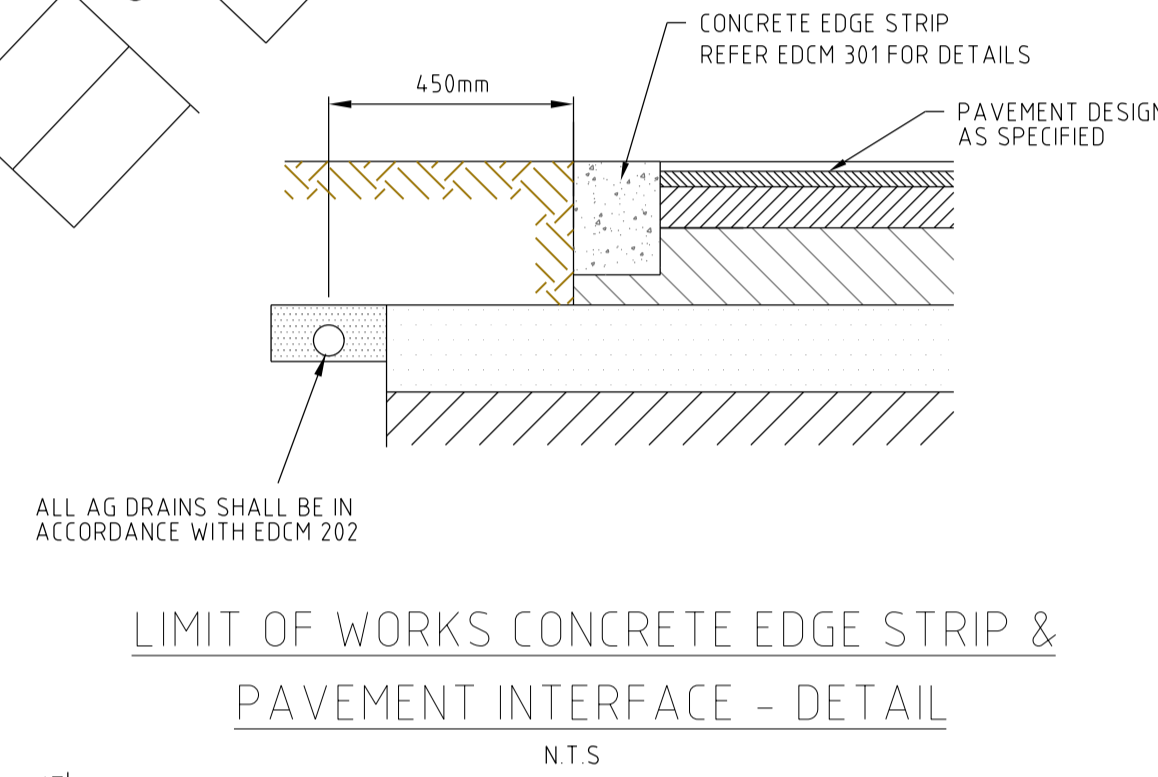
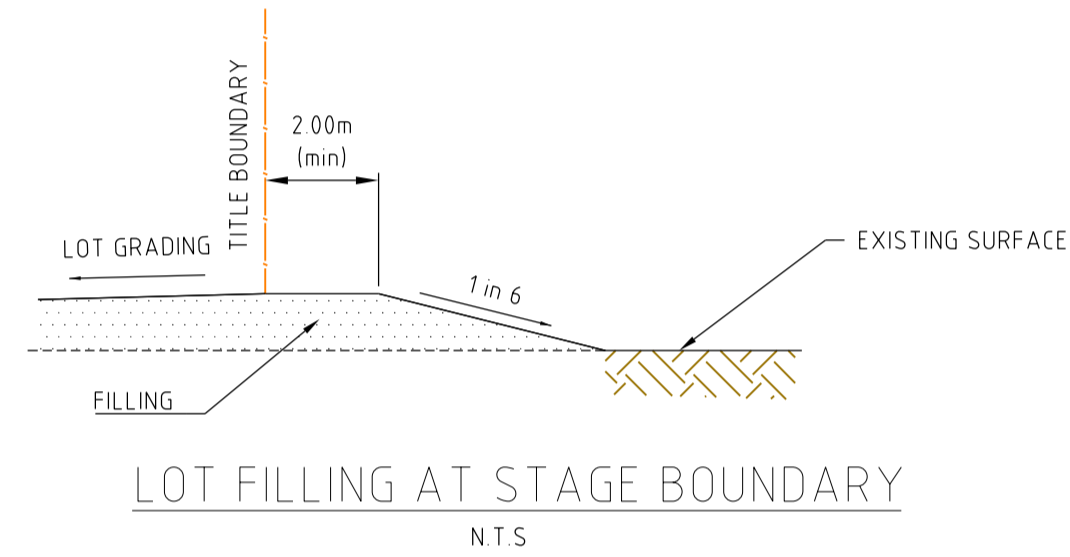
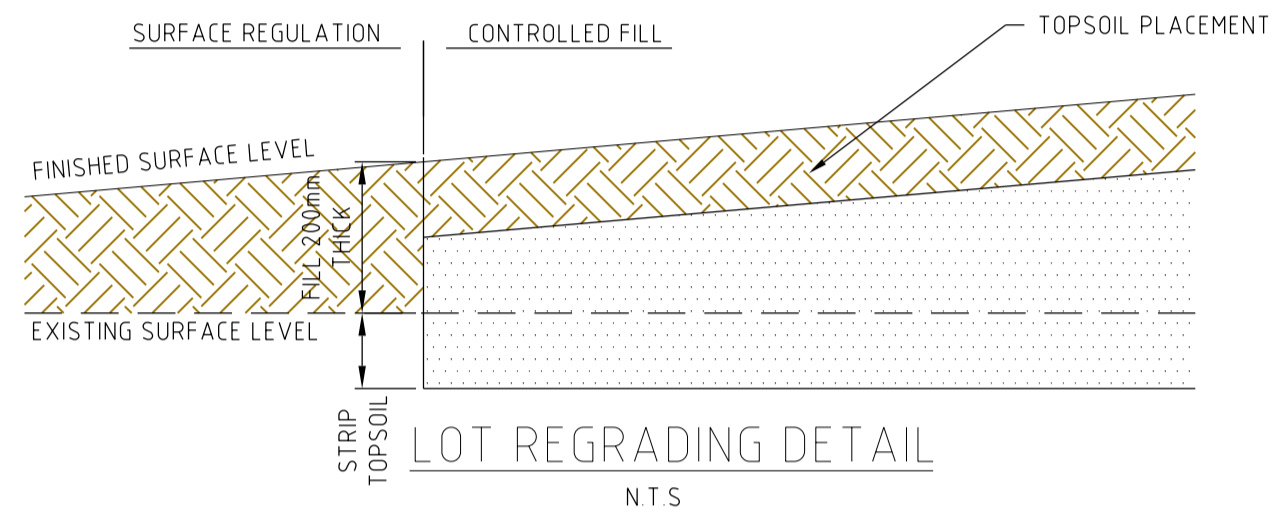
CONSTRUCTION Drg No **305915R12** Rev **2**



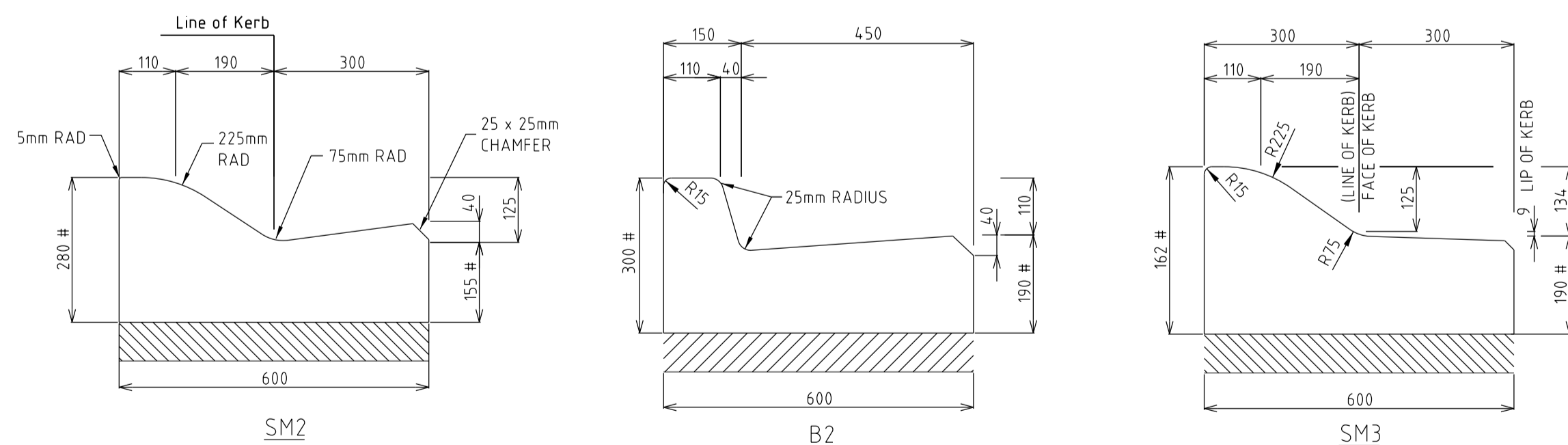
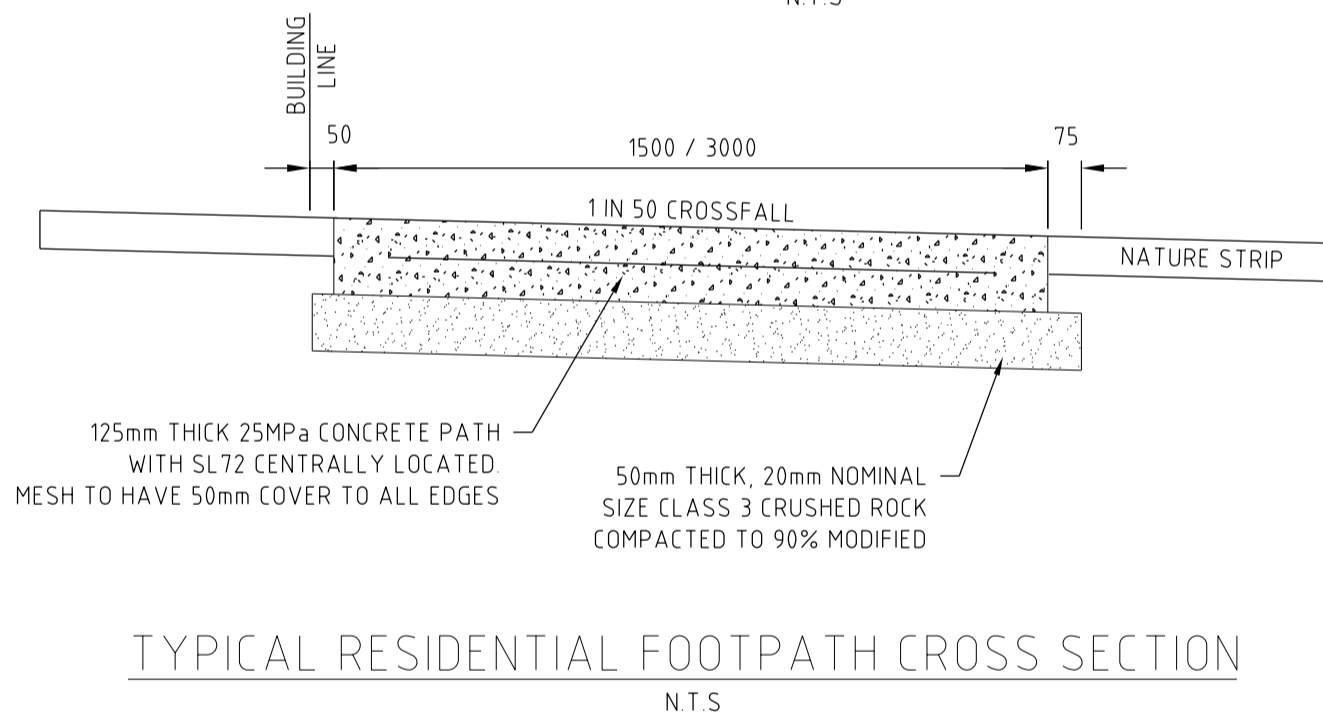
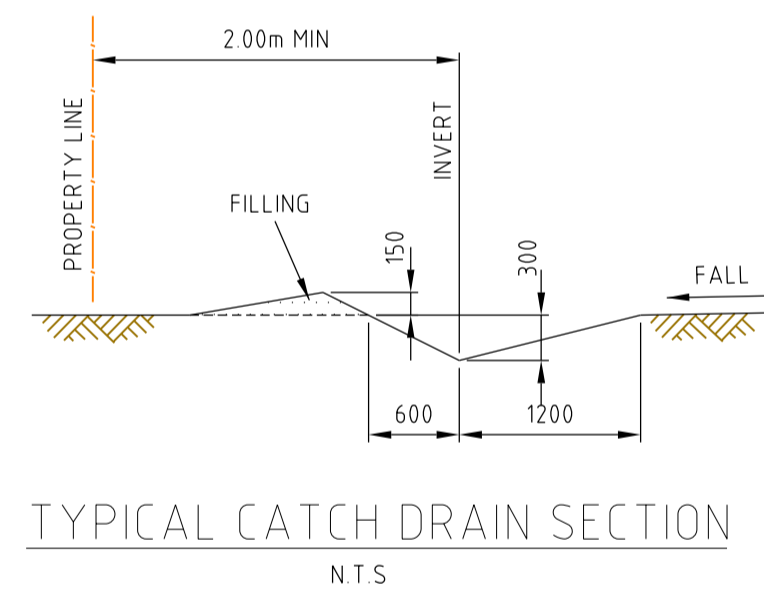
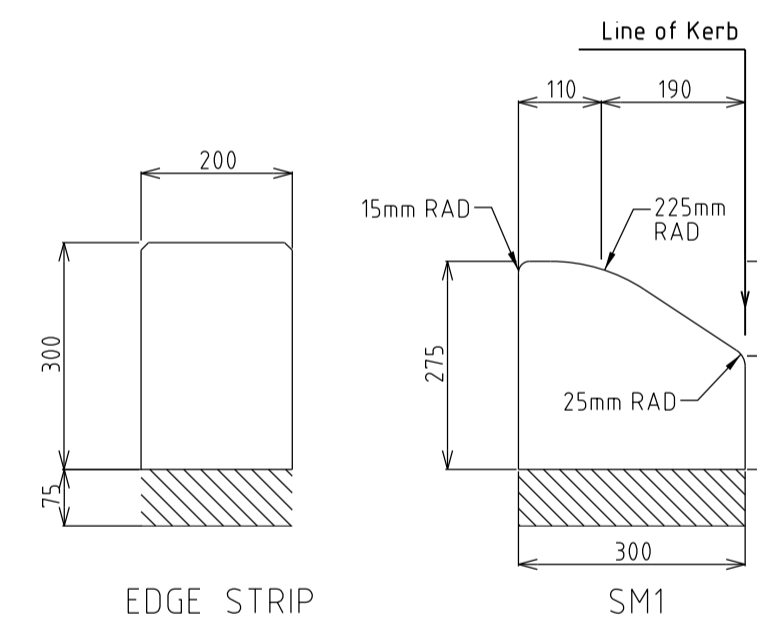
TEMPORARY TURNING AREA DETAIL



SECTION A - A
TYPICAL 20.00m ROAD RESERVE
EAGLEHAWK STREET

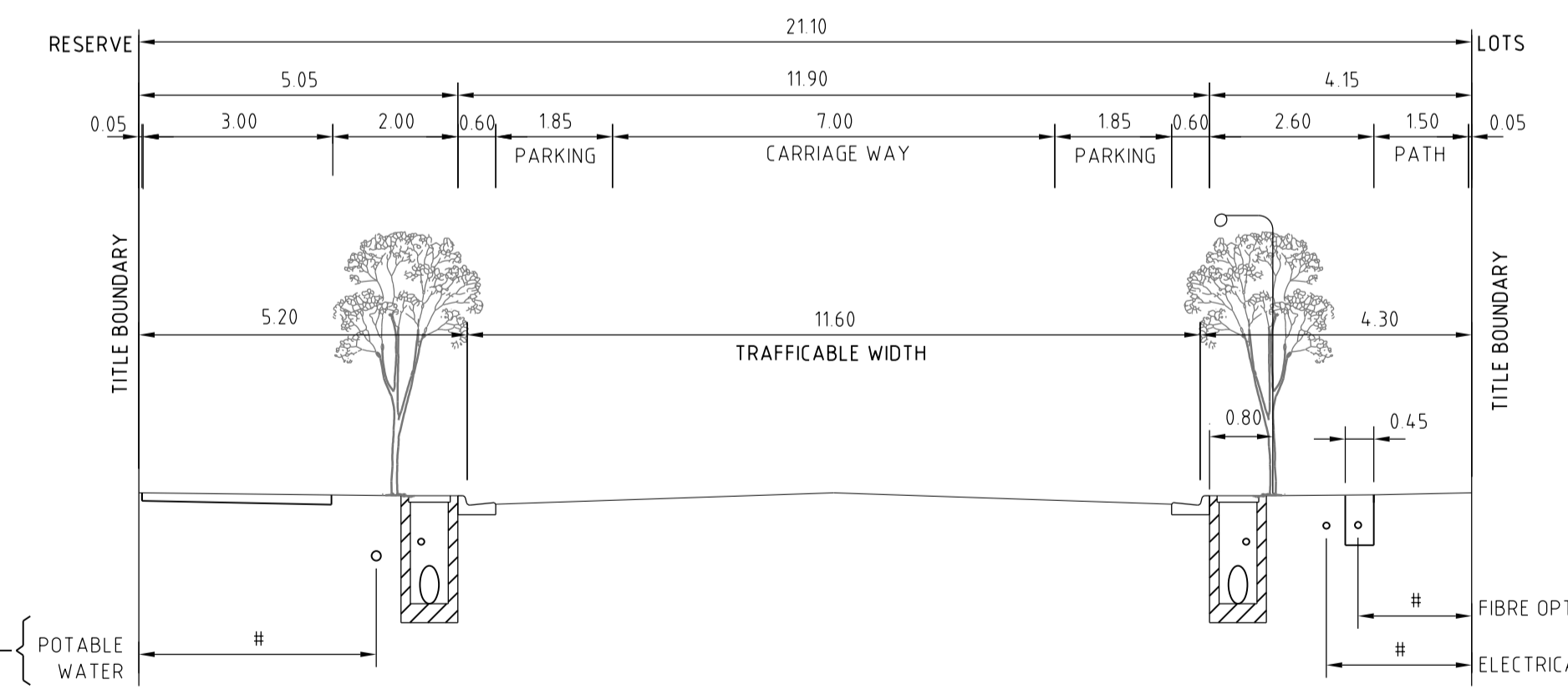


SECTION B - B
TYPICAL 16.00m ROAD RESERVE
GOSHAWK ROAD



STANDARD KERB PROFILES
NOT TO SCALE

- NOTES:
1. ALL KERBS AND KERB & CHANNEL TO BE REINFORCED IN ACCORDANCE WITH MUNICIPALITY STD DRAWINGS.
 2. ALL KERBS AND KERB & CHANNEL TO HAVE 190mm DEPTH OF CONCRETE BELOW TOP OF PAVEMENT LEVEL.
 3. DIMENSION SHOWN # DEPTH TO BE ADJUSTED TO ACCOMMODATE SAMI SEAL LAYER.



SECTION C - C
TYPICAL 21.10m ROAD RESERVE
ORIGIN DRIVE

Rev	Amendments	Approved	Date
2	GAS REMOVED	M.T.S	30/4/21
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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Designed
R. WEINBER
Authorised
M. LETSON



Checked
Date
4/05/20

REDSTONE ESTATE
STAGE 4
TYPICAL CROSS SECTIONS
AND TYPICAL DETAILS
VILLAWOOD PROPERTIES
HUME CITY COUNCIL

CONSTRUCTION Drg No
305915R13

Rev
2

DESIGN PAVEMENT PROFILE FOR AREA 2

PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 2
WEARING COURSE	Size 10mm Type N Asphalt with a C170 binder	30
STRUCTURAL COURSE	Size 10mm Type N Asphalt with a C170 binder	30
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE	20mm nominal size Class 2 FCR, compacted to at least 98% Modified Dry Density Ratio with a mean value of at least 100% Modified Dry Density Ratio and within 1% of the Modified Optimum Moisture Content	130
UPPER PAVEMENT TOTAL		200
SUB-BASE COURSE	20mm nominal size Class 3 FCR, compacted to at least 95% Modified Dry Density Ratio with a mean value of at least 98% Modified Dry Density Ratio and within 1% of the modified Optimum Moisture Content.	100
LOWER SUB-BASE COURSE	20mm nominal size Class 4 CR, compacted to at least 95% Modified Dry Density Ratio with a mean value of at least 98% Modified Dry Density Ratio and within 1% of the Modified Optimum Moisture Content	100
SELECT SUB-BASE COURSE	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	190
TOTAL PAVEMENT DEPTH		600
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR \times 2.0%) within 2% of the Standard Optimum Moisture Content	



DESIGN PAVEMENT PROFILE FOR AREA 4

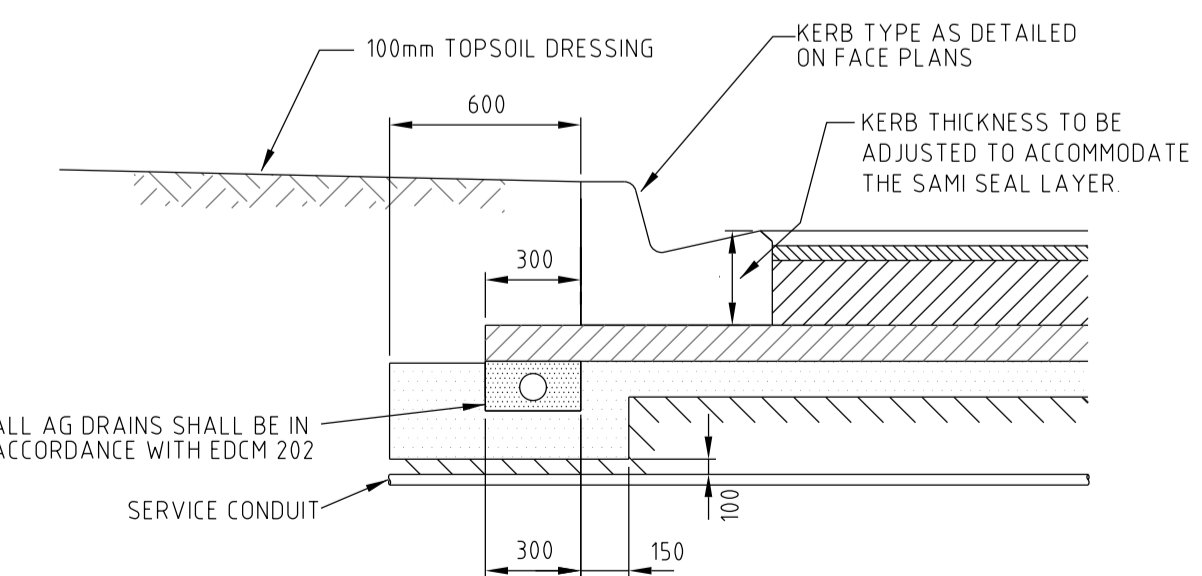
PAVEMENT LAYER	DESCRIPTION	DEPTH (mm)
		AREA 4
WEARING COURSE	Size 14mm Type N Asphalt with a C170 binder	40
STRUCTURAL COURSE	Size 14mm Type HP Asphalt with a A10E binder	40
WATER-PROOFING COURSE	SAMI seal with Class S18RF binder and bituminous prime	10
BASE COURSE	20mm nominal size Class 2 FCR, compacted to at least 100% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	110
UPPER PAVEMENT TOTAL		200
UPPER SUB-BASE COURSE	20mm nominal size Class 3 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	100
LOWER SUB-BASE COURSE	20mm nominal size Class 4 FCR, compacted to at least 98% Characteristic Modified Dry Density Ratio within 1% of the Modified Optimum Moisture Content	170
SELECT SUB-BASE COURSE	Select granular material with a minimum soaked CBR of 10% compacted to 98% Standard Dry Density Ratio with a mean value of at least 100% Standard Dry Density Ratio and within 1% of the Standard Optimum Moisture Content and a percentage swell of less than 15%	190
TOTAL PAVEMENT DEPTH		660
SUBGRADE	Natural Silty CLAY tested to confirm an in-situ CBR of at least 2.0% OR approved FILL compacted to at least 100% Standard Dry Density ratio (soaked CBR \times 2.0%) within 2% of the Standard Optimum Moisture Content	

PAVEMENT DETAILS

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

THE DESIGN HAS BEEN EXTRACTED FROM THE CARDNO VICTORIA PTY LTD REPORT TITLED "GEOTECHNICAL INVESTIGATION FOR PROPOSED RESIDENTIAL SUBDIVISION REDSTONE HILL SUNBURY SOUTH" V180556 REPORT 012. 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 CARDNO VICTORIA PTY LTD AND SENT TO SPIIRE.



PAVEMENT PLAN
1:1000 A1
0 10 20 30 40 50

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

NEW CONSTRUCTION
N T S

Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21



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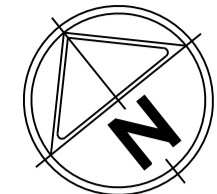


Checked
D. CAMERON
Date
4/05/20

REDSTONE ESTATE
STAGE 4
PAVEMENT DETAILS

VILLAWOOD PROPERTIES
HUME CITY COUNCIL





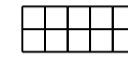
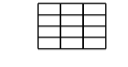

CONSTRUCTION Drg No 305915R14



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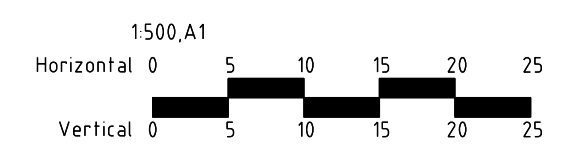
LEGEND

-  **STREET NAME** STREET NAME PLATES TO BE IN ACCORDANCE WITH HCC SD408 & SD412, INCLUDING "NO THROUGH ROAD" NOMINATION WHERE APPLICABLE.
-  **ROAD CLOSED** G9-20
-   D4-5
-  TGSi KERB RAMP } HAZARD / DIRECTIONAL TGSi'S SHOW INDICATIVELY
-  TGSi DIRECTIONAL } FOOTPATH RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH EDGM 4.03
-  1-WAY RRPM (5m SPACING) TGSi'S SHALL CONFORM TO AS1428.4

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.

 NOTIONAL CARPARKING SPACES

Rev	Amendments	Approved	Date
1	ROAD NAMES UPDATED	M.T.S	25/3/21
0	CONSTRUCTION ISSUE	M.L	22/2/21




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**REDSTONE ESTATE
 STAGE 4
 SIGNAGE, LINEMARKING & CARPARKING PLAN**
 VILLAWOOD PROPERTIES
 HUME CITY COUNCIL
CONSTRUCTION Drg No 305915R15 Rev 1