MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

FOR

URBAN GROWTH

DRAWING LIST	
30012003-001	COVER SHEET, DRAWING LIST & LOCALITY PLAN
30012003-002	OVERALL SITE PLAN & NOTES
30012003-003	GENERAL ARRANGEMENT - SHEET 1
30012003-004	GENERAL ARRANGEMENT - SHEET 2
30012003-005	GENERAL ARRANGEMENT - SHEET 3
30012003-006	TYPICAL SECTIONS & DETAILS
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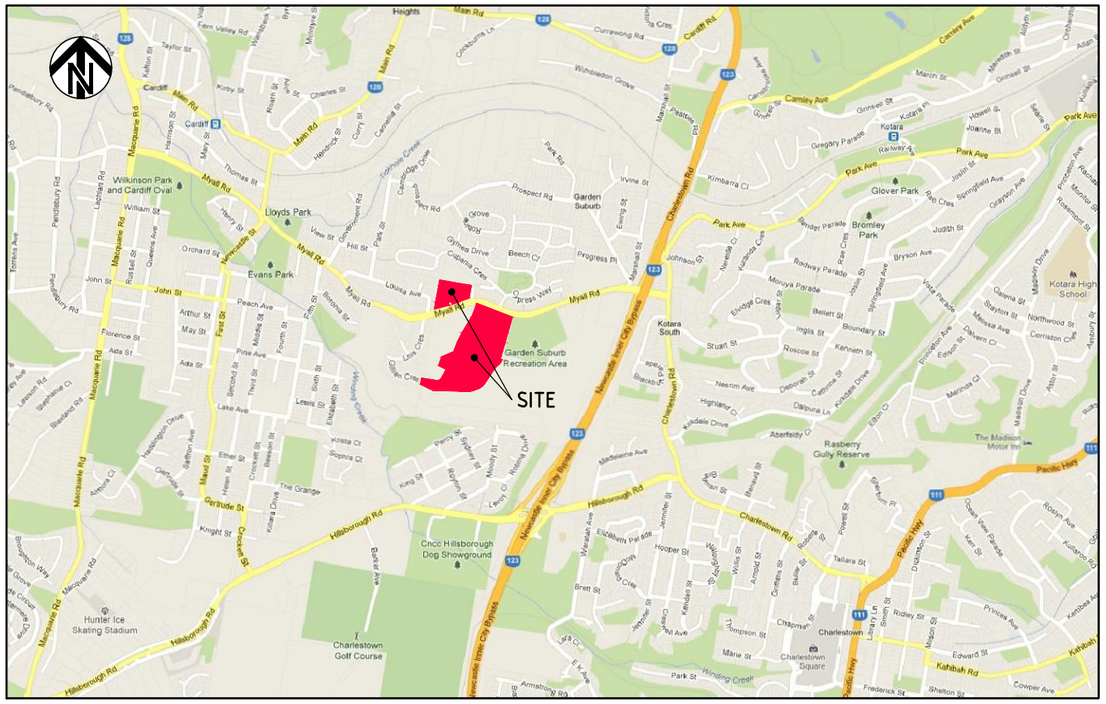
30012003-008	ROAD 2 LONGITUDINAL SECTION - SHEET 1
30012003-009	ROAD 2 LONGITUDINAL SECTION - SHEET 2
30012003-010	ROAD 2 LONGITUDINAL SECTION - SHEET 3
30012003-011	ROAD 3 LONGITUDINAL SECTION
30012003-012	ROAD 4 LONGITUDINAL SECTION
30012003-013	ROAD 5 & ROAD 6 LONGITUDINAL SECTIONS
30012003-014	ROAD 7 LONGITUDINAL SECTION
30012003-015	ROAD 1 CROSS SECTIONS
30012003-016	ROAD 2 CROSS SECTIONS - SHEET 1
30012003-017	ROAD 2 CROSS SECTIONS - SHEET 2
30012003-018	ROAD 2 CROSS SECTIONS - SHEET 3
30012003-019	ROAD 2 CROSS SECTIONS - SHEET 4
30012003-020	ROAD 2 CROSS SECTIONS - SHEET 5
30012003-021	ROAD 3 CROSS SECTIONS
30012003-022	ROAD 4 CROSS SECTIONS - SHEET 1
30012003-023	ROAD 4 CROSS SECTIONS - SHEET 2
30012003-024	ROAD 5 CROSS SECTIONS - SHEET 1
30012003-025	ROAD 5 CROSS SECTIONS - SHEET 2
30012003-026	ROAD 6 CROSS SECTIONS - SHEET 1
30012003-027	ROAD 6 CROSS SECTIONS - SHEET 2
30012003-028	ROAD 7 CROSS SECTIONS
30012003-029	BASIN A PLAN & TYPICAL SECTION
30012003-030	BASIN B PLAN & TYPICAL SECTION
30012003-031	BASIN C PLAN & TYPICAL SECTION
30012003-032	SITE REGRADING SLOPE ANALYSIS PLAN



LOCALITY PLAN
1:15000

150 mm ON ORIGINAL

A1

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES: X_Newc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
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TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING
SCALE 1:15000 — 100 0 150 300 450 600 750

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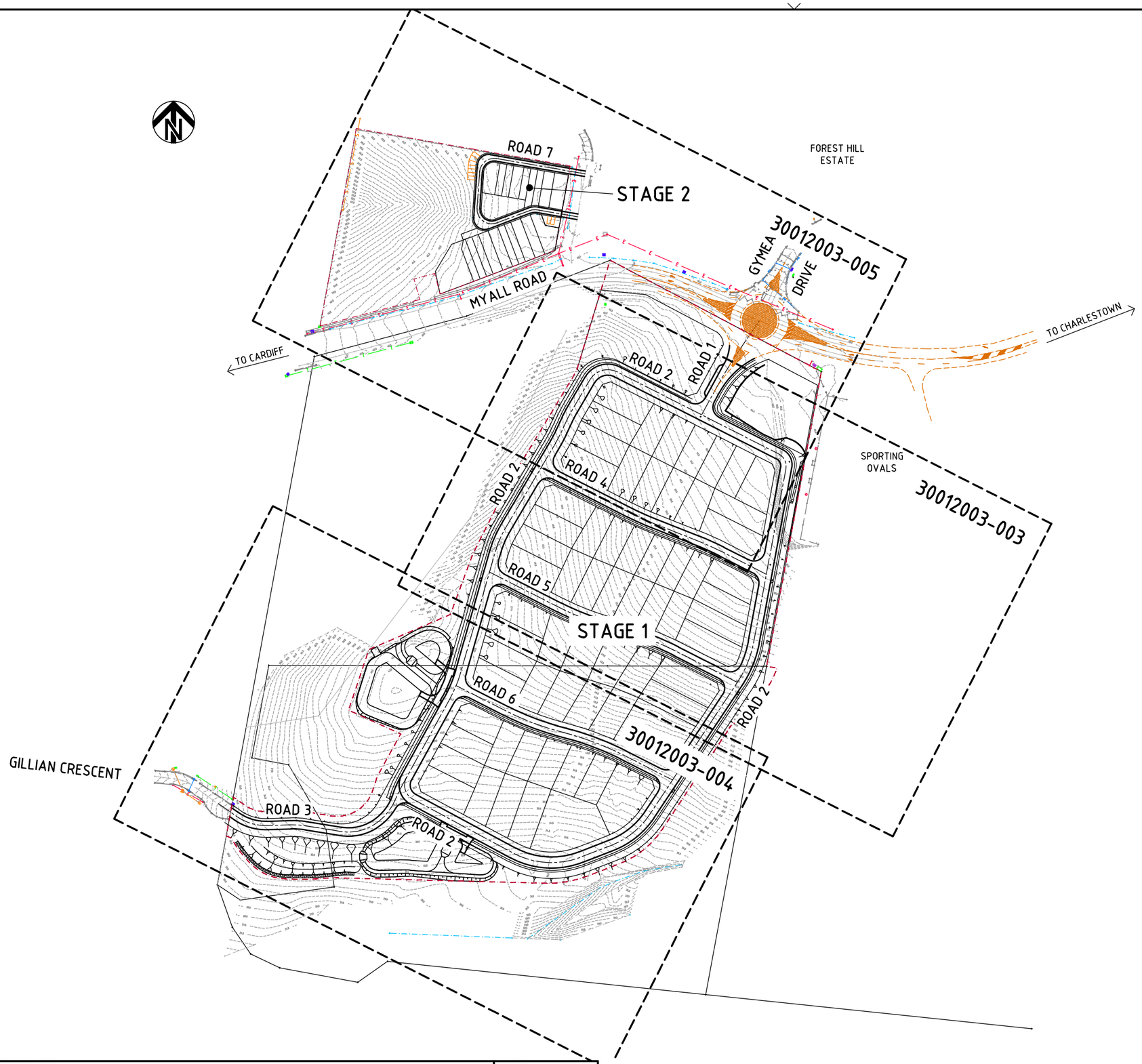
SMEC PROJECT No 30012003

CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
COVER SHEET, DRAWING LIST
& LOCALITY PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:15000	PRELIMINARY	30012003-001	04



NOTES:

1. THESE DRAWINGS ARE FOR CONCEPT ONLY AND SUBJECT TO CHANGE AT DETAIL DESIGN.
2. SITE REGRADING OF LOTS IS SUBJECT TO ALTERATION AT DETAIL DESIGN.
3. BATTERS IN FRONT OF LOTS MAY BE REPLACED AT DETAIL DESIGN STAGE WITH ENGINEER DESIGNED RETAINING WALLS SET BACK FROM FRONT BOUNDARY TO ALLOW FOR THE CONSTRUCTION OF A SPLIT LEVEL GARAGE UNDERNEATH DESIGN.
4. RETAINING WALL HEIGHTS ARE SUBJECT TO CHANGE AT DETAIL DESIGN STAGE. RETAINING WALLS MAY BE REPLACED WITH A 1V:4H BATTER AT DETAIL DESIGN.
5. BIOFILTRATION AREAS ARE TO BE CONSTRUCTED AT FIRST STAGE OF WORKS AND ACT AS SEDIMENT BASINS.
6. PAVEMENT DESIGN TO BE UNDERTAKEN AT DETAIL DESIGN STAGE.
7. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH LAKE MACQUARIE CITY COUNCIL ENGINEEING GUIDELINES.

DRAWING FILE LOCATION / NAME: T:\Projects\30012003\CAD\DWG\30012003-002_[04].dwg

PLOT DATE: 19 May 2014 TIME: 11:47:43

EXTERNAL REFERENCE FILES: X_Nevr_a1_30012003, X_DA_SURV, X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
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DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING: SCALE 1:1500 (15 0 15 30 45 60 75)

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CLIENT: Urban Growth NSW

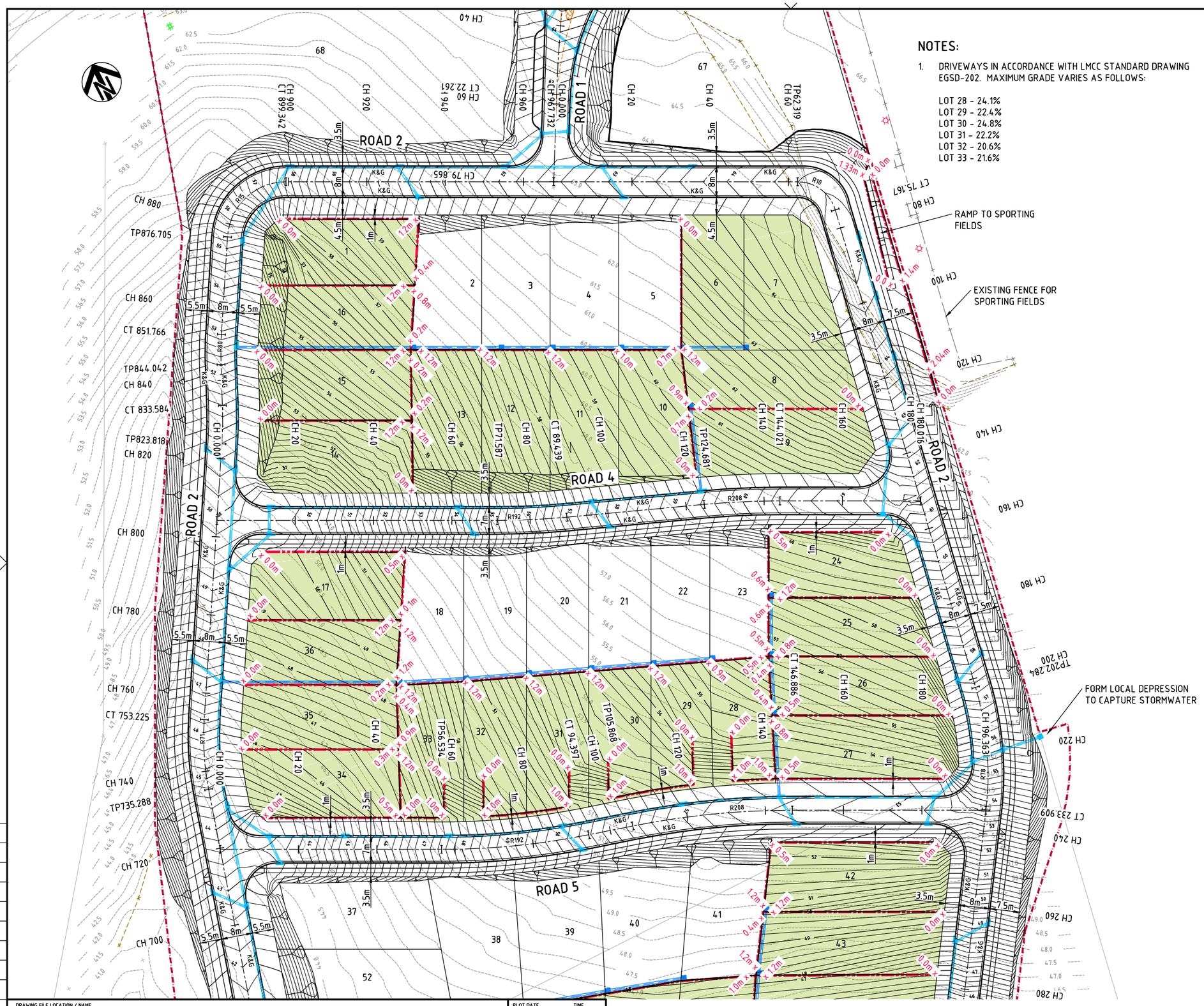
PROJECT TITLE: MYALL ROAD, HILLSBOROUGH DEVELOPMENT APPLICATION

OVERALL SITE PLAN & NOTES

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:1500	PRELIMINARY	30012003-002	04

150 mm ON ORIGINAL

A1



NOTES:

1. DRIVEWAYS IN ACCORDANCE WITH LMCC STANDARD DRAWING EGSD-202. MAXIMUM GRADE VARIES AS FOLLOWS:

   LOT 28 - 24.1%
   LOT 29 - 22.4%
   LOT 30 - 24.8%
   LOT 31 - 22.2%
   LOT 32 - 20.6%
   LOT 33 - 21.6%

LEGEND

- DEVELOPMENT FOOTPRINT
- ROAD CENTRELINE
- 150mm KERB & GUTTER
- RETAINING WALL
- x 0.2m RETAINING WALL HEIGHT
- PROPOSED STORMWATER DRAINAGE LINE
- PROPOSED KERB INLET PIT
- PROPOSED SAG INLET PIT
- PROPOSED JUNCTION PIT
- PROPOSED HEADWALL
- PROPOSED INTERALLOTMENT DRAINAGE LINE
- PROPOSED INTERALLOTMENT PIT
- SUBSOIL DRAINAGE PIPE
- DIVERSION DRAIN
- PROPOSED FENCE
- SCOUR PROTECTION
- BIOFILTRATION AREA
- SEDIMENT FOREBAY
- SITE REGRADING
- DESIGN CONTOUR - 1.0m INTERVAL
- DESIGN CONTOUR - 0.2m INTERVAL
- RIPARIAN ZONE
- EXISTING CONTOUR
- EXISTING TOP OF BANK
- EXISTING BOTTOM OF BANK
- EXISTING TABLE DRAIN
- EXISTING STORMWATER PIPE
- EXISTING SEWER MAIN
- EXISTING SEWER MAINTENANCE HOLE
- EXISTING POWER LINE
- EXISTING TELSTRA LINE
- EXISTING HYDRANT
- EXISTING TELSTRA PIT
- EXISTING STOP VALVE
- EXISTING GAS VALVE

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES: X_Newc_a1_30012003, X_LEGEND, X_DA_SURV, X_DA_DESIGN

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DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:500 (5 0 10 20)

DESIGNER

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Urban Growth NSW

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MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

GENERAL ARRANGEMENT SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500	PRELIMINARY	30012003-003	04

150 mm ON ORIGINAL
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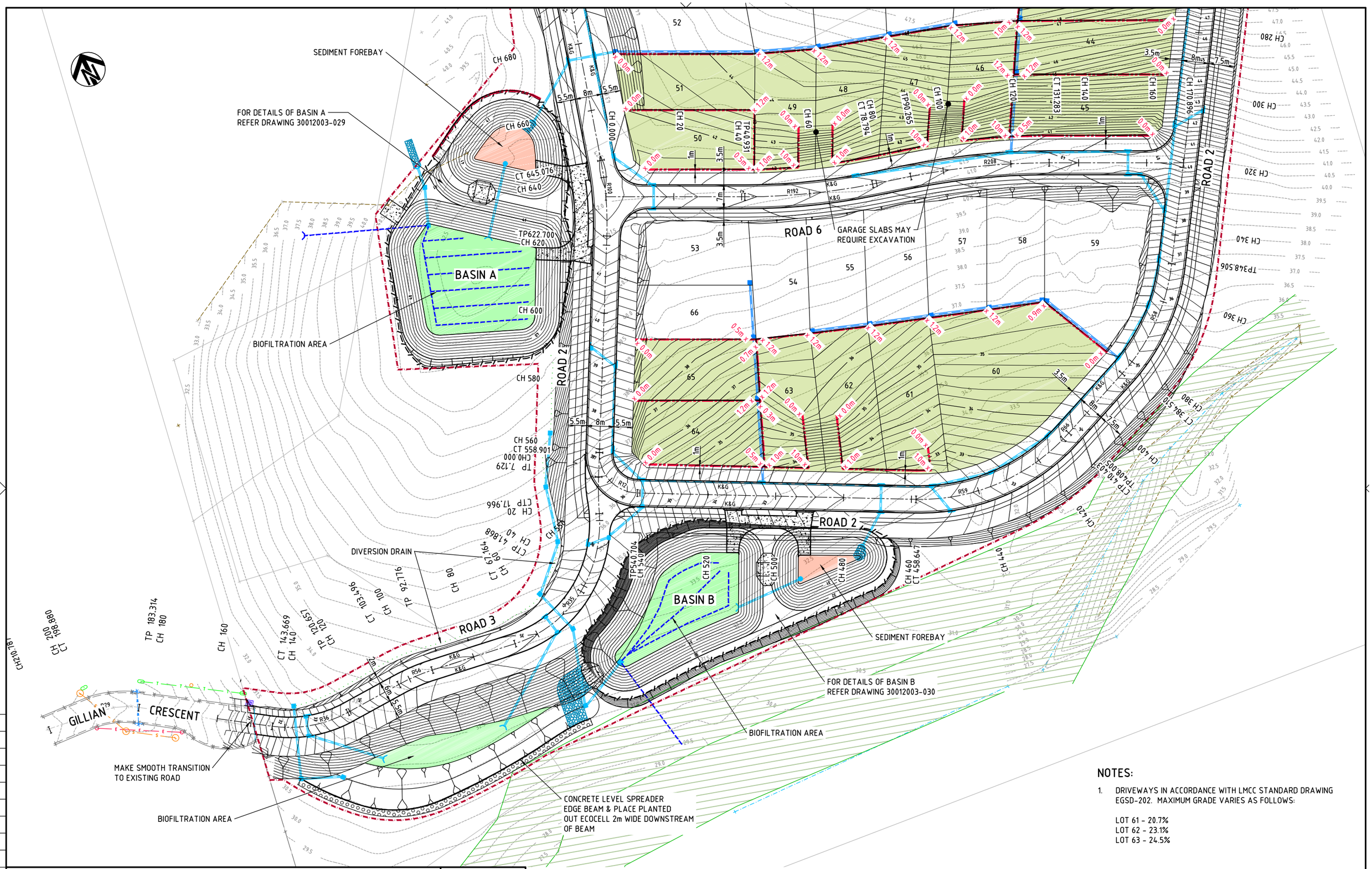

NOTES:

1. DRIVEWAYS IN ACCORDANCE WITH LMCC STANDARD DRAWING EGSD-202. MAXIMUM GRADE VARIES AS FOLLOWS:

   LOT 61 - 20.7%
   LOT 62 - 23.1%
   LOT 63 - 24.5%

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES: X_Nevc_a1_30012003, X_DA_SURV, X_DA_DESIGN

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DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:500 (5 0 10 20)

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SMEC PROJECT No 30012003

CLIENT: Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
GENERAL ARRANGEMENT SHEET 2

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500	PRELIMINARY	30012003-004	04

150 mm ON ORIGINAL
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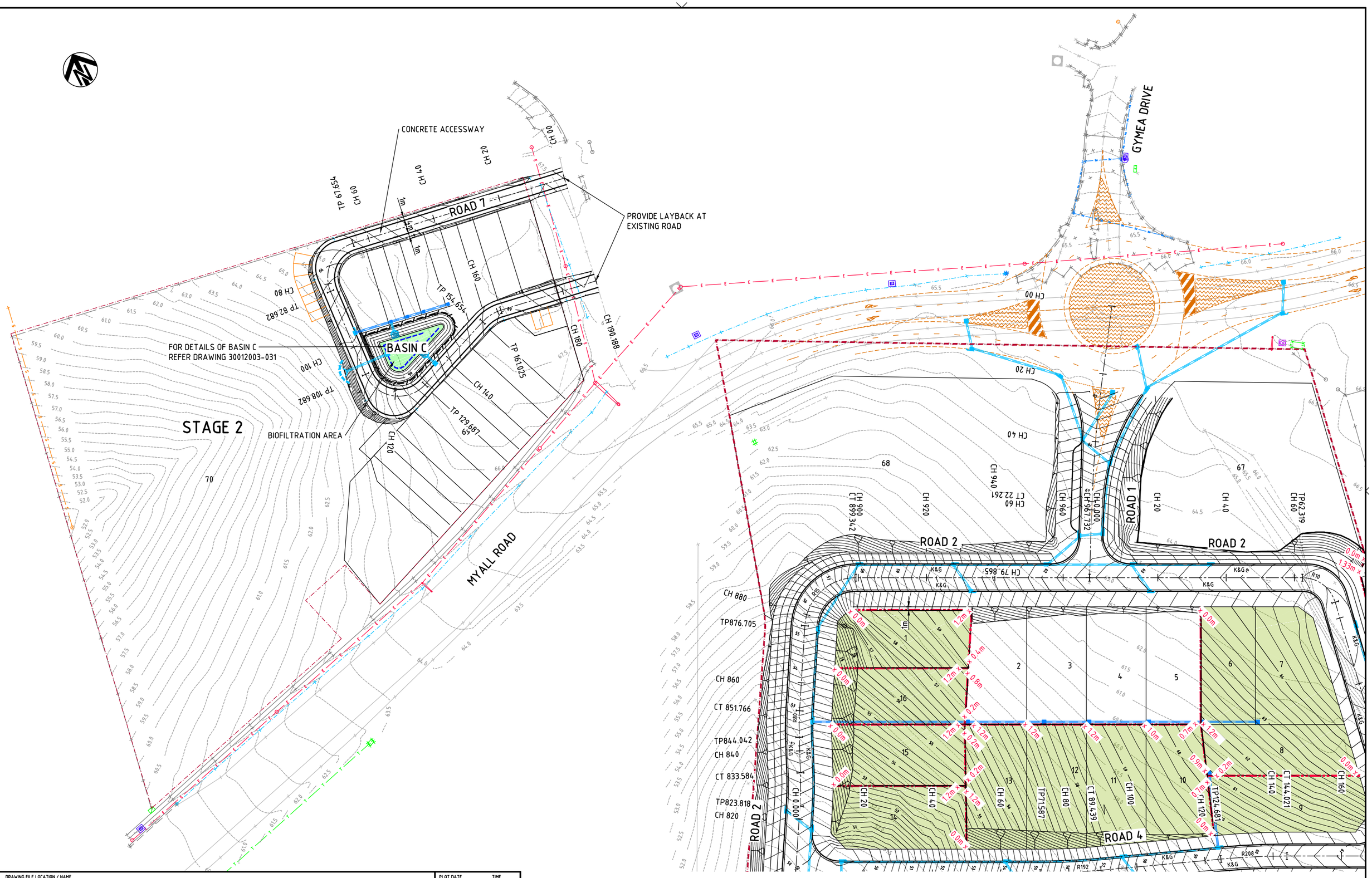

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES

X_Newc_a1_30012003
X_DA_SURV
X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
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DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:500 5 0 10 20

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

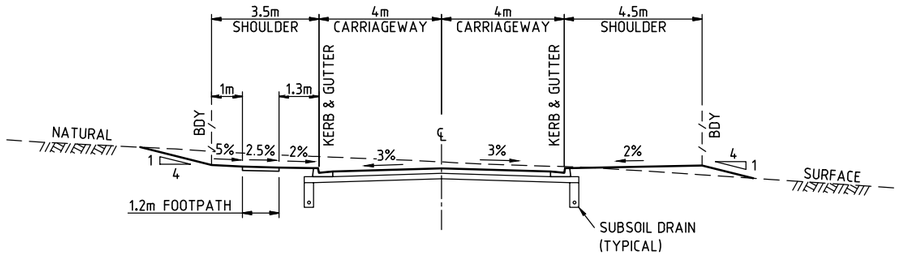
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

GENERAL ARRANGEMENT SHEET 3

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500	PRELIMINARY	30012003-005	04

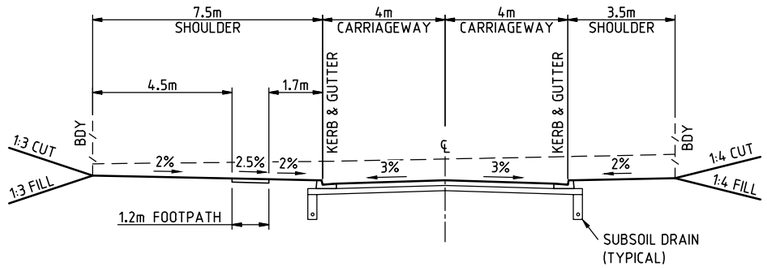
150 mm ON ORIGINAL

A1



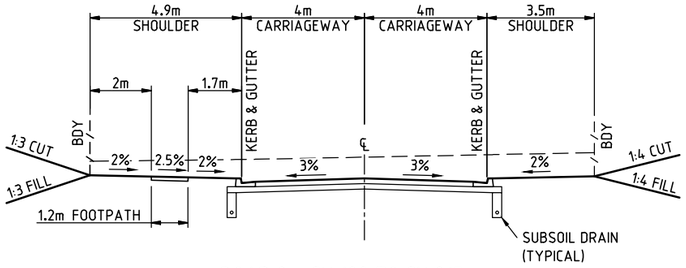
ROAD 2 - CH 00 TO CH 62.319 & CH 899.342 TO CH 967.732

SCALE 1:100



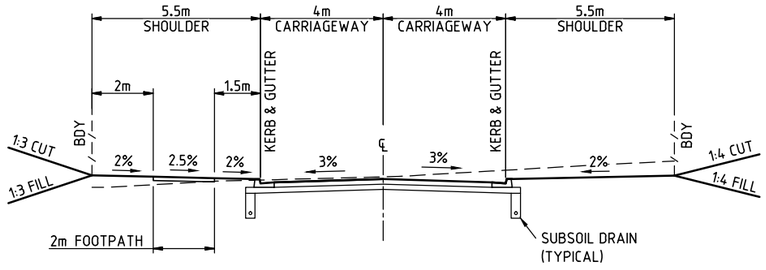
ROAD 2 - CH 62.319 TO CH 120 & CH 215 TO CH 540.704

SCALE 1:100



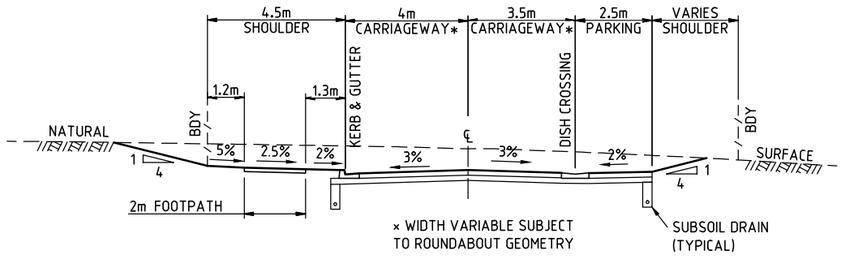
ROAD 2 - CH 120 TO CH 215

SCALE 1:100



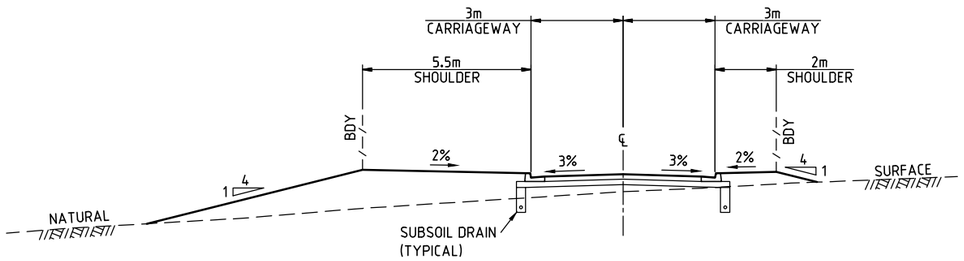
ROAD 2 - CH 540.704 TO CH 899.342

SCALE 1:100



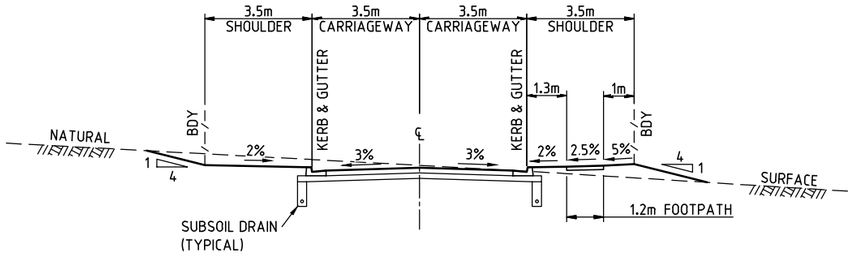
ROAD 1

SCALE 1:100



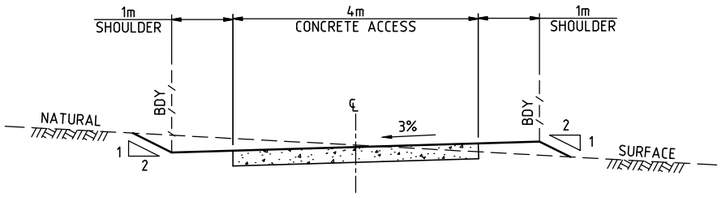
ROAD 3

SCALE 1:100



ROADS 4, 5 & 6

SCALE 1:100



ROAD 7

SCALE 1:50

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-006_[04].dwg	19 May 2014	11:48:31

EXTERNAL REFERENCE FILES: X_Newc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
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DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:50 — 0.5 0 1 2

SCALE 1:100 — 1 0 1 2 3 4 5

DESIGNER

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CLIENT

Urban Growth NSW

PROJECT TITLE

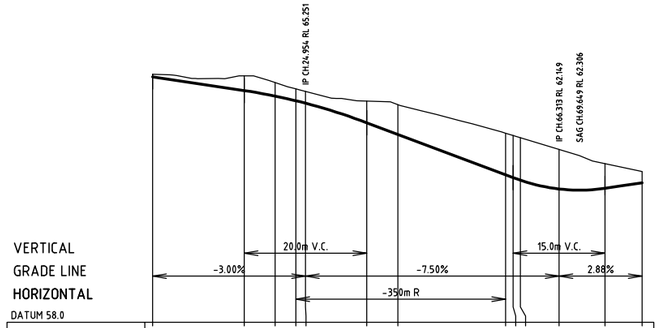
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

TYPICAL SECTIONS & DETAILS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
AS SHOWN	PRELIMINARY	30012003-006	04

150 mm ON ORIGINAL

A1



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EXISTING SURFACE	66.079	66.034	65.809	65.605 65.524	65.207	65.091	64.164 64.091 64.018	63.634	63.167	62.909
CUT / FILL DEPTH	0.079	0.483	0.438	0.386 0.385	0.706	0.968	1.362 1.379 1.391	1.290	0.801	0.369
CHAINAGE	0.000	14.954	20.000	23.386 24.954	34.954	40.000	57.605 58.813 60.000	66.313	73.813	79.865

LONGITUDINAL SECTION - ROAD 1

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100

150 mm ON ORIGINAL

A1 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-007_[04].dwg	19 May 2014	11:48:37

EXTERNAL REFERENCE FILES: X_Newc_a1_30012003

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DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

HORIZ. 1:500 5 0 5 10 15 20 25
VERT. 1:100 1 0 1 2 3 4 5

DESIGNER

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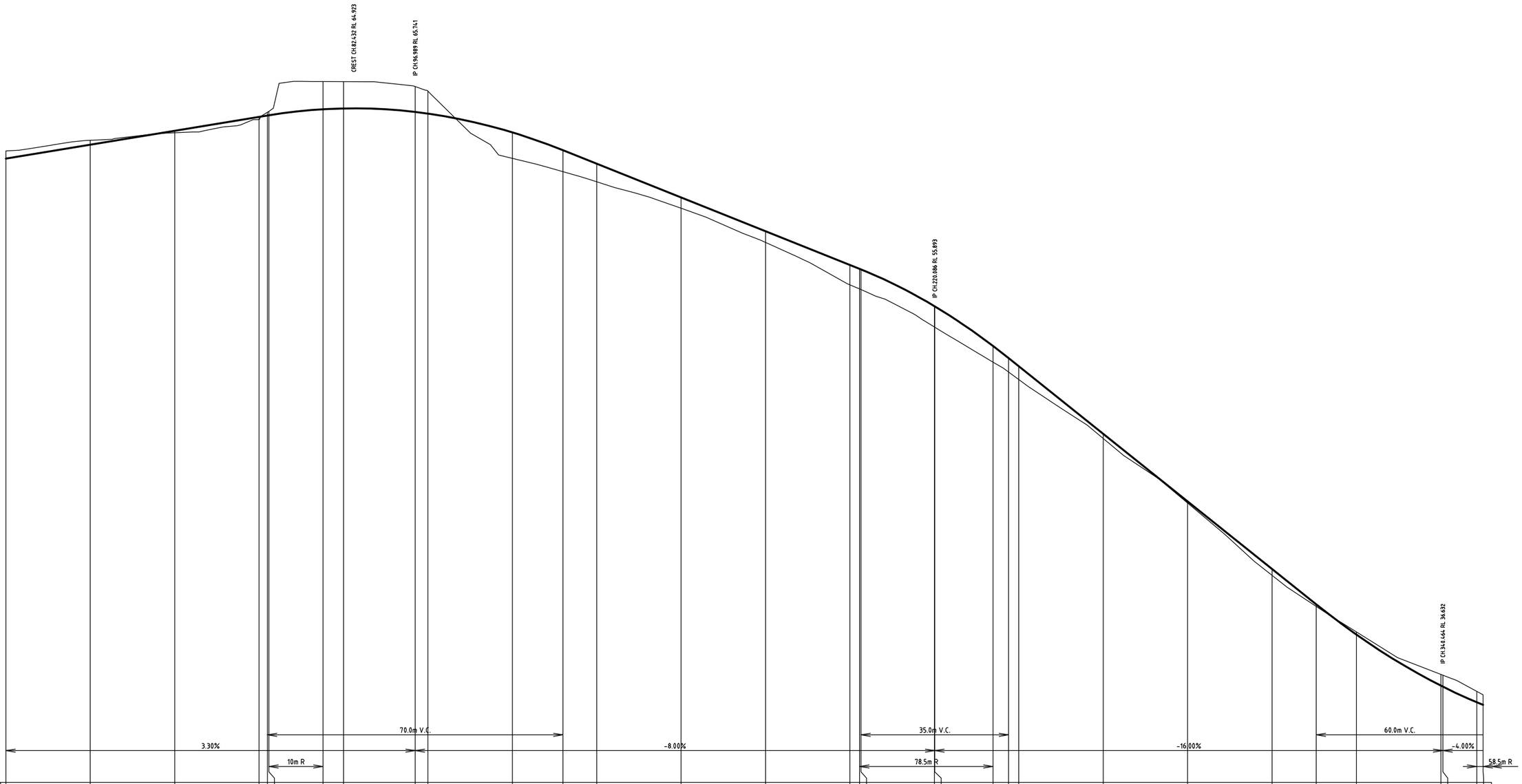
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 1 LONGITUDINAL SECTION

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500H,1:100V	PRELIMINARY	30012003-007	04



VERTICAL
GRADE LINE
HORIZONTAL
DATUM 33.0

CHAINAGE	DESIGN	EXISTING SURFACE	CUT / FILL DEPTH
0.000	62.540	62.909	0.369
20.000	63.200	63.407	0.207
40.000	63.860	63.765	-0.095
60.000	64.520	64.399	-0.121
61.989	64.586	64.740	0.154
62.319	64.596	64.779	0.183
75.167	64.880	66.188	1.308
80.000	64.918	66.186	1.268
96.989	64.752	65.956	1.205
100.000	64.674	65.734	1.061
120.000	63.784	62.554	-1.230
131.989	62.941	61.926	-1.014
140.000	62.300	61.448	-0.852
160.000	60.700	60.196	-0.504
180.000	59.100	58.575	-0.525
200.000	57.500	56.561	-0.939
202.284	57.317	56.367	-0.950
202.586	57.293	56.341	-0.952
220.000	55.553	54.572	-0.982
220.086	55.543	54.561	-0.982
233.909	53.666	52.900	-0.765
237.586	53.093	52.431	-0.662
240.000	52.707	52.077	-0.630
260.000	49.507	49.289	-0.218
280.000	46.307	46.230	-0.077
300.000	43.107	42.809	-0.298
310.464	41.432	41.335	-0.098
320.000	39.998	40.122	0.124
340.000	37.579	38.114	0.535
340.464	37.532	38.078	0.546
348.506	36.793	37.308	0.515
350.000	36.670	37.147	0.477

LONGITUDINAL SECTION - ROAD 2

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100

150 mm ON ORIGINAL

DRAWING FILE LOCATION / NAME
T:\Projects\30012003\CAD\DWG\30012003-008_[04].dwg

PLOT DATE 19 May 2014 TIME 11:48:42

EXTERNAL REFERENCE FILES
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REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING
HORIZ. 1:500 5 0 5 10 15 20 25
VERT. 1:100 1 0 1 2 3 4 5

DESIGNER
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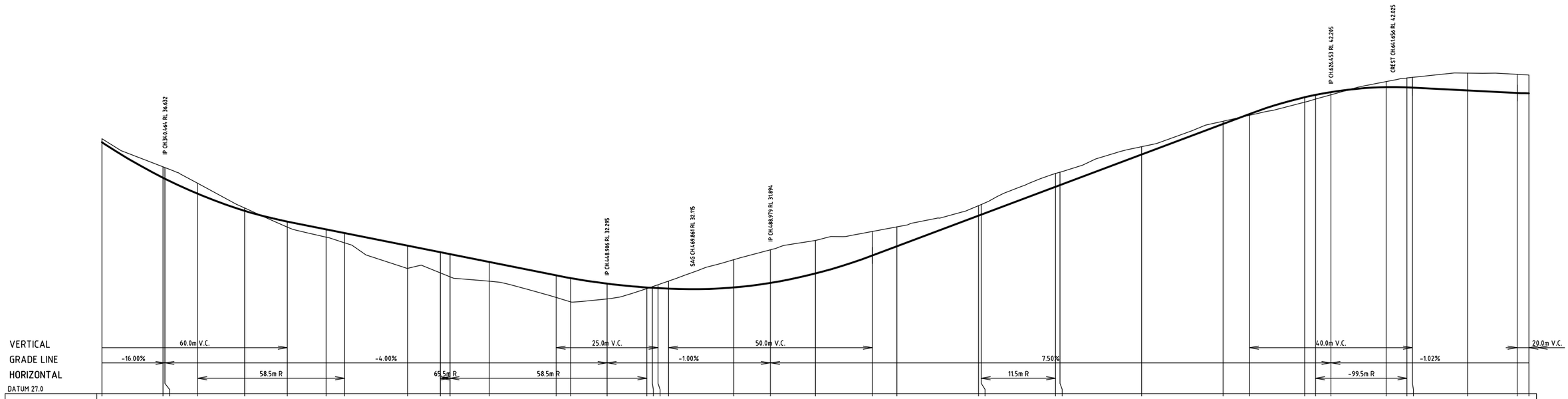
SMEC PROJECT No 30012003

CLIENT
Urban Growth NSW

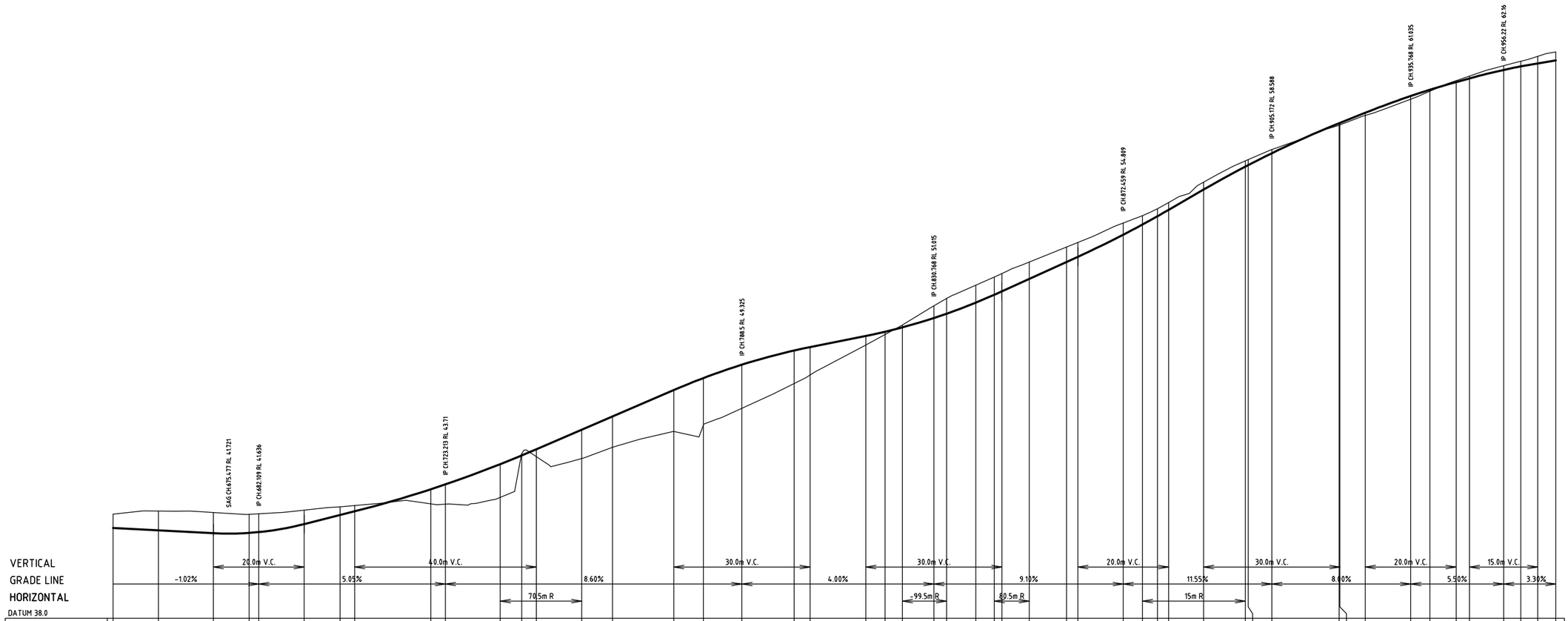
PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 2 LONGITUDINAL SECTION
SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500H,1:100V	PRELIMINARY	30012003-008	04

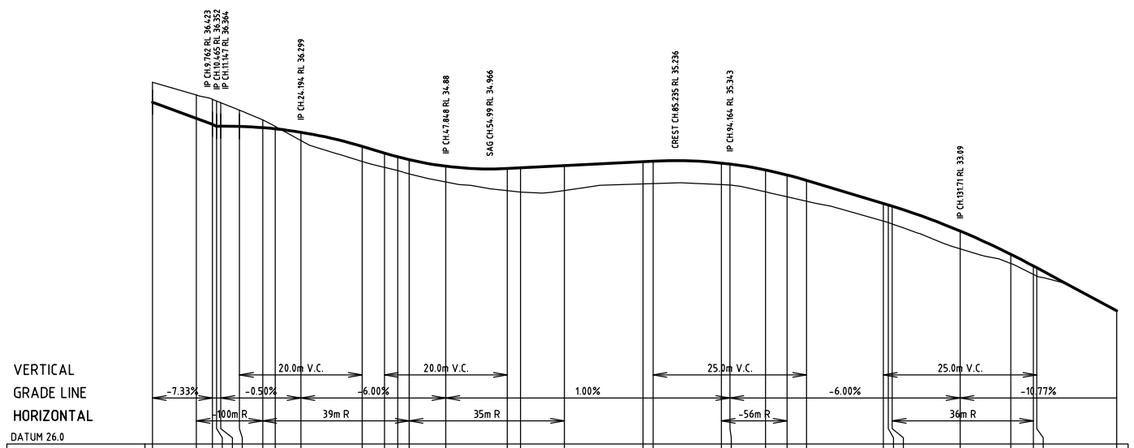
A1


IP CH345.444 RL 36.632
IP CH448.906 RL 32.295
SAG CH469.861 RL 32.115
IP CH488.979 RL 31.894
IP CH626.553 RL 42.295
CREST CH641.656 RL 42.825
VERTICAL
GRADE LINE
HORIZONTAL
DATUM 27.0
60.0m V.C.
25.0m V.C.
50.0m V.C.
40.0m V.C.
20.0m V.C.
-16.00%
-4.00%
-1.00%
7.50%
-1.02%
58.5m R
65.5m R
58.5m R
11.5m R
-99.5m R

| | | |


SAG CH 675.477 RL 41.721
IP CH 682.109 RL 41.636
IP CH 723.213 RL 43.71
IP CH 788.5 RL 49.325
IP CH 836.768 RL 51.015
IP CH 872.459 RL 54.089
IP CH 905.172 RL 58.588
IP CH 935.768 RL 61.635
IP CH 956.22 RL 62.16
VERTICAL
GRADE LINE
HORIZONTAL
DATUM 38.0
20.0m V.C.
40.0m V.C.
30.0m V.C.
30.0m V.C.
20.0m V.C.
30.0m V.C.
20.0m V.C.
15.0m V.C.
-1.02%
5.05%
8.60%
4.00%
9.10%
11.55%
8.00%
5.50%
3.30%
70.5m R
-99.5m R
80.5m R
15m R

| | | |



DESIGN	37.138	36.616	36.423	36.352	36.364	36.349	36.311	36.274	36.162	35.699	35.480	35.359	35.267	35.055	34.980	35.001	35.073	35.201	35.218	35.156	35.124	34.931	34.769	34.593	33.840	33.292	33.151	32.941	32.181	31.802	31.744	30.341
EXISTING SURFACE	37.788	37.375	37.239	37.182	37.128	36.881	36.562	36.334	35.884	35.206	35.012	34.912	34.803	34.530	34.248	34.207	34.258	34.477	34.487	34.456	34.442	34.218	34.059	33.914	33.264	33.219	33.170	32.358	31.880	31.523	31.471	30.342
CUT / FILL DEPTH	0.650	0.759	0.816	0.830	0.764	0.532	0.251	0.080	-0.277	-0.493	-0.467	-0.447	-0.464	-0.524	-0.732	-0.794	-0.815	-0.724	-0.731	-0.700	-0.682	-0.713	-0.710	-0.679	-0.577	-0.574	-0.582	-0.583	-0.300	-0.279	-0.273	0.000
CHAINAGE	0.000	7.129	9.762	10.465	11.147	14.194	17.966	20.000	24.194	34.194	37.848	40.000	41.868	47.848	57.848	60.000	67.164	80.000	81.664	92.776	94.164	100.000	103.496	106.664	119.210	120.000	120.857	131.710	140.000	143.669	144.210	157.235

LONGITUDINAL SECTION - ROAD 3

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100

150 mm ON ORIGINAL

A1

DRAWING FILE LOCATION / NAME
T:\Projects\30012003\CAD\DWG\30012003-011_[04].dwg

PLOT DATE 19 May 2014 TIME 11:48:59

EXTERNAL REFERENCE FILES
X_Newc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING
HORIZ. 1:500 5 0 5 10 15 20 25
VERT. 1:100 1 0 1 2 3 4 5

DESIGNER
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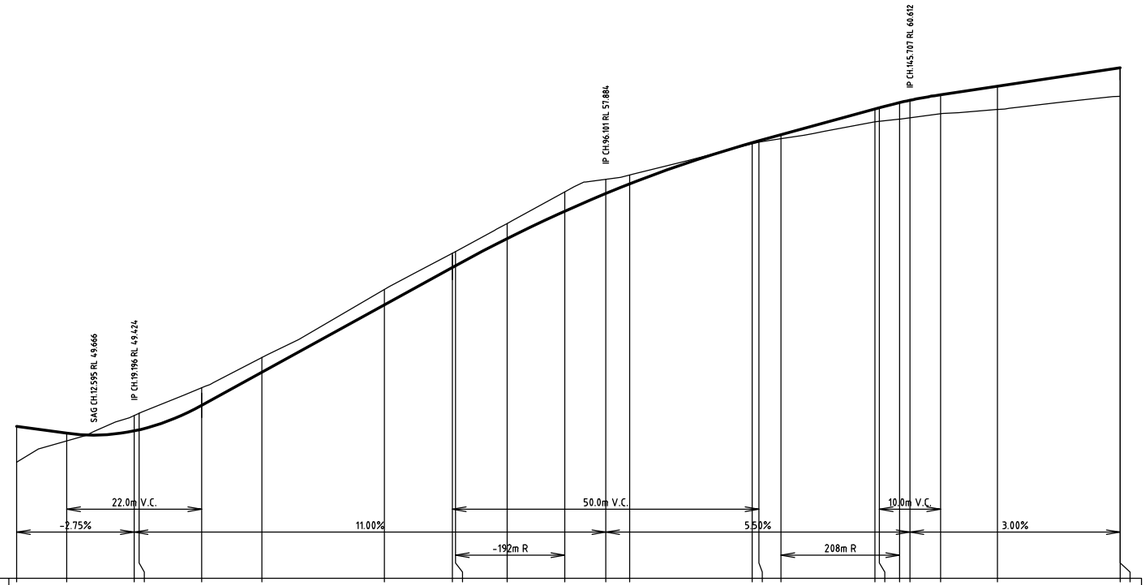
SMEC PROJECT No 30012003

CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 3 LONGITUDINAL SECTION

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500H,1:100V	PRELIMINARY	30012003-011	04



DESIGN	49.952	49.726	49.802 49.837	50.634	51.712	53.912	55.134 55.187	56.069	56.966	57.540	57.853	59.197 59.259	59.455	60.298 60.337	60.505 60.581	60.762	61.041	61.641 61.641
EXISTING SURFACE	48.779	49.477	50.306 50.380	51.209	52.198	54.413	55.598 55.650	56.559	57.595	58.004	58.146	59.162 59.215	59.326	59.877 59.893	59.967 60.011	60.140	60.283	60.707 60.707
CUT / FILL DEPTH	-1.173	-0.249	0.504 0.542	0.575	0.485	0.501	0.465 0.463	0.491	0.629	0.464	0.293	-0.036 -0.044	-0.130	-0.421 -0.444	-0.538 -0.570	-0.622	-0.758	-0.933 -0.934
CHAINAGE	0.000	8.196	19.196 20.000	30.196	40.000	60.000	71.101 71.587	80.000	89.439	96.101	100.000	120.000 121.101	124.681	140.000 140.707	144.021 145.707	150.707	160.000	180.000 180.016

LONGITUDINAL SECTION - ROAD 4

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100

150 mm ON ORIGINAL

A1

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-012_[04].dwg	19 May 2014	11:49:04

EXTERNAL REFERENCE FILES: X_Newc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

HORIZ. 1:500 5 0 5 10 15 20 25
VERT. 1:100 1 0 1 2 3 4 5

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

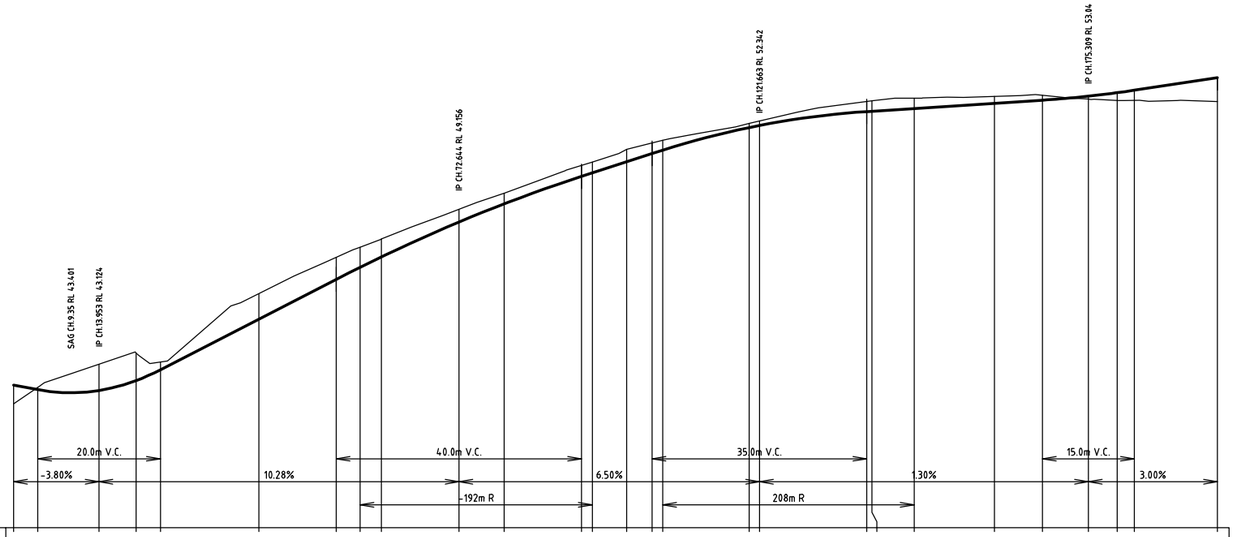
Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 4 LONGITUDINAL SECTION

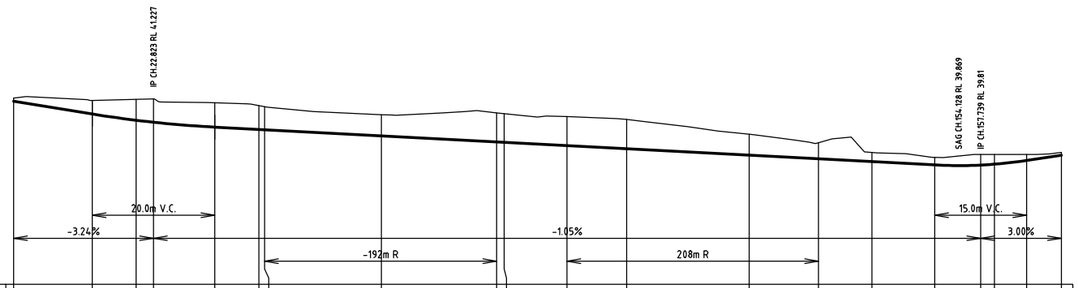
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500H,1:100V	PRELIMINARY	30012003-012	04



DESIGN	43.654	43.504	43.476	43.800	44.152	45.801	47.100	47.493	47.831	48.967	49.559	50.456 50.510	50.934	51.205 51.313	52.018 52.115	52.570 52.581	52.670	52.841	52.942	53.071	53.185	53.265	53.671
EXISTING SURFACE	43.040	43.575	44.332	44.693	44.404	46.634	47.820	48.147	48.414	49.316	49.907	50.813 50.924	51.338	51.547 51.633	52.186 52.206	52.905 52.924	53.006	53.061	53.101	52.976	52.934	52.934	52.892
CUT / FILL DEPTH	-0.614	0.071	0.856	0.893	0.252	0.833	0.720	0.654	0.583	0.409	0.348	0.357 0.394	0.404	0.343 0.319	0.138 0.151	0.335 0.344	0.336	0.221	0.159	-0.096	-0.250	-0.331	-0.719
CHAINAGE	-0.000	3.953	13.953	20.000	23.953	40.000	52.644	56.534	60.000	72.644	80.000	92.644 94.397	100.000	104.163 105.868	120.000 121.663	139.163 140.000	146.886	160.000	167.809	175.369	180.000	182.809	196.363

LONGITUDINAL SECTION - ROAD 5

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100



DESIGN	41.966	41.551	41.347	41.282	41.122	41.047 41.037	40.837	40.639 40.627	40.519	40.416	40.206	40.088	39.996	39.889	39.886 39.915	40.035	40.205
EXISTING SURFACE	42.070	41.993	42.027	42.042	41.916	41.823 41.787	41.524	41.508 41.503	41.470	41.375	40.895	40.614	40.297	40.137	40.233 40.231	40.229	40.303
CUT / FILL DEPTH	0.103	0.442	0.681	0.760	0.794	0.777 0.751	0.687	0.849 0.936	0.951	0.958	0.689	0.526	0.300	0.248	0.347 0.316	0.194	0.098
CHAINAGE	0.000	12.823	20.000	22.823	32.823	40.000 40.931	60.000	78.794 80.000	90.265	100.000	120.000	131.283	140.000	150.239	157.739 160.000	165.239	170.896

LONGITUDINAL SECTION - ROAD 6

SCALE HORIZONTAL 1:500
SCALE VERTICAL 1:100

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-013_[04].dwg	19 May 2014	11:49:10

EXTERNAL REFERENCE FILES: X_New_at_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

HORIZ. 1:500 5 0 5 10 15 20 25
VERT. 1:100 1 0 1 2 3 4 5

DESIGNER
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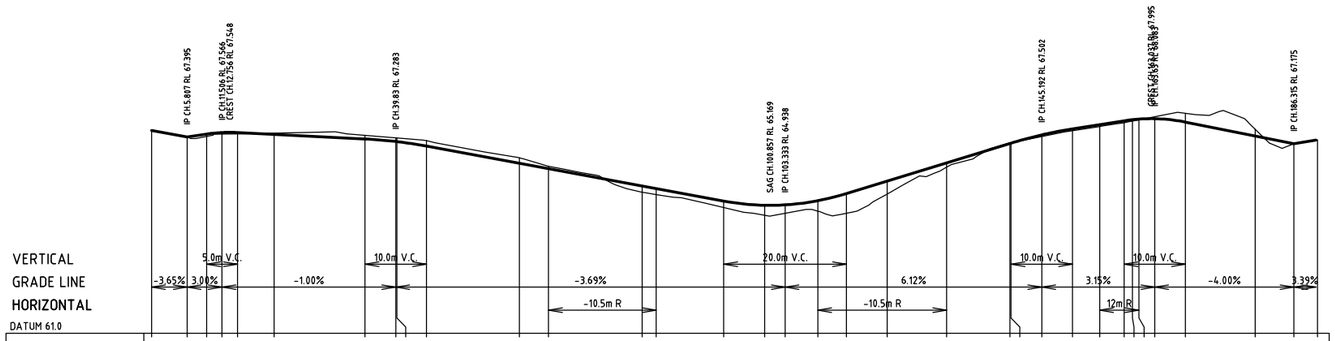
SMEC PROJECT No 30012003

CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 5 & ROAD 6
LONGITUDINAL SECTIONS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:500H,1:100V	PRELIMINARY	30012003-013	04

150 mm ON ORIGINAL
A1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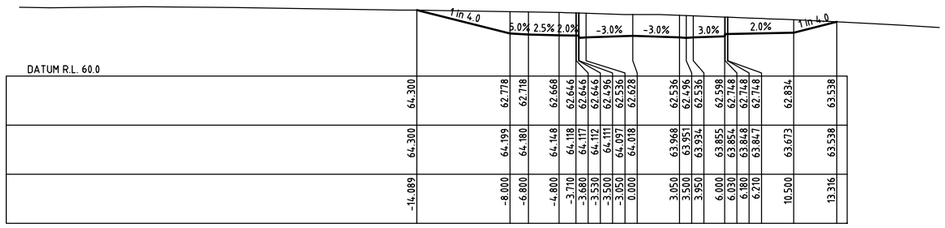
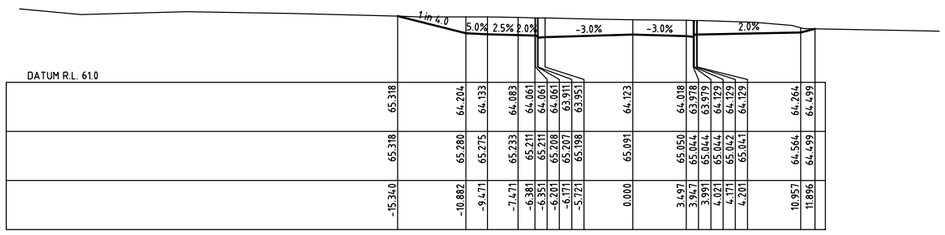
IP CH 11.506 RL 67.546
CREST CH 12.756 RL 67.548
IP CH 39.83 RL 67.283
SAG CH 100.857 RL 65.169
IP CH 103.333 RL 64.938
IP CH 145.192 RL 67.502
CREST CH 149.630 RL 67.995
IP CH 186.315 RL 67.175
VERTICAL
GRADE LINE
HORIZONTAL
DATUM 61.0
5.0m V.C.
10.0m V.C.
20.0m V.C.
10.0m V.C.
10.0m V.C.
-3.65%
3.00%
-1.00%
-3.69%
6.12%
3.15%
-4.00%
3.39%
-10.5m R
-10.5m R
12m R

| | | |



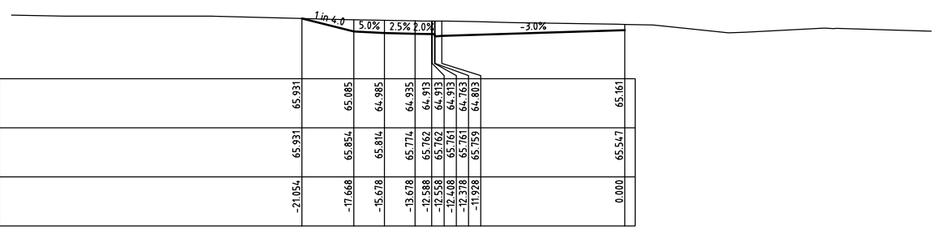
64.300	62.778	62.718	62.668	62.646	62.646	62.646	62.646	62.496	62.536	62.628	62.536	62.496	62.536	62.598	62.748	62.748	62.748	62.834	63.538
64.300	64.199	64.180	64.148	64.118	64.117	64.117	64.117	64.111	64.097	64.018	63.968	63.951	63.934	63.855	63.854	63.848	63.847	63.673	63.538
-14.089	-8.000	-6.800	-4.800	-3.710	-3.680	-3.530	-3.520	-3.500	-3.050	0.000	3.050	3.500	3.950	6.000	6.030	6.180	6.210	10.500	13.316

CH 60.000



65.318	64.204	64.133	64.083	64.061	64.061	64.061	64.061	63.911	63.951	64.123	64.018	63.978	63.979	64.129	64.129	64.129	64.129	64.264	64.499
65.318	65.280	65.275	65.233	65.211	65.211	65.208	65.207	65.207	65.198	65.091	65.050	65.044	65.044	65.044	65.042	65.042	65.041	64.564	64.499
-15.340	-10.882	-9.471	-7.471	-6.381	-6.351	-6.201	-6.171	-5.721	-5.721	0.000	3.497	3.947	3.991	4.021	4.171	4.201	4.201	10.957	11.896

CH 40.000



DESIGN	65.931	65.085	64.985	64.935	64.913	64.913	64.913	64.763	64.803	65.161
EXISTING	65.931	65.854	65.814	65.774	65.762	65.762	65.761	65.761	65.759	65.547
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CH 24.526

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES: X_Newc_c1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
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04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 (2 0 2 4 6 8 10)

DESIGNER

SMEC

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SMEC PROJECT No 30012003

CLIENT

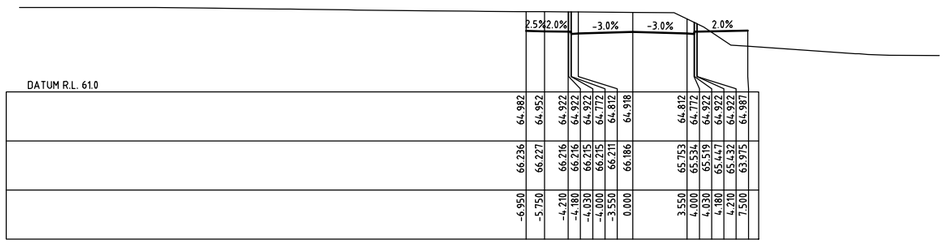
Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 1 CROSS SECTIONS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-015	04

A1 150 mm ON ORIGINAL


2.5%
2.0%
-3.0%
-3.0%
2.0%
DATUM R.L. 61.0

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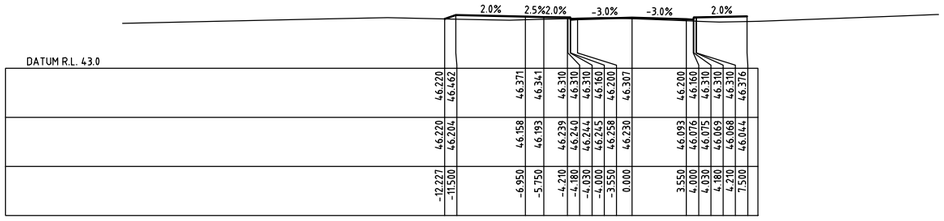
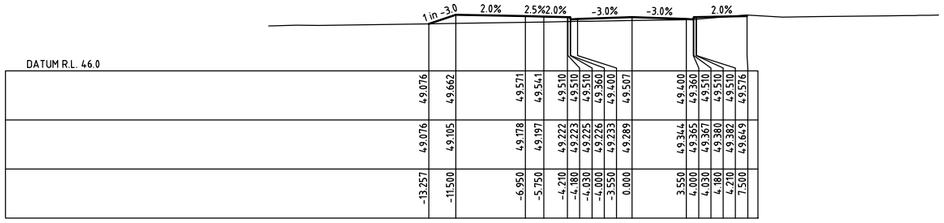
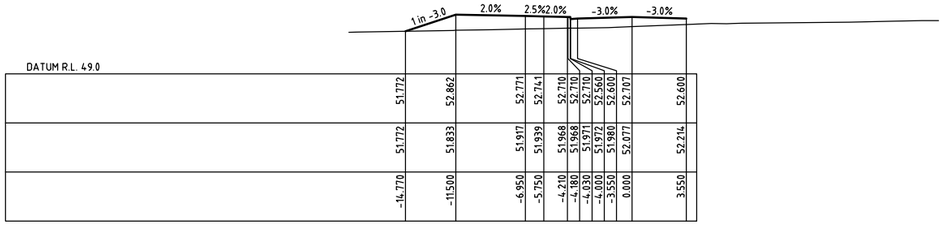


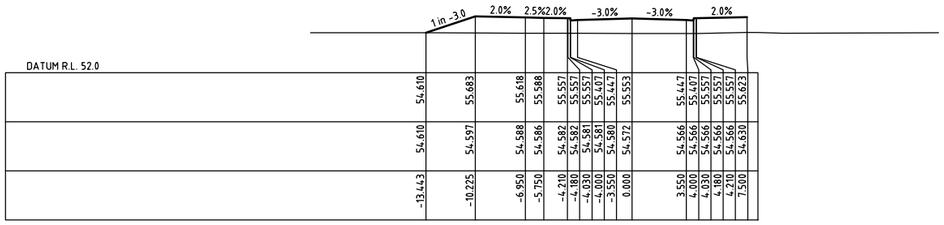
CH 280.000



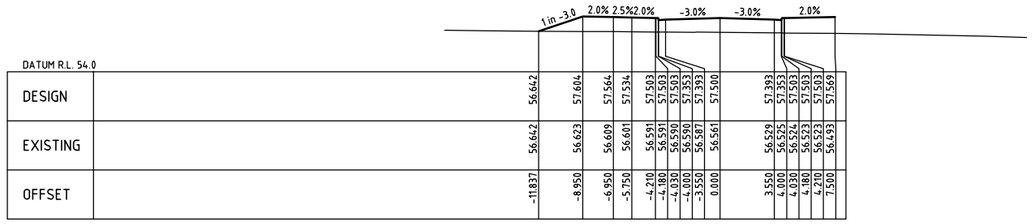
CH 260.000



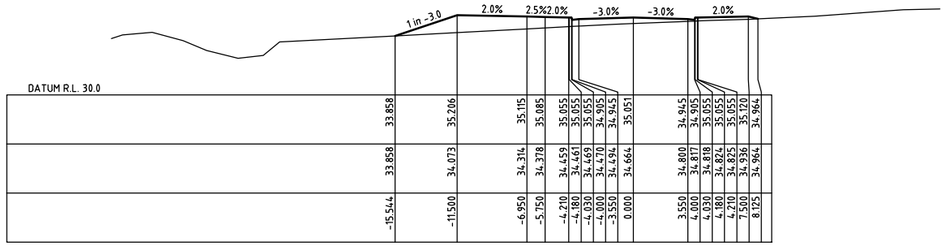
CH 240.000



CH 220.000



CH 200.000



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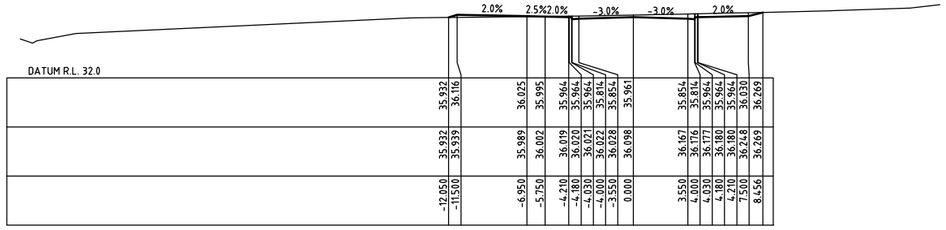

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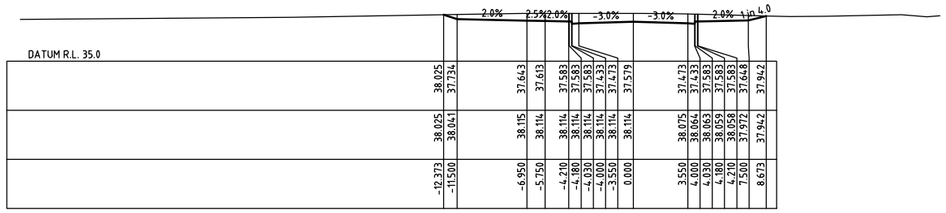

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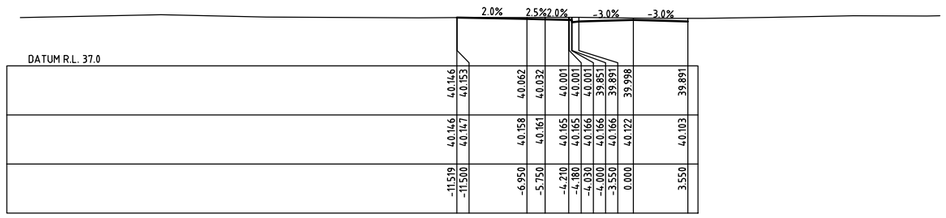

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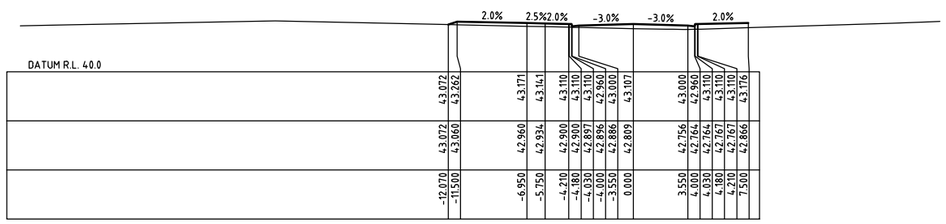

CH 300.000

150 mm ON ORIGINAL

A1

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PLOT DATE 19 May 2014 TIME 11:49:33

EXTERNAL REFERENCE FILES
X_Newz_a1_30012003

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01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

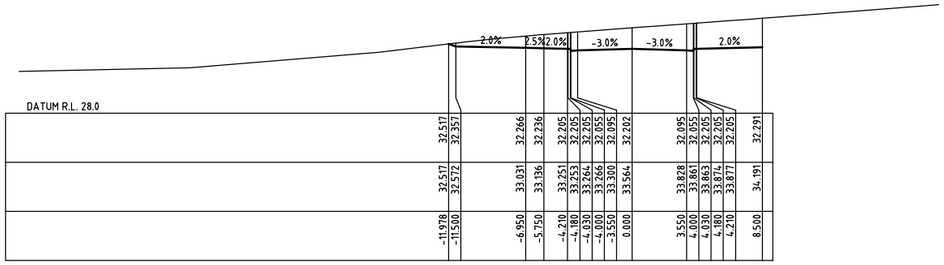
SCALES AT A1 SIZE DRAWING
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
74 HUNTER STREET
NEWCASTLE NSW 2300
PH +61 2 4925 9600 FAX +61 2 4925 3888
SMEC PROJECT No 30012003

CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 2 CROSS SECTIONS
SHEET 2

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-017	04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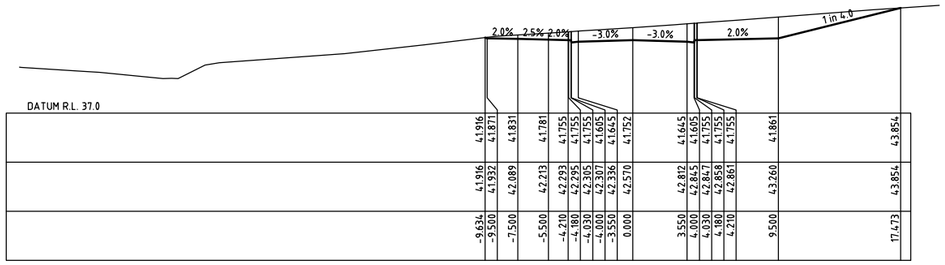

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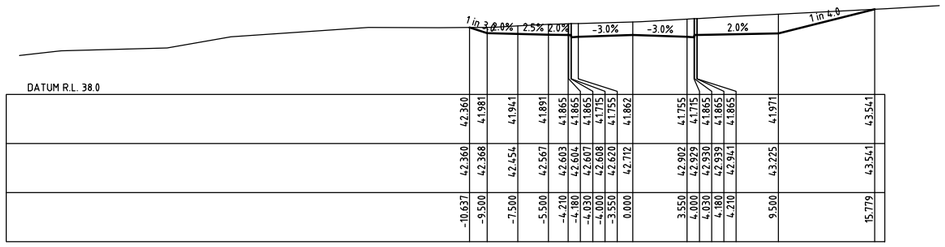

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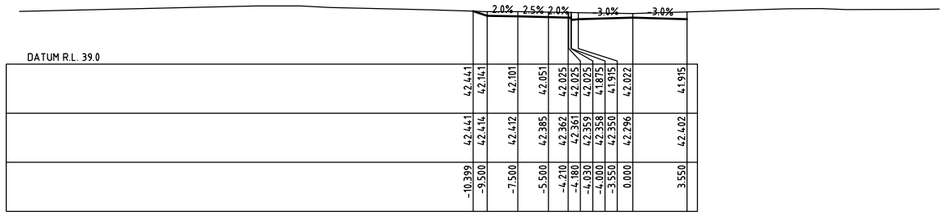

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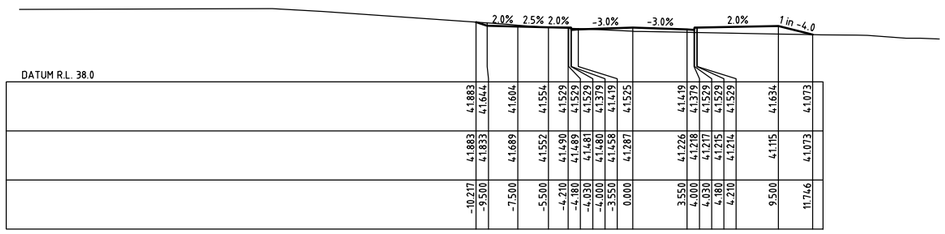

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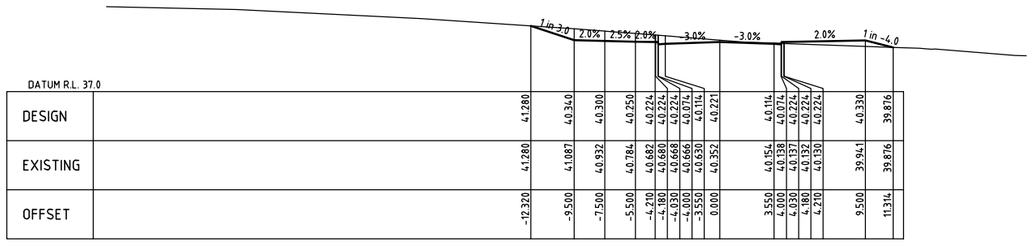

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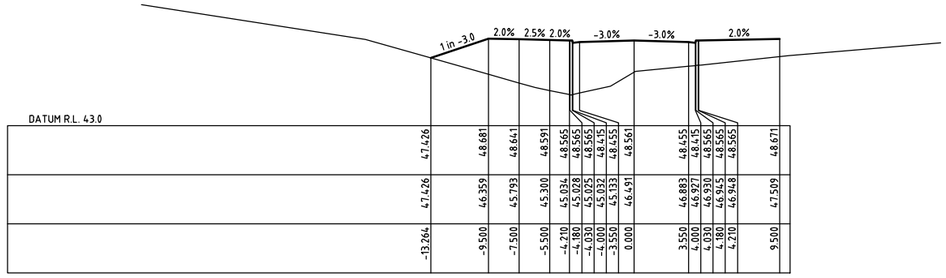

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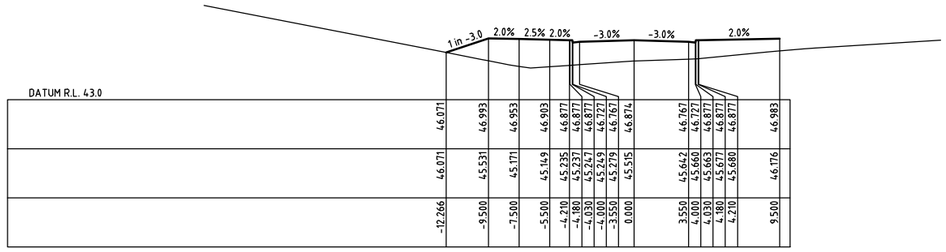

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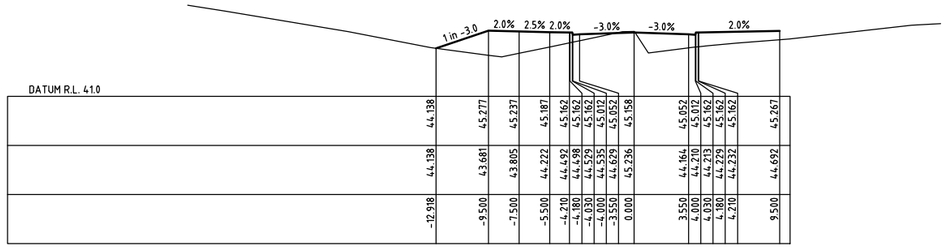

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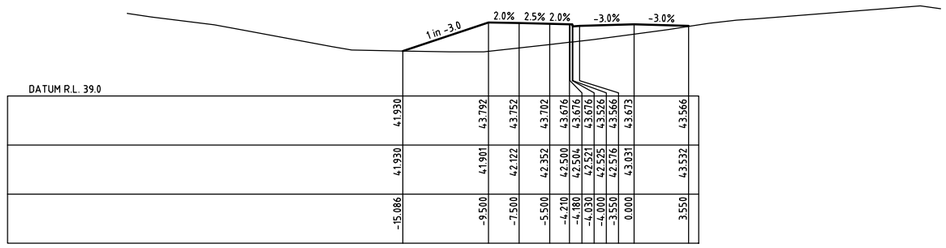

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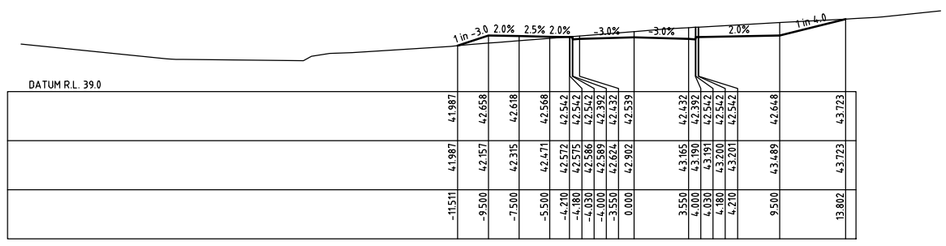

CH 700.000

150 mm ON ORIGINAL

A1

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T:\Projects\30012003\CAD\DWG\30012003-019_[04].dwg	19 May 2014	11:49:45

EXTERNAL REFERENCE FILES: X_Nevrc_01_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

SMEC

SMEC AUSTRALIA PTY LTD
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74 HUNTER STREET
NEWCASTLE NSW 2300
PH +61 2 4925 9600 FAX +61 2 4925 3888

SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 2 CROSS SECTIONS SHEET 4

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
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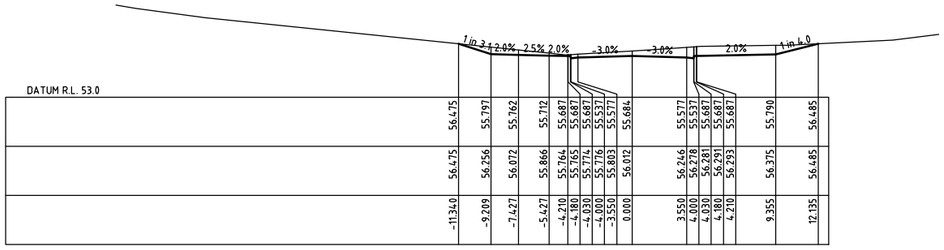

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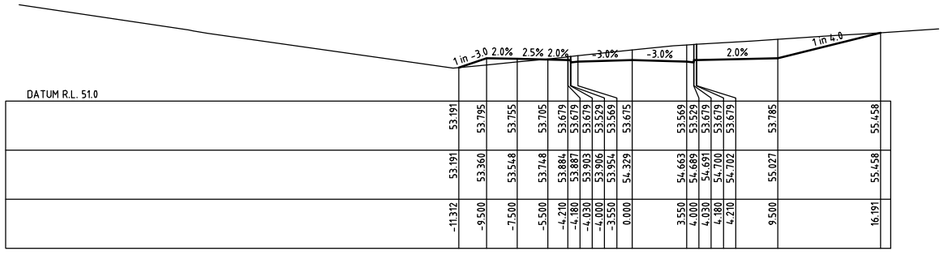

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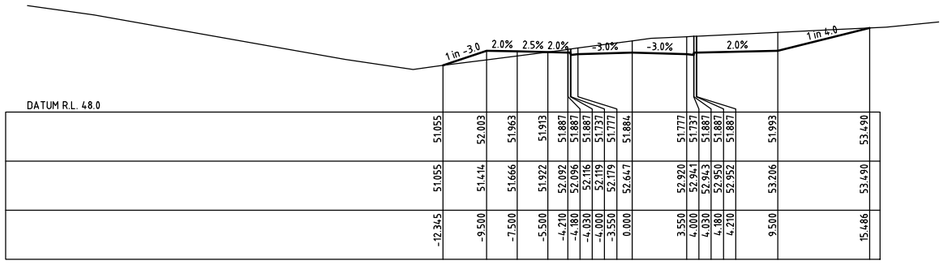

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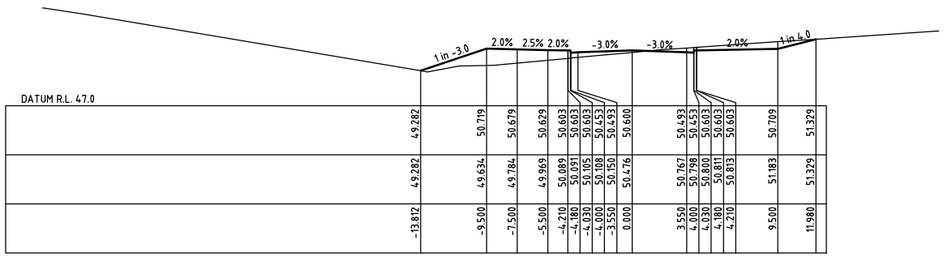

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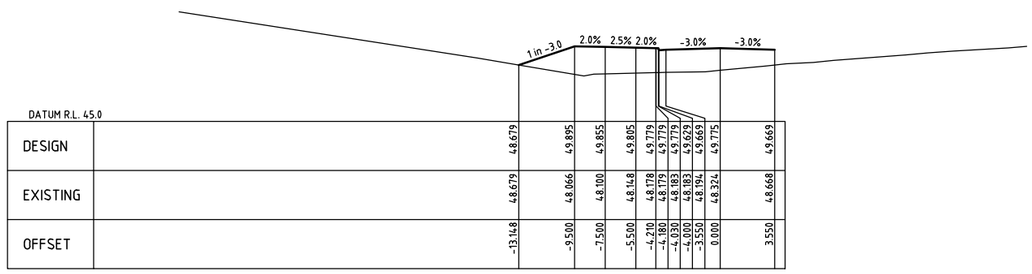

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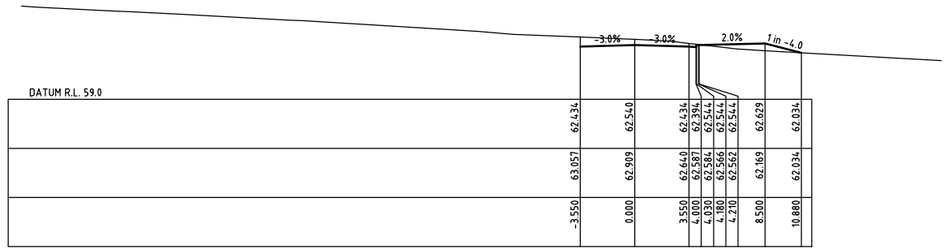

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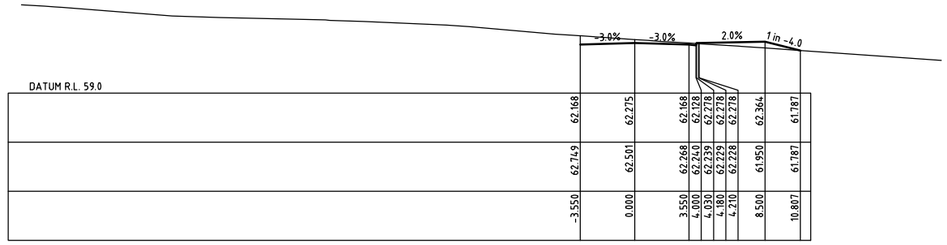

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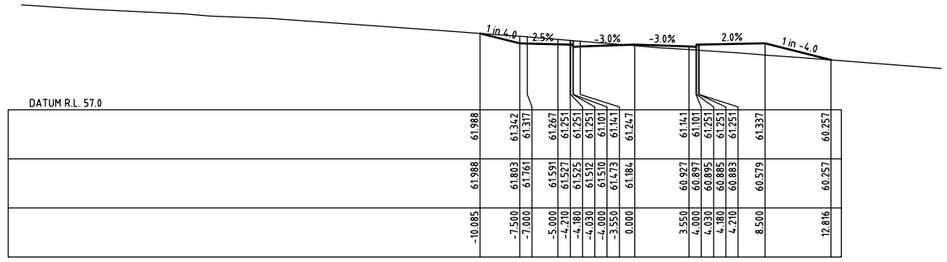

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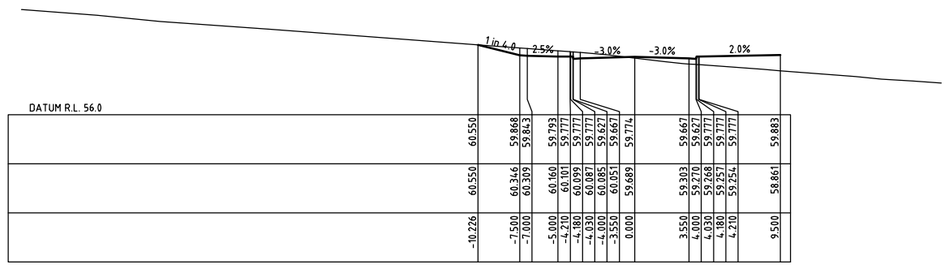

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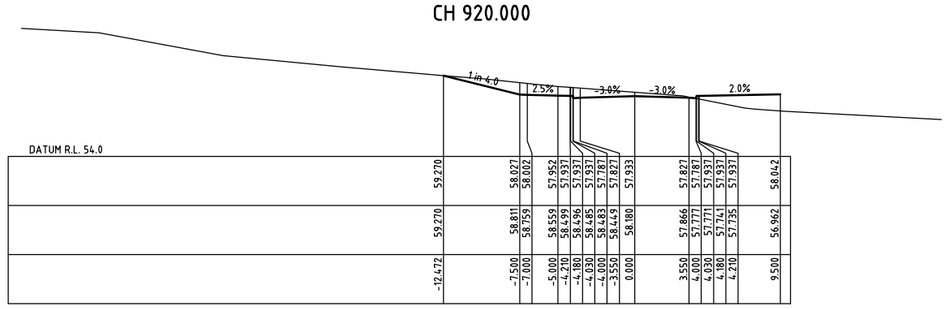

CH 900.000

150 mm ON ORIGINAL

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X_Newc_a1_30012003

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PLOT DATE 19 May 2014 TIME 11:49:51

EXTERNAL REFERENCE FILES

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01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

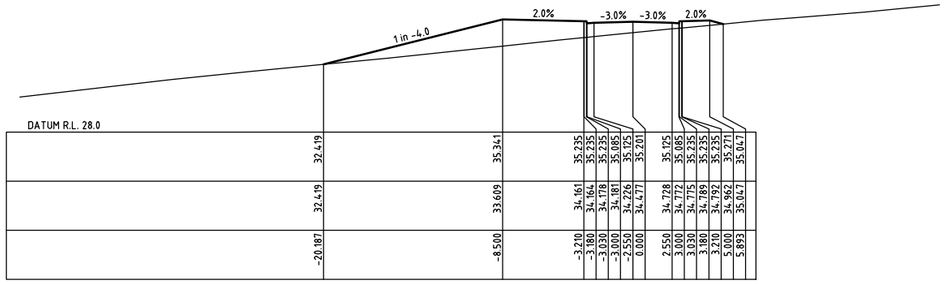
SCALE 1:200 2 0 2 4 6 8 10

DESIGNER
SMEC
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
74 HUNTER STREET
NEWCASTLE NSW 2300
PH +61 2 4925 9600 FAX +61 2 4925 3888
SMEC PROJECT No 30012003

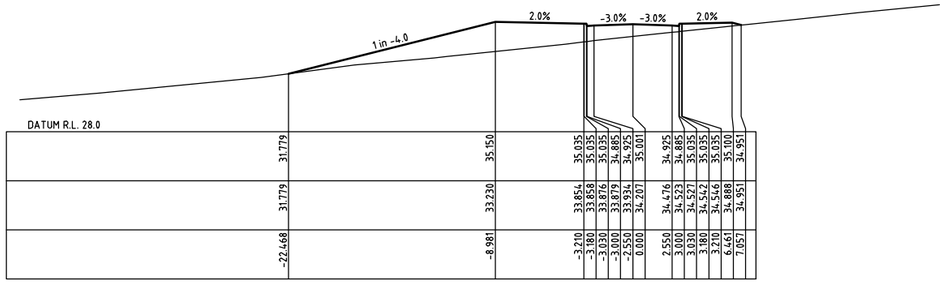
CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 2 CROSS SECTIONS
SHEET 5

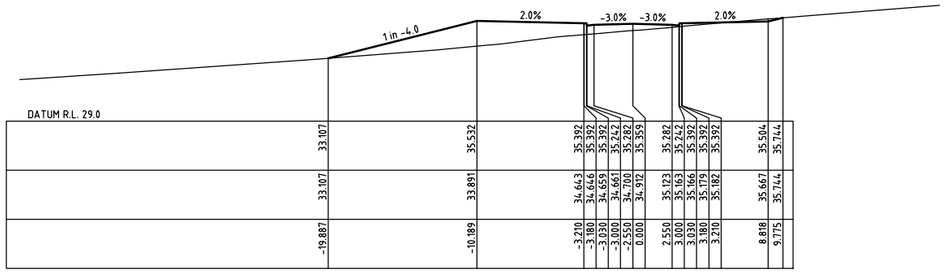
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-020	04



CH 80.000



CH 60.000



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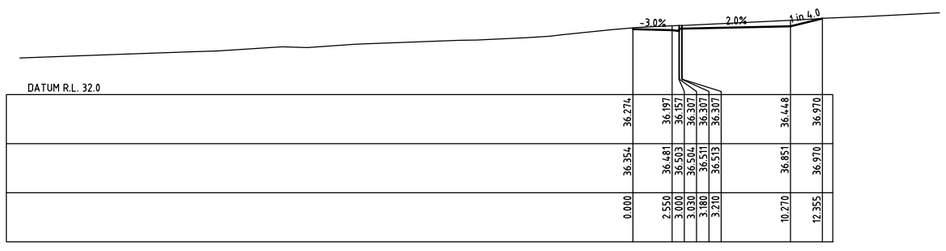

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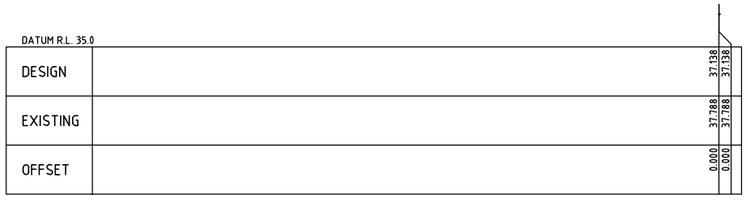
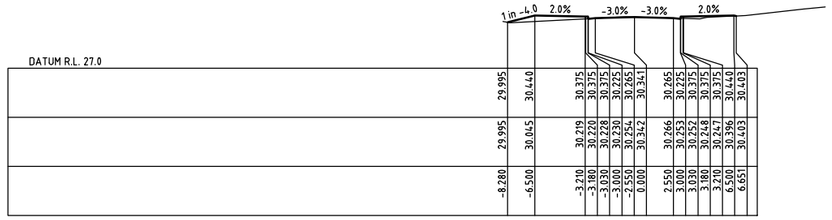
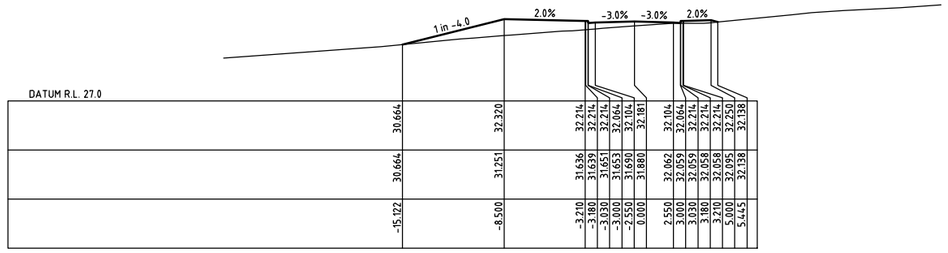


CH 0.000



CH 157.236



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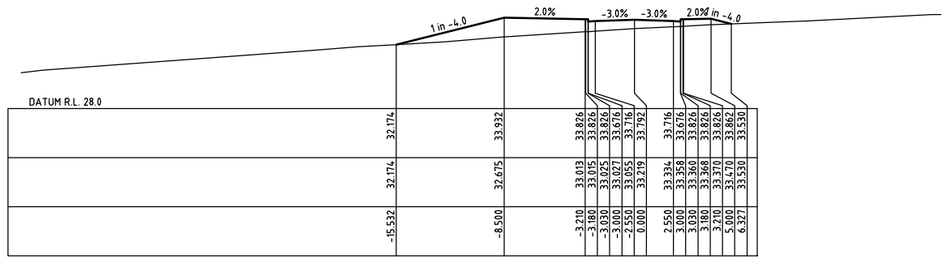
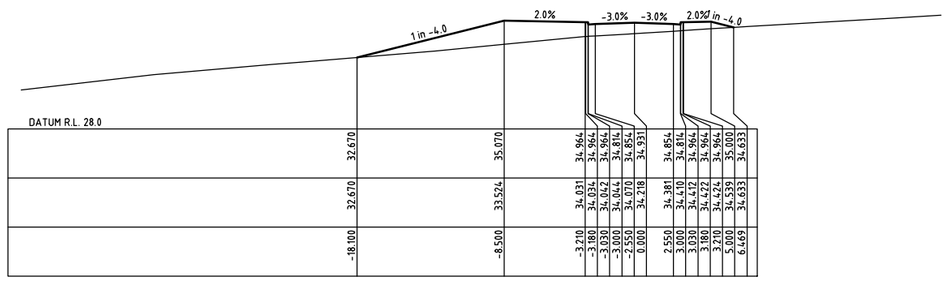


CH 120.000



CH 100.000

150 mm ON ORIGINAL

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T:\Projects\30012003\CAD\DWG\30012003-021_[04].dwg	19 May 2014	11:49:57

EXTERNAL REFERENCE FILES: X_Newc_at_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

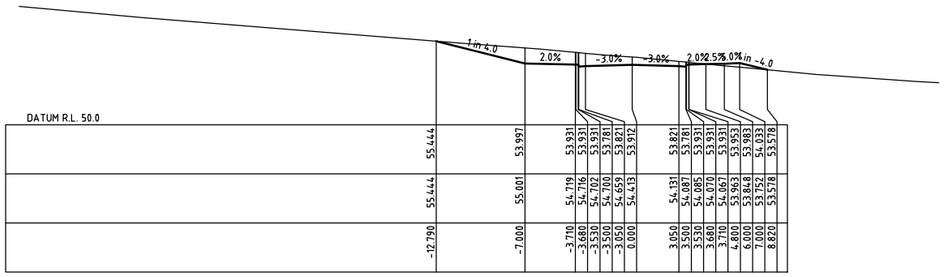
SCALE 1:200 — 2 0 2 4 6 8 10

DESIGNER
SMEC
SMEC AUSTRALIA PTY LTD
© ABN 47 065 475 149
74 HUNTER STREET
NEWCASTLE NSW 2300
PH +61 2 4925 9600 FAX +61 2 4925 3888
SMEC PROJECT No 30012003

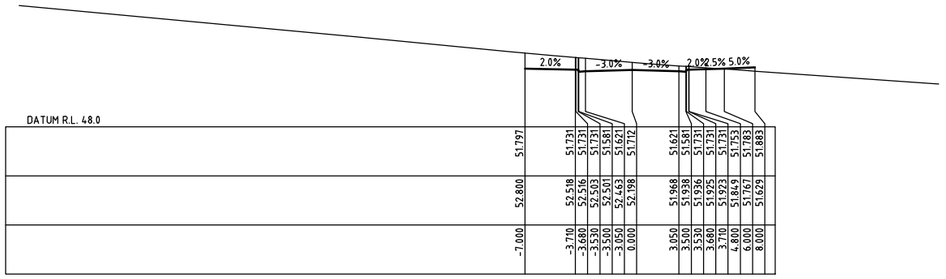
CLIENT
Urban Growth NSW

PROJECT TITLE
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 3 CROSS SECTIONS

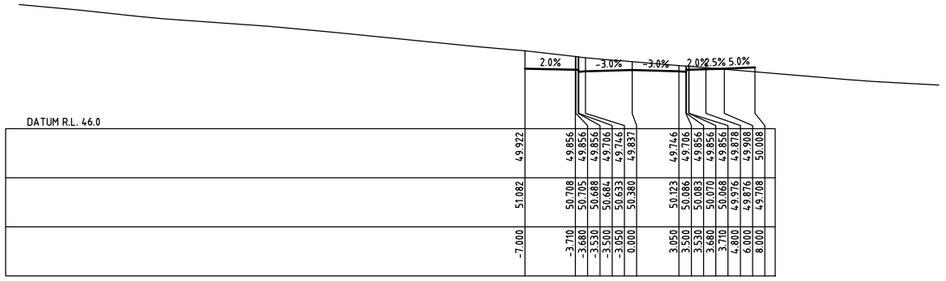
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-021	04



CH 60.000



CH 40.000



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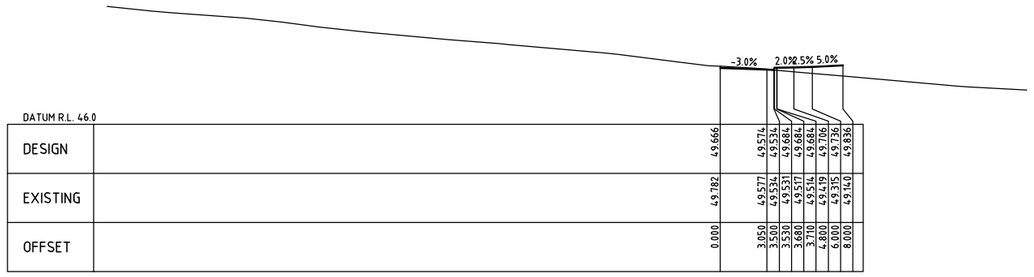
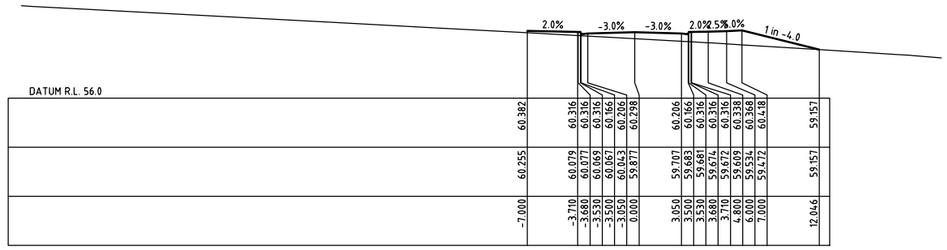
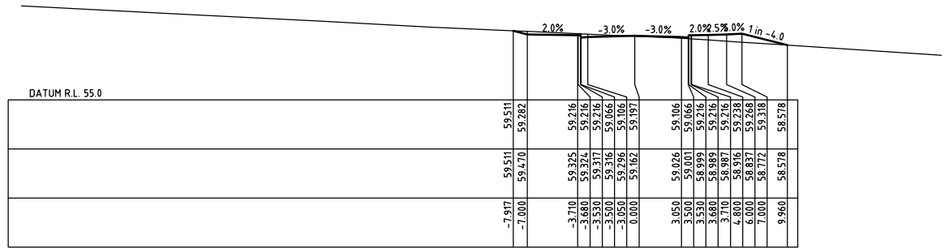


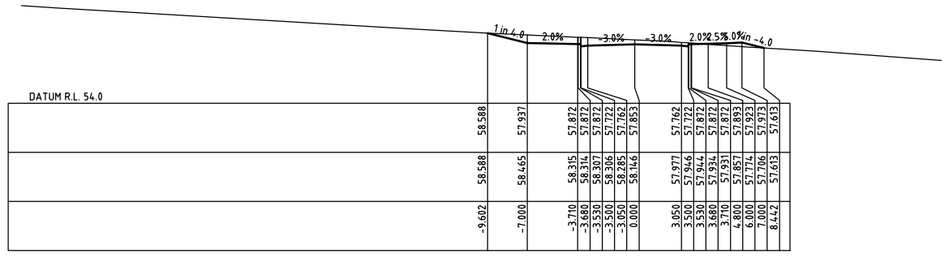
CH 12.595



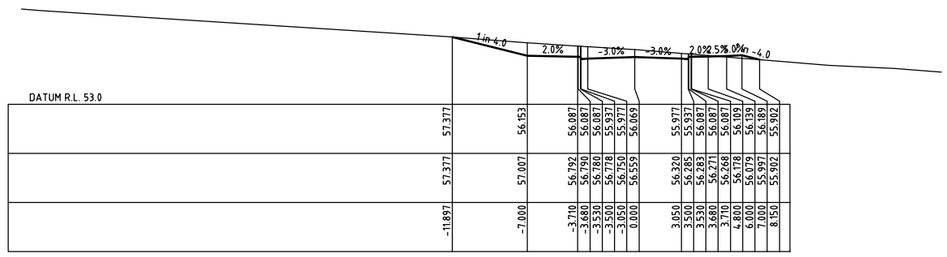
CH 140.000



CH 120.000



CH 100.000



CH 80.000

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-022_[04].dwg	19 May 2014	11:50:03

EXTERNAL REFERENCE FILES: X_Newc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 — 2 0 2 4 6 8 10

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 4 CROSS SECTIONS SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-022	04

150 mm ON ORIGINAL

A1

DATUM R.L. 56.0

DESIGN	61.125	61.059	61.059	61.059	60.909	60.945	61.041	60.949	60.909	61.055	61.055	61.059	61.081	61.111	61.211
EXISTING	60.659	60.467	60.466	60.458	60.457	60.435	60.283	60.079	60.049	60.048	60.039	60.037	59.970	59.898	59.776
OFFSET	-7.000	-3.710	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	3.710	4.800	6.000	8.000

CH 160.000

150 mm ON ORIGINAL

A1

X_News_a1_30012003

DRAWING FILE LOCATION / NAME
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PLOT DATE 19 May 2014 TIME 11:50:09

EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

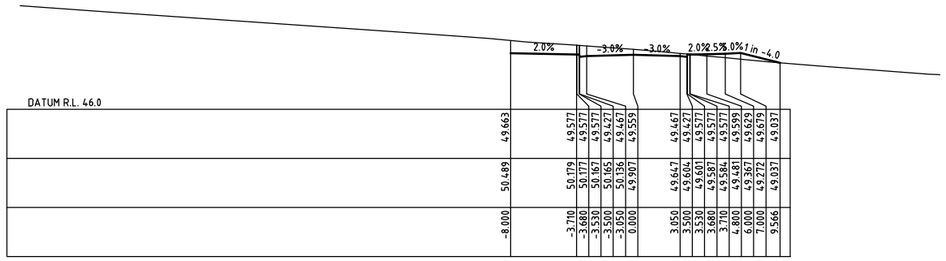
Urban Growth NSW

PROJECT TITLE

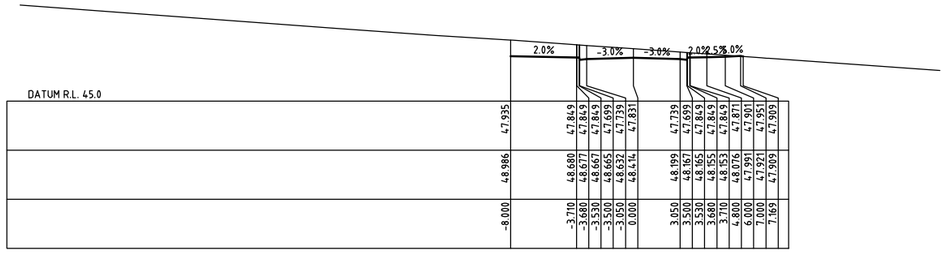
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 4 CROSS SECTIONS SHEET 2

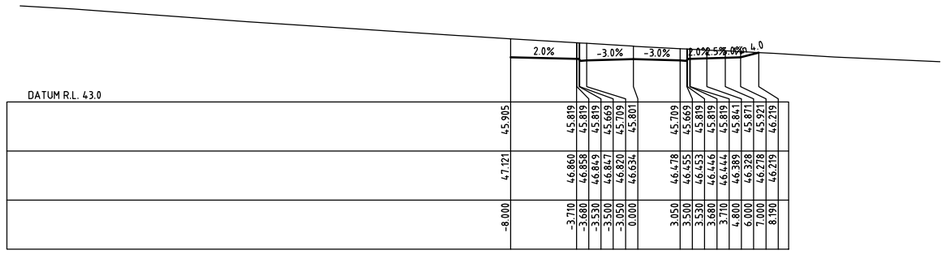
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-023	04



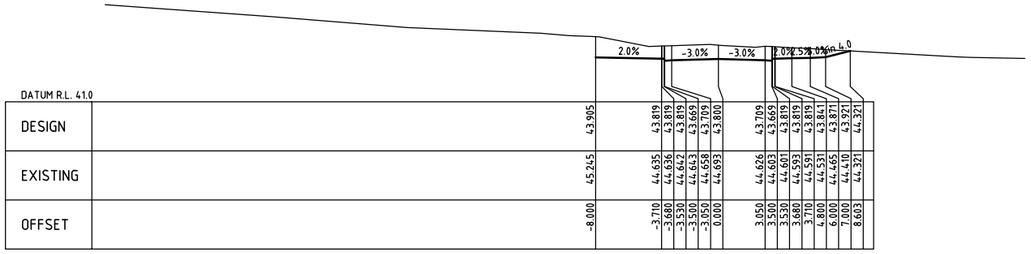
CH 80.000



CH 60.000



CH 40.000



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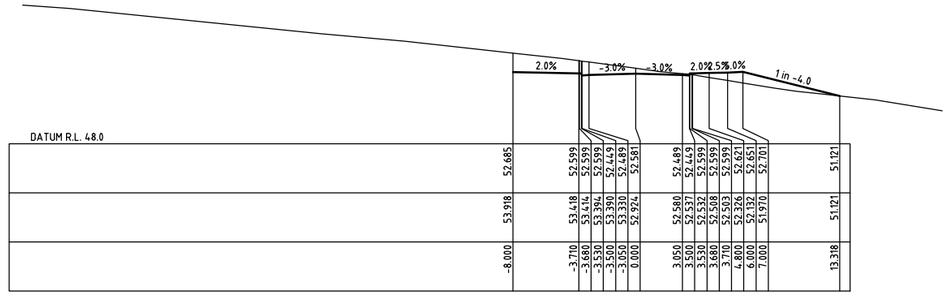
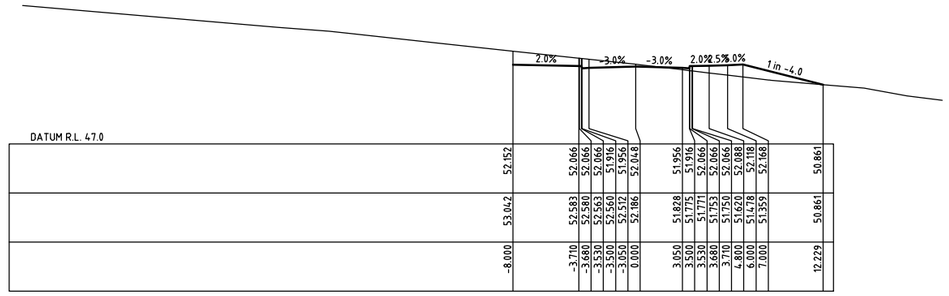
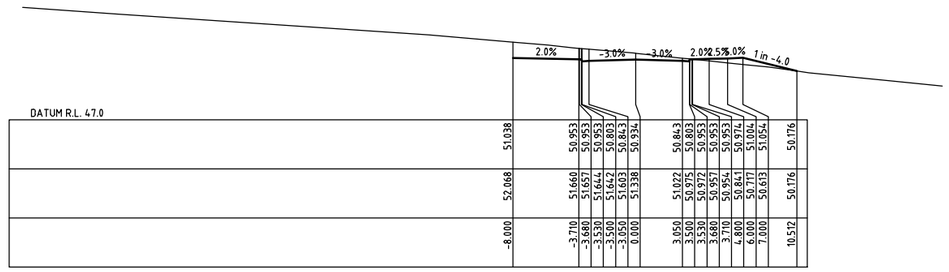


CH 140.000



CH 120.000



CH 100.000

150 mm ON ORIGINAL

A1

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-024_[04].dwg	19 May 2014	11:50:14

EXTERNAL REFERENCE FILES: X_Nevc_a1_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 (2 0 2 4 6 8 10)

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

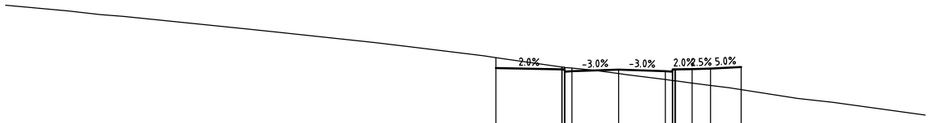
Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 5 CROSS SECTIONS SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-024	04



DATUM R.L. 48.0

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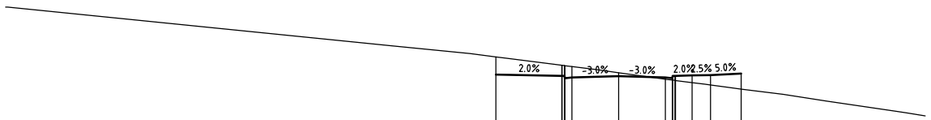
	53.972	53.364	53.360	53.338	53.334	53.289	52.934	52.541	52.483	52.479	52.460	52.456	52.316	52.161	51.887
	-8.000	-3.710	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	3.710	4.800	6.000	8.000

CH 180.000



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EXISTING	54.098	53.548	53.544	53.525	53.521	52.709	53.463	52.749	53.361	52.636	52.581	52.577	52.559	52.555	52.421	52.266	51.996
OFFSET	-8.000	-3.710	-3.680	-3.530	-3.500	-3.050	0.000	3.050	3.500	3.530	3.680	3.710	4.800	6.000	8.000

CH 160.000

150 mm ON ORIGINAL

A1

X_Newc_a1_30012003

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES

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02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

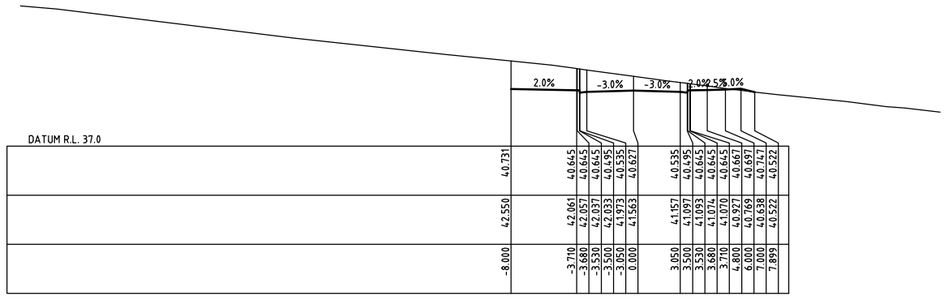
Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 5 CROSS SECTIONS SHEET 2

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-025	04



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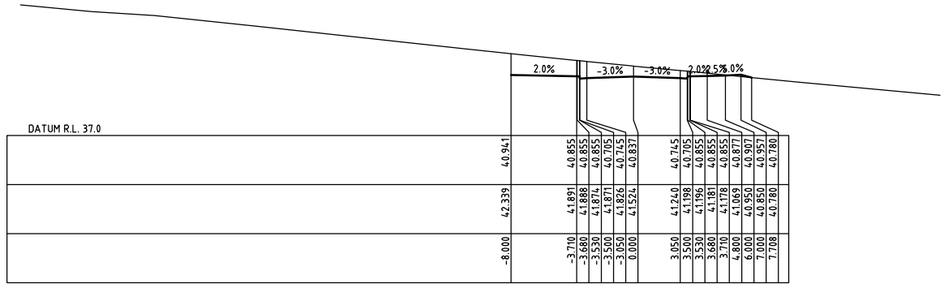

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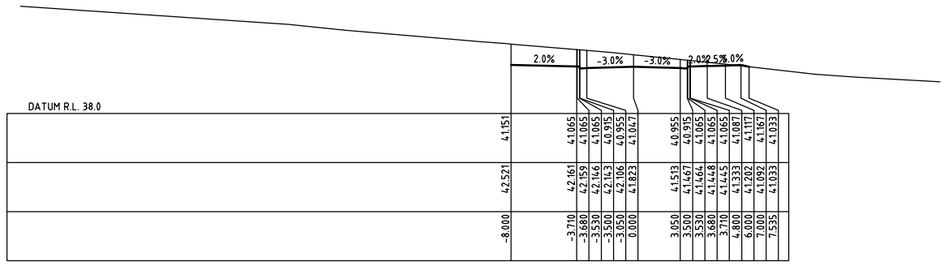
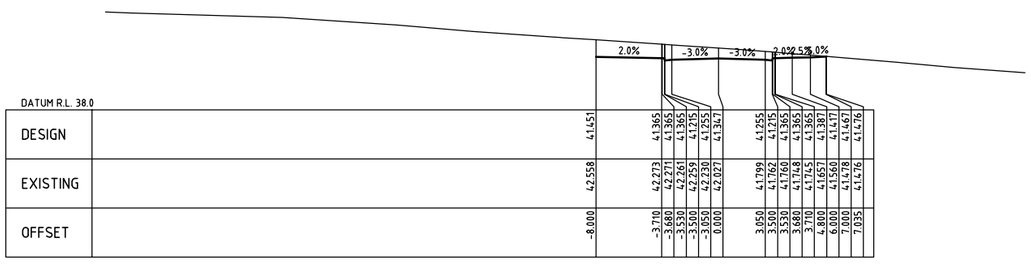
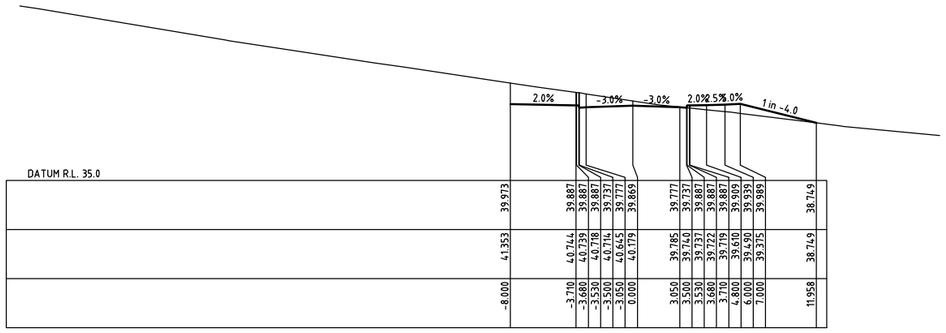


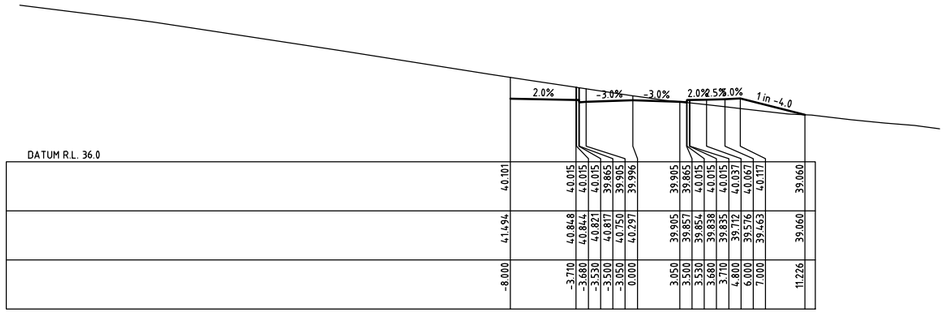
CH 40.000



CH 20.000



CH 154.128



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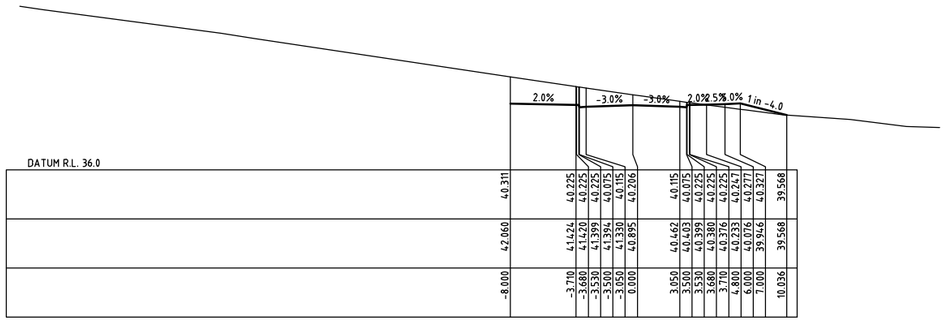
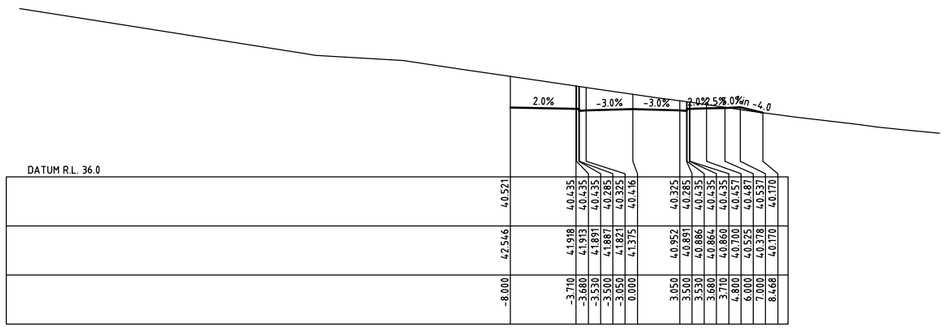


CH 120.000



CH 100.000

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-026_[04].dwg	19 May 2014	11:50:25

EXTERNAL REFERENCE FILES

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REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
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04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

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DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 6 CROSS SECTIONS SHEET 1

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-026	04

150 mm ON ORIGINAL

A1

DATUM R.L. 35.0

DESIGN	40.019	39.934	39.934	39.934	39.784	39.824	39.915		
EXISTING	41.358	40.738	40.733	40.713	40.709	40.647	40.231		
OFFSET	-8.000	-3.710	-3.600	-3.530	-3.500	-3.050	0.000		

CH 160.000

150 mm ON ORIGINAL

A1

X_New_a1_30012003

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
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DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

SMEC

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SMEC PROJECT No 30012003

CLIENT

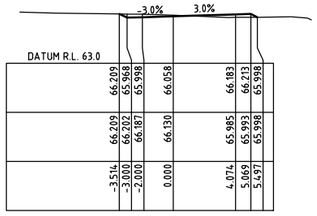
Urban Growth NSW

PROJECT TITLE

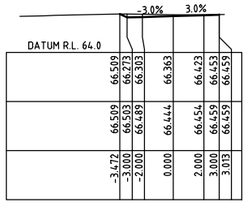
MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

ROAD 6 CROSS SECTIONS SHEET 2

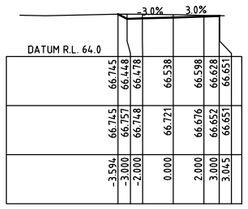
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-027	04



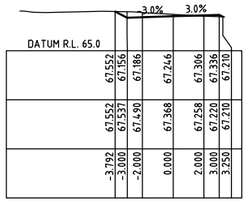
CH 73.000



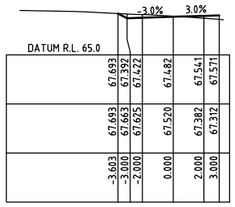
CH 64.754



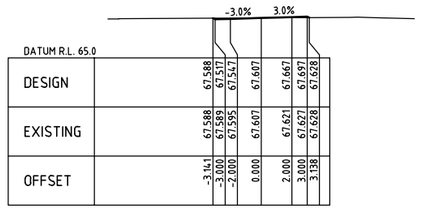
CH 60.000



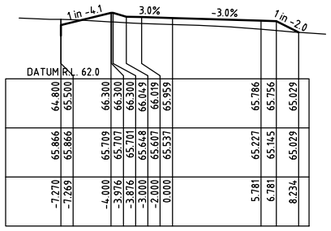
CH 40.000



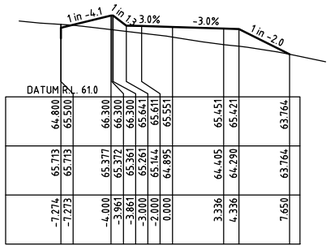
CH 20.000



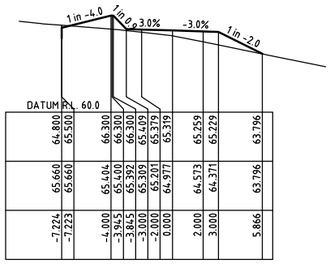
CH 0.001



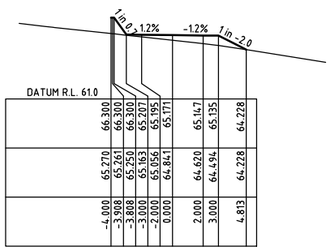
CH 120.000



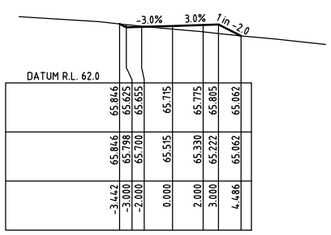
CH 113.333



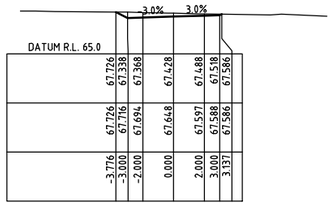
CH 108.682



CH 100.000



CH 82.309



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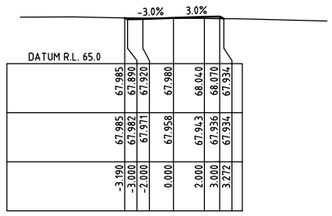

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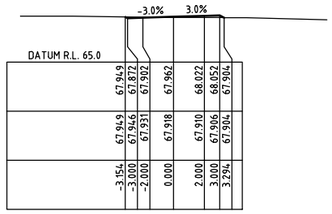

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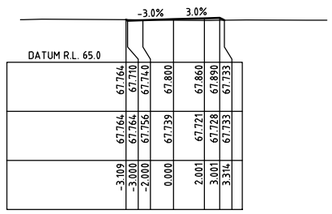
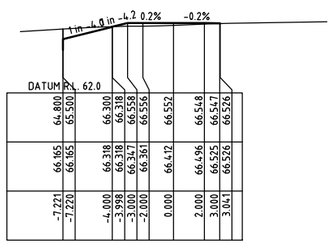
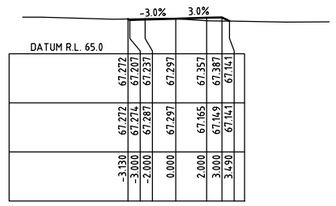


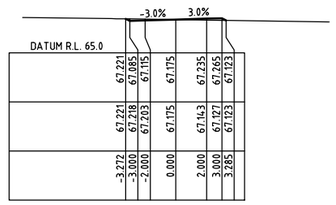
CH 154.654



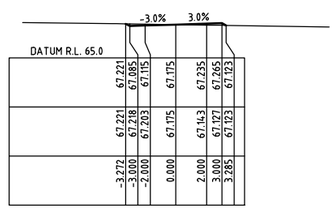
CH 129.687



CH 189.896



CH 186.315



CH 186.315

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-028_[04].dwg	19 May 2014	11:50:36

EXTERNAL REFERENCE FILES

X_Newc_at_30012003

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:200 2 0 2 4 6 8 10

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
ROAD 7 CROSS SECTIONS

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200 NAT.	PRELIMINARY	30012003-028	04

150 mm ON ORIGINAL

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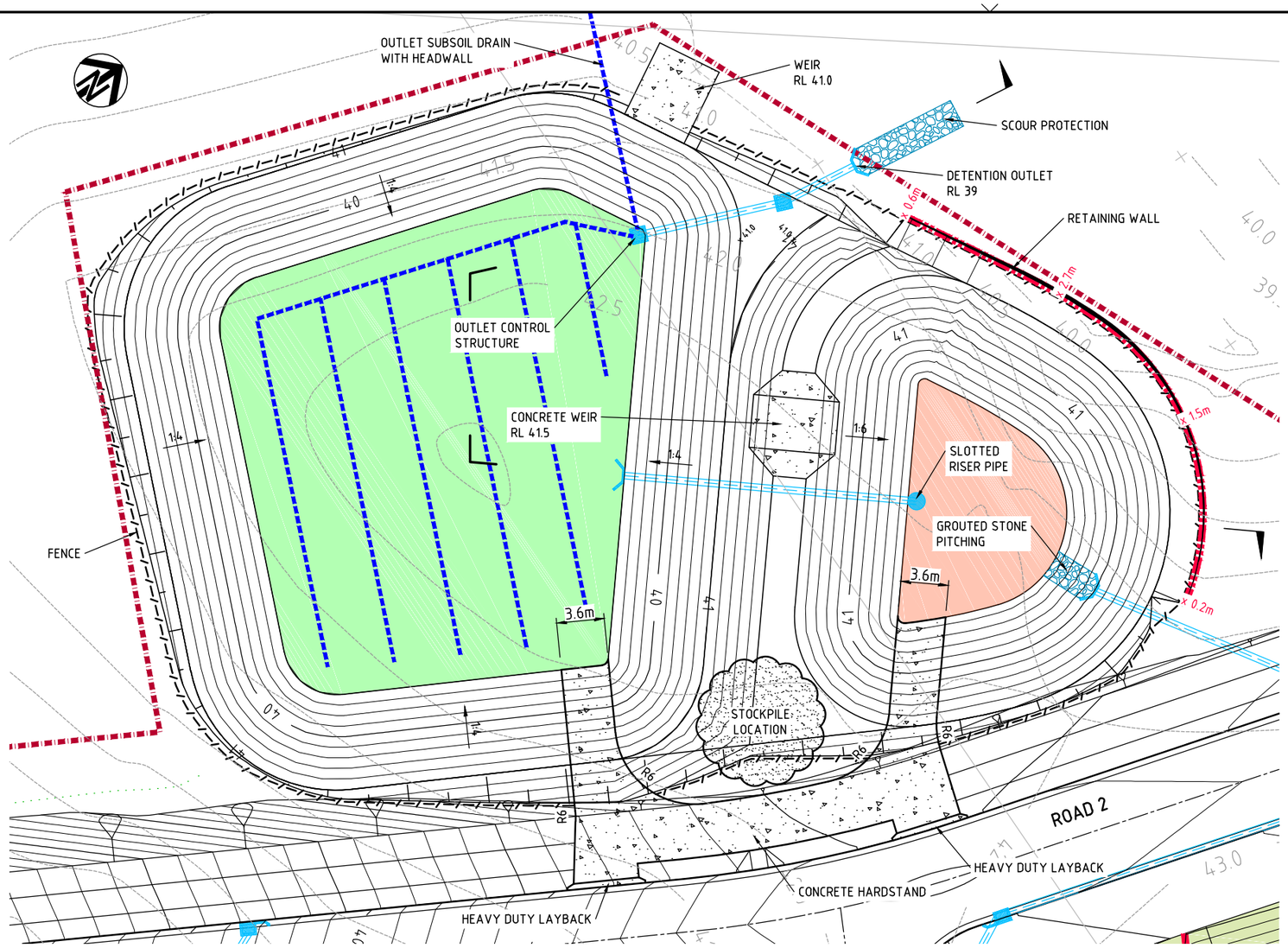
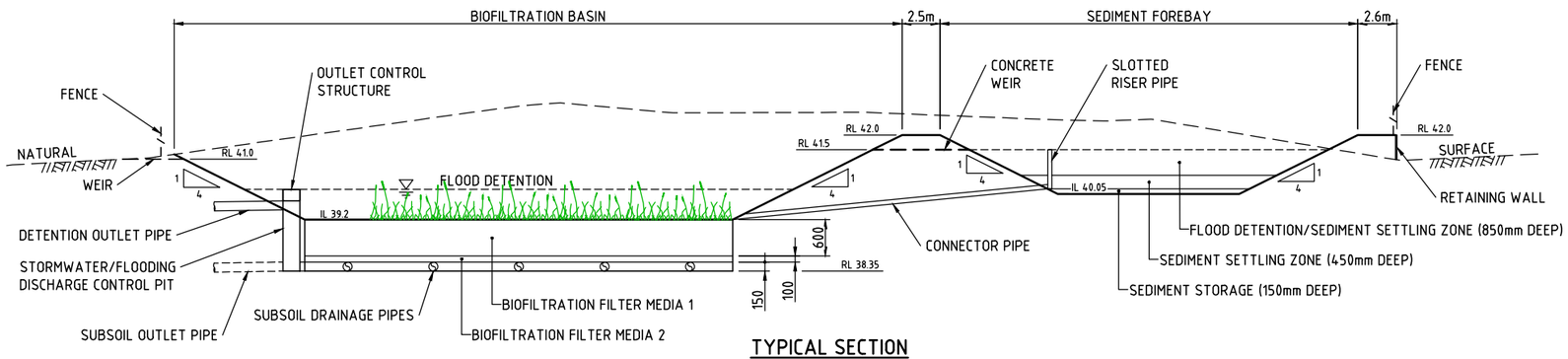


PLAN

SCALE 1:200



TYPICAL SECTION

N.T.S.

SUMMARY OF VOLUMES ACHIEVED IN CONCEPT DESIGN COMPARED TO DESIGN REPORT

MODELLED× VOLUME AT CREST (m^3)	VOLUME ACHIEVED AT CREST (m^3)	MODELLED× VOLUME AT WEIR (m^3)	VOLUME ACHIEVED AT WEIR (m^3)
3156	3458	2369	2208

× FROM TABLE 6-2 BMT WBM REPORT, DECEMBER 2012.

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
T:\Projects\30012003\CAD\DWG\30012003-029_[04].dwg	19 May 2014	11:50:50

EXTERNAL REFERENCE FILES: X_Nevr_a1_30012003, X_DA_SURV, X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING: SCALE 1:200 (2 0 2 4 6 8 10)

DESIGNER: SMEC AUSTRALIA PTY LTD © ABN 47 065 475 149, 74 HUNTER STREET, NEWCASTLE NSW 2300, PH +61 2 4925 9600 FAX +61 2 4925 3888, SMEC PROJECT No 30012003

CLIENT: Urban Growth NSW

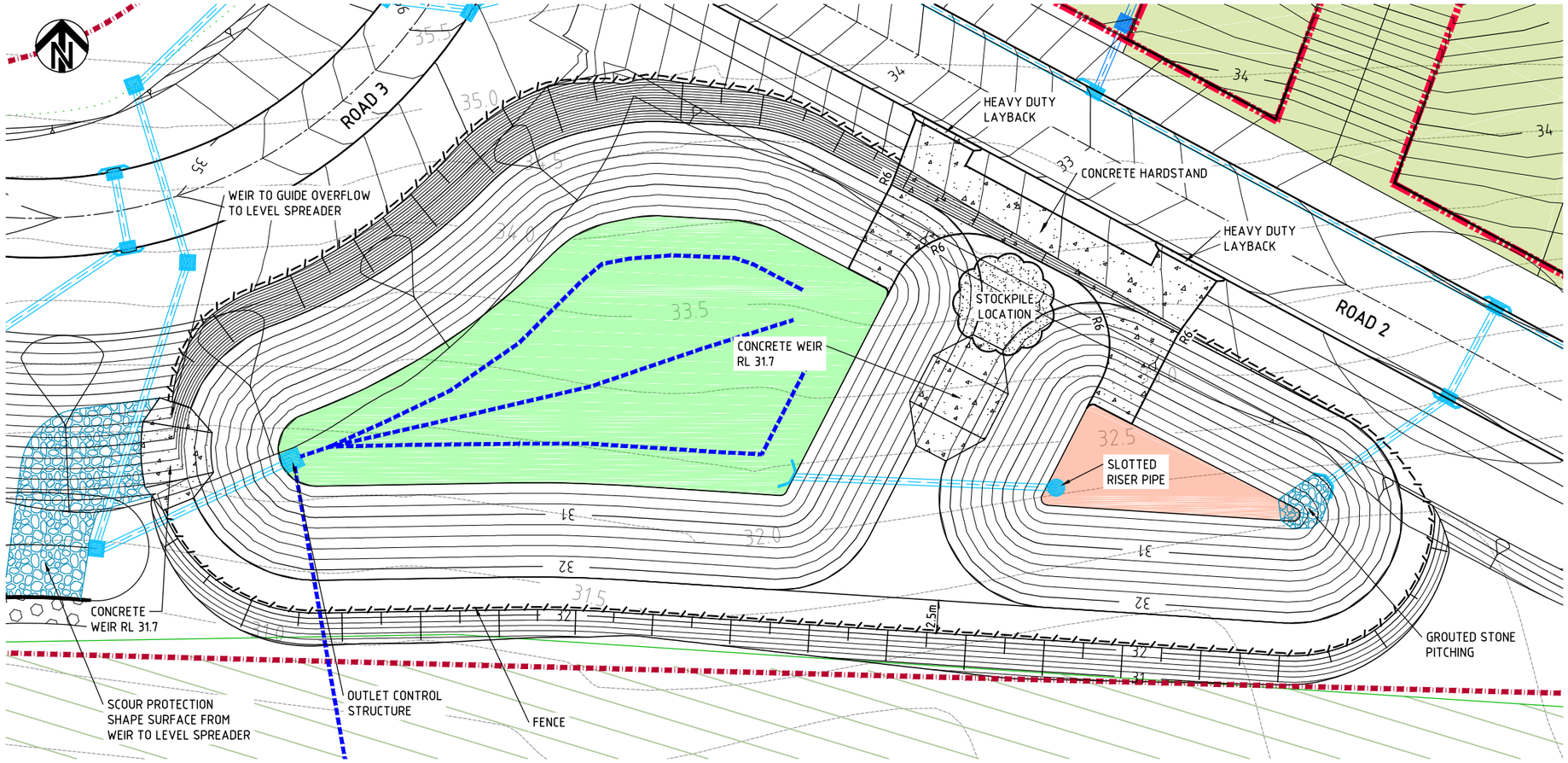
PROJECT TITLE: MYALL ROAD, HILLSBOROUGH DEVELOPMENT APPLICATION

BASIN A PLAN & TYPICAL SECTION

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200	PRELIMINARY	30012003-029	04

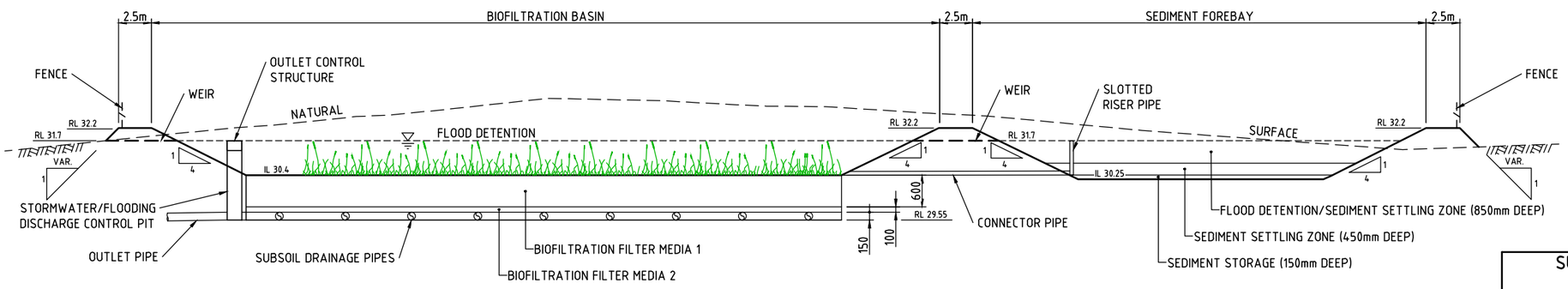
150 mm ON ORIGINAL

A1



PLAN

SCALE 1:200



TYPICAL SECTION

N.T.S.

SUMMARY OF VOLUMES ACHIEVED IN CONCEPT DESIGN COMPARED TO DESIGN REPORT

MODELLED× VOLUME AT CREST (m^3)	VOLUME ACHIEVED AT CREST (m^3)	MODELLED× VOLUME AT WEIR (m^3)	VOLUME ACHIEVED AT WEIR (m^3)
2764	2758	2023	2063

× FROM TABLE 6-2 BMT WBM REPORT, DECEMBER 2012.

DRAWING FILE LOCATION / NAME: T:\Projects\30012003\CAD\DWG\30012003-030_[04].dwg

PLOT DATE: 19 May 2014 TIME: 11:51:09

EXTERNAL REFERENCE FILES: X_New_at_30012003, X_DA_SURV, X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING: SCALE 1:200

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SMEC PROJECT No 30012003

CLIENT: Urban Growth NSW

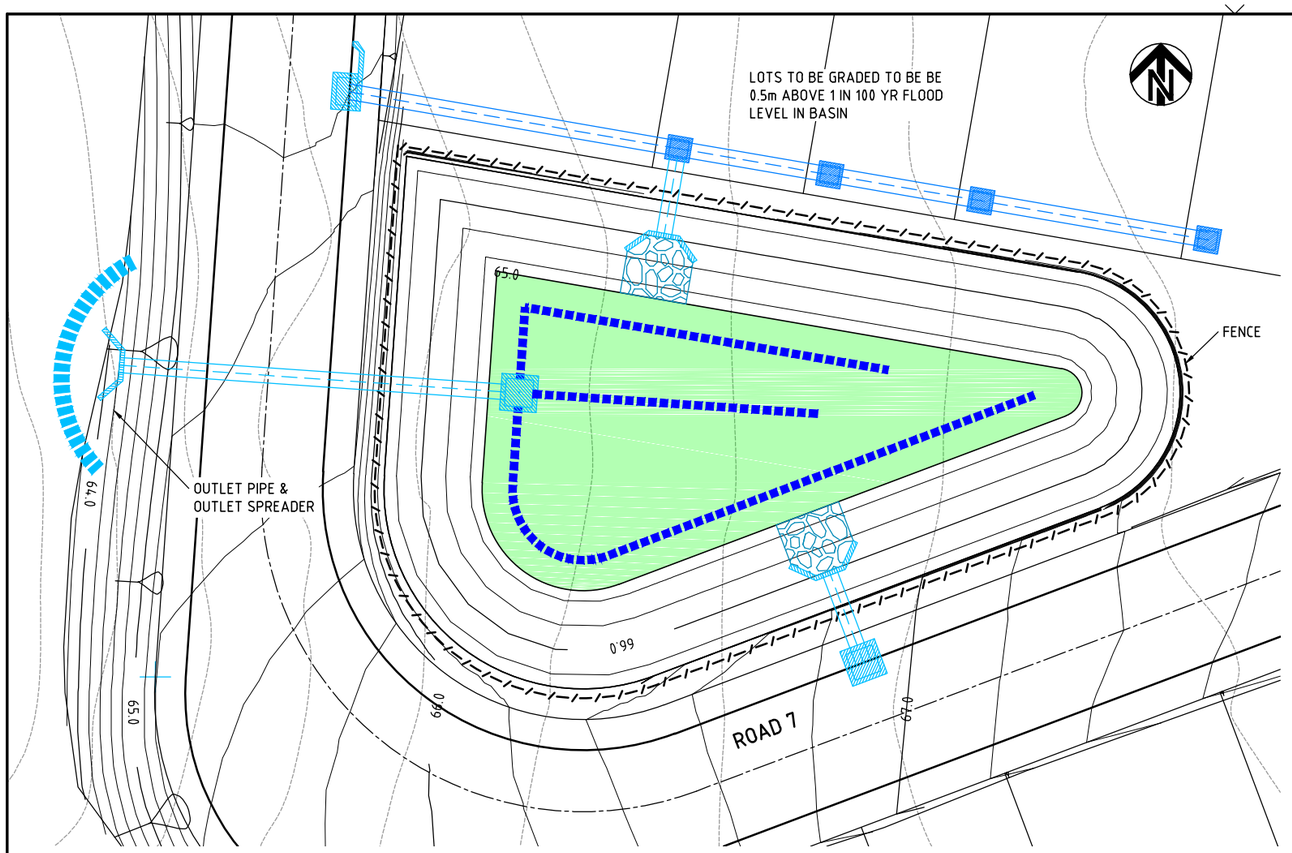
PROJECT TITLE: MYALL ROAD, HILLSBOROUGH DEVELOPMENT APPLICATION

BASIN B PLAN & TYPICAL SECTION

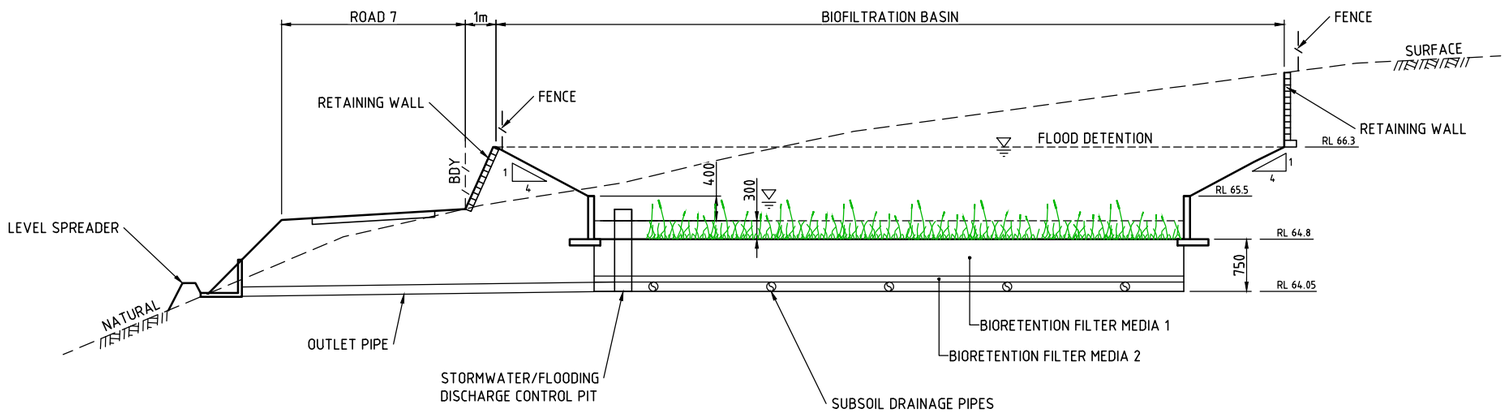
SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:200	PRELIMINARY	30012003-030	04

150 mm ON ORIGINAL

A1



PLAN
SCALE 1:100



TYPICAL SECTION
N.T.S.

SUMMARY OF VOLUMES ACHIEVED IN CONCEPT DESIGN COMPARED TO DESIGN REPORT

MODELLED× VOLUME AT CREST (m^3)	VOLUME ACHIEVED AT CREST (m^3)	MODELLED× VOLUME AT WEIR (m^3)	VOLUME ACHIEVED AT WEIR (m^3)
193	256	193	173

× FROM TABLE 6-2 BMT WBM REPORT, DECEMBER 2012.

DRAWING FILE LOCATION / NAME: T:\Projects\30012003\CAD\DWG\30012003-031_[04].dwg
PLOT DATE: 19 May 2014 TIME: 11:51:28

EXTERNAL REFERENCE FILES: X_New_gl_30012003, X_DA_SURV, X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING: SCALE 1:100 (1 0 1 2 3 4 5)

DESIGNER: SMEC
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SMEC PROJECT No 30012003

CLIENT: Urban Growth NSW

PROJECT TITLE: MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION
BASIN C
PLAN & TYPICAL SECTION

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:100	PRELIMINARY	30012003-031	04

150 mm ON ORIGINAL
A1

DRAWING FILE LOCATION / NAME	PLOT DATE	TIME
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EXTERNAL REFERENCE FILES

X_New_al_30012003
X_DA_SURV
X_DA_DESIGN

REV	DATE	AMENDMENT / REVISION DESCRIPTION	WVR No.	APPROVAL
01	19.12.12	ISSUED FOR APPROVAL	001	JK
02	21.01.13	FOR DA ISSUE	002	JK
03	2.04.14	REISSUED FOR DA APPROVAL	003	JK
04	19.05.14	REISSUED FOR DA APPROVAL	004	JK

TITLE	NAME
DRAFTER	S. ALLEN
DRAFTING CHECK	D. WYSE
DESIGNER	S. ALLEN
DESIGN CHECK	J. KNIEST
PROJECT MANAGER	J. KNIEST
PROJECT DIRECTOR	B. GUNN

SCALES AT A1 SIZE DRAWING

SCALE 1:750 5 0 10 20 30

DESIGNER

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SMEC PROJECT No 30012003

CLIENT

Urban Growth NSW

PROJECT TITLE

MYALL ROAD, HILLSBOROUGH
DEVELOPMENT APPLICATION

SITE REGRADING SLOPE ANALYSIS PLAN

SCALE	PHASE	PROJECT / DRAWING No.	REVISION
1:750	PRELIMINARY	30012003-032	04

150 mm ON ORIGINAL

A1