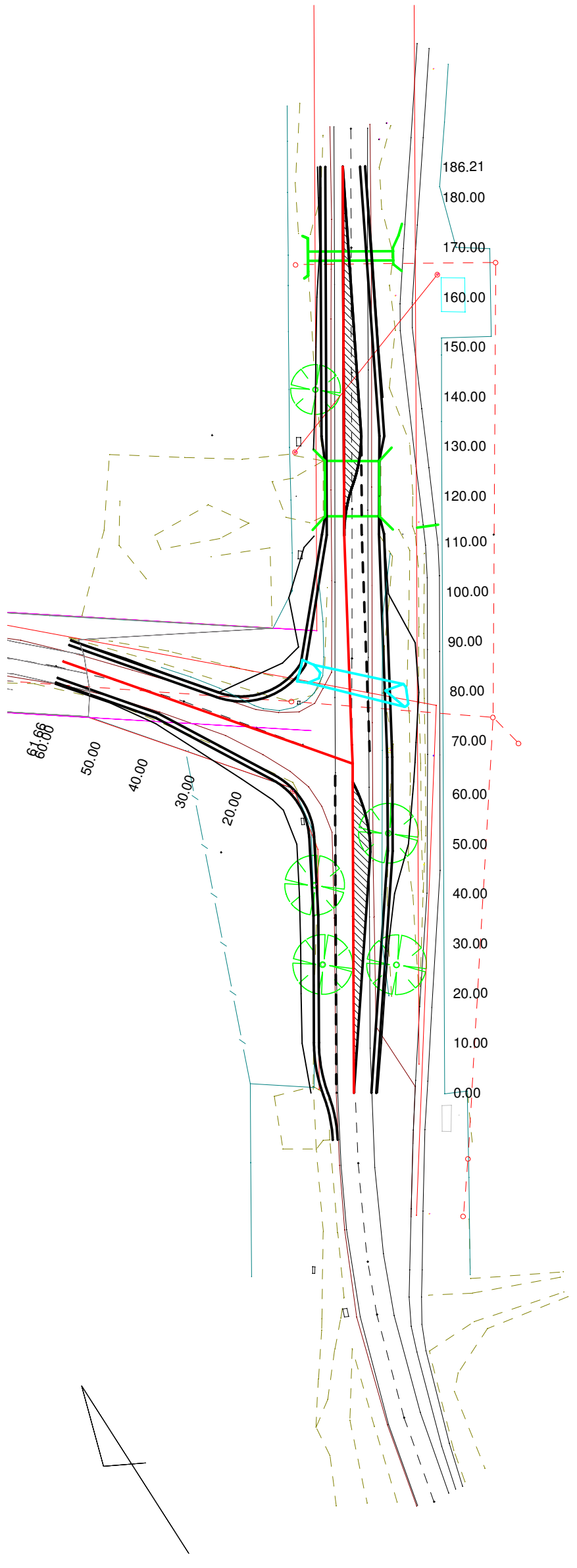


# ATTACHMENT

## ITEM 6.2.3 – GLEN WILLOW ENTRANCE OPTIONS



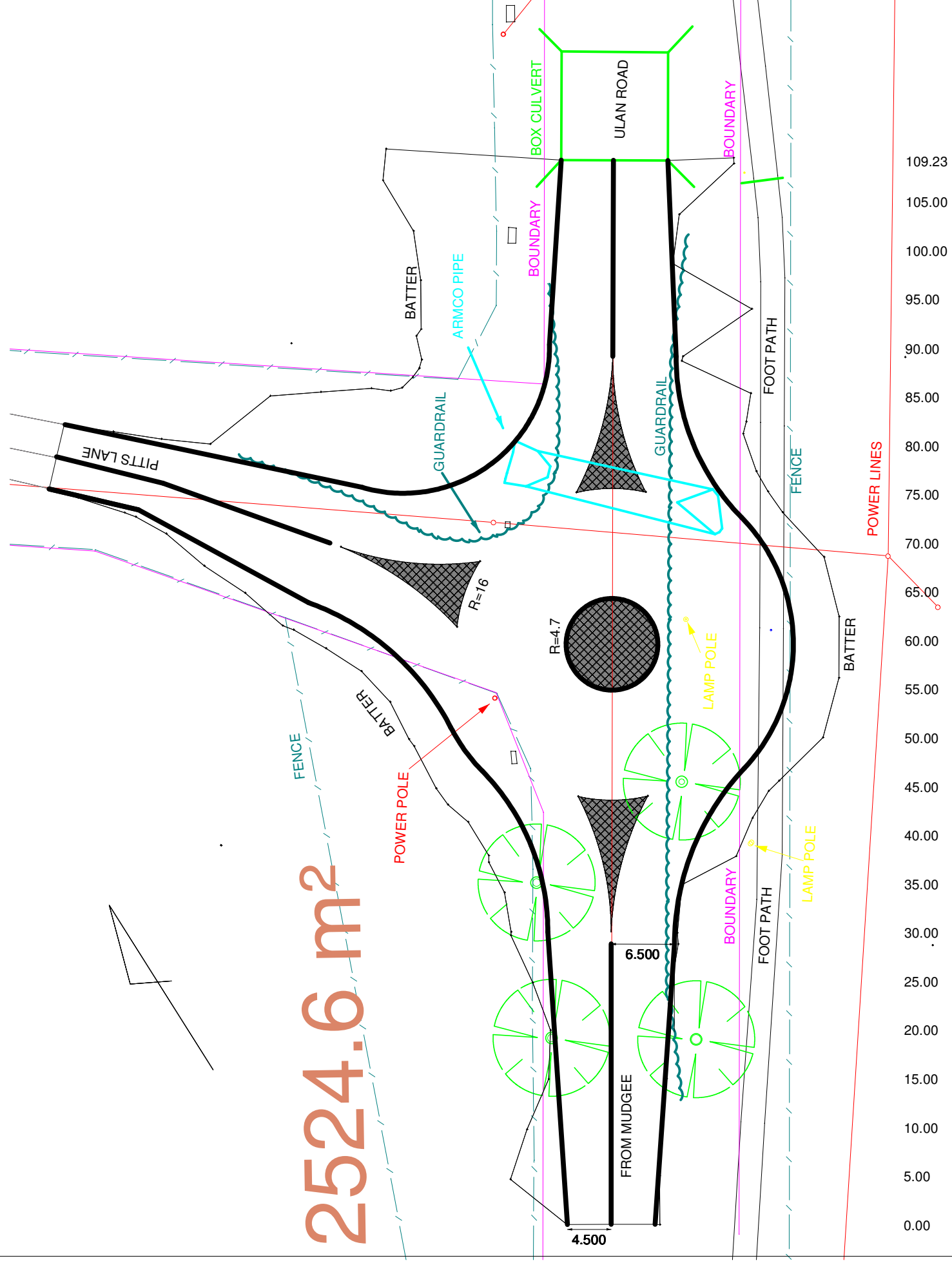
Cut/Fill	10.00	12.74	448.06	448.90	0.87	0.92	20.00	447.96	448.66	0.70	30.00	447.88	448.36	0.48	40.00	447.91	448.12	0.21	50.00	447.82	447.89	0.06	60.00	447.64	447.55	0.09	61.66	447.59	447.49	0.09
Design																														
Natural																														
Chainage																														
Alignment Details	B=322'01.47" D=48.92																													
Super Elevation																														

Scale Horizontal 1:1000 Vertical 1:100

Cut/Fill	0.00	449.51	449.45	449.55	0.10	10.00	449.45	449.55	0.10	20.00	449.45	449.55	0.10	30.00	449.46	449.56	0.10	40.00	449.47	449.57	0.10	50.00	449.50	449.60	0.10	60.00	449.53	449.63	0.10	62.47	449.54	449.64	0.10	66.19	449.55	449.65	0.10	69.95	449.56	449.66	0.10	70.00	449.56	449.66	0.10	80.00	449.58	449.68	0.10	90.00	449.60	449.70	0.10	100.00	449.61	449.71	0.10	110.00	449.60	449.70	0.10	112.10	449.59	449.69	0.10	120.00	449.58	449.68	0.10	130.00	449.54	449.64	0.10	140.00	449.50	449.60	0.10	150.00	449.47	449.57	0.10	160.00	449.44	449.54	0.10	170.00	449.41	449.51	0.10	180.00	449.36	449.46	0.10	186.21	449.32	449.42	0.10
Design																																																																																																	
Natural																																																																																																	
Chainage																																																																																																	
Alignment Details	B=32'20'59" D=62.47      B=30'28'39" D=42.15      B=32'20'59" D=74.11																																																																																																
Super Elevation																																																																																																	

Scale Horizontal 1:1000 Vertical 1:100

REVISIONS	COORD SYSTEM	SURVEY	DESIGN	MID WESTERN REGIONAL COUNCIL	
	HEIGHT DATUM	DUNCAN PRIESTLEY CIVIL ENGINEERING	DUNCAN PRIESTLEY CIVIL ENGINEERING	DRAWING	
		SURVEYED: D Priestley	DESIGNED: D Priestley	glen willow - OP1 MP	
				PLAN NUMBER	
				ULAN ROAD / PITTS LANE INTERSECTION UPGRADE	
				OPTION 1 - INTERSECTION ULAN ROAD AND PITTS LANE	
				WITH TRAFFIC LIGHTS IF NECESSARY.	
				Total Sheets: 8	Sheet Number: 2



civild - VOLUMES REPORT Nov 14, 2010 07:13PM

COMPUTATION VIA PRISMS

SURFACES:

Design: glen willow - OP2  
 Natural: glen willow - ALS

REGION:

Boundary: OP2

SURFACE AREAS:

Design: 3810.0 (square metres)  
 Natural: 3897.1 (square metres)

PLAN AREAS:

Boundary: 3771.0 (square metres) within the boundary  
 Design: 3771.0 (square metres) within the boundary and within design surface  
 Natural: 3771.0 (square metres)

CUT/FILL/MATCHING AREAS:

Cut: 546.6 (square metres)  
 Fill: 3224.2 (square metres)  
 Matching: 0.1 (square metres)  
 Total Area: 3771.0 (square metres)

VOLUMES:

Cut to Fill Ratio: 0.013

Cut: 20.3 (cubic metres)  
 Fill: 1593.8 (cubic metres)  
 Net: 1573.5 (cubic metres) [fill]

Cut: 0.0 (cubic metres) / (square metres)  
 Fill: 0.5 (cubic metres) / (square metres)

Average Cut Depth: 0.0 (m)  
 Maximum Cut Depth: 0.2 (m)  
 Average Fill Depth: 0.5 (m)  
 Maximum Fill Depth: 3.0 (m)

NOTE TOTAL VOLUME INCLUDES BASE MATERIAL WHICH HAS AN AREA OF 2524.6m<sup>2</sup>

REVISIONS	COORD SYSTEM	SURVEY	DESIGN	MID WESTERN REGIONAL COUNCIL	
	HEIGHT DATUM	DUNCAN PRIESTLEY CIVIL ENGINEERING	DUNCAN PRIESTLEY CIVIL ENGINEERING	DRAWING	
		SURVEYED: D Priestley	DESIGNED: D Priestley	glen willow - OP2 MP	
				PLAN NUMBER	
				Total Sheets: 13	
				Sheet Number: 2	
				ULAN ROAD / PITTS LANE INTERSECTION UPGRADE	
				OPTION 2	
				ROUNDABOUT ULAN ROAD AND PITTS LANE	

civilcad - VOLUMES REPORT Nov 14, 2010 01:01PM

COMPUTATION VIA PRISMS

SURFACES:

Design: glen willow - OP3  
 Natural: glen willow - ALS

REGION:

Boundary: BND-01

SURFACE AREAS:

Design: 2355.3 (square metres)  
 Natural: 2355.0 (square metres)

PLAN AREAS:

Boundary: 2347.6 (square metres) within the boundary  
 Design: 2339.7 (square metres) within the boundary and within design surface  
 Natural: 2339.7 (square metres)

CUT/FILLMATCHING AREAS:

Cut: 326.4 (square metres)  
 Fill: 2013.3 (square metres)  
 Matching: 0.0 (square metres)  
 Total Area: 2339.7 (square metres)

WARNING: There is a difference between volumes area and boundary area.

VOLUMES:

Cut to Fill Ratio: 0.033

Cut: 36.8 (cubic metres)

Fill: 1113.2 (cubic metres)

Net: 1076.4 (cubic metres) [fill]

Cut: 0.1 (cubic metres) / (square metres)

Fill: 0.6 (cubic metres) / (square metres)

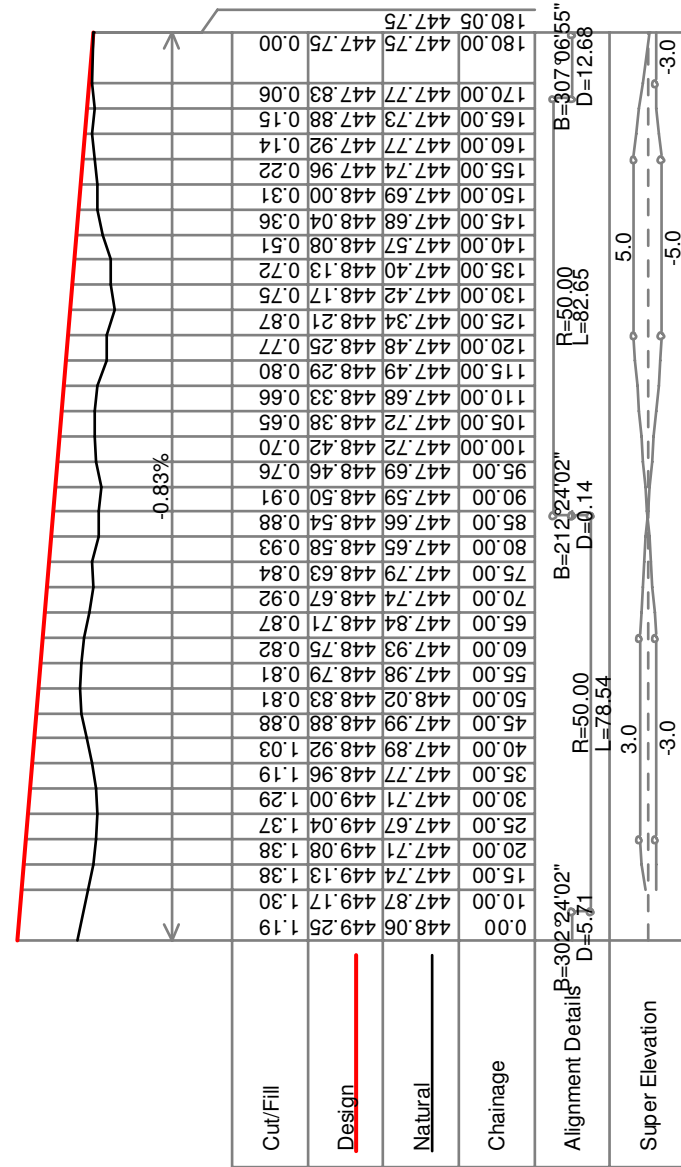
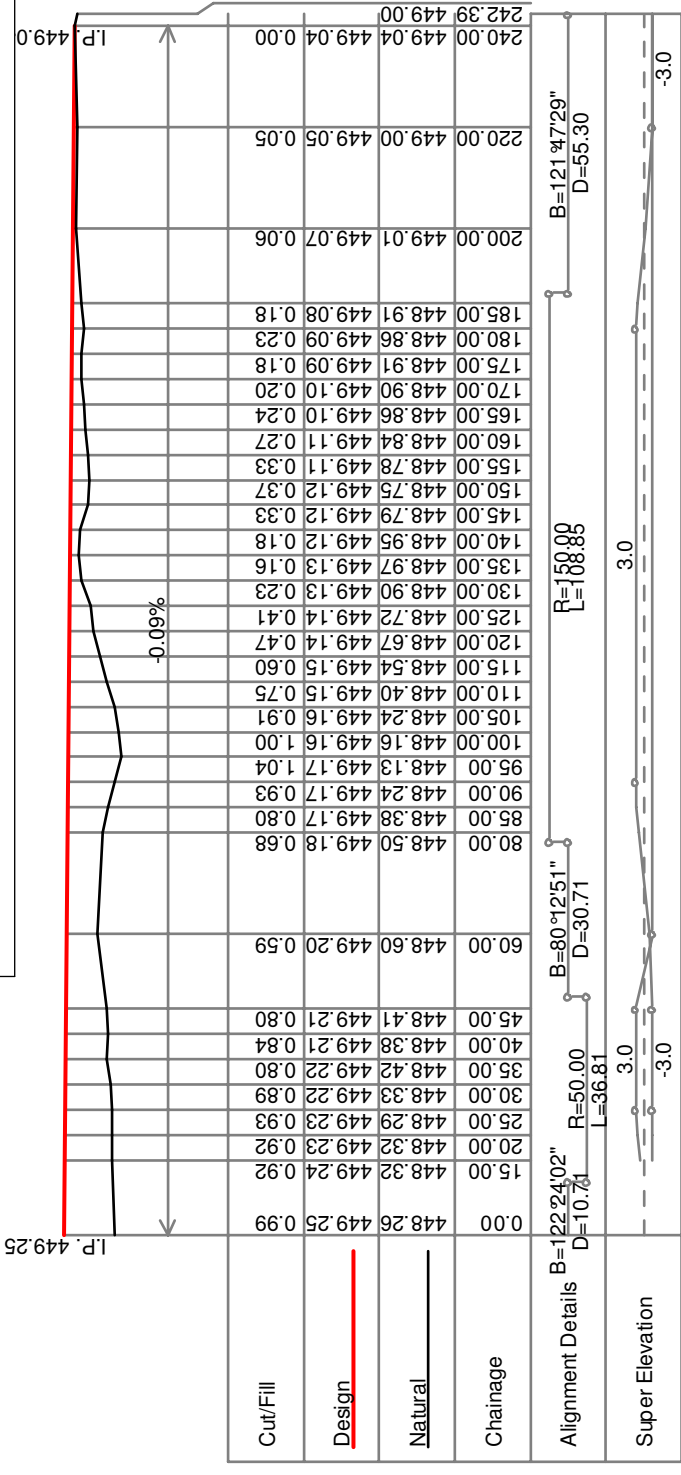
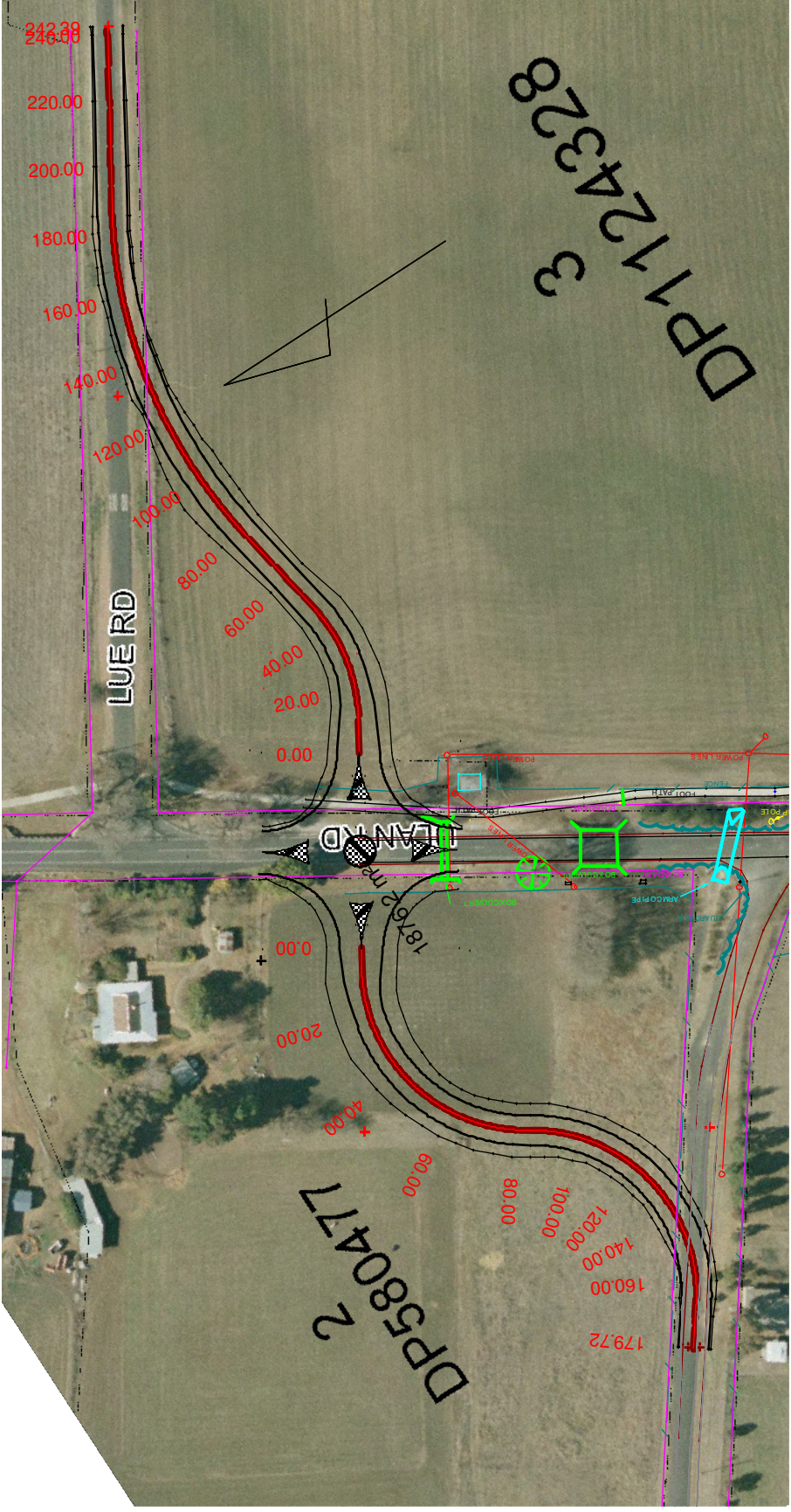
Average Cut Depth: 0.1 (m)

Maximum Cut Depth: 0.5 (m)

Average Fill Depth: 0.6 (m)

Maximum Fill Depth: 1.2 (m)

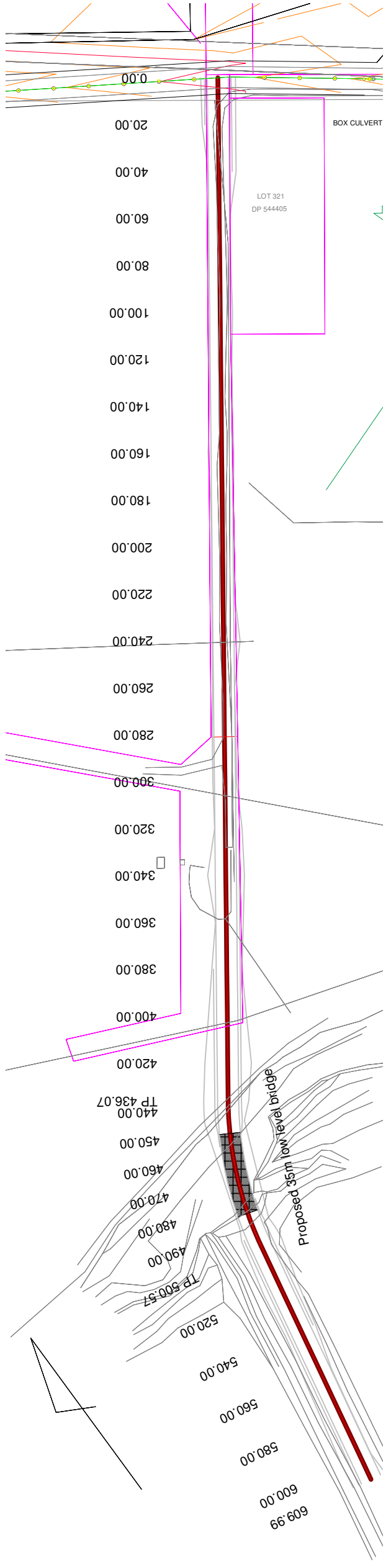
NOTE TOTAL VOLUME INCLUDES BASE MATERIAL WHICH HAS AN AREA OF 1876m<sup>2</sup>



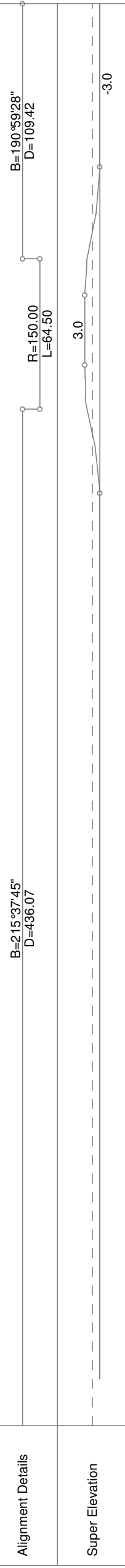
Cut/Fill	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	185.00	200.00	220.00	240.00	242.39
Design	448.06	447.87	447.74	447.71	447.67	447.71	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04
Natural	448.06	447.87	447.74	447.71	447.67	447.71	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04	449.04
Chainage	0.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00	90.00	100.00	110.00	120.00	130.00	140.00	150.00	160.00	170.00	180.00	185.00	200.00	220.00	240.00	242.39

Scale Horizontal 1:1500 Vertical 1:150

REVISIONS	COORD SYSTEM	SURVEY	DESIGN	MID WESTERN REGIONAL COUNCIL ULAN ROAD / PITTS LANE INTERSECTION UPGRADE OPTION 3	DRAWING glen willow - OP3 MP PLAN NUMBER	Total Sheets: 12
	HEIGHT DATUM	DUNCAN PRIESTLEY CIVIL ENGINEERING	DUNCAN PRIESTLEY CIVIL ENGINEERING			
		SURVEYED: D Priestley	DESIGNED: D Priestley	ROUNDABOUT INCORPORATING LUE ROAD		Sheet Number: 2



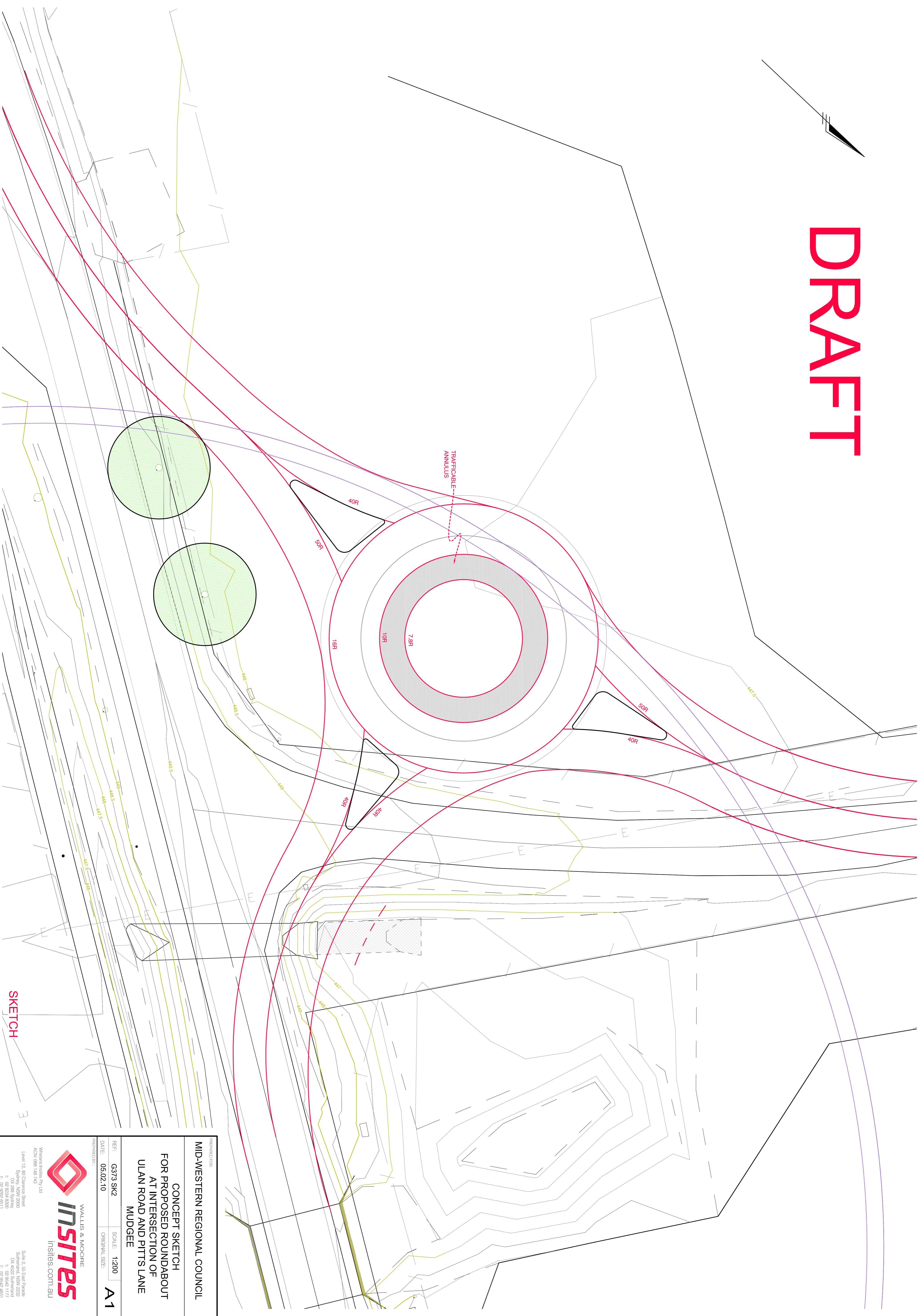
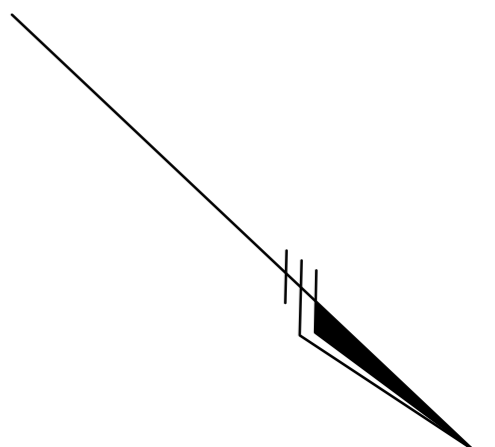
Chainage	Design Elevation	Natural Elevation	Cut/Fill	Grade (%)	Vertical Curve Data
0.00	446.34	446.41	0.00	0.33%	I.P. 446.41
20.00	446.41	446.41	0.00	0.09%	
40.00	446.30	446.37	0.09	0.16%	
60.00	446.21	446.34	0.16	0.23%	
80.00	446.11	446.34	0.23	0.31%	
100.00	446.01	446.32	0.31	0.21%	I.P. 446.30
120.00	446.01	446.22	0.21	0.17%	
140.00	445.94	445.71	0.24	0.22%	
160.00	445.41	445.69	0.28	1.20%	I.P. 445.41
180.00	445.41	445.63	0.22	0.15%	
200.00	445.60	445.79	0.17	0.19%	
220.00	446.01	446.04	0.03	0.15%	I.P. 446.25
240.00	446.06	446.25	0.19	0.04%	
260.00	446.00	446.25	0.25	0.10%	
280.00	446.00	446.25	0.25	0.08%	
300.00	446.01	446.25	0.24	0.08%	
320.00	446.17	446.25	0.08	0.04%	
340.00	446.40	446.25	0.15	0.04%	
360.00	446.15	446.25	0.10	0.04%	
380.00	446.01	446.05	0.04	0.04%	I.P. 446.25
400.00	446.19	445.43	0.76	-4.10%	
415.00	444.82	444.63	1.72	0.00%	
420.00	446.35	444.63	1.72	0.00%	I.P. 444.20
430.00	446.41	444.25	2.16	0.00%	
440.00	445.94	444.22	1.72	0.01%	I.P. 444.20
450.00	445.08	444.20	0.88	0.01%	
460.00	442.33	444.20	1.87	1.00%	
470.00	442.43	444.20	1.77	1.97%	
480.00	443.38	444.20	0.82	1.48%	I.P. 444.20
485.00	443.83	444.20	0.37	0.82%	
490.00	444.42	444.22	0.20	0.36%	I.P. 444.20
495.00	444.62	444.26	0.36	0.60%	
500.00	444.95	444.34	0.60	0.63%	
505.00	444.46	444.35	0.11	0.62%	
520.00	444.98	444.98	0.00	0.62%	
525.00	445.22	445.22	0.00	0.62%	
530.00	445.48	445.48	0.00	0.62%	
540.00	446.17	445.93	0.24	0.24%	I.P. 446.50
550.00	446.26	446.26	0.00	0.13%	
560.00	446.35	446.48	0.13	0.07%	
570.00	446.58	446.58	0.00	0.07%	
580.00	446.55	446.62	0.07	0.02%	
600.00	446.68	446.70	0.02	0.00%	I.P. 446.74
609.99	446.74	446.74	0.00	0.00%	



Scale Horizontal 1:2000 Vertical 1:200

REVISIONS	COORD SYSTEM	DESIGN	MID WESTERN REGIONAL COUNCIL		DRAWING	Total Sheets: 13
	HEIGHT DATUM	DUNCAN PRIESTLEY CIVIL ENGINEERING	ULAN ROAD / PITTS LANE INTERSECTION UPGRADE			
		DUNCAN PRIESTLEY CIVIL ENGINEERING	MUDGEE		PLAN NUMBER	Sheet Number: 2
		DUNCAN PRIESTLEY CIVIL ENGINEERING	DESIGNED: D Priestley		OPTION 4 - LOW LEVEL BRIDGE	

# DRAFT



SKETCH

PROPOSED BY:  
**MID-WESTERN REGIONAL COUNCIL**

**CONCEPT SKETCH  
FOR PROPOSED ROUNDABOUT  
AT INTERSECTION OF  
ULAN ROAD AND PITTS LANE  
MUDGEEE**

REF: G373 SK2      SCALE: 1:200  
DATE: 05.02.10      ORIGINAL SIZE: **A1**



Winners Builders Pty Ltd  
ACN: 088 148 743  
Level 12, 80 Chivers Street  
Sydney, NSW 2000  
DX: 422 Sydney  
T: 02 9526 6511  
F: 02 9526 6511

Wallis & Moore  
Suite 2, 55 East Parade  
Sutherland NSW 2222  
DX: 422 Sutherland  
T: 02 9542 4811  
F: 02 9542 4811