APPENDIX 8.1

SITE PLAN SHOWING EXISTING FEATURES

LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI

NOTES

NO SURVEY HAS BEEN MADE OF THE BOUNDARIES.

THE BOUNDARIES HAVE NOT BEEN MARKED.

AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY.

CONTOUR INTERVAL 1.0 METRE

CONTOURS ARE INDICATIVE OF GROUNDFORM ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATION OF QUANTITIES WITH CAUTION.

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE.

STRUCTURES AND FEATURES SHOWN ON THIS PLAN ARE REPRESENTED AS INDICATIVE ONLY AND HAVE NOT BEEN LOCATED OR SHOWN FOR DESIGN OR CONSTRUCTION PURPOSES.

SCALE 1:1500 AT PAPER SIZE A2

Surveying & Valuations

PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

REFERENCE: 0835 A8.1
Rev: 14.11.2008
Structure heights added

APPENDIX 8.2

SITE ANALYSIS PLAN SHOWING NATURAL ELEMENTS OF PROPERTY

LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI

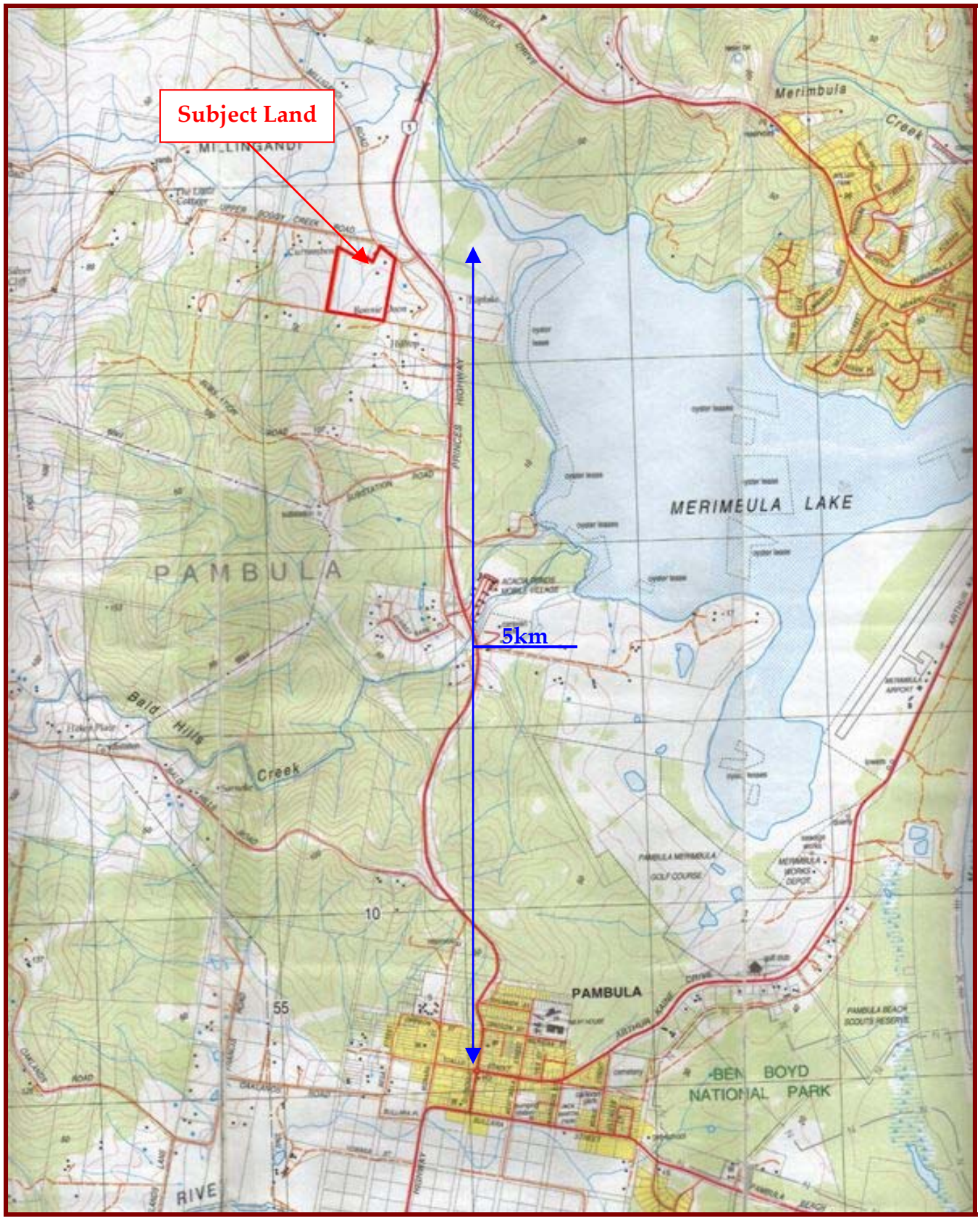
CONTOUR INTERVAL 1.0 METRE .

SCALE 1:1500 AT PAPER SIZE A2

Surveying & Valuations
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

REFERENCE: 0835 A8.2
Rev: 14.11.2008
Contours and Goggle Earth image added to show slope & topography, vegetation & neighbouring properties

Appendix 8.3


Subject Land
MILLINGANDI
Merimbula
Creek
MERIMBULA LAKE
PAMBULA
5km
Bald Hills
Creek
10
55
PAMBULA
BEN BOYD
NATIONAL PARK

APPENDIX 8.4

PLAN OF PROPOSED SUBDIVISION

LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI

ELECTRICITY LINES

TELSTRA CABLES

BUILDING ENVELOPE

WASTE WATER ABSORBTION FIELD ENVELOPE 200 m²
WASTE WATER ABSORBTION FIELD 105 m²

NOTES

NO SURVEY HAS BEEN MADE OF THE BOUNDARIES.

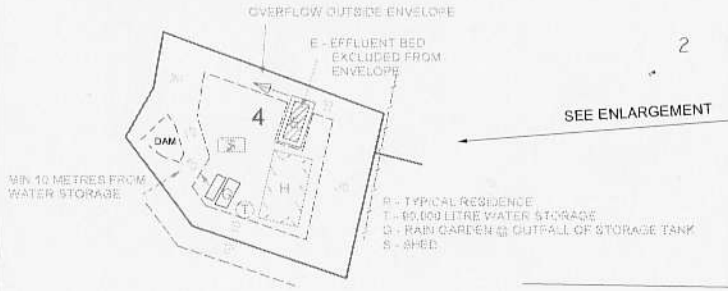
THE BOUNDARIES HAVE NOT BEEN MARKED.

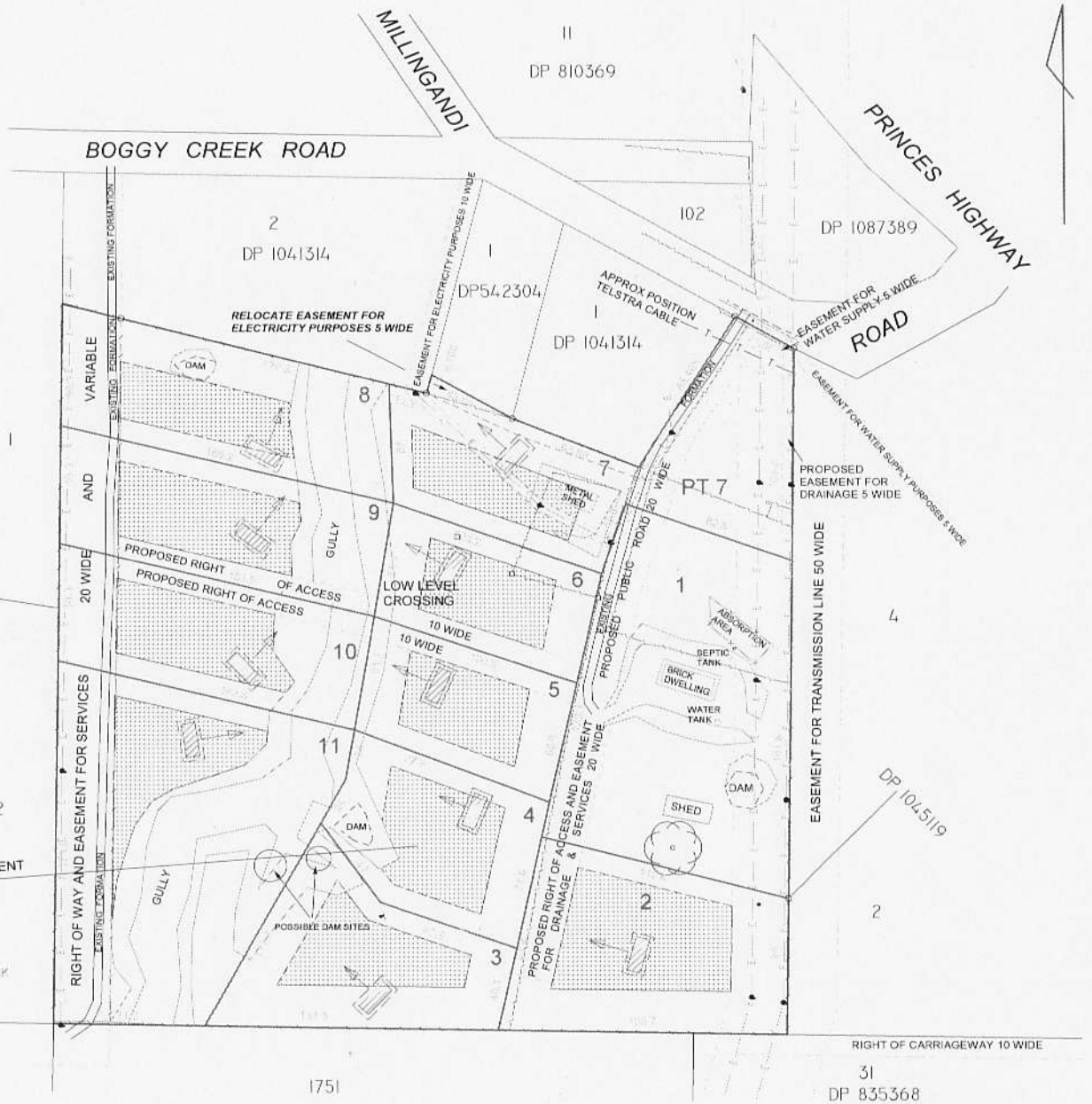
AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY.

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE.

STRUCTURES AND FEATURES SHOWN ON THIS PLAN ARE REPRESENTED AS INDICATIVE ONLY AND HAVE NOT BEEN LOCATED OR SHOWN FOR DESIGN OR CONSTRUCTION PURPOSES.

TYPICAL SITE DEVELOPMENT





Surveying & Valuations
PO BOX 638
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6490 1413
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

SCALE 1:1500 AT PAPER SIZE A2

REFERENCE: 0835 A8.4
Rev: 09.02.2009
Building envelopes created showing typical site development.

APPENDIX 8.5

PLAN OF PROPOSED SUBDIVISION & EXISTING SITE DETAIL

LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI

NOTES

NO SURVEY HAS BEEN MADE OF THE BOUNDARIES.

THE BOUNDARIES HAVE NOT BEEN MARKED.

AREAS AND DIMENSIONS ARE SUBJECT TO SURVEY.

CONTOUR INTERVAL 1.0 METRE

CONTOURS ARE INDICATIVE OF GROUNDFORM ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATION OF QUANTITIES WITH CAUTION.

NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE.

STRUCTURES AND FEATURES SHOWN ON THIS PLAN ARE REPRESENTED AS INDICATIVE ONLY AND HAVE NOT BEEN LOCATED OR SHOWN FOR DESIGN OR CONSTRUCTION PURPOSES.

SCALE 1:1500 AT PAPER SIZE A2

Surveying & Valuations

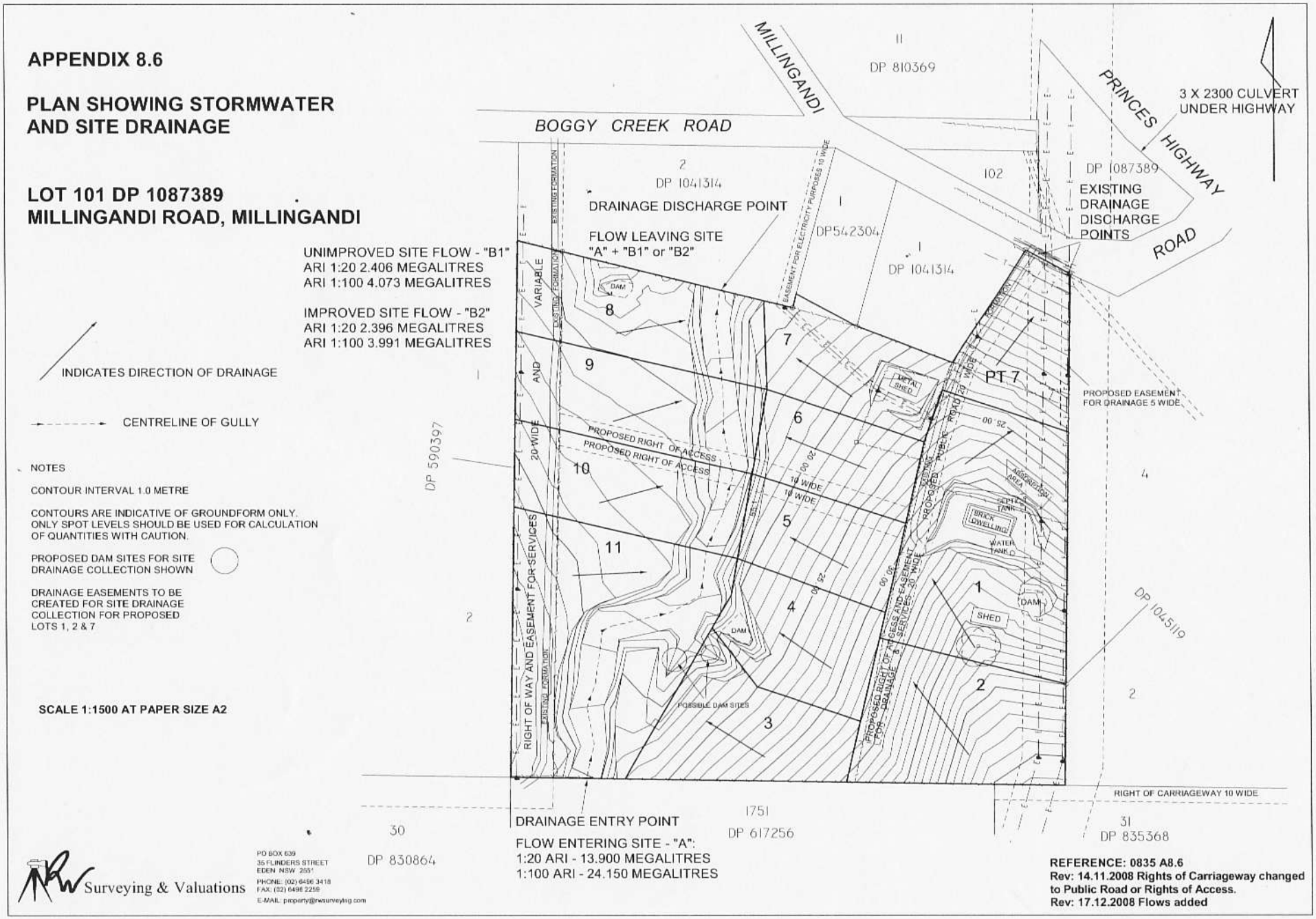
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

REFERENCE: 0835 A8.5
Rev: 09.02.2009
Proposed Right of Access amended to 20 metres wide. House sites & effluent envelopes removed.

APPENDIX 8.6

PLAN SHOWING STORMWATER AND SITE DRAINAGE

LOT 101 DP 1087389 MILLINGANDI ROAD, MILLINGANDI

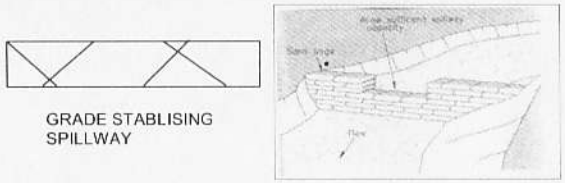


Surveying & Valuations
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

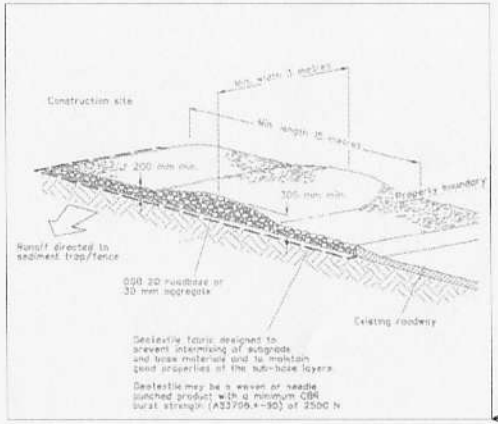
REFERENCE: 0835 A8.6
Rev: 14.11.2008 Rights of Carriageway changed to Public Road or Rights of Access.
Rev: 17.12.2008 Flows added

APPENDIX 8.7

PLAN SHOWING EROSION & SEDIMENT CONTROL LOT 101 DP 1087389 MILLINGANDI ROAD, MILLINGANDI



GRADE STABLISING SPILLWAY



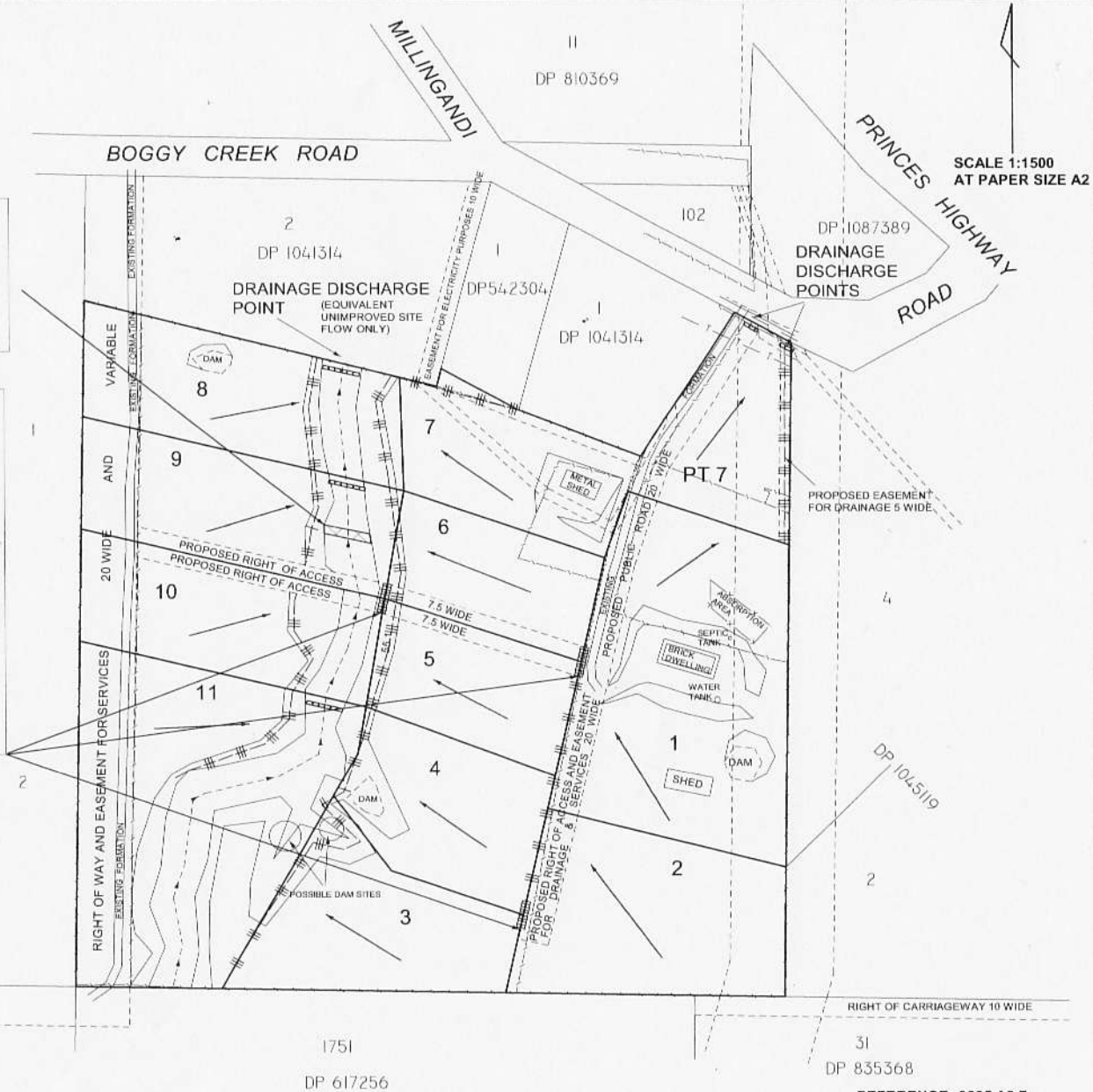
STABLISED SITE ACCESS

INDICATES DIRECTION OF DRAINAGE

CENTRELINE OF GULLY

SILT FENCING

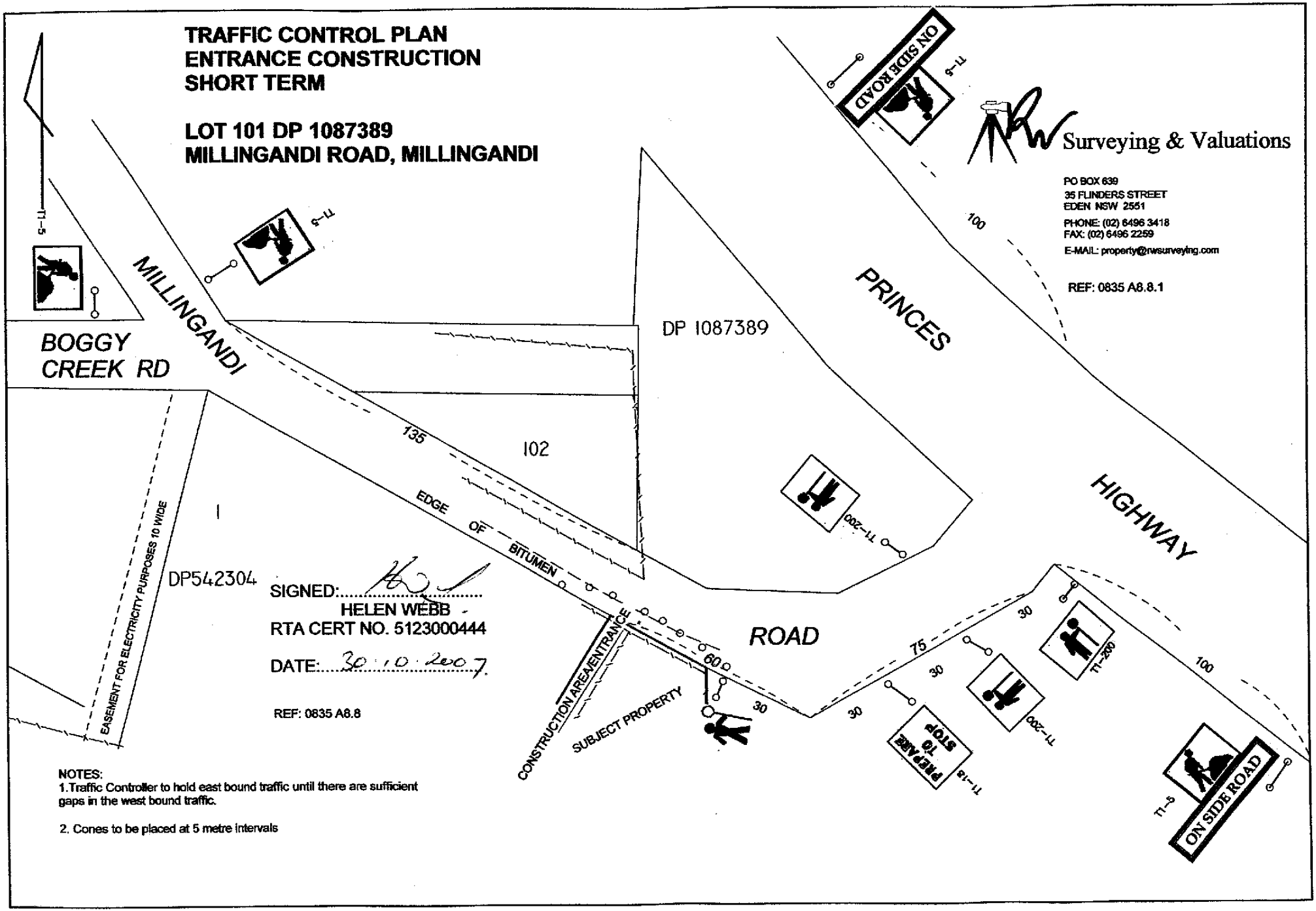
STRAW BALE & GEOTEXTILE SEDIMENT FILTER



RW Surveying & Valuations

PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

REFERENCE: 0835 A8.7
Rev: 14.11.2008
Rights of Carriageway changed to Public Road or Rights of Access.


TRAFFIC CONTROL PLAN
ENTRANCE CONSTRUCTION
SHORT TERM
LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI
Surveying & Valuations
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@nwsurveying.com
REF: 0835 A8.8.1
BOGGY CREEK RD
MILLINGANDI
PRINCES HIGHWAY
DP 1087389
102
135
100
EDGE OF BITUMEN
ROAD
DP542304
EASEMENT FOR ELECTRICITY PURPOSES 10 WIDE
CONSTRUCTION AREA/ENTRANCE
SUBJECT PROPERTY
60
75
30
ON SIDE ROAD
PREPARE TO STOP
SIGNED:
HELEN WEBB
RTA CERT NO. 5123000444
DATE: 30.10.2007
REF: 0835 A8.8
NOTES:
1.Traffic Controller to hold east bound traffic until there are sufficient gaps in the west bound traffic.
2. Cones to be placed at 5 metre intervals

TRAFFIC CONTROL DURING INTERNAL CONSTRUCTION

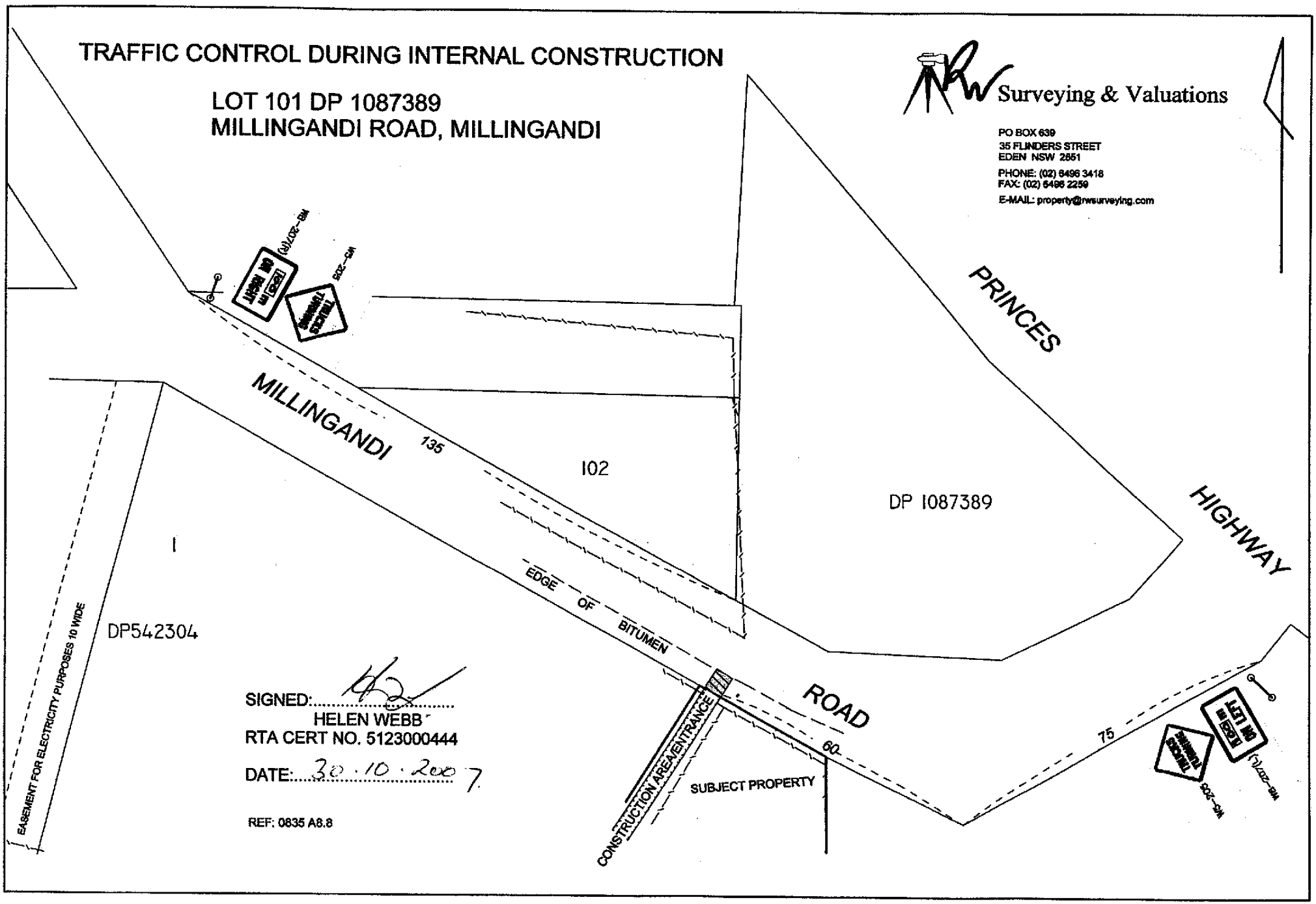
LOT 101 DP 1087389
MILLINGANDI ROAD, MILLINGANDI

Surveying & Valuations

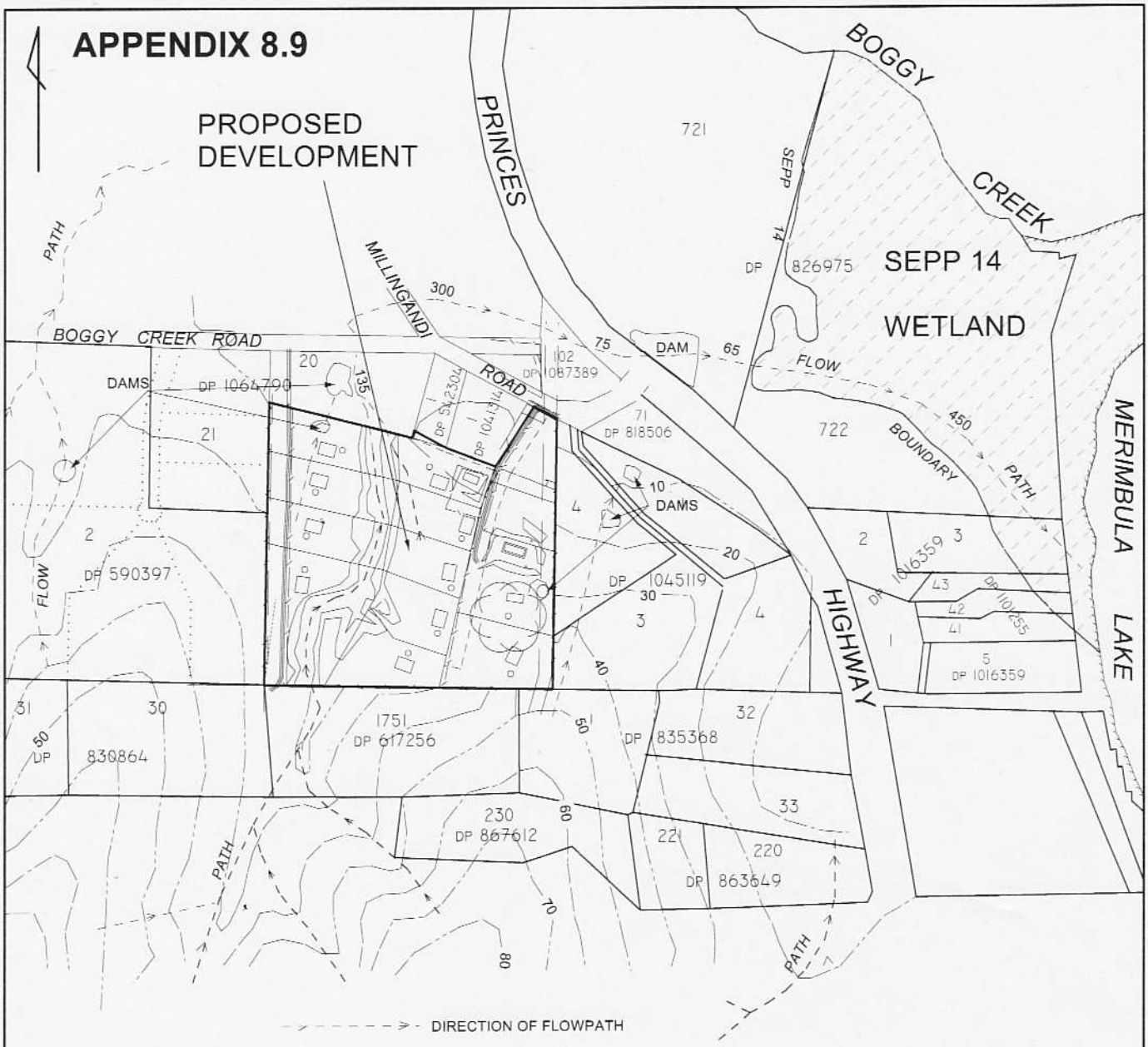
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2851

PHONE: (02) 6496 3418
FAX: (02) 6496 2259

E-MAIL: property@rwsurveying.com



APPENDIX 8.9



TYPICAL RAINWATER CONTROL FOR EACH HOME SITE

TANKS (90,000 LITRES) SHOWN TO SCALE - 7.5 METRE DIAMETER

PLAN SHOWING EXTENT
OF WATER CATCHMENT
AFFECTING LOT 101, DP 1087389
13 MILLINGANDI ROAD, MILLINGANDI

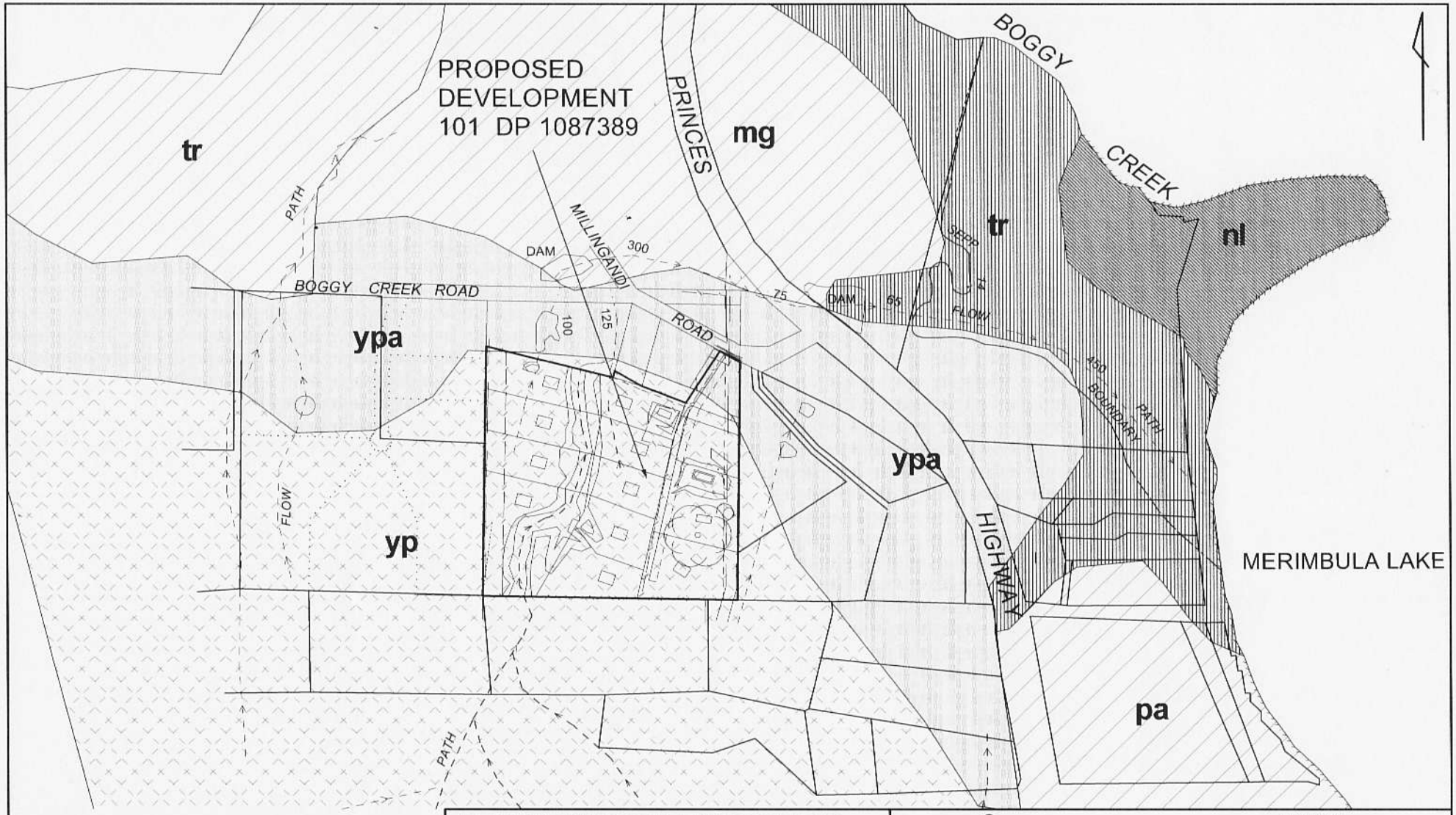
FOR G & K CLEMMENTS: OWNERS

RW Surveying & Valuations

PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

LEVEL DATUM	SCALE	DATE	DRN.	CHK.	SIZE
PAMBULA TOPOGRAPHICAL MAP 8824 - 25	1:5000	04.12.2008	HW	RW	A3

REFERENCE/DRAWING NAME		REV.
0835 W	SHEET 1 OF 1	1



FOR DETAILED DESCRIPTION OF SOIL LANDSCAPES SHOWN SEE:
"SOIL LANDSCAPES OF BEGA 1:100000 SHEET"
REPORT BY M.J. TULAU

PLAN SHOWING SOIL LANDSCAPE OF
LOT 101 DP 1087389
13 MILLINGANDI ROAD, MILLINGANDI
& SURROUNDING OCCUPATION

FOR G & K CLEMMENTS: OWNERS

Surveying & Valuations
PO BOX 639
35 FLINDERS STREET
EDEN NSW 2551
PHONE: (02) 6496 3418
FAX: (02) 6496 2259
E-MAIL: property@rwsurveying.com

LEVEL DATUM	SCALE	DATE	DRN.	CHK.	SIZE
N/A	1:5000	09.12.2008	HW	RW	A3

REFERENCE/DRAWING NAME		REV.
0835 S	SHEET 1 OF 1	O

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 387815.4 m² **0.387815 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.53 hrs
= **32 mins**

ARI **20** years

Hence:
Rainfall Intensity **I** **100** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 20 Rural **F** factor 1.12
C_{20} **67%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **7.239 m³ per sec**

CONCLUSION: The ARI 1:20 flow entering the subdivision is 7.239 m³ per sec

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 387815.4 m² **0.387815 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.5302628 hrs
= **32 mins**

ARI **100** years

Hence:
Rainfall Intensity **I** **140** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 100 Rural **F** factor 1.39
C_{100} **83%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in ha) = **12.578 m³ per sec**

CONCLUSION: The ARI 1:100 flow entering the subdivision is 12.578 m³ per sec

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 89378.4 m² **0.089 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.304 hrs
= **18 mins**

ARI **20** years

Hence:
Rainfall Intensity **I** **132** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 20 Rural **F** factor 1.12
C_{20} **67%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **2.202 m³ per sec**

Total water catchment over time of concentration: **2406.898 m³**

CONCLUSION:
The ARI 1:20 flow arising from the area of the subdivision while undeveloped is 2.202 m³ per sec producing 2406.898 m³ total runoff.

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A**	89378.4 m²		**0.089 km²**
Time of Concentration	$0.76A^{0.38}$		0.304 hrs
		=	**18 mins**
ARI	**100** years		

Hence:

Rainfall Intensity **I**	**180** mm per hour		(from Bureau of Meteorology chart attached)
Runoff Coefficient	C_{10}	60%	- Reference Fig 5.1 1987 AR&R
ARI 100 Rural **F** factor		1.39	
	C_{100}	**83%**	

Design Flow $Q = \frac{C \times I \times A}{360}$ = **3.727 m³ per sec**

Total water catchment over time of concentration: **4073.363 m³**

CONCLUSION:
The ARI 1:100 flow arising from the area of the subdivision while undeveloped is 3.727 m³ per sec producing 4073.363 m³ total runoff.

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Subdivision total land area		89378.4 m²	**0.089 km²**
Less:			
Sealed Road - Runoff Coefficient	0.85	1360 m²	
Gravel Road - Runoff Coefficient	0.70	1365 m²	
10 Proposed dwellings - Runoff Coefficient	1.00	3000 m²	
Catchment area **A**		83653.4 m²	**0.084 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.296 hrs
= **18 mins**

ARI **20** years

Hence:
Rainfall Intensity **I** **132** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 20 Rural **F** factor 1.12
C_{20} **67%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **2.061 m³ per sec**

Total water catchment over time of concentration: **2196.768 m³**

Design Flow from built environment

Sealed Road		**0.04239**
Gravel Road		**0.03504**
10 Proposed dwellings		**0.11000**
	Total	**0.18742 m³ per sec**

Total water catchment over time of concentration: **199.747 m³**

CONCLUSION:
The ARI 1:20 flow arising from the undeveloped part of the subdivision is 2.061 m³ per sec producing 2196.768 m³ total runoff. The ARI 1:20 flow arising from the proposed built environment in the subdivision is 0.18742 m³ per sec producing 199.747 m³ total runoff.

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Subdivision total land area		89387.4 m²	**0.089387 km²**
Less:			
Sealed Road - Runoff Coefficient	0.85	1360 m²	
Gravel Road - Runoff Coefficient	0.70	1365 m²	
10 Proposed dwellings - Runoff Coefficient	1.00	3000 m²	
Catchment area **A**		83662.4 m²	**0.083662 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.2960568 hrs
= **18 mins**

ARI **100** years

Hence:
Rainfall Intensity **I** **180** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 100 Rural **F** factor 1.39
C_{100} **83%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **3.489 m³ per sec**

Total water catchment over time of concentration: **3718.296 m³**

Design Flow from built environment

Sealed Road		**0.05780**
Gravel Road		**0.04778**
10 Proposed dwellings		**0.15000**
	Total	**0.25558 m³ per sec**

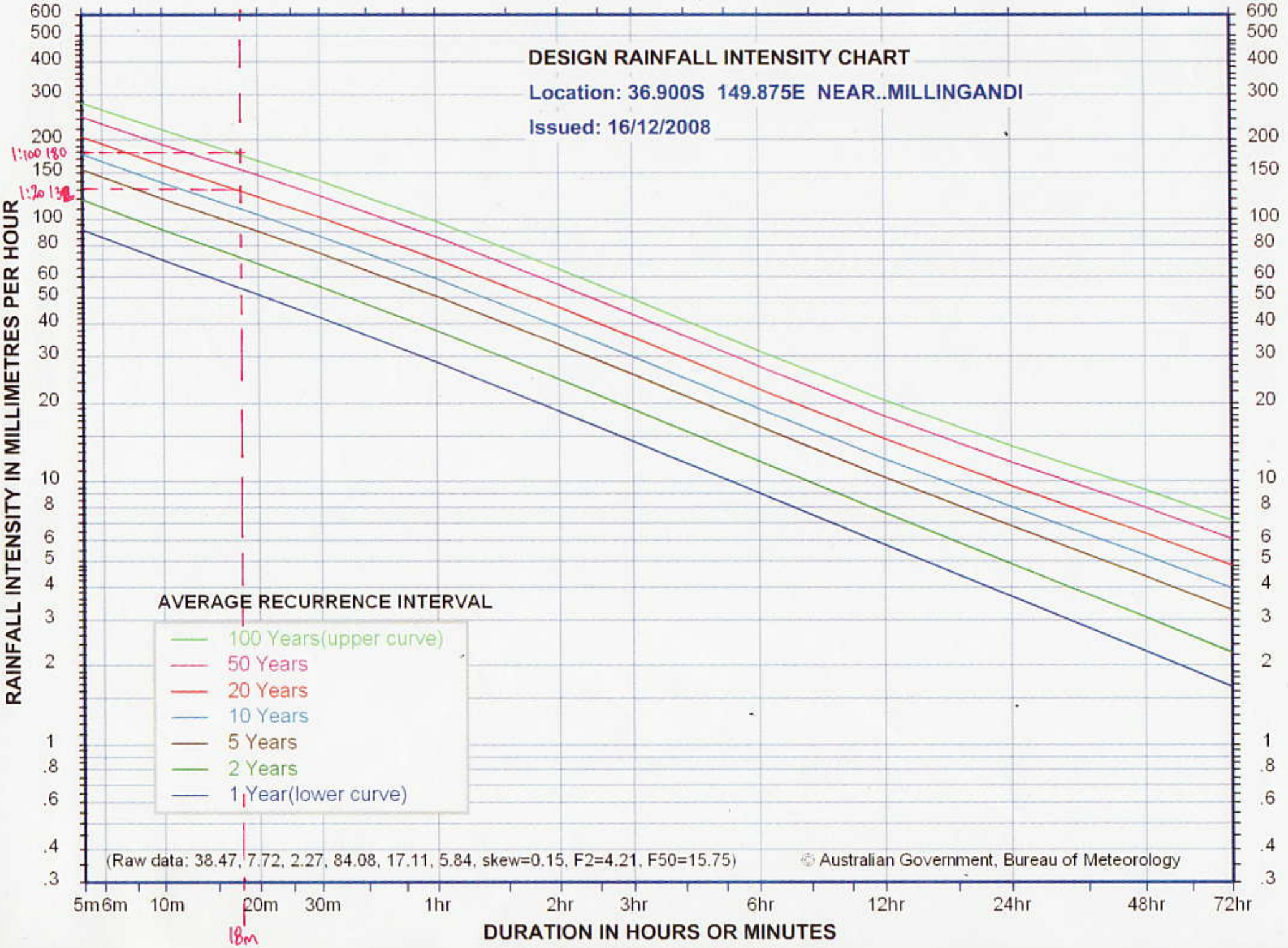
Total water catchment over time of concentration: **272.393 m³**

CONCLUSION:
The ARI 1:100 flow arising from the undeveloped part of the subdivision is 3.489 m³ per sec producing 3718.296 m³ total runoff. The ARI 1:100 flow arising from the proposed built environment in the subdivision is 0.25558 m³ per sec producing 272.393 m³ total runoff.

Design certified by:

---------- Date: ----------

Robert Gordon Webb
Registered Surveyor


DESIGN RAINFALL INTENSITY CHART
Location: 36.900S 149.875E NEAR..MILLINGANDI
Issued: 16/12/2008
1:100 180
1:20 13
RAINFALL INTENSITY IN MILLIMETRES PER HOUR
600
500
400
300
200
150
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
.8
.6
.4
.3
AVERAGE RECURRENCE INTERVAL
100 Years(upper curve)
50 Years
20 Years
10 Years
5 Years
2 Years
1 Year(lower curve)
(Raw data: 38.47, 7.72, 2.27, 84.08, 17.11, 5.84, skew=0.15, F2=4.21, F50=15.75)
© Australian Government, Bureau of Meteorology
5m 6m 10m 20m 30m 1hr 2hr 3hr 6hr 12hr 24hr 48hr 72hr
18m
DURATION IN HOURS OR MINUTES

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 511443 m² **0.511 km²**

Time of Concentration $0.76A^{0.38}$ 0.589 hrs
= **35 mins**

ARI **20** years

Hence:
Rainfall Intensity **I** **95** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 20 Rural **F** factor 1.12
C_{20} **67%**

Design Flow $Q = \frac{C \times I \times A}{360}$ = **9.070 m³ per sec**

Existing Pipe parameters

	Pipe 1	Pipe 2
Length	9.60	9.60
Slope **S**	**1.000%**	**1.000%**

From Manning's equation $D = \left[\frac{Q}{25.97 \times \sqrt{S}} \right]^{3/8}$

Required diameter for Design Flow (m)	**1.232**	**1.232**
Existing Pipe diameter (m)	**0.450**	**0.450**

CONCLUSION: The existing pipes are not sufficient for an ARI 1:20 rainfall event

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 511443 m² **0.511 km²**

Time of Concentration $0.76A^{0.38}$ 0.589 hrs
= **35 mins**

ARI **100** years

Hence:
Rainfall Intensity **I** **132** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 100 Rural **F** factor 1.39
C_{100} **83%**

Design Flow $Q = \frac{C \times I \times A}{360}$ = **15.640 m³ per sec**

Existing Pipe parameters

	Pipe 1	Pipe 2
Length	9.60	9.60
Slope **S**	**1.000%**	**1.000%**

From Manning's equation $D = \left[\frac{Q}{25.97 \times \sqrt{S}} \right]^{3/8}$

Required diameter for Design Flow (m)	**1.512**	**1.512**
Existing Pipe diameter (m)	**0.450**	**0.450**

CONCLUSION: The existing pipes are not sufficient for an ARI 1:100 rainfall event

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 512443 m² **0.512 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.589 hrs
= **35 mins**

ARI **20** years

Hence:
Rainfall Intensity **I** **95** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 20 Rural **F** factor 1.12
C_{20} **67%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **9.087 m³ per sec**

Existing Pipe parameters

Length	9.60
Slope **S**	**1.000%**

From Manning's equation $D = \left[\frac{Q}{25.97 \times \sqrt{S}} \right]^{3/8}$

Required diameter for Design Flow (m) **1.600**

Existing Pipe diameter (m) **0.600**

CONCLUSION: The existing pipe is not sufficient for an ARI 1:20 rainfall event

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor

Surveying & Valuations

WATER QUALITY ASSESSMENT - BOGGY CREEK ROAD, MILLINGANDI **JOB No: 0835**

Rural catchment flow analysis
Calculation basis: Rural Catchment Flows - Chapter 5 AR&R

Catchment area **A** 512443 m² **0.512443 km²**

Time of Concentration $0.76A^{0.38}$ (A in km²) = 0.5894933 hrs
= **35 mins**

ARI **100** years

Hence:
Rainfall Intensity **I** **132** mm per hour (from Bureau of Meteorology chart attached)

Runoff Coefficient C_{10} 60% - Reference Fig 5.1 1987 AR&R

ARI 100 Rural **F** factor 1.39
C_{100} **83%**

Design Flow $Q = \frac{C \times I \times A}{360}$ (A in **ha**) = **15.671 m³ per sec**

Existing Pipe parameters

Length	9.60
Slope **S**	**1.000%**

From Manning's equation $D = \left[\frac{Q}{25.97 \times \sqrt{S}} \right]^{3/8}$

Required diameter for Design Flow (m) **1.962**

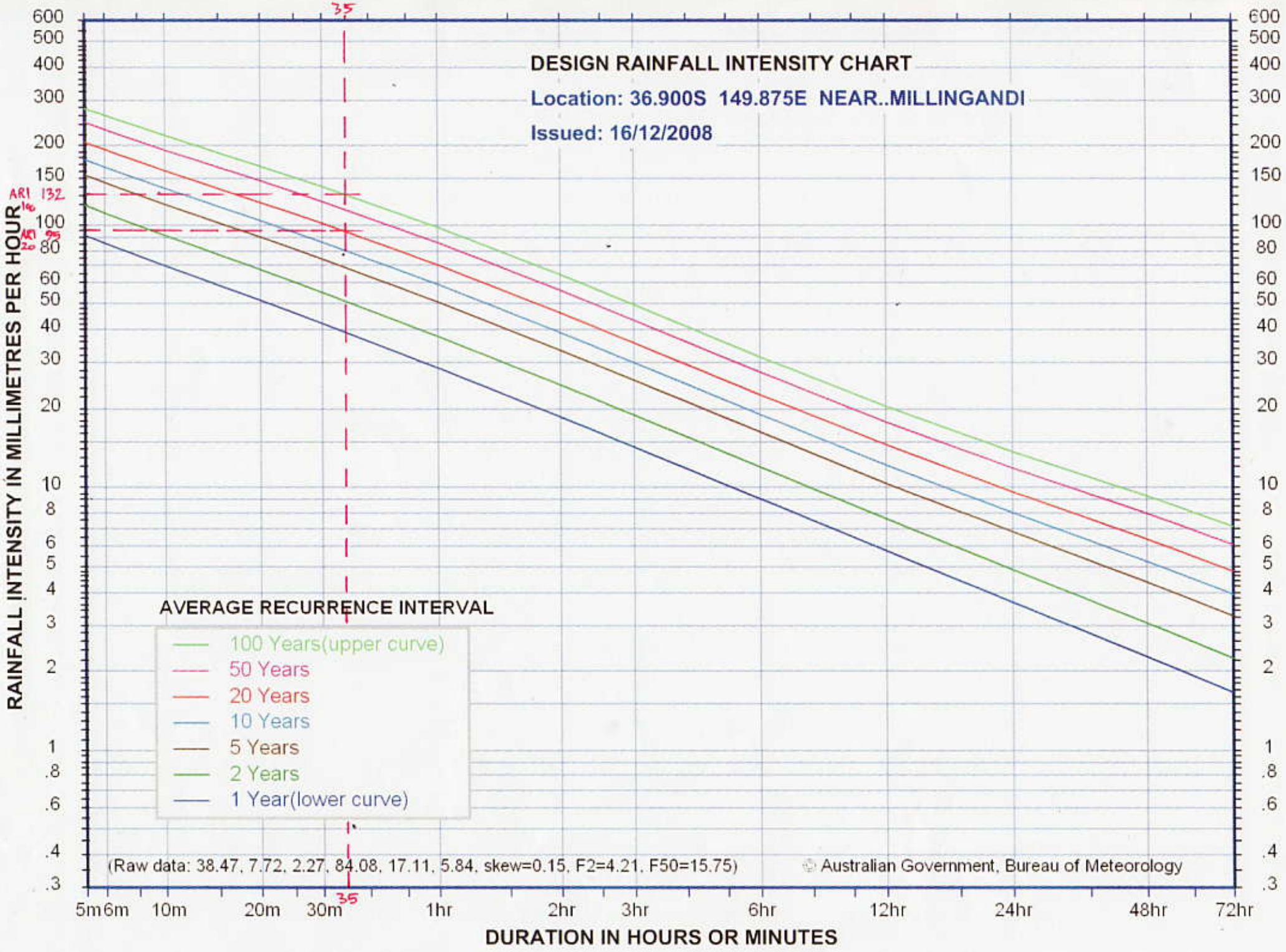
Existing Pipe diameter (m) **0.600**

CONCLUSION: The existing pipe is not sufficient for an ARI 1:100 rainfall event

Design certified by:

..... Date: .....

Robert Gordon Webb
Registered Surveyor


DESIGN RAINFALL INTENSITY CHART
Location: 36.900S 149.875E NEAR..MILLINGANDI
Issued: 16/12/2008
RAINFALL INTENSITY IN MILLIMETRES PER HOUR
DURATION IN HOURS OR MINUTES
600
500
400
300
200
150
100
80
60
50
40
30
20
10
8
6
5
4
3
2
1
.8
.6
.4
.3
5m
6m
10m
20m
30m
1hr
2hr
3hr
6hr
12hr
24hr
48hr
72hr
35
ARI 132
ARI 95
AVERAGE RECURRENCE INTERVAL
100 Years(upper curve)
50 Years
20 Years
10 Years
5 Years
2 Years
1 Year(lower curve)
(Raw data: 38.47, 7.72, 2.27, 84.08, 17.11, 5.84, skew=0.15, F2=4.21, F50=15.75)
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