

CATCHMENT	2 YEAR		5 YEAR		10 YEAR		20 YEAR		50 YEAR		100 YEAR		PMF Dev. m ³ /s
	Exist. m ³ /s	Dev. m ³ /s	Exist. m ³ /s	Dev. m ³ /s	Exist. m ³ /s	Dev. m ³ /s	Exist. m ³ /s	Dev. m ³ /s	Exist. m ³ /s	Dev. m ³ /s	Exist. m ³ /s	Dev. m ³ /s	
5/2 NO BASIN	0.524	0.547	0.86	0.89	1.08	1.12	1.37	1.41	1.65	1.70	1.95	1.99	7.25
5/2 WITH BASIN		0.49		0.62		0.814		1.09		1.40		1.72	
1/6	6.47	6.50	11.74	11.75	14.78	14.82	18.52	18.55	21.14	21.18	24.43	24.47	90.7
1/8	8.423	8.47	15.28	15.31	19.09	19.12	24.33	24.36	28.39	28.45	33.50	33.56	128.4
1/9	8.993	9.05	16.11	16.18	20.85	20.92	26.42	26.50	31.11	31.22	36.74	36.84	139.2
1/9 WITH BASIN		8.98		15.91		20.40		25.91		30.69		36.38	

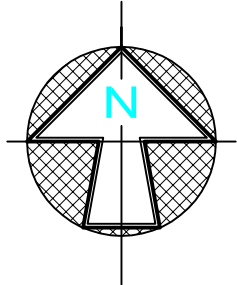
CATCHMENT SUMMARY

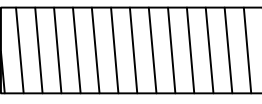
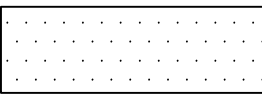
CURRENT CONDITIONS					
CATCHMENT	AREA (ha)	% IMPERVIOUS	AREA IMPERVIOUS (ha)	AREA PERVIOUS (ha)	TOTAL CATCHMENT AREA (ha)
5/2 OLD RESIDENTIAL	0.677	60.000	0.406	0.271	
5/2 RURAL RESIDENT.	3.515	N/A	0.503	3.012	4.192
1/6 RURAL RES.	3.8610	10	0.3861	3.4750	3.8610
1/8 RURAL RES.	9.5850	N/A	0.3020	9.2830	9.5850
1/9 RURAL RES	2.8850	10	0.2890	2.5970	2.8850
POST DEVELOPMENT CONDITIONS					
5/2 OLD RESIDENTIAL	0.677	60.000	0.406	0.271	
5/2 RURAL RES.	3.5150	N/A	0.8930	2.6220	4.192
1/6 RURAL RES.	3.7620	N/A	0.3861	3.3760	
1/6 BARNES RD	0.0990	100	0.0990	0	3.8610
1/8 RURAL RES.	9.4970	N/A	0.3020	9.1950	
1/8 BARNES RD	0.0880	100	0.0880	0	9.5850
1/9 RURAL RES.	2.8850	10	0.2890	2.5970	2.8850

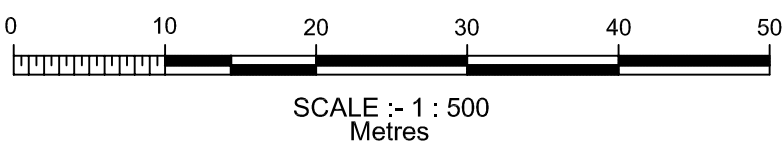
Issue	App	Date	Description	Client:	Datum : AHD	 Development Consultants	John M. Daly & Associates PTY LTD A.B.N. 88051977989		Project : LOT 1113 DP752038 BARNES RD - PROPOSED AGED CARE FACILITY		Sheet 1 of 3 sheets
				DUKOR 24 Pty. Limited	Origin of Levels :		Surveying Engineering Project Management Licensed Water Service Co ordinators 32 Iolanthe Street P.O. BOX 25 CAMPBELL TOWN N.S.W. 2560 email: admin@jmd.com.au PH. (02) 4625 5055 FAX (02) 4628 2013		STORMWATER STRATEGY - LOCAL CATCHMENT PLAN		Ref: 12253(B)E1
				Designed by : T.H.							
				Date of Drawing : 11-07-2014							
A	T.H.	11-07-2014	ORIGINAL ISSUE	Ratio (A1) : 1:2500	Date of Survey :		Locality : FRENCHS FOREST		L.G.A. : WARRINGAH	CAD Ref: S:\DATA\OXFORD FALLS\12253(B)\ENG\CAD\E1-SWD STRAT\12253(B)E1_CATCHMENT	

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TOTAL IMPERVIOUS AREA
- EXISTING CONDITIONS 5032 m³



-  EXISTING IMPERVIOUS SURFACE - ROADS/TRACKS
-  EXISTING IMPERVIOUS SURFACE - BUILDINGS & TENNIS COURT



Issue	App	Date	Description	Client:	Datum : AHD		John M. Daly & Associates PTY LTD A.B.N. 88051977989 Surveying Engineering Project Management Licensed Water Service Co ordinators 32 Iolanthe Street P.O. BOX 25 CAMPBELL TOWN N.S.W. 2560 PH. (02) 4625 5055 FAX (02) 4628 2013 email: admin@jmd.com.au	Project : LOT 1113 DP752038 BARNES RD - PROPOSED AGED CARE FACILITY			Sheet 2 of 3 sheets
				DUKOR 24 Pty. Limited	Origin of Levels :			STORMWATER STRATEGY - PLAN OF EXISTING SURFACE CONDITIONS			Ref: 12253(B)E1
				Designed by : T.H.							
				Date of Drawing : 11-07-2014							
A	T.H.	11-07-2014	ISSUED FOR DA	Ratio (A1) : 1:500	Date of Survey :			Locality : FRENCHS FOREST		L.G.A. : WARRINGAH	CAD Ref: S:\DATA\OXFORD FALLS\12253(B)\ENG\CAD\E1-SWD STRAT\12253(B)E1_EXIST

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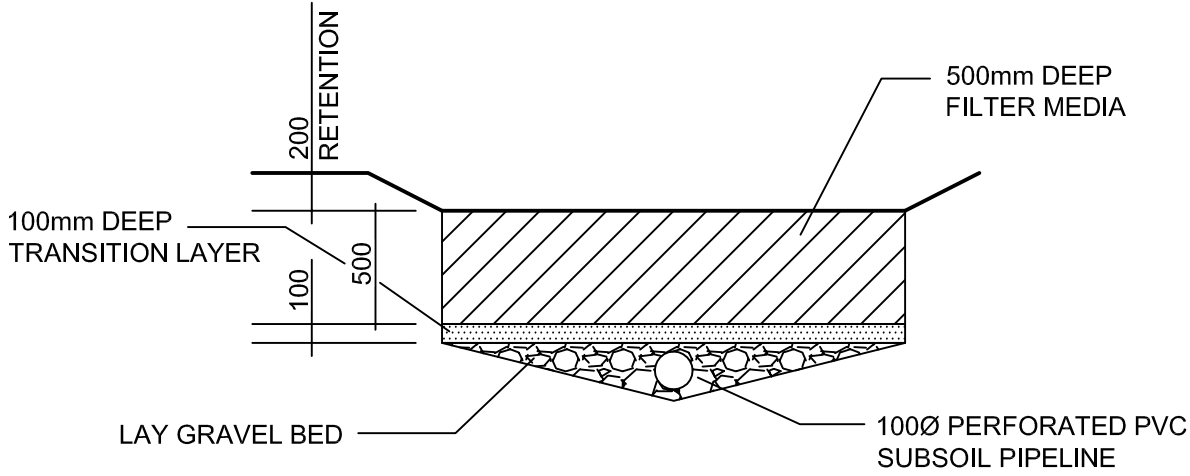
TOTAL IMPERVIOUS AREA
- POST DEVELOPMENT CONDITIONS 8930 m²

TAILOUT CONSTRUCTION TO BE CLEAR
OF CREEK RIPARIAN ZONE

FORM GRASSED DIVERSION SWALE TO
INTERCEPT ALL UPSTREAM STORMWATER
RUNOFF & DIRECT FLOWS TO RAIN GARDEN
& DETENTION BASIN

PROPOSED ACCESS ROAD TO BE
DRAINED TO PROPOSED RAIN GARDEN

EXISTING BUILDING STRUCTURES
TO BE RETAINED

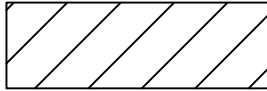


RAINGARDEN TYPICAL SECTION
NOT TO SCALE

ALL ROOF DISCHARGES TO BE
INTERCEPTED BY PIPELINE & DRAINED TO
150KL STORAGE TANK. OVERFLOWS FROM
TANK TO BE DIRECTED TO PROPOSED RAIN
GARDEN AND DETENTION BASIN.

PROPOSED BUILDING EXTENSION & ROOF OVER

PROPOSED CAR PARKING AREA



IMPERVIOUS PAVED SURFACES RESULTING FROM
NEW DEVELOPMENT (OTHER THAN BUILDINGS)

BASIN CONTROL OUTLET PIT
LOW LEVEL 5 YEAR ORIFICE PIPE OUTLET
HIGH LEVEL 100 YEAR WEIR OUTLET
OUTLET PIPE TO BE SIZED TO DISCHARGE
100 YEAR PREDEVELOPED FLOWS

3m WIDE BASIN
EMBANKMENT TO
CONTAIN
POST DEVELOPMENT
STORAGE VOLUME &
20% ADDITIONAL
STORAGE FREEBOARD.

FORM RAINGARDEN (Min. BED AREA 350 m²)
DISCHARGE DIRECTED TO OSD BASIN

FORM GRASSED DIVERSION SWALE TO
INTERCEPT ALL UPSTREAM STORMWATER
RUNOFF & DIRECT FLOWS TO RAIN GARDEN AND
DETENTION BASIN

ALL STORMWATER FLOWS DIRECTED
TO RAINGARDEN

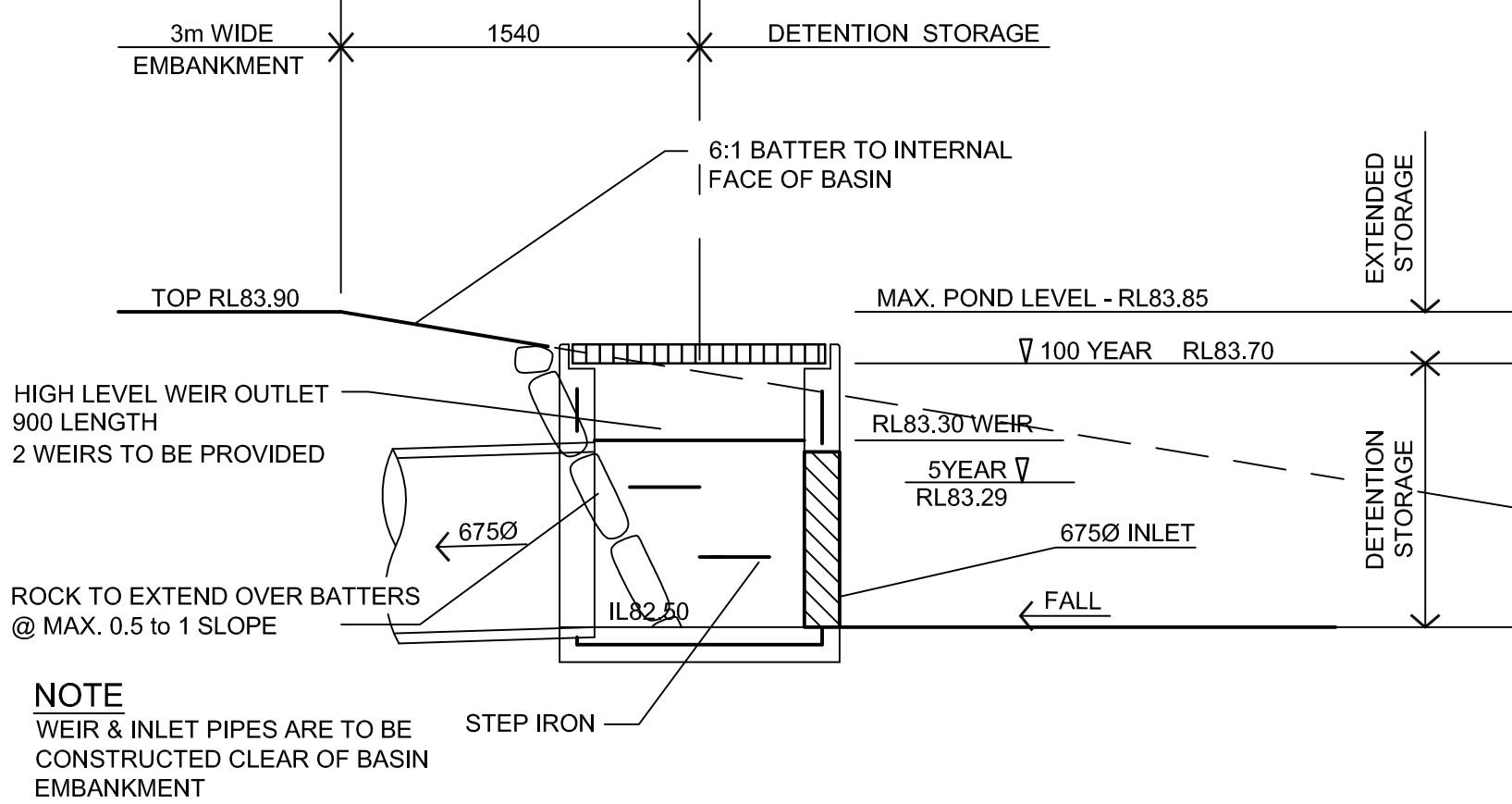
STORMWATER FROM NEW DRIVEWAYS
TO BE DIRECTED TO DETENTION BASIN

STORMWATER DETENTION BASIN

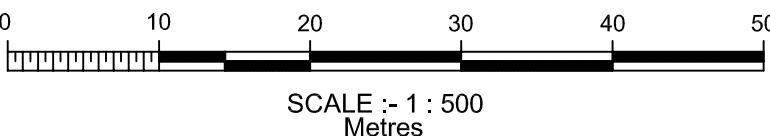
MAXIMUM PRE-DEVELOPED DISCHARGE
5 YEAR 860 l/sec
100 YEAR 1949 l/sec

BASIN CONFIGURATION
FLOOR 3x25 76m² RL82.50
BATTER SLOPES 6:1

5 YEAR WATER LEVEL RL83.29
100 YEAR WATER LEVEL RL83.70



DISCHARGE CONTROL PIT DETAIL
NOT TO SCALE



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				Designed by : T.H.	Origin of Levels :						
				Date of Drawing : 11-07-2014							
A	T.H.	11-07-2014	ISSUED FOR DA	Ratio (A1) : 1:500	Date of Survey :						

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