
ANNEXURE 8

PROPOSED RESIDENTIAL DEVELOPMENT

14-18 BOONDAH ROAD

WARRIEWOOD

DRAWING LIST

GENERAL

75W C201 COVER SHEET
75W C202 NOTES AND LEGENDS
75W C203 GENERAL ARRANGEMENT PLAN

ROADWORKS

75W C210 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1
75W C211 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 2
75W C212 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 3
75W C214 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 5
75W C215 ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 6

LONGITUDINAL SECTIONS

75W C217 ROAD LONGITUDINAL SECTIONS SHEET 2

SETOUT

75W C220 SETOUT PLAN SHEET 1

INTERSECTIONS

75W C230 INTERSECTION LAYOUT PLAN AND KERB RETURN PROFILES SHEET 1
75W C231 INTERSECTION LAYOUT PLAN AND KERB RETURN PROFILES SHEET 2

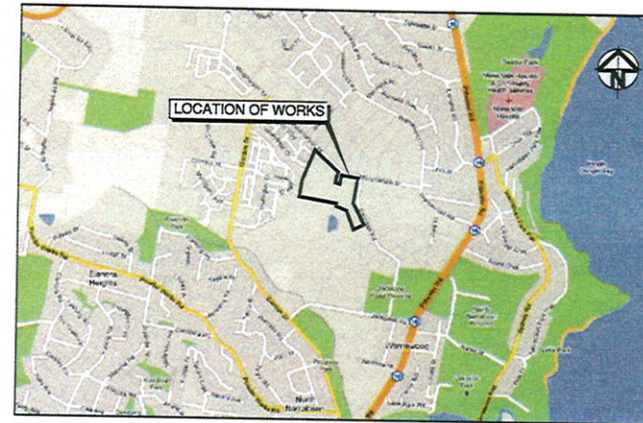
75W C234 INTERSECTION LAYOUT PLAN AND KERB RETURN PROFILES SHEET 5

BIO RETENTION BASINS

75W C240 BIO RETENTION BASIN A DETAIL PLAN
75W C242 BIO RETENTION BASINS SECTIONS AND DETAILS

PAVEMENT

75W C260 PAVEMENT PLAN SHEET 1
75W C261 PAVEMENT PLAN SHEET 2
75W C263 PAVEMENT PLAN SHEET 4



LOCALITY PLAN
N.T.S.

SECTION 75w - MODIFICATION

TO PROJECT APPROVAL (MP10_0177)

COUNCIL APPROVAL REFERS TO
EXTERNAL WORKS ONLY

		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client	MERITON APARTMENTS PTY LTD		Scale	NTS	Drawn	TS	Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD	Civil Engineers and Project Managers Suite 702, 6A Glen Street Millsom Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2488 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au		Status FOR APPROVAL	A1			
			Scale Bar	Grid	Checked	PH	Height	AHD	Approved						AM	Title COVER SHEET	
A	ISSUED FOR APPROVAL	25/12/11															
Issue	Description	Date															

BULK EARTHWORKS NOTES

- ORIGIN OF LEVELS: REFER SURVEY NOTES
- STRIP ALL TOPSOIL AND/OR EXISTING MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCKPILE AS DIRECTED BY SUPERINTENDENT
- EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS $\pm 2\%$ OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH AS 1995.5.2.1
- COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	STANDARD DENSITY (AS 1289.5.2.1)
UNDER BUILDING SLABS ON GROUND	98%
UNDER ROADS AND CARPARKS	98%
LANDSCAPED AREAS UNLESS NOTED OTHERWISE	95%
- FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX
- BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (160 kN) DRY WEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER)
- FREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN:

(A) 1 TEST PER 200m ² OF FILL PLACED PER 100mm LAYER OF FILL	
(B) 3 TESTS PER VISIT	
(C) 1 TEST PER 1000m ² OF EXPOSED SUBGRADE	

 TESTING SHALL BE "LEVEL" TESTING IN ACCORDANCE WITH AS 3798 (1996)
- FILLING TO BE PLACED AND COMPACTED IN MAXIMUM 150mm LAYERS
- NO FILLING SHALL TAKE PLACE TO EXPOSE SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF AT LEAST 100mm OF FILL AND APPROVAL GIVEN IN WRITING THAT FILLING CAN PROCEED

EMBANKMENT CONSTRUCTION SEQUENCE

- STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FORM GROUND
- CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK
- IN THE CASE WHERE THE EMBANKMENT AREAS SLUSH, GROUTING AND DENTAL CONCRETE MAY BE REQUIRED, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER
- COMPACT CLAY STABILIZED WITH GYPSUM (3% BY DRY MASS, MINIMUM AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER) INTO THE CUT-OFF TRENCH OR LAYERS NOT EXCEEDING 50mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.9) AND AT A MOISTURE CONTENT OF $\pm 2\%$ TO $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT
- GYPSUM STABILIZED NATURAL SOILS OF OPTIMUM MOISTURE CONTENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR 98% ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER
- CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.9) AND AT A MOISTURE CONTENT OF $\pm 2\%$ TO $\pm 2\%$ OF OPTIMUM MOISTURE CONTENT. IF SHORNGAGE OCCURS, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER
- OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED
- TRIM THE EMBANKMENT BATTERS TO THE OVERFILLED MATERIAL, STABILIZE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD $\pm 2\%$ TO $\pm 2\%$ OMC
- PLACE ROCK RIP-RAP AS SHOWN
- RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A 10% COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS
- WATER AND FERTILIZE LANDSCAPE AS REQUIRED BY CLIMATIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL
- AT THE COMPLETION OF WORK WRITTEN CONFIRMATION & CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED & EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS

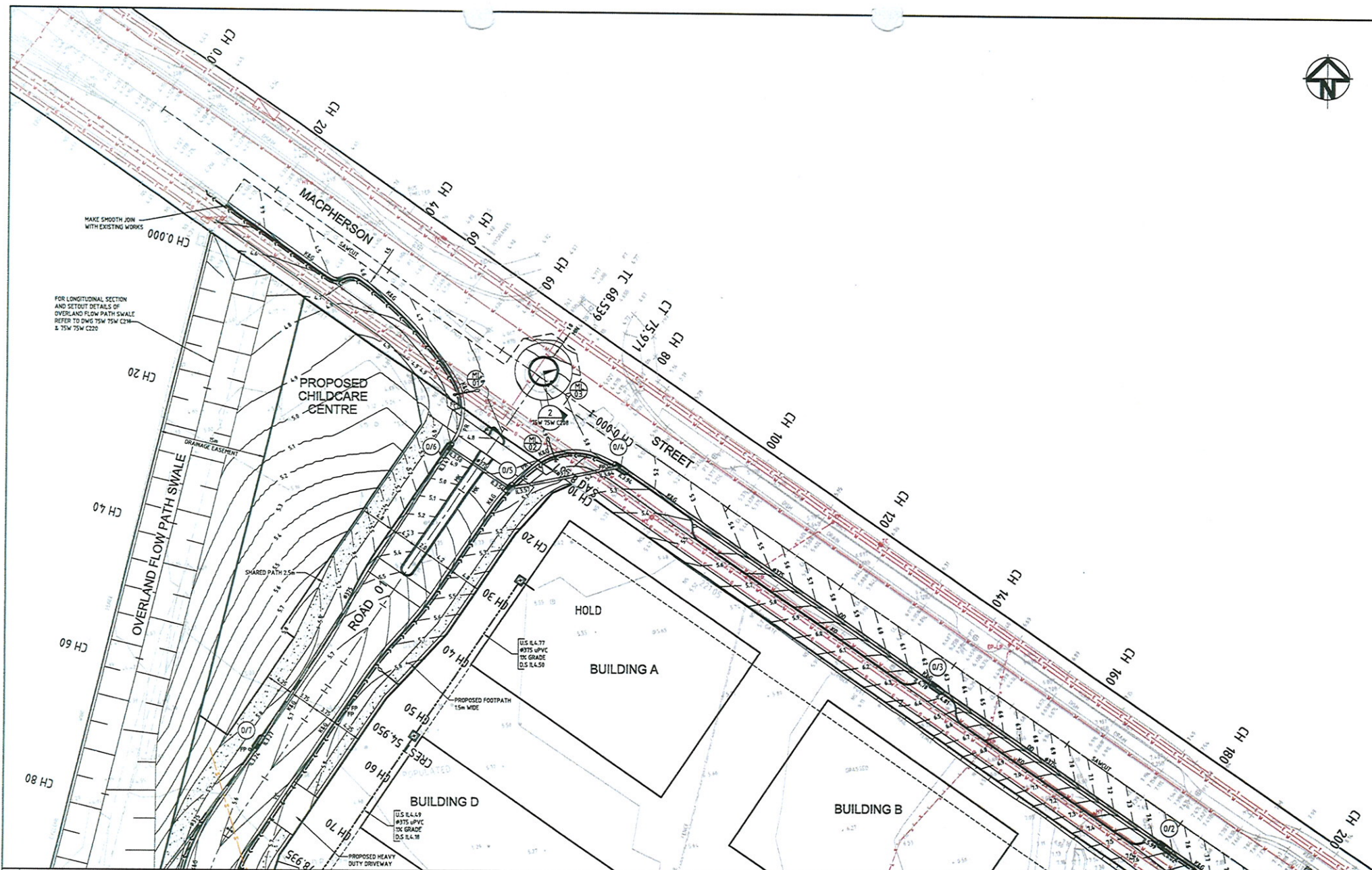
SITEWORKS NOTES

- ORIGIN OF LEVELS - REFER SURVEY NOTES
- CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L
- MAKE SMOOTH CONNECTION WITH EXISTING WORKS
- ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL
- ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE, WHERE PIPE IS UNDER ANY FINISHED SURFACE. THE REMAINING 150mm UNDER PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL. COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1
- Provide 100mm wide EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS
- ASPHALTIC CONCRETE SHALL CONFORM TO R.T.A. SPECIFICATION R116
- ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 (UNDOUBLED) R.T.A. FORM 3052 (BUNDLED) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289.5.2.1
- ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.T.A. FORM 3051 AND 3052.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289.5.2.1
- AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE COURSE, A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.T.A. FORM 3051 AND 3052.1 MAY BE CONSIDERED SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L
- SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED
- WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS

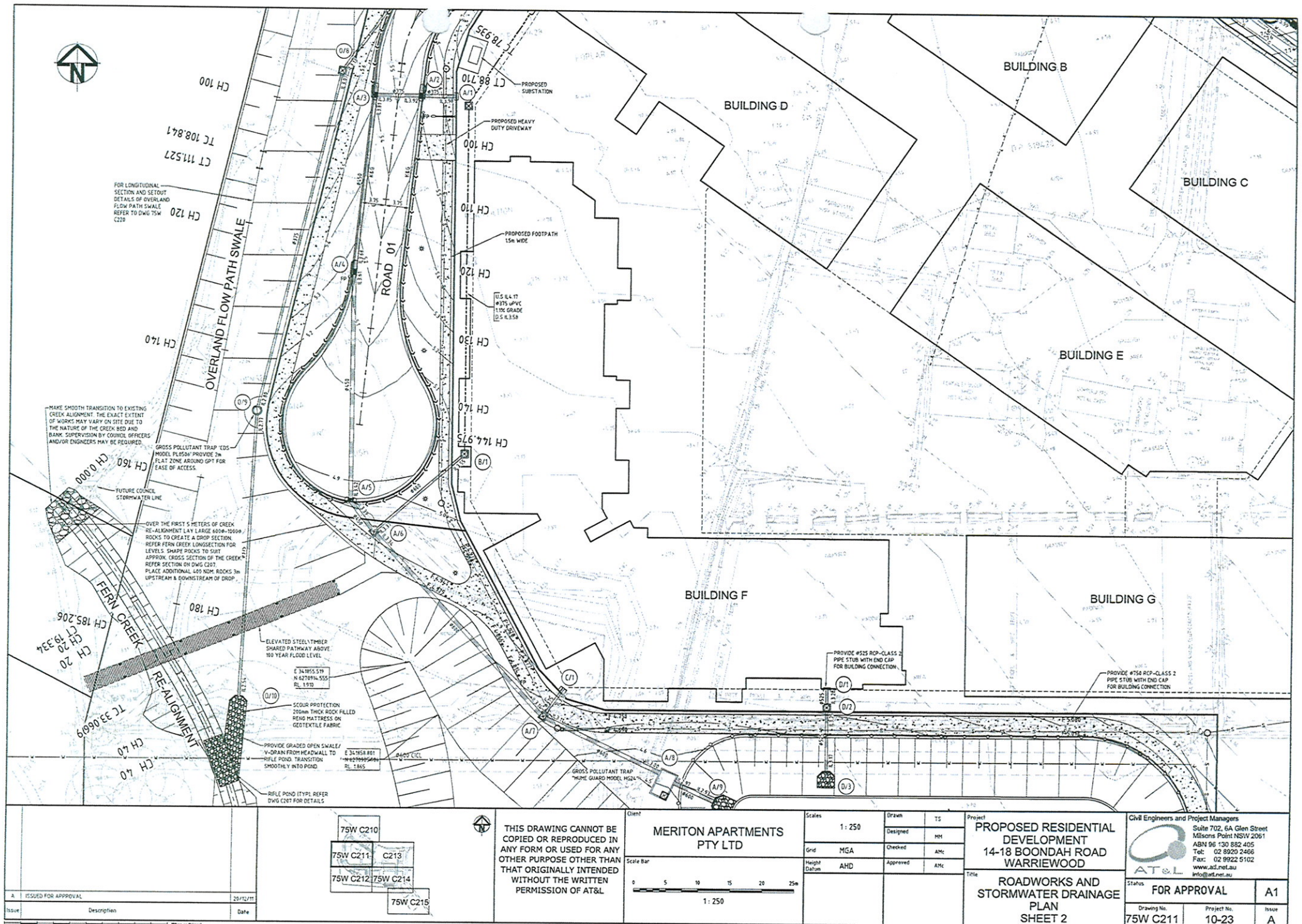
STORMWATER DRAINAGE NOTES

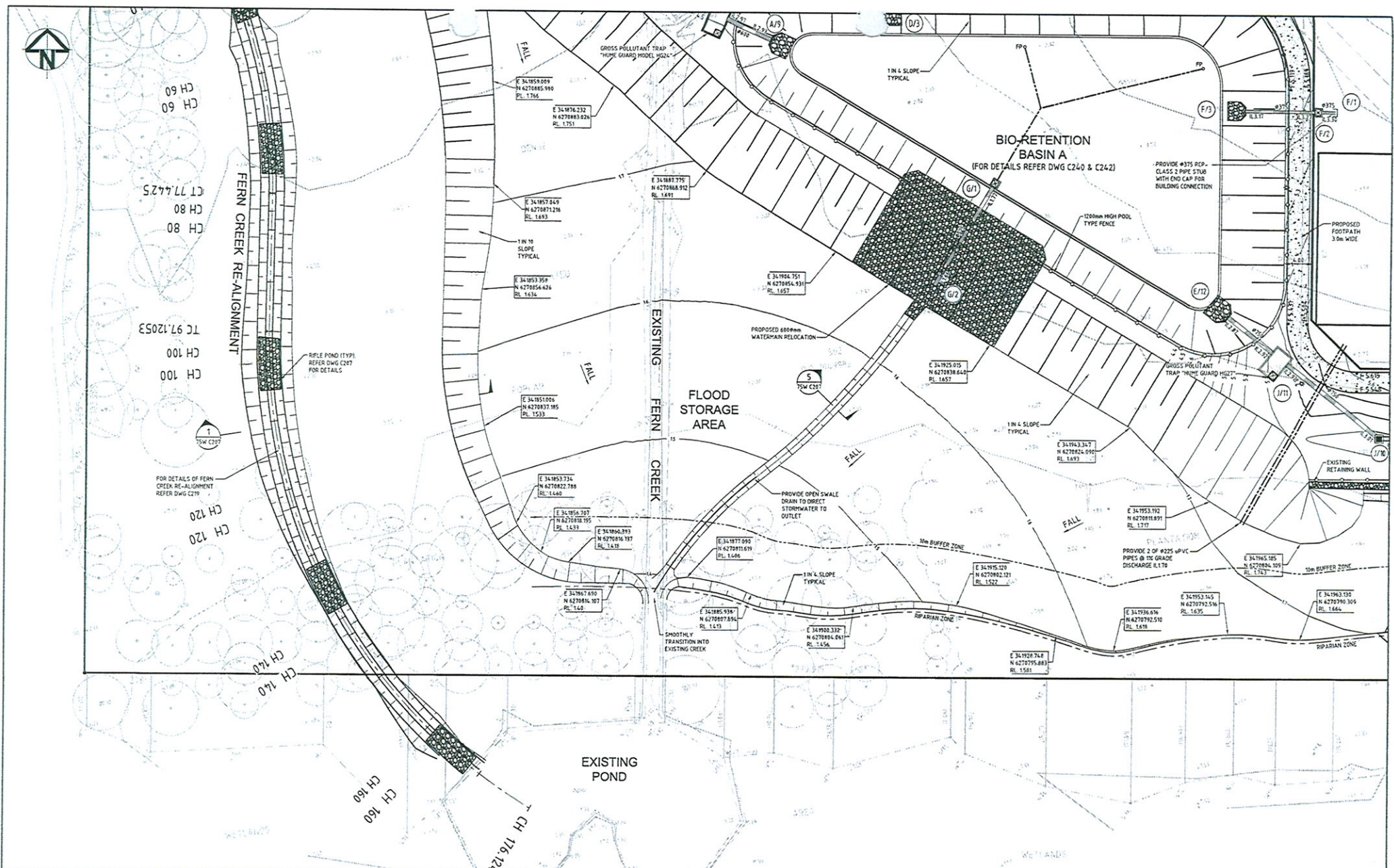
- STORMWATER DESIGN CRITERIA:

(A) AVERAGE RESIDENTIAL DRAINAGE	1:100 YEARS
(B) AVERAGE COMMERCIAL DRAINAGE	1:100 YEARS
(C) AVERAGE INDUSTRIAL DRAINAGE	1:100 YEARS
(D) AVERAGE ROADSIDE DRAINAGE	1:100 YEARS
(E) AVERAGE RAILWAY DRAINAGE	1:100 YEARS
(F) AVERAGE AIRPORT DRAINAGE	1:100 YEARS
(G) AVERAGE PORT DRAINAGE	1:100 YEARS
(H) AVERAGE COASTAL DRAINAGE	1:100 YEARS
(I) AVERAGE MARINE DRAINAGE	1:100 YEARS
(J) AVERAGE FLOODPLAIN DRAINAGE	1:100 YEARS
(K) AVERAGE RIVER DRAINAGE	1:100 YEARS
(L) AVERAGE LAKE DRAINAGE	1:100 YEARS
(M) AVERAGE MOUNTAIN DRAINAGE	1:100 YEARS
(N) AVERAGE HILLS DRAINAGE	1:100 YEARS
(O) AVERAGE PLAIN DRAINAGE	1:100 YEARS
(P) AVERAGE DESERT DRAINAGE	1:100 YEARS
(Q) AVERAGE TROPICAL DRAINAGE	1:100 YEARS
(R) AVERAGE SUBTROPICAL DRAINAGE	1:100 YEARS
(S) AVERAGE TEMPERATE DRAINAGE	1:100 YEARS
(T) AVERAGE COLD DRAINAGE	1:100 YEARS
(U) AVERAGE POLAR DRAINAGE	1:100 YEARS
- PIPE SIZES SHALL BE 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm, 500mm, 600mm, 750mm, 900mm, 1050mm, 1200mm, 1350mm, 1500mm, 1650mm, 1800mm, 2000mm, 2250mm, 2400mm, 2700mm, 3000mm, 3300mm, 3600mm, 3900mm, 4200mm, 4500mm, 4800mm, 5100mm, 5400mm, 5700mm, 6000mm, 6300mm, 6600mm, 6900mm, 7200mm, 7500mm, 7800mm, 8100mm, 8400mm, 8700mm, 9000mm, 9300mm, 9600mm, 9900mm, 10200mm, 10500mm, 10800mm, 11100mm, 11400mm, 11700mm, 12000mm, 12300mm, 12600mm, 12900mm, 13200mm, 13500mm, 13800mm, 14100mm, 14400mm, 14700mm, 15000mm, 15300mm, 15600mm, 15900mm, 16200mm, 16500mm, 16800mm, 17100mm, 17400mm, 17700mm, 18000mm, 18300mm, 18600mm, 18900mm, 19200mm, 19500mm, 19800mm, 20100mm, 20400mm, 20700mm, 21000mm, 21300mm, 21600mm, 21900mm, 22200mm, 22500mm, 22800mm, 23100mm, 23400mm, 23700mm, 24000mm, 24300mm, 24600mm, 24900mm, 25200mm, 25500mm, 25800mm, 26100mm, 26400mm, 26700mm, 27000mm, 27300mm, 27600mm, 27900mm, 28200mm, 28500mm, 28800mm, 29100mm, 29400mm, 29700mm, 30000mm, 30300mm, 30600mm, 30900mm, 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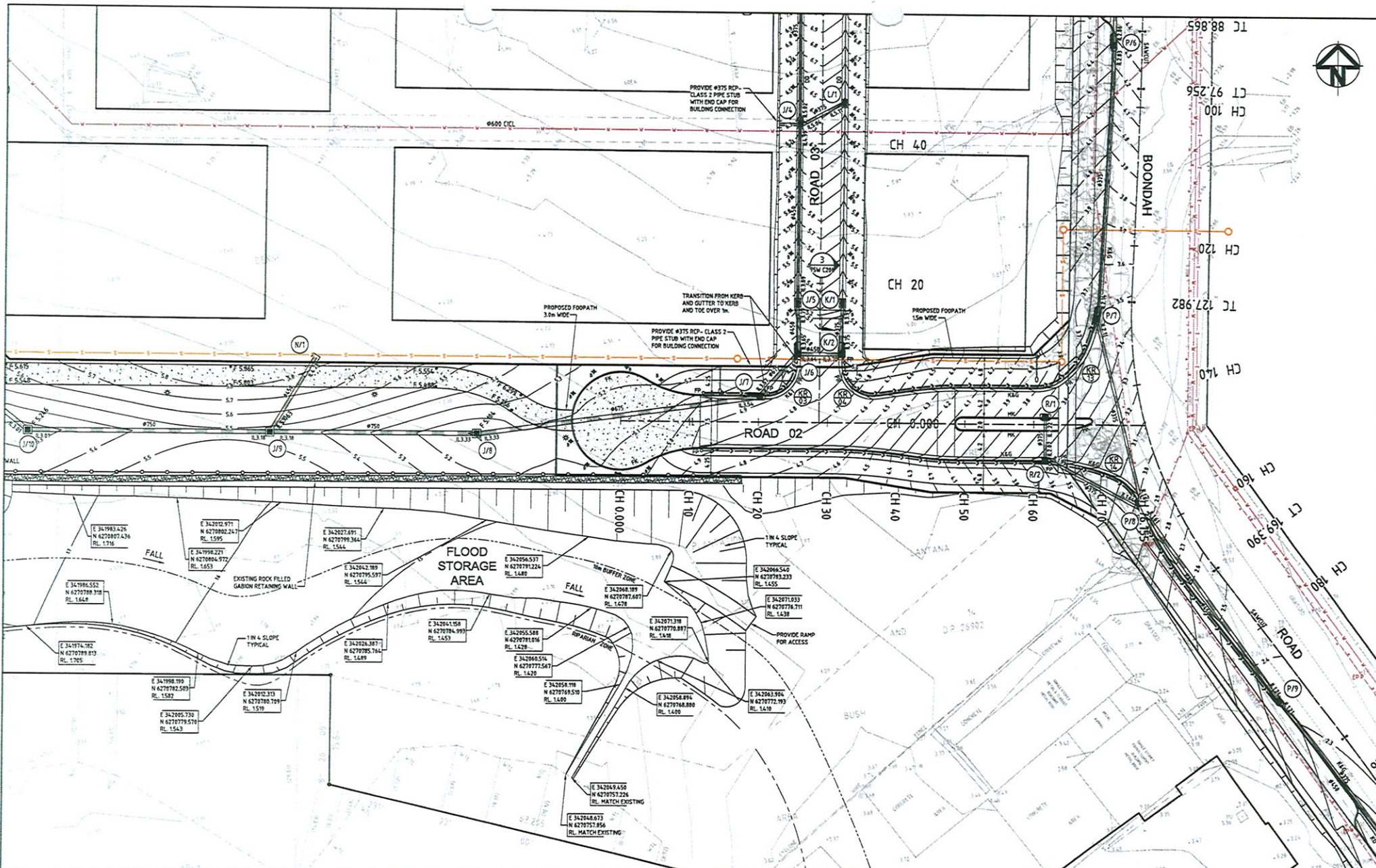


75W C210			THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L	Client MERITON APARTMENTS PTY LTD		Scales 1: 250		Drawn TS		Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD		Civil Engineers and Project Managers Suite 702, 8A Glen Street Mills Point NSW 2061 ABN 95 130 662 405 Tel: 02 8920 2498 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au	
75W C211				Grid MGA		Checked AMC		Design MH		Title ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 1		Status FOR APPROVAL	
75W C212				Height Datum AHD		Approved AMC		Project No. 10-23		Drawing No. 75W C210		Issue A	
75W C215				Scale Bar 0 5 10 15 20 25m 1: 250									
KEY PLAN													



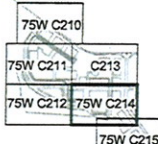


KEY PLAN 		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		Client MERITON APARTMENTS PTY LTD		Scales 1:250		Drawn TS		Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD		Civil Engineers and Project Managers Suite 702, 6A Glen Street Mills Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au	
Issue Description		Date 28/12/11		Scale Bar 0 5 10 15 20 25m 1:250		Grid MGA		Checked APC		Title ROADWORKS AND STORMWATER DRAINAGE PLAN SHEET 3		Status FOR APPROVAL	
Issue Description		Date		Height Datum AHD		Approved APC		Project No. 75W C212		Project No. 10-23		Issue A	



A ISSUED FOR APPROVAL		20/12/11
Issue	Description	Date

KEY PLAN



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Client
MERITON APARTMENTS PTY LTD

Scale Bar
0 5 10 15 20 25m
1:250

Scales	1:250
Grid	MGA
Height Datum	AHD
Drawn	TS
Designed	MM
Checked	AMC
Approved	AMC

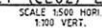
Project
**PROPOSED RESIDENTIAL DEVELOPMENT
14-18 BOONDAH ROAD
WARRIEWOOD**

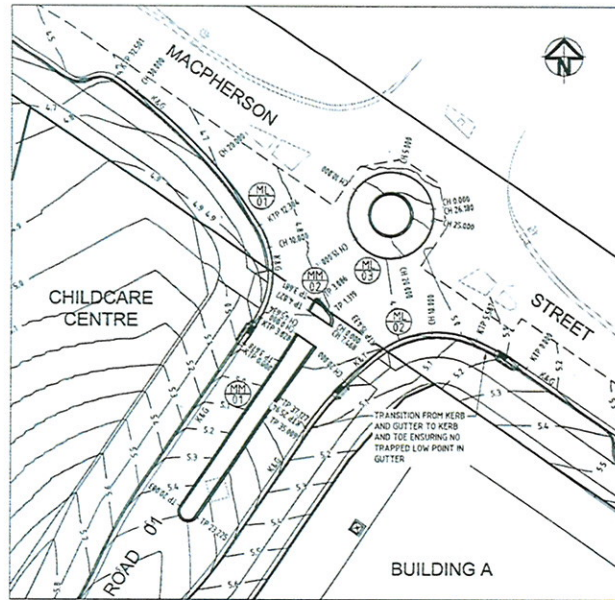
Title
**ROADWORKS AND
STORMWATER DRAINAGE
PLAN
SHEET 5**

Civil Engineers and Project Managers
Suite 702, 6A Glen Street
Mills Point NSW 2061
Tel: 02 8920 3406
Fax: 02 9922 5102
www.atl.net.au
info@atl.net.au

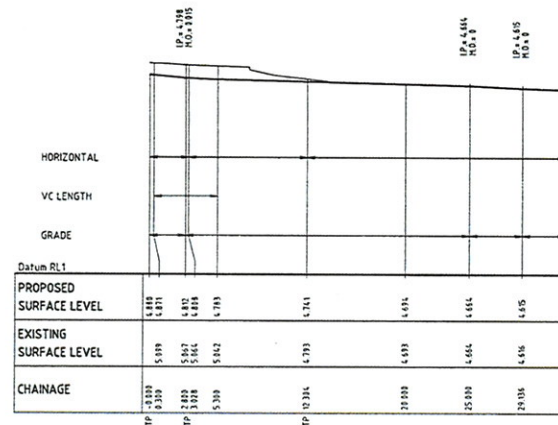
AT&L

Status	FOR APPROVAL	A1
Drawing No.	75W C214	Project No.
Issue	10-23	Issue

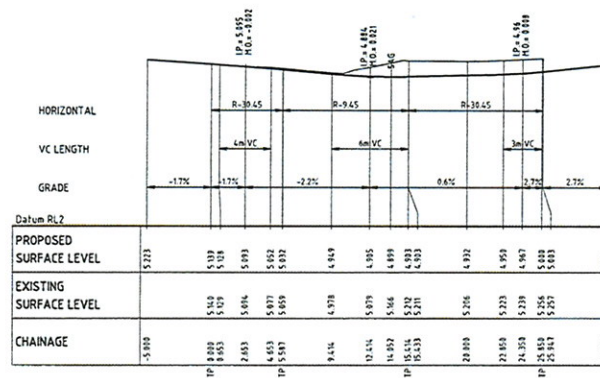




INTERSECTION PLAN - ROAD 01 AND MACPHERSON STREET
SCALE 1:250



ML01 LONGITUDINAL SECTION
SCALE 1:200 HORI
150 VERT.

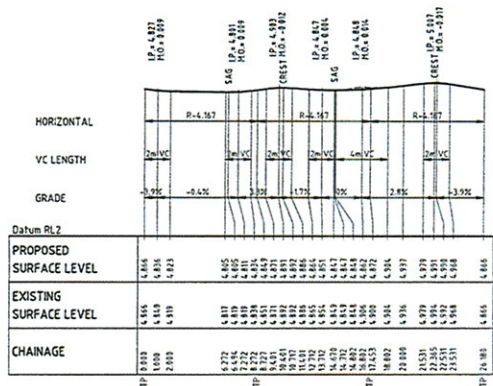


ML02 LONGITUDINAL SECTION
SCALE 1:200 HORI
150 VERT.

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	341989.420	6271063.817	42424°15'				
IP2	1.514	341990.442	6271064.935		44.250	1.515	3445°04'	3.428
CTP	3.028	341991.380	6271064.112	38464°08'				
IP3	7.666	341996.416	6271070.151		8.458	5.167	42453°22'	9.275
CTP	12.304	341992.580	6271074.884	35546°41'				
IP4	22.402	341998.383	6271084.200		58.458	10.234	22456°19'	20.198
IP5	32.501	341998.880	6271091.142	31245°22'				

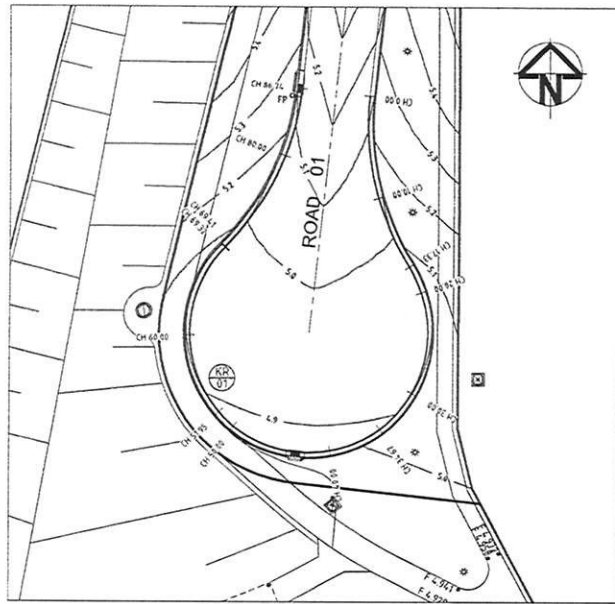
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	341934.143	6271057.579	312425°14'				
IP2	2.794	341934.155	6271059.440		30.458	2.801	10430°44'	5.587
CTP	5.587	341931.818	6271040.958	381655°03'				
IP3	10.510	341927.215	6271043.817		9.458	5.423	5744°15'	9.864
CTP	15.423	341922.417	6271041.290	242493°13'				
IP4	20.490	341917.719	6271052.875		30.458	5.310	19445°00'	10.514
IP5	25.747	341914.134	6271054.876	222426°14'				

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	341929.487	6271074.080	0400°00'				
CT	0.000	341929.487	6271074.080	35455°00'				
IP2	4.163	341929.487	6271081.297		4.167	7.217	20400°00'	8.727
IP4	8.727	341929.487	6271084.863		4.167	7.217	20400°00'	-17.453
CTP	8.727	341929.157	6271077.488	34400°00'				
IP3	13.696	341934.987	6271074.080		4.167	7.217	20400°00'	8.727
CTP	17.453	341929.157	6271079.472	11455°00'				
IP5	24.180	341929.487	6271074.080	0400°00'				

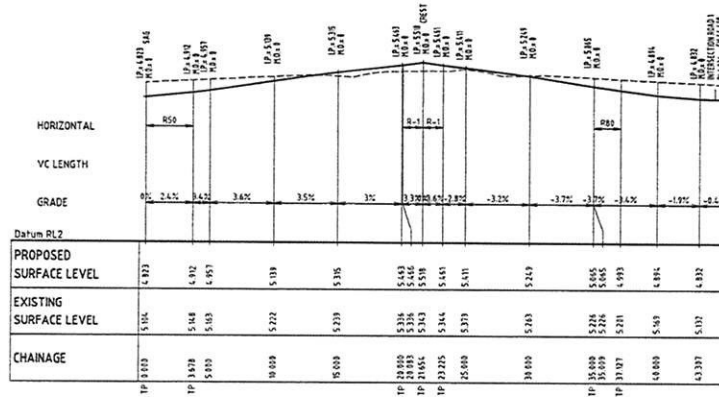


ML03 LONGITUDINAL SECTION
SCALE 1:200 HORI
150 VERT.

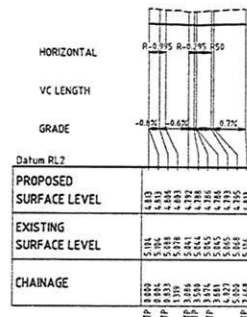
THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		Client MERITON APARTMENTS PTY LTD	Scales AS SHOWN	Drawn TS	Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD	Civil Engineers and Project Managers Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au
Issue A		Scale Bar 0 1 2 3 4 5m 0 5 10 15 20m 0 5 10 15 20 25m 1:250	Grid AHD	Checked TS	Title INTERSECTION LAYOUT PLAN AND KERB RETURN PROFILES SHEET 1	Status FOR APPROVAL
Date 28/12/11		Project No. C230		Project No. 10-23		Issue A



CUL-DE-SAC - ROAD 01
SCALE 1:250



MM01 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT.

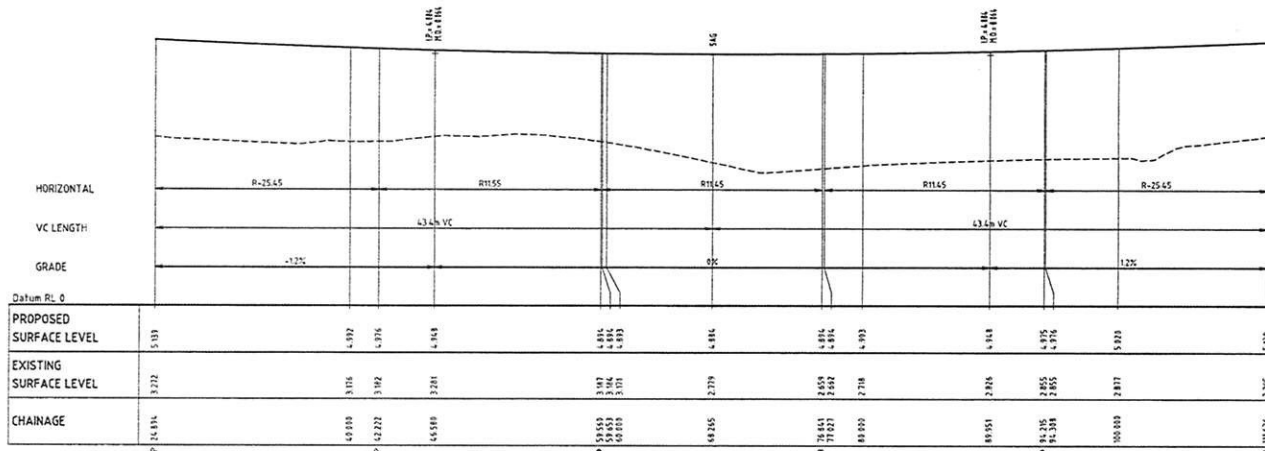


MM02 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT.

RAISED MEDIAN MM01 - SETOUT DETAILS (FACE OF KERB)									
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN	
IP1	0.000	341914.548	4271864.890	218413°21'					
IP2	1.839	341913.429	4271862.444						
CT	3.474	341912.188	4271861.287	22424°14'					
TC	28.883	341901.118	4271863.179	22242°14'					
IP3	28.883	341900.443	4271864.443						
CTP	21.654	341901.181	4271863.747	33242°14'					
IP4	22.439	341901.919	4271862.892						
CT	23.225	341902.192	4271863.818	42424°14'					
TC	35.889	341912.544	4271864.527	42424°14'					
IP5	36.889	341911.241	4271867.388						
CT	37.127	341911.994	4271868.071	43657°14'					
IP6	43.387	341914.285	4271862.520	43657°14'					
IP7	45.434	341914.568	4271864.890	33242°14'					

RAISED MEDIAN MM02 - SETOUT DETAILS (FACE OF KERB)									
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN	
IP1	0.000	341918.821	4271864.328	43457°14'					
IP2	0.841	341918.548	4271864.880						
CT	1.319	341918.153	4271865.537	328414°33'					
TC	3.884	341917.223	4271867.848	328414°33'					
IP3	3.788	341916.983	4271867.428						
CT	3.474	341916.728	4271867.050	214481°58'					
TC	3.445	341916.724	4271867.043	214481°58'					
IP4	4.254	341916.483	4271868.569						
CT	4.627	341916.672	4271868.102	35428°43'					
IP5	4.827	341916.872	4271868.102	35428°43'					
IP6	7.488	341918.821	4271864.328	33242°14'					

KERB RETURN KR01 - SETOUT DETAILS (LIP OF KERB)									
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN	
IP1	0.000	341861.674	4278913.824	134424°56'					
IP2	0.444	341855.427	4278945.896						
CTP	17.328	341863.174	4278956.897	155425°23'					
IP3	25.992	341861.454	4278942.181						
CT	36.448	341858.194	4278941.950	241425°53'					
TC	34.759	341858.114	4278941.905	241425°53'					
IP4	43.353	341848.735	4278943.799						
CT	51.947	341842.988	4278945.799	327424°19'					
TC	52.193	341842.881	4278945.954	327424°19'					
IP5	60.727	341837.147	4278954.954						
CT	69.329	341845.714	4278947.314	33424°45'					
TC	69.454	341845.794	4278947.372	33424°45'					
IP6	78.878	341852.035	4278946.747						
IP7	86.742	341855.283	4278915.471	14424°04'					



KR01 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT.

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Client
MERITON APARTMENTS PTY LTD

Scales
AS SHOWN

Drawn
Designed
Checked
Approved

Project
**PROPOSED RESIDENTIAL DEVELOPMENT
14-18 BOONDAH ROAD
WARRIEWOOD**

Civil Engineers and Project Managers
Suite 702, 6A Glen Street
Missions Point NSW 2061
ABN 96 130 882 405
Tel: 02 8920 2466
Fax: 02 9922 5102
www.atl.net.au
info@atl.net.au

Issue Description Date

Scale Bar
0 1 2 3 4 5m
0 5 10 15 20m
1:50
1:200

Grid
Height
Datum
AHD

Project
**PROPOSED RESIDENTIAL DEVELOPMENT
14-18 BOONDAH ROAD
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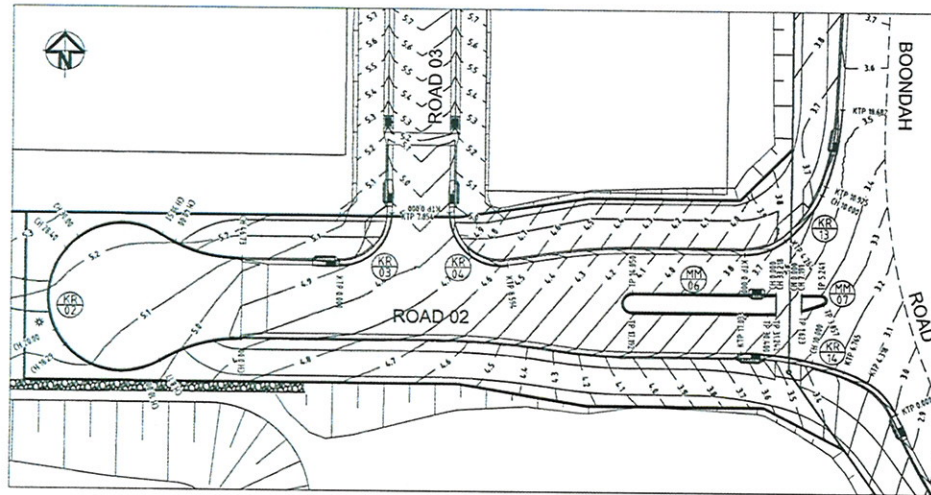
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Scale Bar
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0 5 10 15 20m
1:50
1:200

Grid
Height
Datum
AHD

Project
**PROPOSED RESIDENTIAL DEVELOPMENT
14-18 BOONDAH ROAD
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info@atl.net.au



INTERSECTION PLAN - ROAD 01 AND BOONDAH ROAD
SCALE 1:250

KERB RETURN KR02 - SETOUT DETAILS (BACK OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	342074.222	6270001.431	274020°34'				
IP2	4.087	342070.872	6270002.239					
CTP	8.175	342064.210	6270000.540	284048°11'	14.850	4.194	31632°25'	8.175
IP3	13.230	342060.402	6270000.181					
CTP	18.284	342057.349	6270000.352	327064°42'	7.150	6.110	81601°37'	10.111
IP4	23.342	342054.096	6270000.524					
CTP	28.397	342050.697	6270001.544	44651°24'	7.150	6.110	81601°37'	10.111
IP5	33.453	342043.190	6270004.544					
CTP	38.509	342047.086	6270001.444	129653°01'	14.850	4.219	31643°04'	8.221
IP6	42.619	342071.223	6270000.961					
IP7	46.730	342075.399	6270000.342	094009°57'				

KERB RETURN KR03 - SETOUT DETAILS (LIP OF KERB)

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	342084.440	6270007.379	094020°34'				
IP2	3.923	342085.555	6270004.453					
IP3	7.854	342090.321	6270011.800	0860°36'	5.000	5.000	90459°40'	7.854

KERB RETURN KR04 - SETOUT DETAILS (LIP OF KERB)

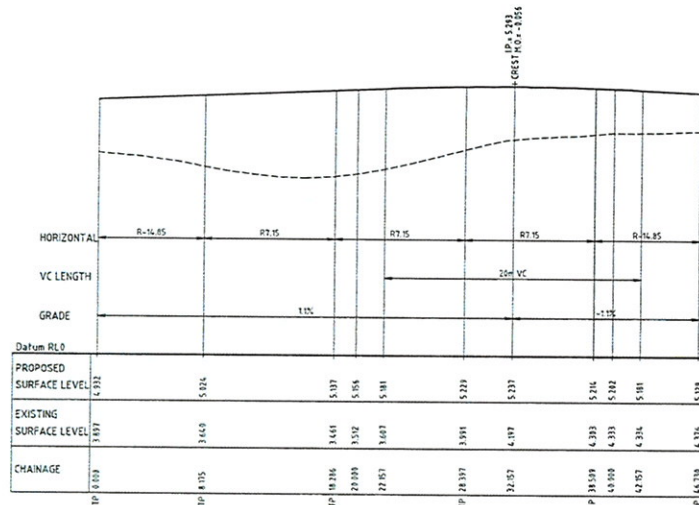
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	342095.880	6270010.912	180420°34'				
IP2	4.293	342095.038	6270005.172					
IP3	8.584	342100.839	6270005.186	09651°37'	5.000	5.001	90424°58'	8.584

KERB RETURN KR13 - SETOUT DETAILS (LIP OF KERB)

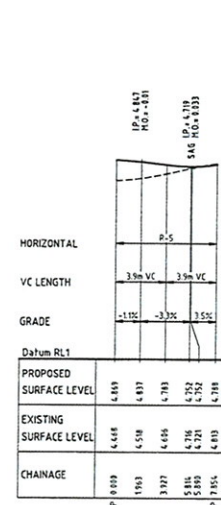
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	342123.901	6270003.080	094020°42'				
IP2	8.603	342123.904	6270003.087	094020°42'				
IP3	2.131	342124.889	6270002.747					
CT	4.258	342128.811	6270003.854	08429°35'				
TC	4.254	342128.816	6270003.857	08429°35'				
IP3	7.593	342130.891	6270005.541					
CT	10.922	342132.424	6270006.543	28432°34'				
TC	10.925	342132.424	6270006.546	28432°34'				
IP4	14.803	342134.493	6270011.980					
IP5	18.682	342135.244	6270015.815	11604°48'				

KERB RETURN KR14 - SETOUT DETAILS (LIP OF KERB)

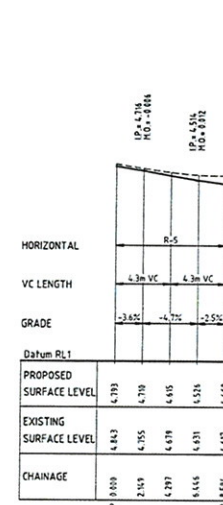
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	TANGENT	DEF ANGLE	ARC LEN
IP1	0.000	342134.519	6270005.815	344493°010'				
IP2	2.159	342135.903	6270007.972					
CT	4.318	342134.081	6270009.289	305641°57'				
TC	4.318	342134.081	6270009.289	305641°57'				
IP3	5.541	342133.084	6270009.596					
CT	4.745	342132.083	6270010.545	297439°53'				
IP5	4.745	342132.083	6270010.545	297439°53'				
TC	4.745	342132.083	6270010.545	297439°53'				
IP6	11.890	342127.610	6270002.931					
IP7	17.033	342122.281	6270003.724	278420°34'				



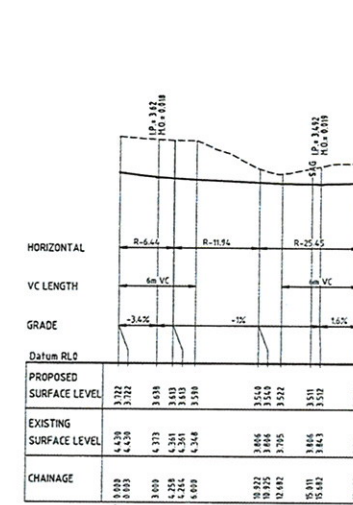
KR02 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT



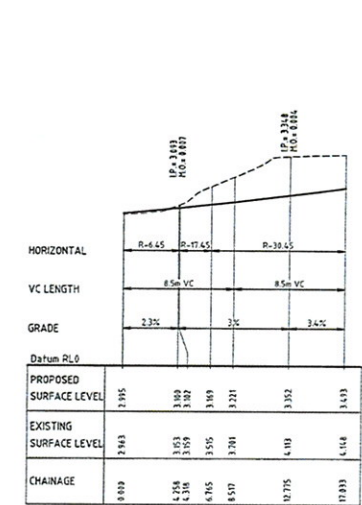
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SCALE 1:200 HORI
1:50 VERT



KR04 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT

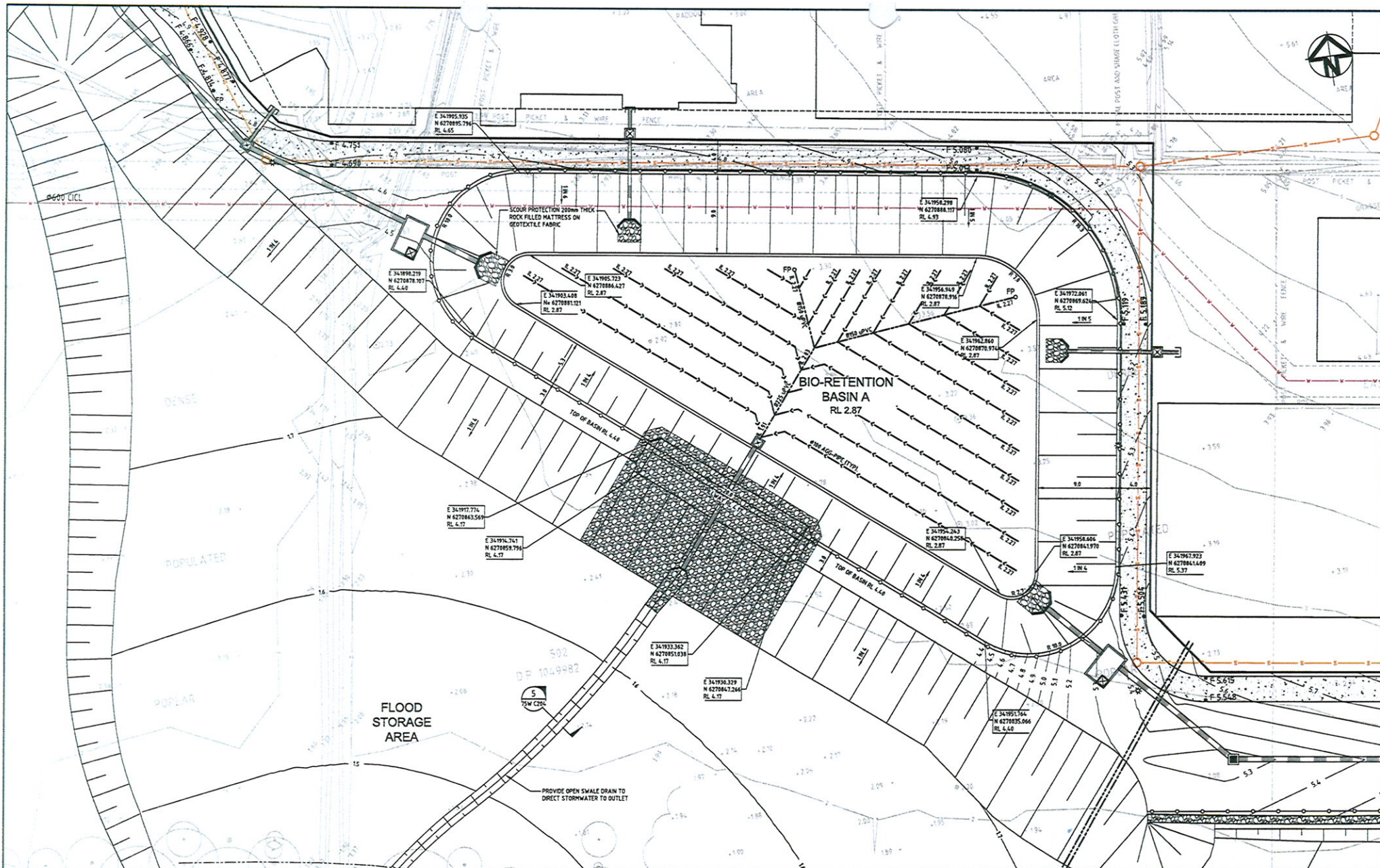


KR13 LONGITUDINAL SECTION
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1:50 VERT

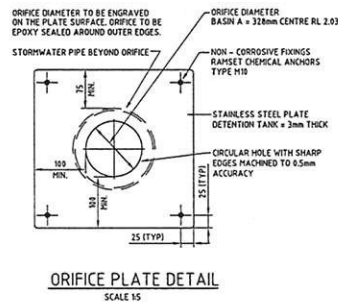
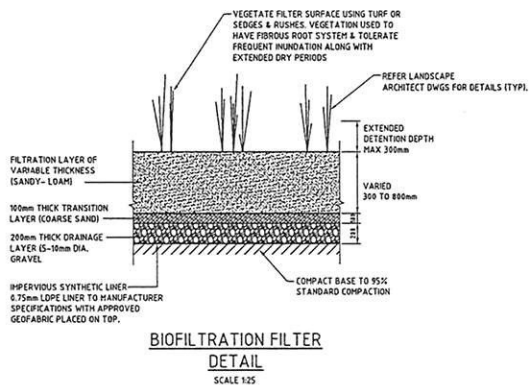
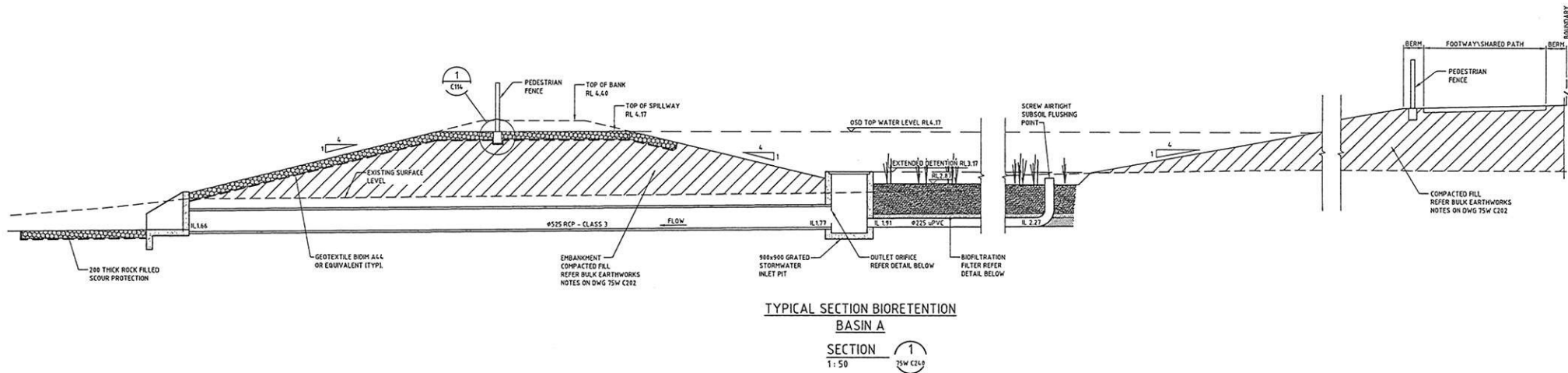


KR14 LONGITUDINAL SECTION
SCALE 1:200 HORI
1:50 VERT

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		Client MERITON APARTMENTS PTY LTD Scale Bar 0 1 2 3 4 5m 0 5 10 15 20m 1:50 0 5 10 15 20m 1:200 0 5 10 15 20m 1:250	Scales AS SHOWN Grid AHD Height Datum	Drawn Designed Checked Approved TS TS MR AHC	Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD Title INTERSECTION LAYOUT PLAN AND KERB RETURN PROFILES SHEET 4	Civil Engineers and Project Managers Sulte 702, 6A Glen Street Milsions Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2406 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au Status FOR APPROVAL Drawing No. 75W C234 Project No. 10-23 Issue A
A ISSUED FOR APPROVAL Issue Description Date	28/12/11					



A ISSUED FOR APPROVAL 20/12/11 Issue Description Date		THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L		Client MERITON APARTMENTS PTY LTD Scale Bar 0 5 10 15 20m 1: 200		Scales 1: 200 Grid MGA Height Datum AHD		Drawn TS Designed TS Checked HM Approved AMC		Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD Title BIO RETENTION BASIN A DETAIL PLAN		Civil Engineers and Project Managers Suite 702, 8A Glen Street Milsom's Point NSW 2061 ABN 96 130 882 405 Tel: 02 8520 2465 Fax: 02 9522 5102 www.atl.net.au info@atl.net.au Status FOR APPROVAL Drawing No. 75W C240 Project No. 10-23 Issue A		A1	
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A ISSUED FOR APPROVAL 23/12/11	Issue Description Date
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Client MERITON APARTMENTS PTY LTD	Scale Bar 0 0.5 1 1.5 2 2.5m 0 1 2 3 4 5m 1: 25 1: 50
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Scales AS SHOWN	Drawn TS Designed TS Checked HT Approved AMC
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Project PROPOSED RESIDENTIAL DEVELOPMENT 14-18 BOONDAH ROAD WARRIEWOOD	Title BIO RETENTION BASIN SECTION AND DETAILS
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Civil Engineers and Project Managers Suite 702, 6A Glen Street Milsons Point NSW 2061 ABN 96 130 882 405 Tel: 02 8920 2466 Fax: 02 9922 5102 www.atl.net.au info@atl.net.au	Status FOR APPROVAL A1
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