

Job No: 2005/307

Friday, 14 August 2009

Pittwater Council P.O. Box 882 Mona Vale NSW 1660

Attention: General Manager

Interim Occupation Certificate No. 05/307/01 RE: Warriewood Aged Care Facility, 6 - 14 Macpherson Street, Warriewood

Please find attached a copy of Interim Occupation Certificate 05/307/01 and required attachments issued by Steve Watson & Partners for the above mentioned development in accordance with Section 109C(1)(c) and 109H of the Environmental Planning and Assessment Act 1979.

Please find attached a cheque in the amount of \$30.00 payable for the registration of the Occupation Certificate.

Can you please forward SWP a receipt for the acknowledgment of the lodgement cheque.

With regard to the attached certificate please do not hesitate to contact me should you have any queries or require any further information. PEC: 264162 \$30.00 RECEIVED 20/8/09

Regards

Tim Abovian Assistant Building Regulations Consultant Steve Watson & Partners Pty Ltd

2 0 AUG 2009 PITTWATER COUNCIL

> **BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS** FIRE SAFETY ENGINEERS

LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000 TEL +61 2 9283 6555 | FAX +61 2 9283 8500 www.swpartners.com.au ABN 48 102 366 576



INTERIM OCCUPATION CERTIFICATE

BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS FIRE SAFETY ENGINEERS

LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000 TEL +61 2 9283 6555 FAX +61 2 9283 8500 sydney@swpartners.com.au www.swpartners.com.au ABN 48 102 366 576

Issued under the Environmental Planning and Assessment Act 1979 Section 109C(1)(c) and 109H

Interim Occupation Certificate No. 05/307/01

I, Stephen Watson, certify that:

- I have been appointed as the Principal Certifying Authority under section 109E.
- I have taken into consideration the health and safety of the occupants of the building.
- A Development Consent or Complying Development Certificate is in force with respect to the building.
- A Construction Certificate has been issued with respect to the plans and specifications for the building.
- The building is suitable for occupation or use in accordance with its classification under the Building Code of Australia.
- Where required, a Final Fire Safety Certificate has been issued for the building or an Interim Fire Safety Certificate has been issued for the relevant part of the building.

· Where required, a report from the Commissioner of Fire Brigades has been considered.

Applicant	Name: Anglican Retirement Villages C/o Morgan Moore & Associates Address:Level 5, 140 Arthur Street					
	Suburb: North Sydney State: NSW Postcode: 2060					
Location of the Property	Address: 6-14 Macpherson Street Suburb: Warriewood State: NSW Postcode: 2102 Real Property Description: Lot B DP400488, Lot 22 DP5464, Lot B DP358765, Lot B DP345528, PT Lot 1 DP208149, PT Lot 3 DP579309, PT Lot 3 DP942319, PT Lot 4 DP579309					
Building Description	Stage 1 – Independent Living Units					
Building Code of Australia Classification	Class 2					
Date of Receipt	Date Received: 19th June 2009					
Determination	Approved Date of Determination: 14th August 2009					
Development Consent	Development Consent Number: N 0102/05 & S96 modifications Council: Pittwater Date of Determination: 6 th April 2006 & 24 th October 2007, 22 nd December 2006, 8 th					
	January 2007, 24th October 2007 & 23rd May 2008					

Steve Watson

Accreditation Body: BPB

Accreditation No: BPB0432

Date of Endorsement: Friday, 14 August 2009

Documentation relied upon to issue Occupation Certificate 05/307/01 for Warriewood Retirement Village.

Item No	Description	Date
1.	Mandatory inspection record (Final)	24.07.09
2.	Mandatory inspection record (Stormwater)	11.06.09
· 3.	Mandatory inspection record (Waterproofing)	07.05.09
4.	Application for Occupation Certificate	19.06.09
5.	Final fire safety certificate	14.08.09
6.	Certificates contained within SWP Certification Package	-
7.	SWP DA Checklist and associated documentation	-



BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS FIRE SAFETY ENGINEERS

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S162B Site Inspection Record

Project						
Address		6-14 Macpherson Street, Warriewood	Inspection	record #	05/307 F	
Inspecto	or	Steven Watson	Accreditation	on #	BPB0432	
DA ref		0102/05& S96 modifications	CC Ref		05/307/02 & 05/307/0	05
Date	24/07/09 Type		Туре		COMPLETION	
Checklis	st					
Consist	ency wi	th approved plans?	Yes	BCA co	ompliance matters OK?	Yes
Pre OC attached		nditions? (see checklist	Yes	Basix n	natters OK?	Yes
lssues/F #	Rectification	ation works required		Commen		Action by
1.				requirem	ent	-
2.						
Was the	e Insped	ction				

Page 1 of 1



LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000 TEL +61 2 9283 6555 FAX +61 2 9283 8500 sydney@swpartners.com.au www.swpartners.com.au ABN 48 102 366 576

S162B Site Inspection Record

	s Warriewood	Поросион	record #	05/307 SW	
Inspect	or Andrew Rys	Accreditat	ion #	BPB0356	
DA ref	0102/05& S96 modification	s CC Ref		05/307/02 & 05/307	7/05
Date	11/06/09	Туре		STORMWATER CO	ONNECTION
Checkli	ist				
Pipe ap	opears to fall to the junction point?	Yes		ation from Hydraulic er provided?	Yes
Workma	anship appears adequate?	Yes	Photog	raphic record kept?	N/A
	Rectification works required			w.	
#	Issue		Commer requirem		Action by
1.					
2.					
Signed	Milaly		11/0	ed above 6/09	
	Satisfactory Satisfactory subject to reso				



BUILDING REGULATIONS CONSULTANTS AND CERTIFIERS
FIRE SAFETY ENGINEERS

LEVEL 5, 432 KENT STREET, SYDNEY NSW 2000 TEL +61 2 9283 6555 IFAX +61 2 9283 8500 sydney@swpartners.com.au www.swpartners.com.au ABN 48 102 366 576

S162B Site Inspection Record

Project

6-14 Macpherson Street,

Inspection record #

05/307 W

Address

Warriewood

Accreditation #

BPB0356

Inspector DA ref Andrew Rys 0102/05& S96 modifications

CC Ref

05/307/02 & 05/307/05

Date

07/05/09

Type

WATERPROOFING

Generic Data

Wall/floor description	Concrete		
Product type and brand – floor	Vulkem Non Exposed Membrane		
Product type and brand – walls	Tremproof 90 Two Pack Cementitious Acrylic		
Angle locations?	Door		

Schedule of units inspected.

Unit #	Main	Ensuite	Laundry
63	Yes	Yes	Yes
64	Yes	Yes	Yes
69	Yes	N/A	Yes
65	Yes	Yes	Yes
66	Yes	Yes	Yes
84	Yes	N/A	Yes
88	Yes	Yes	Yes
87	Yes	Yes	Yes

Issues/Rectification works required

#	Issue	Comment/ requirement	Action by
1.			

Was the Inspection	
	resolution of the issues identified above
Signed	
Inspector	07/05/09

APPLICATION FOR OCCUPATION CERTIFICATE



BUILDING REGULATIONS CONSULTANTS AND DESTRESS.
PERS DAPETY EVICENEESS.

LEVEL 5, 492 KENT STREET, SYDNEY NSW 2000 TEL +61 2 9285 8555 TAX +61 2 9285 8590 sydney@swaartners.com.au www.swaartners.com.au ABN 45 102 866 575

Type of Certificate Sought Tick appropriate boxes	o Interim certificate o Final certificate o Change of building use of an existing building o Occupation/use of a new building
Applicant It is important that we are able to contact you if we need more information. Please give us as much detail as possible.	Mr Mrs Miss Ms Other Surname (or Company): AN CO-1 CNN DETIRENT VILLAGES Given names (or ABN): Address: LEVEL Z GZ NORWEST BOLCE VARA BANLICH AM HILL State: NSW Post Code: 2153 Phone: (02) 9421 5333 Fax: () Mobile:
Location of the Property We need this to correctly identify the land.	Address: 6 - 14 MALPHERION ST WARRIENDOS State: Post Code: Real Property Description: Lot B, DP 400488; Lot B, DP 358765; (eg. Lot/DP/Section, etc) Lot A, DP 400488; Lot A, DP 358765; Lot 22 DP 4 5464 The real property description is mandalory, these details are shown on your rate notices, property deeds etc
PART 2 Work D	description
Development Consent or Complying Development Certificate	Development Consent/Gemplying Development No: N 0102/05 \downarrow S96 Martifications. Date of Determination: 06/04/06, 24/10/07, 22/12/08/01/07, 24/10/07, 23/05/08.
Construction Certificate	Construction Certificate No: $05/307/05$, $205/307/02$.
	Date of Determination: $19/06/08$ a $20/12/07$.

Building Details	If you are applying for an Occupation Certificate for part of the building, describe the part of the building;
The building classification must be the same as that	Stage 1 Independent wing Units.
specified in the Complying Development Certificate or	sage 1. = nacepeatates was onces.
Construction Certificate	
	Describe the proposed use of the building:
	What is the classification of the building under the BCA:
	Change in Classification
	What is the existing classification of the building under the BCA:
	What is the new classification of the building under the BCA:
Attachments	The following information must accompany an application for an Occupation Certificate:
	A copy of Development Consent or Complying Development Certificate A copy of the Construction Certificate, where relevant
	A Final Fire Safety Certificate or Interim Fire Safety Certificate (not required for class 1a or 10 buildings).
	Other certificates or documentation relied on.
PART 3 Declar	ation
Declaration	
f the applicant is a	I declare that all the information in the application is, to the best of my knowledge, true and accurate.
company or strata title pody corporate, a director or authorised delegate must sign this declaration.	I also understand that if the information is incomplete the application may be delayed or rejected or more information may be requested. I acknowledge that if the information provided is misleading, any approval granted 'may be void'.
	Signature: 19 6 109
	Name, if you are not the applicant: RICHAZO 1860TT
	In what capacity are you signing if you are not the applicant:

FIRE SAFETY CERTIFICATE

The owner of a building, or the owner's agent, needs to provide a fire safety certificate to the certifying authority (a council or a private certifier) with an application for an occupation certificate. You can use this form to do so. A copy of the certificate also needs to be given to the Commissioner of New South Wales Fire Brigades, and displayed in the building in a prominent position.

1. De	tails of the	Building being	g Certified			
	of the owner o	f the building or	part of the building			
Full name/comp	anv An	nlican Retirer	ment Villages T	Diocese of Sydney		
name			none vinagoo, z	picococ or cyuncy		
	ss of the bu	uilding				
Flat/street no.	6-14		Street	Macpherson S	treet	
Suburb or town	Warriewo	ood			Postcode	2101
Nearest	Boondah	Road			The second section of the second section	7
cross						
	ertificate is fo	or: whole build	ding			
			72.020 (000 00000)			
Descri	iption of the	building or part	of the building			
All ne	w work (ent	tire building) -	Stane 1			
1		o ballalligj	Olago i			
2. Ty	pe of Certif	icate				
THE RESERVE OF THE PERSON	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	re safety certif	ficate			
		o outon, out an	.54.0			
Date of this	iA	18/2009				
certificate	LIT	101200				
3. Ce	rtification					
1	Ter	ry Edwa	rds	of	Southern Co	ers Constructions (Aust
being t	the owner of	the building de	scribed above, o	or the agent of the o	wner, certify that:	P
each of	the essentia	I fire safety me	asures listed in p	part 7 has been ass	essed by a properl	y qualified person, and
was fou	nd, when it v	was assessed b	by that person, to	be capable of perf	orming to at least t	he standard required
			for the building:	nd assurate to the b		l
-				nd accurate to the b	best of my knowled	ge and belief.
4. Info	ormation A	ttached to this	s Certificate			
		ent fire safety	schedule for the	building		
5. Sig	nature				N-XIII	
The ov	vner of the b	uilding, or the o	wner's agent, m	ust complete and si	ign the certificate.	
Signature	de	<u> </u>	. Na	ame TERRY	ESWARDS	
	7			. 01		
Address	40 Souti	Herry Cross	Constituci	e capacity in which		
1001633	135-	153 NEW	South Headyou	signing if you are	Prosect	MANAGER
		CUFF, NS		t the owner of the		
	DUILL	1,0	, oui	ionig		

1)

Privacy policy

You need to provide the information in this certificate to the certifying authority if you are applying for an occupation certificate. You also need to give the information to the council and the Commissioner of New South Wales Fire Brigades if a fire safety order has been made for the building once you have satisfied that order. If you do not supply a fire safety certificate as required, you will be in breach of the *Environmental Planning and Assessment Act* 1979 and you could be found guilty of an offence and/or required to take further action. Please contact the council if the information you have provided in this certificate is incorrect or changes.

Measure	Standard of performance required by the fire safety schedule	Date of assessment
Access panels, doors and hoppers to fire restisting shafts	BCA2008 Clause C3.13 and AS 1530.4	2/6/09
Automatic fail safe devices	Scheduled devices release upon trip of smoke detection, fire detection and sprinkler activation in accordance with BCA2008 clauses D2.19(b) and D2.21 (d) and/or AS 1670.1	20/7/09
Automatic fire detection and alarm system (smoke alarm system)	BCA2008 Specification E2.2a and AS 3786 – 1993	14/8/09.
Automatic fire detection and alarm system (smoke detection system)	BCA2008 Specification E2.2a and AS 1670.1 – 2004	14/8/09_
Automatic fire suppression systems (Sprinklers in carpark only)	BCA2008 Specification E1.5 and AS 2118.1 – 1999	3/6/09
Emergency lighting	BCA2008 Clause E4.2, E4.4 and AS 2293.1 - 2005	17/7/09
Exit signs	BCA2008 Clause E4.5, NSW E4.6, E4.8 and AS 2293.1 – 2005	17/7/09
Fire dampers	BCA2008 Clause C3.15 and AS/NZS 1668.1 – 1998 (AS 1682.1-1990 and AS 1682.2-1990)	16/6/09
Fire doors	BCA2008 Specification C3.4 and AS 1905.1 – 2005	3/8/09
Fire hydrant system	BCA2008 Clause E1.3 and AS 2419.1 – 2005	5/6/09
Fire seals protecting openings in fire resisting components of the building- Joints, gaps and miscellaneous penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.	2/6/09
Fire seals protecting openings in fire resisting components of the building- Electrical penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.	16/7/09
Fire seals protecting openings in fire resisting components of the building- Plumbing and penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.	\$/6/09
Hose reel systems	BCA2008 Clause E1.4 and AS 2441 - 2005	5/6/09
Lightweight construction (fire rated)	BCA2008 Specifications C1.8 and A2.3 and AS 1530.4	2/6/09
Portable fire extinguishers	BCA2008 Clause E1.6 and AS 2444 – 2001	4/6/09
Smoke detectors and heat detectors (detectors for the automatic closing operation of horizontal exits)	BCA2008 Clause C3.7 and AS 1670.1 – 2004	14/7/09
Smoke detectors and heat detectors (detectors for the automatic closing operation of smoke doors)	BCA2008 Specification C3 4 and AS 1670.1 – 2004	14/7/09
Smoke doors	BCA2008 Specifications C2.5 and C3.4 and AS 1288 – 2006	3/8/09
Warning and operational signs	BCA2008 Clauses D1.17, D2.23, E1.4 and E3.3	31/7/09

AUTOMATIC FIRE DETECTION AND ALARM SYSTEM - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

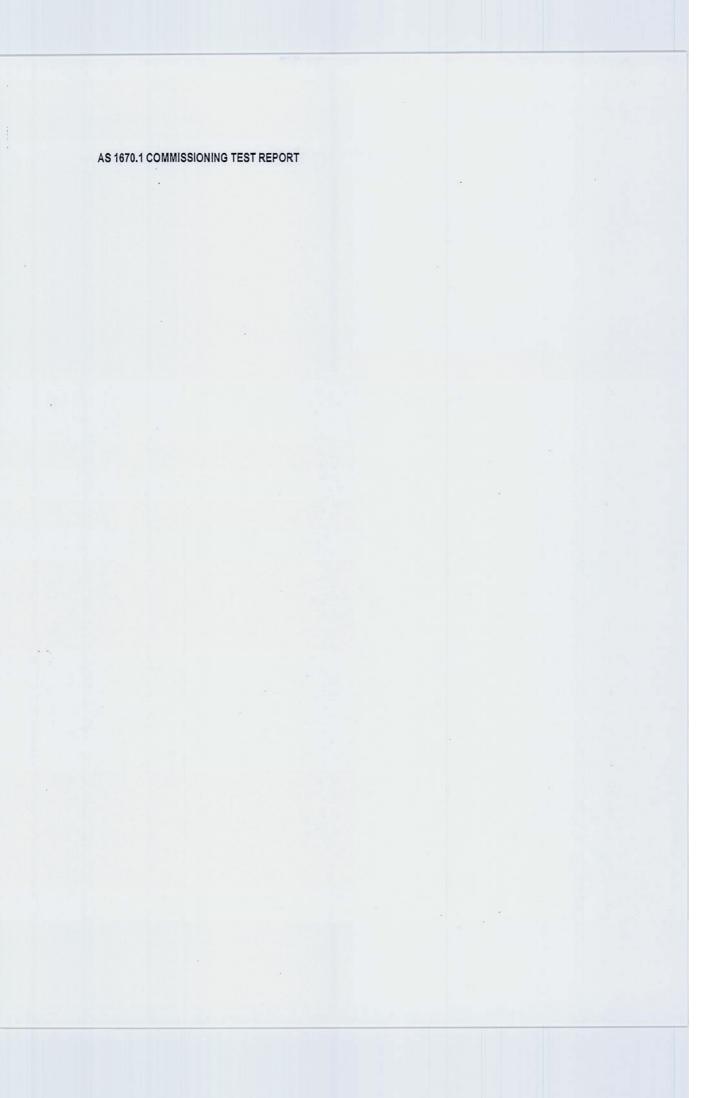
I hereby certify that:
a) The works have been inspected during construction and have been completed in accordance with the design, specifications and the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Automatic fire detection and alarm system (smoke alarm system)	BCA2008 Specification E2.2a and AS 3786 – 1993
Automatic fire detection and alarm system (smoke detection system)	BCA2008 Specification E2.2a and AS 1670.1 – 2004

		ave a good working knowledge of the r	elevant codes and standards
Relevant quali	ifications and accreditations:	Electrician	
c) The inform	nation contained in this state	ment is true and accurate to the best of	f mv knowledge.
-,			,
Name of Certi	fier: Andrew Mitchell		
Company:	Heyday Group Pty		
Address: 9 Wa	terloo Road, North Ryde 211	3	
Phone No	98556666	Fax No	98556691

ME	14th AUGUST 2009. A	gh:
Signature	Date	

NOTE - ALSO COMPLETE COMMISSIONING TEST REPORT ON FOLLOWING PAGES (see attached)



Commissioning Checklist

(General Detection System)

Heyday Group Pty Ltd
AENRZ 121 276 168
Heyday Electrics
ACC Technologies
Heyday Communications
Heyday Fire Technologies

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Project: Warriebrook Retirement Village, Warriewood.

Sheet 1/3 The Ferneries (Bldg A)

Date:

14th July 09

Date.	It and 03	80					
Device Loop /Address	Device type	Point Description/Location	Correct Zone Indication on FIP (Y/N)	Fire Bell Activated (Y/N)	EWS System Activated (Y/N)	General Fire Trip Activated(Y/N)	Fire Brigade Called (Y/N)
L1S1	PHOTOOPTICAL	BASEMENT ELEC/MECH CUPBOARD	>	*	,	>	>
1182	PHOTOOPTICAL	BASEMENT LIFT LOBBY	*	>	>	,	>
L1S3	PHOTOOPTICAL	GROUND FLOOR CORRIDOR SOUTH	>	1	,	*	>
L1S4	PHOTOOPTICAL	GROUND FIRE STAIR SOUTH	>	>	>	>	`
L1S5	PHOTOOPTICAL	GROUND FLOOR CORRIDOR SOUTH	>	>	>	>	>
L1S6	PHOTOOPTICAL	GROUND FLOOR CORRIDOR SOUTH	`	>	,	>	>
L1S7	PHOTOOPTICAL	GROUND FLOOR LIFT	>	,	>	>	>
L1S8	PHOTOOPTICAL	GROUND FLOOR LIFT LOBBY CUPBOARD	,	>	>	>	>
L1S9	PHOTOOPTICAL	GROUND FLOOR ENTRY FOYER	,	>	>	>	,
L1S10	PHOTOOPTICAL	GROUND FLOOR	>	`	,	>	,
L1S11	PHOTOOPTICAL	GROUND FLOOR CORRIDOR EAST	,	*	>	>	,
L1S12	PHOTOOPTICAL	GROUND FIRE STAIR	>	>	>	>	`
L1S13	PHOTOOPTICAL	GROUND FLOOR CORRIDOR EAST	,	>	,	>	>
	TESTED BY:	Andrew Mitchell	Male				

FERNERIES_1.doc

Commissioning Checklist

(General Detection System)

Heyday Group Pty Ltd
ARN 82 121 276 168
Heyday Electrics
ACC Technologies
Heyday Communications
Heyday Fire Technologies

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Warriebrook Retirement Village, Warriewood.

The Ferneries (Bldg A)

Project: Sheet 2/3 Date:

14th July 09

Date:	14 July 09	60					
Device Loop /Address	Device type	Point Description/Location	Correct Zone Indication on FIP (Y/N)	Fire Bell Activated (Y/N)	EWS System Activated (Y/N)	General Fire Trip Activated(Y/N)	Fire Brigade Called
L1S14	PHOTOOPTICAL	HRST FLOOR	`	`	*	>	>
L1S15	PHOTOOPTICAL	FIRST FLOOR FIRE STAIR SOUTH	,	`	*	>	>
L1S16	PHOTOOPTICAL	FIRST FLOOR	>	,	,	>	`
L1S17	PHOTOOPTICAL	HRST FLOOR	`	`	*	>	>
L1S18	PHOTOOPTICAL	FIRST FLOOR LIFT	,	>	>	>	>
L1S19	PHOTOOPTICAL	FIRST FLOOR LIFT LOBBY CUPBOARD	>	`	>	>	>
L1S20	PHOTOOPTICAL	TOP OF LIFT SHAFT	`	>	>	>	>
L1S21	PHOTOOPTICAL	FIRST FLOOR	>	,	*	>	,
L1S22	PHOTOOPTICAL	FIRST FLOOR	,	1	>	>	>
L1S23	PHOTOOPTICAL	FIRST FLOOR FIRE STAIRS EAST	>	,	,	>	>
L1S24	PHOTOOPTICAL	FIRST FLOOR	>	1	*	>	>
L1S25	PHOTOOPTICAL	ROOF SPACE SOUTH	>	>	>	>	>
L1S26	PHOTOOPTICAL	ROOF SPACE SOUTH	`	,	`	>	>
	TESTED BY:	Andrew Mitchell	Male				•

FERNERIES_2.doc

Commissioning Checklist

(General Detection System)

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies Heyday Group Pty Ltd

9 Waterhoo Road North Ryde NSW 2113 Phone: (IZ) 9855 6666 Facsimile: (IZ) 9855 6655

Warriebrook Retirement Village, Warriewood.

The Ferneries (Bldg A)

Sheet 3/3 Project:

	Fire Brigade Called (Y/N)	^	*	,	. N/A		N/A		Y.Y			
	General Fire Trip Activated(Y/N)	>	>	,	NIA		NA	****	NA			
	EWS System Activated (Y/N)	>	*	>	NA		ď.	C 22	V.			
	Fire Bell Activated (Y/N)	`	`	>	N/A		ΑN	N N	Visit			
	Correct Zone Indication on FIP (Y/N)	`	>	`	N/A	N/A Input/Output Operated on Fire Trip?		Output Operated on Fire Trip?	^			MAR
6	Point Description/Location	ROOF SPACE SOUTH	ROOF SPACE EAST	ROOF SPACE EAST	FAN CONTROL BUILDING A (CEF A)	I/O MODULE INSIDE	FERNERIES FIP	LIGHTING TRIP FERNERIES(IN	BEASEMENT)			Andrew Mitchell
14th July 09	Device type	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	3 I/O DEVICE INPUT 1-FAN RUNNING OUTPUT 1- FAN START OUTPUT 2- FAN STOP OUTPUT 3- 6.F.T.	3 I/O DEVICE INPUT 1 – ALARM SIGNAL FROM I AKEI ANDS	OUTPUT 1 – ALARM SIGNAL TO LAKELANDS	SINGLE I/O DEVICE	COLLOC INCINCING			TESTED BY:
Date:	Device Loop /Address	L1827	L1S28	L1S29	L1835	· L1S36		L1S100			4	

FERNERIES_3.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies

AS1668 Fan Controls

Heyday Group

9 Waterloo Road North Ryde NSW 2113 Phone: (I2) 9855 6666 Facsimile: (I2) 9855 6655

Job No. NFC 233

Warriebrook Retirement Village, Warriewood.

Project:

The Ferneries (A)

14th July 09

Date:

Tested By: Andrew Mitchell

	COMMENTS						
are A least	SUPPLY AIK DETECTOR	N/A					
٥	FAULT	>					
INDICATIONS	STOP	>					
100		>					
FRRIDE	STOP	>					
VOOTIN	START STOP RUN	>					
VERRIDE	STOP	>					
MANUAL	START	>			7.		
FAN	DESCRIPTION START STOP	CEF-A	100				

FemeriesAS1668.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies 9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Commissioning Checklist

Heyday Group

(General Detection System)

Sheet 1/5							
	The Lake	The Lakelands(B+C)					
Date:	14th July 09	60					
Device Loop Devic	Device type	Point Description/Location	Correct Zone Indication on FIP (Y/N)	Fire Bell Activated	EWS System Activated	General Fire Trip	Fire Brigade Called
L1S1 PHOTOOPTICAL	CAL	BASEMENT METER/SWITCHBOARD ROOM	,	>	(NI)	>	>
L1S2 PHOTOOPTICAL	CAL	BASEMENT COMMS	,	>	,	1	,
	CAL	GROUND FLOOR CORRIDOR NORTH	`	>	*	,	•
L1S4 PHOTOOPTICAL	CAL	GROUND FLOOR FIRE STAIRS NORTH	,	>	,	>	>
L1S5 PHOTOOPTICAL	CAL	GROUND FLOOR ENTRY FOYER NORTH	,	,	,	,	>
L1S6 PHOTOOPTICAL	CAL	GROUND FLOOR	^	,	>	>	>
L1S7 PHOTOOPTICAL	CAL	GROUND FLOOR	,	,	*	>	>
L1S8 PHOTOOPTICAL	CAL	GROUND FLOOR	*	1	*	>	. `
L1S9 PHOTOOPTICAL	SAL	GROUND FLOOR CORRIDOR NORTH	>	,	,	>	^
L1S10 PHOTOOPTICAL	SAL	GROUNDFLOORCOMMS CUPBOARD NORTH	,	1	>	>	>
L1S11 PHOTOOPTICAL	SAL	GROUND FLOOR	>	1	,	>	^
L1S12 PHOTOOPTICAL	SAL	GROUND FLOOR	,	1	,	>	>
L1S13 PHOTOOPTICAL	CAL	GROUND FLOOR CORRIDOR SOUTH	>	,	>	>	>
TESTED BY:		Andrew Mitchell	Male				

LAKELANDS_1.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Commissioning Checklist

Heyday Group

(General Detection System)

14th July 09 Point Point	Project:	N	Warriebrook Retirement Village, Warriewood.	, Warriewood.				
14th July 09 Device type Description Leading Point Fire Bell EWS System Activated (YIN) Correct Zone Indication on Proceedings Proceded (YIN) PHOTOOPTICAL CORRIDOR SOUTH CORRIDOR CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR CORRIDOR SOUTH CORRIDOR CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR SOUTH CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR CORRIDOR SOUTH CORRIDOR CORRIDOR	Sheet 2/5		he Lakelands(B+C)					
PHOTOOPTICAL Correct Zone Indication on Correct Zone Indication CORRECT COR	Date:	14	4 th July 09					
PHOTOOPTICAL CGROUND FLOOR CURNING ROUTH CURNING ROUTH CORRUDOR SOUTH CROUND CORRUDOR SOUTH CROUND CORRUDOR SOUTH CORRUDOR	Device Loop /Address	Device typ		Correct Zone Indication on FIP (Y/N)	Fire Bell Activated	EWS System Activated	General Fire Trip	Fire Brigade Called
PHOTOOPTICAL GROUND FLOOR PHOTOOPTICAL GROUND FLOOR PHOTOOPTICAL GROUND FLOOR PHOTOOPTICAL GROUND FLOOR FIRE PHOTOOPTICAL GROUND FLOOR FIRE PHOTOOPTICAL GROUND FLOOR FIRE PHOTOOPTICAL GROUND FLOOR FIRE GROUND FLOOR FIRE PHOTOOPTICAL GROUND FLOOR FLOOR FLOOR PHOTOOPTICAL GROUND FLOOR FLOOR PHOTOOPTICAL GROUND FLOOR	L1S14	PHOTOOPTICAL	GROUND FLOOR	>	(min)	(NIL)	,	
PHOTOOPTICAL GROUND FLOOR PHOTOOPTICAL GROUND ROOF FLOOR FIRE CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR SOUTH CORRIDOR CORRIDOR SOUTH CORRIDOR CORRIDO	L1S15	PHOTOOPTICAL	GROUND FLOOR ENTRY FOYER SOLITH	,	>	>		,
PHOTOOPTICAL GROUND FLOOR FIRE CORRIDOR SOUTH CORRIDOR CORR	L1S16	PHOTOOPTICAL	GROUND FLOOR	*	*	>	. ,	. ,
PHOTOOPTICAL GROUND FLORE PHOTOOPTICAL GROUND SOUTH PHOTOOPTICAL CORRIDOR SOUTH PHOTOOPTICAL CORRIDOR SOUTH PHOTOOPTICAL LEVEL 1 FIRE STAIRS V V V V V V V V V	L1S17	PHOTOOPTICAL	GROUND FLOOR	,	,	>	. ,	. 1
PHOTOOPTICAL GROUND FLOOR CORRIDOR	L1S18	PHOTOOPTICAL	GROUND FLOOR FIRE	,	>	. \	. ,	, 1
PHOTOOPTICAL LEVEL 1 FIRE STAIRS	L1S19	PHOTOOPTICAL	GROUND FLOOR	•	>	. >	. ,	,
PHOTOOPTICAL LEVEL 1 FIRE STAIRS	L1S20	PHOTOOPTICAL	-	,	>	>	.	, ,
PHOTOOPTICAL LEVEL CORRIDOR V V V V V V V V V	L1S21	PHOTOOPTICAL		,	^	,	. ,	. ,
PHOTOOPTICAL LEVEL 1 CORRIDOR V V V	L1S22	PHOTOOPTICAL	-	>	>	. `	. ,	, ,
PHOTOOPTICAL LEVEL 1 CORRIDOR	L1523	PHOTOOPTICAL	-	>	1	*	. >	. ,
PHOTOOPTICAL LEVEL 1 CORRIDOR	L1S24	PHOTOOPTICAL	LEVEL 1 CORRIDOR	>	1	*	,	. ,
TESTED BY: PHOTOOPTICAL LEVEL 1 COMMS V V	L1S25	PHOTOOPTICAL	LEVEL 1 CORRIDOR	>	`	>		. \
	L1S26	PHOTOOPTICAL	LEVEL 1 COMMS CUPBOARD NORTH	>	,	>	>	>
		TESTED BY:	Andrew Mitchell	Male				

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies

Commissio (General Det	Warriebrook Retirement Village, Warriewood.	
Commissioning Checklist (General Detection System)		

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6655 Facsimile: (02) 9855 6655

	Fire Brigade Called (Y/N)	,	. ,	. ,	. >	,	. ,	. ,	. ,	. ,	. ,	. ,	. ,	. ,	
	General Fire Trip Activated(Y/N)	>	>	,	,	>	>		>	>	,	\ \ \	>	>	
	EWS System Activated	,	,	,	*	•	>	>	*	*	•	>	,	>	
	Fire Bell Activated	1	,	*	>	>	`	`	>	>	>	>	,	>	
	Correct Zone Indication on FIP (Y/N)	,	*	,	,	`	`	^	,	*	,	,	,	,	Male
60	Point Description/Location	LEVEL 1 CORRIDOR NORTH	LEVEL 1 CORRIDOR SOUTH	LEVEL 1 CORRIDOR SOUTH	LEVEL 1 CORRIDOR SOUTH	LEVEL 1 LIFT LOBBY SOUTH	LEVEL 1 CORRIDOR SOUTH	LEVEL 1 FIRE STAIRS SOUTH	LEVEL 1 CORRIDOR SOUTH	LEVEL 2 CORRIDOR	LEVEL 2 FIRE STAIRS NORTH	LEVEL 2 CORRIDOR	LEVEL 2 CORRIDOR NORTH	LEVEL 2 CORRIDOR NORTH	Andrew Mitchell
14 th July 09	Device type	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	PHOTOOPTICAL	TESTED BY:
Date:	Device Loop //Address	L1S27	L1S28	L1S29	L1S30	L1S31	L1S32	L1S33	L1S34	L1S35	L1S36	L1S37	L1S38	L1S39	

LAKELANDS_3.doe

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies 9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6655 Facsimile: (02) 9855 6655

Commissioning Checklist

Heyday Group

(General Detection System)

Project:		Warriebro	Warriebrook Retirement Village, Warriewood.	Warriewood.				
Sheet 4/5		The Lakel	The Lakelands(B+C)					
Date:		14 th July 09	60					
Device Loop /Address	Device	Device type	Point Description/Location	Correct Zone Indication on FIP (Y/N)	Fire Bell Activated	EWS System Activated	General Fire Trip	Fire Brigade Called
L1S40	PHOTOOPTICAL	SAL	LEVEL 2 COMMS	`	(M)	(NI)	•	[>
L1S41	PHOTOOPTICAL	SAL	LEVEL 2 CORRIDOR	,	>	>	>	,
L1S42	PHOTOOPTICAL	AL	LEVEL 2 CORRIDOR NORTH	,	>	*	>	,
L1S43	PHOTOOPTICAL	SAL	LEVEL 2 CORRIDOR	,	>	*	,	. ,
L1S44	PHOTOOPTICAL	;AL	LEVEL 2 CORRIDOR	,	>	•	. ,	,
L1S45	PHOTOOPTICAL	SAL	LEVEL 2 CORRIDOR	,	1	*	. >	. ,
L1S46	PHOTOOPTICAL	;AL	LEVEL 2 LIFT LOBBY	^	>	,	,	
L1S47	PHOTOOPTICAL	:AL	LEVEL 2 CORRIDOR	,	`	. `	. ,	, ,
L1S48	PHOTOOPTICAL	:AL	LEVEL 2 FIRE STAIRS	>	>	•	,	. 1
L1S49	PHOTOOPTICAL	:AL	LEVEL 2 CORRIDOR	>	>	>		,
L1S50	PHOTOOPTICAL	AL	ROOF SPACE NORTH	,	>	,	. /	
L1S51	PHOTOOPTICAL	AL	ROOF SPACE NORTH	^	`	. `		•
L1852	PHOTOOPTICAL	AL	ROOF SPACE NORTH	,	,	. `,	. >	>
F	TESTED BY:		Andrew Mitchell	Mass				

LAKELANDS_4.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies 9 Waterloo Road North Ryde NSW 2113 Phone: (C2) 9855 6666 Facsimile: (C2) 9855 6655

Commissioning Checklist

Heyday Group

(General Detection System)

Project:		Warriebrook	Warriebrook Retirement Village, Warriewood.	Warriewood.				
Sheet 5/5		The Lakelands(B+C)	rds(B+C)	72				
Date:		14th July 09						
Device Loop /Address	Devic	Device type	Point Description/Location	Correct Zone Indication on FIP (Y/N)	Fire Bell Activated (Y/N)	EWS System Activated (Y/N)	General Fire Trip Activated(Y/N)	Fire Brigade Called (Y/N)
L1S53	РНОТО	PHOTOOPTICAL	GROUND FLOOR MEETING ROOM	`	>	>	`	>
L1S54	РНОТО	PHOTOOPTICAL	ROOF SPACE SOUTH	,	>	1	^	^
L1S55	PHOTO	PHOTOOPTICAL	ROOF SPACE SOUTH	,	`	>	,	>
L1S56	РНОТО	PHOTOOPTICAL	ROOF SPACE SOUTH	`	>	1	,	>
L1S64	РНОТО	PHOTOOPTICAL	NORTH LIFT SHAFT DETECTOR	,	>	>	>	>
L1S65	РНОТО	PHOTOOPTICAL	SOUTH LIFT SHAFT DETECTOR	`	>	`	>	>
1281	SINGLE I INPUT 1- SI FERN OUTPUT 1-	SINGLE I/O DEVICE INPUT 1- SIGNAL FROM FERNERIES OUTPUT 1- SIGNAL TO FERNERIES	I/O MODULE INSIDE FERNERIES FIP	NA	MA	NA	NA	. N/A
L2S60	3 I/OI INPUT 1–F; OUTPU OUTPU OUTPU	3 I/O DEVICE IMPUT 1-FAN RUNNING OUTPUT 1-START OUTPUT 2-STOP OUTPUT 3-GFT	CPEF FAN CONTROL B+C	NA	N/A	V Z	NA	N/A
L2S67	SINGLE I	SINGLE I/O DEVICE INPUT1-PRESSURE SWITCH	SPRINKLER PRESSURE SWITCH	`	>	>	>	>
L2S68	SINGLE I	SINGLE I/O DEVICE CUTPUT 1- LIGHTING TRIP	LIGHTING TRIP B+C	NA	N/A	ΥN	N/A	N/A
L2S69	SINGLE I	SINGLE I/O DEVICE OUTPUT 1- SECURITY TRIP	SECURITY TRIP B+C	N/A	NA	AIN	N/A	N/A

Revision No. 4

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Andrew Mitchell

TESTED BY:

Revision No. 4

LAKELANDS_5.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies 9 Waterloo Road

AS1668 Fan Controls

Heyday Group

North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

Job No. NFC 233

Tested By: Andrew Mitchell

Warriebrook Retirement Village, Warriewood. Level/Zone/Room: The Lakelands (B+C)

Project:

14th July 09

MANUAL OVERRIDE

COMMENTS SUPPLY AIR DETECTOR STOP FAULT INDICATIONS RUN STOP AUTO OVERRIDE START STOP STOP START DESCRIPTION CEF-B FAN

LAKELANDS_AS1568.doc

Heyday Electrics ACC Technologies Heyday Communications Heyday Fire Technologies

9 Waterloo Road North Ryde NSW 2113 Phone: (02) 9855 6666 Facsimile: (02) 9855 6655

AS1668 Fan Controls

Heyday Group

Revision No. 4

LAKELANDS_AS1668.doc

WARNING: Creasing or folding will lead to rejection PLAN FORM 6 DEPOSITED PLAN ADMINISTRATION SHEET Sheet 1 of sheet(s) SIGNATURES, SEALS and STATEMENTS of intention to dedicate public roads, to create public reserves, drainage reserves, easements, restrictions on the use of land or positive covenants. PURSUANT TO SEC. 88B OF THE CONVEYANCING ACT 1919 IT IS INTENDED TO CREATE: EASEMENT FOR DRAINAGE 2.5 WIDE. [A] Registered: PURSUANT TO SEC. 88B OF THE CONVEYANCING ACT Title System: 1919 IT IS INTENDED TO RELEASE: Purpose: 2. EASEMENT FOR DRAINAGE 0.915 WIDE SHOWN SO BURDENED IN VOL 5852 FOL 70. (D768122) PLAN OF SUBDIVISION OF LOTS A & B DP358765, 3. EASEMENT FOR DRAINAGE 0.915 WIDE SHOWN SO LOTS A & B DP400488, LOT 22 SEC C DP5464 BURDENED IN VOL 5852 FOL 71. (D768122) AND LOTS 5, 6, 7 & 8 IN DP 1115877 IT IS INTENDED TO DEDICATE TO THE PUBLIC AS ROAD: 1. ROAD WIDENING OF BRANDS LANE (AT MACPHERSON STREET). 2. ROAD WIDENING (AT MACPHERSON STREET) **PITTWATER** LGA: WARRIEWOOD Locality: Parish: NARRABEEN CUMBERLAND County: Surveying Regulation, 2006 Use PLAN FORM 6A I. PETER LAURENCE NANCARROW..... for additional certificates, signatures, seals and statements of SUMMIT GEOMATIC PTY LTD..... a surveyor registered under the Surveying Act, 2002, certify that the Crown Lands NSW/Western Lands Office Approval survey represented in this plan is accurate, has been made in accordance with the Surveying Regulation, 2006 and was completed I.....in approving this plan certify on:.10/05/2008..... (Authorised Officer) that all necessary approvals in regard to the allocation of the land The survey relates to .LOTS 1 - 6..... shown herein have been given (specify the land actually surveyed or specify any land shown in the Date: plan that is not the subject of the survey) File Number: Signature . Dated: 191712008 Surveyor registered under the Surveying Act, 2002 Subdivision Certificate I certify that the provisions of s.109J of the Environmental Planning and Datum Line: "X"~"Y".... Assessment Act 1979 have been satisfied in relation to: Type: Urban/Rural the proposed...... set out herein (insert 'subdivision' or 'new road') Plans used in the preparation of survey/compilation DP 581495 DP 972209 DP 579309 DP 228171 DP 537054 DP 553816

DP 400488 DP 1088226 DP 208149 * Authorised Person/General Manager/Accredited Certifier DP 1071760 DP 1080979 DP 270426 DP 647935 DP 5671414 DP 1011273 Consent Authority: DP 349085 DP 581495 DP 358765 Date of Endorsement: DP 942319 DP 5464 Accreditation no: DP 345528 Subdivision Certificate no: DP 1115877 (if insufficient space use Plan Form 6A annexure sheet) File no: SURVEYOR'S REFERENCE: 2644-STG2 Detete whichever is inapplicable.

SURVEY REPORT

PLAN OF SUBDIVISION No.6 - 14 MACPHERSON STREET, WARRIEWOOD:

Lot A & B DP 358765, Lot A & B DP 400488, Lot 22 SEC C DP 5464 AND Lots 5, 6, 7 & 8 DP 1115877

SURVEYORS REFERENCE: 2644-STG2

DATE: 10/05/2008

The survey was completed in May 2008. The purpose of the survey is to subdivide nine lots into six, dedicate road widening and create a public reserve.

The rear of the property is bounded by Narrabeen Creek.

The original position of this creek has been altered substantially due to the construction of a channel which cuts across the subject lots and removing the original 'dogs leg' section of the creek. From accounts by neighboring landholders this work was carried out by the council approximately thirty years ago to ease the flow of water and reduce flooding in the area. Dredging work along the channel was also carried out at various times to maintain the flow of the creek.

Adjacent properties to the west (fronting Macpherson Street) have had substantial fill placed adjoining and over the original creek position which has largely obliterated the natural water course.

AZIMUTH OF SURVEY

The datum line of azimuth adopted was between SSM 145906 FD (EST.) and PM 15783 FD (EST.), being a line of bearing 81°49'48" MGA and a distance of 662.314 by survey. Confirmation to five other established marks showed good agreement between observed and calculated positions.

BOUNDARY DEFINITION

Boundary redefinition of Warriewood Road and Macpherson Street frontages was established from recent and older plans dating back to 1906.

In particular DP 1071760 was used to redefine Warriewood Road frontage and DP 1080979 was used to define Macpherson Street frontage. Very good agreement was found between these plans and surveyed positions of marks. A registered plan of subdivision carried out by myself (DP 1115877) was also used as a basis for the definition.

Page 1 of 5

Remaining marks were also found to be in good agreement.

Creek Boundary

Observations to the northern and southern banks were taken using electronic total station from a closed traverse to determine the current position of Narrabeen Creek adjoining the surveyed land.

As discussed above, the present position has altered significantly since the creek was plotted in 1906 by DP 5464. The original position cannot be determined due to extensive fill and excavation which has been ongoing for many years.

In order to determine the original position of the creek the position as plotted by DP 5464 was traced. Short lines representing the original creek position were created to re define the boundary. DP 5464 was chosen as the creek has been shown clearly over a extended section of the creek. Agreement between Macpherson Street and Warriewood Road was also very good with original distances available at the eastern side of the surveyed lots.

The land on the southern side of the redefined creek position is to be dedicated a public reserve. Land to the north of the creek will also be dedicated in the future as public reserve when development takes place.

Lots 1 – 5 in the plan are to be developed into a retirement village by Anglican Retirement Villages.

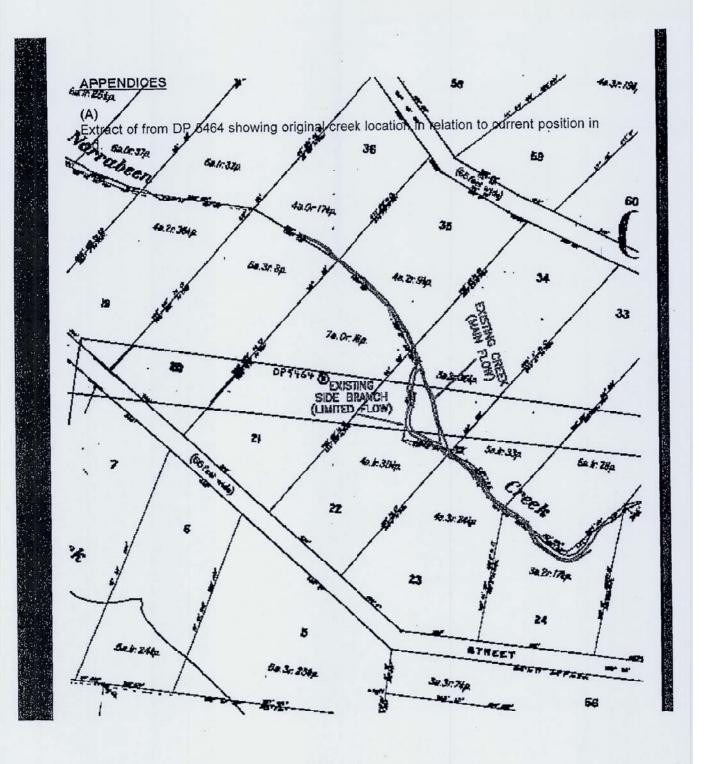
ENCROACHMENTS

No encroachments were discovered during the course of the survey with the exception of fencing as shown on the plan

Peter Nancarrow Registered Surveyor Summit Geomatic Pty Ltd Ph 02 9891 1490

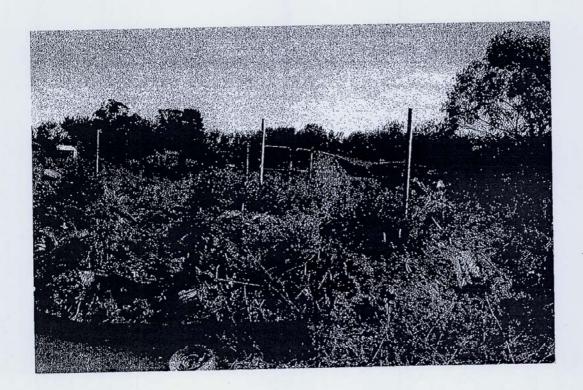
10th May 2008

Page 2 of 5



Page 3 of 5

(B) Photo of Narrabeen Creek easternmost corner of proposed lot 3 looking to the southwest.



(C) Photo of Narrabeen Creek (new channel) near south east corner proposed lot 3 looking to the south.



SMOKE DOORS - INSTALLATION CERTIFICATE - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The smoke doors nominated below have been installed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Smoke doors	BCA2008 Specifications C2.5 and C3.4 and AS 1288 – 2006

Door ID #	Door ID #	Door ID#
24489/24487 Ferneries Ground	24452/24453 Lakelands Level 2	
24490/24486 Ferneries Level 1		
24448/24449 Lakelands Ground		
24442/24443 Lakelands Level 1		

b)	I am a properly qualified person and have a good working knowledge of the relevant codes and standards
	referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:_	Six years involved in production, manufacture and testing of fire rated	
doors		

c)	The information contained in this statement is true and accurate to the best of my	knowledge
----	--	-----------

Name of Certific	er: Michael Fergusson		****	
Company	Ikon Doors Pty			
Address:	7B Tilley Lane French	ns Forest NSW 2086		
Phone No	(02) 9451 3511	Fax No.	(02) 9451 3566	

ignature 3.08.09
Date

WATERPROOFING OF WET AREAS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1	
Address	6-14 Macpher on Street Warriewood NSW 2101	
Part of Building to be certified	fied All new work (entire building)	

I hereby certify that:

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Waterproofing of wet areas	BCA2008 Clause F1.7 and AS 3740 – 2004 and installed in accordance with the manufacturer's recommendations

 I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations: The Superseal Group Waterproofing Licence: 205741C

Tremco approved applicator

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: David Scott

Company: The Superseal Group Pty Ltd

Address: Unit 10.9 Ladbroke Street , Milperra NSW 2214

Phone No. 02 9773 4963 Fax No. 02 9773 4965

Signature

10 July 2009

Date

WATERPROOFING WORKS: SUMMARY OF COMPLIANCE METHODS

Wall/floor types waterproofed	Concrete floors, Gyprock	
Product type and brand – floor	Tremco Vulkem NEM	
Product type and brand - walls	Tremproof 90	
Product used as bond breaker	Dymonic NT	
Enclosed or open (frameless) showers?	Frameless	
Waterstop angle locations?	Door entrance (Laundry & Powde	er Room) and shower recess

Schedule of Areas waterproofed.

Unit or level #	Main Bathroom & Ensuite (if applicable)	Laundry	Balcony
Units 1 to 64	YES	YES	YES
5. 40			

Other areas waterproofed (roofs, planter boxes, landscaped areas, etc.)

Location	Description	
Tiled Drying Rooms	Throughout Ferneries & Lakelands Buildings	
Tiled Ground Floor Terraces	Throughout Ferneries & Lakelands Buildings	

ATTACH MANUFACTURERS DATA SHEET FOR ALL PRODUCTS USED

THEME

Vulkem Non-Exposed Membrane

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02/05 2 Pages

PRODUCT

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ARREST

TERRIES.

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Asia Asia Asia Asia

ONE PART URETHANE WATERPROOFING MEMBRANE

Key Benefits Summary Permanently flexible 600% Meets requirements of AS3740-2004 Compatible with TREMfix ceramic tile adhesive Primerless single pack product Compatible with Metz C26 tile adhesive High strength and puncture resistant Vertical and horizontal applicationsd ... п Easy to apply Resistant to range of chemicals and pollutants

PRODUCT INFORMATION

DESCRIPTION

Vulkem Non-Exposed Membrane is a single pack elastomeric, moisture curing high tensile strength and tough curing polyurethane membrane. It cures to form a rubber membrane surface that provides watertight substrates.

Vulkem Non-Exposed Membrane may be used to apply a seamless, monolithic waterproof membrane to concrete substrates, AC sheeting compressed, timber decks which are well anchored and primed. Simple, easy to follow procedures and use of conventional equipment and tools or spray equipment permit fast, sure and secure application.

BASIC USES

□ Wet Areas
□ Roof Terraces
□ Decks

☐ Laundries

☐ Decks ☐ Concrete Substrate Plazas ☐ Balconles ☐ Shower Recesses

USAGE GUIDELINES

One part urethane, Vulkem Non-Exposed Membrane bonds firmly to clean, dry concrete and well anchored wood substrates. It retains its integrity even if substrate movement causes hairline cracks of up to 1.5mm. If cut or damaged, Vulkem Non-Exposed Membrane will prevent water migration between it and its substrate. Vulkem Non-Exposed Membrane can be finished after a 48-72 hours cure at temperatures over 15.6°C. A Quick Cure Catalyst can be utilized for a fast track application procedures.

SUBSTRATE PREPARATION

☐ Concrete should be cured for 21-28 days

☐ Remove all dirt, dust, plaster, cement droppings, protrusions, oil and other contaminants. Fill screw holes ☐ To the wail/floor junctions and the floor/hob, hob/wall joints within the shower tray, apply fillet bead of Tremco PU1 Polyurethane Sealant as a bond breaker. Apply sealant around floor penetrations, tap and shower rose and other discontinuities. Floor wastes in concrete shall be cut level with the floor. For sheet flooring, leak control flanges shall be fitted and fully sealed.

☐ Cracks: non movement and hairline cracks may be filled with a brush coat of Vulkem Non-Exposed Membrane. Movement cracks to be routed out, cleaned and filled with Tremco PU1 Polyurethane Sealant.

PRIMING

Ullkem Non-Exposed Membrane is generally a primerless membrane on most clean substrates

All wood surfaces are to be primed using Vulkem

☐ All metal surfaces are to be primed using Vulkem Primer 181

☐ Existing urethane membrane surfaces are to be primed using Vulkem Primer 191.

METHOD OF APPLICATION

☐ Mix the Vulkem Non-Exposed Membrane to ensure no settlement of the material is in the bottom of the pall and the colour of the material is consistent with no streaks or striations

☐ All internal wet areas should be waterproofed to meet AS 3740-2004 requirements

☐ Apply one coat of Vulkern Non-Exposed Membrane at specified coverage rates using both brush, roller or squeegee

☐ Ensure the membrane is turned down into the floor waste or well sealed around the leak control flange and other penetrations. Ensure flashing angles are properly sealed across doorways. Check for cracks in the membrane when dry and rectify

☐ Tremco TREMfix Tile Adhesive should be used to adhere tiles directly to membrane

 A light broadcast of sand into the Vulkern Non-Exposed Membrane may be introduced when adhering directly to the membrane

COVERAGE

□ Approximately 1.2L/m² at a dry film thickness of 1.0mm (approximately 16m² per 18.9L pail) to achieve the waterproof requirements as stated in AS 3740-2004

Approximately 0.6L/m² at a dry film thickness of 0.5mm (approximately 32m² per 1.89L pail) to achieve water resistant requirements as stated in AS 3740-2004 (vertical applications).

THEMED

Vulkem **Non-Exposed** Membrane

TECHNICAL INFORMATION

TYPICAL PHYSICAL PROPERTIES

Property Test Method Result Tensile ASTM D-412 2MPa Elongation ASTM D-412 600% **ASTM D-412** 414kPa S100 Hardness (Shore A) ASTM C-661 20 30lbs,100% coh on

ASTM C-794 Peel Strength

Permeability

0.12metric perms

UL 790 CLASS A FIRE RATING CAN/ULC - S102.2 - MBB CLASS A RATING

Wet Material Properties

Non Volatile Content ASTM D-1353 79% min Viscosity, cps Brookfield HBT 8-10,000 Viscosity, cps Cure Time ASTM D-1640 48 Hours max.

@ 25°C - 50% R.H

Setaflash Flash point

AVAILABILITY

Vulkem Non-Exposed Membrane is available through your nearest Tremco office

· HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this werranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

TREMCO PTY LTD ABN 25 000 024 064 Unit 1, 2 Park Rd, RYDALMERE NSW 2116 Australia Tel: (02) 9638 2755 Fax: (02) 9638 2955 tremco@tremco.com.au

THEMED

10/00 2 Pages

PRODUCT DATA SHEET

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TREMproof® 90

A TWO PART LIQUID APPLIED COPOLYMER MEMBRANE WITH FIBROUS REINFORCEMENT

Key Benefits Summary Simple application, water based Fast drying Tile in 24 hrs Good flexibility No reinforcement Seamless, no joints or cracks UV Stable П Low odour, non toxic

PRODUCT INFORMATION

DESCRIPTION

TREMproof® 90 is a two part liquid applied co-polymer membrane with fibrous reinforcement.

TREMproof® 90 cures rapidly to form a flexible waterproof lining for showers and other wet areas as described in the Australian Standard A3740-1994 "Waterproofing wet areas within residential buildings."

TREMproof® 90 forms a waterproof lining to most building materials including reinforced concrete, cement render, water resistant plaster board, and fibre reinforced cement sheet flooring. etc. The surface must be firmly fixed to manufacturers direction, clean and dry.

TREMproof 90 is suitable to external use on light pedestrian trafficable decks, parapets and flashings.

USAGE/PURPOSE

For waterproofing;

- ☐ Showers and wet areas
- ☐ Light traffic areas
- ☐ Tiles, decks and balconies

PACK SIZE

20 Kg powder + 20 Litres Liquid = 30 Litres mixed.

COLOUR

☐ Green

TECHNICAL INFORMATION

GENERAL

- ☐ COVERAGE
 - 1.5 Litres/sq metre/1.2mm (Dry Film Thickness)
- ☐ NUMBER OF COATS

2-3

□ TOUCHDRY

Approx 3 hours at 0.6mm DFT, 22 degrees C

□ COLOUR

Green

☐ CLEANUP

Water (before curing)

☐ TOXICITY

Non toxic

SOLVENTRESISTANCE

Not resistant

☐ WEATHER RESISTANCE

Good

☐ SHELFLIFE

6 months in dry storage

☐ MIXRATIO

Powder 1Kg, Liquid 1litre

□ POTLIFE

Use within 3 hours of mixing

☐ PACKAGING

(20litre liquid) + (20Kg powder) = 30litres mixed

NOTE: Typical Properties should not be used as Specifications.

USAGE GUIDELINES

SUBSTRATE PREPARATION

- Remove all dirt, dust, plaster and cement droppings, protrusions, oil and other contaminants. Fill screw holes
- Apply a bond breaker tape (eg PVC duct tape) over sheet flooring joints. To the wall/floor junctions and the floor/nob, hob/well joints within the shower tray, apply approx 8mm silicone or P.U. sealant or foam backing rod as a bond breaker. Apply sealant aound floor penetrations, tap and rose plumbing and other discontinuities. Floor wastes in concrete shall be cut level with the floor. For sheet flooring, leak control flanges shall be fitted and fully sealed.



TREMproof® 90

□ Cracks - non movement and hairline cracks may be filled with a brush coat of Tremproof® 90. Movement cracks shall be routed out, cleaned and filled with silicone sealant. Apply a reinforcing bandage embedded in Tremproof® 90 and allow to dry.

PRIMING

- Prime all surfaces with Tremproof® 90 WB Primer. External surfaces shall be primed with Tremproof® 100 primer.
- ☐ All metal surfaces are to be primed using a zinc rich primer.

METHOD OF APPLICATION

- Mixing stir powder component into half the liqid until smooth, stand for 5 minutes, re-stir and add the balance of the liquid.
 DO NOT add water to mixture before or during use.
- Apply two or more coats of Tremproof® 90 to the floor and covered areas to ensure a minimum dry film thickness of 1.2mm Apply one or two coats to wall areas above the shower tray to a dry film thickness of .5mm. Use brush of short nap roller for walls.

Ensure the membrane is turned down into the floor waste or well sealed around the leak control flange and other penetrations. Ensure flashing angles are properly sealed across doorways. Check for pinholes, missed or cracks in the membrane when dry and rectify.

PRECAUTIONS

Do not apply at above 35 °C or below 6 °C. Areas subject to rising damp or back pressure should be first sealed with an epoxy coating. Cold damp conditions retard cure - allow plenty of air flow to aid drying. Do not apply excessive thickness to internal corners or shrinkage cracking may occur. Make sure that the membrane is fully dry before tiling over, normally 1-3 days. Protect membrane against damage before and during tiling - very important on timber floors. Do not apply more than 1.2mm DFT per coat or reduced flexibility will occur.

Tremproof® 90 is suitable for tiling over. Use standard cement or water based tile adhesive. Do not use solvent based adhesives.

HEALTH & SAFETY PRECAUTIONS

The Material Safety Data Sheet (MSDS) must be read and understood prior to use.

STORAGE

Dry storage

SHELF LIFE

6 months in dry storage

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales
Representatives. For more detailed information or service and
advice call Customer Service on (02) 9638 2755 or fax
(02) 9638 2955.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability in the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

TREMCO PTY LTD ABN 25 000 024 054
Unit 1, 2 Park Rd, RYDALMERE NSW 2116 Australia
Tel: (02) 9638 2755 Fax: (02) 9638 2955
tremco@tremco.com.au

THEMED

Dymonic NT

HIGH PERFORMANCE, ONE PART, LOW MODULUS POLYURETHANE ELASTOMERIC SEALANT

LIMITATIONS

Dymonic NT is not recommended for:

- ☐ Prolonged immersion in water.
- ☐ Application over damp or contaminated surfaces

07/06 2 Pages

PRODUCT DATA SHEET

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- ☐ Exposure to harsh chemicals
- ☐ Special architectural finishes without prior testing
- ☐ Certain grades of marble and stone work without prior testing and additional surface preparation

COLOURS

White, Black, Buff, Aluminium Stone, Dark grey

PACKAGING

Dymonic NT is packaged in 600ml sausages (20 per carton)

TECHNICAL INFORMATION

COMPOSITION

Dymonic NT is a one part moisture curing polyurethane sealant.

CHARACTERISTICS (Typical values) SPECIFIC GRAVITY 1,28

PERFORMANCE (Typical Properties)

- ☐ CONSISTENCY (Boeing Jig) Non-sag
- SKIN FORMING TIME (at 23°C, 50% RH)
- 40 minutes
 ☐ CURE RATE (at +23°C, 50% RH)
- 4mm/1st day 10mm/6 days
- □ TENSILESTRENGTH 0.26 MPa
- ULTIMATE ELONGATION
- 634%
- MODULUSAT100% ELONGATION
- HARDNESS SHORE'A'
- ☐ ELASTIC RECOVERY
- 89%
- SERVICETEMPERATURE RANGE
- MOVEMENT CAPABILITY

NOTE: Typical Properties should not be used as specifications.

Key Benefits Summary

- ☐ One component, ready for use.
- Excellent unprimed adhesion to most building substrates.
- ☐ Wide Movement Accommodation: +100% / -50%
- ☐ Good resistance to u.v. weathering and ageing.
- Rapid cure, even at low temperatures and low humidity.
- □ Non-staining on most substrates.

Standards

Dymonic NT meets the requirements of BS EN ISO 11600 F-25LM, DIN 18540 F, SNJF elastomere 1ere cat and CAF approved. Conforms to US Federal Specification TT-S-230C, Type II, Class A and ASTM C920 Type S, Grade NS, Class 25 Use NT, G, A and M.

PRODUCT INFORMATION

DESCRIPTION

Dymonic NT is a high performance, low modulus, one part, moisture curing polyurethane sealant.

USAGE/PURPOSE

Dymonic NT is a versatile joint sealing compound for building construction. It is used in :

☐ Civil and industrial expansion and connecting joints in architectural and heavy construction, between concrete, brickwork, natural and artificial stone, steel, aluminium, wood, ceramic tiles, rigid plastics etc.,

Designed for sealing dynamically moving joints in:

☐ Precast concrete construction and curtain wall joints.

Suitable for sealing :

☐ Wide vertical joints up to 100mm

Also for perimeter caulking and bedding of:

□ Windows, doors, panels etc.,



Dymonic NT

USAGE GUIDELINES

JOINT DESIGN CONSIDERATIONS

- □ Joints should be designed in accordance with BS 6093
 □ For the purpose of joint width calculation in BS6093 the MAF of Dymonic NT is +100% to -50%
 □ For collamor performance, the width to death ratio of Dymonic.
- ☐ For optimum performance, the width to depth ratio of Dymonic NT should be 2:1 subject to a minimum depth of 10mm on porous substrates and 6mm on non-porour substrates
- A maximum depth of 15mm should be maintained for joint widths of 30mm or more.
- □ Sealant width should never be less than sealant depth
 □ For fillet joints the minimum bite onto each surface should be 10mm for porous substrates and 6mm for non-porous substrates

SURFACE PREPARATION

- Joint faces should ideally be clean, dry, sound and free from grease and any other contaminants likely to impair adhesion
- Loose friable material must be removed and arrisses made good
- Extensive laboratory tests and field experience has shown that Dymonic NT exhibits no staining on a number of different substrates. If substrate is unusual, then TREMCO recommend testing.

SEALANT BACKING

- Install smooth faced, closed cell polyethylene foam rod under 20% - 30% compression
- □ Sealing backing is installed to:
 - prevent sealant adhesion to the rear of the joint pocket "Three sided adhesion"
 - control the depth of the sealant
 - provide a firm base for tooling
- Where joint depth is insufficient to allow the use of a polyethylene foam rod, a silicone faced self adhesive bond breaker tape should be used

PRIMING

 Dymonic NT provides excellent unprimed adhesion to most common building substrates, however, based on the results of inhouse testing, a primer maybe recommended for certain installations/applications

METHOD OF APPLICATION

- Application should be in accordance with BS 8000:16 "Code of practice for sealing joints in buildings using sealants"
- ☐ Apply between +5°C and +50°C
- All beads should be tooled after application to ensure firm, full contact with the joint faces

COVERAGE RATE

(Approximate Linear Metres per 600ml sausage)

WDTH 6mm 10mm 20mm 25mm

DEPTH (min)
6mm 16.7 10.0 - - 10mm - - - 3.0 12mm - - - 2.0

CLEANING

Immediately remove excess sealant and smears adjacent to the joint (use masking tape where appropriate). Equipment may be cleaned with xylol or toluol while sealant is in an uncured state.

STORAGE

- ☐ Store in dry conditions between +5°C and +25°C. The storage temperature should not exceed +25°C for extended periods of time.
- ☐ Keep away from heat sources

HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

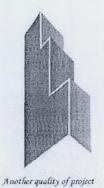
GUARANTEEWARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warrantles expressed or implied.

TREMCO PTY LTD ABN 25 000 024 064
Unit 1, 2 Park Rd, RYDALMERE NSW 2116 Australia
Tel: (02) 9638 2755 Fax
tremco@tremco.com.au (02) 9638 2955





ACCESS PANELS, DOORS AND HOPPERS TO FIRE RESISTING SHAFTS - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpheison Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

a) The drawings and specifications have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Access panels, doors and hoppers to fire restisting shafts	BCA2008 Clause C3.13 and AS 1530.4	

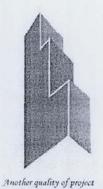
b) The infor	mation contained in this statement	is true and accurate to the best of my knowledge.
Name:	Willis Woo	
Company	Sydney Plaster Pty Ltd.	
Address:	Unit 18, 6-20 Braidwood Stree	et, Strathfield South NSW. 2136.
Phone No	(02) 9742 5988	Fax No. (02) 9742 5999

Date

2 June 2009

Signature

Pane 1 of 7





FIRE SEALS PROTECTING MISCELLANEOUS GAPS JOINTS AND PENETRATIONS IN FIRE RESISTING COMPONENTS OF THE BUILDING - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

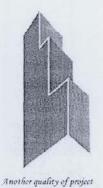
a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire seals protecting openings in fire resisting components of the building- Joints, gaps and miscellaneous penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.

		have a good working knowledge of the relevant codes a and accreditations are listed below)
Relevant qua	lifications and accreditation	s:Dry Plasterer License Number: 204271C
c) The infor	mation contained in this sta	tement is true and accurate to the best of my knowledge
Name:	Willis Woo	
Company:	Sydney Plaster Pty Ltd.	
Address:	Unit 18, 6-20 Braidwood	Street, Strathfield South NSW. 2136.
Phone No	(02) 9742 5988	Fax No.(02) 9742 5999
		02106/09

2 June 2009

Pana 2 of 7





LIGHTWEIGHT CONSTRUCTION (FIRE RATED) - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

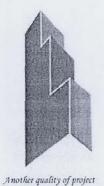
2 June 2009

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance		
Lightweight construction (fire rated)	BCA2008 Specifications C1.8 and A2.3 and A	\S 1530.4	

	operly qualified person and have ad above. (My qualifications and	a good working knowledge of the relevant codes and standards accreditations are listed below)
Relevant qua	lifications and accreditations:	Dry Plasterer License Number: 204271C
c) The inform	mation contained in this stateme	nt is true and accurate to the best of my knowledge.
Name:	Willis Woo	
Company:	Sydney Plaster Pty Ltd.	
Address:	Unit 18, 6-20 Braidwood Stre	et, Strathfield South NSW. 2136.
Phone No	(02) 9742 5988	Fax No. (02) 9742 5999
	2-	02/06/09
Signature		Date

Pana 3 of 7





FIRE RESISTING CONSTRUCTION - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

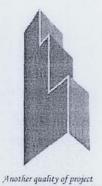
a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire resisting construction	BCA2008 Part C2, AS 1170.1 - 1989, AS 1170.2 - 1989, AS 1170.4 - 1993, AS 3600 - 2001, AS 3700 - 2001, AS 4100 - 1998 and in accordance with a tested prototype to the scheduled Architects drawings.

Relevant qual	ifications and accreditations:_	Dry Plasterer License Number: 204271C
c) The inform	mation contained in this staten	nent is true and accurate to the best of my knowledge.
Name:	Willis Woo	
Company:	Sydney Plaster Pty Ltd.	
Address:	Unit 18, 6-20 Braidwood S	Street, Strathfield South NSW. 2136.
Phone No	(02) 9742 5988	Fax No. (02) 9742 5999
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		02/06/2009

2 June 2009

Pana A of 7





FIRE RESISTING CONSTRUCTION – PLASTERBOARD WALLS AND/OR CEILINGS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1	
Address	6-14 Macpherson Street Warriewood NSW 2101	
Part of Building to be certified	All new work (entire building)	

I hereby certify that:

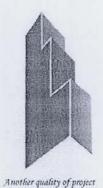
 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire resisting construction (Plasterboard walls and/or ceilings)	BCA2008 Part C2 and in accordance with an approved Manufacturer's system as required by the Architects drawings.

Relevant qual	ifications and accreditations:	Dry Plasterer License Number: 204271C	
c) The inform	mation contained in this statement	is true and accurate to the best of my knowledge.	
Name:	Willis Woo		
Company:	Sydney Plaster Pty Ltd.		
Address:	Unit 18, 6-20 Braidwood Stree	et, Strathfield South NSW. 2136.	
Phone No	(02) 9742 5988	Fax No. (02) 9742 5999	
6	2 8	22/2/12	
		02/06/2009	
		Date	

2 June 2009

Pane 5 of 7





SOUND INSULATION - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1	
Address	6-14 Macpherson Street Warriewood NSW 2101	
Part of Building to be certified	All new work (entire building)	

I hereby certify that:

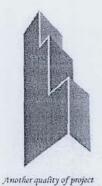
 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Sound insulation	BCA2008 Part F5, Specification F5.2 and Specification F5.5, AS/NZS 1276.1 - 1999 or ISO 717.1 – 1996 and AS/ISO 717.2 - 2004

Relevant qual	ifications and accreditations:	Dry Plasterer License Number: 204271C
c) The infor	mation contained in this statement	is true and accurate to the best of my knowledge.
Name:	Willis Woo	
	Sydney Plaster Pty Ltd.	
	Unit 18, 6-20 Braidwood Stree	et, Strathfield South NSW. 2136.
	(02) 9742 5988	
	2-3	
	2-3	02/06/2009

2 June 2009

Pana 6 of 7





SARKING - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1	
Address	6-14 Macpherson Street Warriewood NSW 2101	
Part of Building to be certified	All new work (entire building)	

 I hereby certify that:
 a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	ulhe	
Sarking for roof and walls	BCA2008 F1.6 and AS/NZS4200.1 and .2		

	fications and accreditations: Dr	y Plasterer License Number:	204271C
c) The inform	nation contained in this statement	is true and accurate to the b	est of my knowledge.
Name:	Willis Woo		
Company:	Sydney Plaster Pty Ltd.		
Company: Address:	Sydney Plaster Pty Ltd. Unit 18, 6-20 Braidwood Stree	et, Strathfield South NSW. 2	136.

Signature

Date

02/06/2009

2 June 2009

Pana 7 of 7



ERBAS & ASSOCIATES Pty. Ltd.

Building Services Consulting Engineers ACN 077 132 266 ABN 57 077 132 266





Endorsed Company

PO Box 41 St Leonards NSW 1590

Level 1, 15 Atchison Street, St Leonards NSW 2065 Tel: (02) 9437 1022 Fax: (02) 9437 1025 Email: general@erbas.com.au

Website: www.erbas.com.au

VENTILATION (GENERAL) - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

a) The drawings and specifications have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Ventilation (general)	BCA2008 Clause NSW F4.5(b) and AS 1668.2 - 1991	

a) I am a pr	operly qualified person and dards referenced above. (N	d have a good wo	rking knowledg	ge of the relevant codes ns are listed below)
Relevant que	alifications and accreditate, Affiliate M, CIBSE			
MAGIICAL	, Almate M, CIBOL			
b) The info	rmation contained in this s	statement is true a	nd accurate to t	he best of my knowledge.
Name:	Ken Erbas			
Company:_	Erbas & Associates Pty	Ltd		
Address:	L1 15 Atchison Street	St. Leonards		
Phone No	(02) 9437 1022		Fax No	(02) 9437 1025
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Signature		Date		

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ERBAS & ASSOCIATES Pty. Ltd.

Building Services Consulting Engineers ACN 077 132 266 ABN 57 077 132 266

PO Box 41 St Leonards NSW 1590

Level 1, 15 Atchison Street, St Leonards NSW 2065 Tel: (02) 9437 1022 Fax: (02) 9437 1025 Email: general@erbas.com.au

Website: www.erbas.com.au



FIRE DAMPERS - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

a) The drawings and specifications have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire dampers	BCA2008 Clause C3.15 and AS/NZS 1668.1 – 1998 (AS 1682.1-1990 and AS 1682.2-1990)

a) I am a pro and stand	operly qualified person an ards referenced above. (M	d have a good worki Iy qualifications and	ng knowledg accreditation	e of the relevant codes as are listed below)
	lifications and accreditate Affiliate M, CIBSE	ions: B.Sc, M.sc. N	IIEAust, CPE	Eng, MAIRAH,
b) The infor	mation contained in this s	statement is true and	accurate to the	ne best of my knowledge.
Name:	Ken Erbas			
Company:	Erbas & Associates Pty	Ltd		
Address:	L1 15 Atchison Street	St. Leonards		
Phone No	(02) 9437 1022		Fax No	(02) 9437 1025
He		22/05/	12009	
Signature		Date		

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HANDOVER DOCUMENTATION



10 July 2009

Document # 529 File Code: ARV-5 / 0404

rentokill PO Box 164

MARULAN NSW 2579

Att: Des Collis Fax: 93197841

RE: TERMITE PROTECTION WARRANTY

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

Please be advised that Southern Cross Constructions (NSW) Pty Ltd have activated the termite protection warranty for 'Trithor' for the Warriewood Project. This form has been attached for your reference, and the original shall be posted to your office (PO Box 164, Marulan NSW 2579).

This warranty is for 50 years. In 7 years, upon expiration of the 7 year builders warranty, the official name that this warranty applies to is to be changed to the Building Owner 'Anglican Retirement Villages' for the remaining period, details as follows:

Anglican Retirement Villages Level 2, Century Corporate Centre 62 Norwest Bvd Baulkam Hills NSW 1755

Phone: 9421 5319 Fax: 9421 2217

Should you have any questions relating to the above please contact the undersigned

Regards

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager

Anglican Retirement Villages Michael Lockwood Fax: 9421 2217

Southern Cross Constructions (NSW) Pty Ltd

135-153 New South Head Road Edgecliff NSW 2027 Tel:02 9363 1111 Fax:02 9363 0011 Email:scc@southerncrossgroup.net

A.B.N.78 083 223 107 Lic.No.119353C

TRITHOR

TRITHOR WARRANTY **ACTIVATION FORM**

To initiate your Inthor Termite Protection Walfanty you must complete the form in full and return is to your Trithor Authorised Installer within 30 days of taking possession of your nev

I have read and understood all the information contained in the Trithor Information kit including the details of the Trithor Termite: Damage Warranty. I now wish to activate my Warranty.

Signature:

Address where Trithor is installed: Lot #

Suburb: Warnewood

Mail Address if different:

Trithor Warranty #:

Mobile: 0420960 254

Email: terrye@ Southerncross

YOU MUST COMPLETE THIS FORM TO ACTIVATE YOUR WARRANTY



The Fernenes & Lakeland

OU HAS

_ Completion Date:

(02) 9363

Telephone: _



*Subject to Annual Inspection. Refer to the warranty document for complete details.

RITOOR

Certificate of Compliance in accord AS 3660.1

This Certificate is to certify that Trithor Termite Protection was installed by a Trithor Authorised Installer in accord with the specifications of the manufacturer, Ensystex Australia Pty Ltd. Trithor Termite Protection complies with the requirements of AS 3660.1 Termite management - New building work the referenced Standard of the Building Code of Australia. Trithor Termite Protection forms part only of the termite management system for a new property. A concrete slab constructed in accordance with AS 2870 Residential slabs and footing construction is also required.



NB a copy of this Report is to be attached to the Trithor Termite Damage Warranty No: 2009-01-0004337STB

Installation Date:

14 January 2009

Installation Address: 6-14 Macpherson Street

WARRIEWOOD NSW 2102

Builder:

Southern Cross Constructions

Building Description:

Residential Building

Total Square Metres Installed:

Nº of Service Penetrations Protected: 0

Lineal Metres of Building Protected:

Trithor Authorised Operator:

Safeguard Termite Barriers.

Authorisation No: 14796

Address:

PO Box 164

Marulan, NSW 2579

Phone: 1300 855 822

Comments:

Installed Trithor Termite protection to the perimeter cavity only of the residential building on site.

Signed by:

*Trithor is a Trademark of Ensystex Inc.

COC-STB 3 01 2.09

Page 1 of 1

TRITOOR WAYS BETTER TERMITE PROTECTION

Trithor* Termite Protection System

PAGE 1

Site Installation Report

This Site Installation Report is to certify that Trithor Termite Protection was installed by a Trithor Authorised Installer in accord with the specifications of Ensystex Australia Pty Ltd. Trithor Termite Protection complies with the requirements of AS 3660.1 Termite management - New building work the referenced Standard of the Building Code of Australia. Trithor Termite Protection forms part only of the termite management system for a new property. A concrete slab constructed in accord with AS 2870 Residential slabs and footing construction is also required. This report forms part of the Certificate of Installation required by AS 3660.1.

NB a copy of this Report is to be attached to the Trithor Termite Damage Warranty No: 2009-01

Installation Date: 14 -1 -0	9	Builder:	SOUTHERN	CROSS
Installation Address: 6-14 MA	CPHERSON	-	Comsil	200179019
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*Trithor is a Trademark of Ensystex Inc. For use by Trithor Authorised Installers only.

TRITOOR WAYS BETTER TERMITE PROTECTION

Trithor* Termite Protection System

PAGEZ

Site Installation Report

This Site Installation Report is to certify that Trithor Termite Protection was installed by a Trithor Authorised Installer in accord with the specifications of Ensystex Australia Pty Ltd. Trithor Termite Protection complies with the requirements of AS 3660.1 Termite management - New building work the referenced Standard of the Building Code of Australia. Trithor Termite Protection forms part only of the termite management system for a new property. A concrete slab constructed in accord with AS 2870 Residential slabs and footing construction is also required. This report forms part of the Certificate of Installation required by AS 3660.1.

NB a copy of this Report is to be attached to the Trithor Termite Damage Warranty No: 2009-01

14-1-09 Builder: Southber Cross Installation Date: Installation Address: 6-14 MACPHERSON Legend HH PERIMETER

^{*}Trithor is a Trademark of Ensystex Inc. For use by Trithor Authorised Installers only.

TRITOR WAYS BETTER TERMITE PROTECTION

Trithor* Termite Protection System

Site Installation Report

This Site Installation Report is to certify that Trithor Termite Protection was installed by a Trithor Authorised Installer in accord with the specifications of Ensystex Australia Pty Ltd. Trithor Termite Protection complies with the requirements of AS 3660.1 Termite management - New building work the referenced Standard of the Building Code of Australia. Trithor Termite Protection forms part only of the termite management system for a new property. A concrete slab constructed in accord with AS 2870 Residential slabs and footing construction is also required. This report forms part of the Certificate of Installation required by AS 3660.1.

NB a copy of this Report is to be attached to the Trithor Termite Damage Warranty No: 2009-01

Installation Date: 14-1-09	P	Builder: 500	THERN CRO	35
Installation Address: 6-14 MA	CPHERSON		COSTRUCTIO	ECNO
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TRITHOR

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Subject to the following tourns, that allows condition in ACM 92 (396 253) (Chevster) warrants

WARRANTY

Subterranean Termité Control

a probably installed in that, fundiminished, that was installed in the Covered Property only provides for control of Subtanance Ensystex during the Warranty Period.

Subterranean Termité Damage Repair

During the Warranty Period, Ensystex agree by Subterranean Termites that breach or out undiminished, unmodified and undamaged the Covered Property by a Trithor Authorised O. Loss to a Covered Property during the Warranty Pe \$100,000.00 (including GST). The Warranty only change discovered and notified to Ensystex during the Warranty Period, Compliant Damage. After certain elapsed periods of time during the Ensystex's responsibility for repairing, remediating or replacing Compt to only a portion of the cost of repairing, remediating or replacing sections.

WARRANTY PERIOD

The Warranty Period shall begin on the Warranty Inception Daminimum of one year. The Warranty Period shall be automated and each subsequent, consecutive anniversary of the Warranty Period shall be automated each subsequent, consecutive anniversary of the Warranty Period that a Qualified Inspection of the Subterranean Termites, performed at the Property since the last (Immediately prior) anniversary of the Warranty Inception Date in the case of the first Warranty Period will, upon the performance of the Subsequence of the

WARRANTY PERIOD EXPIRATION AND RRANTY TERMINATION

The Warranty Period will not be extended in a Warranty if all Qualified Inspections required in all Qualified Inspections required in a to the Warranty are not performed without notice to the extent required terminated automatically and without notice to the Property Ow of the Warranty Inception Date that occurs without a Qualified Property having been performed since the last Warranty Inception of the Warranty Shall be terminated in the Warranty Shall be terminated.

LIMITATION ON ENSYSTEX'S RESPONSIBILITY FOR

Beginning on the tenth anniversary of the Warranty Inception Data to the remainder of the Warranty Period, Ensystex shall be responsible for the property of any Compliant Damage and only if the amount of Loss exceed an early mount, with the amount of Loss for which Ensystex is responsible varying a characteristic parameter of years that have elapsed between the Warranty Inception Date and it find on which the Compliant Damage is notified to Ensystex, as follows:

Property Owner shall be responsible for the first \$2,500.00 of Loss between the tenth and fifteenth anniversaries of the Warranty Incests

Property Owner shall be responsible for the first \$5,000.00 of Loss to the 40 Ensystex between the fifteenth and twentieth anniversaries of the Warranty Inco. 10 Date.

Property Owner shall be responsible for the first \$10,000.00 of Loss not all to Ensystem between the twentieth and fiftieth anniversaries of the Warranty Inception Date.

Authorised Operator erform the inspections).

Alendations contained in the mendations contained in the mendations contained in the mendations or Australian Standards with respect to Timber in force on the date of the inspection(s). The results of such inspection to writing by the inspector and such report must be retained by the mendation of the thoroughness and timing of the inspection(s).

ases to trade or to

of Loss the Property Owner must, upon such request by Ensystex, the satisfactory to Ensystex that all of the Qualified Inspections of the according to the terms of this Warranty have been performed the end of the extent required. Failure of Property Owner to account to Ensystex that all required Qualified Inspections have been extent required may result in denial of the claim by Ensystex and nof this Warranty retroactively to the end of the one year extension of

eriod following the last one year extension of the Warranty Period for which ry Owner is able to provide evidence satisfactory to Ensystex that a Qualified occurred during that one year time period.

HELIANT DAMAGE

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Covered Property from Subterranean Termite attack by preventing ubterranean Termites into the Covered Property through openings, soints and other normal points of discontinuity in the foundation of the Covered Property below, above, across and along which it has been installed. Termites are deterred from entry into the Covered Property on account of the presence of a chemical termiticide within the Trithor components which deters their penetration and/or breaching of the components. Trithor components are effective at deterring Subterranean Termite attacks against the Covered Property only if they are installed properly and are intact, undisrupted, undiminished, unmodified and undamaged at any time at which they are under attack by termites attempting to penetrate or breach them. Ensystex shall not be responsible for the repair of damage to the Covered Property caused by Subterranean Termites that breach or otherwise penetrate an improperly installed, disrupted, diminished, modified and/or damaged Trithor component or a Trithor component installed by anyone other than a Trithor Authorised Operator.

Based on circumstances that may be present or events that may occur in the Covered Property during the Warranty Period that are beyond the control of Ensystex, termites may be able to bridge, circumvent or otherwise avoid a Trithor component and enter and attack the Covered Property without having to breach or penetrate a Trithor component. Such unimpeded entry can occur if termites are able to bridge across, around or over Trithor or if they are able to enter the structure at an opening in the foundation that is, for whatever reason, unprotected by Trithor. Ensystex is not responsible for the repair of Subterranean Termite damage caused by termites entering the Covered Property under such circumstances or in such a manner or caused by Subterranean Termites entering the property in any manner or by any route other than by directly penetrating or breaching a Trithor component.

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NO OTHER WARRANTIES

No other warranties, representations or other terms and conditions of any nature not expressly contained in this Warranty shall have any force unless they have been reduced to writing and signed by all parties and are expressed to be a modification of this Warranty. This clause does not exclude statutory warranties or conditions.

PROPERTY OWNER'S RESPONSIBILITIES

The Property Owner must:

- not damage, remove, modify, tamper or interfere with any Trithor component.
- act with the utmost good faith in the event of a Loss or in filing a claim for Loss. If the Property Owner lodges a fraudulent claim or provides false or misleading information, Ensystex may cancel the Warranty and/or deny responsibility for the claim.
- immediately notify Ensystex in writing if termites or termite damage are found in the Covered Property.
- have all Qualified Inspections performed, at their expense, according to the terms contained in the Required Annual Qualified Inspections Section of this Warranty.
- not allow or fail to prevent the accumulation of wood, rubbish or timber against the exterior of the Covered Property.
- not allow the Trithor barrier dividing the soil surface from the Covered Property
 to be bridged or broken by any material or matter through or over which
 termites may bypass a Trithor component and enter the Covered Property.
- not allow the finished ground level against the exterior of the Covered Property to, at any point, exceed in height the level of the lowest Trithor component in the Covered Property opposite that point.

EXCLUSIONS

No cover under this Warranty shall be provided in respect of:

- the repair of any Subterranean Termite Damage discovered or reported after the termination or expiration of the Warranty.
- consequential or indirect loss or loss of any nature except as specified herein.
 Ensystex will not pay or compensate the Property Owner and Ensystex hereby disclaims any responsibility for devaluation of the Covered Property, stress, loss of sleep, anxiety, alternative accommodation or loss of income.
- 3. any Loss associated with Betterment.
- any Loss on account of alterations, additions or modifications to the Covered Property that disrupt, diminish, modify or damage a Trithor component.
- damage occurring to chattels of any nature including, but not limited to, antiques, artwork, heirlooms, paintings, carpets, floor coverings, fittings, furniture, personal property or stored materials.
- damage to fences, gates, poles, bridges, wharves, jettles, landscaping timbers, garden structures or pergolas.
- damage to buildings connected to or additions to the Covered Property that are not protected by Trithor.
- damage to the Covered Property that occurs other than as a result of a performance failure of a Trithor component.
- damage to the Covered Property if any Trithor component protecting the Covered Property was installed by any person or entity other than a Trithor Authorised Operator.

OTHER CONDITIONS

Control of termites that penetrate or breach a Trithor component and that are the responsibility of Ensystex to control shall be controlled according to the method of control chosen by Ensystex.

All repair, remediation and replacement of Compliant Damage performed according to and/or on account of this Warranty shall be performed at the direction and expense of Ensystex. Ensystex shall not be responsible for reimbursement or other compensation for the repair, remediation or replacement of Compliant Damage when the repair, remediation or replacement is performed or otherwise arranged for by the Property Owner or some other third party (including a Trithor Authorised Operator) not working under the authority and direction of Ensystex, unless prior to performance of such repair, remediation or replacement, written authorisation for such repair, remediation or replacement was received from Ensystex.

The responsibility of Ensystex to perform repairs to the Covered Property shall be limited in scope to the repair, remediation or replacement of components of the Covered Property that Ensystex deems necessary to correct or remedy the effects on the Covered Property of any Compliant Damage.

The valuation of Loss shall be computed from the following formula. Loss = cost of the materials and labour (at prevailing local per hour wage rates) deemed necessary by Ensystex to correct or remedy the effects of the Compliant Damage plus applicable taxes, permits and insurance plus twenty five percent for overhead.

During the inspection and authentication of any Compliant Damage to the Covered Property, Ensystex will not be responsible for creating openings to and/or dismantling any part of the Covered Property directly upon which no visible evidence of Compliant Damage is found by Ensystex.

Any repairs by Ensystex to the Covered Property will be performed to match, as close as reasonably possible, the existing fit, finish and appearance of the damaged area of the Covered Property. If any part or component of an item of decor (e.g. paint, tile, flooring, wallpaper, panelling, moulding, trim, siding, roofing, brick, finishes, etc.) of the Covered Property sustains Compliant Damage or is damaged during the repair of Compliant Damage, Ensystex will make a reasonable effort during repair or replacement of this part or component of this item of decor to match it to existing, similar, undamaged parts or components of this item of decor. However, Ensystex will not be responsible for repairing and/or replacing undamaged parts or components of the item of decor in order that they exactly and indistinguishably match parts or components of the item that were repaired or replaced.

During the performance of repairs, Ensystex, in lieu of removing and replacing any damaged component of the Covered Property, can instead, at its option, reinforce and/or reconstruct the component or part of the Covered Property containing the component in such a way that the structural purpose of the component is preserved, supplemented or transferred to another component, existing or installed by Ensystex, provided that the area of the Covered Property that contains such component shall have an appearance after repair, when viewed from the exterior or interior living spaces of the Covered Property, similar to its appearance before it was damaged.

DISPUTE RESOLUTION

Any dispute under, or arising out of, this Warranty shall be referred to the Institute of Arbitrators & Mediators Australia, for resolution. Each case will first be referred to a Conciliator appointed by the Institute unless either party wishes to proceed directly to arbitration. If the conciliation is not satisfactorily concluded within six weeks or if the parties want to proceed directly to arbitration, the Institute will appoint an Arbitrator who will make a final and binding award.

DEFINITIONS

Betterment means that part of any Loss associated with the use of materials of superior quality to those used in the construction of the Covered Property.

Compliant Damage means Subterranean Termite Damage to the Covered Property caused by Subterranean Termites that, according to the terms of this Warranty, is the responsibility of Ensystex to repair, remediate or replace. Compliant Damage is damage caused or created by Subterranean Termites that breach or otherwise penetrate a properly installed, intact, undiminished, unmodified and undamaged Trithor component. Any other damage is Non-Compliant Damage and is not the responsibility of Ensystex to repair, remediate or replace.

Covered Property means the residential or commercial building(s) specifically identified in this Warranty as being protected by Trithor. Additions made to the Covered Property within which Trithor is not installed by a Trithor Authorised Operator are not covered by this Warranty.

Trithor Authorised Operator means a person or entity who has within the last year been accredited or reaccredited by Ensystex to install Trithor and to offer this Warranty.

Loss means all costs and expense incurred to repair, remediate or replace Compliant Damage. According to this Warranty, Ensystex may not be responsible for paying to repair, remediate or replace all Loss that occurs to the Covered Property.

Non-Compliant Damage means Subterranean Termite Damage to the Cover Property that, according to the terms of this Warranty, is not the responsibility of Ensystex to repair, remediate or replace. Non-Compliant Damage includes any damage not classified as Compliant Damage.

Property Owner means the holder of the Warranty including successors in title.

Subterranean Termites means termites of the families Rhinotermitidae and Termitidae, which require soil contact or a continuous supply of moisture and are regarded as the group of termites most damaging to buildings.

Subterranean Termite Damage means Subterranean Termite consumption of Timber that impairs the integrity of structural and/or internal Timber(s).

Timber means the wood or wood derived products used in the structural framing and finishes of the Covered Property.

Trithor Termite Protection System or Trithor means the Trithor components installed in the Covered Property by a Trithor Authorised Operator.

Warranty Inception Date means the date on which the Warranty took effect on the Covered Property. The Trithor Warranty Activation Form supplied as part of the 'Trithor handover kit' for the Covered Property must first be completed and forwarded to the Trithor Authorised Operator who installed the Trithor System in the Covered Property.

Warranty Period means the period beginning on the Warranty Inception Date and ending on the date of the termination of this Warranty.

TRITHOR

MERIMINE MANAGEMIENT

Inthor Papelle Protection has been installed in your outgoing the accordance with Australian, standard AS 35500 termine management Pain 45 New building work and the 48 whiting Cook of Australia. This is an untegrated system that requires ongoing maintenance by you.

VERY IMPORTANT INFORMATION

Standard AS 3660 and the Building to be protected against concealed from the soil into the building creating a barrier to termite entithat even "a complete termite accordance with this Standard of since the barriers can be bridged bridge barriers, the evidence can inspections."

Regular Inspections Required

It is therefore imperative that you have your hor a regular basis. The Australian Standard advission competent inspections should be carried out all basis, but more frequent inspections are strought is a condition of your Trithor Warranty the Trithor Authorised Installer to perform a figure of your property at least once every years.

Looking after your Trithor To the Brotection

If the Trithor Termite Protection is in any urbed or damaged, then concealed subterrane possible. Trithor Termite Program rform he dan building alterations, repaid additions it of pergolas, awnings, versions, etc. It may als ection ed if you perform any landscaping work or gardening V involves raising the level of the soil or paths adjacen rotected structure. Such work may bridge (cover over arrier. If you intend performing such work you should Trithor Authorised Installer.

Important Care of Your Property to Milymose Termite Infestation

Air vents or weep holes around your propert the blocked.

Drainage You should ensure that the ground level property are maintained to minimise water entering of the building. Where necessary sub-surface drains should not assist with the drainage. On a sliving site you may need to install surface or agriculture drains on the uphill side of your property to divert groundwater away.

the entry. Period of the entry of the entry

and attachments

das, steps, pergolas, provide access an termites can enter your attachments to buildings are not provided with termite annot be easily inspected, they should be separated one by a clear gap of at least 25mm.

concest and landscape timbers. Any part of a timber fence timber which comes in contact with the ground landscape timber infestation. All timber in ground to the contact with the ground timber and decay resistant.

make Minimise the presence of loose timber, and areas of direct wood to soil contact property. Fix faulty plumbing, leaks, dampness caused drainage, condensation or leaks from the roof or other oto, onto, or around the structure(s). Remove water pools to your property. Remove any dead trees and stumps are nesting sites for subterranean termites. Rake way from the structure to expose weep holes and oncrete slab.

If you become aware of any breaches to your Trithor System; or changes to the building structure such as those detailed above, you should immediately contact your Trithor Authorised Installer.

What if you find live termites?

If you find live termites you should immediately contact your Trithor Authorised Installer. It is very important that the termite workings remain undisturbed until a method of management has been determined.

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ABOUT TERMITES

No property in mainland Australia is safe from termites. Termites are the cause of the greatest economic losses of timber in service. Australia's subterranean termite species (white ants) are the most destructive timber pests in the world. In fact it can take "as little as three months for a termite colony to severely damage almost all the timber in a home".

How Termites Attack Homes The most destructive species live in large underground nests containing more than a million timber destroying insects. The problem arises when a nest matures near your property. Buildings tend to provide natural shelter and a food source for the termites. The gallery system of a single colony may exploit food sources over as much as one hectare, with individual galleries extending up to 50 metres or more to enter buildings, where there is a smorgasbord of timber to feast upon.

Even concrete slabs do not act as a barrier; termites can penetrate through cracks in the slab to gain access. They also build mud tubes around the slab to gain access to above ground timbers.

Termite Damage Once in contact with timber, termites excavate it, often leaving only a thin veneer on the outside. If left undiscovered, the economically important species can cause many thousands of dollars damage and cost two to five thousand dollars (or more) to treat.

Subterranean Termite Ecology Termites are social insects usually living in large underground nests. They tunnel underground to enter the building and then remain hidden within the timber making it difficult to locate their presence. Where timbers are concealed, as in most modern properties, it makes it more difficult to locate their presence. Especially if gardens have been built up and termite barriers are either not in place or poorly maintained.

There are about 3,000 species of termites found in the world with about 300 species in Australia. All termites eat some form of plant cellulose. Most termites simply eat humus in the soil, or grass and leaves. Very few species eat wood, and only a small number of these eat sound wood (i.e. wood that has not been decayed by fungus). Some 20 or more species cause serious economic loss to Australian buildings.

Termite Biology. Termites or "white ants" are social insects that work and live together in groups called colonies. Each colony contains several 'castes' which differ in body shape, behaviour and tasks performed.





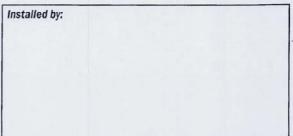
The reproductive pair (king and queen termite) mate and control the entire colony. In most species that cause economic loss in Australia the queen becomes 'physogastric'. This means she has a grossly enlarged abdomen to enable her to lay millions of eggs. She essentially becomes an egg laying machine.

The eggs hatch into the nymphal stage and through a series of moults develop into one of the adult castes described below. The worker caste has the largest number of individuals within the colony and is responsible for building the nest, tending eggs and young termites, gathering food and feeding those castes that are unable to feed themselves. Worker termites are wingless, blind and do not reproduce. Workers perform almost all the tasks in the colony except for defence and reproduction.

The soldier caste can be distinguished from the other castes by their head. The head of the soldier caste is large, dark and may have large mandibles or a 'nasute' (pointed) protuberance. Soldier termites defend the colony against predators such as ants and are also unable to reproduce.

The winged reproductive caste are the potential kings and queens of new colonies. This caste has eyes and wings and usually leaves the parent colony in large swarms. They do not fly far before shedding their wings.







4th June, 2009

Terry Edwards Sothern Cross Constructions Address Address

Dear Sir,

STRUCTURAL DESIGN AND INSPECTION CERTIFICATE
WARRIEWOOD BROOK RETIREMENT VILLAGE STAGE 1 (BUILDINGS A B + C)

This is to certify that:

The structural engineering components of this project as shown on our drawings numbers TFS01, TFS02, TFS03, TFS05, TFS06, TFS07, TFS08, TFS09, TFS10, TFS11, TFS12, TFS13, TFS14, TFS20, TFS21, TFS22, TFS23, TFS30, TFS31, LLS05, LLS06, LLS10, LLS11, LLS12, LLS20, LLS30 & LLS31 were designed by a practising structural engineer in accordance with the relevant Australian Standards, Building Code of Australia and accepted engineering practice and principles.

HUGHES TRUEMAN PTY LTD

ABN 53 831 529 091

QUALITY CERTIFIED AS 9001

www.hughestrueman.com.au

AS TRUSTEE FOR HTL REINHOLD TRUST

Level 2, 60 Pacific Highway

stleonards@hughestrueman.com.au

PO Box 151 St Leonards NSW 1590

Australia T 02 9439 2633

F 02 9438 4505

A practising structural engineer from this office carried out inspections during construction of the works. At the time of the inspections the works inspected were considered to be in accordance with the structural drawings, or when minor corrections were required the engineer left written instructions for rectification with the builder.

In carrying out the design and inspections we exercised the degree of skill, care and diligence normally exercised by Consulting Engineers in similar circumstances.

This certificate does not relieve other parties of their responsibilities for the works.

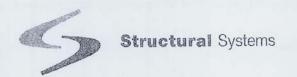
Yours sincerely

HUGHES TRUEMAN JOHN WILLIAMS

Director

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Structural Systems (Northern) Pty Ltd ABN: 87 076 604 281 20 Hilly Street Mortlake NSW 2137 Australia

+61 2 8767 6200 +61 2 8767 6299 (**)

www.structuralsystems.com.au

STRUCTURAL ADEQUACY - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	Post-Tensioning to New Buildings

Measure and/or system	Standards of Performance
Structure general .	BCA2008 Part B1 including: Imposed Actions/Loads: AS/NZS 1170.0 (general principles) AS/NZS 1170.1 (permanent & other actions) Structural Resistance of Materials & Forms of Construction: AS3600 (concrete construction)
) I am a properly qualified	person and have a good working knowledge of the relevant codes and standards
referenced above. (My o	ualifications and accreditations are listed below)
Relevant qualifications and a	ccreditations:
MIPA	Civil)-(ATS
	the transfer of the transfer o
c) The information contained	ed in this statement is true and accurate to the best of my knowledge.
Name: Show	n Sullian
Company: Stru	items Systems
	tilly st Mortloke
Phone No. 9767	7 6200 Fax No. 8767 6299
0,107	
	2/6/09
Ch al	
Signature Signature	Date



Structural Systems

Structural Systems (Northern) Pty Ltd ABN: 87 076 604 281 20 Hilly Street Mortlake NSW 2137 Australia

+61 2 8767 6200 @ +61 2 8767 6299 ()

www.structuralsystems.com.au

STRUCTURAL ADEQUACY - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	Post-Tensioning to New Buildings

Measure and/or system	Standards of Performance
Structure general	BCA2008 Part B1 including: Imposed Actions/Loads: • AS/NZS 1170.0 (general principles) • AS/NZS 1170.1 (permanent & other actions) Structural Resistance of Materials & Forms of Construction: • AS3600 (concrete construction)
a) I am a properly qualified	person and have a good working knowledge of the relevant codes and standards ualifications and accreditations are listed below)
referenced above. (My q	delinearies and accommendation
Relevant qualifications and a	ccreditations:
Relevant qualifications and a	
Relevant qualifications and a 8 Eng (civil) MIEAst.	ccreditations:
b) The information containe Name: Shows:	ed in this statement is true and accurate to the best of my knowledge.
b) The information containe Name: Shows:	ed in this statement is true and accurate to the best of my knowledge.
b) The information containe Name: Shows:	ed in this statement is true and accurate to the best of my knowledge.

FIRE RESISTING CONSTRUCTION - REINFORCED CONCRETE - INSTALLATION CERTIFICATE

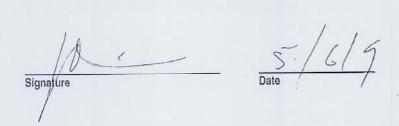
Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	The structural engineering components of this project as shown on our drawings numbers TFS01, TFS02, TFS03, TFS05, TFS06, TFS07, TFS08, TFS09, TFS10, TFS11, TFS12, TFS13, TFS14, TFS20, TFS21, TFS22, TFS23, TFS30, TFS31, LLS05, LLS06, LLS10, LLS11, LLS12, LLS20, LLS30 & LLS31

I hereby certify that:

The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire resisting construction (Reinforced Concrete)	BCA2008 Part C2, AS 1170.1 - 1989, AS 1170.2 - 1989, AS 1170.4 - 1993, AS 3600 - 2001, AS 3700 - 2001, AS 4100 - 1998 and in accordance with a tested prototype to the scheduled Architects drawings.

	I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)
Rei	evant qualifications and accreditations: BE ALST
c)	The information contained in this statement is true and accurate to the best of my knowledge.
Na	me: JOHN RULLIAMS
Co	mpany. 1-1-4 HES TINVENAN
A -1	to the they they there
Dh	2018 St. 243 9 743 8 745 8 4505



STRUCTURAL ADEQUACY - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpheison Street Warriewood NSW 2101
Part of Building to be certified	The structural engineering components of this project as shown on our drawings numbers TFS01, TFS02, TFS03, TFS05, TFS06, TFS07, TFS08, TFS09, TFS10, TFS11, TFS12, TFS13, TFS14, TFS20, TFS21, TFS22, TFS23, TFS30, TFS31, LLS05, LLS06, LLS10, LLS11, LLS12, LLS20, LLS30 & LLS31

I hereby certify that:
a) The drawings and specifications listed above have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Structure general	BCA2008 Part B1 including: Imposed Actions/Loads: • AS/NZS 1170.0 (general principles) • AS/NZS 1170.1 (permanent & other actions) • AS/NZS 1170.2 (wind actions) • AS 1170.2 (wind loads) • AS 1170.4 (earthquake loads) • AS1170.4 (earthquake loads) Structural Resistance of Materials & Forms of Construction: • AS3700 (masonry) • ASAS4100 (steel structures) • AS/NZS 4600 (cold form steel structures) • Residential & low rise steel framing NASH standard • AS3600 (concrete construction) • AS2327.1 (composite steel & concrete) • AS/NZS 1664.1 or 2 (aluminium construction) • AS1720.1 (design of timber structures) • AS1684.2 or .3 or .4 (timber structures) • AS169 (Piling) • AS1860 (particleboard structural flooring) • AS1735.2 (lift shafts without an FRL) Concrete External Walls • BCA2007 Specification C1.11 Balustrades • AS1170.1 Clause 4.7.1

a)	I am a properly qualified person and ha referenced above. (My qualifications an	ve a good id accredi	I working knowledge of the relevant codes and standards tations are listed below)
Re	levant qualifications and accreditations:_	DE	MIEAust
_			

ompany. 1-1	USIFES	TRUE	MAN		MINISTER STATE		
ddress: LZ	60 6	PACIFIC 1	11-7	STLEUN	Ann S		
hone No. 9	439 2	TRUE PACIFIC H	Fax No	94384	4505	-	
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			5/	6/9			
gnature			Date /	(/			



25/378 Parramatta Road, Homebush NSW 2140

Postal Address: PO Box 114 Sydney Markets NSW 2129 Phone: (02) 9764 5555
Fax: (02) 9764 5559
Email: enquiries@basefire.com.au Web: www.basefire.com.au ABN: 61 109 092 891

PORTABLE FIRE EXTINGUISHERS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

Standards of Performance

Signature

Measure and/or system

I hereby certify that:
a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Portable fire	extinguishers	BCA2008 Clause E1.6 and AS 2444 - 2001	
STATE OF THE PARTY		person and have a good working knowledge of and accreditations are listed below)	the relevant codes and standards referenced
Relevant qual	ifications and a	creditations: Senior Design Engineer	
c) The infor	mation contain	I in this statement is true and accurate to the be	est of my knowledge.
Name:	Daniel Leh		
Company:	Base Fire F	otection Pty Ltd	
Address:	Unit 25/37	Parramatta Road, Homebush 2140	
Phone No	02 9864 55	5 Fax No. <u>02 9</u>	764 5559
		1/	

Date 4/6/09.



25/378 Parramatta Road, Homebush NSW 2140

Postal Address: PO Box 114 Sydney Markets NSW 2129 Phone: (02) 9764 5555 Fax: (02) 9764 5559 Email: enquiries@basefire.com.au Web: www.basefire.com.au ABN: 61 109 092 891

AUTOMATIC FIRE SUPPRESSION SYSTEMS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Automatic fire suppression systems (Sprinklers in carpark only)	BCA2008 Specification E1.5 and AS 2118.1 – 1999

above. (N	Ty qualifications and accreditation	
Kelevant qual	ifications and accreditations:	Sentor Design Engineer
c) The infor	mation contained in this stateme	ent is true and accurate to the best of my knowledge.
Name:	Daniel Lehn	
Company:	Base Fire Protection Pty Ltd	
Address:	Unit 25 / 378 Parramatta Ro	ad , Homebush, NSW 2140
Phone No	02 9764 5555	Fax No. 02 9764 5559
	A //	

Signature

Date





25/378 Parramatta Road, Homebush NSW 2140

Postal Address: PO Box 114 Sydney Markets NSW 2129 Phone: (02) 9764 5555 Fax: (02) 9764 5559 Email: enquiries@basefire.com.au Web: www.basefire.com.au ABN: 61 109 092 891

AUTOMATIC FIRE SUPPRESSION SYSTEMS - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

1 ne	reby certify that:
a)	The drawings and specifications have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Automatic fire suppression systems (Sprinklers in carpark only)	BCA2008 Specification E1.5 and AS 2118.1 – 1999

a) I am a proabove. (N	operly qualified person and h My qualifications and accredit	ave a good working knowledge of the relevant codes and standards referenced tations are listed below)
Relevant qual	ifications and accreditations:	Senior Design Engineer
b) The infor	mation contained in this state	ement is true and accurate to the best of my knowledge.
Name: Danie	l Lehn for Bill O,Shea	
Company:	Base Fire Protection Pty	Ltd
Address:	Unit 25/378 Parramatta F	Road, Homebush, NSW 2140
Phone No	02 9764 5555	Fax No. 02 9764 5559
4-6-09		Signature
	Date	



SOUND INSULATION - DESIGN CERTIFICATE

Project Name	Warriewood - Stage 1		
Address	6-14 Macpherson Street Warriewood NSW 2101		
Part of Building to be certified	All new work (entire building)		

I hereby certify that:
a) The drawings and specifications have been designed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Sound insulation	BCA2008 Part F5, Specification F5.2 and Specification F5.5, AS/NZS 1276.1 - 1999 or ISO 717.1 - 1996 and AS/ISO 717.2 - 2004	

a)	I am a properly qualified person and have a good working knowledge of the relevant codes and standards
	referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations: 1. Master Degree of Mechanical Engineering 2. Bachelor Degree of Mechanical Engineer

> 3. Diploma of HVAC and Refrigeration

b) The information contained in this statement is true and accurate to the best of my knowledge.

Name:	George Wei			
Company:	Acoustic Logic Consultancy			
Address: 9 Sarah St, Mascot				
Phone No.	8338 9888	Fax No	8338 8399	

FINAL/INTERIM FIRE SAFETY CERTIFICATE

Environmental Planning and Assessment Regulation 2000

Amendments

Schedule 1

(Form 15) Final/Interim Fire Safety Certificate

Issued under the Environmental Planning and Assessments Regulation 2000

Type of Certificate (see note 1)	Interim			
Certification	I, J	onathan	Ryan	
Name owner/agent Address	of, Banabelle Electrical Pty Limited Unit 6, 11 Ponderosa Parade WARRIEWOOD NSW 2102			
See Note 2 (over leaf) assessment requirements	Certify that: a) Each of the essential fire measures listed below: • Has been assessed by a person (chosen by me) who was properly, qualified to do so, and			
See Note 3 (over leaf) relevant fire safety schedule	Was found, when it was assessed, to have been properly implemented and to be capable of performing to a standard not less than that required by the most recent fire safety schedule (refer below) for the building for which the certificate is issued. b) The information contained in this certificate is, to the best of my knowledge and belief, true and accurate.			
Identification of building (location)	Side of street: North nearest cross street: Boondah St house/unit no or name:			
Particulars of building	Whole / Part Description of part (where applical		applicable)	Internal Units 1 to 64 inclusive
Date of assessment	11 th July 2009			
Owner's details	Name: Anglican Retirement Village, Diocese of Sydney PO Box 284, Castle Hill NSW 1765 Address:			
		PO Box	414 Camme	ray NSW 2062
Essential Fire Safety Measures (see note 3)	Measure: Apartment Smoké Defectors		rs	Standard of Performance AS/ 3786-1993
Date of certificate	Date this eleventh gay of July 2009			
Signature	1111	1	Owner/	Agent

FINAL/INTERIM FIRE SAFETY CERTIFICATE

Environmental Planning and Assessment Regulation 2000

Amendments Schedule 1

(Form 15) Final/Interim Fire Safety Certificate

Issued under the Environmental Planning and Assessments Regulation 2000

- A copy of this certificate together with the relevant fire safety schedule must be forwarded to the council
 and the Commissioner of the New South Wale Fire Brigades.
- A copy of this certificate together with the relevant fire safety schedule must be prominently displayed in the building.

Notes for completing Final/Interim Fire Safety Certificate

Note 1 An interim fire safety certificate or a final fire safety certificate is required before:

- An interim occupation certificate can be issued to allow a partially completed new building (including an altered portion of, or an extension to, a new building) to be occupied or used, or
- An interim occupation certificate can be issued to allow a change of building use for part of an
 existing building.

A final fire safety certificate is required:

- Before a final occupation certificate can be issued to allow a new building (including an altered
 portion of, or extension to, a new building) to be occupied or used, or
- Before a final occupation certificate can be issued to allow a change of building use for an existing building, or
- · In accordance with a fire safety order given by a council.

An interim fire safety certificate is issued for part of the building and may deal only with those essential fire safety measures appearing on the most recent fire safety schedule (see note 3) relevant to the part of the building for which an interim occupation certificate will be sought.

A final fire safety certificate must deal with all essential fire safety measures appearing on the most recent fire safety schedule (see note 3), subject to the following:

An interim fire safety certificate or a final fire safety certificate need not deal with those essential fire safety measures which have been the subject of some other final safety certificate or annual fire safety statement within the previous 6 months, unless the person or authority responsible for determining the relevant development consent, complying development certificate, construction certificate or fire safety order, has specified otherwise in the schedule.

See also note 3.

Note 2 The person who carried out the assessment:

- · Must inspect and verify the performance of each fire safety measure being assessed, and
- In the case of a (interim or final) fire safety certificate for a new building (not an alteration to, or
 enlargement or extension of an existing building) must test the operation of each item of fire safety
 equipment in the building.

Note 3 The relevant essential fire safety measures are those specified in the most recent fire safety schedule, attached to one of the following:

- Development consent fore a change of building use,
- Complying development certificate for the erection of a building or a change of building use.
- Construction certificate for proposed building work, including building work associated with a change of building use.
- · A fire safety order.

The fire safety schedule will also identify the required standard of performance for each essential fire safety measure.

ROOF CONSTRUCTION AND COVERING - INSTALLATION CERTIFICATE

Project Name	Warriewood Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:
a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Roof construction and covering	BCA2008 Clauses B1.4 and F1.5 - AS/INZS 1562-3 & AS4256.1; 2.3 & 6 (plastic roofing) - AS2049 & AS2050 (roof tilling) - AS/INZS 2908.1 with safety mesh installed in accordance with AS/INZS 1562.3 (Corrugated cement sheets) - AS1562.1 (Metal roofing)

Relevant qualifications and accreditations	ions: Diector,	PROJECT	MANAGER
c) The information contained in this s	statement is true and accura	te to the best of my	knowledge.
Name: SIMON CAR			
Name: SIMON CAR Company: AGF Melel Address: 3 Warraba	Roofing PL.	rabeen	

FIXED PLATFORMS, WALKWAYS, STAIRWAYS & LADDERS - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

į	herehy	certify	that
1	HELEDA	COLUIT	ulat.

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
ROCF STETY SYSTEM . Fixed platforms, walkways, stairways, and ladders	BCA2008 Clauses D1.16, D2.18 and H1.6, AS1657-1992 and Work Cover Authority requirements

Relevant qu	valifications and accreditations: PRECTOR ; PROJECT MANAGER
c) The inf	ormation contained in this statement is true and accurate to the best of my knowledge.
Name:	SIMON CARNOALE
Name:	SIMEN CARNWALE RIF METAL ROOFING PTY LTD
Name: Company:_	

Signature

Date



40 Saggart Field Road, Minto NSW 2566 PO Box 312, Campbelltown NSW 2560 Phone: (02) 8796 9000 Fax: (02) 8796 9090

Interim Compliance Certificate

WORKS HAVE NOW BEEN COMPLETED AT:

Warriewood Brook RACF - Stage

6-14 Macpherson Street, Warriewood NSW Buildings A, B & C

Safemaster Height Safety Solutions certifies that the *ROOF SAFETY SYSTEM* has been fitted in accordance with Australian Standards 1891, 1657 and the WorkCover Handbooks Parts 1 and 2 – 'Safe Work on Roofs'.

This is an Interim Certificate only and is valid until: 03/08/2009

In compliance with the above regulations and standards, full 12 month Certification will be provided upon receipt of all outstanding monies.

Issued on behalf of Safemaster Height Safety Solutions Pty. Ltd.

ABN 39 104 705 320

Andrew Pridham

Director

Project Manager

Height Safety Technical Consultant

Safemaster takes NO responsibility for the misuse of, or tampering of this Height Safety System.

Safemaster takes NO responsibility for ANY damage occurring to this Height Safety System by other contractors during the construction period.

This system MUST only be used by personnel who are trained in the use of this system

SARKING - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby	certity	that:

 a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Sarking for roof and walls	BCA2008 F1.6 and AS/NZS4200.1 and .2

Relevant qua	lifications and accreditations:	PIRECTOR,	PROJECT	junn nowe
) The infor	mation contained in this stateme	ent is true and accurate to	the best of my kr	nowledge.
lame:	Simon Coren	DONES (PTV 1TT	
		ROOFING NA	PM LTT	<u> </u>

Signature

30/6/59 Date



FIRE HYDRANT SYSTEM - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Fire hydrant system	BCA2008 Clause E1.3 and AS 2419.1 - 2005	

Relevant qual	ifications and accreditations:	Plumber drainer and Gasfitter Licence number – 27727C
c) The inform	mation contained in this statement in	is true and accurate to the best of my knowledge.
0) 1110 1111011	nation contained in this statement	s true and accurate to the best of my knowledge.
1.00	Greg Lord	s true and securate to the best of my knowledge.
Name:		s true and accurate to the best of my knowledge.
Name: Company:	Greg Lord	

Signature 5th June 2009

Date



FIRE SEALS PROTECTING OPENINGS IN FIRE RESISTING COMPONENTS OF THE BUILDING - PLUMBING PENETRATIONS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire seals protecting openings in fire resisting components of the building- Plumbing and penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.

	operly qualified person and have d above. (My qualifications and a			the relevant codes and standards)
Relevant qual	ifications and accreditations:F	Plumber drainer and	Gasfitter	Licence number – 27727C
c) The inform	nation contained in this statemen	nt is true and accura	te to the b	pest of my knowledge.
Name:	Greg Lord			
Company:	McPherson Plumbing			
Address:	PO Box 3019. Erina. NSW 2	251		
Phone No:	0243653940	Fa.	No	0243653928
	7 1 0			
6.	So de	-	June 2009	9
Signature	-/	Date		



Part of Building to be certified

Project Name

Address

HOSE REEL SYSTEMS - INSTALLATION CERTIFICATE

Warriewood - Stage 1

All new work (entire building)

6-14 Macpherson Street Warriewood NSW 2101

Measure and	l/or system	Standards of Per	formance	
Hose reel syste	ms	BCA2008 Clause E1.4	4 and AS 2441 - 2005	
			od working knowledge o ditations are listed below	f the relevant codes and standards
Relevant quali	fications and ac	creditations: Plumb	per drainer and Gasfitter	Licence number – 27727C
	Market and the same	California Caracia de Caracia		
c) The inforr	nation contained	d in this statement is t	rue and accurate to the i	pest of my knowledge.
MAN TO STATE OF THE STATE OF TH	nation contained Greg Lord	d in this statement is t	true and accurate to the i	pest of my knowledge.
Name:			true and accurate to the i	pest of my knowledge.
Name: Company:	Greg Lord McPherson		irue and accurate to the i	pest of my knowledge.
Name: Company: Address:	Greg Lord McPherson	Plumbing 9. Erina. NSW 2251		pest of my knowledge.
Name: Company: Address:	Greg Lord McPherson PO Box 301	Plumbing 9. Erina. NSW 2251		
Name: Company: Address:	Greg Lord McPherson PO Box 301	Plumbing 9. Erina. NSW 2251		
Name: Company: Address:	Greg Lord McPherson PO Box 301	Plumbing 9. Erina. NSW 2251		
Name: Company: Address:	Greg Lord McPherson PO Box 301	Plumbing 9. Erina. NSW 2251		0243653928



STORMWATER DRAINAGE - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Stormwater drainage	BCA2008 Clause F1.1 and AS/NZS 3500.3.2	

Pelevant qual	fications and accreditations: Plumbe	drainer and Gasfitter	_icence number – 27727C
) The inform	nation contained in this statement is tru	e and accurate to the l	pest of my knowledge.
	0 1 1		
lame:	Greg Lord		
	McPherson Plumbing		

Signature 5th June 2009
Date



noiseshield

custom made acoustic timber windows and doors

NOISESHIELD WINDOWS PTY LTD ACN 009 904 161 ABN 34 009 904 161 P.O. Box 899, St Marys, NSW, 1790 P:. 02 9833 0855 F:. 02 9833 0856

GLAZING - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Glazing	Glazing in external walls • BCA2008 Clause F1.13 • AS2047 Other Glazing • AS1288 (including bi-fold doors, revolving doors, skylights, shopfront doors & one off doors)
	All external glazing had a maximum reflectivity index of 25% to comply with DA condition B33

 I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

Industry Experience

Carpenter / Joiner Trade Certificate

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: Michael Brookes

Company: Noiseshield Windows Pty Ltd

Address: 14 Harris Street, St Marys NSW 2760

Phone No. 02 9833 0855

Fax No. 02 9833 0856

Signature

Date: 29 June 2009





I hereby certify that:

Standards of Performance.

REMAILI BROS. PTY. LIMITED UNIT 12, 65 ELIZABETH STREET, PO Box 5043 WETHERILL PARK N.S.W. 2164

FIXED PLATFORMS, WALKWAYS, STAIRWAYS & LADDERS - INSTALLATION CERTIFICATE

a) The works have been inspected during construction and have been completed in accordance with the nominated

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

Measure and/or system	Standards of Performance		
Fixed platforms, walkways, stairways, and ladders	BCA2008 Clauses D1.18, D2.18 and H1.8, AS1657-1992 and Work Cover Authority requirements		
referenced above. (My qu	person and have a good working knowledge of the relevant codes and standards ualifications and accreditations are listed below)		
Relevant qualifications and ad	coreditations: License NO. 204 314 C		
:) The information contains	d in this statement is true and accurate to the best of my knowledge.		
Name: <u>£liE</u>	Comail. Seas Al. AbN 89 003 509420		
101.0	email. Beas Al. HOW 89 003 509420		
Address: 12/6	S Elizabeth STI WETHOULDER 2164		
Phone No. <u>02 975 0</u>	82544 Fax No. 029756 1858		

23/06/09 Date

MEMAILI BACS. IN LIMITED UNIT 12, 55 ELIZABETH STARET, PO Rox 3048 WETHERULL PARK N.S.W. 2184

Signature

F.B. BUILDING PTY LTD BRICK AND BLOCKLAYING CONTRACTORS

ABN: 50 106 485 009

P.O. Box 231, SEAFORTH NSW 2092

PHONE: 9949 8607 FAX: 9949 8708

EMAIL: fbbuild@bigpond.net.au

FIRE SEALS PROTECTING MISCELLANEOUS GAPS JOINTS AND PENETRATIONS IN FIRE RESISTING COMPONENTS OF THE BUILDING - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 McPherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system Standards of Performance	
Fire seals protecting openings in fire resisting components of the building- Joints, gaps and miscellaneous penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.

 b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

35 year experience in the construction industry, Contractor Licence #179937C and Supervisor Licence #30403S

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: FRANK BARBALACE
Company: F.B. BUILDING PTY LTD

Address: UNIT C/4, 1 CAMPBELL PARADE, MANLY VALE NSW 2093

Phone No. (02) 9949 8607 Fax No. (02) 9949 8708

allalace

Signature

Wednesday, 17 June 2009

Date

C4/1 CAMPBELL PARADE, MANLY VALE NSW 2093 CONTRACTOR LIC, NO. 179937C

F.B. BUILDING PTY LTD BRICK AND BLOCKLAYING CONTRACTORS

ABN: 50 106 485 009

P.O. Box 231, Seaforth NSW 2092

Phone: 9949 8607 Fax: 9949 8708

EMAIL: fbbuild@bigpond.net.au

FIRE RESISTING CONSTRUCTION - MASONRY CONSTRUCTION - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 McPherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire resisting construction (Masonry)	BCA2008 Part C2, AS 1170.1 - 1989, AS 1170.2 - 1989, AS 1170.4 - 1993, AS 3600 - 2001, AS 3700 - 2001, AS 4100 - 1998 and in accordance with a tested prototype to the Architects drawings.

 I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

35 year experience in the construction industry, Contractor Licence #179937C and Supervisor Licence #30403S

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: FRANK BARBALACE

Company: F.B. BUILDING PTY LTD

Address: UNIT C/4, 1 CAMPBELL PARADE, MANLY VALE NSW 2093

Phone No. (02) 9949 8607

Fax No. (02) 9949 8708

Signature

Wednesday, 17 June 2009

Date

C4/1 CAMPBELL PARADE, MANLY VALE NSW 2093 CONTRACTOR LIC. NO. 1.79937C



GDK Hydraulics Consulting Pty Ltd
ABN 64 114 102 279
Suite 6, 17 Burwood Road
Burwood NSW 2134 Australia
Phone: (02) 9745 0700

Fax: (02) 9745 0722 Email: office@gdk.net.au

DESIGN CERTIFICATION

ADDRESS

6-14 McPherson Street, Warriewood

PROJECT

Stage 1 - Building A, 'The Ferneries' and Buildings B & C, 'Lakelands'

Pursuant to the provision of Clause A2.2(a)(iii) of the Buildirg Code of Australia 2008, Vol 1.

I George Koutoulas

of

GDK Hydraulics Consulting Pty Ltd 6/17 Burwood Road, Burwood, NSW, 2134

Qualifications and experience: Full Member of AHSCA

Hereby certify:

That the Fire Services Design Drawings have been designed to comply with:

a) the relevant clauses of the Building Code of Australia, as follows:

Clause E1.3 – Fire Hydrants Clause E1.4 – Fire Hose Reels

b) the relevant Australian Standards listed in the Building Code of Australia as follows:

AS 2419.1 - 2005 AS 2441 - 2005

c) The drawings relevant to this Certification are numbered:-

Hydraulics - H-01B, H-02B, H-03B, H-04B, H-05B, H-06B, H-08B, H-09B, H-10B & H-17B

Signature: G. Locatocales Date: 6 July, 2009

IKON DOORSPTYLTD ABN: 54 110 094 301

FIRE DOOR CERTIFICATE

Certificate Number 0181

Project Name:

Warriewood Ferniers

Building Address:

Macpherson Street Warriewood NSW 2102

Part/Whole Building: Whole

The member company nominated certifies that the fire door sets identified on the attached Schedule have been inspected and labeled as required by the appropriate regulatory authorities in accordance with Australian standard AS1530.4 – 2005 and AS1905.1 – 2005 in respect to the evidence of Compliance at Clause 6.3 or 6.4. All fire doors are supplied and installed to comply in respect to supply, labeling and installation in accordance with the following Australian standards and BCA codes:

BCA Clause C3.4 & Clause C1.1 type A

AS 1530.4-2005 Methods For fire tests on building materials,

components and structures, Part 4: Fireresistance test of elements of building

construction

AS 1905.1-2005 Components for the protection of openings in

fire-resistant walls, Part 1: Fire-resistant

doorsets

Certified by **IKON DOORS PTY LTD**

Name of Certifier: Michael Ferguson

Signature:

Date:

03.08.09

TAG REGISTER **CERTIFICATE NUMBER 0181**

DATE: 03.08.09

PROJECT: SOUTHERN CROSS WARRIEWOOD FERNIERS

Door no.	Level	FIRE RATING	DOOR SIZE	TAG NO.
1.01 ENTRY	GROUND	1 HOUR	2040X920X38	17736
2.01 ENTRY	GROUND	1 HOUR	2040X920X38	17735
3.01 ENTRY	GROUND	1 HOUR	2040X920X38	17734
4.01 ENTRY	GROUND	1 HOUR	2040X920X38	17730
5.01 ENTRY	GROUND	1 HOUR	2040X920X38	17731
6.01 ENTRY	GROUND	1 HOUR	2040X920X38	17791
7.01 ENTRY	GROUND	1 HOUR	2040X920X38	17732
8.01 ENTRY	GROUND	1 HOUR	2040X920X38	17725
9.01 ENTRY	GROUND	1 HOUR	2040X920X38	17728
10.01 ENTRY	GROUND	1 HOUR	2040X920X38	17726
11.01 ENTRY	GROUND	1 HOUR	2040X920X38	17724
12.01 ENTRY	GROUND	1 HOUR	2040X920X38	17799
DAG 07 CORR	GROUND	2 HOUR	2045X1740X45	24489/24487
DAG 01 STAIR	GROUND	1 HOUR	2050X870X38	17727
DAG 09 STAIR	GROUND	1 HOUR	2050X870X38	17733
12.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17799
13.01 ENTRY	LEVEL 1		2040X920X38	17729
14.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17723
15.01 ENTRY	LEVEL 1		2040X920X38	17794
16.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17796
17.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17793
18.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17798
19.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17784
20.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17787
21.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17785
22.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17788
DAF 06 CORR	LEVEL 1	2 HOUR	2045X1540X45	24490/24486
DAF 01 STAIR	LEVEL 1	1 HOUR	2050X870X38	17782
DAF 08 STAIR	LEVEL 1	1 HOUR	2050X870X38	17797

IKON DOORSPTYLTD ABN: 54 110 094 301

FIRE DOOR CERTIFICATE

Certificate Number 0182

Project Name:

Warriewood Lakelands

Building Address:

Macpherson Street

Warriewood NSW 2102

Part/Whole Building: Whole

The member company nominated certifies that the fire door sets identified on the attached Schedule have been inspected and labeled as required by the appropriate regulatory authorities in accordance with Australian standard AS1530.4 – 2005 and AS1905.1 – 2005 in respect to the evidence of Compliance at Clause 6.3 or 6.4. All fire doors are supplied and installed to comply in respect to supply, labeling and installation in accordance with the following Australian standards and BCA codes:

BCA Clause C3.4 & Clause C1.1 type A

AS 1530.4-2005 Methods For fire tests on building materials,

components and structures, Part 4: Fireresistance test of elements of building

construction

AS 1905.1-2005 Components for the protection of openings in

fire-resistant walls, Part 1: Fire-resistant

doorsets

Certified by IKON DOORS PTY LTD

Name of Certifier: Michael Ferguson

Signature:

Date:

03.08.09

TAG REGISTER CERTIFICATE NUMBER 0182

DATE: 03.08.09

PROJECT:

SOUTHERN CROSS WARRIEWOOD LAKELANDS

Door no.	Level	FIRE RATING	DOOR SIZE	TAG NO.
DOUT NO.	revel	FIRE RATING	DOUR SIZE	TAG NO.
DBCB-04 SWITCH ROOM	BASEMENT	2 HOUR	2045X870X38	24450
DBCB-05 COMMS	BASEMENT		2045X870X38	24451
DBCB-06 PLANT ROOM	BASEMENT		2045X1740X45	24474/24475
DBCB-11 SPRINKLER	BASEMENT		2040X870X38	24418
23.01 ENTRY	GROUND	1 HOUR	2040X920X38	17469
24.01 ENTRY	GROUND	1 HOUR	2040X920X38	17721
25.01 ENTRY	GROUND	1 HOUR	2040X920X38	17743
26.01 ENTRY	GROUND	1 HOUR	2040X920X38	17702
27.01 ENTRY	GROUND	1 HOUR	2040X920X38	16444
28.01 ENTRY	GROUND	1 HOUR	2040X920X38	16292
29.01 ENTRY	GROUND	1 HOUR	2040X920X38	17706
30,01 ENTRY	GROUND	1 HOUR	2040X920X38	17781
47.01 ENTRY	GROUND	1 HOUR	2040X920X38	17708
48.01 ENTRY	GROUND	1 HOUR	2040X920X38	17753
49.01 ENTRY	GROUND	1 HOUR	2040X920X38	17746
50.01 ENTRY		1 HOUR	2040X920X38	17705
51.01 ENTRY	GROUND	1 HOUR	2040X920X38	17707
52.01 ENTRY	GROUND	1 HOUR	2040X920X38	17750
DBCG-01 STAIR DBCG-06 CORR	GROUND	1 HOUR 2 HOUR	2050X870X38	1776B 24448/24449
			2045X1740X45	
DBCG-10 STAIR DBCG-13 MEETING ROOM	GROUND	1 HOUR 1 HOUR	2050X870X38 2045X870X38	17713 17754
DBCG+13 WEETING ROOM	GROUND	THOOK	20452870238	17754
31.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17701
32.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17751
33.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17755
34.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17467
35.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17466
36.01 ENTRY	LEVEL 1	1 HOUR	2040X920X38	17772
37.01 ENTRY		1 HOUR	2040X920X38	17764
38.01 ENTRY		1 HOUR	2040X920X38	17776
53.01 ENTRY		1 HOUR	2040X920X38	17757
54.01 ENTRY		1 HOUR	2040X920X38	17763
55.01 ENTRY		1 HOUR	2040X920X38	17709
56.01 ENTRY		1 HOUR	2040X920X38	17704
57.01 ENTRY		1 HOUR	2040X920X38	17800
58.01 ENTRY		1 HOUR	2040X920X38	17720
DBCF-01 STAIR		1 HOUR	2050X870X38	17738
DBCF-03 STAIR DBCF-06 CORR		1 HOUR 1 HOUR	2050X870X38 2045X1740X45	16448 24442/24443
DBCF-00 CORK	LEVEL (HOUR	2045/1740/45	24442124443
39.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	16447
40.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17752
41.01 ENTRY		1 HOUR	2040X920X38	17717
42.01 ENTRY		1 HOUR	2040X920X38	17710
13.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17759
14.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17766
5.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17765
6.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17775
9.01 ENTRY	LEVEL 2	1 HOUR	2040X920X38	17749
		1 HOUR	2040X920X38	17756
		HOUR	2040X920X38	17775
32.01 ENTRY 33.01 ENTRY		1 HOUR	2040X920X38 2040X920X38	17773 17703
34.01 ENTRY		1 HOUR	2040X920X38 2040X920X38	16445
		1 HOUR	2050X870X38	17714
DBCS-03 STAIR	LEVEL 2	1 HOUR	2050X870X38	17716
DBCS-06 CORR	LEVEL 2	HOUR	2045X1740X45	24452/24453



PREMIER FIRE PROTECTION SERVICES (NSW) PTY LTD

A.C.N. 087 986 258 A.B.N. 30 087 986 258

No. 2 Railway Parade, Thornleigh NSW 2120 Phone: (02) 9980 8777 / Fax: (02) 9980 9676

FINAL FIRE SAFETY STATEMENT Environmental Planning and Assessment Act 2000

Address of Building:

APA Group

Level 19

Level 19

580 George Street, Sydney

Owner's Name:

Owner's Address:

Date of Assessment:

7th July, 2009

List of essential/critical fire safety measures:

MEASURES	STANDARD OF PERFORMANCE
Automatic Fire Sprinkler System	AS 2118
Emergency Warning & Intercommunication System	AS 2220

Y.	CRAIG JEHN of	COLD GOLLANDO DEDI	ANTENDERS	CEDIMORO (MCV)	IN DTW LIMITE	TD a autifur that
	CRAIL-JEHN OF	PREVIER KIRI	PROTECTION	SERVIL ESTINOV	VIPIY LIVIII	cerniv mai

- (a) each of the essential fire safety measures listed above
- has been assessed by a properly qualified person and;
- (ii) was found, when it was assessed, to be properly implemented and to be capable of performing to a standard not less than that required by the most recent fire safety schedule for the building for which the schedule was issued.
- (b) the information contained in this Certificate is, to the best of my knowledge and belief, true and accurate.

Date:

7th July, 2009

Signed:

NOTES: 1.

A copy of this Statement must be forwarded to the Council and Commissioner of the New South Wales Fire Brigades and a copy must be prominently displayed in the building.

Attachment M2 Mechanical Ventilation Certificate of Completion and Performance Ventilation, Acoustics, Fire Precautions, Smoke Hazard Management

ADDRI	ESS: Part L19, 580 George Street Sydney
FITOU	T NUMBER:
that the	t to the provisions of Section 93 of the Local Government Act 1993 ⁽ⁱ⁾ , I hereby certify mechanical ventilation system has been installed or altered at the above premises in new with the Certified Drawings and Documentation specificed in Attachment M1 dated and in accordance with the approved plans released for construction.
performs	talled mechanical ventilation system has been inspected, commissioned and tested, and in accordance with the approved plans, the accepted Certified Design, and any ation granted by Council or the Fire Brigade.
	of the performance tests as applicable are submitted in the attached documents: r quantities, air movement, air temperature
	f registration under the Public Health Act: here is a Cooling Tower or other system requiring registration under the Public Health Act.
Ti	ick the appropriate square Yes \square No X
2.1 T	he Council Registration number isN/A
mechani ventilati	by certify that I am an appropriately qualified and competent person in the area of ical ventilation and as such can certify that the installation and performance of mechanication systems comply with the Building Code of Australia, the plans approved by Council, As dother relevant Codes.
I posses	s Indemnity Insurance to the satisfaction of the building owner or my principal.
Date/s of Full Na Qualifie Address Telepho Signatu	Development Consent (Compulsory) of Construction Certificate (Compulsory) ome of Certifier: Norm Stoliar cations and Experience BE (MIE)AUST CP ENG s of Certifier 94 SOUTH ST RYDALMERE one Numbers: Bus 96386100 Mob 0418221344 Fax 96387111 ore 22nd July 2009 of Employer, (Self or Company) COMPUTER AIR P/L
(ii) A	the Local Government Act 1993 absolves Council from liability by relying on this Certificate; ttach all test figures and other documentary evidence to which this Certification applies; lease submit Curriculum Vitae with your first Certification.

ELECTRICAL & FIRE SAFETY INTERIM STATEMENT CERTIFICATE

City of Sydney City/Municipality/ or Shire:

HSBC Building **Building Name:**

Level 19, 580 George Street Sydney NSW 2000 Address:

Owner's/Tenancy Name: **APA Group**

List of essential fire or other safety measures designated by Council in the Schedule attached to its approval:-

Emergency Lighting	Emergency Lighting - BCA Clauses E4.2/E4.4 and AS/NZS 2293.1 - 2005 Exit Signs - BCA Clauses E4.5/NSW E4.6/E4.7/E4.8 and AS/NZS 2293.1 - 2005
General Power	AS/NZS 3000:2000/Amdt 3:2003
Lighting	AS/NZS 3000:2000/Amdt 3:2003, BCA Section J6 BCA 2007 Part 4.4, AS 1680 1998
Communication Cabling	AS/NZS 3085.1:2004
Connection of extra Power, Lighting and Communication Cabling to suit APA Group office revamp.	For and behalf of Grose Technologies PTY LTD 2 Rossell Place Glenfield NSW 2167

I, Matthew Grose of Grose Technologies Pty Ltd

Certify that:-

- (a) Each of the essential fire, electrical or other safety measures listed above has been assessed by a person chosen by me, and
- (b) The building has been inspected by a person chosen by me who, for the purposes of that inspection, had regard to the provisions of current Australian Standards and best practise.
- (c) The persons concerned were, to the best of my knowledge and belief, properly qualified to conduct the relevant assessments, and
- (d) Based on the results of the assessments undertaken:
 - Each of the measures listed above:

Is capable of functioning at a standard of performance not less than that required by Australian Standards and Building Codes Australia.

(e) The Information contained in this Certificate is to the best of my knowledge and belief true and

DATE: 03-07-09

SIGNED:

Matthew Grose



ABN 39 080 621 601

80 Power Street St Marys NSW 2760 P.O. Box 2474 Smithfield NSW 2164

22nd June, 2009.

Keystone Interiors Pty Limited Unit 33 7-9 Percy Street, AUBURN NSW 2144

Fax Number: 9649-9140

CERTIFICATE OF COMPLIANCE

This is to certify that Clearwall Contracting Pty Limited uses glass, which carries the Australian Standard 2208 and has installed this glass to Australian Standard 1288-2006 at APA Group, Level 19, 580 George Street, Sydney.

Certified by Michael Mallia, a qualified and certified glazier in excess of 20 years.

Should you require any further information, please do not hesitate to contact this office.

Yours faithfully,

Michael Mallia

Clearwall Contracting Pty Limited

Telephone: (02) 9833 3390 • Facsimile: (02) 9833 4465 • Email: clearwal@bigpond.not.au

FIRE DAMPERS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

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1 nere	D٧	certify	inat

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire dampers	BCA2008 Clause C3.15 and AS/NZS 1668.1 – 1998 (AS 1682.1-1990 and AS 1682.2-1990)

b)	I am a properly qualified person and have a good working knowledge of the relevant codes and standards
	referenced above. (My qualifications and accreditations are listed below)
-	the state of the s

Relevant qualifications and accreditations:	idember	INSTITUTZ	OF	ENGWEERS	
AUSTRALIX (MEAUST) 2615295					_
MEMBER AIRAH 13944					

Name: _	Rico	_ Ni	W3003	کبر							
Company:	GA	RRIC	Pry.	LTO.	4/0	Air	Condit	louin	g Service	25 (AL	ut)
Address:_	9,	2-6	Chap	lin	Vivie	la	ne Cou	e, t	isw		
Phone No.	.02	947	ण मं	79			Fax No	52	9428-2-	159	

No. 8757 P. 2

c) The information contained in this statement is true and accurate to the best of my knowledge.

VENTILATION (GENERAL) - INSTALLATION CERTIFICATE

Project Name	Warriewcod – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Ventilation (general)	BCA2008 Clause NSW F45(b) and AS 1668.2 - 1991	

 b) I am a properly qualified person and ha referenced above. (My qualifications ar 	ve a good work	king knowledge of as are listed below)	the relevant co	odes and standards
Relevant qualifications and accreditations:_	MEAUT	2615295,	MAIRAH	13914

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name:	Rico	NI	M3 000	rus								
Company	GAR	RIC	Pry.	40.	Ya.	Air	Con	active	ing	Senaces	(Austra	ALIA)
Address:	9.2	-6	chap	lin!	DVIN	e, L	ave	Cove	e N	Sw.		
Phone No						N. C.		Fax No.	92	9428-	2759	

16/06/09 Date

AUTOMATIC FAIL SAFE DEVICES - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

ĺ	hereby	/ certify	that:
ı	Helen	CELLII	u ici.

 a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Automatic fail safe devices	Scheduled devices release upon irip of smoke detection, fire detection and sprinkler activation in accordance with BCA2008 clauses D2.19(b) and D2.21 (d) and/or AS 1670.1

			lood working knowledge of the relevant codes and streditations are listed below)	andards
Relevant qual	ifications and accr	editations: Elec	trician	
c) The inform	mation contained i	n this statement is	s true and accurate to the best of my knowledge.	
Name:	Andrew Mitch	ell		
Company:	Heyday Group	Pty		
Address: 91	Waterloo Road, No	orth Ryde, NSW, 2	2113	
Phone No	98556666	Fax No	98556691	
11 1	11			
ME	4		20 th July 2009	
Signature			Date	

F.B. BUILDING PTY LTD BRICK AND BLOCKLAYING CONTRACTORS

ABN: 50 106 485 009

P.O. Box 231, Seaforth NSW 2092

PHONE: 9949 8607 FAX: 9949 8708

EMAIL: fbbuild@bigpond.net.au

DAMP PROOFING - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 McPherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

I hereby certify that:

 The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Damp proofing	BCA2008 Clauses F1.9 and F1.10 and • AS/NZS2904 or AS3660.1; and • AS2870	

 b) I am a properly qualified person and have a good working knowledge of the relevant codes and standards referenced above. (My qualifications and accreditations are listed below)

Relevant qualifications and accreditations:

35 year experience in the construction industry, Contractor Licence #179937C and Supervisor Licence #30403S

c) The information contained in this statement is true and accurate to the best of my knowledge.

Name: FRANK BARBALACE
Company: F.B. BUILDING PTY LTD

Signature

Address: UNIT C/4, 1 CAMPBELL PARADE, MANLY VALE NSW 2093

Phone No. (02) 9949 8607 Fax No. (02) 9949 8708

Wednesday, 17 June 2009

U

C4/1 CAMPBELL PARADE, MANLY VALE NSW 2093 CONTRACTOR LIC. NO. 179937C

EMERGENCY LIGHTING - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building) A, and B/C

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,	110101	/ Y -	CIL	17 6	114	٠

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Emergency lighting	BCA2008 Clause E4.2, E4.4 and AS 2293.1 – 2005

c) The information contained in this stat	tement is true and accurate to the best of my knowledge.
Name: Jonathan Ryan	
Company: Banabelle Electrical Pty Ltd	
Address: 6/11 Ponderosa Parade Warrie	
Address: 6/11 Ponderosa Parade Warrier	wood 2102
Address: 6/11 Ponderosa Parade Warrie	wood 2102
Company: Banabelle Electrical Pty Ltd Address: 6/11 Ponderosa Parade Warrier Phone No. (02) 9999-3344	wood 2102
Address: 6/11 Ponderosa Parade Warrier	wood 2102

EXIT SIGNS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building) A and B/C

i		-		
ı	horo	211	certify	, that
ı	HELE	UV	Celun	ulat.

 a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance	
Exit signs	BCA2008 Clause E4.5, NSW E4.6, E4.8 and AS 2293.1 - 2005	

b) I am a properly qualified person and have a good working knowledge of the relevant codes and standar referenced above. (My qualifications and accreditations are listed below) Relevant qualifications and accreditations: Electrical Contractors licence 121952C			
	ement is true and accurate to the best of my knowledge.		
Name: Jonathan Ryan			
Company: Banabelle Electrical Pty Ltd			
Address: 6/11 Ponderosa Parade Warriew	rood 2102		
Phone No. (02) 9999-3344	Fax No. (02) 9979-6667		
Signature			

FIRE SEALS PROTECTING OPENINGS IN FIRE RESISTING COMPONENTS OF THE BUILDING – ELECTRICAL PENETRATIONS - INSTALLATION CERTIFICATE

Project Name	Warriewood - Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building) A and B/C

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I hereb	IN COL	TITY T	nati
LICION	J Y 001	CILY C	I ICIL

a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Fire seals protecting openings in fire resisting components of the building- Electrical penetrations	BCA2008 Clause C3.15 and AS 1530.4 and AS 4072.1 and installed in accordance with the tested prototype.

referenced above. (My qualifications ar	nd accreditations are listed below)
Relevant qualifications and accreditations: I	Electrical Contractors licence 121952C
The information contained in this states	ment in this and accurate to the heat of my knowledge
c) The information contained in this stater	ment is true and accurate to the best of my knowledge.
Name: Jonathan Ryan	
Company: Banabelle Electrical Pty Ltd	
TOTAL TOTAL CONTRACTOR OF THE PROPERTY OF	ood 2102
TOTAL TOTAL CONTRACTOR OF THE PROPERTY OF	ood 2102 Fax No. (02) 9979-6667
Address: 6/11 Ponderosa Parade Warriewo	

SMOKE DETECTORS AND HEAT DETECTORS - INSTALLATION CERTIFICATE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

			CHARLES THE PARTY NAMED IN	
١	horo	har	certify	that.
ı	nere	UV	CELLIA	ulat.

The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

Measure and/or system	Standards of Performance
Smoke detectors and heat detectors (detectors for the automatic closing operation of horizontal exits)	BCA2008 Clause C3.7 and AS 1670.1 – 2004
Smoke detectors and heat detectors (detectors for the automatic closing operation of smoke doors)	BCA2008 Specification C3.4 and AS 1670.1 – 2004

b) I am a pro	perly qualified person and have a good d above. (My qualifications and accredit	working knowledge of the relevant codes and standards ations are listed below)
	fications and accreditations:	
c) The inforr	nation contained in this statement is true	e and accurate to the best of my knowledge.
Name:	Andrew Mitchell	· ·
Company:	Heyday Group Pty	
Address:	9 Waterloo Road, North Ryde, NSV	V, 2113
A CONTROL OF THE PARTY OF THE P	ne No. 98556666	Fax No. <u>98556691</u>
R		14 th July 2009
Signature		Date

LIGHTING (GENERAL) - INSTALLATION CERTIFICATE

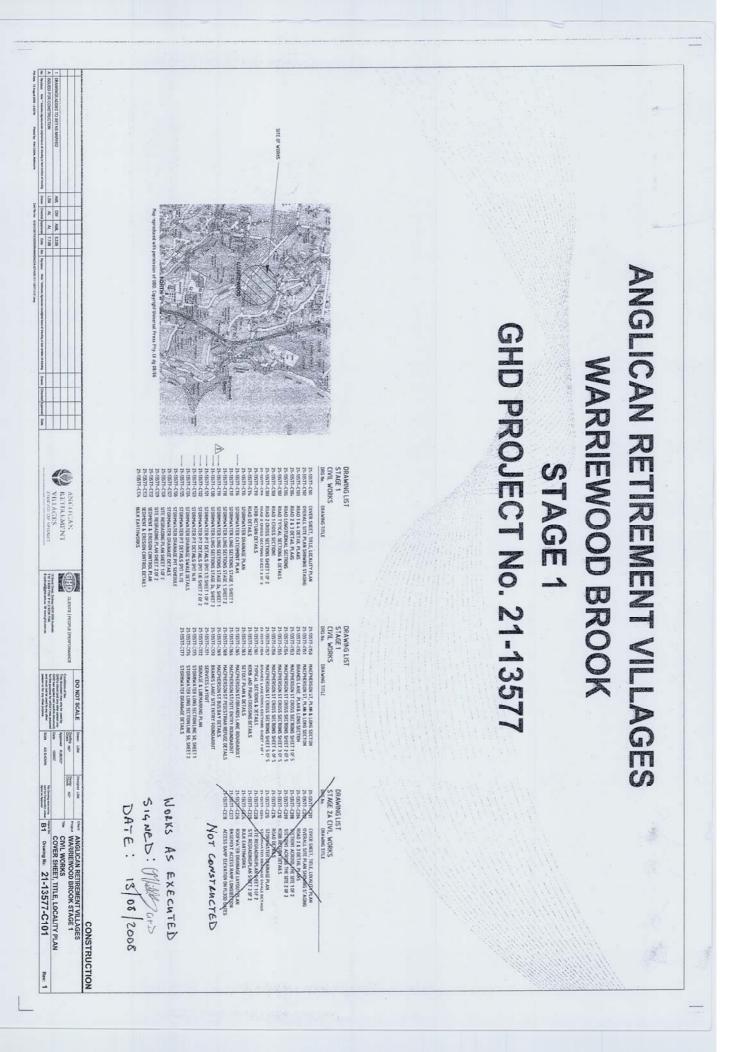
Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work (entire building)

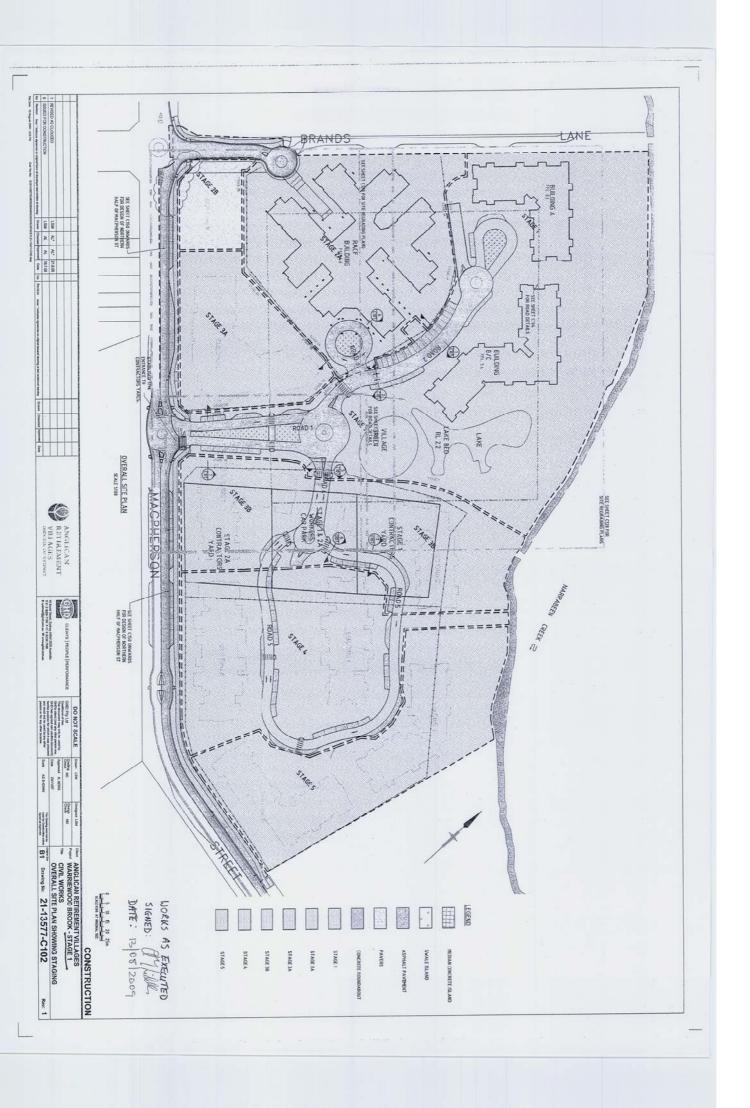
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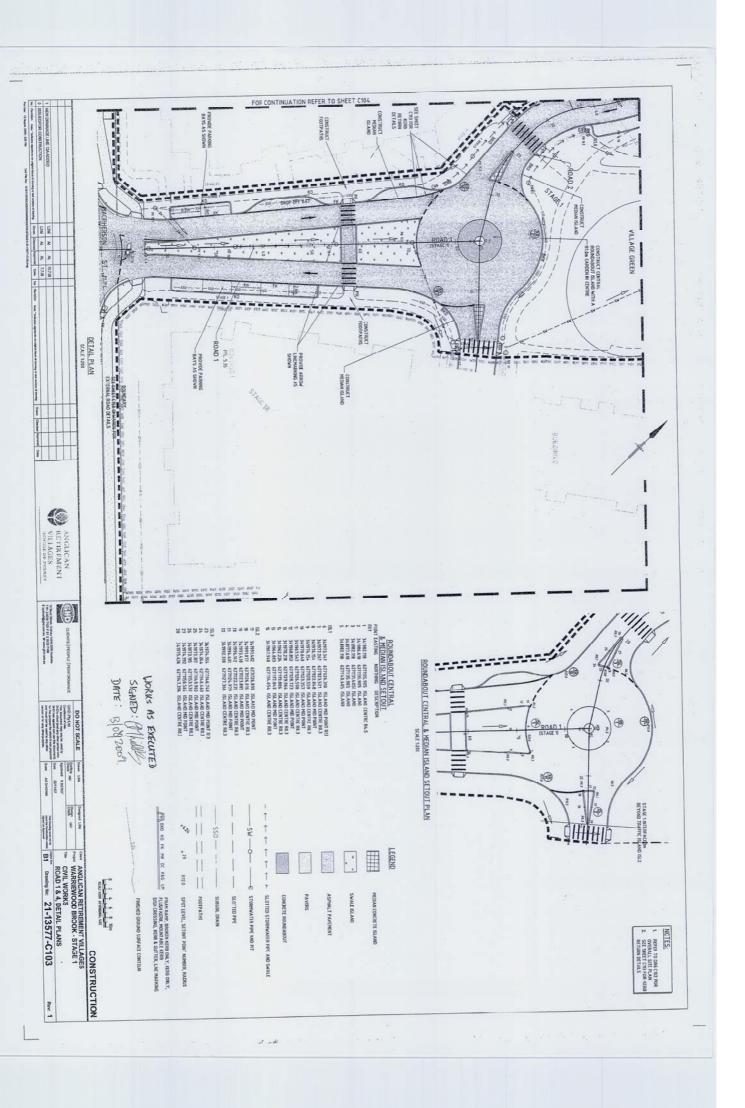
 a) The works have been inspected during construction and have been completed in accordance with the nominated Standards of Performance.

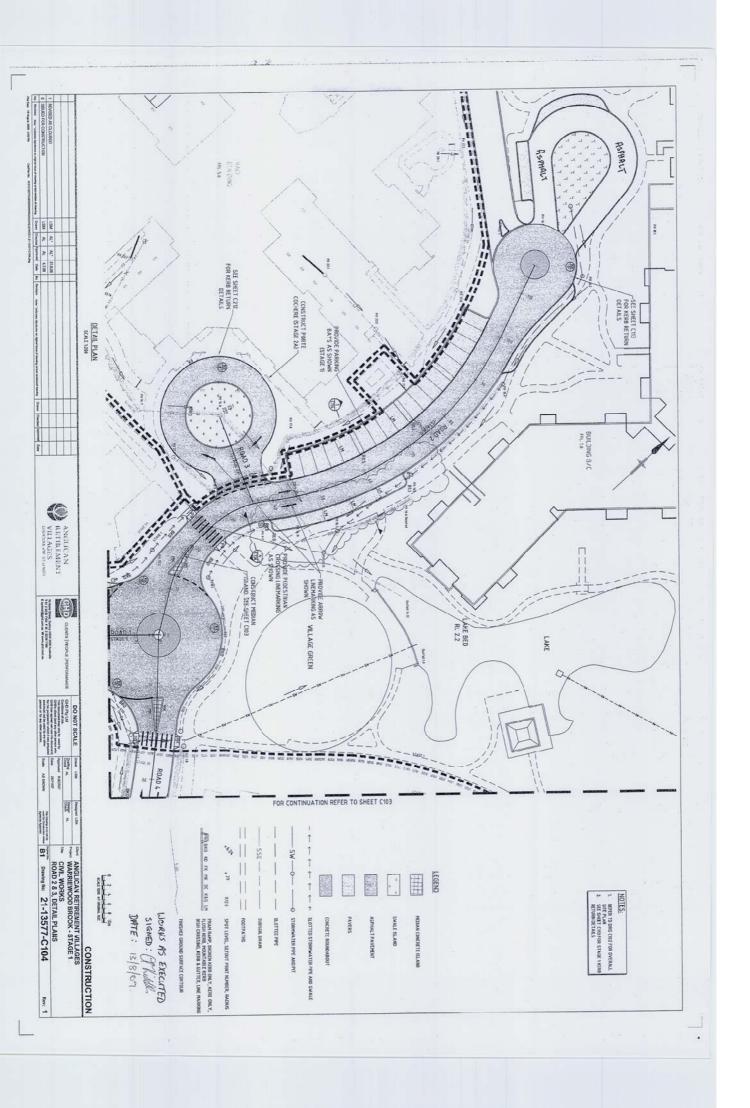
Measure and/or system	Standards of Performance	
Light (general)	BCA2008 Clause F4.4 and AS 1680.0 - 1998	

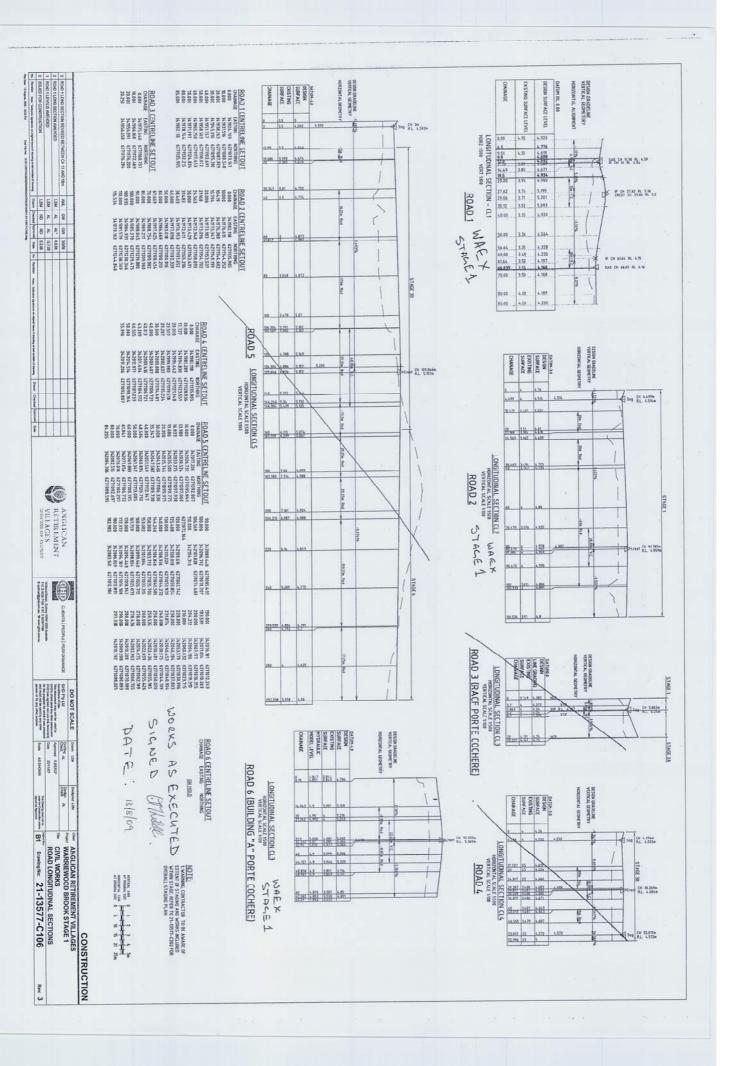
 I am a properly qualified person and have a good referenced above. (My qualifications and accredite 	working knowledge of the relevant codes and standards ations are listed below)
Relevant qualifications and accreditations: Electrical C	Contractors licence 121952C
c) The information contained in this statement is true	e and accurate to the best of my knowledge.
Name: Jonathan Ryan	
Company: Banabelle Electrical Pty Ltd	
Address: 6/11 Ponderosa Parade Warriewood 2102	
Phone No. (02) 9999-3344	Fax No. (02) 9979-6667
11/	
	1 1 1 2 2
11/1	17th July 2009

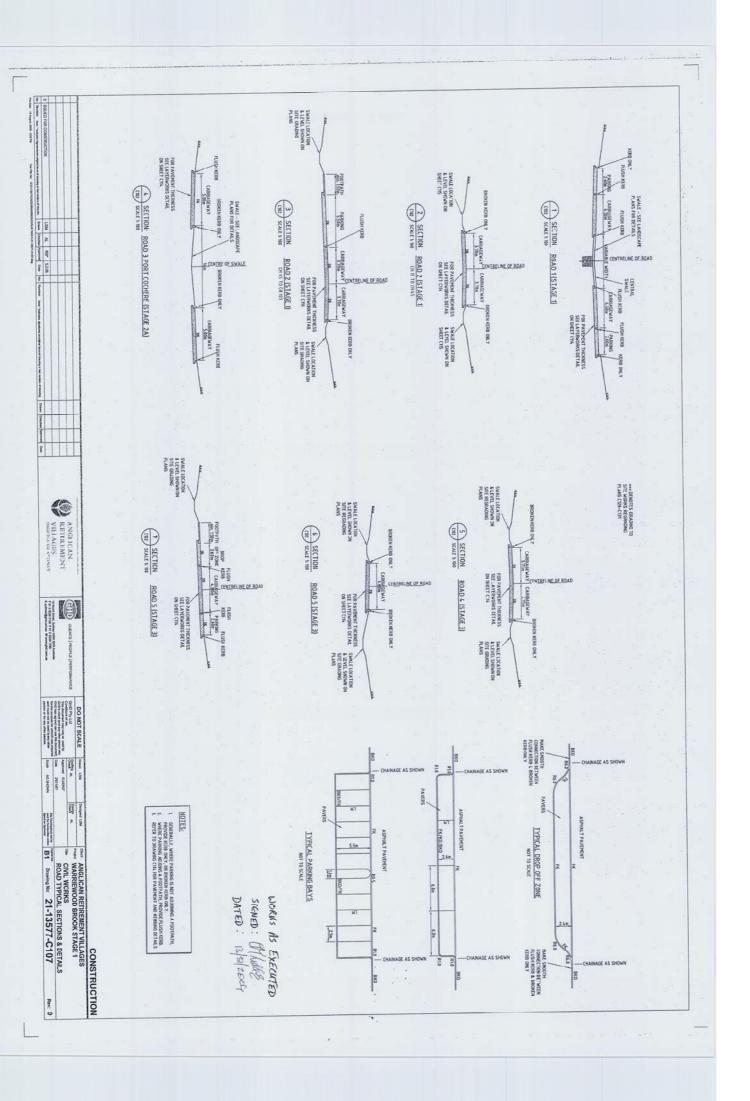


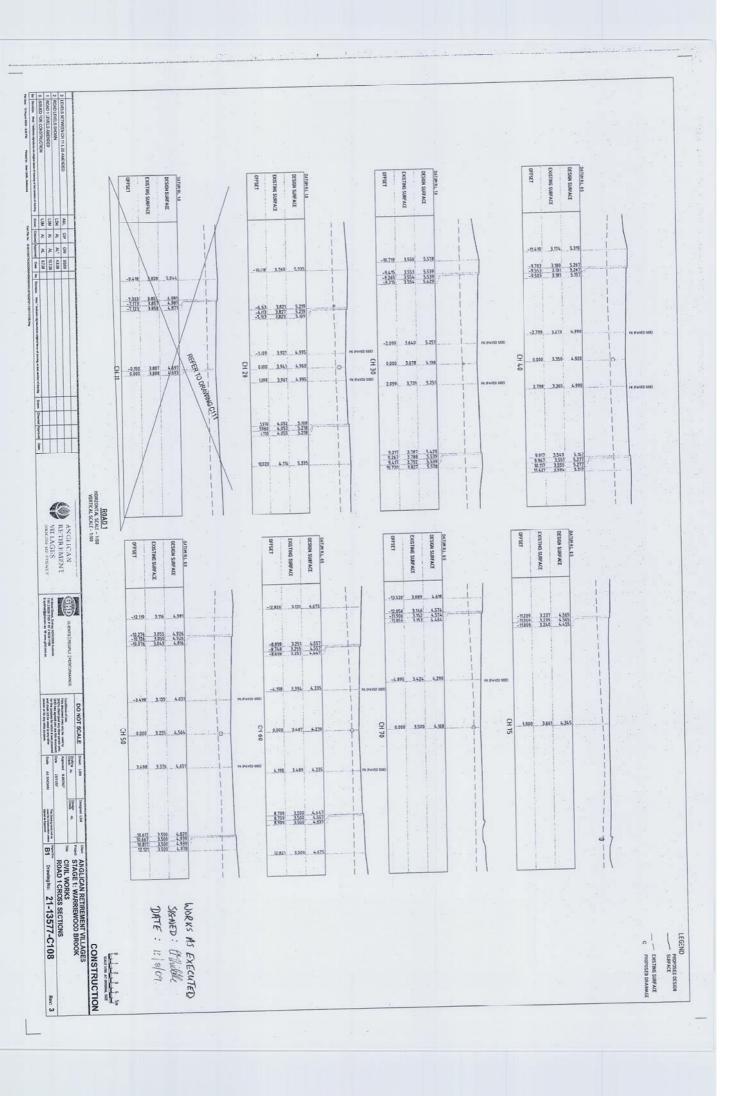


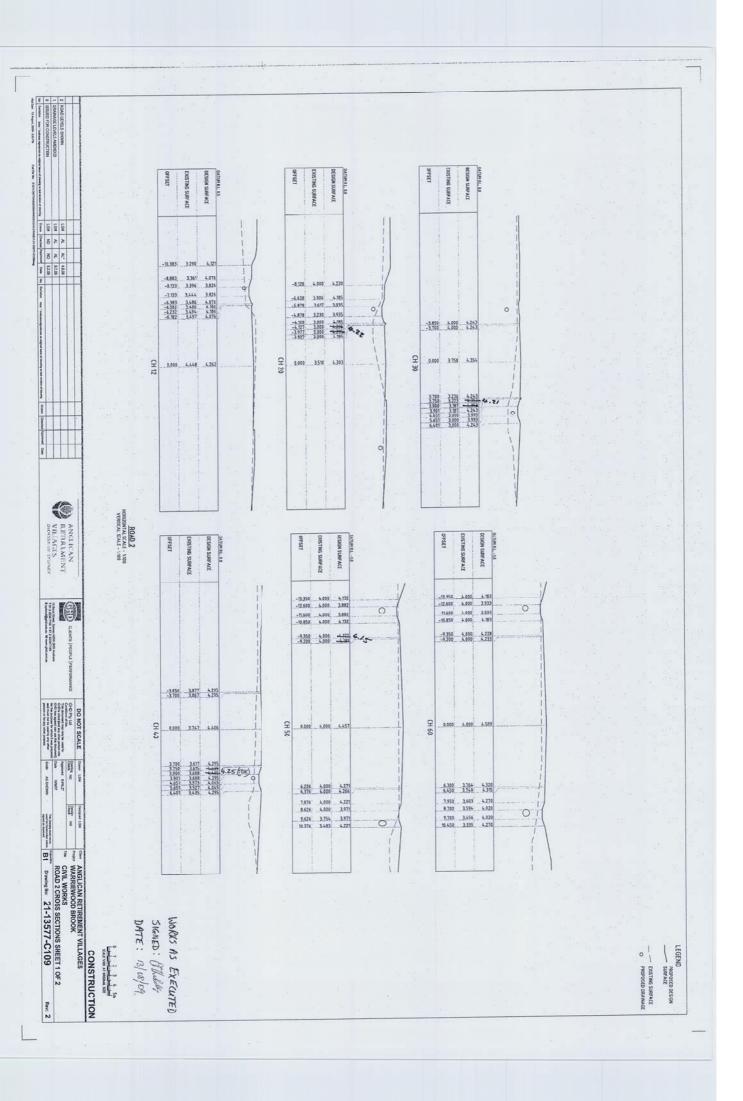


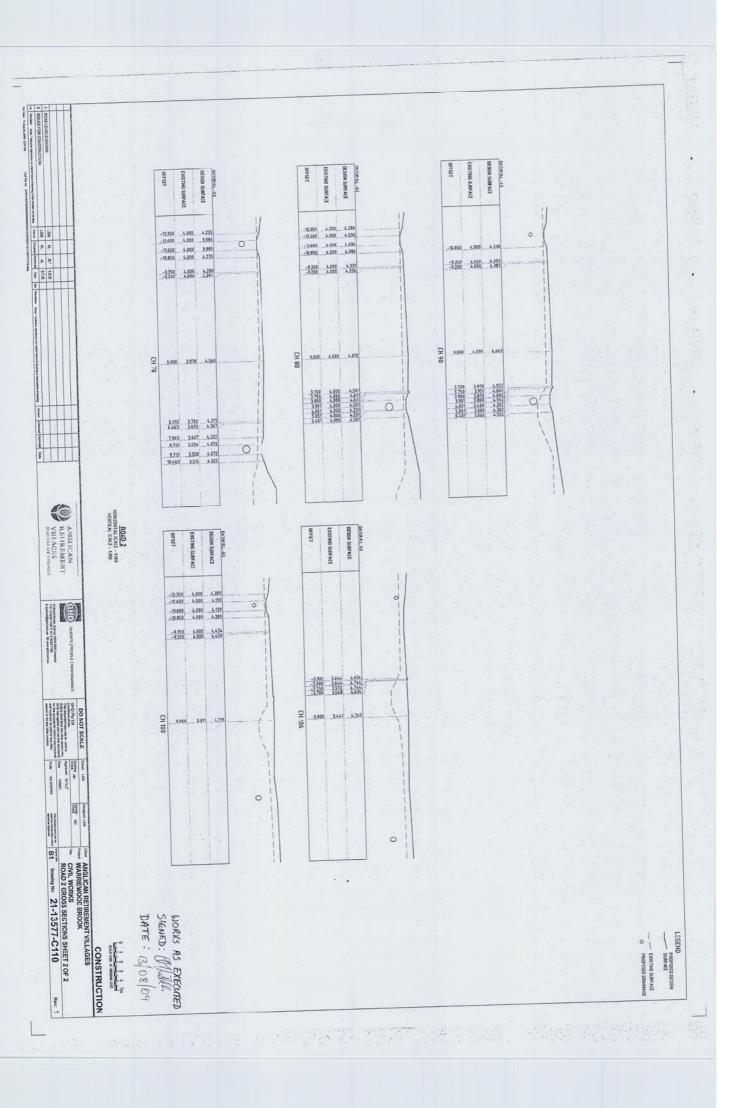


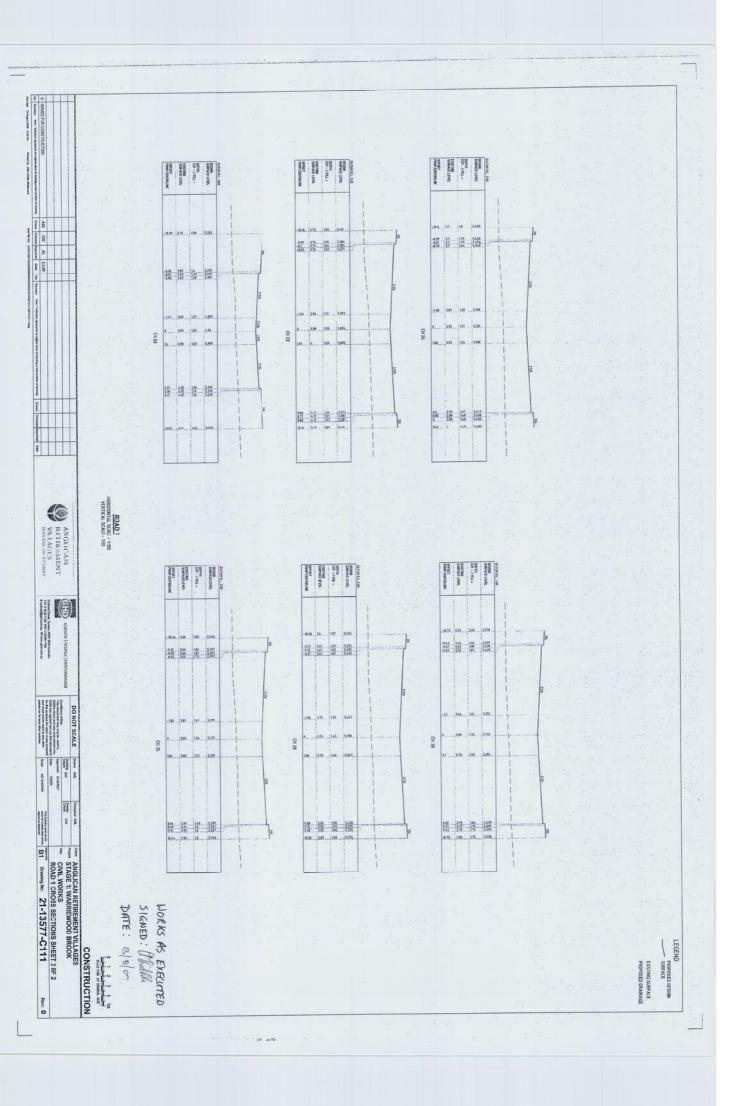


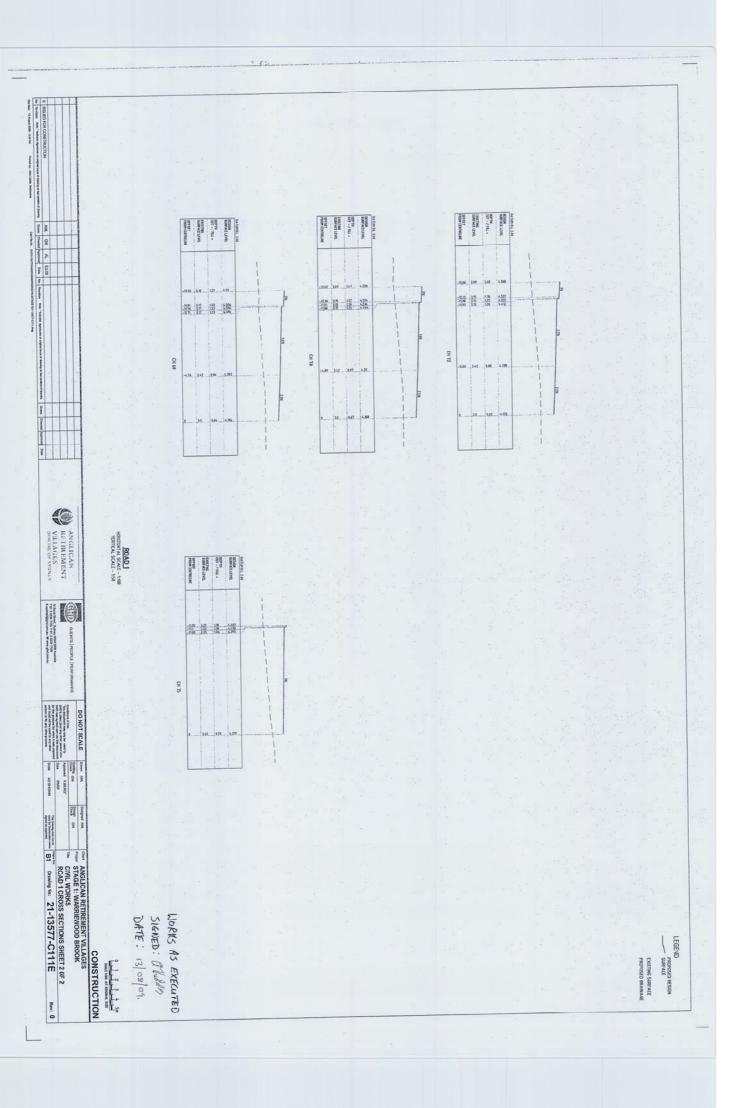


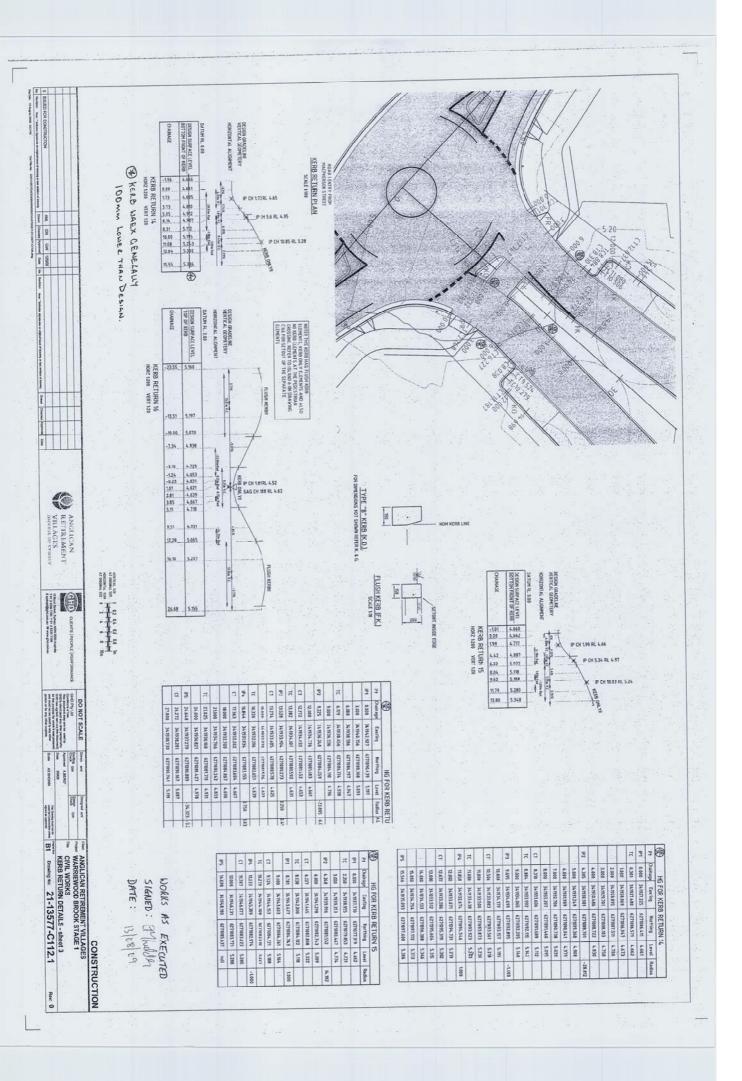


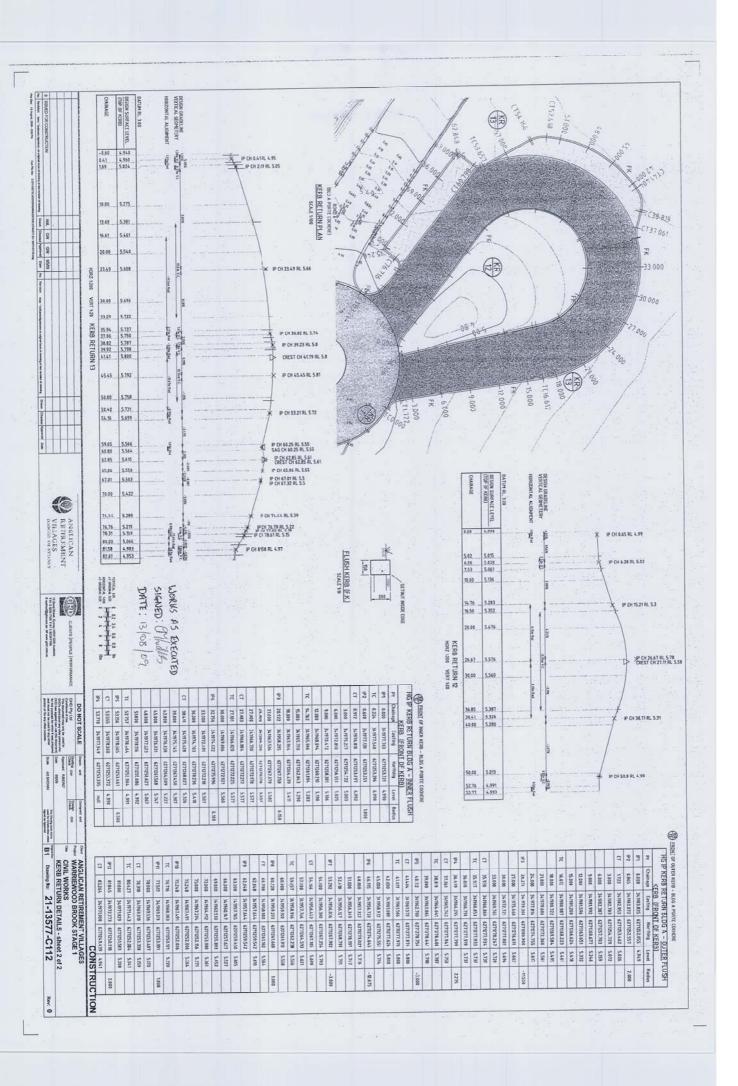


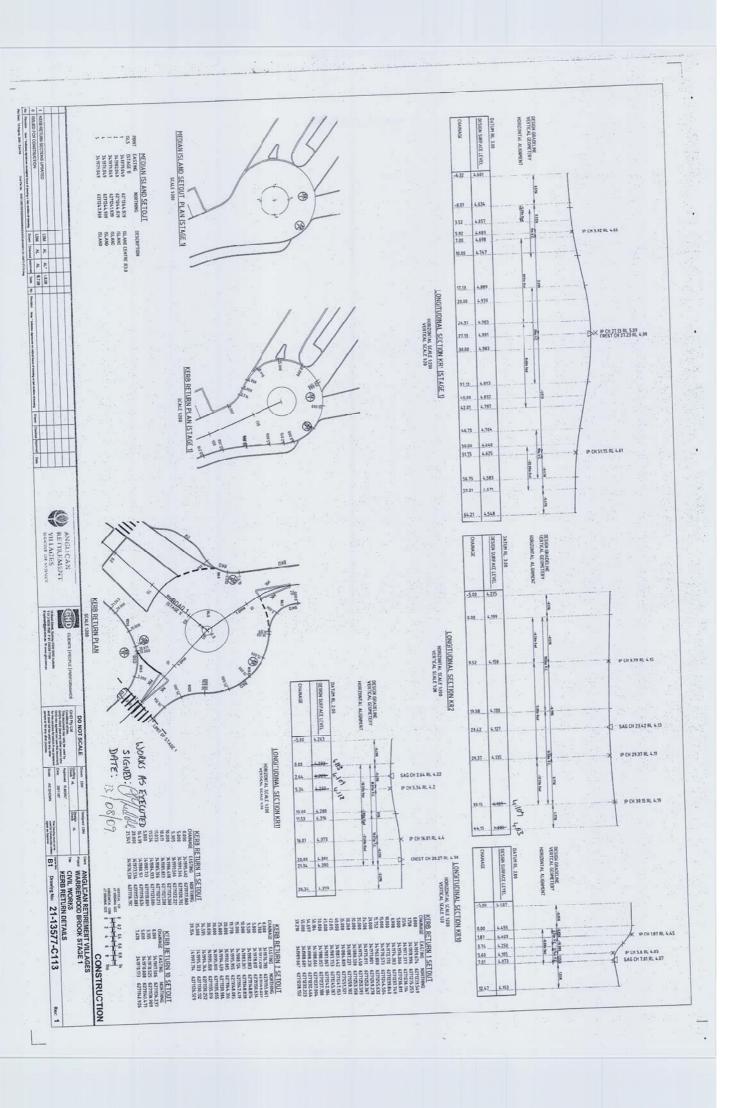


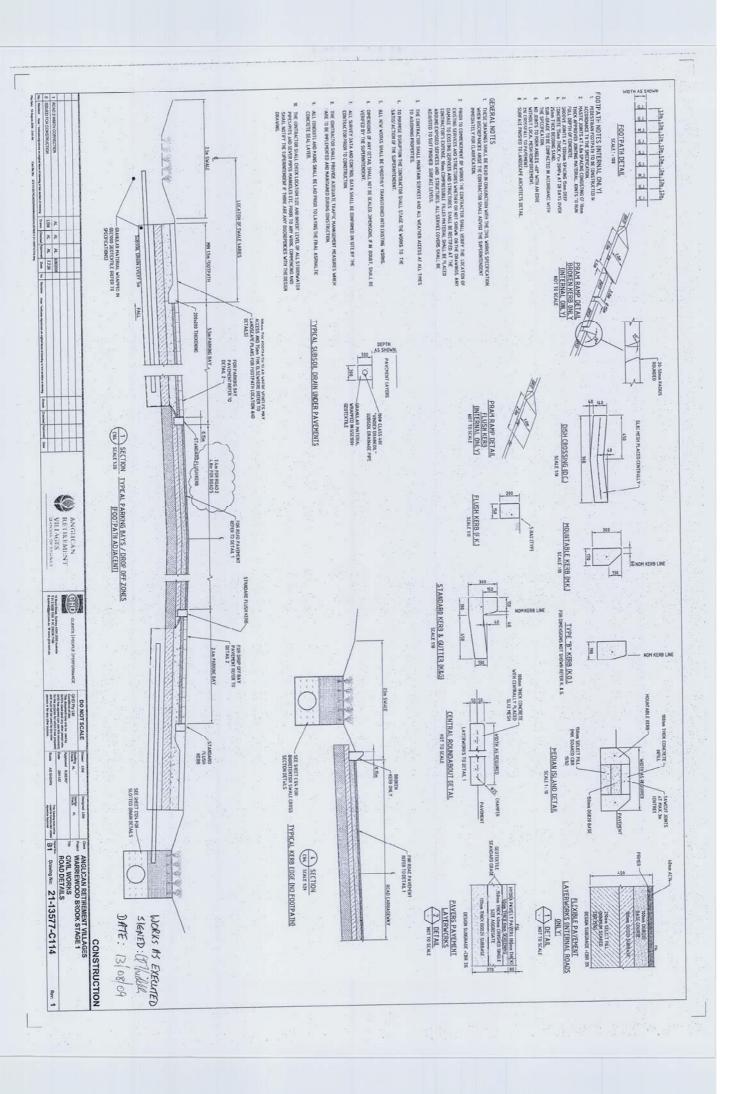


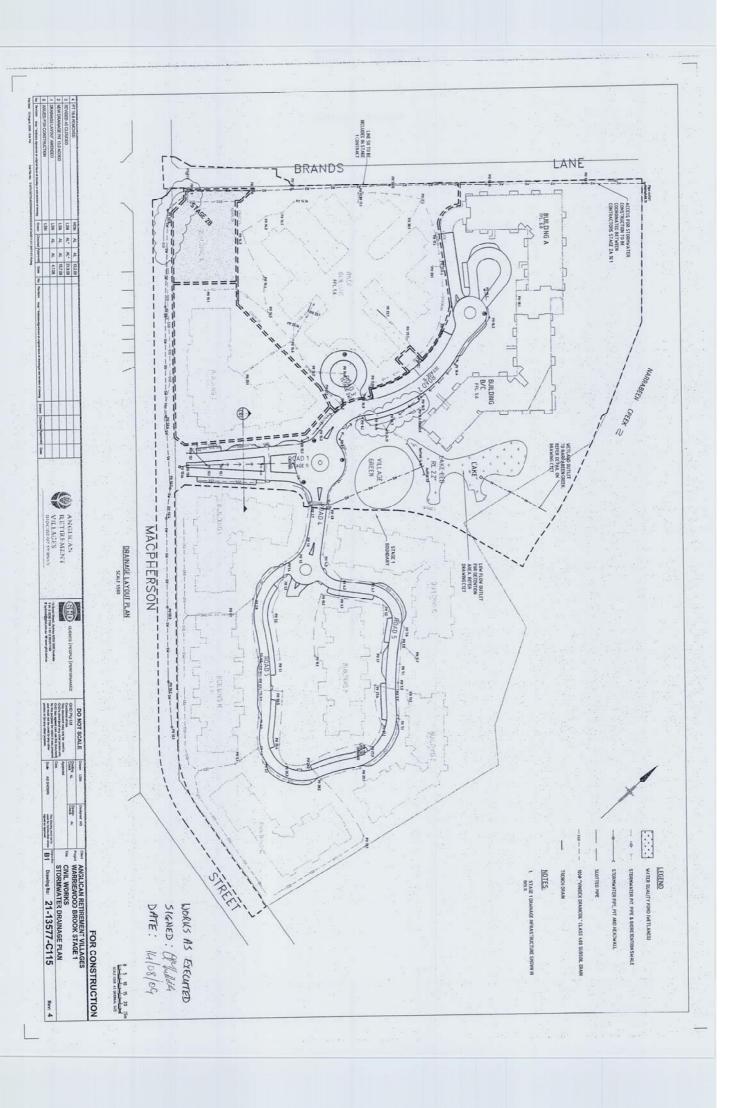


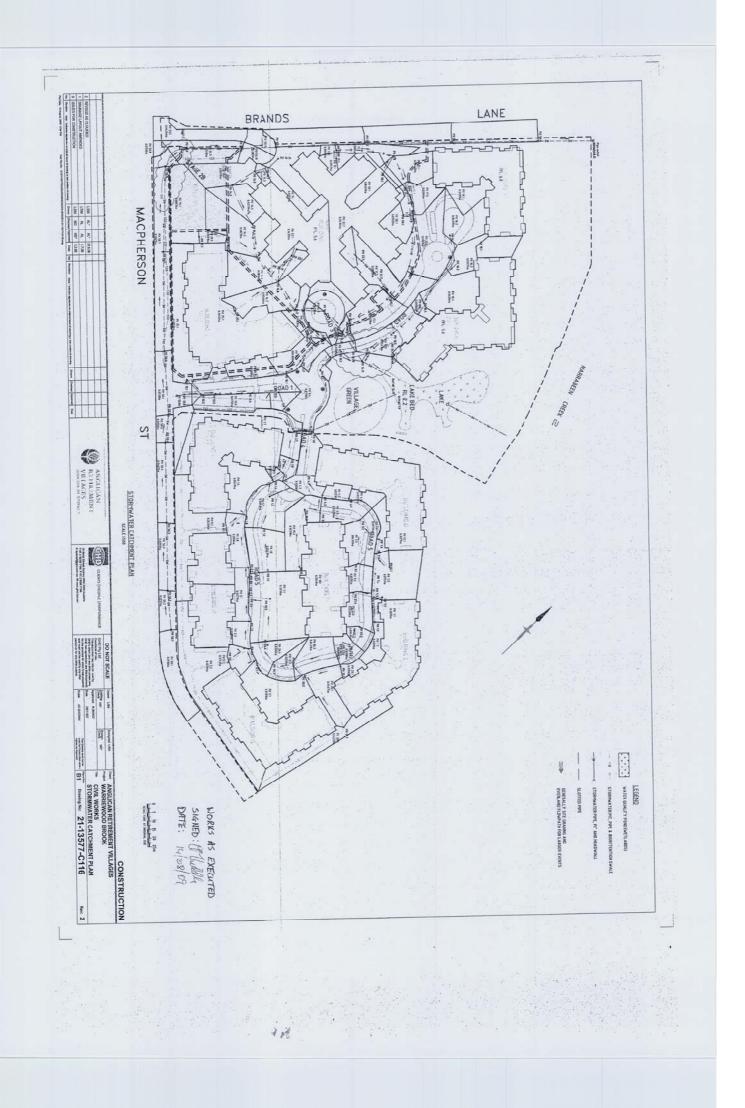


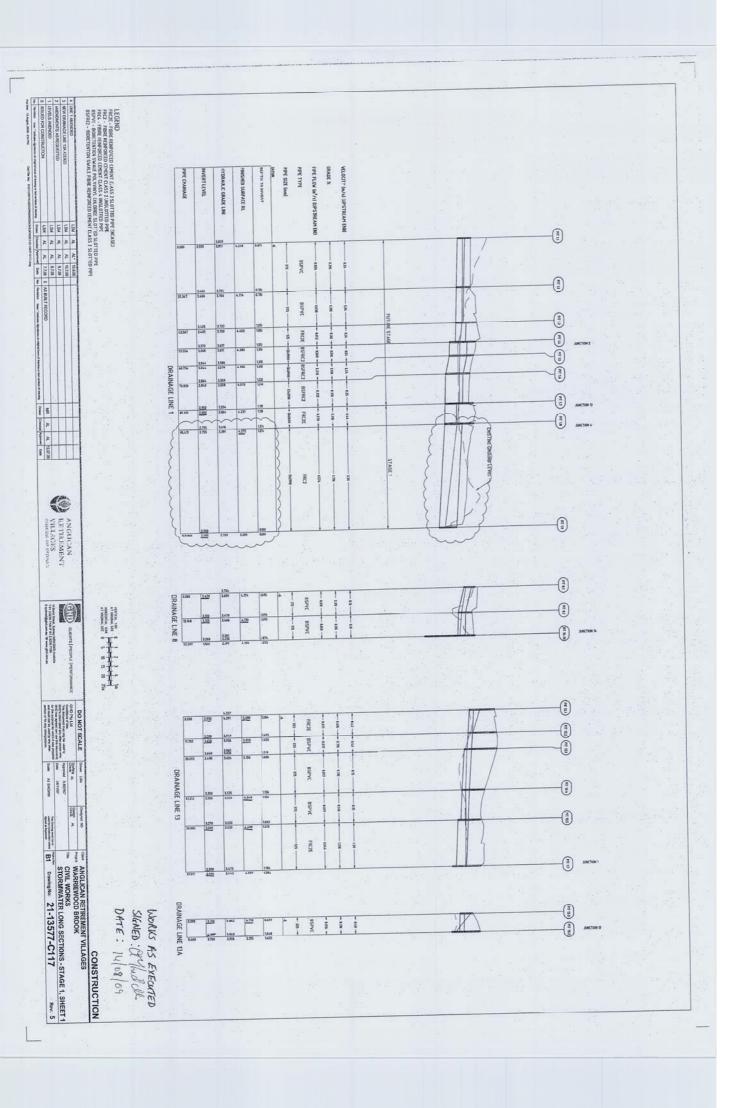


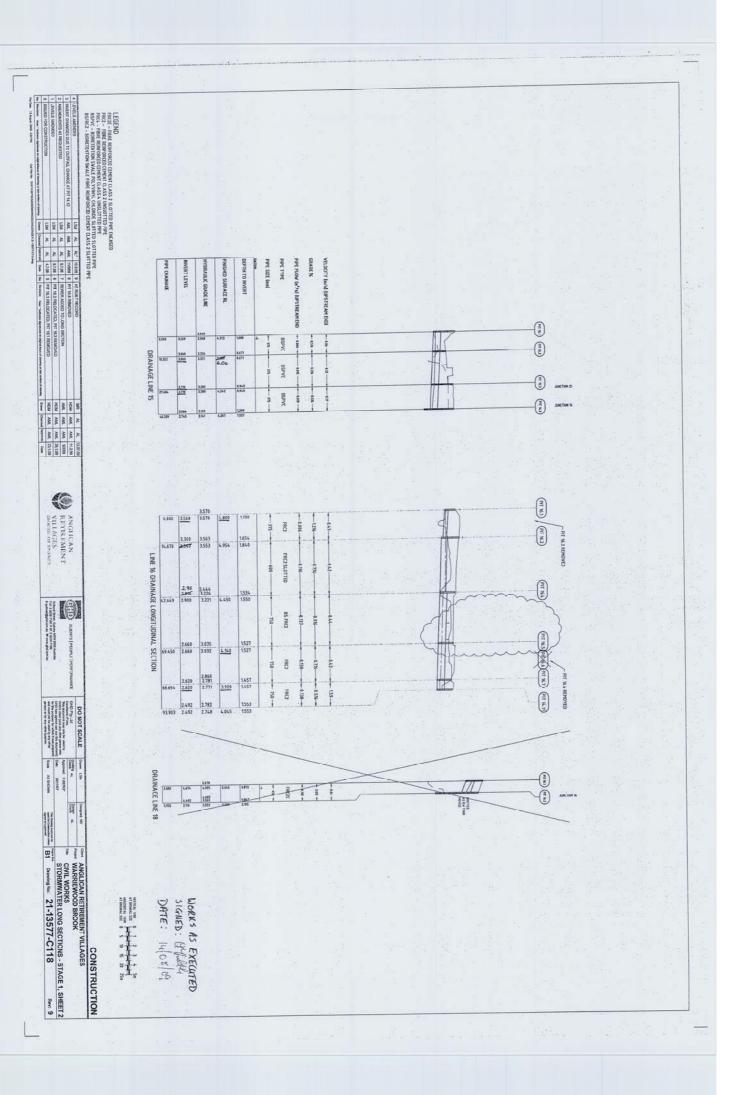


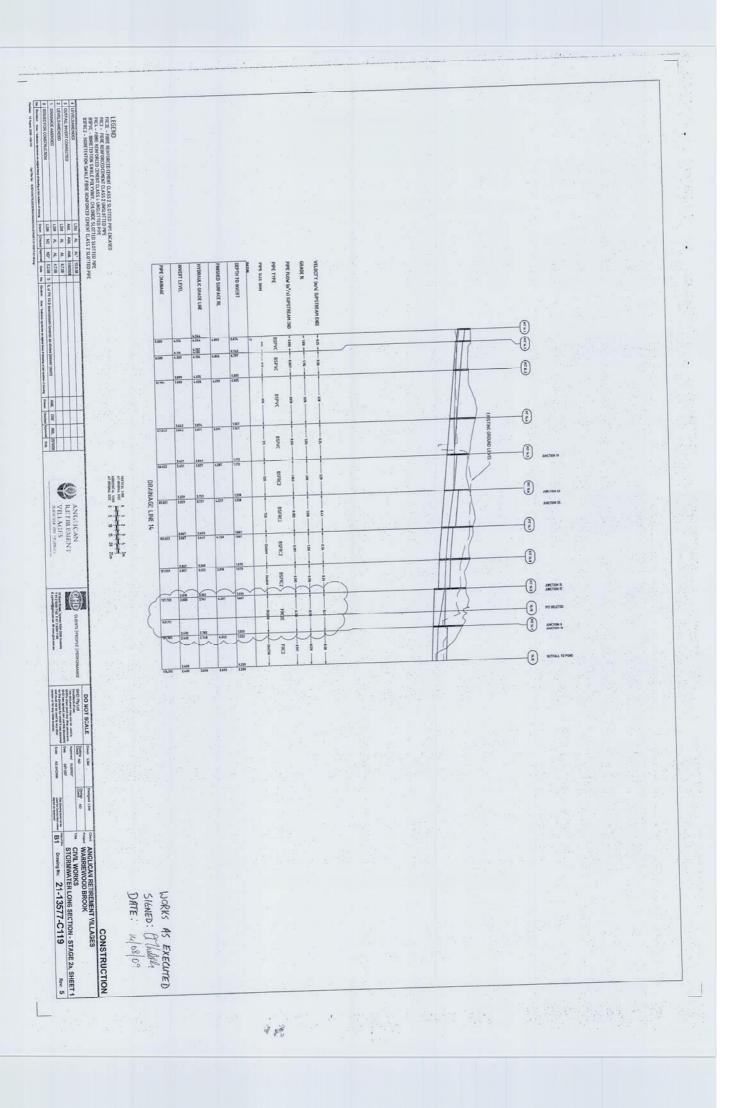


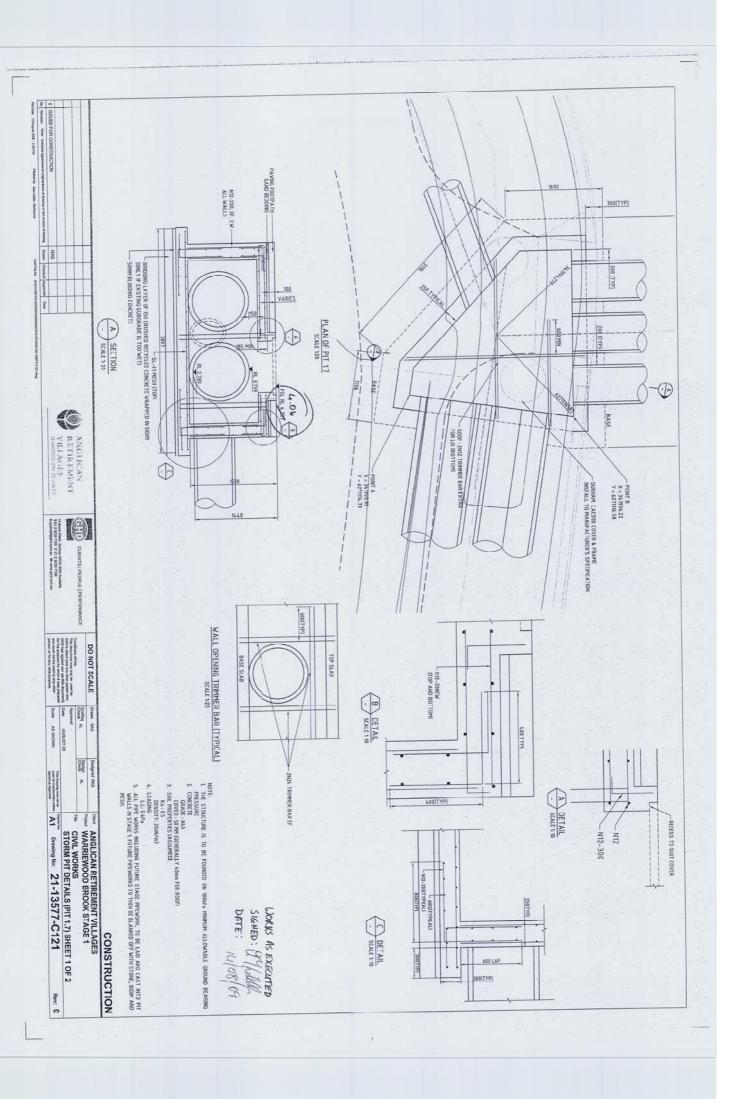


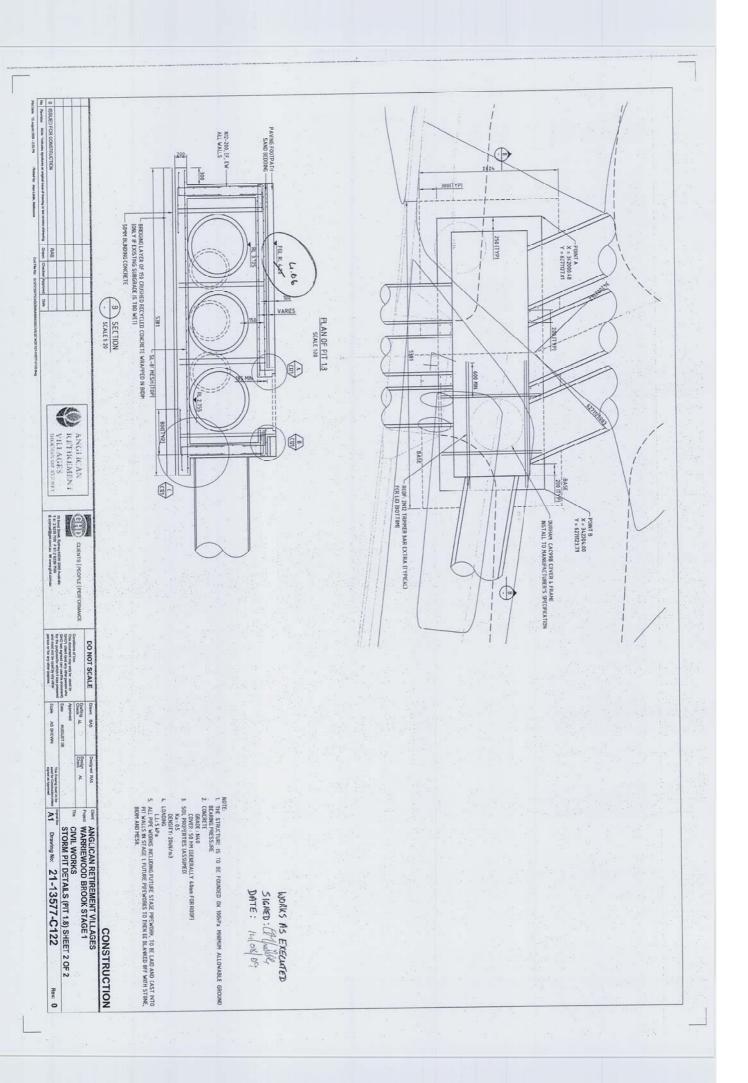


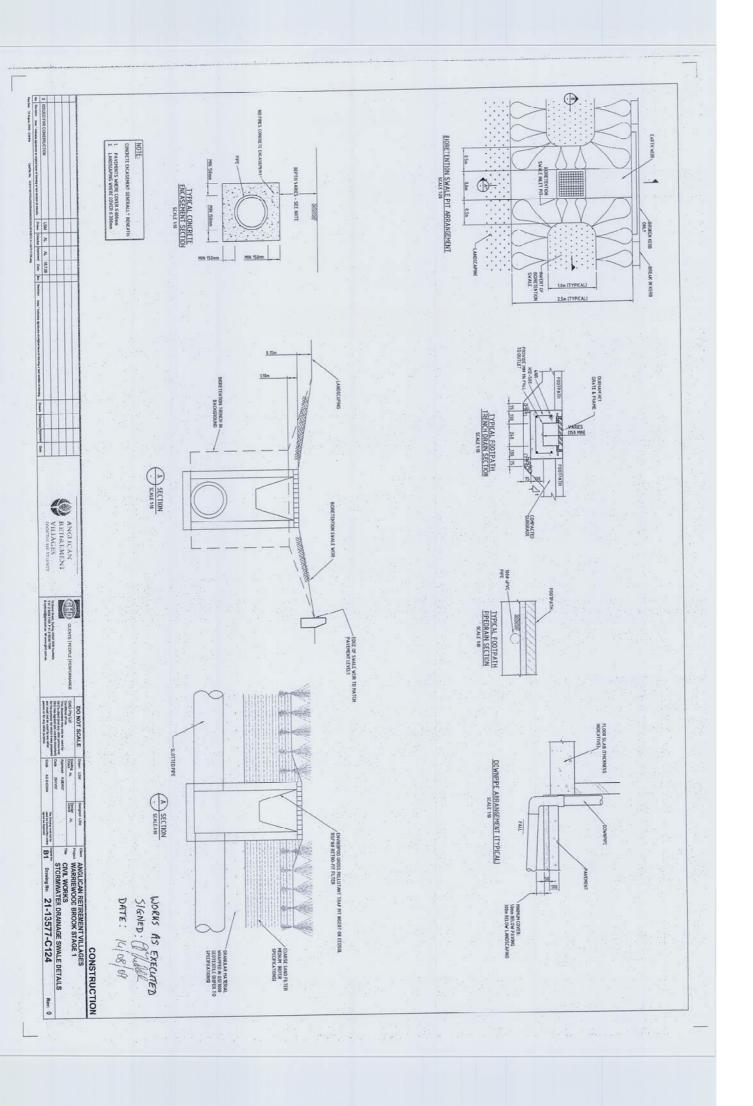




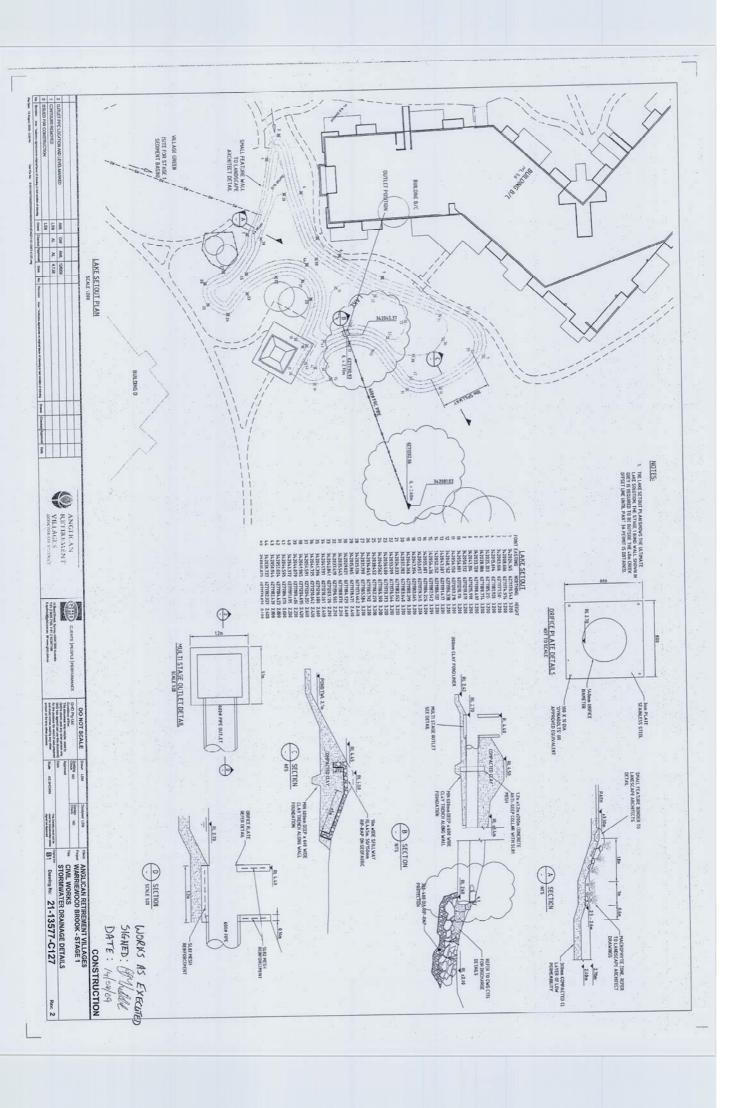


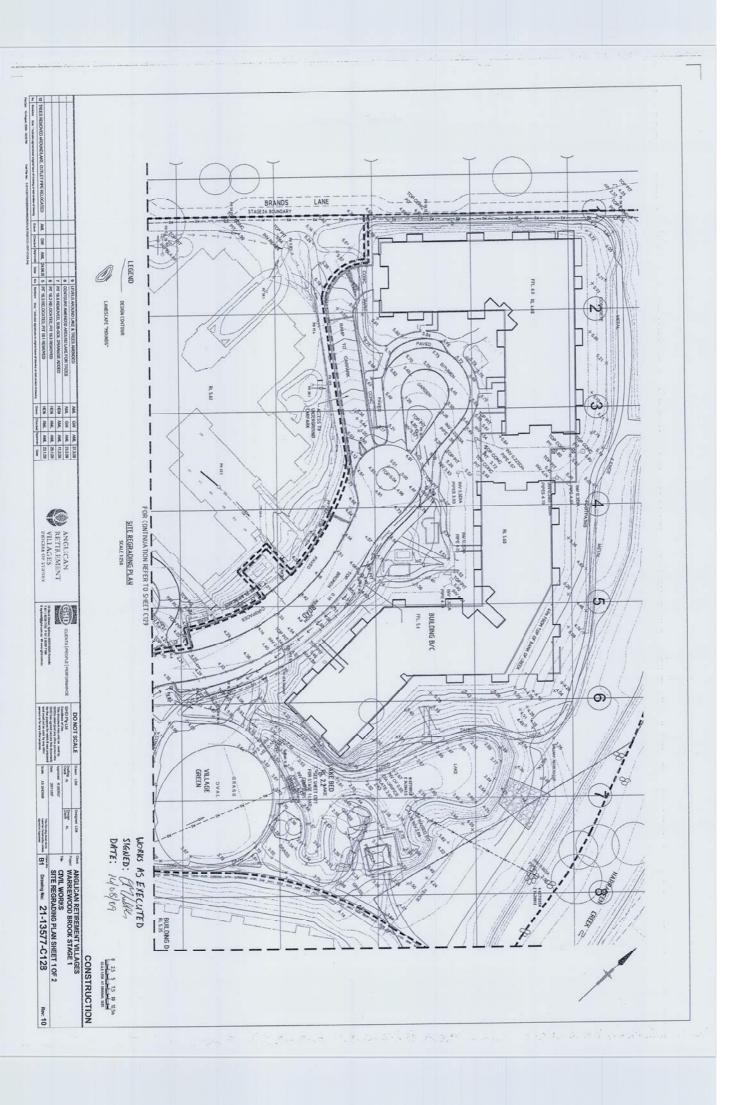


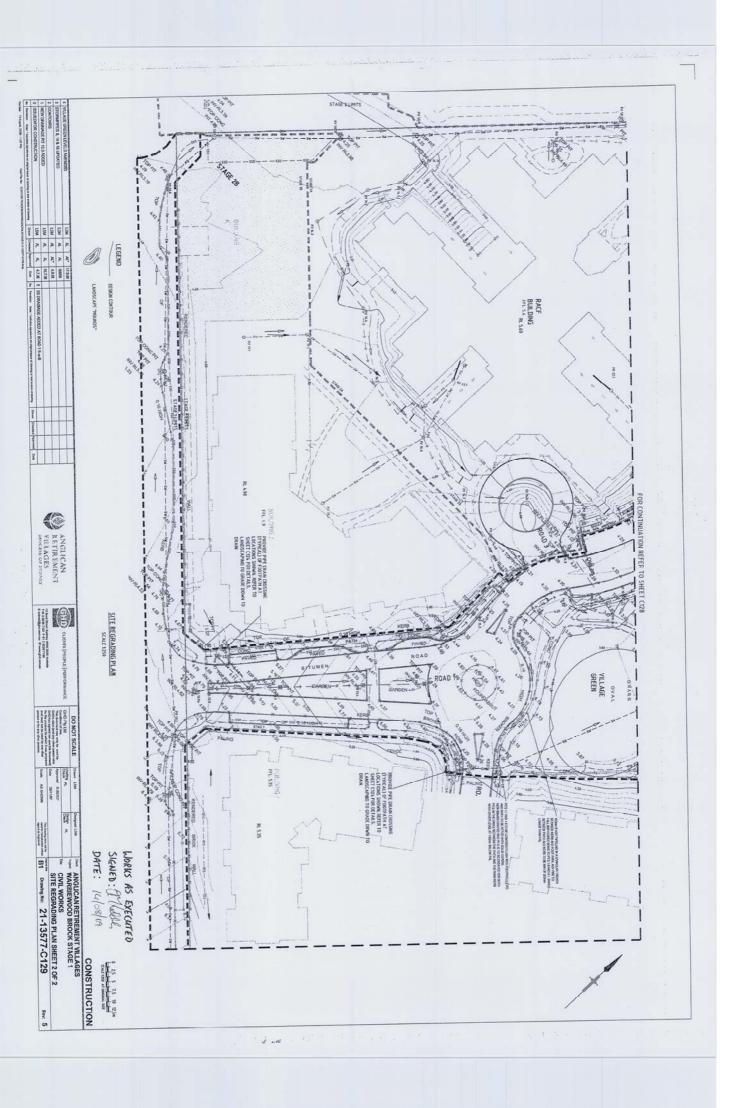


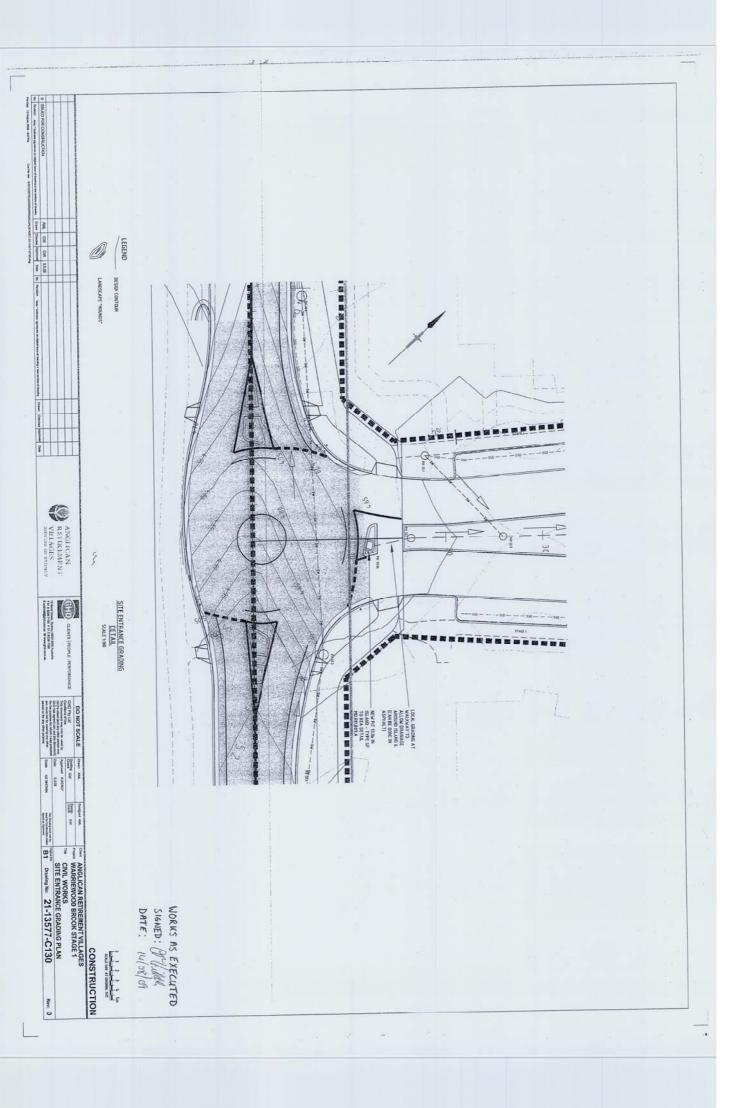


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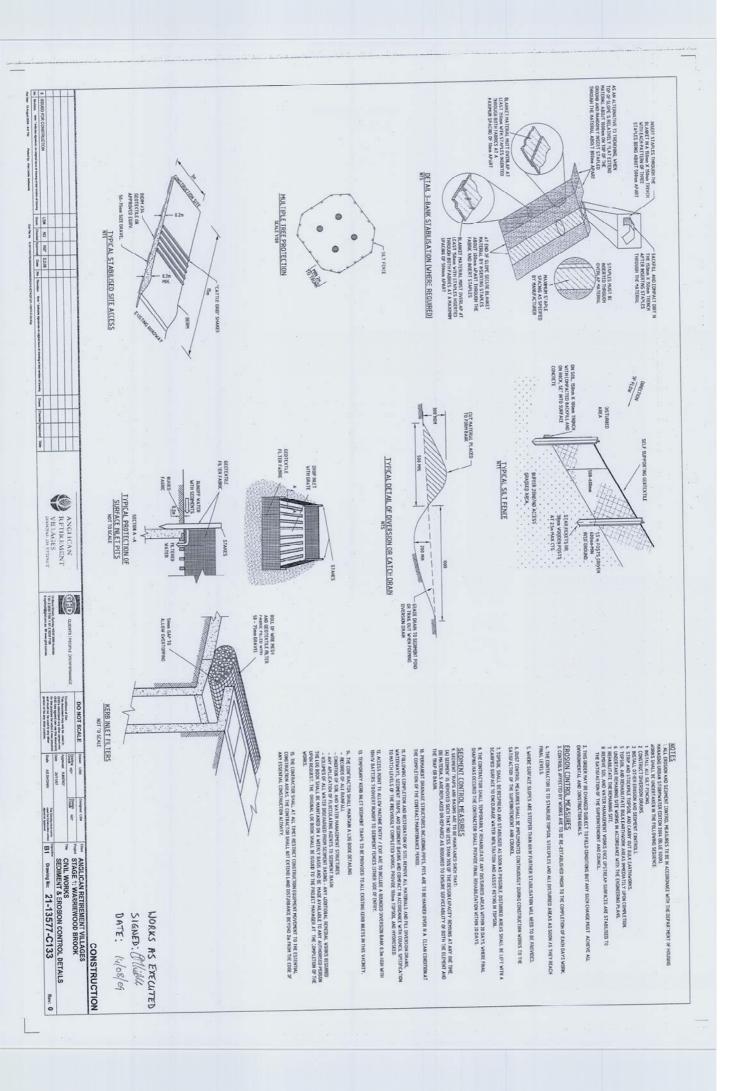


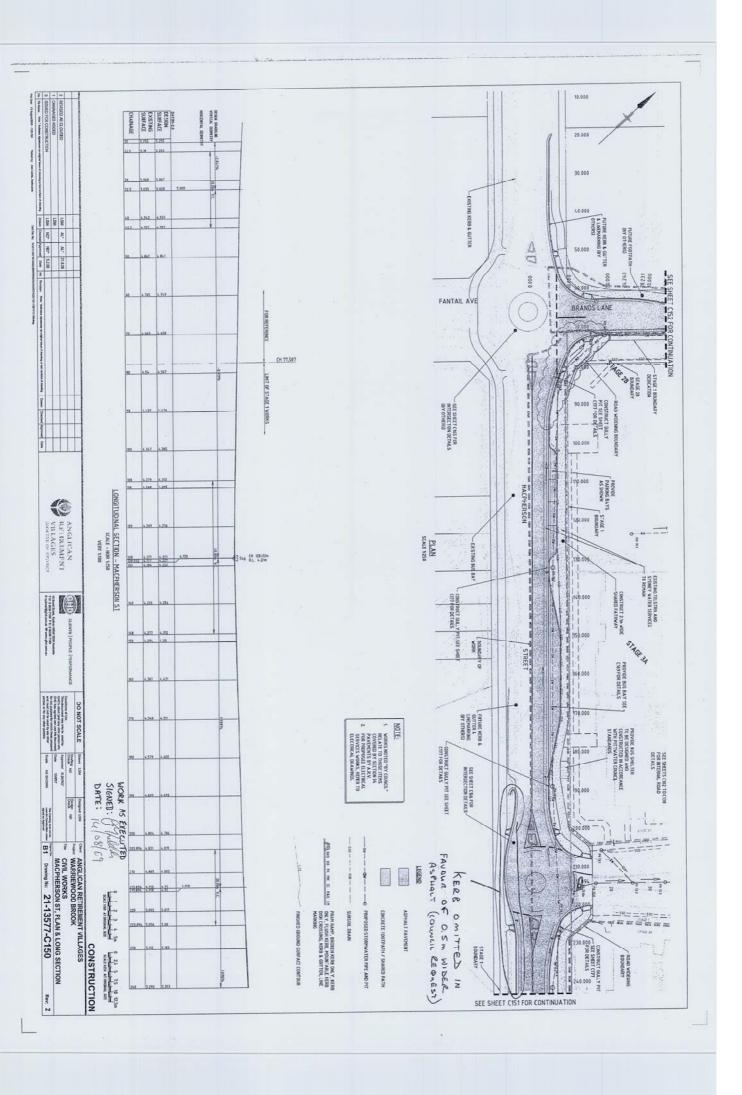


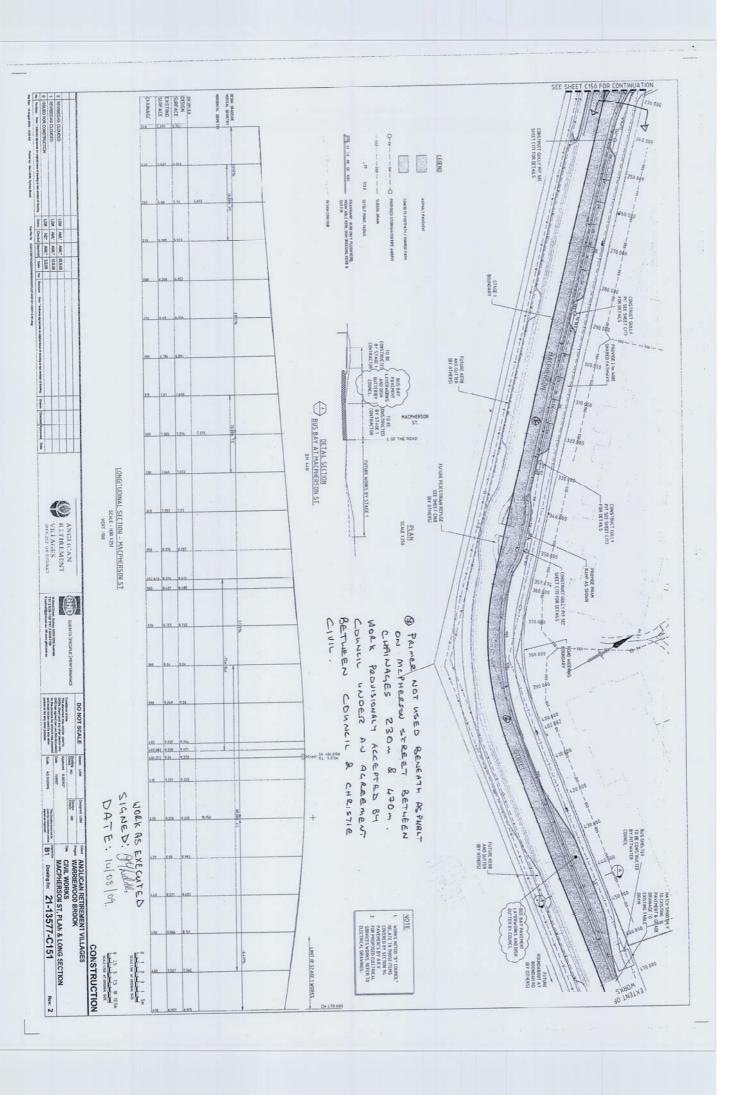


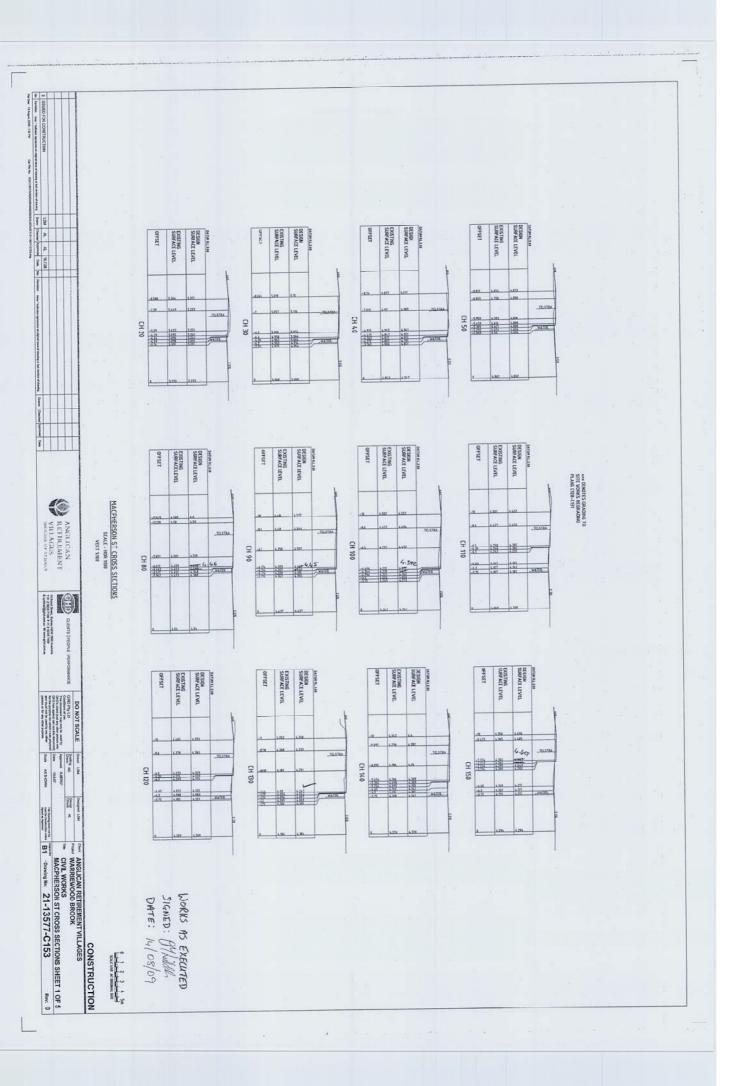


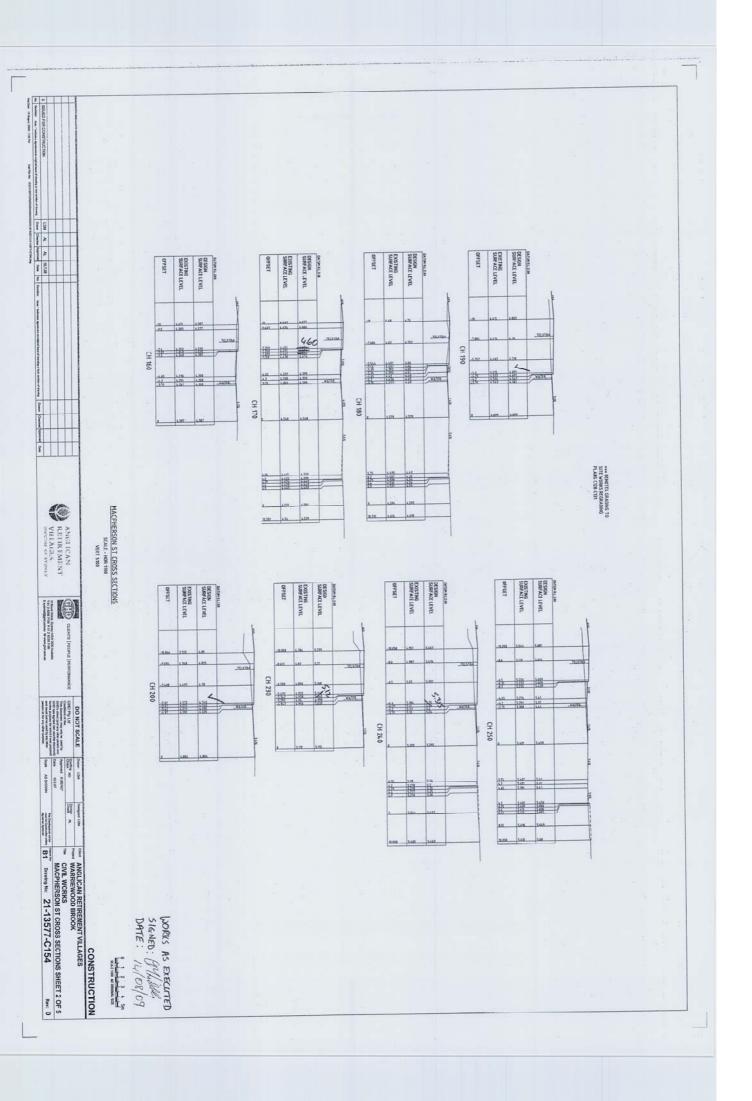


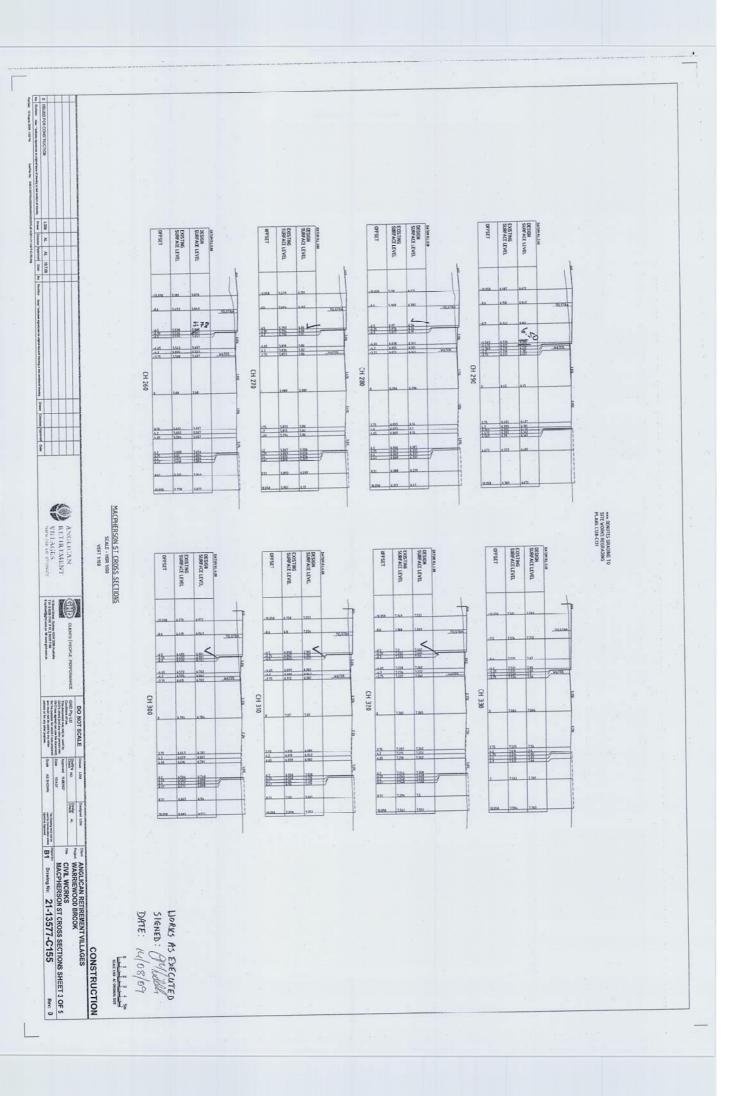


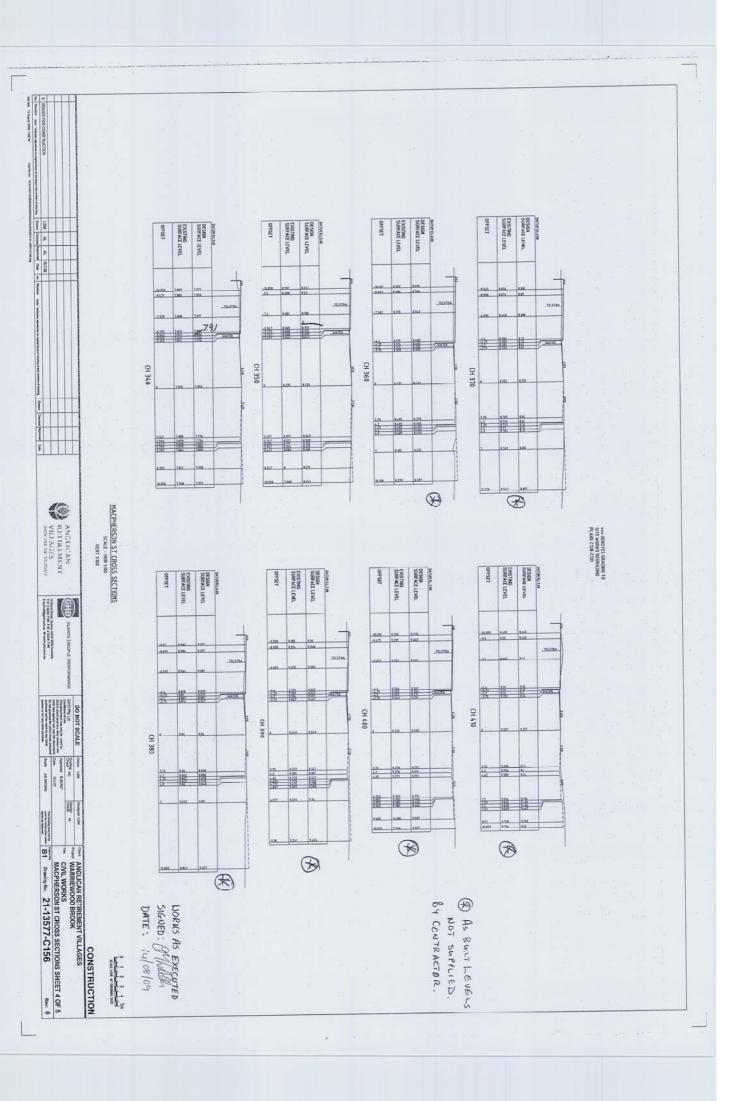


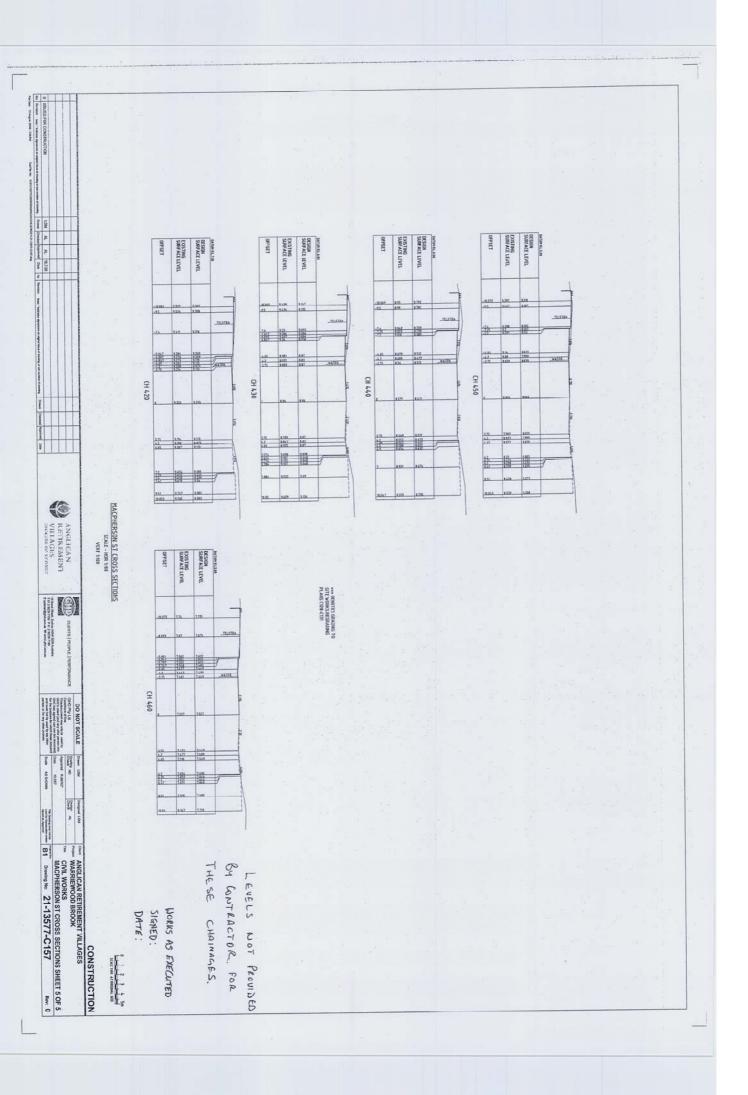


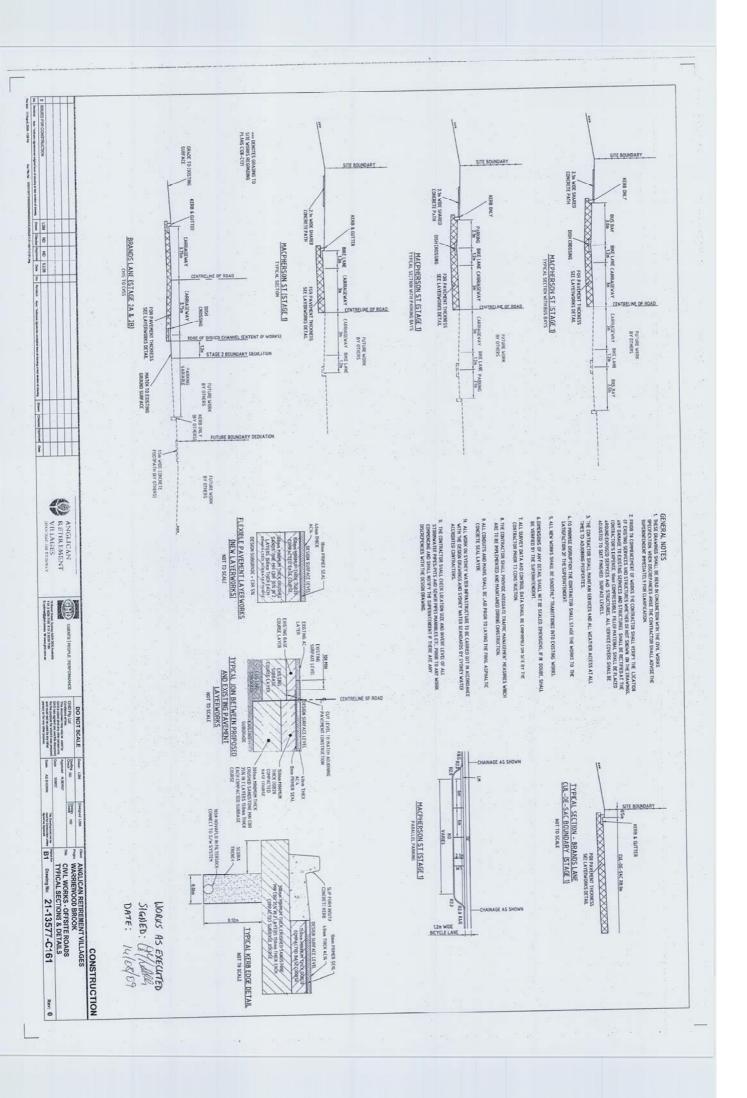


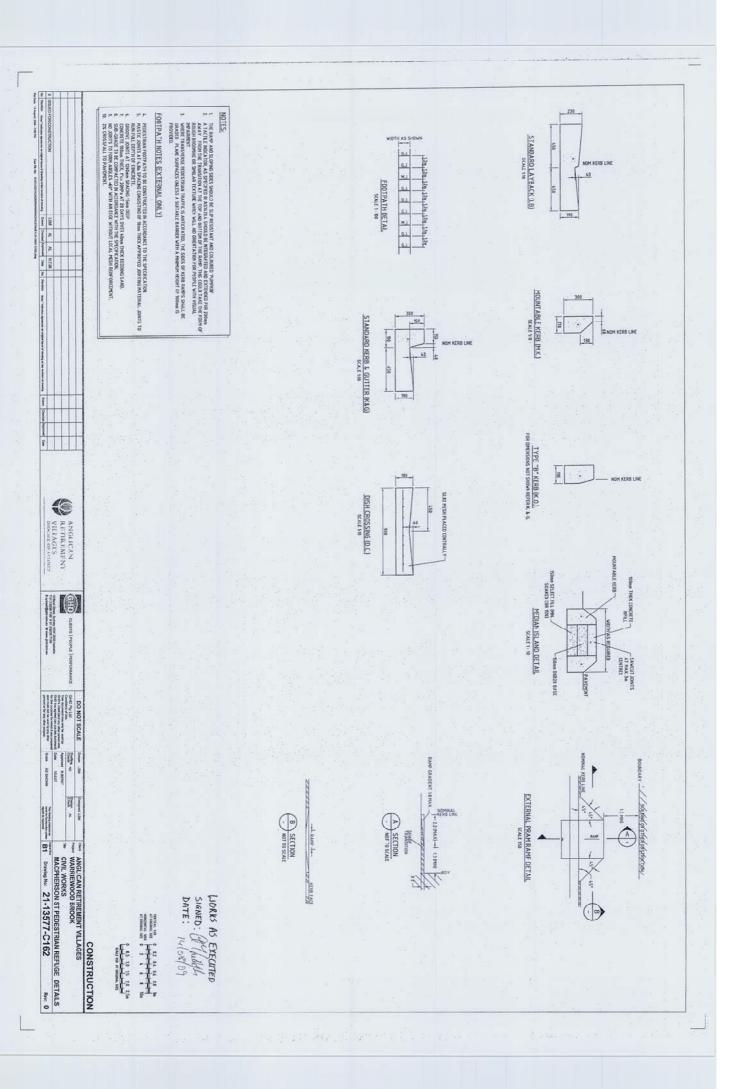


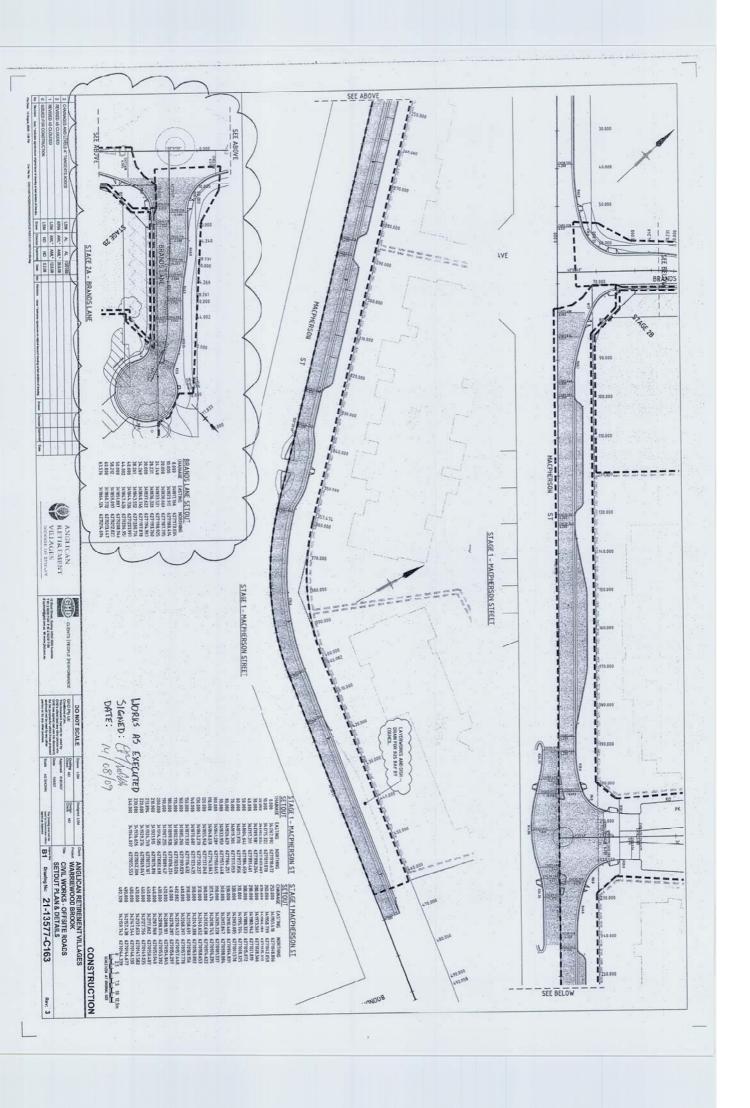


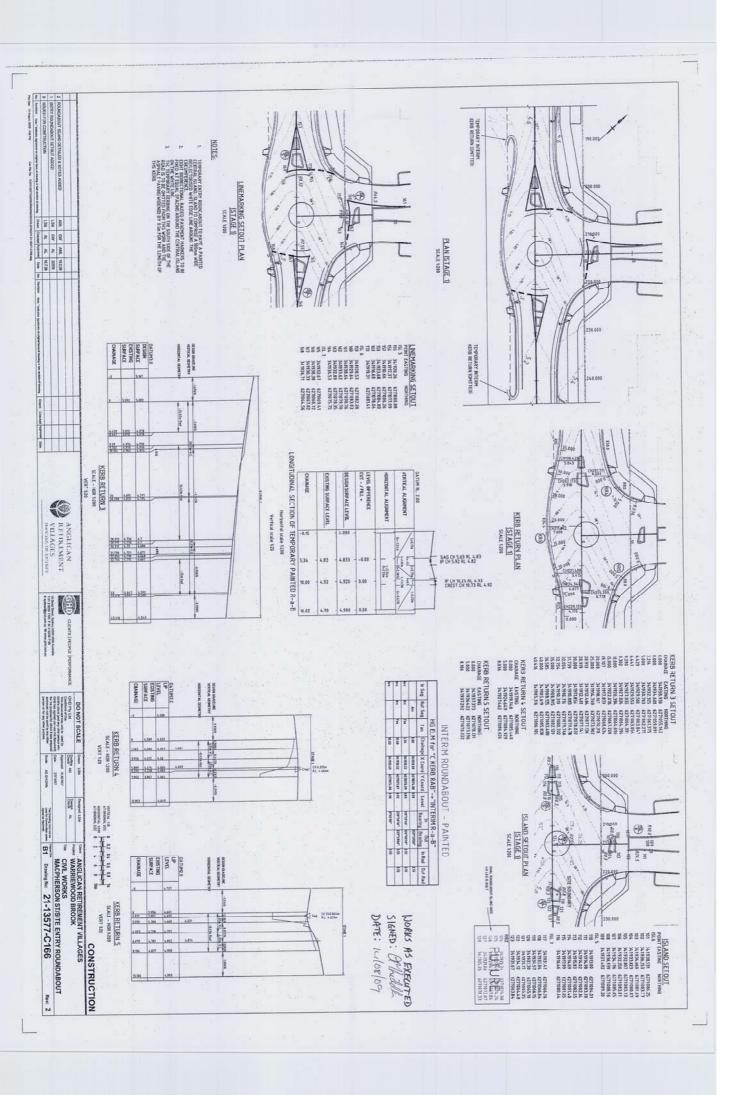


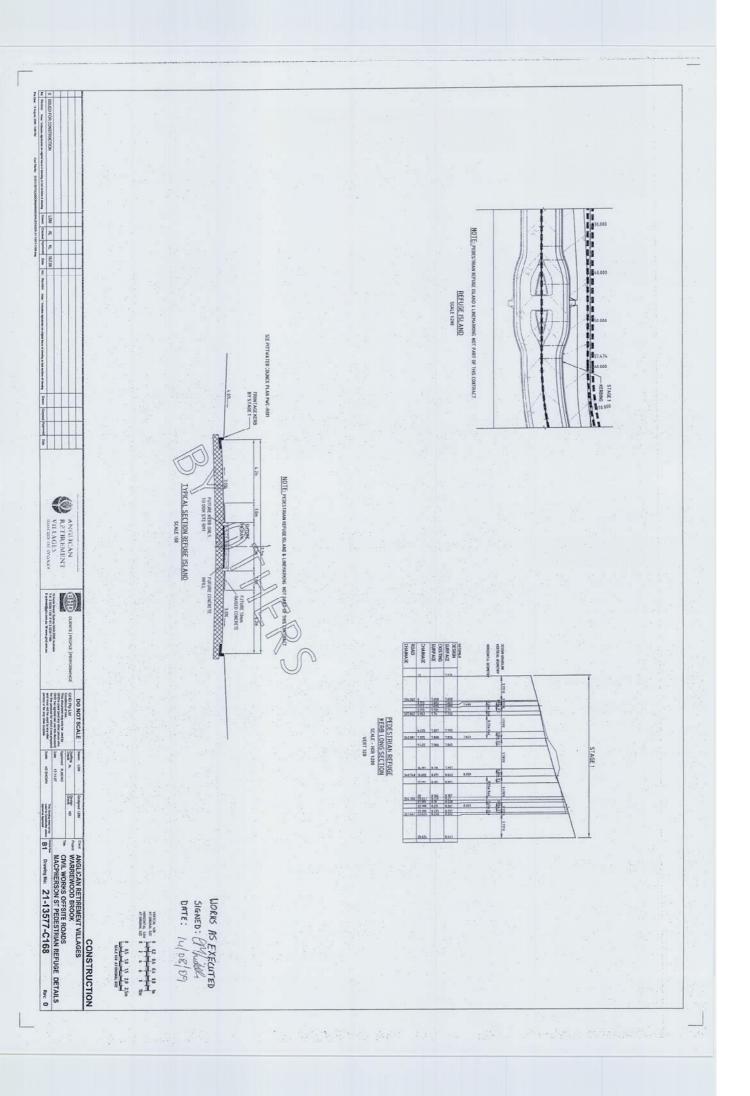


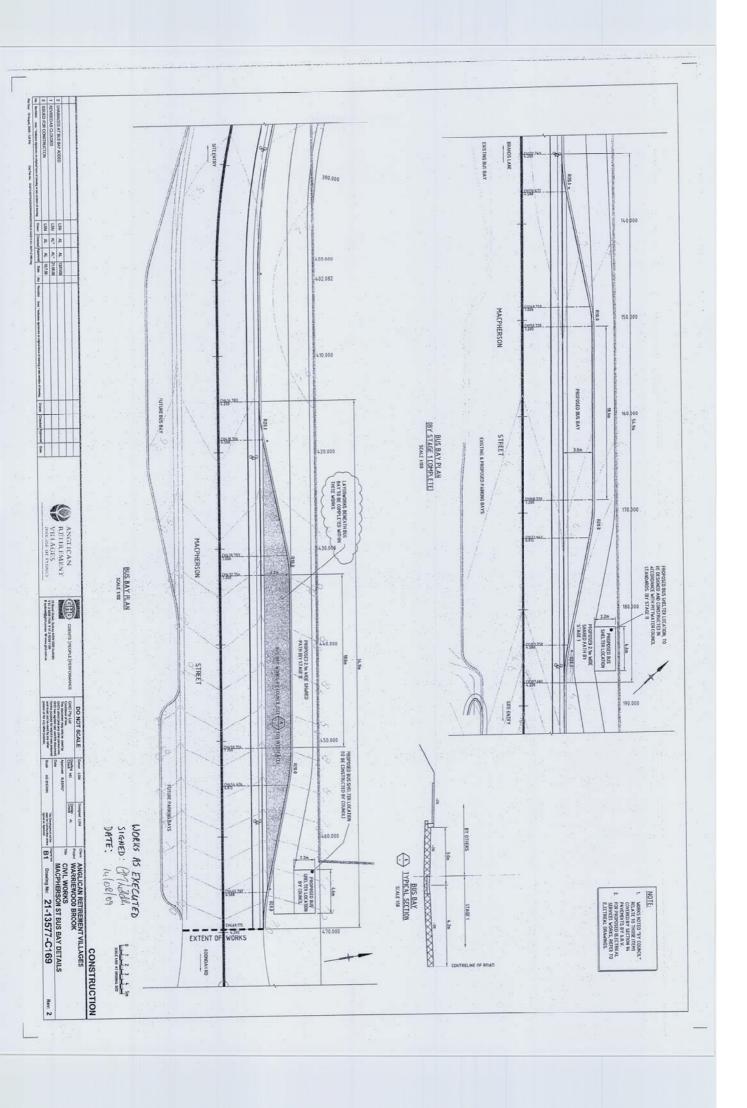


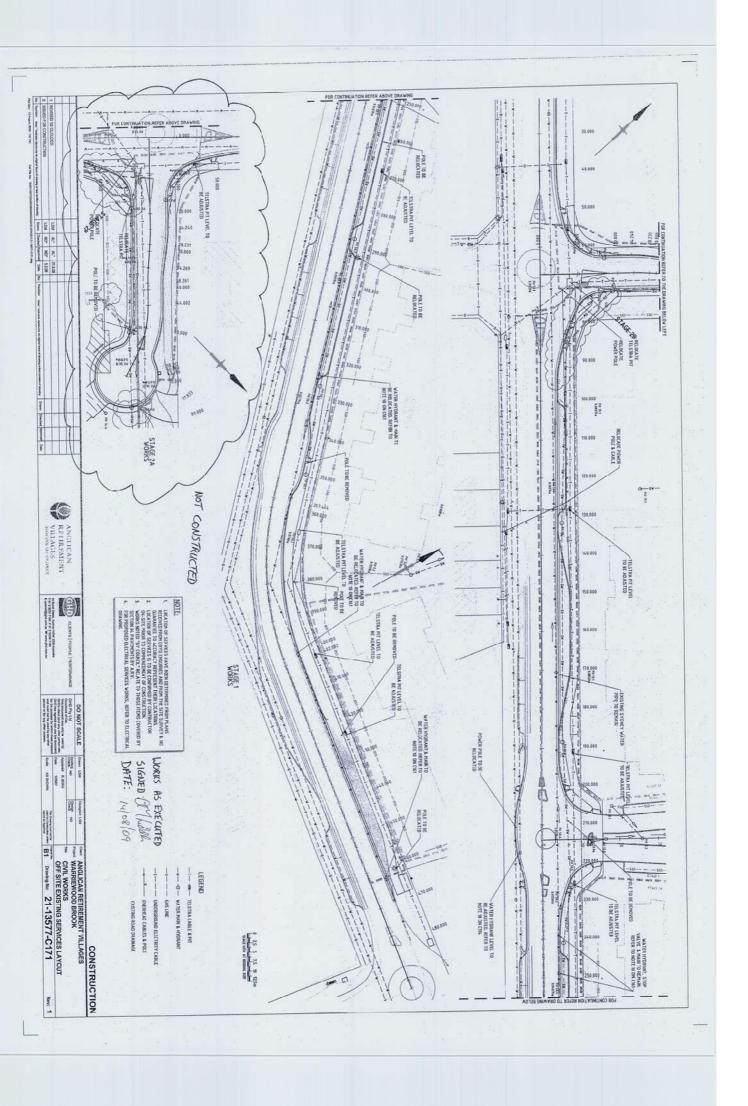


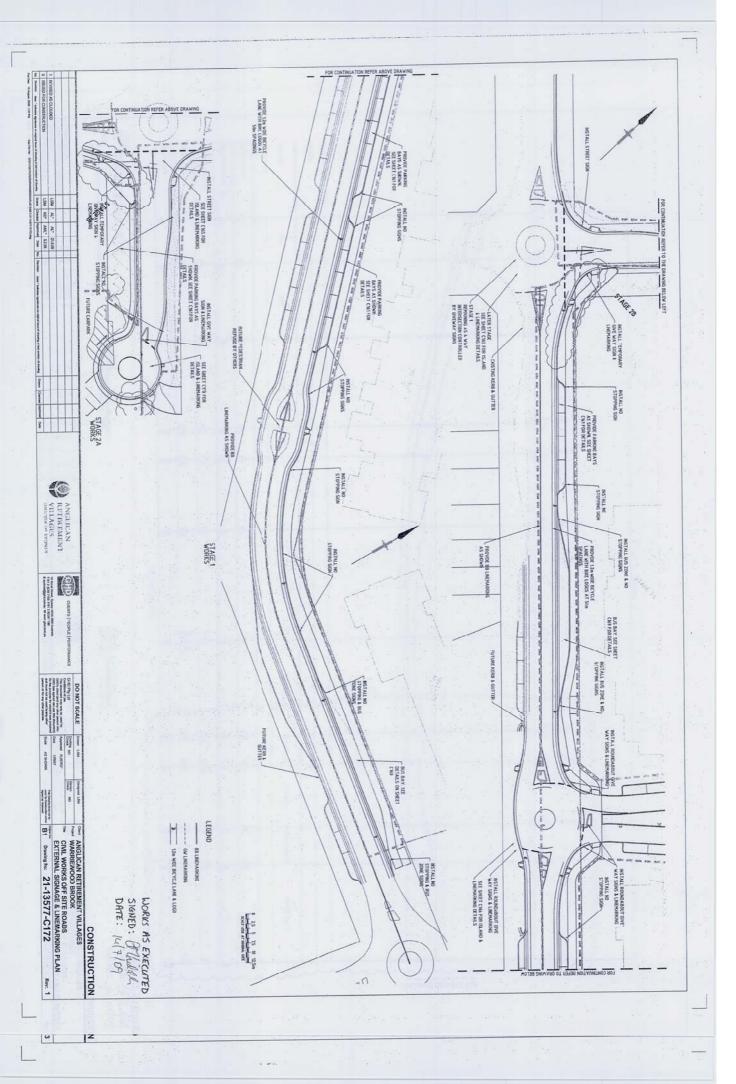


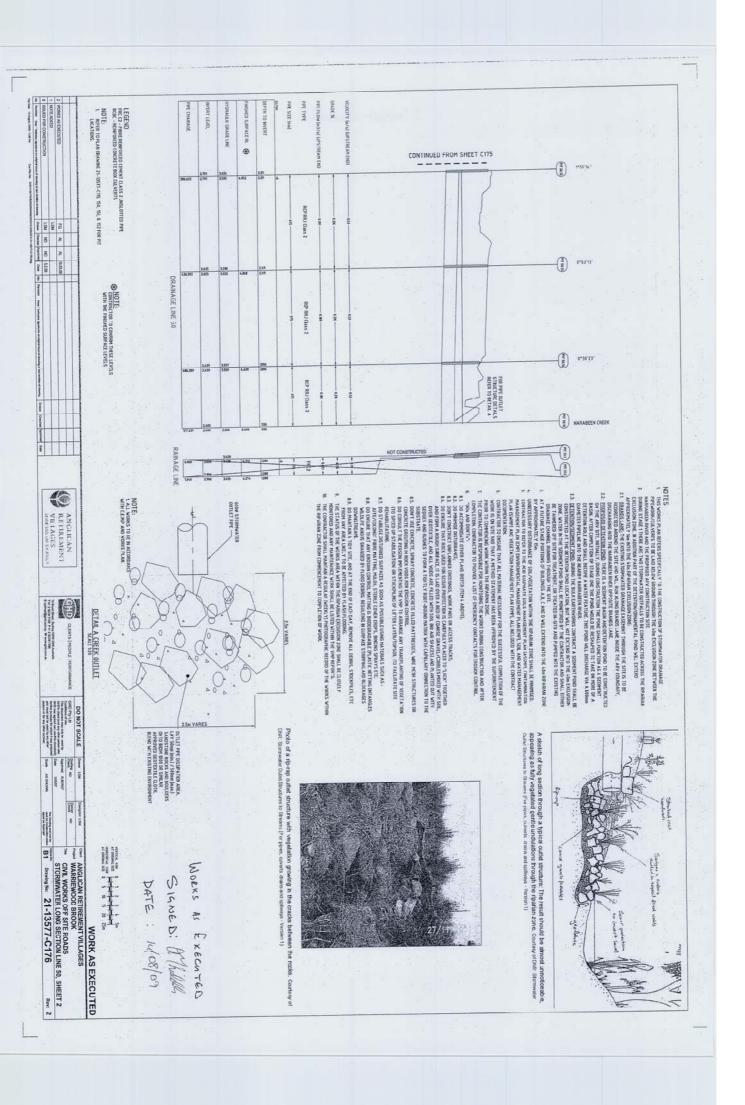


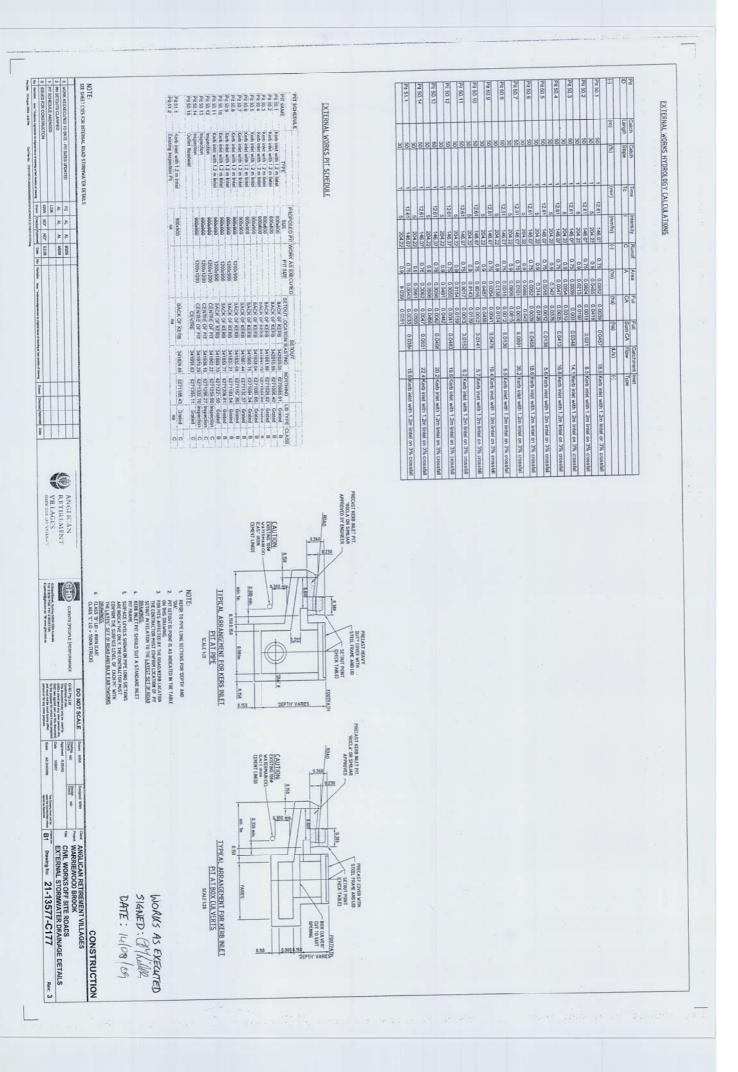


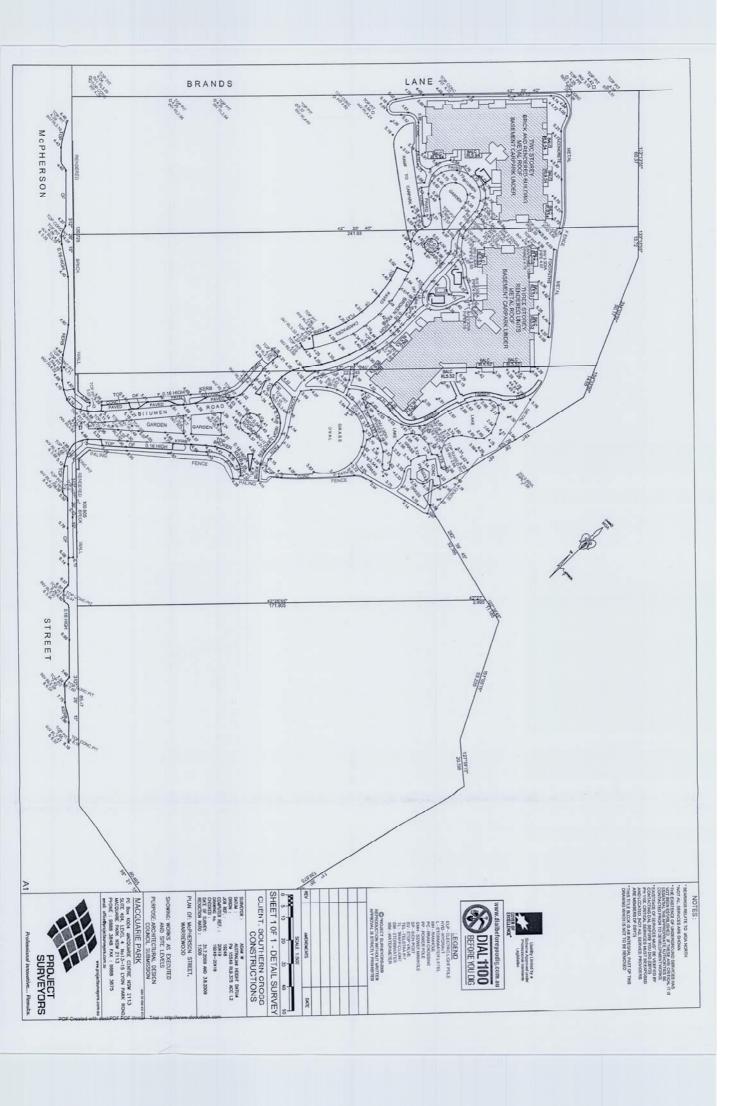


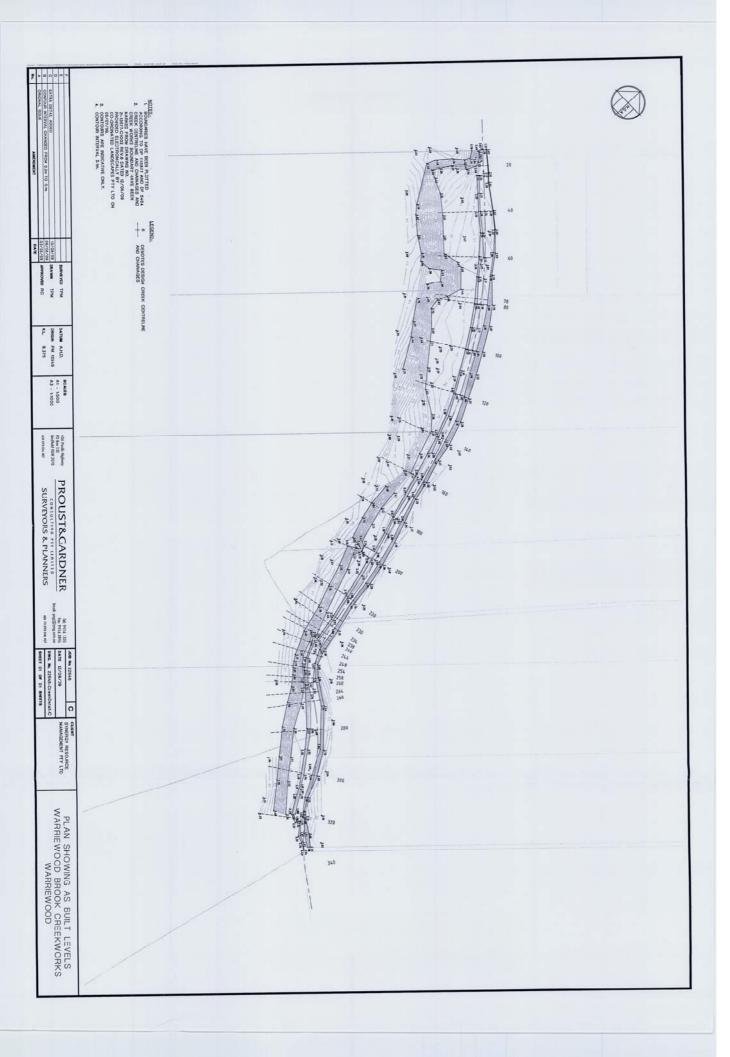














CLIENTS PEOPLE PERFORMANCE

* +'

10 Bond St Sydney 2000 DX Sydney

Telephone 61 2 9239 7100 Facsimile 61 2 9239 7199

Email Address sydmail@ghd.com.au

7 UDQVP LIMEDO

Transmittal No: 21-13577-T058

Date: 14/08/2009

To: Southern Cross Constructions (NSW) Pty Ltd

Attention: Terry Edwards

Address: 135-153 South Head Road , Edgecliffe, NSW, 2027

Copy To: STAGE 1 & 2 CONTRACTORS

From: Alan Liddle

Project: WARRIEWOOD BROOK

Job No: 2113577

WORK AS

EXECUTED,

ISSUE

Reason: Revision

Drawing No	Rev	Drawing Title	Copies
C101	1	CIVIL WORKS - COVER SHEET, TITLE, LOCALITY PLAN	-1
C102	1	CIVIL WORKS - OVERALL SITE PLAN SHOWING STAGING	1
C103	1	CIVIL WORKS - ROAD 1 & 4 DETAIL PLANS	1
C104	1	CIVIL WORKS - ROAD 2 & 3 DETAIL PLANS	1
C106	3	CIVIL WORKS - ROAD LONG SECTIONS	1
C107	0	CIVIL WORKS - ROAD TYP SECTIONS AND DETAILS	1
C108	3	CIVIL WORKS - ROAD 1 CROSS SECTIONS	1
C109	2	CIVIL WORKS - ROAD 2 CROSS SECTIONS - SHEET 1 OF 2	1
C110	1	CIVIL WORKS - ROAD 2 CROSS SECTIONS - SHEET 2 OF 2	1
C112	0	CIVIL WORKS - KERB RETURN DETAILS 1 OF 2	1
C1121	0	KERB RETURN DETAILS - SHEET 3	1 1
C113	1	CIVILWORKS - KERB RETURN DETAILS	1
C114	1	CIVIL WORKS - ROAD DETAILS	1
C115	4	CIVIL WORKS - STORMWATER DRAINAGE PLAN	1
C116	2	CIVIL WORKS - STORMWATER CATCHMENT PLAN	1
C117	5	CIVILWORKS - STORMWATER LONG SECTIONS STAGE 1 - SHEET 1	1
C118	9	CIVILWORKS - STORMWATER LONG SECTIONS STAGE 1 - SHEET 2	1
C119	5	CIVIL WORKS - STORMWATER LONG SECTIONS STAGE 2A - SHEET 1	1
C121	0	CIVIL WORKS - STORMWATER LONG SECTIONS LINES 20-26	1
C122	0	CIVIL WORKS - STORMWATER LONG SECTIONS LINES 27-29	1
C124	0	CIVIL WORKS - STORMWATER DRAINAGE SWALE DETAILS	1
C126	7	CIVIL WORKS - STORMWATER DRAINAGE PIT SCHEDULE	1
C127	2	CIVIL WORKS - STORMWATER DRAINAGE DETAILS	1
C128	10	CIVIL WORKS - SITE REGRADING PLAN SHEET 1 OF 2	1
C129	5	CIVIL WORKS - SITE REGRADING PLAN SHEET 2 OF 2	1
C130	0	CIVIL WORKS - SITE REGRADING PLAN SHEET 3 OF 4	1
C132	4	CIVIL WORKS - SEDIMENT AND EROSION CONTROL PLAN	1
C133	0	CIVIL WORKS - SEDIMENT AND EROSION CONTROL DETAILS	1
C150	2	CIVIL WORKS - MACPHERSON ST, PLAN & LONG SECTION	1
C151	2	CIVIL WORKS - MACPHERSON ST, PLAN AND LONG SECTION	1
C153	0	CIVIL WORKS - MACPHERSON ST CROSS SECTIONS SHEET 1 OF 5	1
C154	0	CIVIL WORKS - MACPHERSON ST CROSS SECTIONS SHEET 2 OF 5	1
C155	0	CIVIL WORKS - MACPHERSON ST CROSS SECTIONS SHEET 3 OF 5	1
C156	0	CIVIL WORKS - MACPHERSON ST CROSS SECTIONS SHEET 4 OF 5	1
C157	0	CIVIL WORKS - MACPHERSON ST CROSS SECTIONS SHEET 5 OF 5	1
C161	0	CIVIL WORKS OFFSITE ROADS - TYPICAL SECTIONS AND DETAILS	1
C162	0	CIVIL WORKS - MACPHERSON ST PEDESTRIAN REFUGE DETAILS	1

Page 1 of 2

Drawing No	Rev	Drawing Title	Copies
C163	3	CIVIL WORKS OFFSITE ROADS - SETOUT PLAN AND DETAILS	1
C166	2	CIVIL WORKS - MACPHERSON ST / SITE ENTRY ROUNDABOUT	1
C168	0	CIVIL WORKS OFFSITE ROADS - MAC PHERSON ST PEDESTRIAN REFUGE DETAILS	1
C169	2	CIVIL WORKS - MACPHERSON ST BUS BAY DETAILS	1
C171	1	CIVIL WORKS OFFSITE - SERVICES LAYOUT	1
C172	1	CIVIL WORKS OFFSITE ROADS - EXTERNAL SIGNAGE AND LINEMARKING PLAN	1
C175	3	CIVIL WORKS OFFSITE ROADS - STORMWATER LONG SECTION LINE 50 SHEET 1	1
C176	2	CIVIL WORKS OFFSITE ROADS - STORMWATER LONG SECTION LINE 50 SHEET 2	1
C177	3	CIVIL WORKS OFFSITE ROADS - EXTERNAL STORMWATER DRAINAGE DETAILS	1

Remarks:	Stage 1 V	Vork As	Executed Drawin	gs (WAEX)	(A1) na
Sent by:	Email			Per:	
					007000
C111		0	ROAD 1 CROSS	SECTIONS SHEET	I 2 OF 3 (Assisting Surveyor)
C111E		0	ROAD 1 CROSS	SECTIONS SHEE	T 3 OF 3 (Assisting Surveyor)



Certificate of Compliance

NRP ARCHITECTURE ABN 21 083 698 882

Level 8/15 Help Street Chatswood NSW 2067 PO Box 5036 West Chatswood NSW 1515

T 61 (0)2 8966 6001 F 61 (0)2 8966 6126 E mail@nrparchitecture.com.au

Development:

Stage 1: 64 Independent Living Units at

6-14 Macpherson Street Warriewood

Owners:

Anglican Retirement Villages

Owners Address:

62 Norwest Bvd, Baulkham Hills, NSW

Design verification

We certify that the residential flat development achieves the design quality of the development as shown in the plans and specifications in respect of which the construction certificate was issued, having regard to the design quality principles set out in Part 2 of State Environmental Planning Policy No 65-Design Quality of Residential Flat Development.

I Morris Rosenberg of NRP Architecture, certify that to the best of my knowledge and belief, the information contained in this certificate is true and accurate.

Signed by

Rosenberg Architects Pty Limited ABN 21-083-698-882 trading as NRP ARCHITECTURE Director / Nominated Architect Morris Rosenberg (Reg No 3308) B Arch (Hons) FRAIA



14th August 2009

Terry Edwards Southern Cross Constructions 135-153 New South Head Road Edgecliff NSW 2027

Dear Terry,

RE: WARRIEWOOD BUILDINGS STAGE 1 - ACCESSIBILITY OCCUPATION CERTIFICATION

I hereby certify that the construction of Warriewood Brook Stage 1 is in accordance with normal disability access practice and meets the requirements of the Building Code of Australia, and relevant Australian Standards.

In particular the construction/design is in accordance with the following:

Access into and within the building

BCA2008 Part D3 and AS1428.1

Carparking

BCA2008 Clause D3.5 and AS2890.1

Braille and tactile signage

BCA2008 Clause D3.6, Specification D3.6 and AS1428.1

Tactile ground indicators

BCA2008 Clause D3.8 and AS1428.4

Sanitary facilities

BCA2008 Clause F2.4 and AS1428.1

Facilities within lifts

BCA2008 Clause E3.6 and AS1735.12

DA Condition C16

DA Condition E15

I am an experienced, qualified and competent person in this area and as such can certify that the building systems and layout comply with the above.

Full Name:

David Goding

Company

Morris-Goding Accessibility Consulting

Address

Qualifications: Bachelor of Civil Engineering, ACAA Unit 6, Grd Floor, 56 Bowman Street Pyrmont NSW 2009

Phone No.

02 9692 9322

Fax. 02 9692 8433

Morris Goding Accessibility Consulting



Yours faithfully,

David Goding Morris-Goding Accessibility Consulting



ABM61346837871 Telephone 02 9970 1111 Facsimile 02 9970 7150 Postal Address PO Box 882 Mona Vale NSW 1660 DX 9018, Mona Vale

Ross McWhirter, Project Leader - Warriewood Infrastructure 8am to 5pm Mon - Fri Phone 9970 1207 Mobile 0419 629 007

14 August 2009

Southern Cross Constructions (NSW) Pty Ltd 135-153 New South Head Road **EDGECLIFF NSW 2027**

Attention: - Terry Edwards

Dear Sir,

Re: 6-14 MacPherson Street, Warriewood - Consent No. N0102/05 (Stage 1)

Council wishes to advise with regard to the Occupation Certificate for Stage 1 of the Seniors Living development at the abovementioned property.

The following security deposits have been lodged with Council: -

- Bank guarantee for road maintenance in the amount of \$17,500 (in accordance with condition E24 of Consent No. N0102/05).
- Bank guarantee for maintenance of water quality control devices in the amount of \$10,000 (in accordance with condition E31 of Consent No. N0102/05).
- Bank guarantee for maintenance of civil works in Narrabeen Creek in the amount of \$37,500 (in accordance with condition E24 of Consent No. N0102/05).
- Bank guarantee for restoration of primer seal and asphalt pavement to Stage 1 pavement in MacPherson Street in the amount of \$35,000.

Conditions E5, E6 and E27 of Consent No. N0102/05 have been satisfied as all restorations relating to Stage 1 have been completed satisfactorily.

This advice relates solely to the Stage 1 Occupation Certificate.

Yours faithfully

R. McWhiter

PROJECT LEADER - WARRIEWOOD INFRASTRUCTURE

PLANS

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work

In regards to DA No: N0102/05 for the Warriewood Stage 1 (ARV) project;

Specifically Part 2 Section E Clause 4.

"Plans together with street levels provided by Council and a certificate submitted by a Chartered Professional Engineer confirming to the satisfaction of the Principal Certifying Authority that the works in the public road reserve comply with Council requirements and street levels are to be provided with the Occupation Certificate application."

I hereby certify that the works have been constructed in accordance with the above Development Consent condition.

Namė:	Grahame Sproats			
Company:	GHD Pty Ltd.			
Address:	10 Bond Street, Sydney			
Phone No	(02) 9239 7100	_ Fax No	(02) 9239 7199	*

Signature

Date

14/08/09

Attachments:

WAR DRAWINGS.

INFRASTRUCTURE

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work

In regards to DA No: N0102/05 for the Warriewood Stage 1 (ARV) project;

Specifically Part 2 Section E Clause 20.

"All appropriate infrastructure is to be provided to service the proposed residential lots, including roads and accessways, drainage facilities, landscaping, water management facilities, and siltation and sediment control measures."

I hereby certify that the works have been constructed in accordance with the above Development Consent condition.

Name:	Alan Liddle			
Company:	GHD Pty Ltd.			
Address:	10 Bond Street, Sydney NS	•		
Phone No	(02) 9239 7100	Fax No.	(02) 9239 7199	

| 14/08/0 | | 14/08/0 | | Date |

Attachments: WAE DRAWINGS

CIVIL WORKS

Project Name	Warriewood - Stage 1		
Address	6-14 Macpherson Street Warriewood NSW 2101		
Part of Building to be certified	All new work		

In regards to DA No: N0102/05 for the Warriewood Stage 1 (ARV) project;

Specifically Part 2 Section E Clause 23.

"All roads, drainage and civil engineering works required under Conditions C21, C22 and C23 of this consent are to be completed prior to the issue of the Occupation Certificate."

I hereby certify that the works have been constructed in accordance with the above Development Consent condition.

 Name:
 Alan Liddle

 Company:
 GHD Pty Ltd.

 Address:
 10 Bond Street, Sydney NSW 2000

 Phone No.
 (02) 9239 7100
 Fax No.
 (02) 9239 7199

Signature

14/08/09

Date

Attachments:

NAE DRAWINGS

CIVIL WORKS

Warriewood - Stage 1		
6-14 Macpherson Street Warriewood NSW 2101		
All new work		

In regards to DA No: N0102/05 for the Warriewood Stage 1 (ARV) project;

Specifically Part 2 Section E Clause 22.

"Certification is to be provided to Council, by an experienced civil engineer who is NPER accredited by the Institution of Engineers Australia, that all roads, drainage and other civil engineering works relating to MacPherson Street, Brande Lane and the development site have been carried out and completed in accordance with the engineering plans an specifications required under conditions C21, C22 and C23 of this consent."

I hereby certify that the works have been constructed in accordance with the above Development Consent condition.

Name:	Grahame Sproats			4	
Company:	GHD Pty Ltd.				
Address:	10 Bond Street, Sydney	NSW 2000			
Phone No	(02) 9239 7100	Fax No	. (02) 9239 7	199

Signature

Date

Attachments:

WAE DRAWINGS.

DRIVEWAYS

Project Name	Warriewood – Stage 1
Address	6-14 Macpherson Street Warriewood NSW 2101
Part of Building to be certified	All new work

In regards to DA No: N0102/05 for the Warriewood Stage 1 (ARV) project;

Specifically Part 2 Section E Clause 26.

"A certificate by a qualified Engineer or Architect confirming that all driveways have been constructed in accordance with the approval plans is to be submitted to the Council and the accredited certifier (if any) prior to the issue of Occupation certificate."

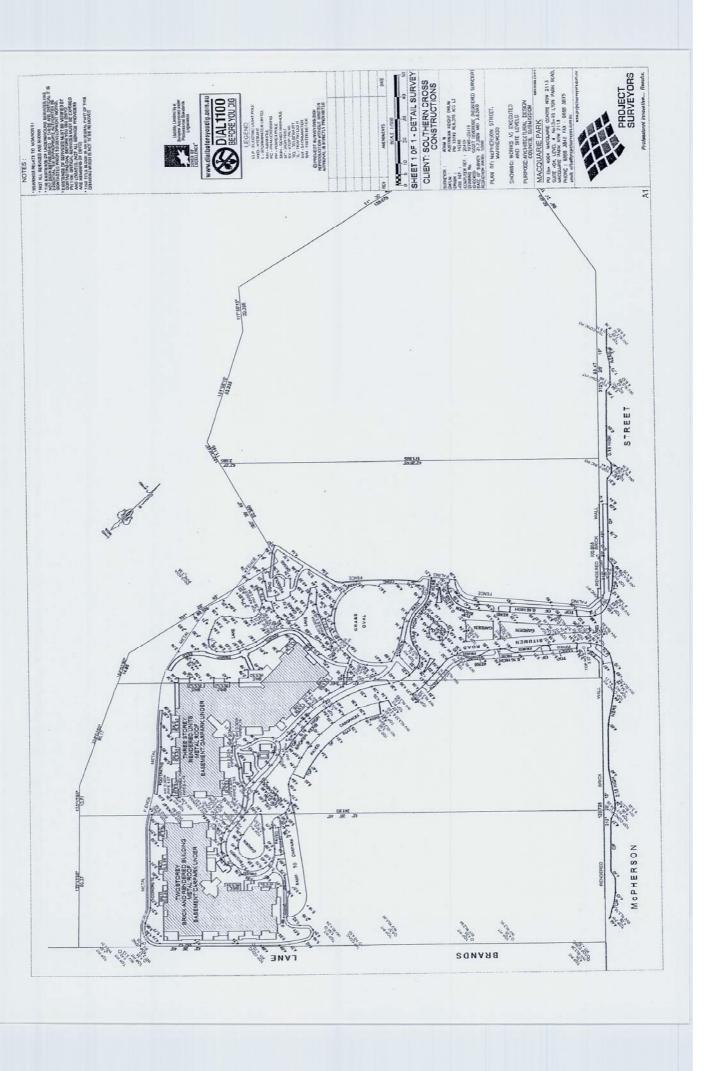
I hereby certify that the works have been constructed in accordance with the above Development Consent condition.

Name:	Alan Liddle				
Company:	GHD Pty Ltd.	•			
Address:	10 Bond Street, Sydney	y NSW 2000	<u>.</u>		
Phone No.	(02) 9239 7100	Fax No	(02)	9239 7199	

Date

Attachments:

WAE DRAWINGS.







PO Box 284 CASTLE HILL NSW 1765 Phone: 61 2 9421 5333 Fax: 61 2 9421 5222 www.arv.org.au ABN 39 922 848 563

memo

7th August 2009

Mr Ross McWhirter Project Leader Pittwater Council PO Box 882 Mona Vale NSW 1660

Dear Ross,

Development Application No. N0102/05 6-14 Macpherson Street, Warriewood

Further to your requests please find attached the following Bank Guarantees to act as Security Deposists for Stage 1 of Warriewood Brook for Anglican Retirement Villages.

Bank Guarantee No 1

Favouree: Pittwater Council

Description: Road Works Maintenance Bond

Amount: \$17,500

Bank Guarantee No 2

Favouree: Pittwater Council

Description: Water Quality Control Devices

Amount: \$10,000

Bank Guarantee No 3

Favouree: Pittwater Council

Description: Narrabeen Creek Civil Works

Amount: \$37,500

If you have any questions, please do not hesitate to contact me.

Regards,

Anglican Retirement Villages

Michael Viskovich **Project Manager**



Premium Business Group 9 George Street PARRAMATTA NSW 2150 Telephone: 02 8835 4208 Facsimile: 02 9635 7320

BANKER'S UNDERTAKING

To: Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the "Favouree")

At the request of: Anglican Retirement Villages (the "Customer")

and in consideration of the Favouree accepting this Undertaking for the Road Works Maintenance Bond over Property DA 102/05, 6-14 MacPherson Street, Warriewood NSW, WESTPAC BANKING CORPORATION (the "Bank") unconditionally undertakes to pay on demand any amount or amounts which may from time to time be demanded in writing purporting to be signed by or on behalf of the Favouree, up to a maximum aggregate sum of \$17,500.00 (the "Amount").

Payment of the Amount or any part thereof will be made by the Bank to the Favouree without reference to the Customer and regardless of any notice from the Customer to the Bank not to pay any amount.

The Bank's obligations under this Undertaking cease on the earliest of the following:

- written notification is received by the Bank from the Favouree that the Undertaking is no longer required
- the Undertaking is returned to the Bank
- all payments by the Bank to the Favouree under the Undertaking total the Amount
- the Favouree notifies the Bank that the payments made by the Bank constitute the total amount required to be paid

Notwithstanding any other obligations of the Bank under this Undertaking the Bank may at any time, without being required to do so, extinguish any liability it has under the Undertaking by paying to the Favouree the Amount less any amount or amounts it has previously paid under this Undertaking, or any lesser amount the Favouree notifies the Bank as being acceptable to it.

The benefit of this Undertaking is personal to the named Favource and is not capable of assignment.

Page 1 of 2

LE213.029 15/06/2007

www.westpac.com.au

BANKER'S UNDERTAKING

WESTPAC BANKING CORPORATION ABN 33 007 457 141 (the "Bank") By:

Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the To:

"Favouree")

At the request of: Anglican Retirement Villages (the "Customer")

Amount: \$17,500.00

Dated at Parramatta, this 4 August 2009

I certify that the Attorney for the Bank, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence,

Signature of Witness:

Name of Witness: Whelle

Address of Witness: LEVEL 2
9 GEORGE ST

PAPTAMATTA NSW 2150

SIGNED by Stephenie Hansen as attorney for Westpac Banking Corporation ABN 33 007 457 141 under power of attorney registered Book 4299 No 332.

Signature

By executing this instrument the attorney states that the attorney has received no notice of the revocation of the power of attorney.

Please forward all notices and correspondence to The Manager, Westpac Banking Corporation at Premium Business Group 9 George Street PARRAMATTA NSW 2150.



Premium Business Group 9 George Street PARRAMATTA NSW 2150 Telephone: 02 8835 4208 Fácsimile: 02 9635 7320

BANKER'S UNDERTAKING

To: Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the "Favouree")

At the request of: Anglican Retirement Villages (the "Customer")

and in consideration of the Favouree accepting this Undertaking for the Water Quality Control Devices over Property DA 102/05, 6-14 MacPherson Street, Warriewood NSW, WESTPAC BANKING CORPORATION (the "Bank") unconditionally undertakes to pay on demand any amount or amounts which may from time to time be demanded in writing purporting to be signed by or on behalf of the Favouree, up to a maximum aggregate sum of \$10,000.00 (the "Amount").

Payment of the Amount or any part thereof will be made by the Bank to the Favouree without reference to the Customer and regardless of any notice from the Customer to the Bank not to pay any amount.

The Bank's obligations under this Undertaking cease on the earliest of the following:

- written notification is received by the Bank from the Favouree that the Undertaking is no longer required
- the Undertaking is returned to the Bank
- all payments by the Bank to the Favouree under the Undertaking total the Amount
- the Favouree notifies the Bank that the payments made by the Bank constitute the total amount required to be paid

Notwithstanding any other obligations of the Bank under this Undertaking the Bank may at any time, without being required to do so, extinguish any liability it has under the Undertaking by paying to the Favouree the Amount less any amount or amounts it has previously paid under this Undertaking, or any lesser amount the Favouree notifies the Bank as being acceptable to it.

The benefit of this Undertaking is personal to the named Favouree and is not capable of assignment.

Page 1 of 2

LE213.029 15/06/2007

www.westpac.com.au

BANKER'S UNDERTAKING

WESTPAC BANKING CORPORATION ABN 33 007 457 141 (the "Bank") By:

Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the To:

"Favouree")

At the request of:

Anglican Retirement Villages (the "Customer")

Amount: \$10,000.00

Dated at Parramatta, this 4 August 2009

I certify that the Attorney for the Bank, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

SIGNED by Stephenie Hansen as attorney for Westpac Banking Corporation ABN 33 007 457 141 under power of attorney registered Book 4299 No 332.

Signature of Witness

Name of Witness: Joulle

LEVEL 2

Address of Witness:99EORGEST. PARRAMATTA NSW 2150

"Signature

By executing this instrument the attorney states that the attorney has received no notice of the revocation of the power of attorney.

Please forward all notices and correspondence to The Manager, Westpac Banking Corporation at Premium Business Group 9 George Street PARRAMATTA NSW 2150.



Premium Business Group 9 George Street PARRAMATTA NSW 2150 Telephone: 02 8835 4208 Facsimile: 02 9635 7320

BANKER'S UNDERTAKING

To: Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the "Favouree")

At the request of: Anglican Retirement Villages (the "Customer")

and in consideration of the Favouree accepting this Undertaking for the Narrabeen Creek Civil Works over Property DA 102/05, 6-14 MacPheison Street, Warriewood NSW, WESTPAC BANKING CORPORATION (the "Bank") unconditionally undertakes to pay on demand any amount or amounts which may from time to time be demanded in writing purporting to be signed by or on behalf of the Favouree, up to a maximum aggregate sum of \$37,500.00 (the "Amount").

Payment of the Amount or any part thereof will be made by the Bank to the Favouree without reference to the Customer and regardless of any notice from the Customer to the Bank not to pay any amount.

The Bank's obligations under this Undertaking cease on the earliest of the following:

- written notification is received by the Bank from the Favouree that the Undertaking is no longer required
- the Undertaking is returned to the Bank
- all payments by the Bank to the Favouree under the Undertaking total the Amount
- the Favouree notifies the Bank that the payments made by the Bank constitute the total amount required to be paid

Notwithstanding any other obligations of the Bank under this Undertaking the Bank may at any time, without being required to do so, extinguish any liability it has under the Undertaking by paying to the Favouree the Amount less any amount or amounts it has previously paid under this Undertaking, or any lesser amount the Favouree notifies the Bank as being acceptable to it.

The benefit of this Undertaking is personal to the named Favouree and is not capable of assignment.

Page 1 of 2

LE213.029 15/06/2007

www.westpac.com.au

BANKER'S UNDERTAKING

WESTPAC BANKING CORPORATION ABN 33 007 457 141 (the "Bank") By:

To: Pittwater Council A.B.N 61 840 837 871 of PO Box 882, Mona Vale NSW 1660 (the

"Favouree")

At the request of: Anglican Retirement Villages (the "Customer")

Amount: \$37,500.00

Dated at Parramatta, this 4 August 2009

I certify that the Attorney for the Bank, with whom I am personally acquainted or as to whose identity I am otherwise satisfied, signed this instrument in my presence.

SIGNED by Stephenie Hansen as attorney for Westpac Banking Corporation ABN 33 007 457 141 under power of attorney registered Book 4299 No 332.

Signature of Witness:

Name of Witness: Claly

LEVEL 2

Address of Witness:9 @EORQE 07 PARRAMATTA NSW 2150

Signature

By executing this instrument the attorney states that the attorney has received no notice of the revocation of the power of attorney.

him way

Please forward all notices and correspondence to The Manager, Westpac Banking Corporation at Premium Business Group 9 George Street PARRAMATTA NSW 2150.



20 July 2009

Steve Watson & Partners Pty Ltd Level 5/432 Kent Street SYDNEY NSW 2000

Attention: Andrew Rys

To whom it may concern,

CERTIFICATE OF DESIGN:

LANDSCAPE ARCHITECTURE

SUBJECT PREMISES

ARV Warriewood

6,8,10,12 and 14 MacPherson Street, and 53, 53b, 53c and 61

Warriewood Road NSW 2102

DEVELOPMENT APPLICATION

We have inspected the above development upon practical completion of the works dated 29 June 2009.

Pursuant to the provisions of Clause A2.2 of the Building Code of Australia, I hereby certify that the above design is in accordance with normal engineering practice and meets the requirements of the Building Code of Australia, any relevant fire safety engineering report, the Environmental Planning and Assessment Regulation, relevant Australian Standards and relevant conditions of the Development Consent. In particular the design is in accordance with the following DA requirements for landscape:

- DA Condition B44. All fencing is to be keeping with the requirements of section D14.16 of Pittwater 21 DCP.
- DA Condition C1. Stating that 3 sets of detail landscape plans/ working drawings were submitted prior to the release of Construction Certificate, and that the plans were prepared in accordance with the landscape master plan.
- DA Condition D2. Chain wire protective mesh fencing was provided in accordance with the above condition prior to commencement of works on site

I am an appropriately qualified and competent person in this area being employed as a Landscape Architect and as such can certify that the design and performance of the design systems comply with the above and which are detailed on the following drawings.

Austinmer

LC01 Landscape Finishes	Rev K
LC02 Landscape Finishes	Rev K
LC03 Landscape Finishes	Rev G
LC04 Landscape Finishes	Rev F
LC07 Fencing - MacPherson	Rev C
LC08 Fencing - Brands Lane	Rev C
LC09 Boardwalk	Rev B
LS01 Path Set out	Rev F

taylor brammer landscape architects pty ltd abn 61 098 724 988

www.taylorbrammer.com.au

Sydney

218 Oxford Street Woollahra NSW 2025 Australia

t: +61 2 9387 8855 f: +61 2 9387 8155 e: sydney@taylorbrammer.com.au

26 Moore Street Austinmer PO Box 64 Austinmer NSW 2515 Australia t: +61 2 4267 5088 f: +61 2 4267 4826 e: southcoast@taylorbrammer.com.au

Rev C LS02 Path Set out LS03 Path Set out Rev C Rev B LD01 Details Rev A LD02 Details Rev D LD03 Details LP01 Planting Plan Rev B Rev A LP02 Planting Plan LP03 Planting Plan Rev A

I possess Indemnity Insurance to the satisfaction of the building owner or my principal.

Full Name of Designer:

James Heron

Qualifications:

BLArch (Hons 1) HNDip Hort

Address of Designer:

218 Oxford Street

Business Telephone No:

WOOLLAHRA NSW 2025

02 9387 8855

Fax No: 02 9387 8155

Name of Employer:

Signature:

Matthew Taylor- Director

Dontagler



Certificate of Compliance

NRP ARCHITECTURE ABN 21 083 698 882

Level 8/15 Help Street Chatswood NSW 2067 PO Box 5036 West Chatswood NSW 1515

T 61 (0)2 8966 6001 F 61 (0)2 8966 6126 E mall@nrparchitecture.com.au

Development:

Stage 1: 64 Independent Living Units at

6-14 Macpherson Street Warriewood

Owners:

Anglican Retirement Villages

Owners Address:

62 Norwest Bvd, Baulkham Hills, NSW

Materials and colours

We certify that the materials and colours are generally in accordance with the samples submitted with the Development Application. No white or lighted coloured roofs are used.

I Morris Rosenberg of NRP Architecture, certify that to the best of my knowledge and belief, the information contained in this certificate is true and accurate.

..........Date.......8th July2009

Rosenberg Architects Pty Limited ABN 21 083 598 882 trading as NRP ARCHITECTURE Director / Nominated Architect Morris Rosenberg (Reg No 3308) B Arch (Hons) FRAIA

COMPLIANCE LETTER



24 June 2009

Document # 460 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D30

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd have provided and maintained continuous weather vehicle access to Foley's Nursery in Brands Lane. Such access has accommodated all vehicles including retail customers and service 1 delivery vehicles, and therefore advise that we have complied with the above mentioned DA Condition.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Verry Edwards Project Manager

Southern Cross Constructions (NSW) Pty Ltd

135-153 New South Head Road Edgecliff NSW 2027 Tel:029363 1111 Fax:029363 0011 Email:scc@southemcrossgroup.net

A.B.N.78 083 223 107 Lic.No.119353C

COMPLIANCE LETTER



24 June 2009

Document # 463 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D29

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd for the duration of construction period have complied with DA Condition D29, in which all asbestos laden waste, including flat, corrugated or profiled asbestos cement sheets have been disposed on at a lawful waste disposal facility.

In accordance with DA condition D29, please find attached tipping receipts and clearance certification from David Lane & Associates as evidence of proper disposal.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager

Southern Cross Constructions (NSW) Pty Ltd

135-153 New South Head Road Edgecliff NSW 2027 Tel:02 9363 1111 Fax:02 9363 0011 Email:scc@southerncrossgroup.net

A.B.N.78 083 223 107 Lic.No.119353C



25th March 2008

DL1995

Mr Terry Edwards Southern Cross Constructions Pty. Ltd. 135-153 New South Head Road Edgecliff NSW 2027

Dear Mr Edwards

Asbestos Clearance Certification Area North East of Stage 2 - 8-14 Macpherson Street, Warriewood

Following the removal of minor asbestos fragments by Cardnial Project Services Pty. Ltd. at the site identified as the Southern Cross Construction Site Establishment Area, North East of the Stage 2 retirement village development located at 8-14 Macpherson Street Warriewood, an asbestos clearance inspection was undertaken. David Lane Associates undertook a site inspection on Thursday 20th March 2008. The Site Establishment Area is approximately 1600m².

It was concluded that the area was free of visible asbestos contamination at the time of inspection and presented a safe environment for both personnel access and planned site establishment activities.

However, due to the nature of the material and associated site history, it is never possible to guarantee every fragment of asbestos containing material has been identified. In the unlikely event that soil disturbance uncovers a fragment of an asbestos containing material, given its bonded matrix and isolated nature, this event would not pose an unacceptable health risk to the property. However all asbestos events should be addressed and for this reason an Unexpected Finds Protocol has been included for future

Unit 2B 30 Leighton Place, Hornsby NSW 2077 • Phone: 9476 1765 • Fax: 9476 1557 • E-mail: dlassociates@bigpond.com

NEWCASTLE

778 Old North Rd, Rothbury NSW 2335 • Phone: 4938 3300 • Fax: 4938 3811 • E-mail:dolane@bigpond.com



site establishment activities in the Clearance documentation. The Unexpected Finds Protocol should be implemented to address any minor discoveries. The Unexpected Finds Protocol is attached.

Yours Faithfully
DAVID LANE ASSOCIATES

David Lane

Director



Southern Cross Constructions Site Establishment Area North East of Stage 2 8-14 Macpherson Street, Warriewood

Unexpected Find of Asbestos Containing Material PROTOCOL

Listed below are the steps that need to be followed in the event of an unexpected discovery of suspected asbestos containing materials at the Southern Cross Constructions Site Establishment Area.

The site north east of the stage 2 development at 8-14 Macpherson Street, Warriewood NSW contained minor impaction from bonded asbestos sheet fragments in fill materials within localised areas (surface 0-150mm)

The materials were subsequently removed and appropriate Clearance Certifications issued. Due to the nature of this material it is not possible to guarantee every fragment has been identified and removed, therefore, it is appropriate this Unexpected Find Protocol is introduced on the Site.

This protocol is to be posted on-site in an accessible location for all operators to read with its contents included in the on-site induction package.

> SUSPECTED ASBESTOS MATERIAL UNCOVERED

- 1. Cease disturbance of the material and leave the immediate area.
- 2. Contact the Site Foreman or appropriate Manager.
- Foreman to conduct an assessment of the location of the suspected asbestos containing material taking into consideration possible asbestos matrix and quantity of material.
 ie. if the quantity is small the Foreman initiates a cleanup using appropriate personal protective equipment and procedures.
- 4. If Foreman decides the material and quantities warrants further investigation the area is to be barricaded off to provide a ten (10) metre exclusion zone. Work can recommence in adjacent areas outside the exclusion zone.
- The Foreman arranges with his Manager to organise a further qualified assessment of the suspected materials.



 Visual assessments and samples collected by a suitably qualified Occupational Hygienist. Samples sent to a NATA registered laboratory for analysis.

> CONFIRM PRESENCE OF ASBESTOS BY VISUAL OR ANALYSIS?

YES – Conduct asbestos clean-up utilising accepted practices in accordance with the Worksafe Code of Practice and Chapter 8 Part 8.7 Asbestos – Particular Provisions of the OHS Regulation 2001.

Conduct visual clearance inspections and airborne asbestos monitoring.

If both inspections and monitoring are acceptable the barricades can be removed and resume work notification instructed.

Complete the Asbestos Incident Report form and forward to designated Management.

NO - Remove the barricades and resume work.



Southern Cross Constructions Site Establishment Area North East of Stage 2 8-14 Macpherson Street, Warriewood

Asbestos Incident Report

	Report Number
ime of Incident	
Date of Incident	
Details of Incident	
Classification of Incident (Circle)	Minor asbestos Incident Major Asbestos Incident Breach of Regulations Regulatory Involvement
Immediate Action Taken:	
Signed:	Date:



ABN 36 926 003 197 **

22nd July 2008

DL1995

Mr Terry Edwards
Southern Cross Constructions Pty. Ltd.
135-153 New South Head Road
Edgecliff
NSW 2027

Dear Mr Edwards

Asbestos Clearance Certification Warriewood Brook Stage 1 – Building B/C 8-14 Macpherson Street, Warriewood

Following asbestos fragment removal by Cardinal Project Services Pty Ltd at the site identified as Warriewood Brook Stage 1 of the Anglican Retirement Village Development, located at 8-14 Macpherson Street Warriewood, an asbestos clearance inspection was undertaken. David Lane Associates undertook a site inspection on Tuesday 22nd July 2008 for the purpose of assessing remediation works.

It was concluded that detailing of the site has eliminated the health risk associated with the presence of bonded asbestos materials within a footprint area of Building 'B' and 'C'. All contaminated material was removed from the Site and disposed of in accordance with Protection of the Environment Operations (Waste) Regulation 2005 and the NSW DECC Waste Classification Guidelines, 2008 as stipulated in the RAP prepared by P Clifton & Associates Pty Ltd, April 2007.

The area surface was free of visible asbestos contamination at the time of inspection and presented a safe environment for both personnel access and planned site activities.



Due to the nature of the material and associated site history, it is never possible to guarantee every fragment of asbestos containing material has been identified. In the unlikely event that soil disturbance uncovers a fragment of an asbestos containing material, given its bonded matrix and isolated nature; this event would not pose an unacceptable health risk to the property. All asbestos events should be addressed however and for this reason an Unexpected Finds Protocol has been included for future site activities in the Clearance documentation. The Unexpected Finds Protocol should be implemented to address any minor discoveries. The Unexpected Finds Protocol is attached.

Yours Faithfully

DAVID LANE ASSOCIATES

David Lane

Director



Southern Cross Constructions Warriewood Brook Stage 1 8-14 Macpherson Street, Warriewood

Unexpected Find of Asbestos Containing Material PROTOCOL

Listed below are the steps that need to be followed in the event of an unexpected discovery of suspected asbestos containing materials at the Southern Cross Constructions Stage 2 Anglican Retirement Village Development.

The site at 8-14 Macpherson Street, Warriewood NSW contained minor impaction from bonded asbestos sheet fragments in fill materials within localised areas (surface 0-150mm)

The materials were subsequently removed and appropriate Clearance Certifications issued. Due to the nature of this material it is not possible to guarantee every fragment has been identified and removed, therefore, it is appropriate this Unexpected Find Protocol is introduced on the Site.

This protocol is to be posted on-site in an accessible location for all operators to read with its contents included in the on-site induction package.

> SUSPECTED ASBESTOS MATERIAL UNCOVERED

- Cease disturbance of the material and leave the immediate area.
- Contact the Site Foreman or appropriate Manager.
- Foreman to conduct an assessment of the location of the suspected asbestos
 containing material taking into consideration possible asbestos matrix and
 quantity of material.
 ie. if the quantity is small the Foreman initiates a cleanup using appropriate
 personal protective equipment and procedures.
- If Foreman decides the material and quantities warrants further investigation the area is to be barricaded off to provide a ten (10) metre exclusion zone. Work can recommence in adjacent areas outside the exclusion zone.
- The Foreman arranges with his Manager to organise a further qualified assessment of the suspected materials.
- Visual assessments and samples collected by a suitably qualified Occupational Hygienist. Samples sent to a NATA registered laboratory for analysis.



> CONFIRM PRESENCE OF ASBESTOS BY VISUAL OR ANALYSIS?

YES – Conduct asbestos clean-up utilising accepted practices in accordance with the Worksafe Code of Practice and Chapter 8 Part 8.7 Asbestos – Particular Provisions of the OHS Regulation 2001.

Conduct visual clearance inspections and airborne asbestos monitoring.

If both inspections and monitoring are acceptable the barricades can be removed and resume work notification instructed.

Complete the Asbestos Incident Report form and forward to designated Management.

NO - Remove the barricades and resume work.



Southern Cross Constructions Warriewood Brook Stage 1 8-14 Macpherson Street, Warriewood

Asbestos Incident Report

	Report Number
Time of Incident	
Date of Incident	
Details of Incident	
Classification of Incident (Circle)	Minor asbestos Incident Major Asbestos Incident Breach of Regulations Regulatory Involvement
Immediate Action Taken:	
Signed:	Date:





ABN 36 926 003 197

1st April 2009

DL1995

Mr Terry Edwards
Southern Cross Constructions Pty. Ltd.
135-153 New South Head Road
Edgecliff
NSW 2027

Dear Mr Edwards

Asbestos Clearance Certification Warriewood Brook Stage 1 8-14 Macpherson Street, Warriewood

Following the removal of asbestos contaminated stockpiled soils by TF Group Pty Ltd an asbestos footprint clearance inspection was undertaken. The site is identified as Warriewood Brook Stage 1 of the Anglican Retirement Village Development, located at 8-14 Macpherson Street Warriewood. David Lane Associates undertook a site inspection on Wednesday 1st April 2009 to enable general access by Site personnel.

It was concluded that detailing of the **Stockpile 2 Footprint** area has eliminated the health risk associated with the presence of bonded asbestos materials. All contaminated material was removed from the Site and disposed of in accordance with Protection of the Environment Operations (Waste) Regulation 2005 (as Amended, 2008) and the NSW DECC Waste Classification Guidelines, 2008 as stipulated in the RAP prepared by P Clifton & Associates Pty Ltd, April 2007.

The stockpile footprint surface was free of visible asbestos contamination at the time of inspection and presented a safe environment for both personnel access and planned site activities.

SYDNEY Unit 28 30 Leighton Place, Hornsby NSW2077 P 9476 1765 F 9476 1557 E dlassociates@bigpond.com
NEWCASTLE PO Box 137, Branxton NSW 2335 P 4938 3800 F 49383811 E dolane@bigpond.com





Due to the nature of the material and associated site history, it is never possible to guarantee every fragment of asbestos containing material has been identified. In the unlikely event that soll disturbance uncovers a fragment of an asbestos containing material, given its bonded matrix and isolated nature; this event would not pose an unacceptable health risk at the property. All asbestos events should be addressed however and for this reason an Unexpected Finds Protocol has been included for future site activities in the Clearance documentation. The Unexpected Finds Protocol should be implemented to address any minor discoveries.

Refer to Attachment 1 Unexpected Finds Protocol.

Yours Faithfully

DAVID LANE ASSOCIATES

David Lane

Director

DAVID LANE ASSOCIATES



Attachment 1

Unexpected Finds Protocol

DAVID LANE ASSOCIATES



Langitic Language Association and Association

ABN 36 325 303 197

Southern Cross Constructions Warriewood Brook Stage 1 8-14 Macpherson Street, Warriewood

Unexpected Find of Asbestos Containing Material PROTOCOL

Listed below are the steps that need to be followed in the event of an unexpected discovery of suspected asbestos containing materials at the Southern Cross Constructions Stage 1 Anglican Retirement Village Development.

The site at 8-14 Macpherson Street, Warriewood NSW contained minor impaction from bonded asbestos sheet fragments in fill materials within localised areas (surface 0-150mm)

The materials were subsequently stockpiled, removed and appropriate Clearance Certifications issued. Due to the nature of this material it is not possible to guarantee every fragment has been identified and removed, therefore, it is appropriate this Unexpected Find Protocol is introduced on the Site.

This protocol is to be posted on-site in an accessible location for all operators to read with its contents included in the on-site induction package.

> SUSPECTED ASBESTOS MATERIAL UNCOVERED

- 1. Cease disturbance of the material and leave the immediate area.
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 quantity of material.
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- The Foreman arranges with his Manager to organise a further qualified assessment of the suspected materials.



6. Visual assessments and samples collected by a suitably qualified Occupational Hygienist. Samples sent to a NATA registered laboratory for analysis.

> CONFIRM PRESENCE OF ASBESTOS BY VISUAL OR ANALYSIS?

YES – Conduct asbestos clean-up utilising accepted practices in accordance with the Worksafe Code of Practice and Chapter 8 Part 8.7 Asbestos – Particular Provisions of the OHS Regulation 2001.

Conduct visual clearance inspections and airborne asbestos monitoring.

If both inspections and monitoring are acceptable the barricades can be removed and resume work notification instructed.

Complete the Asbestos Incident Report form and forward to designated Management.

NO - Remove the barricades and resume work.



Southern Cross Constructions Warriewood Brook Stage 1 8-14 Macpherson Street, Warriewood

Asbestos Incident Report

	Report Number
Fime of Incident	
Date of Incident	
Details of Incident	
Classification of Incident (Circle)	Minor asbestos Incident Major Asbestos Incident Breach of Regulations Regulatory Involvement
Immediate Action Taken:	
Signed:	Date:

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IF Group Pry Ltd

Blacktown Waste Services 920 Richmond Rd

Report By Job Number From 01/04/2009 To 06/04/2009

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	03/04/2009	09:20	AGROKW	IN	COMPANSPECIAL WASTE - ASB	253256 124837	48.94	18.30	30,64	
	03/04/2009	09:23	AT94HR	IN	COMPAN'SPECIAL WASTE - ASB	253257 124838	51.62	18.52	33.10	1
	03/04/2009	09:38	KWT658	IN	COMPAN'SPECIAL WASTE - ASB	253259 124836	49.66	19,52	30.14	
	03/04/2009	11:18	TFG007	IN	COMPANSPECIAL WASTE - ASB	253273 124839	46.88	16.42	30.46	
	03/04/2009	11:27	AM93RZ	IN	COMPAN'SPECIAL WASTE - ASB	253278 124840	44.62	19.96	24.66	
	03/04/2009	11:51	AV50SR	IN	COMPAN'SPECIAL WASTE - ASB	253283 124841	51.92	17.82	34.10	
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	03/04/2009	9 13:54	AM93RZ	IN	COMPAN'SPECIAL WASTE - ASB	253310 124846	46.30	19.94	26.36	
	03/04/200	9 14:11	AV50SR	IN	COMPAN'SPECIAL WASTE - ASB	253313 124847	49.34	17.88	31.46	
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	03/04/200	9 15:10	AV89DM	IN	COMPAN'SPECIAL WASTE - ASB	253333 124842	52.22	17.90	34.32	
	06/04/200	9 09:18	3 KWT658	IN	COMPAN'SPECIAL WASTE - ASB	253460 124752	49.24	18.84	30.40	
	06/04/200	9 09:40	AT94HR	IN	COMPAN'SPECIAL WASTE - ASB	253475 124753	49.78	18.24	31.54	
		•								

Printed: 7/04/2009

Transactions: 31 Total Transactions: 31	an production of the state of t	Total:	1548.92	977.70
06/04/2009 15:05 AGROKW IN	COMPANSPECIAL THOU	Summary:	1548.92	977.70
06/04/2009 14:57 AV50SR IN	COMPANISPECIAL WASTE - ASB	253648 (24765	54.52	18.88 35.64
06/04/2009 14:55 AT94HR IN	COMPAN'SPECIAL WASTE - ASB	253643 124764	47.56	
06/04/2009 13:48 KWT658 IN	COMPANSPECIAL WASTE - ASB	253642 124763	51.84	17.96 29.60
	COMPANISPECIAL WASTE - ASB	253607 124762	1	18,16 33,68
06/04/2009 12:42 AV89DM IN	COMPAN'SPECIAL WASTE - ASB	253569 124761	54.98	18.96 36.02
06/04/2009 12:37 AGROKW IN	COMPANISPECIAL WASTE - ASB	253567 124760	48.46	17.78 30.68
06/04/2009 12:28 AV50SR IN	COMPAN'SPECIAL WASTE - ASB	253562 124759	52.94	19.00 33.94
06/04/2009 12:27 AT94HR IN	COMPAN'SPECIAL WASTE - ASB	253561 124758	48.84	18.10 30.74
06/04/2009 11:35 KWT658 IN	COMPAN'SPECIAL WASTE - ASB		47.80	18.28 29.52
06/04/2009 10:06 AV89DM IN	COMPAN'SPECIAL WASTE - ASB		46.48	18.84 27.64
6/04/2009 10:04 AGROKW IN	COMPAN'SPECIAL WASTE - ASB		47.86	17.76 30.10
6/04/2009 09:50 AV50SR IN	COMPAN'SPECIAL WASTE - ASB		52.48	18.80 33.68
ate Time Rego# Direct		253481 124754	49.16	18.00 31.16
*	- Deaduct	Docket # Deliverly	Gross(t) I	are(t) Net(t)

Printed: 7/04/2009

17

Report By Job Number From 27/03/2009 To 27/03/2009

Total Transactions: 10	Total:	469.76	289.
Transactions: 10	Summary:	469.76	289.
27/03/2009 14:45 AV89DM IN COMPANSPECIAL WASTE ASB	252306 (15345	50.32	17.70 32
27/03/2009 14 41 TEG007 AN COMPANSPECIAL WASTE ASB	252302 110173	45.72	16.18 29
27/03/2009 14:39 AM93RZ IN COMPANSPECIAL WASTE ASB	252300 (21788	40.50	19.84 20.
27/03/2009 14:38 ATS4HR IN COMPANSPECIAL WASTE ASB	252298 124621	50,92	18.20 32
27/03/2009 14:37 AVSOSR IN COMPANSPECIAL WASTE ASB	252297 1 24558	48.56	17:54 31.
27/03/2009 11:31 TFG007 IN COMPANSPECIAL WASTE ASB	252193 110172	44.38	17.08 27.
27/03/2009 11:28 AV89DM VIN COMPANSPECIAL WASTE ASB	252189 115344	47.32	17.68 29
7/03/2009 AT 18 JAM93RZ VIN COMPANSPECIAL WASTE - ASB	252182 12178	43.70	19.92 .23.
7/03/2009 10:58 AT94HR / IN COMPANSPECIAL WASTE ASB	252170 12 4 62 0	49.54	18.20 31.
7/03/2009 10:55 AV-50SR /IN COMPANSPECIAL WASTE ASB	252169 i 24557	48.80	17.60 31
lame: TFG0323-WARRIEWOOD	- L		
Date Time Rego # Direct Owner Product	Docket # Deliverly	Gross(t)	Tare(t) Ne
	W 4	- "	- /

Printed: 30/03/2009



Report By Job Number From 30/03/2009 To 30/03/2009

Date	Time Rego# Direct	Owner Product	Docket # Deliverly	Gross(t)	Tare(t) Net(t)
Name:	TFG0323-WARRIEW	OOD	, .		
30/03/20	09 09:10 KWT658 IN.	COMPANSPECIAL WASTE - ASB	252560 124802	50.92	18.96 . 31.96
30/03/20	09.09.21 MT247.4 [™] IN	COMPANSPECIAL WASTE - ASB	252562 124501	48.08	16.16 31.92
30/03/20	09 09:51 TFG007 N	COMPANSPECIAL WASTE - ASB	252576 NY804	48.70	16.02 32.68
30/03/20	09-10:00 AT94HR IN	-COMPANSPECIAL WASTE - ASS	252584 124805	48.04	18.02 30.02
30/03/20	09 10:20 AV50SR IN	COMPANSPECIAL WASTE - AS3	252593 124 806	50.32	17.96 32:36
30/03/20	09 10:56 AM93RZ IN	COMPANSPECIAL WASTE - AS3	252620 124867	47.52	19.64 27.88
30/03/20	09.11.13°MT404° IN	COMPANSPECIAL WASTE - ASS	252629 124803	55.76	17.68 38.08
30/03/20	09: 11:46 KWT658 IN	COMPANSPECIAL WASTE - ASB	252649 124808	49.94	18.90 31.04
30/03/20	09 12:01 MT2474 NN	COMPANSPECIAL WASTE - ASS	252664 1249,59	49.78	16.22 33.56
30/03/20	09 12:13 TEG007 #N	COMPANSPECIAL WASTE - ASB	252675 izy810	53.10	15.98 37.12
30/03/20	09 12:33 AT94HR IN	COMPANSPECIAL WASTE - ASB	252687 (246)	47,76	18.08 29.68
30/03/20	09 12:51 AV50SR IN	COMPANSPECIAL WASTE-ASB	252705 124812	49.38	17.88 31.50
30/03/20	09 13:38 AM93RZ IN	COMPANSPECIAL WASTE - ASB	252726 1214813	45.54	19.50 26.04
30/03/20	09 14:34 KWT658 IN	COMPANSPECIAL WASTE - ASB	252767 124614	47.66	18.94 28.724
30/03/20	09 15 6 MT2474 IN	COMPANSPECIAL WASTE - ASB	252782 124815	49.88	16.10 33.78
30/03/20	09 15 13 TEG007 IN	COMPANSPECIAL WASTE - ASB	252791 124816	45.44	15.96 . 29:48
30/03/20	09 15:32 AT94HR IN V	COMPANSPECIAL WASTE - ASB	252799 (24517	46,46	17.94 28.52
30/03/20	009 15:56 AV50SR IN V	COMPANSPECIAL WASTE - ASB	252811 LLYGIS	48.16	17.86 30.30 4
30/03/20	009 16:14 AM93RZ IN V	COMPANSPECIAL WASTE - ASB	252822 124819	42.76	19.36 23.40
	`				588.3

Report By Job Number From 31/03/2009 To 31/03/2009

Date Time Rego # Direct	Owner Product	Docket #	Deliverly	Gross(t)	Tare(t) Ne
Name: TFG0323-WARRIEW	OOD				
31/03/2009 09:19 WT:2474 IN	COMPANSPECIAL WASTE - ASB	252895	124820	48.70	16.26 32
31/03/2009 09:32 KWT658 IN	COMPANSPECIAL WASTE - ASB	252899	124822	50,52	18,94 31
31/03/2009-09:55 AV50SR IN	COMPANEREGIAL WASTE - ASB:	252907 L	211823	40.68	17.86 31
31/03/2009/09:56: AT94HR: IN V	COMPANSPECIAL WASTE - ASB	252908 \	24824	49.26	18.38 (30)
31/03/2009 09:59 AM98RZ IN	COMPANAPECIAL WASTE - ASB	252911	124825	48.80	19.50 29
31/03/2009 10 16 MT404 IN	COMPANSPECIAL WASTE-ASB	252918	12482	57.16	17.74 39
31/03/2009-12-05 KWT658 IN	COMPANSPECIAL-WASTE-ASB	252975	124826	48.48	18.74 29
31/03/2009 12:17 MT2474 IN	COMPANSPECIAL WASTE -ASB	252978	24827	46.96	16.24 30
31/03/2009-13:01-AV50SR IN JA	PRIVATE SPECIAL WASTE - ASB	252998	124829	51.10	17.66 (33)
31/03/2009 13 07 AT94HR IN	COMPANSPECIAL WASTE - ASB	253001	124830	51.62	18.28 (33)
31/03/2009 13:23 AM93RZ IN	COMPANSPECIAL WASTE-ASB	253011	124831	49.54	19.66
31/03/2009 11/02 MT404 IN	COMPANSPECIAL WASTE - ASB	253030	124832	58.74	17.72 41.0
31/03/2009 14:37 KWT658 IN V	COMPANSPECIAL WASTE - ASB	253039	124833	53.00	18.74 34.2
Transactions: 13			Summary:	663.56	427.8
Total Transactions: 13			Total:	663.56	427.8

Printed: 1/04/2009

Report By Job Number From 01/04/2009 To 06/04/2009

Date	Time	Rego#	Direct	Owner Product	Docket	t # Deliverly	Gross(t)	Tare(t)	Not(+)	
		*			Dounce	C# BONVOIN	Crossity	1310(1)	NGI(L)	
Name:	TFG	323-WA	RRIEW	OOD			1			
03/04/2009	08:53	AV50SR	IN ·	COMPANISPECIAL WASTE - ASB	253251	124835	49.00	17.90	31.10	
03/04/2009	09:20	AGROKW	IN	COMPANSPECIAL WASTE - ASB	253256	124837	48.94	18.30	30.64	
03/04/2009	09:23	AT94HR	IN	COMPAN'SPECIAL WASTE - ASB	253257	124838	51.62	18.52	33.10	
03/04/2009	09:38	KWT658	IN	COMPANISPECIAL WASTE - ASB	253259	124836	49.66	19.52	30.14	
03/04/2009	11:18	TFG007	IN	COMPAN'SPECIAL WASTE - ASB	253273	124839	46.88	16.42	30.46	
03/04/2009	11:27	AM93RZ	IN	COMPAN'SPECIAL WASTE - ASB	253278	124840	44.62	19.96	24.66	
03/04/2009	11:51	AV50SR	IN	COMPAN'SPECIAL WASTE - ASB	253283	124841	51.92	17.82	34.10	
33/04/2009	12:00	AGROKW	'IN	COMPAN'SPECIAL WASTE - ASB	253286	124843	45.96	18.40	27.56	
03/04/2009	12:17	AT94HR	IN	COMPAN'SPECIAL WASTE - ASB	253292	124844	50.50	18.48	32.02	
03/04/2009	12:38	KWT658	IN	COMPAN'SPECIAL WASTE - ASB	253296	124845	55.78	19.68	36.10	
03/04/2009	13:54	AM93RZ	IN	COMPAN'SPECIAL WASTE - ASB	253310	124846	46.30	19.94	26.36	
03/04/2009	14:11	AV50SR	IN	COMPAN'SPECIAL WASTE - ASB	253313	124847	49.34	17.88	31.46	
03/04/2009	14:23	AGROKW	IN	COMPAN'SPECIAL WASTE - ASB	253315	124848	53.90	18.54	35.36	
03/04/2009	14:32	TFG007	IN	COMPAN'SPECIAL WASTE - ASB	253318	194849	50.78	16.36	34.42	
03/04/2009	20196	AT94HR	IN	COMPAN'SPECIAL WASTE - ASB	253322	124850	48.86	18.38	30.48	
03/04/2009	14:47	KWT658	IN	COMPAN'SPECIAL WASTE - ASB	253325	124751	50.70	19.62	31.08	
03/04/2009	15:10	AV89DM	IN	COMPAN'SPECIAL WASTE - ASB	253333	124842	52.22	17.90	34.32	
 06/04/2009	09:18	KWT658	IN 4	COMPANSPECIAL WASTE - ASB	253460	124752	49.24	18.84	30.40	
 06/04/2009	09:40	AT94HR	IN	COMPANSPECIAL WASTE - ASB	253475	124753	49.78	18.24	31.54	

... Printed: 7/04/2009

Transactions: 31 Total Transactions: 31	Total:	1548.92	977.70
06(04/2009 10:05 AGNOIX	Summary:	1548.92	977.70
THE OFFICE AND ASSESSMENT OF THE PROPERTY OF T	253648 12-1765	54.52	
10004/2009 14-00-00-00-00-00-00-00-00-00-00-00-00-00	253643 124764	47.56	
06/04/2009 13:45 KW 038	253642 \ 24763	51.84	Treed . Or a.
06/04/2009 12:42:AVO9BW	253607 1247162-	54,98	18.96 36.02
0004 2009 F 23 / AGROKWIN COMPANSPECIAL WASTE - ASB	253569 12 Y T W	48,46	17.78 30.68
106/04/200920228, AVSOSR IN COMPANSPECIAL WASTE - ASB	253567 124760	52.94	19.00 33.94
COMPANSPECIAL WASTE - ASB	253562 124754	48.84	18.10 30.74
OBJO4/2009 EM 354 KWIN658 JIN COMPANSREGIAL WASTE LASB	253561 124758	47.80	18:28 29.52
05/04/2009 10/06 AV89DM IN GOMPANSPEGIAL WAS IE FASB	253493	46.48	18.84 27.64
05/04/2009-10:04 AGROKWIN: COMPANSPECIAL WASTE ASB	253491	47,86	17.76 30.10
00/04/2009/09/50 AVEOSR IN COMPANSPECIAL WASTE ASB	253481	52,48	18.80 33.68
Date Time Rego# Direct Owner Product	The second secon	49.16	18.00 31.16
	Docket # Deliverly	Gross(t)	Tare(t) Net(t)

Printed: 7/04/2009



CHRISTIE CIVIL CONTRACTING P/L

ANNANDALE NSW 2038 LOCKED BAG 1

· Invoice Number:

Invoice Date: 25 Jun 2008 Customer Number: 200117 Cost

CST

Extras

Rate

Net 22.86 24.38 23.90

Qty

Method

Chrg Rate

Product

Approval #

Order No

Time Vehicle

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19/06/2008

EI00386750/1 E100386765/1

19/06/2008

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MT404

12:43

9:40 MT2474-T/D

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9:26

19/06/2008

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Docket

15:02 MT2474-T/D

19/06/2008 19/06/2008

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23/06/2008 23/06/2008

ET00387241/1 EI00387322/1

MT404

23/06/2008

E100387324/1

BY

Total GST

Invoice Total (including GST)

Cnr Mamre & Erskine Park Rds Erskine Park NSW 2759 - PO Box 804 St Marys NSW 1790 Phone: (02) 9834 3411 Fax: (02) 9834 3306 Enviroguard Pty Ltd ACN 060 919 164 Enviroguard Pty Ltd ABN 23 060 919 164

RPT5003.008

COMMUNITY WASTE MANAGEMENT

TAXINVOICE CHRISTIE CIVIL CONTRACTING PIL 3 2 1 JUL (2003 1)

ANNANDALE NSW 2038

Invoice Date: 16 Jul 2008 Customer Number: 200117

	Cost	\
r. 327130	GST	
Invoice Number: 327130	SE.	11.82t
	Rate Extras	17
	Net	23.44 22.54 25.84
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	Product	LLCS
Date Time Vehicle	Approval#	A8144 A8144
<u>.</u>	Order No	7
Time Vehi:	8:20 MT404 10:57 MT404	13:21 MT404
		12/07/2008
Docker	E100390192/ E100390208/1 E10039027/1	

Chr Mamre & Erskine Park Rds Erskine Park NSW 2759 - PO Box 804 St Marys NSW 1790 Phone: (02) 9834-3411 Fex: (02) 9834-3506 Enviroguard Pry Ltd AGN 060-919-164

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ENVINCE GUARD

TAX INVOICE

CHRISTIE CIVIL CONTRACTING PIL.

LOCKED BAG 1

ANNANDALE NSW 2038

2 JUL 2009

Invoice Date: 23 Jul 2008 Customer Number: 200117 Invoice Number: 327189

Cust CST Extras Rate 25.56 24.98 27.12 27.04 27.90 24.72 25.46 28.40 30 32 2764 26.80 26.60 25.74 27.46 27.18 26.72 S. 000 0.00 0.00 000 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0000 Method TONNE FONNE TONNE TONNE TONNE TONNE TONNE TONNE TONNE Chr. Rate ABAC6 ABACE ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABACG ABACS ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ASBCONT Product ASBCONT ASBCONT. ASBCONT ASBCONT ASBCONT ASBCONT Approval# A8178 A8178 A\$178 A8178 48178 A8178 A8178 18178 A8178 48178 AS178 .48178 A8178 A8178 A8178 A8178 A8 78 A8178 A8178 OrderNo 8:19 MT2474-T/D 10:51 MT2474-T/D Vehicle 10,56 MT404-T/D 13.18 MT2474-T/D MT404 14:02 MT404-T/D 15 50 MT2474-T/D JJC601 8 27 M72474-T/O 11:05 MT2474-T/D 13:37 MT2474-T/D JJC601 1613 MT2474-T/D JJC60 8.26 MT2474-T/D 10:50 MT2474-T/D MT404 10.53 MT404-T/D JJC601 AT73LZ JJC601 AT73LZ Time 11:05 4:01 8:12 11.18 11:21 17/07/2008 17/07/2008 17/07/2008 17/07/2008 7/07/2008 17/07/2008 Dare 17/07/2008 17/07/2008 17/07/2008 18/07/2008 18/07/2008 17/07/2008 18/07/2008 18/07/2008 19/07/2008 19/07/2008 19/07/2008 19/07/2008 19/07/2008 19/07/2008 19/07/2008 19/07/2008 E100390754/1 E100390756/1 E100390761/1 E100350813/1 E100390817/1 E100390824/1 E100390879/1 Docker E100390890/1 E10039095371 E100390891/1 E100390924/1 E100391004/1 E100391046/1 E100391075/1 E100391100/1 E100391102/1 E100391105/1 E100391106/1 E10039112371 E10039712471 E100391131/1 100391132/1

Car Mamre & Erskine Park Rds Erskine Park NSW 2759... PO Box 80-4 St Mary's NSW 1790 Phone: (02) 9834-3411 Fax: (02) 9834-3306 Enviroguard Poy 1 of 1000.

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TAX INVOICE

CHRISTIE CIVIL CONTRACTUNG P/I. LOCKED BAG 1

ANNANDALE NSW 2038

Invoice Date: 23 Jul 2008 Customer Number: 200117 Invoice Number: 327189

Cost			
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Extras			
Rate			
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Method	TONNE	TONNE	TONNE
Chrg Rate	ABAC6	ABAC6	ABAC6
Product	ASBCONT	ASBCONT	ASBCONT
Approval#	A8178	A8178	A8178
Order No			
Vehicle	QV7-F4ZTM 61 8 19 002/20/61	AT731.Z	JJC601
Date Time	13 19	08 13:52 AT	13:53
Date	19/07/2008	19/07/2008	19/07/2008
Docket	E100391145/1	E100391146/1	E100391147/1

Cur Mamre & Erskine Park Rds Erskine Park NSW 2759 - PO Box 804 St Marys NSW 1790 Phone: (C2) 9834-3411 Fax: (C2) 9834-3306 Enviroguard Pty Ltd ACM 060-919-164 Enviroguard Pty Ltd ABN 23-060-919-164

RPT5005.008



CHRISTIE CIVIL CONTRACTING P/L LOCKED BAG 1

ANNANDALE NSW 2038

MEGETYLL M 11 AUG 2004

Invoice Date: 06 Aug 2008 Customer Number: 200117

327295 Invoice Number: Cost

GST

Extras

Rate

Net

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Method

Chrg Rate ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6

Product

Approval # A8178

Order No

Vehicle

Time

Docket

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4/08/2008

E100392947/2 E100392938/1

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4/08/2008

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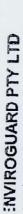
A8178

Invoice Total (including GST)

RPT5003.008

Car Mamre & Erskine Park Rds Erskine Park NSW 2759 - PO Box 804 St Marys NSW 1790

Phone: (02) 9834 3411 Fax: (02) 9834 3306 Enviroguard Pty Ltd ACN 060 919 164 Enviroguard Pty Ltd ABN 23 060 919 164

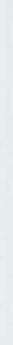


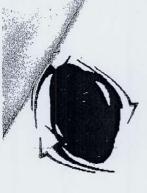
0 QUARRY RD ERSKINE BUSINESS PARK ERSKINE PARK BN: 23 060 919 164

Docket List

rini Date & Time: 29/09/2008 - 8:38:32AM

pproval equals A8178 AND Date equals 26/09/2008





Item Net		28.24 25.44 27.96 23.84 28.52 27.22
Tran Tare		16.32 17.40 16.32 16.32 16.32
Tran Grass		44.56 42.84 44.28 41.24 44.84
Item Otv		100.00 100.00 100.00 100.00
Order No		
App No		A8178 A8178 A8178 A8178 A8178
Product Rate		ABAC6 ABAC6 ABAC6 ABAC6 ABAC6 ABAC6
Vehicle Product	TRACTING P/L	MT2474-T/D ASBCONT JS277 ASBCONT MT2474-T/D ASBCONT JS277 ASBCONT MT2474-T/D ASBCONT JS277 ASBCONT
Docket	CHRISTIE CIVIL CONTRACTING PA	E100400129 E100400135/2 E100400211 E100400248 E100400259
Time		8:31 8:44 11:1 12:1 1:47 1:45 2:35
ate	ustomer:	709/2008 709/2008 709/2008 709/2008

fransactions listed (6 items)

Report End

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Enviroguard

CHRISTIE CIVIL CONTRACTING P/L LOCKED BAG 1

ANNANDALE NSW 2038

COMMUNITY WASTE MANAGEMENT

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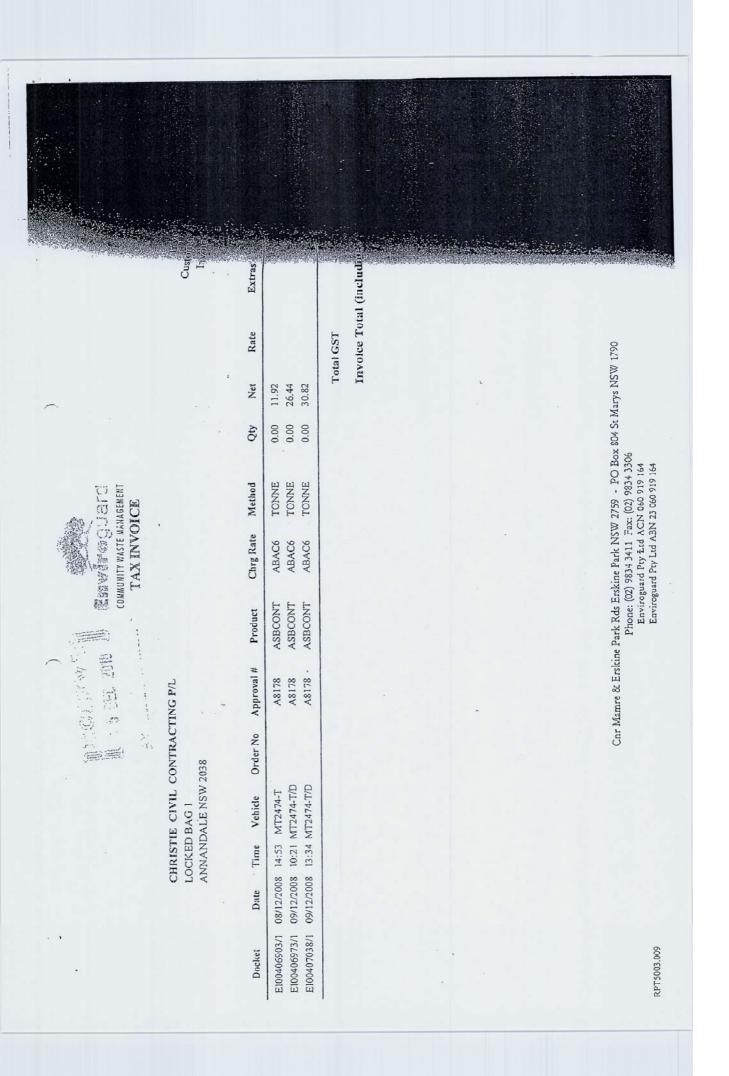
Invoice Date: 08 Oct 2008

Customer Number: 200117 Invoice Number: 327804

Cost						
GST						
Extras						
Rate						
Net	30.36	27.56	30.70	25.50	28.78	26.68
Qty	0.00	00.00	0.00	0.00	0.00	0.00
Method	TONNE	TONNE	TONNE	TONNE	TONNE	TONNE
Chrg Rate	ABAC6	ABAC6	ABAC6	ABAC6	ABAC6	ABAC6
Product	ASBCONT	ASBCONT	ASBCONT	ASBCONT	ASBCONT	ASBCONT
Approval#	A8178	A8178	A8178	A8178	A8178	A8178
Order No						
Date Time Vehicle Order No Approval#	MT2474-T/D	MT2474-T/D	MT2474-T/D	M12474-T/D	MT2474-T/D	M124/4-1/D
Time	8:35	11:37	14:25	8:39	11.26	14:17
Date	01/10/2008	01/10/2008	01/10/2008	02/10/2008	02/10/2008	02/10/2000
Docket	E100400626/1 01/10/2008 8:35 MT2474-T/D	E100400676/1 01/10/2008 11:37 MT2474-T/D	E100400722/1 01/10/2008 14:25 MT2474-T/D	E100400763/1 02/10/2008 8:39 MT2474-T/D	F100400828/1 02/10/2008 11:26 MT2474-T/D	22004006 02/10/2008 14:19 M124/4-1/D

Cnr Mamre & Erskine Park Rds Erskine Park NSW 2759 . PO Box 804 St Marys NSW 1790 Phone: (02) 9834 3411 Fax: (02) 9834 3306 Enviroguard Pty Ltd ACN 060 919 164 Enviroguard Pty Ltd ABN 23 060 919 164

PT5003.009



COMMUNITY WASTE MAHAGEMENT LI ELO DE SERSE TAX INVOICE

CHRISTIE CIVIL CONTRACTING PM 医巴瓦巴区区

8 3 DEC 2018 JU

ANNANDALE NSW 2038

Docket

Invoice Date: 30 Nov 2008 Customer Number: 200117

Invoice Number: 328158

Cost GST Extras Rate Net 20.36 9.84 Qty 0.00 TONNE Method Chrg Rate ABAC6 ABAC6 9.Y. ASECONT ASECONT Approval# . Product A8178 A8178 Order No JJC601-T Time Vehicle JJC501 27/11/2008 15:20 28/11/2008 12:42 Date E100406014/1 EI00406068/1

Invoice Total (including GST) Total GST

T5003.009

Cnr Mamre & Erskine Park Rds Erskine Park NSW 2759 - PO Box 804 St Marys NSW 1790

Phone: (02) 9834 3411 Fax: (02) 9834 3306 Enviroguard Pty Ltd ACN 060 919 164 Enviroguard Pty Ltd ABN 23 060 919 :64

LETTER OF COMPLIANCE



24 June 2009

Document # 461 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D28

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd for the duration of construction period have complied with DA Condition D28, in which any fill material imported to the site has been subject to testing and monitoring throughout the course of the works.

Copies of 'Fill Validation Reports' have been attached for your reference.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager



ABN 62 084 794 762 Tel : (02) 9679 8733 Fax : (02) 9679 8744

20 August 2008

JE08612A-rl

Number 1 Demolition and Excavation 3 Burroway Road, HOMEBUSH BAY NSW 2127

Attention: Mr Nasser Matta

Dear Sir

Re

FIII Validation Report 25 Ray Rd, Epping HTTERLIFL IMPORTED

20

24 00 08

1. Introduction

As requested, the site was visited by our environmental technician on the 20th August 2008. The excavation works will result in surplus fill material required off-site disposal.

The purpose of the site visit was to assess the subsurface ground condition and to evaluate the status of the surplus fill material.

2. Site Description

The property comprised an irregular shaped area with dimensions and with access off Ray road to the Lenna Place to the north east.

The property is situated on gently undulating terrain. Based on the 1:100,000 geological map of Sydney, the property is underlain by Hawkesbury Sandstone. The sandstone typically comprises medium to coarse grained quartz sandstone with very minor shale and laminate lenses.

There were no obvious signs of gross ground contamination in the form of standing, discolouration and odour on site.

3. Subsurface condition

To aid assessment of subsurface conditions, two test pit (TP 1 & TP 2) was excavated to a depth of about 1.8 m below existing ground surface using an excavator. The indicative test location is shown on the attached Drawing No 1.

The test pits revealed a subsurface profile consisting of natural ground. The following is a summary of subsurface profile encountered on the test pit.



Test No	Depth (m)	Description
TP 1	0.0 - 0.2	Top soil: Clayey Silt: low liquid limit, dry to moist
	0.2 – 1.2	Natural Silty Clay: high plasticity, brown with some ironstone gravel. Moisture content approximately less than or equal to the plastic limit
	1.2 – 1.85	Sandstone: medium to coarse grained quartz sandstone with very minor shale and laminate lenses
	0.0 - 0.15	Top soil: Clayey Silt: low liquid limit, dark grey brown with some roots, dry to moist
TP 2	0.15 - 1.2	Natural Silty Clay: high plasticity, brown with some ironstone gravel. Moisture content approximately less than or equal to the plastic limit
	1.2 – 1.8	Shale/Sandstone: extremely to distinctly weathered, drak grey with come clay bands, medium to coarse grained quartz sandstone and laminate lenses
	1	

4. Comments and Assessment

Based on information obtained from the test pit, the site is underlain by topsoil over natural medium to high plasticity Silty Clay over dark grey Shale/Sandstone. The natural Silty Clay and Shale/Sandstone appeared clean with no obvious signs of contamination.

Based on our visual assessment, the natural Silty Clay and Shale/Sandstone fit the Department of Environment and Conservation (DEC) Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes (1999) description of "Virgin excavated natural material" (VENM) and is therefore considered suitable for reuse on other sites with the most sensitive landuse such as residential.

The above classification is applicable subject to the following:

- The material consists of brown/grey medium to high plasticity Silty Clay and dark grey Shale/Siltstone.
- The material is not mixed with any other filling, topsoil, building rubbled/demolition waste or other material with obvious signs of contamination
- The material appeared clean with no obvious signs of contamination in the form of staining, odour and discolouration.

If you have any questions regarding the above, please contact the undersigned.

Yours faithfully GeoEnviro Consultancy Pty. Ltd.

Solerm Liew CPEng Director

immary Profile

Spall Earthmoving Pty Limited 3 Careden Ave BEACON HILL NSW 2100

Attn: Mark Spallvlero

JJECT: Name: VENM Determination

Location: 71 Undercliff Road, Freshwater SESL Quote N°: Client Job N°: Order N°: Date Received: 09/07/2008

SAMPLE: Batch N°: 7084

Sample N°: 1

Name: Report Only Test Type: Report



AS/NZS ISO

9001-2000

QEC 21650



Environmental and Soil Laboratory

Tests are performed under a quality system certified as complying with 130 9001; 2000. Results and conclusions sesums that sampli is representative. This document shall not be

Sydney Environmental & Soil Laboratory Pty Ltd

ABN 70 106 810 708

16 Chilvers Road Thomleigh NSW 2120

Australia

Address mail to: PO Box 357

Pennant Hills NSW 1715

Tel. 02 9980 6554

Fax: 02 9484 2427 info@sesl.com.au Em:

Web: www.sesl.com.au

Total No Pages: 1 of 1

Virgin Excavated Natural Material Certificate

Sydney Environmental & Soil Laboratory Pty. Ltd. (SESL) carried out a visual inspection of the above site on the 08/07/08 for the purpose of determining the likely quality of natural subsurface material to be excavated. The site is located on the southern side of Undercliff Road, Freshwater. The previous residential dwelling had been demolished at the time of inspection, and the site was being prepared for bulk excavation of natural clay and sandstone materials.

Virgin Excavated Natural Material (VENM) is natural material (e.g. clay, gravel, sand and rock) not mixed with with any other waste that has been excavated from areas, and specifically not natural soil material that is contaminated, as a result of industrial, commercial, mining or agricultural activities, with manufactured chemicals and does not contain sulphidic ores or soils.

The sub soil strata observed at this sample location is typical for Gymea soil landscape as part of the Hawkesbury Sandstone formation. Occurrences are common in the Hornsby Plateau and foreshore regions according to Sydney Soil Landscape Series Sheef 9130 (Soil conservation Service of NSW, 1989). The minor overlying top soil and vegetation materials are the most likely burst explaining according to provide the formation of the provide plate. layer containing contaminates from previous land use.

On the basis of this visual inspection, and in accordance with the NSW DECC's Waste Classification Guidelines Part 1; Classifying Waste (DECC, 2008), the layers of white/grey clay/shale, grey plastic clay, pale grey/white sandy clay to bedrock orange/red/yellow sandstone material on site is classifiable as VENM (not mixed with rail ballast, topsoil, under slab fill layer material, concrete, bricks, terracotta tiles and pipes). When this material is stockpiled, it must be controlled and not mixed with soil material from other sources for this certificate to remain valid.

The VENM validation report therefore applies to the naturally occurring clay and sandstone materials at this sample location subject to the following conditions:

- The excavated materials of concern comprise of white/grey clay/shale, grey plastic clay, pale grey/white sandy clay through to bed rock Hawkesbury sandstone material; and
- The natural materials are not mixed with or contain miscellaneous filling, topsoil, rail ballast, building/demolition waste or material which bears obvious signs of contamination such as staining, discolouration or odours.

Note: The findings of this report are the result of discrete/specific methodologies used in accordance with normal practices and standards. To the best of our knowledge, they represent a reasonable interpretation of the general condition of this site and do not represent the actual state of the site at all points. If the sandstone material as described is to be used as clean fill on a residential or commercial/industrial site, laboratory analysis should be included to confirm the suitability of the material for use at the proposed disposal site. Should materials or conditions be encountered other than those which have been described these will require additional assessment. require additional assessment.

Ryan Jacka

Date of Report: 09/07/2008

Authorised Signatory:

Murray Fraser

SewerFix

WATER

Memorandum

DATE 30 May 2008
TO Delivery Team (SewerFix Wet Weather Alliance); CMS Group
FROM Jo Heltborg (Environment Leader, SWWA)
SUBJECT Spoil Waste Classification: NB 2.4 Collaroy

This memo provides details regarding the waste classification of spoil to be excavated from Anzac Avenue and Anzac Avenue Reserve, Collaroy.

The construction of new Sydney Water sewerage system assets will involve approximately 66m of microtunnelling and 8m of trenching within the road reserve of Anzac Avenue and the grassed area of Anzac Avenue Reserve.

Open trenching will start from the existing maintenance hole in Anzac Avenue Reserve and extend approximately 40 metres to the microtunnelling jacking shaft (also within Anzac Avenue Reserve). Approximately 15m³ of spoil is anticipated to require offsite disposal from this section.

Microtunnelling will start within Anzac Avenue Reserve and extend to the end of the works, south of the intersection with Hendy Avenue (approximately 66m in length).

- Approximately 10m³ of spoil is anticipated to require off site disposal from excavation of the
 microtunnelling launch pit (Anzac Avenue Reserve) given that the majority of spoil will be reused to
 backfill the launch pit at the completion of works. Spoil will be temporarily stockpiled at the SWWA
 Beacon Hill site depot.
- Approximately 60m³ of spoil is anticipated to require off site disposal from the excavation of the microtunnelling recovery shaft in Anzac Avenue.
- Approximately 80m³ of slurry is anticipated to require off site disposal from micro-tunnelling works.

One borehole was drilled at a location along the proposed pipeline route:

BH7 was located on the 'entry driveway' to Anzac Avenue Reserve, adjacent to the intersection of Hendy Av and Anzac Av. A copy of the borehole log sheet is attached for information. In summary, the geological profile encountered consisted of the following.

- o Topsoil (0.0-0.2 mbgl)
- o Alluvial soil (0.2-0.9 mbgl)
- o Residual soil (0.9-4.10 mbgl)
- o Sandstone bedrock (4.10 mbgl)

The following waste management actions are to be implemented during construction works:

Topsoil and turf/grass: all topsoil and turf/grass is to the stockpiled separately and not mixed with any other spoil. This material is to be reused when restoring the site.

Asphaltic road paving and associated road base: is pre-classified as INERT WASTE by the EPA (1999)

P1_MM 2008-05-30 Collaroy

Page 1 of 3

Waste	Inert	1		No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa		
Classification	mert	Inert	Inert	Inert	Inert	Inert
	la de la companya de	3		1		

Based on field observations (refer to attached log sheets) and the analytical results (summarised above), the fill, beneath the turf/topsoil in Anzac Reserve is considered INERT WASTE.

Based on field observations (refer to attached log sheets) and the analytical results (summarised above), the fill, beneath the roadbase in Anzac Avenue and overlaying natural ground is considered INERT WASTE.

A copy of the laboratory report (Envirolab Services, Certficate of Analysis 18503) is attached for information purposes.

Sandstone bedrock: sandstone bedrock was encountered at approximately 3.5 mBGL during excavation of the microtunnelling recovery pit. Based on the observations made, the layer of material directly below the fill material is considered VIRGIN EXCAVATED NATURAL MATERIAL (VENM).

Micro-tunnelling slurry: This material will consist of sandstone (VENM) and potable water. This material is to be removed from site by vacuum truck and disposed of to a material recycling facility.

RE-USE OF SPOIL BY McCOURT DANDO CIVIL

The laboratory results were reviewed for potential reuse of excavated spoil. There were no exceedences of the health based investigation levels as presented in DEC (2006)

Contaminated Sites Guidelines for the NSW Site Auditor Scheme (2nd edition) for the following landuses:

- a) Residential with gardens and accessible soil (home grown produce contributing <10% fruit and vegetable intake; no poultry), including children's daycare centres, preschools, primary schools, townhouses, villas (NEHF A)
- b) Residential with minimal access to soil including high-rise apartments and flats (NEHF D)
- c) Parks, recreational open space, playing fields including secondary schools (NEHF E)
- d) Commercial or Industrial (NEHF F)

Based on the analytical results the following beneficial re-use options are approved:

- Beneficial reuse of NB2.4 Collaroy spoil by McCourt Dando at their Hornsby Rail Project
- Beneficial reuse of NB2.4 Collaroy spoil at Duffys Forest residential redevelopment (4 Namba Road, Duffys Forest, DA2002/81SC)

If you have any questions relating to this waste classification memorandum please contact the SWWA Environment Leader – Jo Heltborg on (02) 8437 2510 or 0414 554 277 or jo.heltborg@sydneywater.com.au.

P1_MM 2008-05-30 Collaroy



ENVIRONMENTAL INVESTIGATION SERVICES

FAX MESSAGE

ATTENTION: Clinton McKinnon

EIS JOB No: E22001K let

OF:

Attcall Plant Hire and Haulage

DATE: 12 March 2008

FAX No:

(02) 4847 0560

PAGE: 1 of 20

FROM:

Andrew Roberts / A Kingswell

RE:

VENM CLASSIFICATION

PROPOSED CARPARK DEVLEOPMENT

TARONGA ZOO, BRADLEYS HEAD ROAD, MOSMAN

At your request we have sampled the natural sandstone at Taronga Zoo, Bradley's Head Road, Mosman to provide an indication of the suitability of the soil for offsite disposal at the former Boral brickpit located at Moorebank. Three surface samples were taken from exposed natural sandstone at the site.

The sandstone sample references were SS1, SS2 and SS3 and were light yellow brown, medium to coarse grained sandstone. A sketch plan of the sample locations is attached (Figure 1).

At the time of inspection the site was completely cleared of all buildings and related infrastructure. The 1943 aerial photograph appeared to show the site occupied by a carpark and vacant land.

The presence of several small stockpiles of fill soil in the centre of the site and a cover of fill material and asphalt in the southern and west section of the site was noted during the field work. Analysis of this fill material was outside the scope of work for this project. This material should be removed and disposed off separately in an appropriate manner prior to commencement of excavation works for the off-site disposal of the virgin soils.

The Prospect/Parramatta Acid Sulfate Soll Risk Map (Department of Land and Water Conservation December 1997, Edition Two, 1:25,000) indicates that the site is located within an area of no known occurrence of acid sulfate soil.

Samples were analysed for heavy metals, polycyclic aromatic hydrocarbons, organochlorine pesticides, PCBs, total petroleum hydrocarbons and BTEX compounds. The results are contained in Envirolab Report 17616 (attached).

The laboratory results have been assessed with comparison to the importation criteria for VENM material specified in the Environmental Management Plan for the Rehabilitation of Quarry Pits at Boral Quarry, Nuwarra Road, Moorebank. The laboratory results confirm the field observations that the sandstone sampled were Virgin Excavated Natural Material (VENM). The VENM must not be mixed with any fill material (including

> Principal: B H Flatoner 89c (Ing) M9 115 WICKS ROAD, MACQUARIE PARK NSW 2113 . TEL: 02 9888 5000 . FAX: 02 9858 5004 POSTAL ADDRESS: PO BOX 975, NORTH RYDE BC NSW 1870

EIS IS A DIVISION OF JEFFERY & KATAUSKAS PTY LTD . ABN 17 003 550 801

-2-



building rubble), as this will invalidate the VENM classification. The fill must be separated from the VENM prior to disposal.

This letter and the limited sampling and analyses contained therein should not be construed as a site contamination report and it does not meet the NSW EPA requirements in relation to a full site assessment.

In the event that odorous conditions are encountered during excavation of the material EIS should be called to assist you with appropriate site assessment.

Section 143 of the *Protection of the Environment Operations Act 1997* states that if waste is transported to a place that cannot lawfully be used as a waste facility for that waste, then the transporter and owner of the waste are each guilty of an offence. The transporter and owner of the waste have a duty to ensure that the waste is disposed of in an appropriate manner. EIS accepts no liability whatsoever for the unlawful disposal of any waste from any site.

The samples taken for the investigation have enabled an assessment to be made of the existence of significant, large quantities of uncontaminated natural soil and shale bedrock. EIS adopts no responsibility whatsoever for any problems such as underground storage tanks, buried items or contaminated material that may be encountered between sampling locations at the site. The proposed construction activities at the site should be planned on this basis, and any unexpected problem areas that are encountered between sampling locations should be immediately inspected by experienced environmental personnel. This will ensure that such problems are dealt with in an appropriate manner, with minimal disruption to the project timetable and budget.

The findings presented in this letter are based on site conditions that existed at the time of the assessment and subsequent remediation. The conclusions are based on the investigation of conditions at specific locations, chosen to be as representative as possible under the given circumstances.

This letter has been prepared for the particular project described and no responsibility is accepted for the use of any part of this letter in any other context or for any other purpose. Copyright in this letter is the property of EIS. EIS has used a degree of care, skill and diligence normally exercised by consulting engineers in similar circumstances and locality. No other warranty expressed or implied is made or intended. Subject to payment of all fees due for the investigation, the client alone shall have a licence to use this letter.

-3-



If you have any questions concerning the contents of this fax please do not hesitate to

Yours faithfully ENVIRONMENTAL INVESTIGATION SERVICES

Andrew Roberts **Environmental Scientist**

AJ Kingswell Associate

Attachments:

Figure 1: Sketch plan of sampling locations
 Detailed laboratory data 17616

3. Chain of Custody form.

. 64. 60, 7660 TD: 4T R724784222

* ABSOLUTE CONTRACTING

PAGE 02/04

9.MAY.200B 16:04

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NO.725 P.1/3



ACN 063 579 3 13

Environmental Services - Remediation - Georgeomical Engineering - Drilling

9th May 2008 Our Ref: E2232

Mr Phil Circosta Absolute Contracting PO Box 749 NORTH RYDE NSW 1670 By Facsimile: 9428 4555 pp 1 of 3

Dear Phil,

Re: Soil Classification 2-4 Sturt Place, St Ives NSW

Aargus Pty Ltd was appointed by Mr Phil Circosta of Absolute Contracting to conduct a soil classification of natural soil to be excavated from 2-4 Sturt Place, St Ives, NSW ("the site").

To assess the waste classification of materials to be disposed off-site, the NSW EPA refers to the NSW EPA (1999) Environmental Juidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes.

Aargus staff visited the site on 9th May 2008, at which time the previous two residential buildings had been demolished. Approximately 10,000 m³ of natural soil will be transported off-site. This soil classification refers to the natural underlying soil from the site only. The natural underlying soil in question is classified as VENM (Virgin Excavated Natural Material) with reference to the above NSW EPA guidelines. As a result of this classification the material can be disposed of as per Schedule 1 Part 3 of the Protection of the Environment Operations Act 1997.

Aargus Pty Ltd Telephone: 1300 137 038 Pacsimile: 1300 136 038 Website: www.aargus.net

NSW: PO Box 398 Drummoyne NSW 2047 QLD: PO Box 1340 Fortindo Valley QLD 4006 VIC: Unit 3/21-23 Beverage Drive Tullamarine VIC 3043

ABSOLUTE CONTRACTING 04/00/2008 15:41 0294284555 PAGE 93/94 9.MAY.2008 16:05 0294284555

May 2008 Environmental Soil Classification, E2232 Size: 2-4 Sturt Place, St Ives NSW

NO.725 P.2/3

page 2 of 3

As part of this soil classification, Aargus undertook a walkover of the site and took into consideration the following points where applicable:

- Description and quality of the building structure & materials;
- Current operations;
- Waste Management Practices & trade waste;
- Above ground storage tanks;
- Underground Storage Tanks;
- Odours;
- D Site vegetation & sealed surfaces:
- Historical operations (if known);
- Former raw materials & transportation (if known);
- Surface water; .
- Groundwater (if known); and
- Site Surrounding and their operations.

From inspection of the above details, information was gathered with regards to the property.

The Geological Survey of NSW, Department of Mineral Resources (1983) Sydney 1:100,000 Geological Sheet 9130 shows the site is underlain by Ashfield Shale of the Wianamatta Group characterised by black to dark-grey shale and laminite.

The soil profile at the site was TOPSOIL, SANDY-LOAM, dark-brown, dry to 0.3m below ground level (BGL); overlying NATURAL, MEDIUM CLAY, orange-brown to approximately 2m (BGL) followed by red-brown clay down to a depth of 3.5m (BGL). It is anticipated that this profile will continue down to natural shale at a depth of 5m (BGL). It is estimated approx. 10,000 m3 natural soil will be transported off-site.

The site was previously occupied by two residential dwellings and is to be redeveloped for medium-density residential land-use (approx 33 units) with a basement car park.

No USTs or ASTs were visible. No staining or odours were visible at the time of the inspection. There was no evidence of localised pil or chemical spills on any sealed or unscaled areas and this issue does not warrant any concern. Trees and shrubs surrounding the site appeared generally healthy and free from stress. No visible fibro pieces were observed and this issue does not warrant any particular concern.

The site was bordered to the north by Sturt Place and thereafter low-density residential dwellings, to the east by Mona Vale Road and thereafter low-density residential, to the south by low-density residential and to the west by high-density residential.



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* ABSOLUTE CONTRACTING

PAGE 04/04

9.MAY.2008 16:05

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NO.725 P.3/3

May 2008

Environmental Soil Classification, E2232 Site: 2-4 Start Place, St Ives NSW

page 3 of 3

With reference to previous land use, the nature of land use in the immediate area and a site inspection of surface and underlying soils, the inspected natural soil from the subject property is classified by NSW EPA criteria as VENM or natural clean residual soils.

If any further areas of environmental concern are uncovered during the excavation process, this office should be notified for further assessment.

It should also be noted that the soil at the site could be reused at sites with similar land use providing soil at the site meets guidelines described in NSW DEC. (2006) Guidelines for the NSW Site Auditor Scheme. To confirm this further assessment in accordance with applicable regulatory guidelines, including sampling and analysis, would be required.

We would be pleased to provide further information on any aspects of this report.

For and behalf of Aargus Pty Ltd

Con Kariotoglou Project Manager Reviewed By

Mark Kelly

Senjor Environmental Geologist





NDEL ARNOLD & ASSOCIATES PTY LTD
ABN. JE 005 318 018
Level 2, 11 Khartoum Road,
North Ryde, NSW 2113 Australia
Phone: (02) 9889 1800
Fax: (02) 9889 1811
Email: ydnry@noel-arnold.com.au
www.noel-arnold.com.au

Date:

Friday 18 July 2008

Attention:

David Rix

Company:

ADCO Constructions Pty Ltd

85 Alexander Street

Crows Nest, NSW 2065

Report Name:

Insitu Waste Classification

NAA Reference:

SA0194:67174

Site:

7-11 Manns Avenue, Neutral Bay NSW

Material Identification:

Lower Layer - Natural Sands, Clays and Sandstone

Location on Site:

Southwestern Car Park Area

Area / Volume:

Not Determined

Number of Samples:

1101 2010111111

3

Date Sampled:

16 July 2008

Analytes:

TPH;

PAH;

= BTEX; &

Heavy Metals.

Assessment Criteria:

The visual and analytical results are compared to published guidelines from the NSW Department of Environment & Climate Change (DECC) document Waste Classification Guidelines, 2008.

Visual Asbestos:

None observed in field work

Odours and Staining:

None observed

Chemical Classification:

Virgin Excavated Natural Material

Disposal Classification:

Virgin Excavated Natural Material

Please refer to Appendix A for Summary Soil Tables with Criteria and Appendix B for NATA Certified Analytical Results.

Yours sincerely

NOEL ARNOLD & ASSOCIATES PTY LTD

NICK PASSLOW

Environmental Consultant

a Melbourne a Sydney a Canberra a Brisbane

Practical Solutions





D:27, E:33, E:34



4th August 2009

DL1995

Mr Terry Edwards Southern Cross Constructions Pty. Ltd. 135-153 New South Head Road Edgecliff NSW 2027

Dear Mr Edwards

Re: Asbestos and Acid Sulphate Soils (ASS) Management completion advice

David Lane Associates (DLA) was commissioned by Southern Cross Constructions to provide advice on and oversee the management of asbestos contaminated soils, Acid Sulphate Soils (ASS) and any required dewatering for the project identified as Warriewood Brook - Stage 1 at 6 - 14 Macpherson Street, Warriewood NSW.

Asbestos remediation was undertaken in accordance with the Remediation Action Plan (RAP) produced by P. Clifton & Associates dated April 2007. Remediation works commenced in March 2008 by locating and removing the hot spot and surface contamination identified in the RAP. Clearance inspections were undertaken and an unexpected finds protocol put in place for the remainder of works on the Site.

Eleven instances of unexpected finds have been recorded since March 2008 resulting all known Asbestos Contaminated Soil being removed from the Site. Areas excavated to remove asbestos were inspected subsequent to the removal process and sampled to allow clearance certification to be issued in accordance with Part 11; "Clearance to Reoccupy an Asbestos Work Area" of the NOHSC: 2002 Code of Practice for the Safe Removal of Asbestos - 2nd Edition 2005... All waste material was classified and disposed of in accordance with the DECC 2008, Waste Classification Guidelines.

> SYDNEY Unit 2B 30 Leighton Place, Hornsby NSW 2077 P 9476 1765 F 9476 1557 E dlassociates@bigpond.com NEWCASTLE PO Box 137, Branxton NSW 2335 P 4938 3800 F 49383811 E dolane@bigpond.com





Excavations on the Warriewood Site were primarily limited to fill materials with limited potential for Acid Sulphate production. At no stage has field testing, conducted in accordance with the ASS Management Plan (GHD, 2005), indicated the presence of Potential or Actual ASS. Regular monitoring of discharge water has indicated a neutral or slightly basic trend to the groundwater being discharged, providing further evidence that ASS was not encountered during excavation.

It is the opinion of DLA that further monitoring of the groundwater is not required as no impact was discernable on the local hydrogeology. DLA is satisfied that works on the Site have been conducted in accordance with both the ASS Management Plan (GHD, 2005) and the Asbestos RAP (P. Clifton & Associates, 2007).

Yours Faithfully

DAVID LANE ASSOCIATES

David Lane

Director

DAVID LANE ASSOCIATES



23 June 2009

Document # 459 File Code: ARV-5 / 3707

Steve Watson & Partners Level 5, 432 Kent St

SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D22

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd for the duration of construction period have provided and maintained a traffic Management Plan for vehicles and pedestrians on site. These have been documented throughout the project and have been attached for your reference.

Please contact me should you have any questions.

Regards,

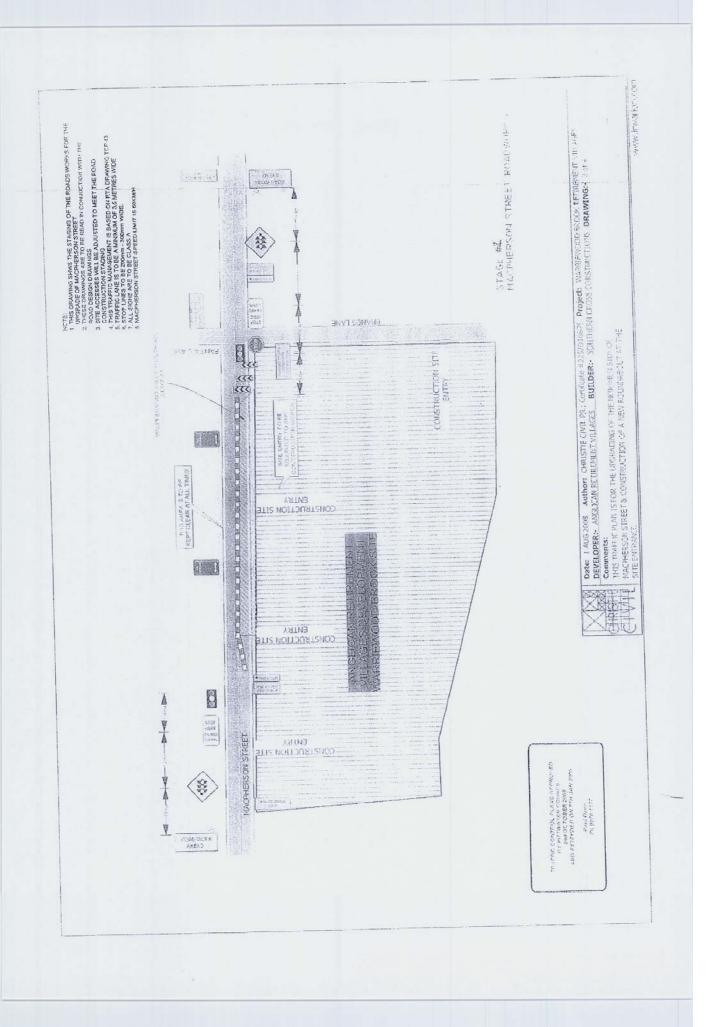
Southern Cross Constructions (NSW) Pty Ltd

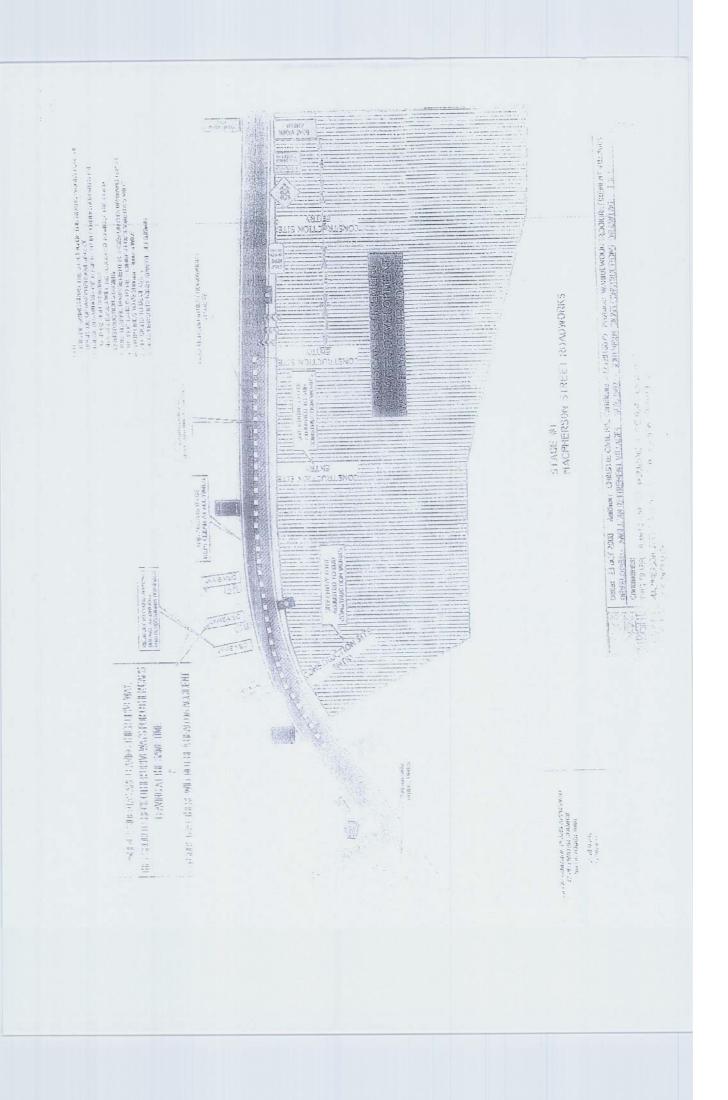
Terry Edwards Project Manager

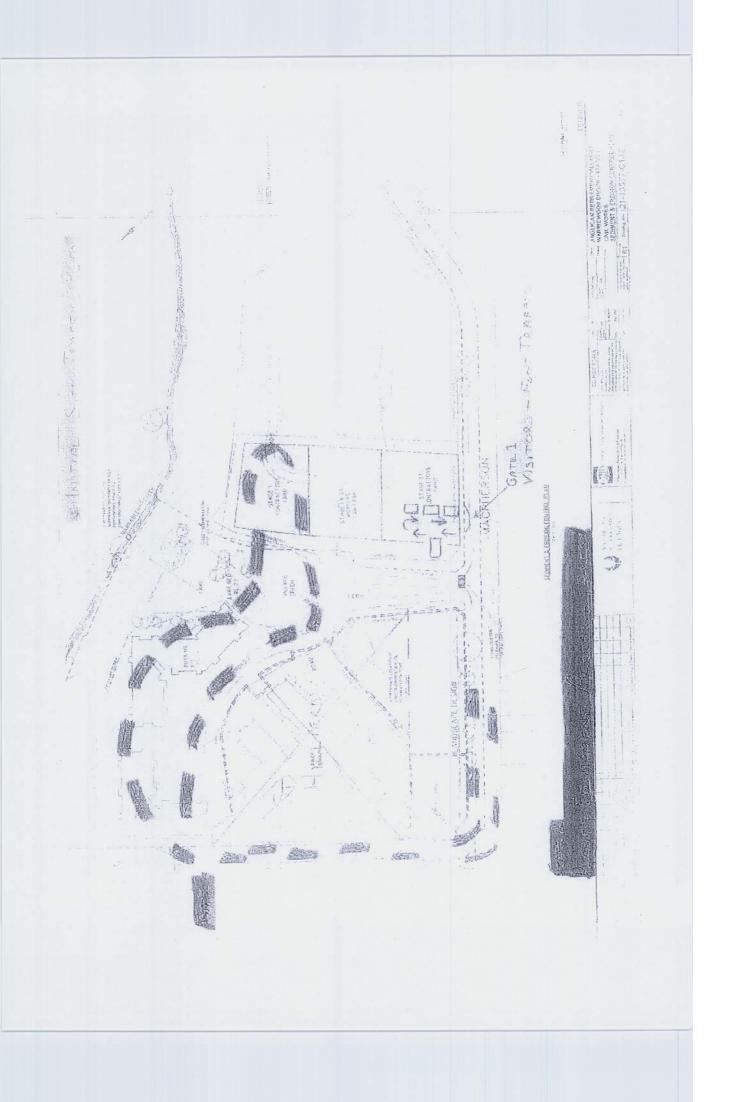
Southern Cross Constructions (NSW) By Lis.

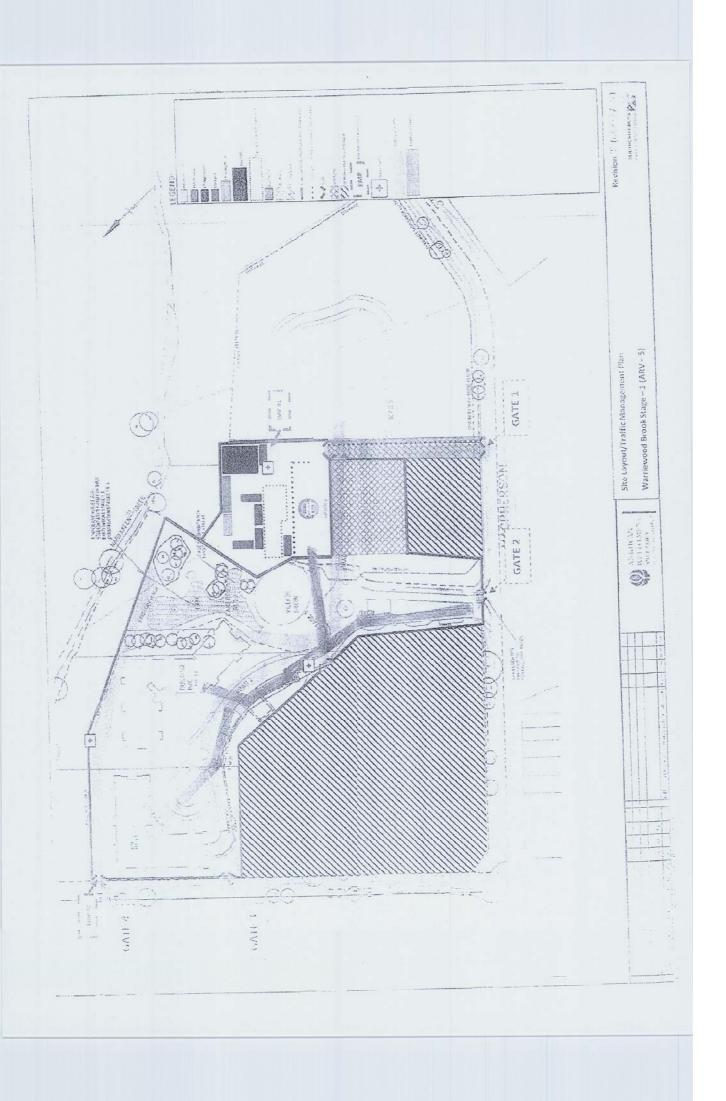
135-153 New South Head Road Edgeoif NSW 2027 TeHIZ 9363 1111 Fax 02 9363 3011 Emailisco@southerncrossgroup net

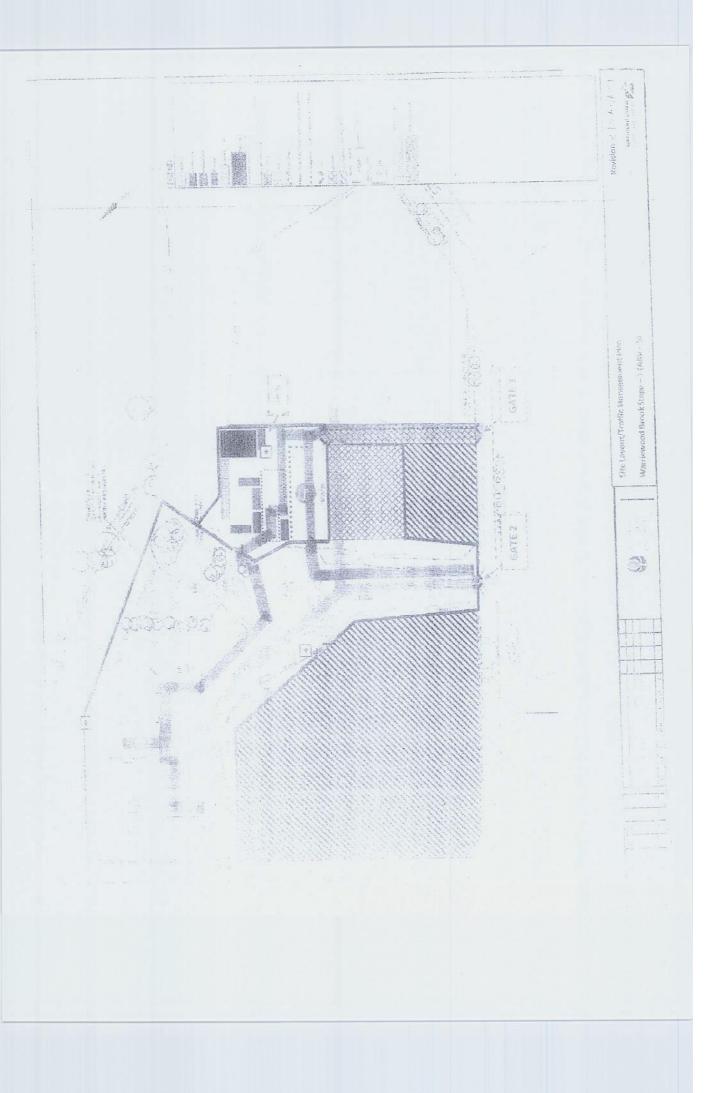
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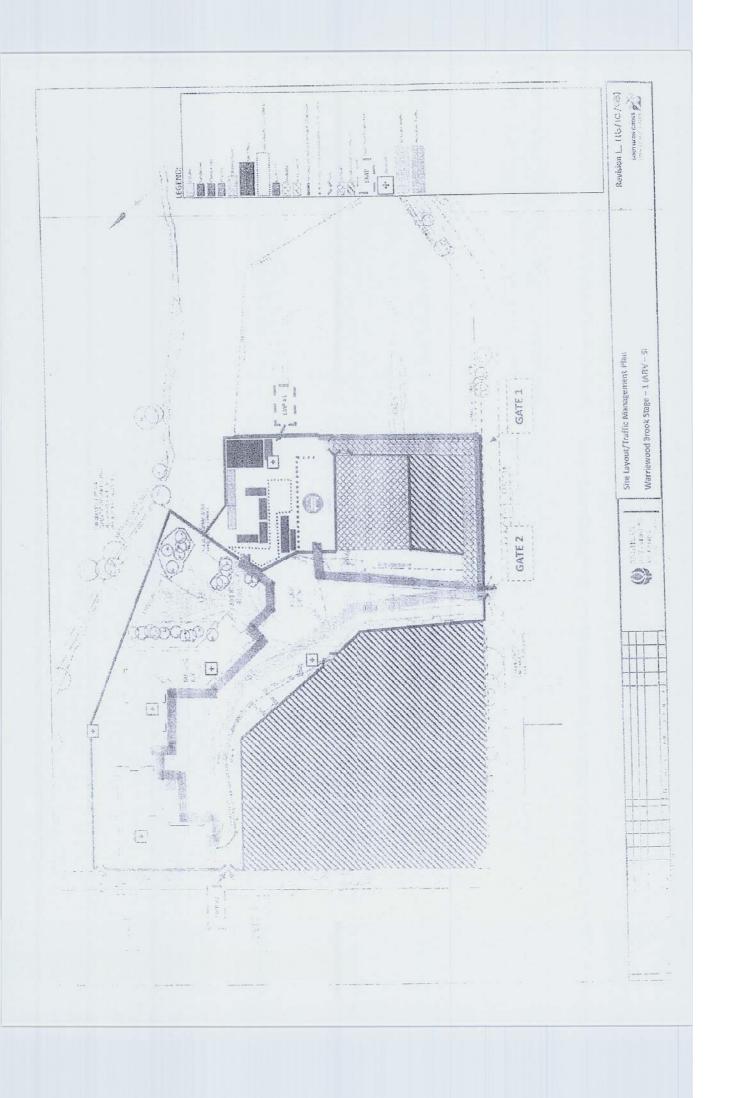


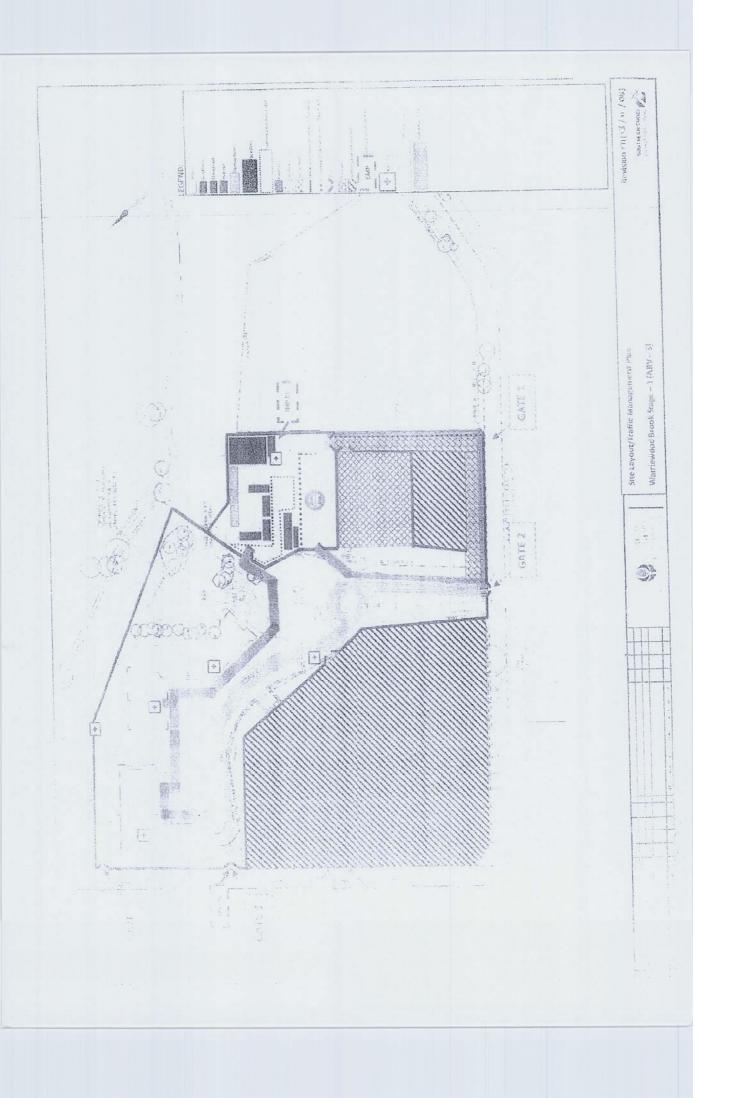


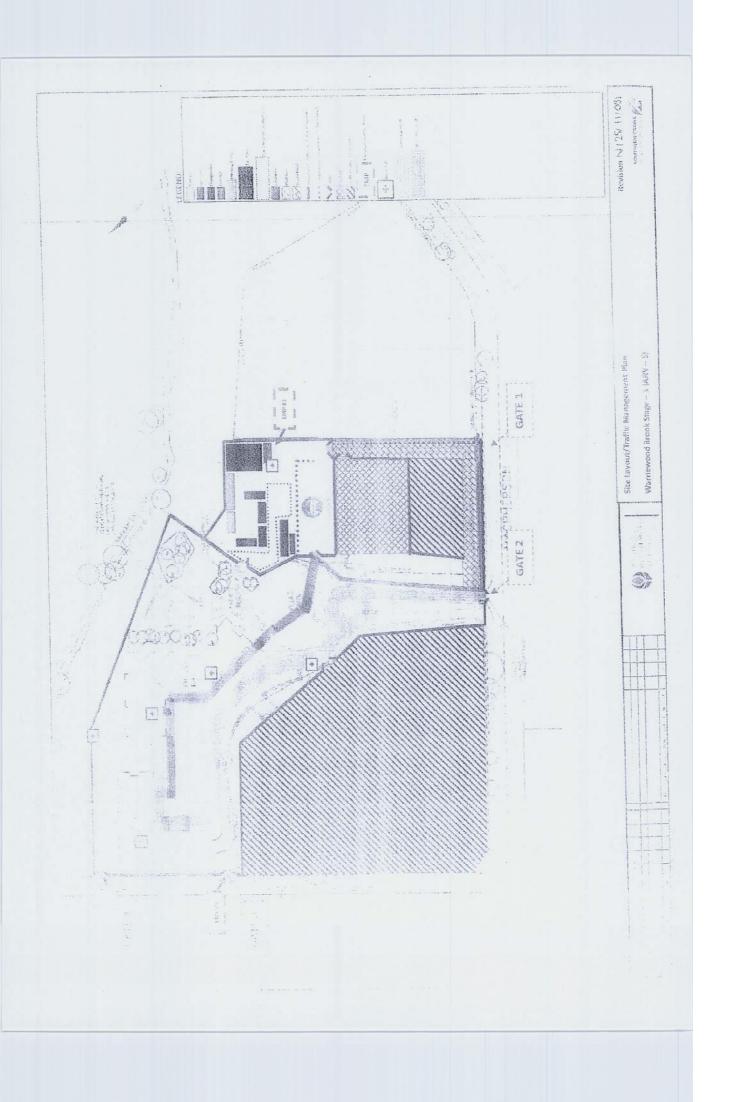


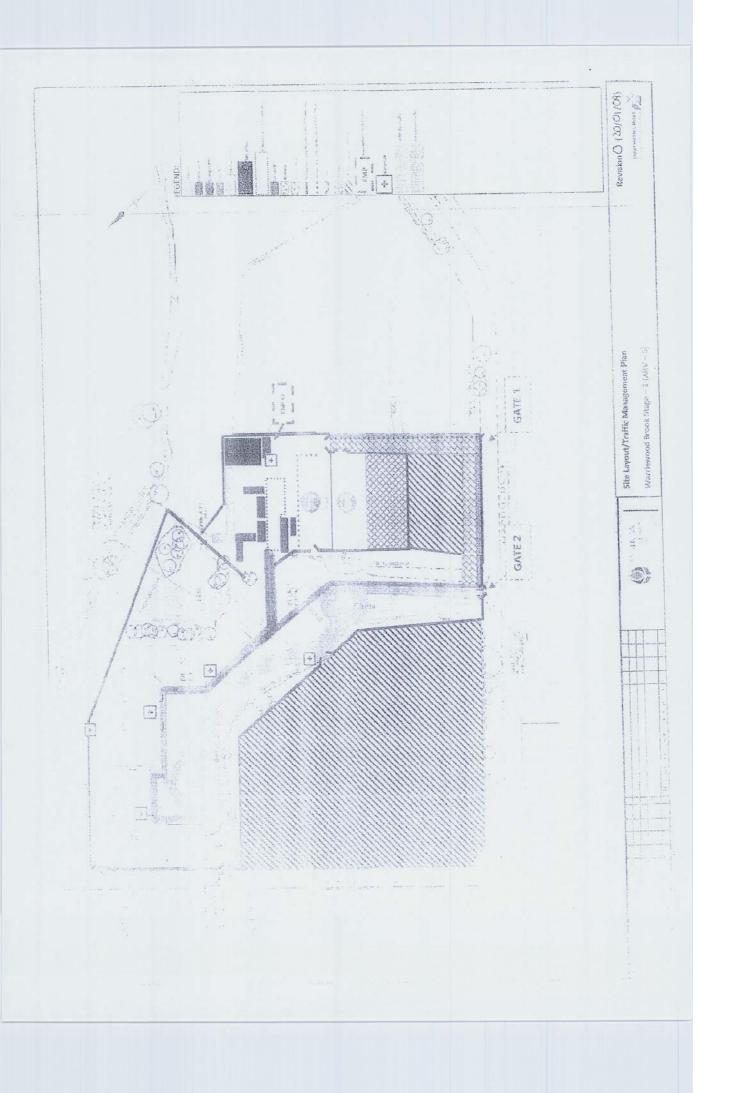


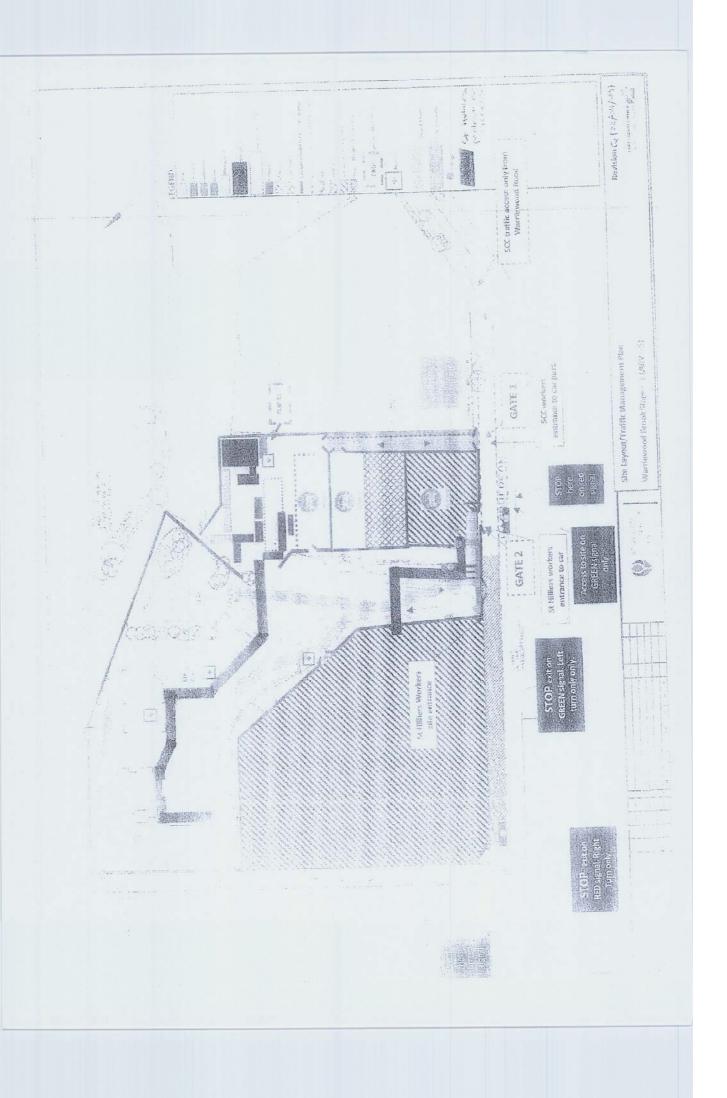














23 June 2009

Document # 457 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D13 + D12.

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd for the duration of construction period have provided and maintained a clay removal system for vehicles leaving the site consisting of wash down bays with cattle grids to satisfy DA condition D12.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager



Case No. 115890 Stage 1

SUBDIVIDER/DEVELOPER COMPLIANCE CERTIFICATE

(A certificate under Division 9 Section 73 of the Sydney Water Act, 1994)

		DESCRIPTION OF SUBDVISION/DEVELOPMENT			
Council	Pittwater Counc	cil			
Street	6 – 14 Machperson Street, Warriewood STAGE 1				
Property	Lot B DP 400488, Lot A DP 400488, Lot 22 DP 5464, Lot B DP 358765, Lot A DP 358765, Pt Lot B DP 345528, Pt Lot 1 DP 208149, Pt Lot DP 579309, Pt Lot 3 DP 942319 & Pt Lot				
Development		Demolition Of Existing Structures & Stage 1 Covering Construction Of Buildings A, B & C For 64 Independent Living Units.			
NAME OF APPLICANT		Anglican Retirement Villages			
APPLICANT'S ADDRESS		C/o Bowdens Group Australia P/L P.O. Box 387 PARRAMATTA NSW 2124			

Sydney Water Corporation certifies that the above named applicant has complied with the requirements, relating to the plan of Subdivision/Development described above, of Division 9 of the Sydney Water Act, 1994.

THE FOLLOWING ITEMS 2 AND 5 APPLY TO THE DEVELOPMENT:

- Water facilities are to be previded as a result of the subdivider/developer's compliance with Sydney-Water's
- Water facilities are available.
- -Water-facilities cannot be provided within a reasonable time-from the date of this certificate.
- Sewerage facilities are to be provided as a result of the subdivider/developer's compliance with Sydney Water's requirements.
- Sewerage facilities are available.
- Sowerage facilities are under the centrel of the local council.
- Sewerage facilities cannot be provided within a reasonable time from the date of this certificate.
- Sydney Water's requirements for future subdivision of this dual occupancy development have NOT been met-On subdivision an additional cortificate will be required.

THE FOLLOWING ITEMS AND APPLY TO LOT/S IN THE DEVELOPMENT;

- Water facilities have NOT been provided. They will only be provided after compliance with Sydney Water's requirements placed on a future applicant for subdivision/development or connection.
- 10. Sewerage facilities have NOT-been provided. They will only be provided after compliance with Sydney Water's requirements placed on a future applicant for subdivision/development or connection.
- 11. Sewerage facilities are under the control of the local council.

Council Reference No. DAN0102/05 Applicant Reference No. 7199/Mcphn6-14 Staged Development Signature Tracy Sutherland Name (Approving Officer for and on behalf of Sydney Water) Signature Brian Malligan Name (Approving Officer for and on behalf of Sydney Water) 6th August 2009 Dated: Developer Asset Services Head Office

THIS CERTIFICATE IS ONLY VALID WHEN SIGNED BY TWO AUTHORISED SYDNEY WATER OFFICERS A signed copy is held by Sydney Water

The original of this certificate must be presented to the appropriate consent authority, usually Council, with which the plan of subdivision/development was lodged so that you can satisfy the relevant condition of consent.

Sydney Water Corporation ABN 49 776 225 038 1 Smith St Parramatta 2150 | PO Box 399 Parramatta 2124 | DX 14 Sydney | T 13 20 92 | www.sydneywater.com.au Delivering essential and sustainable water services for the benefit of the community



23 June 2009

Document # 456 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D12

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd have provided and maintained an all weather access way at the front of the property consisting of 50-75mm aggregate in accordance with DA condition D12.

Please contact me should you have any questions.

Regards,

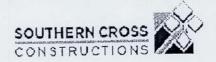
Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager

Southern Cross Constructions (NSW) Pty Ltd

135-153 New South Head Road Edgecliff NSW 2027 Tel:02 9363 1111 Fax:02 9363 0011 Email:scc@southerncrossgroup.net

A.B.N.78 083 223 107 Lic.No.119353C



18 July 2009

Document # 541 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION D11 - COMPLIANCE

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that Southern Cross Constructions (NSW) Pty Ltd have provided and maintained continuous sedimentation and erosion controls at all times during the course of construction. We therefore advise that we have complied with the above mentioned DA Condition.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Perry Edwards Project Manager

Southern Cross Constructions (NSW) Pty Ltd

135-153 New South Head Road Edgecliff NSW 2027 Tel:02 9363 1111 Fax:02 9363 0011 Email:scc@southerncrossgroup.net

A.B.N.78 083 223 107 Lic.No.119353C



11 August 2009

Document # 570 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION E3

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

This is to confirm that all parking areas and driveways have been sealed to an all weather standard, linemarked, signposted and maintained prior to the occupation use of the site.

We therefore advise that we have complied with the above mentioned DA Condition E3.

Please contact me should you have any questions.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager



STUBBS CRUICKSHANK

19 Gertrude Street
Balgowlah Heights NSW
AUSTRALIA 2093

CONSULTANTS

STRUCTURAL BUILDING ENGINEERS
Mob: 0418 672 775
INVESTIGATIVE AND REMEDIAL DESIGN SERVICES

Mob: 0418 672 775
E-mail: excel@bigpond.net.au

19 Gertrude Street Balgowlah Heights NSW AUSTRALIA 2093 ABN 33 002 564 794 Tel.: (02) 9949 1965 Fax: (02) 9949 1966 Mob: 0418 672 775

Southern Cross Constructions (NSW) Pty Ltd 135-153 New South Head Road Edgecliff NSW 2027 S/C Ref. 3176

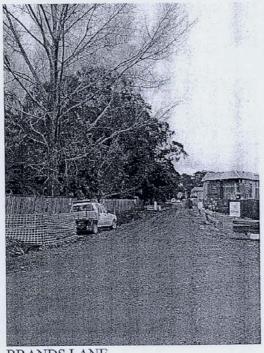
7 July 2009

Attn; Adrian Galati

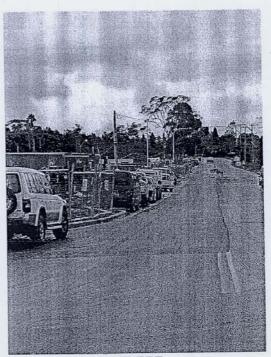
Dear Sir,

COMPLETION CONDITION SURVEY
DA NO. N0102/05
6 MACPHERSON STREET, WARRIEWOOD, NSW

With reference to the Conditions of Approval dated 23 May 2008 issued for the Development Application No. N0102/05, and item E5 in particular, we are pleased to advise that we have re-visited the site today, 7 July 2009 and carried out a condition survey of Brands Lane on the north-west side of the site, and of the north-east side of MacPherson Street adjoining the development site.







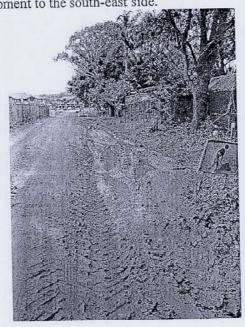
MACPHERSON STREET

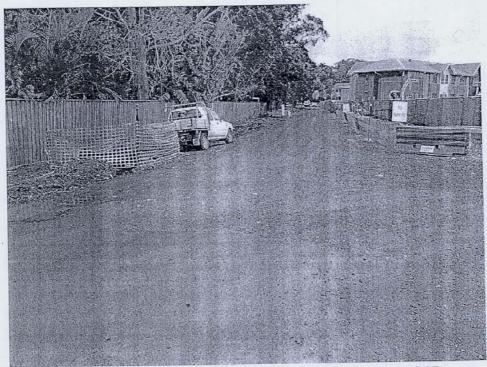
C. IAN CRUICKSHANK B.Sc, C.Eng. M.I.C.E, M.I.E.Aust, CPEng, NPER, M.H.K.I.E. DIRECTOR EXCEL CONSULTING PTY LTD TRADING AS STUBBS CRUICKSHANK CONSULTANTS

Brands Lane remains an un-made access road which we understand will be up-graded at some future stage of the adjoining development to the south-east side.

The only visibly permanent aspect of the Lane are the established trees on the north-west side of lane.

We cannot identify any appreciable change to these trees as first recorded by us in the general overview photographs dated 5 March 2008.



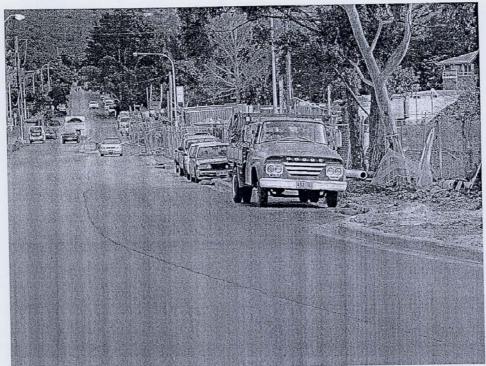


BRANDS LANE FROM MACPHERSON STREET, WARRIEWOOD

MacPherson Street has experienced a complete "make-over" on the development site side including footpath, kerb and gutter, and a re-sheeted carriageway surface extending from Brands Lane at the north-west end to near Boondah Road at the east end.







MACPHERSON STREET LOOKING NORTH-WEST TOWARDS BRANDS LANE

Comparison with the original street-scape recorded in March 2008 is not relevant as no previously recorded surfaces can be compared with the new overall installation provisions being made.

We are satisfied from our on-site inspection today, 7 July 2009, that no damage has been done to the previous conditions on the north-east side of MacPherson Street in so far as the previous conditions from the carriageway to the development site boundary have been replaced overall, and the surface of MacPherson Street has been fully re-sheeted.

Yours faithfully STUBBS CRUICKSHANK CONSULTANTS

C. I. CRUICKSHANK

Chartered Professional Engineer Membership No 405307



23 June 2009

Document # 454 File Code: ARV-5 / 3707

Steve Watson & Partners

Level 5, 432 Kent St SYDNEY NSW 2000

Att: Andrew Rys Fax: 9283 8500

RE: DA CONDITION B1 - COMPLIANCE STATEMENT

WARRIEWOOD STAGE 1 NEW A,B & C, MACPHERSON STREET WARRIEWOOD NSW 2102

Andrew,

This is to advise that throughout the construction of the above mentioned project, Southern Cross Constructions (NSW) Pty Ltd have complied with the Vegetation Management Plan as prepared by Pittendrigh Shrinkfield Bruce Pty Ltd dated 20 October 2005.

Regards,

Southern Cross Constructions (NSW) Pty Ltd

Terry Edwards Project Manager



Contact: Gina Potter Phone: 02 9895 7259 Fax: 9895 7501

Email: gina.potter@dnr.nsw.gov.au

Richard Abbott Morgan Moore and Associates Level 5, 140 Arthur Street North Sydney NSW 2060 Our ref: 10 ERM2008/1071 File No: 9012985

27 March 2009

Dear Mr Abbott

Re: Controlled Activity Approval – Issue Date 27/03/2009
Anglican Retirement village, 6 - 14 Macpherson Street, WARRIEWOOD

I refer to your application dated 22/08/2008 for a Controlled Activity Approval under the *Water Management Act 2000*. The Department acknowledges receipt of your application fee of \$3235.00.

Controlled Activity Approval

The Department has determined to grant you a Controlled Activity Approval. Please find enclosed the Controlled Activity Approval.

Your Controlled Activity Approval will expire on 27/03/2014.

Please read carefully the conditions of the Controlled Activity Approval and seek clarification from the Department for any condition not fully understood.

You are required to provide a copy of this Approval and any annotated documentation to your certifier and to all contractors engaged in the implementation of these works or the Vegetation Management Plan (VMP) to ensure they are also aware of the conditions.

The Controlled Activity Approval must be kept current until all works have been completed. Application for an extension of the Controlled Activity Approval should be made to the Department, in writing, at least one month prior to the expiry date.

Security Deposit

The Department acknowledges receipt of your security which will be held until such time as the works, rehabilitation and any specified maintenance period related to this Controlled Activity Approval are complete. If the application is amended or the scope of the works are changed, then the value of the security may also be amended. Details of the security are as follows:

Number	Provider	Value
1	Westpac	\$111,250.00
2	Westpac	\$111,250.00

Any security held by the Department for these works will only be returned after the reporting requirements and conditions of the approval have been met. If necessary, the works will be inspected by a Departmental officer to confirm that the requirements and conditions of the approval have been met. The current fee includes an inspection for each stage as listed. However, if extra inspections are required then additional fees will be incurred:

Macquarie Tower, 10 Valentine Avenue, Parramatta NSW 2150 FO Box 3720 Parramatta NSW 2124 Australia $t+61\ 2\ 9895\ 6211$ | e information@dwe.nsw.gov.au | www.dwe.nsw.gov.au | ABN 58 132 718 272

Additional fees may also apply if amendments or an extension to this Controlled Activity Approval are requested. Please contact the Department for advice on fees and charges.

Any questions regarding this correspondence should be directed to **Gina Potter**, **gina.potter@dnr.nsw.gov.au**.

Yours sincerely

Gina Potte

Licensing South Water Management Division

Enc: Controlled Activity Approval Annotated plans



Controlled Activity Approval issued under the Water Management Act 2000 - for controlled activity on waterfront land in New South Wales

Reference No: 10 ERM2008/1071				File No: 9012985			
Controlled Activ	vity Approv	al issued to:	(Approval Holder)	N6714			
Name of Approval	Richard Abbott						
Postal Address:	Level 5, 140 Arthur Street						
	Town/Cit	Town/City North Sydney		N	P/Code 2060		
Company Name:	Morgan	Moore & Associa	ates				
Office Address:	As above						
	Town/Cit	у	State		P/Code		
Property Owner							
Name of Owner/s (1)	Anglican Retirement Villages						
Postal Address:	c/- Michael Lockwood PO Box 284						
	Town/City Castle Hill		State NSW		P/Code 1765		
Name of Owner/s (2)							
Postal Address:							
	Town/City		State		P/Code		
At the site desc	cribed as:						
Property Address:	6-14 Macphe	rson Street					
	Town/City W	/arriewood	iewood State NSW		P/Code		
Lot A & B	DP: 400488		Portion		Parish Narrabeen		
Lot 22	DP: 5464		Portion		Parish		
Lot A & B	DP: 358765						
Lot 5, 6, 7 & 8	DP: 1115877						
Name of watercourse	e (if known)	Narrabeen	Creek				
Local Council: Pittwater Council				DA102/0			
Details of Contr	olled Activit	y to be undert	aken: ('the Con	rolled Activ	vity')		
Widening and parti vegetation works	al reconstruct	on of Narrabeen	Creek abutting th	e eastern fr	rontage of the site and associated		
Period of Appr	oval:						
Date of Issue: 27			Date of Expi	Date of Expiry: 27 March 2014			

Page 1



Department of Water & Energy

Conditions of Approval: This controlled activity approval is grarted subject to the conditions listed.

Number Condition

Plans, standards and guidelines

- This Controlled Activity Approval number 10 ERM2008/1071 only applies to the controlled activity carried out at the location marked on Warriewood Valley, Anglican Retirement Village, Narrabeen Creek Riparian Restoration, Vegetation Management Plan, Job No. 08-082S, dated 19 February 2009, by Taylor Brammer Landscape Architects Pty Ltd. as approved by the Department of Water & Energy and stamped on 27/03/2009. This Controlled Activity Approval does not permit controlled activities at any other site.
- The approval holder must not transfer this Controlled Activity Approval 10 ERM2008/1071 without the written approval of the Department of Water & Energy.
- The approval holder must keep a copy of the current Controlled Activity Approval 10 ERM2008/1071 on site at all times and make it available to officers from the Department of Water & Energy on request.
- If the controlled activities described in this Controlled Activity Approval 10 ERM2008/1071, have not commerced or been completed within the period of this approval, the approval holder must apply for a new approval or seek an extension prior to the lapsing of the consent.
- The approval holder must notify the Department of Water & Energy in writing within 14 calendar days of any change in (i) site management; (ii) land ownership; (iii) land occupation.
- 6 N/A
- The approval holder must carry out all vegetation management, erosion and sediment control and rehabilitation activities in accordance with the plans and schedules approved by the Department of Water & Energy and stamped on 27/03/2009 as follows:
 - Warriewood Valley, Anglican Retirement Village, Narrabeen Creek Riparian Restoration, Vegetation Management Plan, Job No. 08-082S, dated 19 February 2009, by Taylor Brammer Landscape Architects Pty Ltd.
 - Vegetation Management Plan Revegetation Zones, Drawing No. LRP01, Rev F, dated 19/02/09, by Taylor Brammer Landscape Architects Pty Ltd.
 - iii. Landscape Planting Plan Council Dedicated Areas, Drawing No. LRP02, Rev E, dated 19/02/09, by Taylor Brammer Landscape Architects Pty Ltd.
 - Landscape Planting Plan Council Dedicated Areas, Drawing No. LRP03, Rev D, dated 19/02/09, by Taylor Brammer Landscape Architects Pty Ltd.
 - v. Landscape Planting Plan ARV Land, Drawing No. LRP04, Rev E, dated 19/02/09, by Taylor Brammer Landscape Architects Pty Ltd.
 - vi. Landscape Planting Plan ARV Land, Drawing No. LRP05, Rev D, dated 19/02/09, by Taylor Brammer Landscape Architects Pty Ltd.
 - vii. Creek works, Creek Plan & Longitude Section, Drawing No. 21-13577-C1002, Rev 2, dated 6/3/09, by GHD
 - viii. Creek works, Existing Site Plan, Drawing No. 21-13577-C1003, Rev 0, dated 16/10/08, by GHD
 - ix. Creek works, General Notes, Drawing No. 21-13577-C1004, Rev 0, dated 15/10/08, by GHD
 - x. Creek works, Creek cross sections sheet 1 of 3, Drawing No. 21-13577-C1020, Rev 3, dated 6/3/09, by GHD

Page 2



NSW Government

Department of Water & Energy

- xi. Creek works, Creek cross sections sheet 2 of 3, Drawing No. 21-13577-C1021, Rev 2, dated 6/3/09, by GHD
- xii. Creek works, Creek cross sections sheet 3 of 3, Drawing No. 21-13577-C1022, Rev 2, dated 6/3/09, by GHD
- xiii. Creek works, Typical Creek Sections sheet 1 of 2, Drawing No. 21-13577-C1030, Rev 1, dated 6/3/09, by GHD
- xiv. Creek works, Typical Creek Sections sheet 2 of 2, Drawing No. 21-13577-C1031, Rev 0, dated 15/10/08, by GHD
- xv. Creek works, Sediment and Erosion Works Plan, Drawing No. 21-13577-C1041, Rev 1, dated 9/3/09, by GHD
- xvi. Creek works, Sediment and Erosion Details sheet 1 of 2, Drawing No. 21-13577-C1042, Rev 0, dated 9/3/09, by GHD
- xvii. Creek works, Sediment and Erosion Details sheet 2 of 2, Drawing No. 21-13577-C1043, Rev 0, dated 16/10/08, by GHD
- xviii. Warriewood Brook, Warriewood Retirement Villages, Creek Works Specification, Rev D, dated February 2009, by GHD
- xix. Construction Management Plan, Warriewood Brook Creek Works, by Co-Ordinated Landscape for Morgan Moore & Associates and Anglican Retirement Villages
- xx. Environmental Management Plan for Warriewood Brook, Creek Works, dated February 2009, by Co-Ordinated Landscapes
- 8 N/A

The approval holder must clearly mark on the ground the boundaries of the areas where the controlled activity is to be carried out before commencement of the controlled activity, and maintain the markings until the works are completed.

- 10-15 N/A
- The approval holder must maintain the approved controlled activity on waterfront land for a minimum period of two (2) years from the date of completion of the controlled activity works.
- The approval holder must complete a maintenance period of two (2) years after final planting for all areas described in the Vegetation Management Plan (VMP) being Warriewood Valley, Anglican Retirement Village, Narrabeen Creek Riparian Restoration, Vegetation Management Plan, Job No. 08-082S, dated 19 February 2009, by Taylor Brammer Landscape Architects Pty Ltd approved by the Department of Water & Energy and stamped on 27/03/2009.
- 18-19 N/A
- The approval holder must submit survey plans to a professional standard of work as executed, and any other information required by the Department of Water & Energy within 14 days of completion of the controlled activities.
- At practical completion and at the end of the maintenance period, the approval holder must provide a final written report to the Department of Water & Energy evidencing completion of the approved controlled activity.
- The approval holder must provide a report on the implementation of the vegetation management plan (VMP) to the Department of Water & Energy at the completion of the revegetation works and at every twelve (12) months up to the end of the maintenance period that must include:
 - a schedule and map showing the vegetation species, number and location of initial and any replacement plantings and propagation materials, and
 - ii. the date of planting of vegetation, and

Page 3



■ NSW Government

Department of Water & Energy

- iii. the percentage cover of groundcover, shrubs, trees and weeds, and
- iv. any problems that impacted on the survival rates of plants including climatic, fire, flooding and vandalism, and
- v. a map of the location of any staged activities, and
- vi. photographs showing the revegetation works during the reporting period.
- The approval holder must provide the Department of Water & Energy with a certificate of completion of approved activities and also a certificate of completion of maintenance to best practice provided by persons suitably experienced and/or qualified in such certification at the completion of the each stage.
- 24 N/A
- The approval holder must notify the Department of Water & Energy in writing within seven (7) days if the controlled activity (i) ceases for a period of more than 30 calendar days; or (ii) is terminated before its full completion, or (iii) is resumed.

Security deposits

- The approval holder has provided security of \$111,250.00 for practical completion and \$111,250.00 for maintenance by way of bank guarantee to the Department of Water & Energy. The security deposits will be held until such time as the controlled activity, together with any rehabilitation or revegetation works, have been completed in accordance with the conditions of this approval. The approval holder must certify compliance with the conditions of this Controlled Activity Approval (certificate of compliance) prior to the release of any security being held for the controlled activity.
- 27-34 N/A

Disposal

- 35 The approval holder must relocate any unused or excess materials outside the designated riparian corridor.
- The approval holder must not leave materials which could obstruct the flow of water or damage river banks on waterfront land at any time.
- 37 The approval holder must remove surplus material when operations cease and the controlled activity is completed.
- The approval holder must not put materials in the drainage line or river or in any area that has existing native vegetation and/or that is identified as part of the riparian corridor.
- 39-41 N/A

Erosion control

- 42-43 N/A
- The approval holder must use only biodegradable materials for any erosion control matting in the riparian corridor.
- The approval holder must decommission all erosion and sediment control works using a suitably qualified person when the site has stabilised.
- The approval holder must (i) implement erosion and sediment control measures in accordance with the requirements of the Managing Urban Stormwater Manual, Volume 1, Soils and Construction (Landcom, 4th Edition, March 2004) prior to any works commencing at the site; and (ii) maintain the control measures for the duration of the approval to prevent sediment and dirty water entering the waterway.
- 47-59 N/A

Page 4



NSW Government

Department of Water & Energy

River bed and bank protection

The approval holder must ensure that all rock rip-rap surfaces are rough and aligned with the adjoining bed, bank and floodplain profile.

61-64 N/A

The approval holder must not use wire mesh structures, concrete, spray concrete, concrete grouting, crib walling, masonry or car tyres for bank stabilisation.

66-67 N/A

Vegetation management and riparian corridor

The approval holder must delineate, protect and maintain a riparian corridor in accordance with Warriewood Valley, Anglican Retirement Village, Narrabeen Creek Riparian Restoration, Vegetation Management Plan, Job No. 08-082S, dated 19 February 2009, by Taylor Brammer Landscape Architects Pty Ltd.

69-71 N/A

The approval holder must not compromise the implementation of the Vegetation Management Plan (VMP) for any work and/or controlled activity at the site.

73 N/A

END OF CONDITIONS

Fee: \$3235.00	has been paid	exclusive of GST	Receipt No: 55820
Controlled Activity	Approval issued by:		

Nikki Allwood

Page 5



Notice of Determination – Controlled Activity Approval

Issued under Part 3, Chapter 3 of the Management Act 2000 - for matters assessed as integrated development under Part IV of the Environmental Planning & Assessment Act, 1979.

Approval Numbe	r:	10 ERM	2008/1071				
pplicant/s Detail	s:(Fi	st applicant	1)				
Title (Mr, Mrs, Ms) Mr	No. of the last of	name bott				TO REPORT	ven name(s) chard
Company name (if applicable)						
Address Level 5, 14	0 Arth	ur Street, ,	North Sydne	y N	SW 2060		
Phone					Alternate	phone	e ·
Fax		Email					
Second applicant if ap	plicab	le:					
Title (Mr, Mrs, Ms)		rname				Giv	ven name(s)
Address							
Town			State		Posicode		Country
Determination:							
Kind of Approval		Contro	lled Activity	App	proval		
Date of Determination	on	27/03/2	009				
Determination		D 0	aranted (subj	ect t	o conditions)		☐ Refused
Location		6-14 N	Macpherson S	Stree	et, WARRIEW	000	
Description of Works		Anglica	n Retiremen	t villa	age		
Reasons for determination	on	propose		nt has done	s adequate arra to waterfront la		the basis that the Department is satisfied the nents in place to ensure that no more than this site as a consequence of carrying out the
	en as	sessed as j	ntegrated de	evelo es no	t affect any rig	tht of	a right of appeal in certain circumstances. As e subject to any third party rights of appea if appeal an objector may be entitled to 179.
Signature			Ms	F	2		
Name			nmed Ismail	n the	e Minister for	Wat	ter



TREE & LANDSCAPE CONSULTANTS

Site Analysis, Arboricultural Assessments



Dip. Hort. (Arboriculture)
Assoc. Dip.Hort. (Park Management)
Hort. Cert.
Bush Regeneration. Cert.
Tree Surgery Cert.
Member IACA, LGTRA, ISAAC
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1st July, 2009

Southern Cross Constructions (NSW) Pty Ltd 135-153 New South Head Road, Edgecliff NSW 2027

Our reference: 1186-1-10

Report- Vegetation Issues: 1-8 Macpherson Street

1-8 Macpherson Stree Warriewood 2102

The property was inspected in regards to compliance with conditions E1 & E2 of DA consent No 102.05 (Warriewood Brook Stage 1-8 Macpherson Street Warriewood). An inspection has been undertaken of areas A, B & C and lake surrounds prior to soft landscaping being introduced.

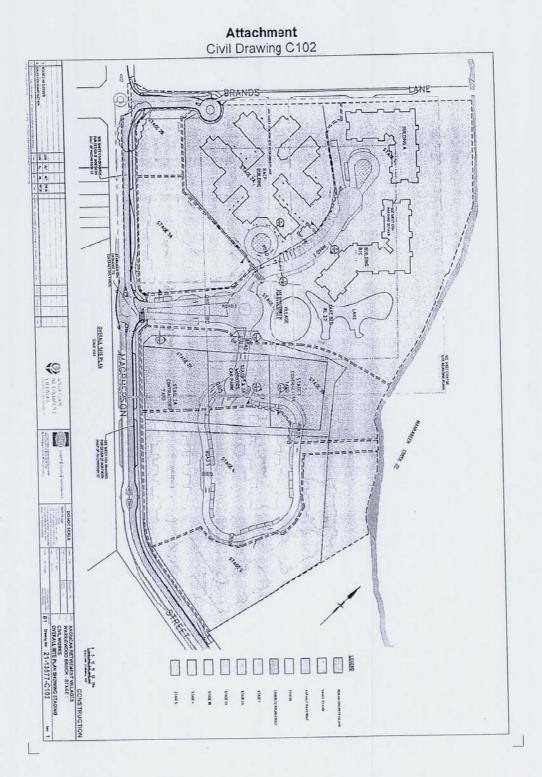
No weed species as indicated within the Vegetalion Management Plan (VMP) Prepared by Taylor Brammer Landscape Architects Pty Ltd dated 14th August 2008 were present within the area of concern and removal of weeds were undertaken by Landscape contractors utilising methods prescribed within the VMP such as hand removal and selective herbicide application (see section 4.5.4 of this report). Also, secondary weeding will be required monthly for a period of six months following planting as identified within section 4.5.5 of this report.

If you require further information please contact me on 0418277379

Peter Richards

Tree & Landscape Consultants

Report- Vegetation Issues - 1-8 Macpherson Street Warriewood 2102





13 August 2009

Richard Abbott Morgan Moore and Associates Level 5, 140 Arthur Street North Sydney NSW, 2060 Our ref: 21/18604/152918 Your ref:

Dear Richard

ARV Warriewood Stage 1 and Creek Works WAEX Assessment with respect to Flooding

Requirement for this Letter

This letter reports on our assessment of Works as Executed (WAEX) at the Anglican Retirement Villages, Warriewood Retirement Village in relation to flooding and the Water Management Report (WMR, Version 4, December 2006, based on Development Footprint SK19 Rev G, 21/12853/02/109212) for the following works:

- Stage 1 works only (Buildings A, B/C and associated roads); and
- Creek works, half creek only.

2 Available Information

GHD have reviewed the following attached Works as Executed (WAEX) drawings, received as CAD drawing files and PDF format:

- Received 05/08/2009 from Morgan Moore and Associates: McPherson Street Warriewood, Works as Executed and Site Levels from Project Surveyors, DWG 19248-20419, 31.07.2009 and surveyed 03.08.2009;
- Received 13/08/2009 from Morgan Moore and Associates: Plan showing As Built Levels,
 Warriewood Brook Creek works from Proust & Gardner, DWG 22646-CreekDetail-C, 12/08/09;

3 Background to the Water Management Report (WMR) with respect to Flooding

The WMR assessed the impact of the proposed development on flooding, on and off-site. This flooding was assessed for the 100-year ARI event and the PMF by considering the proposed Development Footprint, SK19 Rev G in its entirety. Use was made of Councils flood model operated by their consultants Cardno Lawson and Treloar. Numerous flood model iterations were undertaken, adjusting amongst others:

- The rehabilitated creek profile and associated pinch-point;
- Internal roads and associated levels;
- Levels and spacings between buildings; and

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Site entrance/exit areas.

In terms of flood planning levels, the Warriewood Valley Urban Land Release, Water Management Specification, Revised Version, Pittwater Council, February 2001 (WMS) requires building floor levels to be at or above the PMF level for habitable buildings and underground car park entries. For non-habitable buildings, floor levels need to be above the 100-year ARI level plus freeboard. This has required the developed form to be raised significantly compared to existing conditions. The raising however needed to make allowance for the conveyance of the PMF through the site, to ensure off-site impacts (in particular raised flood levels) are minimised.

4 A Comment on Staging

At the time of DA, construction was proposed in 4 stages. The first stage included buildings along Macpherson Street followed by the RACF and buildings along Narrabeen Creek on the eastern half of the site. The last stage would have comprised buildings along Narrabeen Creek and buildings on the western half of the site. While this presented the general staging approach, staging plans were still being development at that time. The first stages were tested using flood modelling and found to result in minor increases in flood levels.

Since then the staging has changed significantly, with Stage 1 (Building A, B/C and associated road work) complete and Stage 2 (the RACF) currently under construction. This proposed staging has not been tested using flood model simulations and the flood impacts of individual stages through to completion of the project are not known.

This letter is required to comment on only Stage 1 and creek works (half creek). However since these works have not been simulated in the context of the staged site development, the impacts of the WAEX on flooding cannot be assessed. To this end, we are only able to comment on whether the WAEX drawings are generally in accordance the WMR intent.

5 Assessment of the WAEX with respect to Flooding

In assessing the WAEX we make specific reference to following key areas of concern:

Stage 1 WAEX:

1. The area between Building A (Stage 1) and the RACF (Stage 2), was critical to managing the conveyance of the PMF through the site as part of Development Footprint SK19 Rev G. Located within this corridor is the down ramp to the underground car park of Building A. In November 2007, Morgan Moore and Associates directed flood simulation of this down ramp and the potential blockage this ramp presented to the conveyance of the PMF through the site. The ramp was located centrally in the corridor between the buildings and ground levels were adjusted to 4.75m AHD on either side of the ramp to facilitate PMF flood conveyance.

On inspection of the WAEX, it is noted that the walls associated with the access ramp leading to the Building A underground car park, extending further around the bend towards Building A than was simulated in the November 2007 flood modelling. In addition the flow area around the car park ramp is at elevations above those advised by Cardno Lawson and Treloar. The effect of this is the potential

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- redirecting of flows through the narrow 2m wide pathway between the ramp and the RACF. This could have the potential of raising flood levels in the immediate area;
- In the same area as noted above, access footpaths to Building A and the RACF have resulted in raised ground levels leading from Brands Lane to the corridor between the buildings, compared with what was simulated in the WMR. This would reduce the flood conveyance between the buildings;
- 3. Internal roads leading from Building A to the McPherson Street entrance are generally within approximately 100 mm to 200 mm of design levels and the levels simulated in the flood model. Better tolerances would be desirable and attention needs to be given to landscaping on either side of the roadways, to ensure conveyance of the PMF through the site;
- 4. A rendered low brick wall has been constructed along the frontage with McPherson Street. This has the potential to detain and or redirect flows on the site. However, Buildings K and J have not been constructed, the impact of this low wall on redirecting flood flows is unknown;
- 5. Building A floor levels were not provided, however balcony levels are noted as 5.94 m AHD. The WMR requires Building A floor levels to be 6.0 m AHD. Building B/C floor levels were not provided, however balcony levels are noted as 5.52 m AHD. The WMR required Building B/C floor levels to be 5.5m AHD. The entrance ramp to the car park crest is noted as 5.44m AHD. PMF levels provided in Appendix S of the WMR are approximately 5.45m AHD in this area. However, it must be noted that the levels in this area will be sensitive to resolving the issues noted in Item 1 and 2 above, with potential ramifications on flood levels; and
- The area between Building A and the creek, before the battering down to the creek invert, is approximately 300 mm lower than was simulated in the flood model. This area was lowered as a flood relief.

Creek WAEX

- 7. The creek works are generally in accordance with the design intent with exception of Item 8 below. We understand that, in some areas the creek cross-sections needed adjustment to correct for existing creek invert levels and creek centrelines. In doing so, the overall cross-section flow area was maintained by adjusting the flow width on the ARV creek side; and
- The pinch point in the creek opposite Building A differs to the final iteration used in the flood modelling. The WAEX pinch point is wider than simulated and the overflow level is approximately 1 m below the intended crest level of 5.2m AHD;

3



6 Findings

It is considered that the Stage 1 development and creek works are generally in accordance with the intent of the flooding aspects of the WMR with exception of items 1, 2 and 8 above. These issues will have implications on future development of the site and the management of flooding through the site.

Since this letter is required to comment on only Stage 1 and creek works (half creek) and these works have not been simulated in the context of the staged site development, the impacts of the WAEX on flooding cannot be assessed. Therefore, all future site development must be accompanied by flood modelling using Councils flood model, and any future development without flood modelling will render the findings in this letter null and void. In this flood modelling, the progressively completed works would need to be represented from WAEX drawings.

Yours faithfully GHD Pty Ltd

Dr. Rainer Berg

Business Group Manager 02 9239 7247

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