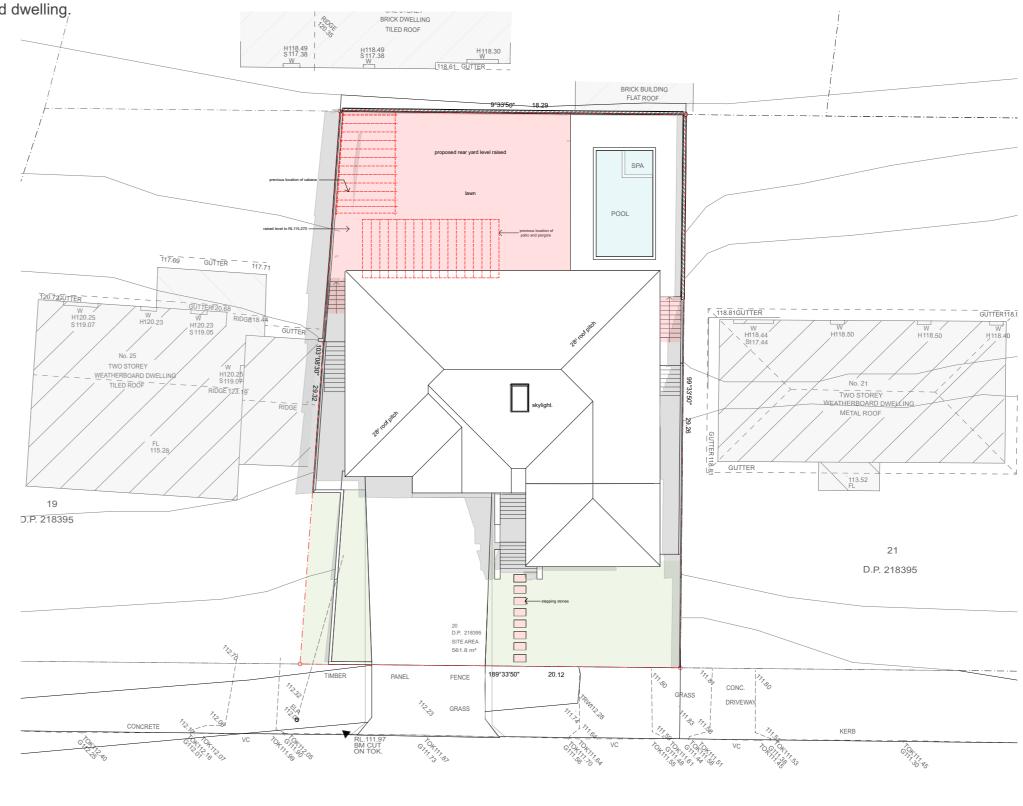
DEVELOPMENT APPLICATION

23 Reynolds Crescent BEACON HILL

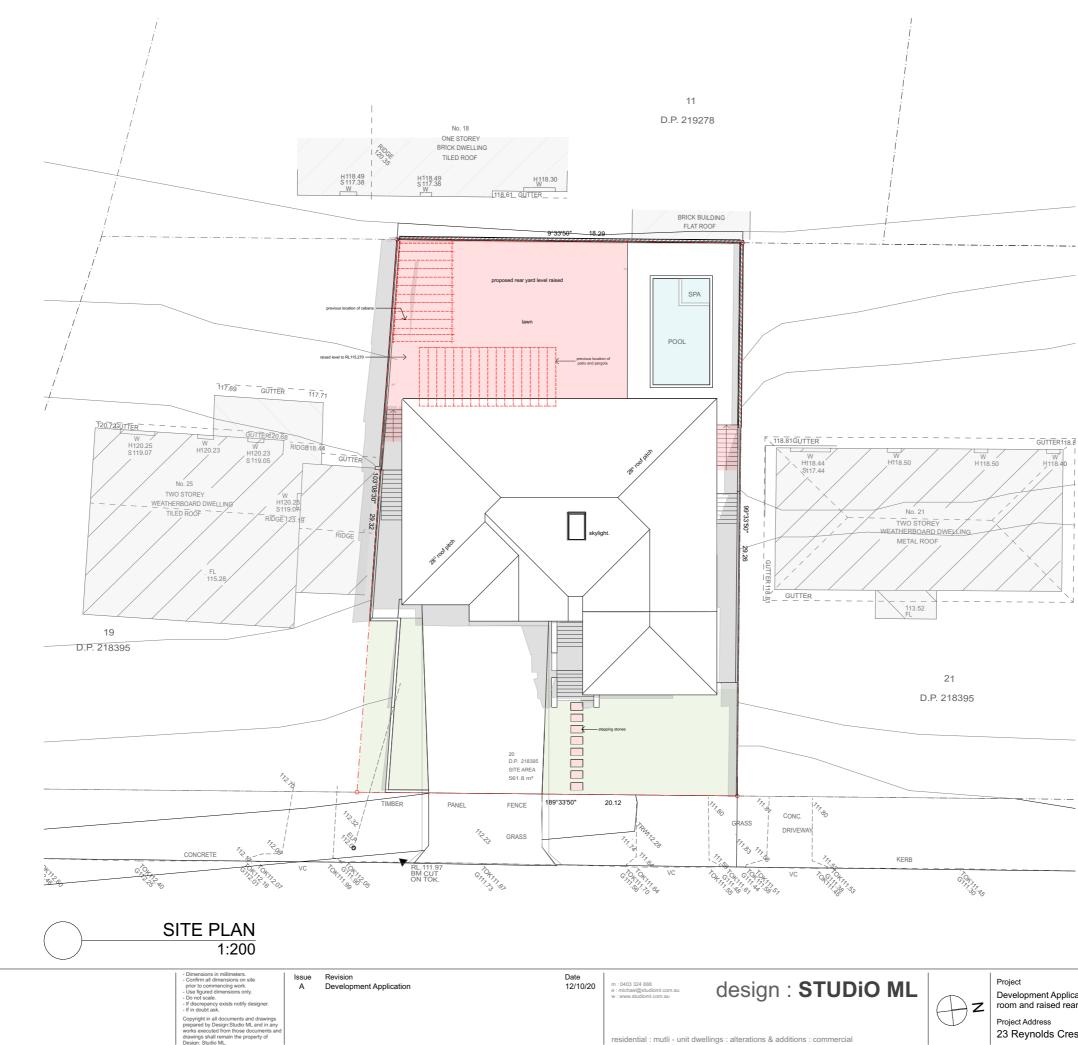
Proposed store room and raised rear yard finished level to approved dwelling.

Dwg No:	Drawing Name
DA.00	COVER PAGE
DA.01	SITE PLAN
DA.02	LOWER GROUND
DA.03	GROUND FLOOR
DA.04	ELEVATION - EAST
DA.05	ELEVATION - NORTH
DA.06	ELEVATION - SOUTH
DA.07	ELEVATION - WEST
DA.08	SECTION AA
DA.09	CALCULATIONS



design : STUDiO ML

residential : mutli - unit dwellings : alterations & additions : commercial



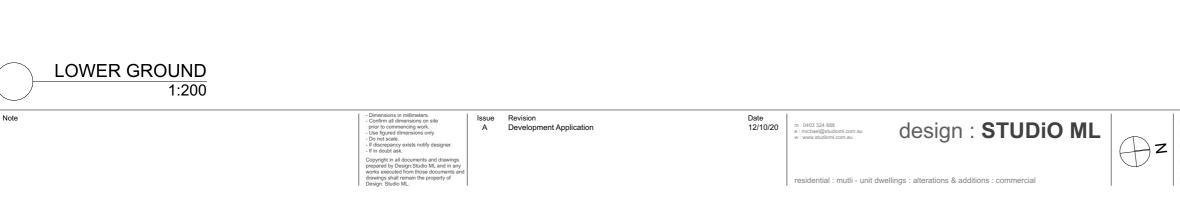
Development Application

Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

Client

Job 1805

Drawing 23 Reynolds Crescent, Beacon Hill SITE PLAN





Development Application

Project

Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

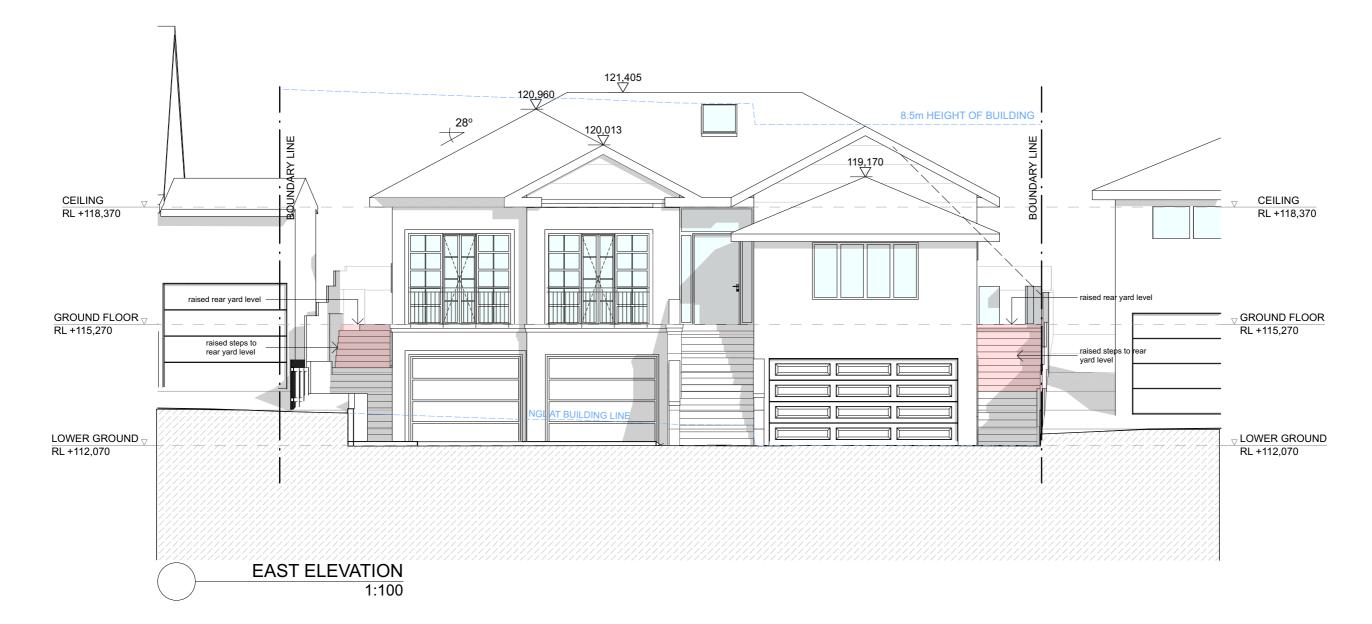
Client

Job 1805

Dwg no DA.02

Project Address Drawing 23 Reynolds Crescent, Beacon Hill LOWER GROUND





Dimensions in millimeters. Confirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. if discrepancy exists notify desi; If in doub task.	A	Revision Development Application	Date 12/10/20	m : 0403 324 888 e : michael@studioml.com.au w : www.studioml.com.au	design : STUDiO ML
Copyright in all documents and d prepared by Design(Studio All and works executed from those docu drawings shall remain the proper Design: Studio ML	any s and			residential : mutli - unit dwe	ellings : alterations & additions : commercial

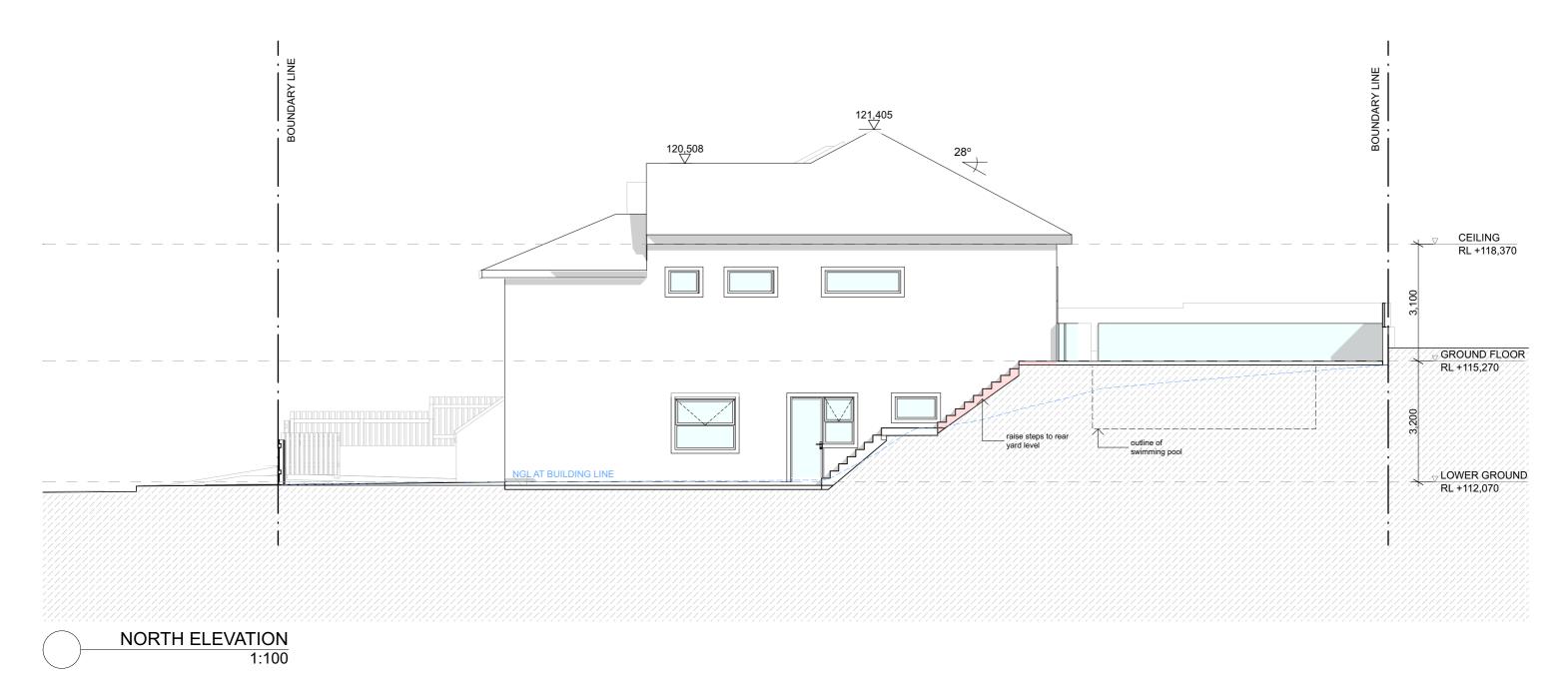
Development Application

Project Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

Client

Job 1805

Project Address Drawing 23 Reynolds Crescent, Beacon Hill ELEVATION - EAST



Date 12/10/20

m : 0403 324 888 e : michael@studioml.com.au w : www.studioml.com.au

Dimensions in millimeters. Confirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. If discrepancy exists notify designer. If in doubt ask.	Issue A	Revision Development Application
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residential : mutli - unit dwellings : alterations & additions : commercial

design : STUDiO ML

Proposed Development Application

Development Application

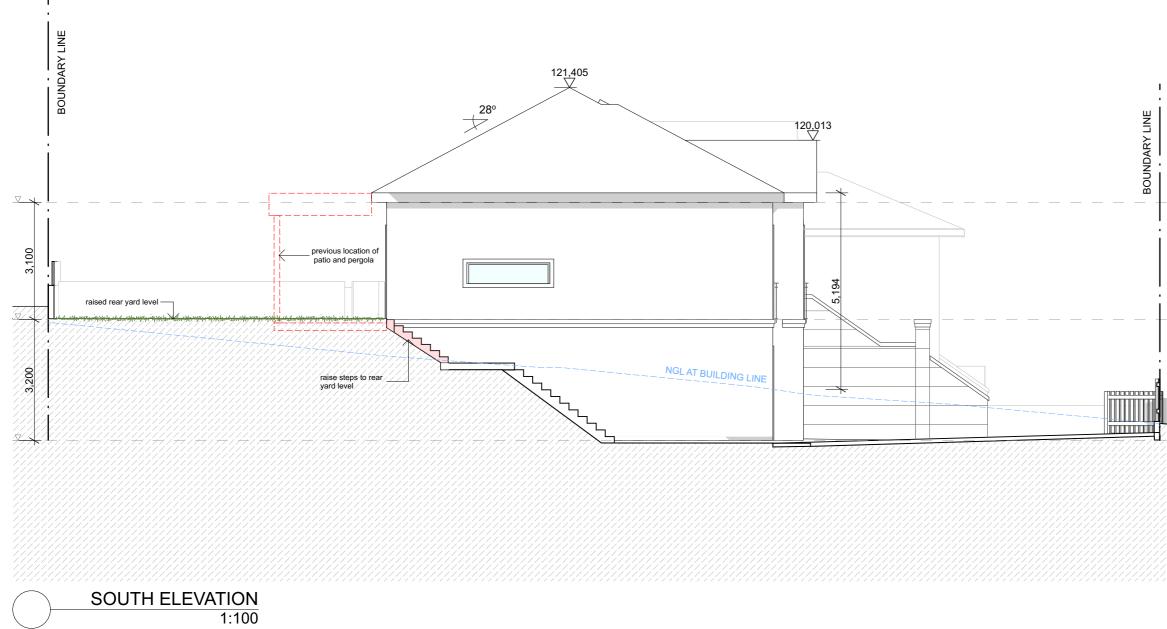
Project

Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

Client

Job 1805

Project Address Drawing 23 Reynolds Crescent, Beacon Hill ELEVATION - NORTH



Dimensions in millimeters. Oralirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. If discrepancy exists notify designer. If in doubt ask.	A Issue	Revision Development Application	Date 12/10/20	m : 0403 324 888 e : michael@studioml.com.au w : www.studioml.com.au	design : STUDiO ML
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CEILING RL +118,370 ⊽ GROUND FLOOR RL +115,270 ∠LOWER GROUND RL +112,070

Proposed Development Application

Development Application

Project

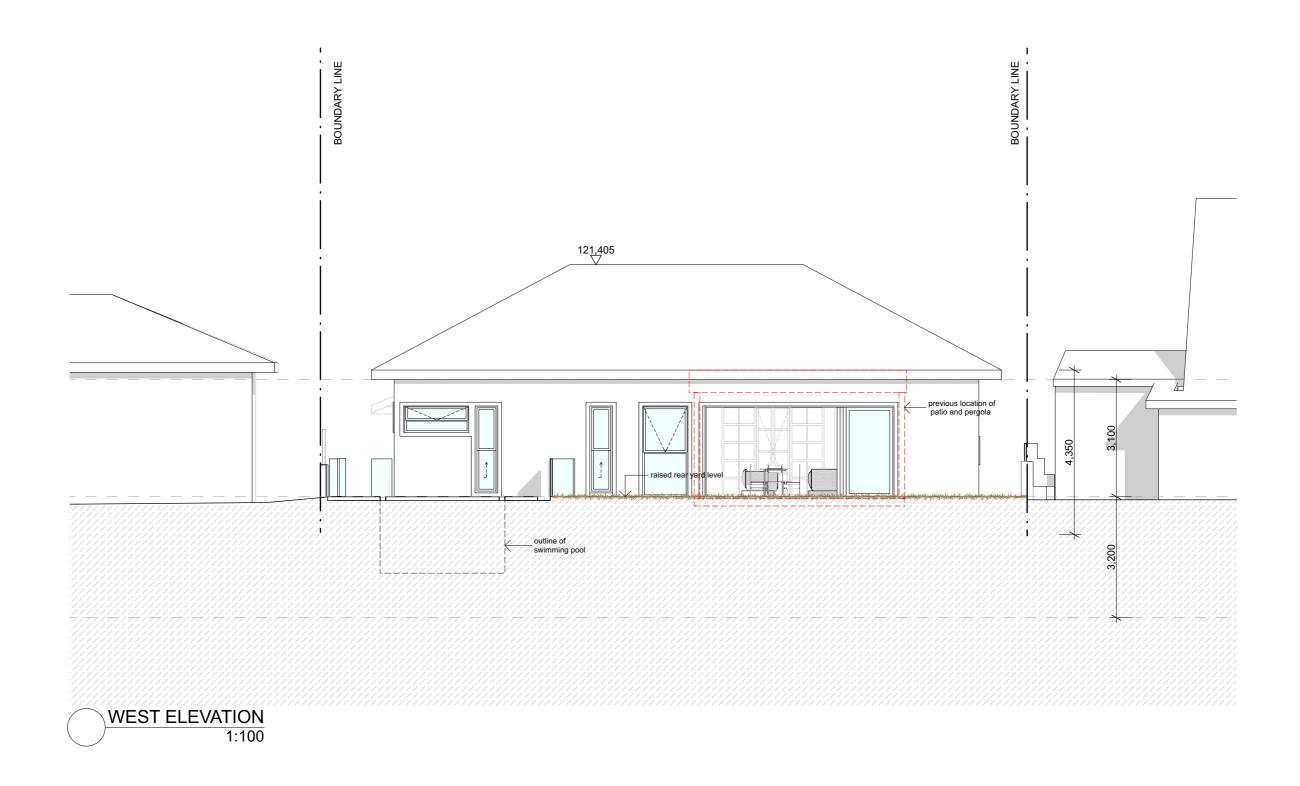
.

Client

Job 1805

Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

Project Address Drawing 23 Reynolds Crescent, Beacon Hill ELEVATION - SOUTH



Dimensions in millimeters. Confirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. If discrepancy exists notify designer. If discrepancy exists notify designer.	A Issue	Revision Development Application	Date 12/10/20	m : 0403 324 888 e : michael@studioml.com.au w : www.studioml.com.au	design : STUDiO ML
Copyright in all documents and drawings prepared by Design:Studio ML and in any works executed from those documents an drawings shall remain the property of Design: Studio ML				residential : mutli - unit d	wellings : alterations & additions : commercial

Development Application

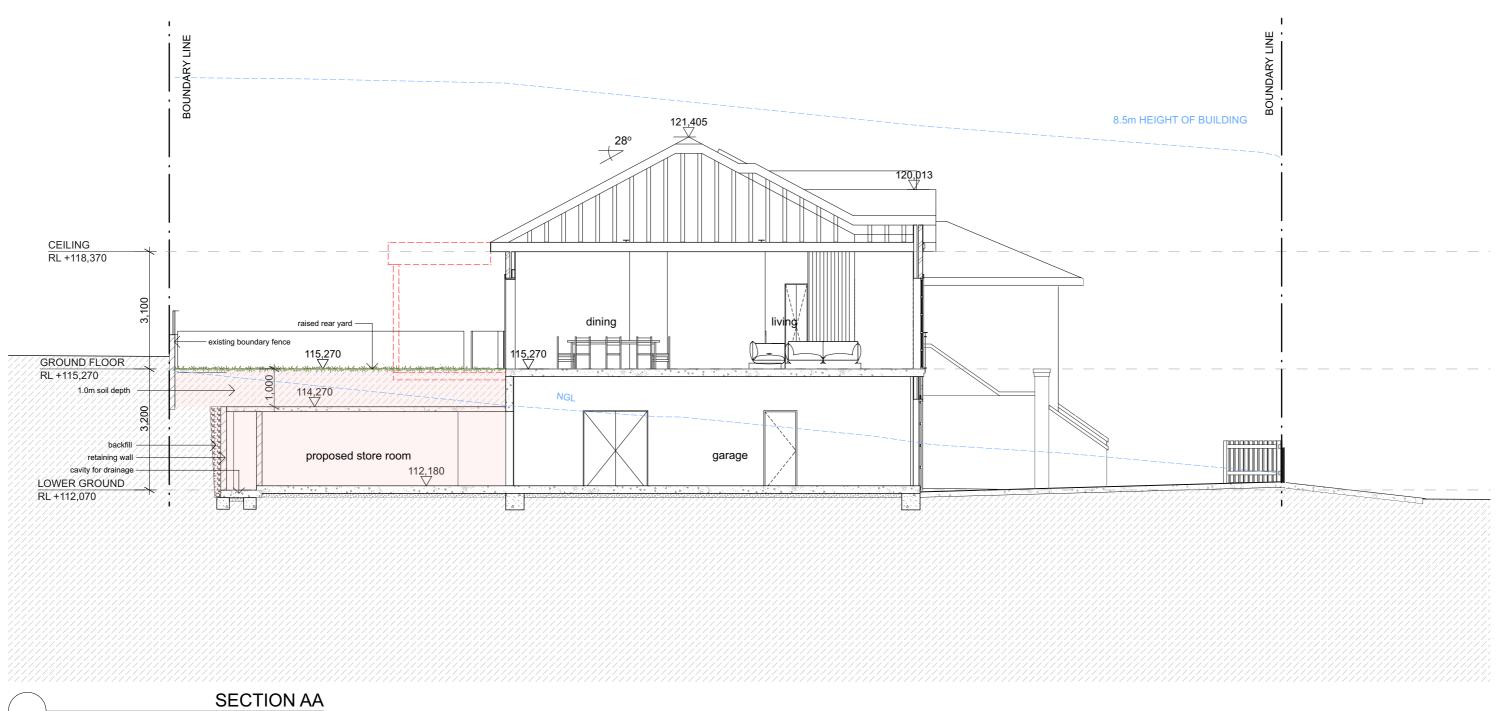
Project

Development Application - Proposed plant room and raised rear yard finished level

Client

Job 1805

Project Address Drawing 23 Reynolds Crescent, Beacon Hill ELEVATION - WEST



Dimensions in millimeters. Confirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. If discrepancy exists notify designer. If discrepancy exists notify designer.	Issue A
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Revision Development Application

Date 12/10/20 : 0403 324 888 : michael@studio



Proposed Development Application

Development Application

Project

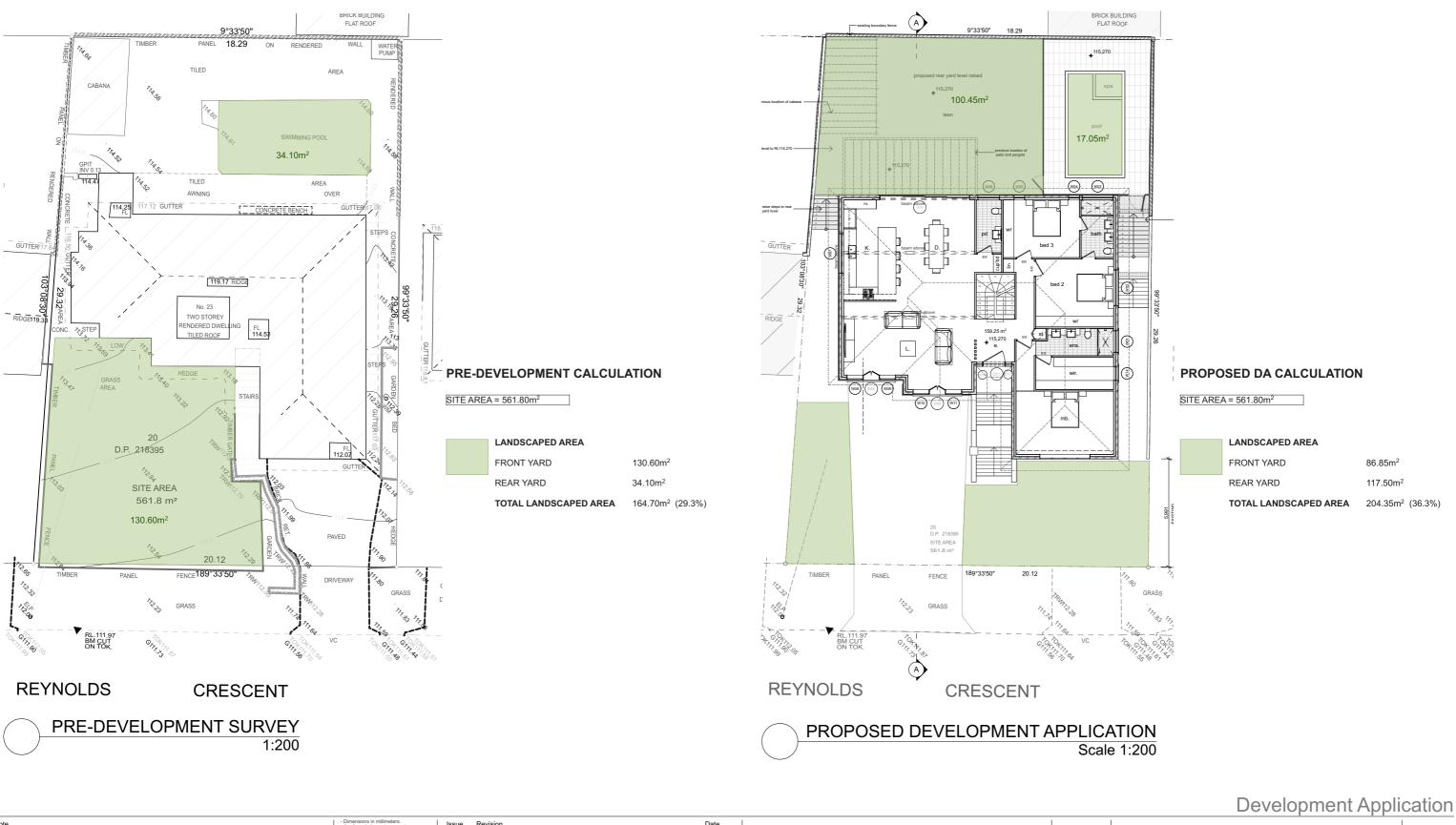
Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level

Client

Job 1805

Project Address 23 Reynolds Crescent, Beacon Hill SECTION AA

Drawing



Dimensions in millimeters. Confirm all dimensions on site prior to commencing work. Use figured dimensions only. Do not scale. if discrepancy exists notify designer. if discrepancy exists notify designer.	Issue A	Revision Development Application	Date 12/10/20	m : 0403 324 888 e : michael@studioml.com.au w : www.studioml.com.au	design : STUDIO ML	Az
Copyright in all documents and drawings prepared by Design: Studio ML and in any works executed from those documents and drawings shall remain the property of Design: Studio ML.				residential : mutli - unit dwe	ellings : alterations & additions : commercial	

Project Client Development Application - Proposed plant Mr & Mrs Calci room and raised rear yard finished level Project Address Drawing 23 Reynolds Crescent, Beacon Hill CALCULATIONS

Job 1805

STORMWATER MANAGEMENT PLAN (FOR DA) PROPOSED ADDITIONS AND ALTERATIONS No.23 REYNOLDS CRESCENT, BEACON HILL

PIPE SIZE:

PIPE GRADE

THE MINIMUM PIPE SIZE SHALL BE

OF 6.0 m/s DURING THE DESIGN STORM

THE MINIMUM PIPE GRADE SHALL BE-

GENERAL NOTES

- 1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
- 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK
- 3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2003 STORMWATER DRAINAGE. BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
- 4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
- 5. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
 - PLAN SPECIFIC NOTES
- 1. ROOF DRAINAGE NOTE: AS 3500 ROOF DRAINAGE REQUIRES EAVES
- GUTTERS TO BE SIZED FOR 20 YEAR 5 MIN. STORM = 205mm/hr. FOR EAVES GUTTERS, AS 3500.3:2003 THEN HAS THE FOLLOWING REQUIREMENTS: i) FOR TYPICAL STANDARD QUAD GUTTER WITH As = 6000mm² AND
- GUTTER SLOPE 1:500 AND STEEPER, THIS REQUIRES ONE DOWNPIPE PER 30m² ROOF AREA.
- ii) DOWNPIPES TO BE MINIMUM 90mm DIA. OR 100 x 50mm FOR GUTTERS SLOPE 1:500 AND STEPPER.

iii) OVERFLOW METHOD TO FIGURE G1 OF AS 3500.3:2003 IT IS THE RESPONSIBILITY OF THE PLUMBER AND / OR BUILDER TO COMPLY WITH THIS. THIS DRAWING SHOWS PRELIMINARY LOCATIONS / NUMBERS OF DOWNPIPES ONLY WHICH ARE TO BE VERIFIED BY BUILDER / PLUMBER

- 6. ALL STORMWATER DRAINAGE PIPES ARE TO BE UPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE
- 7. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS.
- 8. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL 9. THIS PLAN IS THE PROPERTY OF NY CIVIL ENGINEERING
- AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM NY CIVIL ENGINEERING.

- 2. TREE PRESERVATION: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY PRIOR APPROVAL REQUIRED FROM COUNCIL WITH RESPECT TO POTENTIAL IMPACT ON TREES FOR ANY WORKS SHOWN ON THIS DRAWING PRIOR TO THE COMMENCEMENT OF THOSE WORKS
- 3. ALL ROOF GUTTERS TO HAVE OVERFLOW PROVISION IN ACCORDANCE WITH AS 3500.3:2003 AND SECTIONS 3.5.3, 3.7.5 AND APPENDIX G OF AS 3500.3:2003
- 4. THIS DRAWING IS NOT TO BE USED FOR SET-OUT PURPOSES REFER TO ARCHITECTURAL DRAWINGS
- 5. LOCATION OF SURFACE STORMWATER GRATED INLET PITS MAY BE VARIED OR NEW PITS INSTALLED AT THE CONSTRUCTION STAGE PROVIDED DESIGN INTENT OF THIS DRAWING IS MAINTAINED

SURFACE INLET PIT		LEGEND	GRATED TRENCH DRAIN	
SURFACE INLET PIT (WITH ENVIROPOD 200 MICRON)			ABSORPTION TRENCH	
ACCESS GRATE	निन		PROPOSED ROOF GUTTER FALL	—
(WITH ENVIROPOD 200 MICRON)		PR	OPOSED DOWNPIPE SPREADER	⊢● SP
450 SQUARE INTERVAL	450 X 450	STORMW	ATER PIPE 100mm DIA. MIN. UNO	
GRATE LEVEL = 75.50	SL 75.50		SUBSOIL PIPE	aa
INVERT LEVEL = RL 75.20	IL 75.20		EXISTING STORMWATER PIPE	 _ sw
PROPOSED DOWNPIPE 90mm DIA. OR 100mm x 50mm MIN.	DP 90		INSPECTION RISER	O IR
NATURAL GROUND FINISHED DESIGN LEVEL	× [10.00]		RAINWATER HEAD	RWH

DRAINAGE NOTES

PIT SIZES

 1.0% FOR PIPES LESS THAN 225mm DIA (UNO) 0.5% FOR ALL LARGER PIPES (UNO)

PIPES WITH A GRADIENT GREATER THAN 20% WILL REQUIRE ANCHOR BLOCKS AT THE TOP AND BOTTOM OF THE INCLINED SECTION: AND AT INTERVALS NOT **EXCEEDING 3 0m**

90mm DIA WHERE THE LINE ONLY RECEIVES ROOFWATER RUNOFF; OR

• 100mm DIA WHERE THE LINE RECEIVES RUNOFF FROM PAVED OR

THE MINIMUM PIPE VELOCITY SHOULD BE 0.6 m/s AND A MAXIMUM PIPE VELOCITY

UNPAVED AREAS ON THE PROPERTY

ANCHOR BLOCKS ARE DESIGNED ACCORDING TO CLAUSE 3.5.3 OF AS3500.3-1990

DEPTH OF COVER FOR PVC PIPES: MINIMUM PIPE COVER SHALL BE AS FOLLOWS:

LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS
SUBJECT TO VEHICLE LOADING UNDER A SEALED ROAD UNSEALED ROAD	450mm WHERE NOT IN A ROAD 600mm 750mm
PAVED DRIVEWAY	100mm PLUS DEPTH OF CONCRETE

SEE AS2032 INSTALLATION OF UPVC PIPES FOR FURTHER INFORMATION

CONCRETE PIPE COVER SHALL BE IN ACCORDANCE WITH AS3725-1989 LOADS ON BURIED CONCRETE PIPES, HOWEVER A MINIMUM COVER OF 450mm WILL APPLY.

WHERE INSUFFICIENT COVER IS PROVIDED, THE PIPE SHALL BE COVERED AT

- LEAST 50mm THICK OVERLAY AND SHALL THEN BE PAVED WITH AT LEAST: • 150mm REINFORCED CONCRETE WHERE SUBJECT TO HEAVY VEHICLE
 - TRAFFIC: • 75mm THICKNESS OF BRICK OR 100mm OF CONCRETE PAVING WHERE SUBJECT TO LIGHT VEHICLE TRAFFIC; OR
 - 50mm THICK BRICK OR CONCRETE PAVING WHERE NOT SUBJECT TO VEHICLE TRAFFIC.

CONNECTIONS TO STORMWATER DRAINS UNDER BUILDINGS:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 3.10 OF AS3500.3-1990

CONNECTIONS TO COUNCIL SYSTEM:

IF PROPOSED DRAINAGE SYSTEM IS DESIGNED TO CONNECT TO COUNCIL'S DRAINAGE SYSTEM IT IS ADVISED THAT A 'WORKS PERMIT' IS OBTAINED FROM THE RESPECTIVE COUNCIL PRIOR TO COMMENCEMENT OF WORKS

ABOVE GROUND PIPEWORK:

SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 6 OF AS3500.3-1990

REVISION	DRAWN	DESCRIPTION	DATE	PLAN BY	DRAWING TITLE	APPROVED BY	DESIGNED	CHECKED
A	YR	ISSUED FOR DA	07.10.2020			NADER ZAKI MIEAust	YR SHEET SIZE	NZ SCALE
				Т 0416 334 977	PROJECT TITLE PROPOSED ADDITIONS AND ALTERATIONS	Alto aki	A3 ISSUE A	- No. IN SET 2
				NY CIVIL ENGINEERING T 0416 334 977 W admin@nycivilengineering.com.au W www.nycivilengineering.com.au	No.23 REYNOLDS CRESCENT BEACON HILL	JOB REFERENCE E200036	DRAWI	

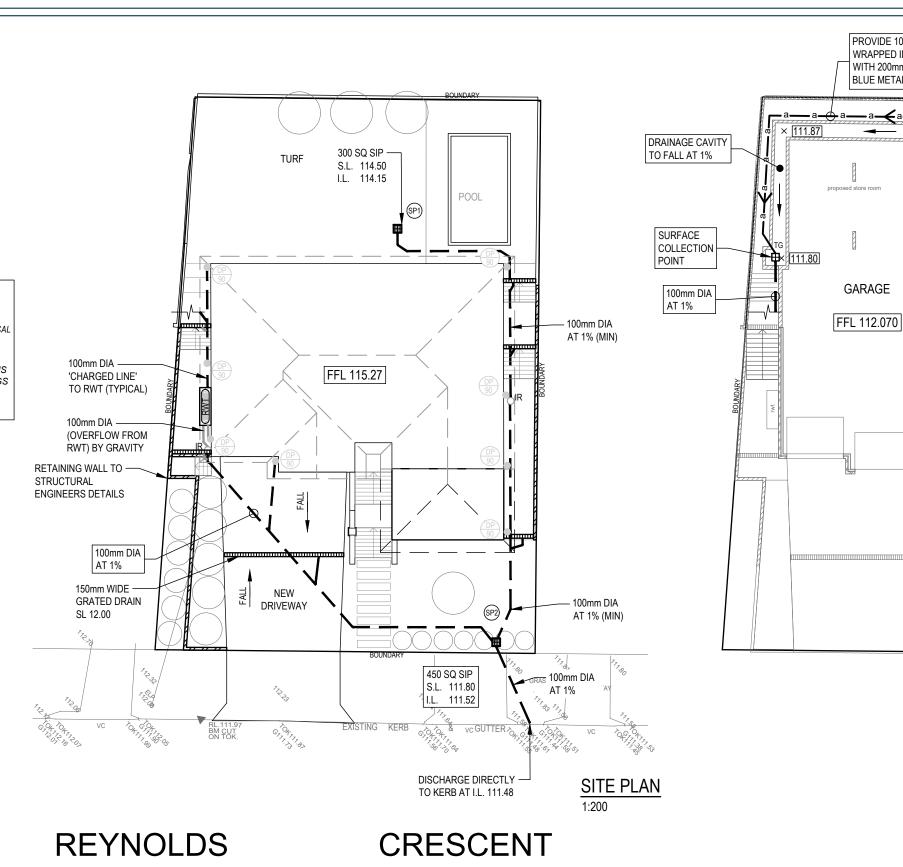
DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 x 450
450mm TO to 600mm	600 x 600
600mm TO 900mm	600 x 900
900mm TO 1500mm	900 x 900 (WITH STEP IRONS)
1500mm TO 2000mm	1200 x 1200 (WITH STEP IRONS)
LL PIPES SHOULD BE CUT FLUSH	WITH THE WALL OF THE PIT.
PITS GREATER THAN 600mm DEEP DPENING OF 600 x 600mm	SHALL HAVE A MINIMUM ACCESS
THE GRATED COVERS OF PITS LAF HINGED TO PREVENT THE GRATE I	RGER THAN 600 x 600mm ARE TO BE FROM FALLING INTO THE PIT.
	SHOULD BE AT THE SAME LEVEL AS THE IWATER SHOULD NOT BE PERMITTED TO SYSTEM
THAN 150mm AND DEPTH	RAINS ARE TO BE OF WIDTH NOT LESS I NOT LESS THAN 100mm. THE BARS OF PARALLEL TO THE DIRECTION OF
) 6m ARE TO HAVE STEP IRONS IN 657. FOR PITS GREATER THAN 6m SS MUST BE PROVIDED.
	PERMITTED IF THEY ARE NOT A) x 450mm (MAXIMUM DEPTH 450mm) AND
AT LEAST 150mm THICK. MEET THE MINIMUM REQ	CONSTRUCTED ON A CONCRETE BED OF THE WALLS ARE TO BE DESIGNED TO UIREMENTS OF CLAUSE 4.6.3 OF PER THAN 1.8m SHALL BE INFORCED CONCRETE.
GRATES: GRATES ARE TO BE GAL	VANISED STEEL GRID TYPE. GRATES JTY TYPE IN AREAS WHERE THEY MAY

AREA CALCULATIONS		
TOTAL SITE AREA	561.8	m²
EXISTING DEVELOPMENT		
ROOF AREA	212	m²
PAVED AREA	75	m²
DRIVEWAY AREA	30.0	m²
IMPERVIOUS AREA	317.0	m²
TOTAL IMPERVIOUS AREA PERCENTAGE	56.43%	
PROPOSED DEVELOPMENT		
PROPOSED ROOF AREA	256	m²
PROPOSED PAVED AREA	98	m²
PROPOSED DRIVEWAY AREA	59	m²
TOTAL IMPERVIOUS AREA	413.0	m²
TOTAL IMPERVIOUS AREA PERCENTAGE	73.51%	

OSD WARRANT LGA: - WARRINGAH COUNCIL RELEVANT CODE "ON-SITE STORMWATER DETENTION TECHNICAL SPECIFICATION" SECTION - 2.1: "APPLICATIONS" "ALL DEVELOPMENT APPLICATIONS FOR ALTERATIONS AND ADDITIONS FOR SINGLE RESIDENTIAL DWELLINGS WILL NOT REQUIRE OSD."

THEREFORE OSD NOT REQUIRED

NOTE: ALL SITE DRAINAGE PART OF EXISTING CDC APPROVAL U.N.O.





REVISION	DRAWN	DESCRIPTION	DATE	PLAN BY	DRAWING TITLE	APPROVED BY	DESIGNED	CHECKED
A	YR	ISSUED FOR DA	07.10.2020		STORMWATER MANAGEMENT PLAN	NADER ZAKI MIEAust	YR SHEET SIZE	NZ SCALE
				T 0416 334 977	PROJECT TITLE PROPOSED ADDITIONS AND ALTERATIONS No.23 REYNOLDS CRESCENT BEACON HILL	A ak;	A3 ISSUE A	1:200 No. IN SET 2
				NY CIVIL ENGINEERING T 0416 334 977 W admin@nycivilengineering.com.au www.nycivilengineering.com.au		JOB REFERENCE E200036	DRAWI	

