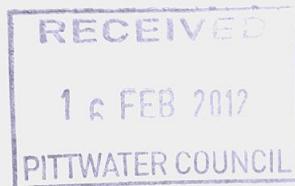


Metro Building Consultancy

Studio 1.05/56 Bowman St
Pyrmont NSW 2009
P: 02 9692 8477
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Ref: 11190 Narrabeen Council CDC letter

10 February 2012

Pittwater Council
PO Box 882
Mona Vale NSW 1660

Attention: One Stop Shop

Building A, Narrabeen Sports High School, Namona Street, North Narrabeen NSW 2101
Registration of a Complying Development Certificate for the refurbishment of the existing woodworking workshops on the ground floor of building A and the construction of a new covered outdoor work area adjacent to building A

With regard to the above project please find below details in relation Clause 86 (1) (a1) (i) of the Environmental Planning and Assessment Act 1979 No 203 and please see attached a copy of the Complying Development Certificate as per Clause 85A (11) (b) of the Environmental Planning and Assessment Act 1979 No 203 and Clause 130 (4) of the Environmental Planning and Assessment Regulation 2000.

Name of the Principal Certifying Authority	Sean Moore
Building Professionals Board accreditation number	0764
Principal Certifying Authority telephone number	02 9692 8477

Please also see attached a cheque for \$30 which I believe to be the registration fee. Please send a receipt to the above address quoting this job number 11190.

If you have any question please do not hesitate to contact this office.

Regards

A handwritten signature in black ink, appearing to read "SEAN MOORE".

Sean Moore
Metro Building Consultancy

\$30 REC. 317636 16/2/12

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Commercial

Complying Development Certificate

Under Section 85 & 85A of the Environmental Planning and Assessment Act 1979

Applicant's details

Title	Mr <input checked="" type="checkbox"/> Ms <input type="checkbox"/> Mrs <input type="checkbox"/> Other <input type="checkbox"/>				
First Name	Mike	Surname	Stephenson	Position	Project Team Director
Company / Organisation Name	Nordon Jago Architects Pty Ltd				
Address	PO Box 254 Annandale NSW 2038				
Phone No	02 95648808	Fax No	02 95172822	Mobile No	
Email	mstephenson@nordo njago.com				

Owner's details & consent

Title	Mr <input checked="" type="checkbox"/> Ms <input type="checkbox"/> Mrs <input type="checkbox"/> Other <input type="checkbox"/>				
First Name	Popy	Surname	Mourgelas	Position	Manager, Capital Program Delivery
Company / Organisation Name	Dept. Of Education & Communities				
Address	L4, 35 Bridge Street, Sydney NSW 2000				
Phone No	02 95611820	Fax No	02 95618505	Mobile No	
Email	popy.mourgelas@det.nsw.edu.au				

Property & Work details

Property address

Building A
Narrabeen Sports High School
Namona Street
North Narrabeen NSW 2101

Detailed description of the development - Building Work

The project will be developed at Narrabeen Sports High School.

The work will involve the construction of a building trade training centre which will incorporate:

- The refurbishment of existing woodworking workshops on the ground floor of building A, and
- The construction of a new covered outdoor work area adjacent to building A

Existing BCA Classification

Class 9b school

Proposed BCA Classification

Class 9b school

Environmental Planning Instrument (EPI) & Development Control Plan (DCP) details

State Environmental Planning Policy (Infrastructure) 2007

Metro Building Consultancy

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Determination

Date of determination	10/02/12	Date of lapse of this certificate (+5 years)	10/02/15	Determination of application	Approved
Certificate number	11190NarabeenCDC02	Building Professional Board accreditation number	0764		

I confirm that the development is complying development and (if carried out in accordance with the documentation accompanying this certificate) will comply with all development standards applicable to the development with such other requirements prescribed by the Environmental Planning and Assessment Act 1979 No 203 and Environmental Planning and Assessment Regulation 2000 concerning the issue of a complying development certificate.

Name of Accredited Certifier	Sean Moore	Signature of Accredited Certifier	
------------------------------	-------------------	-----------------------------------	--

Fire Safety Schedule

No	Fire Safety Measure	Standard of Performance	Existing Yes / No	Proposed Yes / No
1.	Emergency lighting	AS 2293.1 2005	N	Y
2.	Exit signs	AS 2293.1 2005	N	Y
3.	Fire hydrant systems	AS 2419.1 1988	Y	N
4.	Portable fire extinguishers	AS 2444 2001	Y	Y
5.	Other			

Attachments to the Complying Development Certificate

No.	Item
1.	Copy of Environmental Planning Instrument – State Environmental Planning Policy (Infrastructure) 2007 Part 2 General; Division 5 Complying Development; Part 3 Development Controls; Division 3 Educational Establishments;
2.	Copy of the conditions placed on the issue of the Complying Development Certificate by the Environmental Planning and Assessment legislation.
3.	Copy of Complying Development Certificate application including owners consent dated 09/12/11
4.	Copy of the appointment of the Principal Certifying Authority form dated 09/02/12
5.	Copy of Clause 129B EPAR site inspection
6.	Copy of the Long Service Levy receipt dated 10/02/12
7.	Copy of a letter from Pittwater Council dated 08/04/11 in relation to the development on flood liable land.
8.	Copy of the Section 149 Certificate for the site dated 08/04/11.
9.	Copy of a design statement from Nordon Jago dated 09/12/11 in relation to the State Environmental Planning Policy (Infrastructure) 2007.
10.	Copy of a structural design certificate prepared by Henry & Hymas dated 18/10/11
11.	Copy of Services Design Certificate prepared by Medland Metropolis dated 21/11/11

Drawings approved with the Complying Development Certificate

Discipline	Prepared by:	Drawing and revision numbers
Architectural	Nordon Jago	WD000 (E) 'Cover Page - Site Plan' dated 14/10/11; WD100 (E) 'Existing and Proposed Plan' dated 14/10/11; WD110 (E) 'Proposed Equipment Layout' dated 14/10/11; WD210 (C) 'Internal Wall Elevations' dated 14/10/11; WD211 (C) 'Internal Wall Elevations' dated 14/10/11; WD300 (E) 'Sections & Elevations' dated 14/10/11; WD400 (E) 'RCP & Roof Plan' dated 14/10/11; WD800 (B) 'Door Schedule' dated 14/10/11; WD900 (A) 'Details' dated 14/10/11; WD901 (B) 'Metalwork – Palisade Fence Details' dated 14/10/11; WD910 (B) 'Typical Section Details' dated 14/10/11; WD930 (A) 'Material Board' dated 14/10/11;
Structural	Henry & Hymas	11015-NR-S1.00 (03) 'Construction Notes and Drawing List' dated 17/10/11 11015-NR-S2.00 (03) 'Ground Floor Slab Plan and Details' dated 17/10/11 11015-NR-S2.01 (01) 'Ground Floor Slab Details' dated 17/10/11 11015-NR-S3.00 (03) 'Roof Framing Plan and Details' dated 17/10/11
Electrical	Medland Metropolis	S11139-E01-B 'Legend And Notes' dated 14/10/11 S11139-E02-B 'Site Plan Electrical Reticulation Layout' dated 14/10/11 S11139-E03-B 'Lighting, Power And Communications Demolition Layout' dated 14/10/11 S11139-E04-B 'Level 1 Lighting Layout' dated 14/10/11 S11139-E05-B 'Level 1 Power And Communications Layout' dated 14/10/11
Hydraulic	Medland Metropolis	S11139-H01-B 'Legend And Notes' dated 14/10/11 S11139-H02-B 'Site Plan' dated 14/10/11 S11139-H03-B 'Level 1, Hot & Cold Water & Natural Gas Layout' dated 14/10/11 S11139-H04-B 'Level 1 Sanitary Plumbing & Drainage Layout' dated 14/10/11
Mechanical	Medland Metropolis	S11139-H01-B 'Legend And Notes' dated 14/10/11 S11139-H02-B 'Level 1 Air Conditioning and Ventilation Layout' dated 14/10/11

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008

Part 2 General	Comments
Division 1 Consultation	-
<p>15 Consultation with councils—development with impacts on flood liable land</p> <p>(1) In this clause, flood liable land means land that is susceptible to flooding by the probable maximum flood event, identified in accordance with the principles set out in the manual entitled <i>Floodplain Development Manual: the management of flood liable land</i> published by the New South Wales Government and as in force from time to time.</p> <p>(2) A public authority, or a person acting on behalf of a public authority, must not carry out, on flood liable land, development that this Policy provides may be carried out without consent and that will change flood patterns other than to a minor extent unless the authority or person has:</p> <p>(a) given written notice of the intention to carry out the development to the council for the area in which the land is located, and</p> <p>(b) taken into consideration any response to the notice that is received from the council within 21 days after the notice is given.</p>	See Pitwater Council letter dated 29/06/11 attached to the Complying Development Certificate
<p>16 Consultation with public authorities other than councils</p> <p>(1) A public authority, or a person acting on behalf of a public authority, must not carry out specified development that this Policy provides may be carried out without consent unless the authority or person has:</p> <p>(a) given written notice of the intention to carry out the development to the specified authority in relation to the development, and</p> <p>(b) taken into consideration any response to the notice that is received from that authority within 21 days after the notice is given.</p> <p>(2) For the purposes of subclause (1), the following development is specified development and the following authorities are specified authorities in relation to that development:</p> <p>(a) development adjacent to land reserved under the <i>National Parks and Wildlife Act 1974</i>—the Department of Environment and Climate Change,</p> <p>(b) development adjacent to a marine park declared under the <i>Marine Parks Act 1997</i>—the Marine Parks Authority,</p> <p>(c) development adjacent to an aquatic reserve declared under the <i>Fisheries Management Act 1994</i>—the Department of Environment and Climate Change,</p> <p>(d) development in the foreshore area within the meaning of the <i>Sydney Harbour Foreshore Authority Act 1998</i>—the Sydney Harbour Foreshore Authority,</p> <p>(e) development comprising a fixed or floating structure in or over navigable waters—the Maritime Authority of NSW,</p> <p>(f) development for the purposes of an educational establishment, health services facility, correctional centre or group home, or for residential purposes, in an area that is bush fire prone land (as defined by the Act)—the NSW Rural Fire Service.</p> <p>Note. The Act defines bush fire prone land, in relation to an area, as land recorded for the time being as bush fire prone land on a map certified as referred to in section 146 (2) of the Act.</p> <p>Note. When carrying out development of a kind referred to in paragraph (f), consideration should be given to the publication of the NSW Rural Fire Service <i>Planning for Bush Fire Protection 2006</i>.</p>	The land is not bush fire prone, see S149 cert attached to the Complying Development Certificate
<p>Division 5 Complying development</p> <p>Note. Under section 76A of the Act, development consent for the carrying out of complying development may be obtained by the issue of a complying development certificate.</p> <p>The section states that development cannot be complying development if:</p> <p>(a) it is on land that is critical habitat of an endangered species, population or ecological community (identified under the <i>Threatened Species Conservation Act 1995</i> or the <i>Fisheries Management Act 1994</i>), or</p> <p>(b) it is on land within a wilderness area (identified under the <i>Wilderness Act 1987</i>), or</p> <p>(c) the development is designated development, or</p> <p>(d) the development is on land that comprises, or on which there is, an item of environmental heritage (that is listed on the State Heritage Register or that is subject to an interim heritage order under the <i>Heritage Act 1977</i>), or</p> <p>(e) the development requires concurrence (except a concurrence of the Director-General of the Department of Environment, Climate Change and Water in respect of development that is likely to significantly affect a threatened species, population, or ecological community, or its habitat (identified under the <i>Threatened Species Conservation Act 1995</i>)), or</p> <p>(f) the development is on land identified as an environmentally sensitive area.</p>	NA
<p>20B General requirements for complying development</p> <p>(1) This clause applies to any development that this Policy provides is complying development.</p>	To comply

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008	Comments
<p>(2) To be complying development, the development must:</p> <ul style="list-style-type: none"> (a) not be exempt development under this Policy, and (b) be permissible, with consent, in the land use zone in which it is carried out, and (c) meet the relevant provisions of the <i>Building Code of Australia</i>, and (d) before the complying development certificate is issued, have written consent from the relevant roads authority, if required by the <i>Roads Act 1993</i>: (i) for each opening of a public road required by the development, and (ii) to operate or store machinery, materials or waste required by the development on a road or footpath reserve, and (e) if it is the alteration or erection of improvements on land in a mine subsidence district within the meaning of the <i>Mine Subsidence Compensation Act 1961</i>, have the prior approval of the Mine Subsidence Board, and <p>Note. Information about mine subsidence is information that is a prescribed matter for the purpose of a planning certificate under section 149 (2) of the Act.</p> <ul style="list-style-type: none"> (f) not involve the removal or pruning of a tree or other vegetation that requires a permit or development consent for removal or pruning, unless that removal or pruning is undertaken in accordance with a permit or development consent, and <p>Note. A permit for the removal or pruning of a tree or other vegetation may be granted under a local environmental plan. A development consent for the removal of native vegetation may be granted under the <i>Native Vegetation Act 2003</i>.</p> <ul style="list-style-type: none"> (g) not be carried out within 1m of any public sewer, if the development comprises the erection of a building, except with the written approval of the authority that has management or control of that sewer. <p>20C General conditions of complying development certificates</p> <p>Note. The <i>Protection of the Environment Operations Act 1997</i> and the <i>Protection of the Environment Operations (Noise Control) Regulation 2008</i> contain provisions relating to noise.</p> <ul style="list-style-type: none"> (1) General <p>A complying development certificate for complying development under this Policy is subject to the conditions specified in this clause.</p> <p>Note. The regulations made under the Act contain additional conditions of a complying development certificate.</p> <ul style="list-style-type: none"> (2) Conditions applying before works commence <p>A temporary hoarding or temporary construction site fence must be erected between the work site and adjoining lands before the works begin and must be kept in place until after the completion of works if the works:</p> <ul style="list-style-type: none"> (a) could cause a danger, obstruction or inconvenience to pedestrian or vehicular traffic, or (b) could cause damage to adjoining lands by falling objects, or (c) involve the enclosure of a public place or part of a public place. <p>Note. See the entry for hoardings in Schedule 1. See also the entry for scaffolding, hoardings and temporary construction site fences in the General Exempt Development Code in <i>State Environmental Planning Policy (Exempt and Complying Development Codes) 2008</i>.</p> <ul style="list-style-type: none"> (3) Toilet facilities must be available or provided at the work site before works begin and must be maintained until the works are completed at a ratio of one toilet plus one additional toilet for every 20 persons employed at the site. (4) Each toilet must: <ul style="list-style-type: none"> (a) be a standard flushing toilet connected to a public sewer, or (b) have an on-site effluent disposal system approved under the <i>Local Government Act 1993</i>, or (c) be a temporary chemical closet approved under the <i>Local Government Act 1993</i>. (5) A garbage receptacle must be provided at the work site before works begin and must be maintained until the works are completed. (6) Conditions applying during works <p>Construction or demolition may only be carried out between 7.00 am and 5.00 pm on Monday to Saturday and no construction or demolition is to be carried out at any time on a Sunday or a public holiday.</p> <ul style="list-style-type: none"> (7) Works must be carried out in accordance with the plans and specifications to which the complying development certificate relates. (8) Run-off and erosion controls must be effectively maintained until the site has been stabilised and landscaped. (9) Building, or demolition, materials and equipment must be stored wholly within the work site unless an approval to store them elsewhere is held. (10) Demolition materials and waste materials must be sorted, and must be disposed of at a waste or resource management facility. (11) The work site must be left clear of waste and debris at the completion of the works. (12) Utility services <p>If the complying development requires alteration to, or the relocation of, utility services on the lot on which the complying development is carried out, the complying</p>	
<p>To comply</p>	

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008		Comments
<p>development is not complete until all such works are carried out.</p> <p>(13) Post-works requirements</p> <p>If:</p> <p>(a) the development involves the erection or change of use of a building within a water supply authority's area of operations, and</p> <p>(b) the water supply authority requires a certificate of compliance to be obtained with respect to the erection or change of use of the building, the building cannot be occupied before such a certificate has been obtained.</p> <p>(14) In this clause:</p> <p>certificate of compliance, in relation to a water supply authority, means a certificate of compliance issued by the water supply authority under the Act under which the water supply authority is constituted.</p> <p>water supply authority means:</p> <p>(a) the Sydney Water Corporation, the Hunter Water Corporation or a water supply authority within the meaning of the <i>Water Management Act 2000</i>, or</p> <p>(b) a council or county council exercising water supply, sewerage or stormwater drainage functions under Division 2 of Part 3 of Chapter 6 of the <i>Local Government Act 1993</i>.</p>		
Part 3 Development controls		-
Division 3 Educational establishments		-
<p>27 Definitions</p> <p>In this Division:</p> <p>educational establishment has the same meaning as it has in the Standard Instrument.</p> <p>Note.</p> <p>The term educational establishment is defined by the Standard Instrument as follows:</p> <p>educational establishment means a building or place used for education (including teaching), being:</p> <p>(a) a school, or</p> <p>(b) a tertiary institution, including a university or a TAFE establishment, that provides formal education and is constituted by or under an Act.</p> <p>prescribed zone means any of the following land use zones or a land use zone that is equivalent to any of those zones:</p> <p>(a) RU2 Rural Landscape,</p> <p>(b) RU4 Rural Small Holdings,</p> <p>(c) RU5 Village,</p> <p>(d) RU6 Transition,</p> <p>(e) R1 General Residential,</p> <p>(f) R2 Low Density Residential,</p> <p>(g) R3 Medium Density Residential,</p> <p>(h) R4 High Density Residential,</p> <p>(i) R5 Large Lot Residential,</p> <p>(j) B1 Neighbourhood Centre,</p> <p>(k) B2 Local Centre,</p> <p>(l) B3 Commercial Core,</p> <p>(m) B4 Mixed Use,</p> <p>(n) B5 Business Development,</p> <p>(o) B6 Enterprise Corridor,</p> <p>(p) B7 Business Park,</p> <p>(p1) B8 Metropolitan Centre,</p> <p>(q) SP1 Special Activities,</p> <p>(r) SP2 Infrastructure,</p> <p>(s) E4 Environmental Living.</p> <p>school has the same meaning as it has in the Standard Instrument.</p>		Note

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Compiling Development Codes) 2008

Note. The term *school* is defined by the Standard Instrument as follows:

school means a government school or non-government school within the meaning of the *Education Act 1990*.

TAFE establishment has the same meaning as it does in the *Technical and Further Education Commission Act 1990*.

28 Development permitted with consent

(1) Development for the purpose of educational establishments may be carried out by or on behalf of a public authority with consent on land in a prescribed zone.

(1A) Development for the purpose of educational establishments may be carried out by or on behalf of a person other than a public authority with consent on land in a prescribed zone.

(1B) Subclause (1A) ceases to have effect 3 years after the commencement of that subclause.

(1C) Development for a purpose specified in clause 31A (1) may be carried out by any person with consent on land on which there is an existing school or TAFE establishment.

(2) Development for any of the following purposes may be carried out by any person with consent on any of the following land:

(a) development for the purpose of educational establishments—on land on which there is an existing educational establishment,

(b) development for the purpose of the expansion of existing educational establishments—on land adjacent to the existing educational establishment.

(3) An educational establishment (including any part of its site and any of its facilities) may be used, with consent, for any community purpose, whether or not it is a commercial use of the establishment.

(4) Subclause (3) does not require consent to carry out development on land if that development could, but for this Policy, be carried out on that land without consent.

Note

29 Development permitted without consent

(1) Development for any of the following purposes may be carried out by or on behalf of a public authority without consent on land in a prescribed zone if the development is in connection with an existing educational establishment:

(a) construction, operation or maintenance, more than 5m from any property boundary, of:

(i) a library or an administration building that is not more than one storey high, or

(ii) a portable classroom that is not more than one storey high, or

(iii) a permanent classroom that is not more than one storey high to replace an existing portable classroom and that is used for substantially the same purpose as the portable classroom, or

(iv) a tuckshop, cafeteria or bookshop to provide for students and staff that is not more than one storey high, or

(v) a sporting field, tennis court, basketball court or any other type of court used for sport, and associated awnings or canopies, if the development does not involve clearing of more than 2 hectares of native vegetation, or

(vi) a car park that is not more than one storey high, or

(vii) a toilet block, or

(viii) if the development is on bush fire prone land or if the educational establishment is, or contains, a heritage item—an outdoor learning or play area and associated awnings or canopies,

(b) minor alterations or additions, such as:

(i) internal fitouts, or

(ii) alterations or additions to address occupational health and safety requirements or to provide access for people with a disability,

(c) restoration, replacement or repair of damaged facilities,

(d) demolition of buildings or structures,

(e) environmental management works.

(2) However, subclause (1) only applies to development that:

(a) does not allow for an increase in:

(i) the number of students at the educational establishment, or

(ii) the number of staff employed at the establishment,

that is greater than 10 per cent (compared with the average of each of those numbers for the 12 month period immediately prior to the commencement of the development), and

(b) will not necessitate an alteration of transport or traffic arrangements.

(3) Development for the purpose of a portable one storey classroom may be carried out by any person without consent on land on which a school is located, if the

Note

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008		Comments
classroom is located more than 5m from any property boundary.		
30 Notification of carrying out of certain development without consent (1) This clause applies to development to which clause 29 (1) (a) or (3) applies that is not a project to which Part 3A of the Act applies. (2) Before development to which this clause applies is carried out, the proponent of the development must: (a) give written notice of the intention to carry out the development to the council for the area in which the land is located (unless the proponent is that council) and to the occupiers of adjoining land, and (b) take into consideration any response to the notice that is received within 21 days after the notice is given.		NA
31A Complying development—existing schools and TAFE establishments (1) Development carried out by or on behalf of any person on land within the boundaries of an existing school or TAFE establishment is complying development if: (a) it consists of the construction of, or alterations or additions to, any of the following: (i) a library or an administration building, (ii) a gym, indoor sporting facility or hall, (iii) a classroom, lecture theatre, laboratory, trade or training facility, (iv) a tuckshop, cafeteria, bookshop or child care facility to provide for students or staff (or both), (v) a hall with an associated covered outdoor learning area or tuck shop, (vi) if the development is not on bush fire prone land or if the educational establishment is not, or does not contain, a heritage item—an outdoor learning or play area and associated awnings or canopies, (vii) a car park, and (b) it complies with this clause and clause 20B (General requirements for complying development). (1A) (Repealed) (2) Development carried out by or on behalf of any person on land within the boundaries of an existing school or TAFE establishment is complying development if: (a) it is an alteration or addition referred to in subclause (1) that is carried out for the purpose of a change of use to another use specified in that subclause, and (b) it complies with this clause and clause 20B (General requirements for complying development). (3) Clause 20B (2) (f) does not apply in relation to development carried out under this clause. (4) The following are the development standards for complying development under this clause: (a) Building height standard. The building height of a building must not exceed 12m. (b) Side and rear setback standard. A building must be located at least 5m from any side or rear boundary of the land. (c) Materials standard. Any new external walls or roof of a building must be constructed of non-reflective material. (d) Noise standard. A building to be used for the purpose of a gym, indoor sporting facility or hall that is located less than 20m from a common boundary with land zoned residential must be designed to meet the acoustic performance elements contained in item 11.05.e of the State government publication <i>School Facilities Standards—Design Standard—Version 1/09/2006</i> . (e) Overshadowing standard. A building must not overshadow any adjoining residential property so that: (i) solar access to any habitable room on the adjoining property is reduced to less than the minimum level (being 2 hours of solar access between 9 am and 3 pm at the winter solstice) or is reduced in any manner (if solar access to any habitable room on the adjoining property is already below the minimum level), or (ii) solar access to the principal private open space of the adjoining property is reduced to less than the minimum level (being 3 hours of solar access to not less than 50% of that principal private open space between 9 am and 3 pm at the winter solstice) or is reduced in any manner (if solar access to the principal private open space of the adjoining property is already below the minimum level).		Note
31B (Repealed)		-
31C Complying development certificates—additional conditions A complying development certificate for development that is complying development under this Division is subject to the following conditions (in addition to the conditions set out in clause 20C): (a) (Repealed) (b) any demolition work must be carried out in accordance with AS 2601—2001 <i>The Demolition of Structures</i> , published by Standards Australia on 13 September 2001.		To comply

State Environmental Planning Policy (Infrastructure) 2007

State Environmental Planning Policy (Exempt and Complying Development Codes) 2008	
Comments	
(c) (Repealed) (d) any removal or lopping of vegetation must be carried out in accordance with State government publication <i>School Facilities Standards—Landscape Standard—Version 22 (March 2002)</i> , (e) development must be carried out in accordance with all relevant requirements of the Blue Book, (f) the person having the benefit of the complying development certificate must give at least 2 days' notice in writing of the intention to commence the works to the owner or occupier of any dwelling that is situated within 20m of the lot on which the works will be carried out. (g)–(i) (Repealed)	

CONDITIONS OF THE ENVIRONMENTAL PLANNING AND ASSESSMENT LEGISLATION

Summary	Legislation	Requirement
	Environmental Planning and Assessment Regulation 2000	
BCA	<p>136A Compliance with Building Code of Australia and insurance requirements under the Home Building Act 1989 (cf clauses 78 and 78A of EP&A Regulation 1994)</p> <p>(1) A complying development certificate for development that involves any building work must be issued subject to the following conditions:</p> <p>(a) that the work must be carried out in accordance with the requirements of the Building Code of Australia,</p> <p>(b) in the case of residential building work for which the <i>Home Building Act 1989</i> requires there to be a contract of insurance in force in accordance with Part 6 of that Act, that such a contract of insurance must be entered into and be in force before any building work authorised to be carried out by the certificate commences.</p> <p>(1A) A complying development certificate for a temporary structure that is used as an entertainment venue must be issued subject to the condition that the temporary structure must comply with Part B1 and NSW Part H102 of Volume One of the <i>Building Code of Australia</i> (as in force on the date the application for the relevant complying development certificate is made).</p> <p>(2) This clause does not limit any other conditions to which a complying development certificate may be subject, as referred to in section 85A (6) (a) of the Act.</p> <p>(3) This clause does not apply:</p> <p>(a) to the extent to which an exemption is in force under clause 187 or 188, subject to the terms of any condition or requirement referred to in clause 187 (6) or 188 (4), or</p> <p>(b) to the erection of a temporary building, other than a temporary structure that is used as an entertainment venue.</p> <p>(4) In this clause, a reference to the <i>Building Code of Australia</i> is a reference to that Code as in force on the date the application for the relevant complying development certificate is made.</p> <p>Note. There are no relevant provisions in the <i>Building Code of Australia</i> in respect of temporary structures that are not entertainment venues.</p>	To comply
Signs	<p>136B Erection of signs</p> <p>(1) A complying development certificate for development that involves any building work, subdivision work or demolition work must be issued subject to a condition that the requirements of subclauses (2) and (3) are complied with.</p> <p>(2) A sign must be erected in a prominent position on any site on which building work, subdivision work or demolition work is being carried out:</p> <p>(a) showing the name, address and telephone number of the principal certifying authority for the work, and</p> <p>(b) showing the name of the principal contractor (if any) for any building work and a telephone number on which that person may be contacted outside working hours, and</p> <p>(c) stating that unauthorised entry to the site is prohibited.</p> <p>(3) Any such sign is to be maintained while the building work, subdivision work or demolition work is being carried out, but must be removed when the work has been completed.</p> <p>(4) This clause does not apply in relation to building work, subdivision work or demolition work that is carried out inside an existing building, that does not affect the external walls of the building.</p> <p>(5) This clause does not apply in relation to Crown building work that is certified, in accordance with section 109R of the Act, to comply with the technical provisions of the State's building laws.</p> <p>(6) This clause applies to a complying development certificate issued before 1 July 2004 only if the building work, subdivision work or demolition work involved had not been commenced by that date.</p> <p>Note. Principal certifying authorities and principal contractors must also ensure that signs required by this clause are erected and maintained (see clause 227A which currently imposes a maximum penalty of \$1,100).</p>	To comply
Asbestos	<p>136E Development involving bonded asbestos material and friable asbestos material</p> <p>(1) A complying development certificate for development that involves building work or demolition work must be issued subject to the following conditions:</p> <p>(a) work involving bonded asbestos removal work (of an area of more than 10 square metres) or friable asbestos removal work must be undertaken by a person who carries on a business of such removal work in accordance with a licence under clause 318 of the <i>Occupational Health and Safety Regulation 2001</i>,</p> <p>(b) the person having the benefit of the complying development certificate must provide the principal certifying authority with a copy of a signed contract with such a person before any development pursuant to the complying development certificate commences,</p> <p>(c) any such contract must indicate whether any bonded asbestos material or friable asbestos material will be removed, and if so, must specify the landfill site (that may lawfully receive asbestos) to which the bonded asbestos material or friable asbestos material is to be delivered.</p> <p>(2) This clause applies only to a complying development certificate issued after the commencement of this clause.</p> <p>(3) In this clause, <i>bonded asbestos material</i>, <i>bonded asbestos removal work</i>, <i>friable asbestos material</i> and <i>friable asbestos removal work</i> have the same meanings as in clause 317 of the <i>Occupational Health and Safety Regulation 2001</i>.</p> <p>Note 1. Under clause 317 removal work refers to work in which the bonded asbestos material or friable asbestos material is removed, repaired or disturbed.</p> <p>Note 2. The effect of subclause (1) (a) is that the development will be a workplace to which the <i>Occupational Health and Safety Regulation 2001</i> applies while removal work involving bonded asbestos material or friable asbestos material is being undertaken.</p> <p>Note 3. Information on the removal and disposal of asbestos to landfill sites licensed to accept this waste is available from the Department of Environment, Climate Change and Water.</p> <p>Note 4. Demolition undertaken in relation to complying development under the <i>State Environmental Planning Policy (Exempt and Complying Development Codes) 2008</i> must be carried out in accordance with Australian Standard AS 2601—2001, <i>Demolition of structures</i>.</p>	To comply
Demolition		To comply

Metro Building Consultancy

Studio 1.05/56 Bowman St. Pyrmont NSW 2009
P: 02 9692 8477 F: 02 8209 4955 E: admin@metrobc.com.au
www.metrobc.com.au



Commercial

Complying Development Certificate Application Form

Under Section 85 & 85A of the Environmental Planning and Assessment Act 1979

Applicant's details (The applicant must be owner of the property or have the owner's consent to make the application)

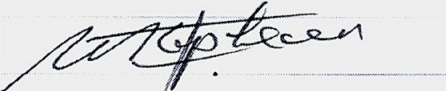
Title Mr ☒ Ms ☐ Mrs ☐ Other ☐

First Name **MIKE** Surname **STEPHENSON** Position **PROJECT TEAM LEADER**

Company / Organisation Name **NORDON JAGO ARCHITECTS PTY LTD.**

Address **PO BOX 254 ANNANDALE NSW 2038**

Phone No **95648808** Fax No **95172822** Mobile No **—** Email **mstephenson@nordonjago.com**

Signature  Date **9/12/11**

Owner's details & consent (To be completed by each owner)

Title Mr ☐ Ms ☒ Mrs ☐ Other ☐


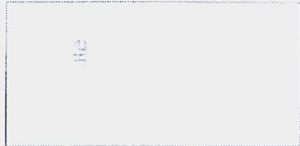
First Name **Peter** Surname **Wallace** Position **Minister for Education & Training**

Company / Organisation Name **Department of Education & Communities**

Address **Level 4, 35 Bridge St, Sydney NSW 2000**

Phone No **95611820** Fax No **95618505** Mobile No Email **peter.wallace@det.nsw.edu.au**

Owner's statement – I / we confirm that I am / we are the owner(s) of the land and that I / we consent to the making of the application for a Complying Development Certificate by the applicant. (Where the owner's consent is granted by a company or person representing the owner's provide proof of authority)

Signature  Date **9/12/11** Stamp 

Signed by me **P. Wallace** as delegate of the Minister for Education and Training pursuant to Section 125 of the Education Reform Act 1990 and I hereby certify that I have no notice of the revocation of such delegation.

Office Use ☐ Date of receipt **9/12/11** Received by: **SEAN MARE**

Property details

Property address

Narrabeen Sports High School
Namona Street
North Narrabeen NSW 2101

Detailed description of the development - Building Work

The project will be developed at Narrabeen Sports High School.

The work will involve the construction of a building trade training centre which will incorporate:

- The refurbishment of existing woodworking workshops on the ground floor of building A, and
- The construction of a new covered outdoor work area adjacent to building A

Lot Number
DP Number

Lot 2, 3 & 4 DP
1018621
Lot 11 & 12 DP
1119562

Estimated cost of works incl. GST

\$486,300

Existing BCA Classification

Class 9b school

Proposed BCA Classification

Class 9b school

For each proposed new building

No. of storeys (incl underground storeys) in the building

1

The gross floor area of the building (m²)

410

The gross site area of the land (m²)

12,376 m²

The estimated area (if any), of bonded asbestos material or friable asbestos material that will be disturbed, repaired or removed in carrying out the development (m²)

0

Principal contractor's details

Name

NSW Public Works

Contact person

David Munson

Checklist of information required to accompany the application

Included?
Y/N

Architectural, Structural & Services Drawings	Y
Electronic copies (PDFs) of the specifications	Y
The most recent Annual Fire Safety Statement for the school, if available	TBA
Section 149 Certificate	Y
Structural and Services Design Certification	TBA

Metro Building Consultancy

Studio 1.05/56 Bowman St, Pyrmont NSW 2009
P: 02 9692 8477 F: 02 8209 4955 E: admin@metrobc.com.au
www.metrobc.com.au



Notice of commencement of building work and Appointment of the Principal Certifying Authority

Under Section 81A (2)(b)(i), (b1)(i),(c); 86(1) and 109E of the Environmental Planning and Assessment Act 1979 and 103 of the Environmental Planning and Assessment Regulation 2000

Details of the person appointing the Principal Certifying Authority

(The person must have the benefit of the Development Consent or Complying Development Certificate.)

Title	Mr <input checked="" type="checkbox"/> Ms <input type="checkbox"/> Mrs <input type="checkbox"/> Other <input type="checkbox"/>		
First Name	Mike	Surname	Stephenson
Position	Project Team Leader		
Company / Organisation Name	Nordon Jago Architects Pty Ltd		
Address	103C Parramatta Road, Annandale NSW 2038		
Phone No	02 9564 8800	Fax No	02 9517 2833
Mobile No	-	Email	mstephenson@nordonjago.com

Date of commencement of the building works

13/2/12

Declaration

Applicant's statement – I confirm that I consent to the appointment of Sean Moore (Building Professionals Board accreditation number 0764) as the **Principal Certifying Authority** for this project.

Signature		Date	9/02/2012
-----------	--	------	-----------

FOR & ON BEHALF OF NORDON JAGO ARCHITECTS
Consent to being appointed as the Principal Certifying Authority

Principal Certifying Authority's statement – I Sean Moore, Studio 1.05/56 Bowman St, Pyrmont NSW 2009, Building Professionals Board accreditation number 0764 in accordance with Clause 103 f of the Environmental Planning and Assessment Regulation 2000 consent to being appointed as the Principal Certifying Authority for the development.

Signature		Phone Number	02 9692 8477	Fax Number	02 8209 4955
-----------	--	--------------	--------------	------------	--------------

Property details

Property address

Block A
Narrabeen Sports High School
Namona Street
North Narrabeen NSW 2101

Detailed description of the development - Building Work

The project will be developed at Narrabeen Sports High School. The work will involve the construction of a building trade training centre which will incorporate:

- The refurbishment of existing woodworking workshops on the ground floor of building A, and
- The construction of a new covered outdoor work area adjacent to building A

Lot Number	Lot 2, 3 & 4 DP 1018621
DP / SP Number	Lot 11 & 12 DP 1119562
Vol / Fol	

Estimated cost of works incl. GST	\$410,930.00
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Development Consent or Complying Development Certificate details

CDC / Development Consent No.	1190CD02	Date of Consent	10/2/12
Name of the Consent Authority	SEAN MOORE		

Metro Building Consultancy

Studio 1.05/56 Bowman St, Pyrmont NSW 2009
P: 02 9692 8477 F: 02 8209 4955 E: admin@metrobc.com.au
www.metrobc.com.au



Record of Inspection

Under Section 129B and 129C of the Environmental Planning and Assessment Regulations 2000

Date of the application for the Complying Development Certificate 09/12/11

Address of the property where the inspection was carried out

Building A, Narrabeen Sports High School, Namona Street, North
Narrabeen NSW 2101

Type of inspection

Pre Complying Development Certificate issue Section 129B Environmental
Planning and Assessment Regulation 2000 inspection

The date on which the inspection was carried out.

19/08/11

If the inspection was carried out by a council, the name of the council and the identity and signature of the individual who carried out the inspection on behalf of the council.

NA

If the inspection was carried out by an accredited certifier, the identity of the accredited certifier, including, in a case where the accredited certifier is an accredited body corporate, the identity of the individual who carried out the inspection on behalf of the body corporate.

Sean Moore

If the inspection was carried out by an accredited certifier, the accreditation number of the accredited certifier, including, in a case where the accredited certifier is an accredited body corporate, the accreditation number of the individual who carried out the inspection on behalf of the body corporate.

Building Professionals Board
accreditation number 0764

Details of the current fire safety measures in the existing buildings on the site that will be affected by the proposed development concerned

No	Fire Safety Measure	Standard of Performance	Existing Yes / No	Proposed Yes / No
1.	Emergency lighting	AS 2293.1 2005	N	Y
2.	Exit signs	AS 2293.1 2005	N	Y
3.	Fire hydrant systems	AS 2419.1 1988	Y	N
4.	Portable fire extinguishers	AS 2444 2001	Y	Y
5.	Other			

Details as to whether or not the plans and specifications accompanying the application for the complying development certificate adequately and accurately depict the existing site conditions

The plans submitted adequately
and accurately depict the existing
site conditions

Details of any features of the site, or of any building on the site, that would result in the proposed development the subject of the application for the complying development certificate

- (i) not being complying development
- (ii) not complying with the *Building Code of Australia*

No feature of the site would result in the proposed development not being complying development or not complying with the Building Code of Australia

6



10 February 2012

NSW PUBLIC WORKS
PO BOX 8320
BAULKHAM HILLS NSW 2093

Long Service Corporation
Level 1
19-21 Watt Street
Gosford NSW 2250
Locked Bag 3000
Central Coast MC NSW 2252
Tel: 13 14 41
Fax: (02) 9287 5685
Email: info@longservice.nsw.gov.au
www.longservice.nsw.gov.au
ABN 93 646 090 808

Levy Receipt

Receipt No.

00110983

Received from: (Name of person or organisation paying for levy)

the amount of

NSW PUBLIC WORKS

\$1,438.00

Payment details:

Cheque 321371 \$1,438.00 DEPARTMENT OF FINANCE AND SERVICES

being payment for Long Service Levy as detailed below

Levy Payment Form number	0320196
Council/Department/Authority	MANLY COUNCIL
C.D.C. Number	11190CDC02
Work address	10 NAMONA STREET NARRABEEN NSW 2101
Estimated value of work	\$410,930.00
Levy payable (No exemption)	\$1,438.00
Total levy paid	\$1,438.00

Signed: (Signature of authorised person)

Date

Dylan Seavey

10.2.12



Jennifer Pang, Manager, Catchment Management and Climate Change
8am to 5:30pm Monday - Thursday, 8am to 5pm Friday
Phone 9970 1209

29 June 2011

Mr Michael Stephenson
Nordon Jago Architects Pty Ltd
PO Box 254
ANNANDALE NSW 2038

Dear Mr Stephenson

Re: Development of Flood Liable Land at Narrabeen Sports High School

Thank you for the opportunity to consider the NSW Department of Public Works' concept plans for minor internal alterations to Narrabeen Sports High School.

The school property is identified on Council's floodplain mapping as a Category 1 - High Hazard floodplain area with a Flood Planning Level of 3.5mAHD. Further flood information for the property may be obtained by using Council's Flood and Estuarine Levels Tool at http://www.pittwater.nsw.gov.au/building_and_development/property_information/flood_and_estuarine_levels.

The proposed works comprising of an internal fit out to an existing class room into a workshop should consider:

- All structural elements below the Flood Planning Level should be constructed from flood compatible materials;
- All structures should be designed and constructed to ensure structural integrity for immersion and impact of velocity and debris up to the level of the 1% AEP flood;
- All electrical equipment, wiring, fuel lines or any other service pipes and connections should be waterproofed to the Flood Planning Level;
- The storage of toxic or potentially polluting goods, materials or other products, which may be hazardous or pollute floodwaters, should not be permitted below the Flood Planning Level.

The proposed works comprising of a new fenced covered outdoor work area should consider all the factors listed above, in addition to ensuring that a minimum of 50% of the area of the fence is 'open', for the full height of the fence, to allow for the passage of floodwaters through the fence.

Should you require further information, I may be contacted on 9970 1209.

Yours sincerely

Jennifer Pang
MANAGER, CATCHMENT MANAGEMENT & CLIMATE CHANGE

PITTWATER COUNCIL
Section 149 Pt 2 & 5 Planning Certificate
Environmental Planning & Assessment Act, 1979

Applicant: GRAHAM JAGO
103C PARRAMATTA RD
ANNANDALE NSW 2038

Cert. No: e149/11/0332
Cert. Date: 8/04/2011
Fee: \$100.00
Property No: 93798

Your Reference:

Address of Property: 10 NAMONA STREET
NORTH NARRABEEN NSW 2101

Description of Property: Lot 12 DP 1119562

Strata Unit Details (if applicable):

County: Cumberland

Parish: Narrabeen

PLEASE NOTE:

The zoning information in this certificate is based on the lot and plan number referred to in this Certificate. If the lot and plan number is not the current description of the land then this Certificate will be incorrect. Persons relying on this Certificate should satisfy themselves by reference to the Title Deed that the land to which this Certificate relates is identical to the land the subject of the enquiry.

A reference in this certificate to any instrument, including Pittwater Local Environmental Plan 1993, is a reference to that instrument, as amended.

Pittwater Council ABN 61 340 837 871

All correspondence to be addressed to General Manager:
Village Park,
1 Park Street,
MONA VALE NSW
P O Box 882
MONA VALE NSW 1660
DX 9018 MONA VALE

Telephone (02) 9970 1111
Facsimile (02) 9970 7150
Internet: www.pittwater.nsw.gov.au
Email: pittwater_council@pittwater.nsw.gov.au

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Article 10 of the Pittsburgh Courier, dated 1993

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or a**Exempt and complying development**

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Note: There are other provisions and development standards within the Pittwater LEP 1993 (including model provisions) which affect the carrying out of development. If you propose to carry out development on the land, you should consider these clauses. You are also advised to consider obtaining professional advice regarding the full effect of the Pittwater LEP and other environmental planning instruments, which may affect the land.

RELEVANT PLANNING INSTRUMENTS AND DEVELOPMENT CONTROL PLANS

EP... 2000
C... 4 C... 1

LOCAL ENVIRONMENTAL PLAN

EP... 2000
C... 4 C... 1

Pittwater Local Environmental Plan 1993

PROPOSED LOCAL ENVIRONMENTAL PLANS

EP... 2000
C... 4 C... 1

Note: Where no information has been provided under the heading "PROPOSED LOCAL ENVIRONMENTAL PLANS", Council is unaware of any Proposed Local Environmental Planning Instrument that is or has been the subject of community consultation or on public exhibition under the Act, applying to the land.

DEVELOPMENT CONTROL PLANS

EP... 2000

Clause 4 Clause 13

Pittwater 21 DCP

The purpose of this plan is to provide best practice standards for development

DCP No. 22 - Exempt and Complying Development

The Plan aims to:

to clearly define the types of development that do not require consent and can be carried out without a formal application to Council; and to provide a clear definition of development that can be carried out without consent that is not a residential development.

to clearly define development that can be carried out without consent that is not a residential development in the Environment Planning and Assessment Act that requires a development certificate to be issued by Council or an accredited private certifier before starting construction; and to provide a clear definition of development.

STATE ENVIRONMENTAL PLANNING POLICIES AND PROPOSED STATE ENVIRONMENTAL PLANNING POLICIES

EP&A Regulation 2000

Clause 4 Clause 11

Deemed SEPP - Hawkesbury-Nepean River (No. 2 - 1999)

SEPP NO. 1 - Development Standards (gazetted 14.10.00)

SEPP NO. 4 - Development Without Consent and Miscellaneous Exempt and Complying Development (gazetted 4.12.00)

SEPP NO. 5 - Number of Storeys in a Building (gazetted 10.12.02)

SEPP NO. 19 - Bushland in Urban Areas (gazetted 24.10.00)

SEPP NO. 21 - Caravan Parks (gazetted 24.4.92)

SEPP NO. 22 - Shops and Commercial Premises (gazetted 9.1.00)

SEPP NO. 30 - Intensive Agriculture (gazetted 12.09)

SEPP NO. 32 - Urban Consolidation (Redevelopment of Urban Land) (gazetted 15.11.91)

SEPP NO. 33 - Hazardous and Offensive Development (gazetted 13.03.92)

SEPP NO. 44 - Coastal Habitat Protection (gazetted 01.95)

SEPP NO. 50 - Canal Estate Development (gazetted 10.11.90)

SEPP NO. 55 - Remediation of Land (gazetted 20.09)

SEPP NO. 62 - Sustainable Aquaculture

SEPP NO. 64 - Advertising and Signage (gazetted 13.2001)

SEPP NO. 65 - Design Quality of Residential Flat Development (gazetted 20.2002)
Amendment 2 (gazetted 4.2000)

SEPP NO. 66 - Coastal Protection (Gazetted 1.11.2002)

SEPP - (Housing for Seniors or People With a Disability) 2004 (gazetted 20.2000)

SEPP - Building Sustainability Index (BASIX) (gazetted 1.2004)

SEPP - (Major Projects) 2005 (gazetted 25.05.2005)

SEPP - (Mining & Petroleum Production & Extractive Industries) 2000 (gazetted 1.02.2000)

SEPP - (Temporary Structures & Places of Public Entertainment) 2000 (gazetted 20.09.2000)

SEPP - (Infrastructure) 2000 (gazetted 21.12.2000)

Draft SEPP NO. 67 - Integration of Land Use and Transport

Draft SEPP (Application of Development Standards) 2004

SEPP - (Affordable Rental Housing) 2009

SEPP - (Exempt & Complying Development Codes) 2000 (gazetted 12.12.2000) As amended

Note: Clause 29 of the Environmental Planning and Assessment (Savings and Transitional) Regulation 1998 affects the provisions of certain State Environmental Planning Policies and how they apply to the land. A copy of clause 29 is attached and should be read in conjunction with the State Environmental Planning Policies listed.

ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006EP(A) Regulation 2000
clause 4 Clause 2A

Note: Where no information has been provided under the heading "ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006", then such information is inapplicable to the land the subject of this certificate.

COMPLYING DEVELOPMENTEP(A) Regulation 2000
clause 4 Clause 3**GENERAL HOUSING CODE**

Complying development under the General Housing Code cannot be carried out on the land
the land affects specific development:

Land identified on a Aerial Photograph or an Aerial Photograph Clause 2

RURAL HOUSING CODE

Complying development under the Rural Housing Code cannot be carried out on the land
complying development is carried out on the part of the lot to which clause 119 of EP(A) Regulation 2000
Complying Development Code 2008 does not apply

the land affects specific development:

Land identified on a Aerial Photograph or an Aerial Photograph Clause 2

HOUSING ALTERATIONS CODE

Complying development under the Housing Alterations Code cannot be carried out on the land

GENERAL DEVELOPMENT CODE

Complying development under the General Development Code cannot be carried out on the land

GENERAL COMMERCIAL AND INDUSTRIAL CODE

Complying development under the Commercial and Industrial Code cannot be carried out on the land

SUBDIVISION CODE

Complying development under the Subdivision Code cannot be carried out on the land

DEMOLITION CODE

- (a) The land is not affected by any road widening or road realignment under Division 2 of Part 3 of the Roads Act 1993.
- (b) The land is not affected by any road widening or road realignment under any environmental planning instrument.

- (c) The land is not affected by any road widening or road realignment under any resolution of Council.

Note: The Roads and Traffic Authority may have proposals that are not referred to in this item. For advice about affectation by RTA proposals, contact the Roads and Traffic Authority.

COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

EP&A Regulations 2000
Schedule 4 Clause 4

Council has adopted a number of policies with regard to various hazards or risks which may restrict development.

The identified hazard or risk and the respective Council policies which affect the property, if any, are listed below.

The property is affected by the following policies adopted by any other planning authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates that restricts development of the property from the following acid sulphate soils:

Acid Sulphate Soil Manual

Council also has regard to the Acid Sulphate Soil Manual prepared jointly by the Department of Land and Water Conservation and the Department of Urban Affairs and Planning. For further information please contact Council's Natural Resources Unit.

The property is not affected by any other policy adopted by any other planning authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates that restricts development of the property because of the likelihood of land slip, bushfire, tidal inundation, subsidence or any other risk (other than flooding).

Note 1: The absence of a policy to restrict development of the land because of the likelihood of any other risk does not imply that the land is free from risk. Detailed investigation carried out in conjunction with the preparation or assessment of an application may result in the Council imposing restrictions on development that are not identified above.

Note 2: The Geotechnical Risk Management Policy for Pittwater also applies to certain forms of development as outlined in clause 3.2 (b) (iii) and (iv) of that policy. For your information, see extract below:

3.2 (b) (iii)

Development Applications that include:

- ☐ excavations greater than 1 metre deep, the edge of which is closer to the site boundary or a structure to be retained on the site, than the overall depth of the excavation and/or
- ☐ any excavation greater than 3 metres deep below the existing surface and/or
- ☐ any excavation that has the potential to destabilise a tree capable of collapsing in a way that any part of the tree could fall onto adjoining structures (proposed or existing) or adjoining property and/or
- ☐ any fill greater than 1.0 metres and/or
- ☐ any works that may be affected by geotechnical processes or which may impact on geotechnical processes including but not limited to construction on sites with low bearing capacity soils.

3.2 (b) (iv)

Utility Companies and Public Authorities including Pittwater Council

- ☐ The Geotechnical Risk Management Policy 2000 is to apply to all works by Council or any Authority on public land where identified on the Geotechnical Risk Management Map (P21DCP - BCMDCP03) and subject to Part 4 of the Environmental Planning and Assessment Act requiring the lodgement of a Development Application.
- ☐ In relation to other works on public lands and on road reserves subject to Part 5 of the Environmental Planning & Assessment Act, is to be in accordance with

Pittwater Council's Geotechnical Risk Management strategy for Council Assets.

FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

EP&A Regulations 2000
Schedule 4 Clause 1A

On the information available to Council, the land in question is affected by the Flood Planning Level and the Probable Maximum Flood and is therefore classified as Category 1 High Hazard in Council's Flood Risk Management Policy for Pittwater.

The land in question is subject to flood related development controls for the purposes (where permissible) of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings.

The land in question is also subject to flood related development controls for any other purpose.

Development controls are set out in Council's Pittwater 21 Development Control Plan.

Notes

Flood level have been determined on the available information from the most recent flood analysis incorporating a rainfall model, river cross section and contour plan. Flood Level are available from Council's website and can be compared to the river floor level and crown level to assess flood risk.

On the information available to Council the land in question may be subject to high velocity and/or wet ground flood event and therefore classified as being subject to a high hazard under Council's flood management policy for Pittwater. Advice can be sought from Council regarding the hazard classification of the land.

LAND RESERVED FOR ACQUISITION

EP&A Regulations 2000
Schedule 4 Clause 1

This land is not affected by any environmental planning instrument or proposed environmental planning instrument which provides for the acquisition of the land by a public authority, as referred to in section 2 of the Act.

CONTRIBUTIONS PLANS

EP&A Regulations 2000
Schedule 4 Clause 9

Space Plan, Noise, Open Space, Bushland and Recreation

This Plan was approved by Council to levy monetary contributions to ensure that an adequate level of open space, bushland and recreation opportunities are provided as new development occurs.

Space Plan, Noise, Pedestrian, Library and Services

This Plan was approved by Council to levy monetary contributions to meet the recreational and informational needs of the potential incoming population as a result of residential subdivision of land, dual occupancy development and medium density residential development. This will be achieved by increasing available library resources and equipment and improving the capacity of library infrastructure.

Space Plan, Noise, Material Public Benefit, Bushland and Dedication of Land

This Plan was approved by Council to enable Council to accept a material public benefit (other than the dedication of land or payment of money), and to enable Council to accept a dedication of land where there is a need for public services or public amenities as a result of new development.

Space Plan, Noise, Council or Council Sought Contributions

This Plan was approved by Council to levy monetary contributions for the provision of an adequate level of community service facilities to meet the demand as new residential development occurs.

Streetscape Plan

This Plan was approved by Council to levy contributions towards the provision, extension or augmentation of village streetscapes in Pittwater's main commercial areas which will be required as a consequence of development in the Pittwater Local Government Area.

BIOBANKING AGREEMENTS

EP&A Regulations 2000
Schedule 4 Clause 10

Note: Where no information has been provided under the heading "BIOBANKING AGREEMENTS", then Council is unaware of any such agreement applying to the land the subject of this certificate.

BUSH FIRE PRONE LAND

EP&A Regulations 2000
Schedule 4 Clause 11

This land the subject of this certificate is not identified on a Bush Fire Prone Land map certified by the Commissioner of the NSW Rural Fire Service as being bush fire prone land as per the Rural Fires and Environmental Assessment Legislation Amendment Act 2002 s 6.

PROPERTY VEGETATION PLANS

EP&A Regulations 2000
Schedule 4 Clause 12

Note: Where no information has been provided under the heading "PROPERTY VEGETATION PLANS", then such information is inapplicable to the land the subject of this certificate.

ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

EP&A Regulations 2000
Schedule 4 Clause 13

Note: Where no information has been provided under the heading "ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006", then such information is inapplicable to the land the subject of this certificate.

DIRECTIONS UNDER PART 3A

EP&A Regulations 2000
Schedule 4 Clause 14

Note: Where no information has been provided under the heading "DIRECTIONS UNDER PART 3A", then such information is inapplicable to the land the subject of this certificate.

SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING

EP&A Regulations 2000
Schedule 4 Clause 15

Note: Where no information has been provided under the heading "SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR SENIORS HOUSING", then Council is unaware of any such site compatibility certificate applying to the land the subject of this certificate.

SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

EP&A Regulations 2000
Schedule 4 Clause 16

Note: Where no information has been provided under the heading "SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE", then Council is unaware of any such site compatibility certificate applying to the land the subject of this certificate.

SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

EP&A Regulations 2000
Schedule 4 Clause 16

Note: Where no information has been provided under the heading "SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING", then Council is unaware of any such site compatibility certificate applying to the land the subject of this certificate.

MATTERS ARISING UNDER THE CONTAMINATED LAND MANAGEMENT ACT 1997

Contaminated Land Management Act 1997
Section 59 (2)

Note: Where no information has been provided under the heading "MATTERS ARISING UNDER THE CONTAMINATED LAND MANAGEMENT ACT 1997", then such information is inapplicable to the land the subject of this certificate.

DEMOLITION OF BUILDINGS

Pittwater Local Environmental Plan 1993 does not require development consent for the demolition of a building other than for the demolition of any building or work which is an item of environmental heritage or within a heritage conservation area under Pittwater Local Environmental Plan 1993. Where Pittwater Local Environmental Plan 1993 does not require the need for a development consent, clause 29 of the Environmental Planning and Assessment (Savings and Transitional) Regulation 1997 provides that development consent is required for the demolition of a building.

Note: Please also refer to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 as amended

Note: Please see section headed "HERITAGE CONSERVATION MAP – SCHEDULE 9" to establish if the land the subject of this certificate has been identified as having heritage significance under PLEP 1993.

Note: This advice only relates to the need to obtain development consent under the Environmental Planning & Assessment Act 1979, as amended, and Pittwater Local Environmental Plan 1993. Demolition and other controls may also apply under the Heritage Act 1977.

OTHER RELEVANT MATTERS PROVIDED UNDER SECTION 159 OF THE EP&A ACT 2000

The following matters are provided under Section 159 of the EP&A Act 2000:
Planning and Assessment Act 1979, as amended, and Pittwater Local Environmental Plan 1993. Demolition and other controls may also apply under the Heritage Act 1977.

COMPANY TITLE SUBDIVISION

Clause 10 of the Pittwater Local Environmental Plan 1993 provides that land may not be subdivided except with the consent of the Council. The following matters are provided under Section 159 of the EP&A Act 2000:
Persons considering purchasing property in the Pittwater local

tract clause 9 environmental planning and Assessment
 saving and rationalisation 199

29

- (1) This clause applies to development consisting of
- (a) a prescribed activity proposed to be carried out within the area of a council, or
 - (b) the subdivision of land within the area of a council, including development proposed to be carried out in connection with an existing use, but not including development referred to in subclause (2).
- (2) This clause does not apply to development of the kind referred to in subclause (1) that consists of
- (a) any activity that, immediately before the appointed day, was specified in item 6 of Part A of the Table to section 6 of the unamended Act 1993 (relating to the use and occupation of uncompleted buildings), or
 - (b) any prescribed activity (other than an activity referred to in paragraph (a)) that, immediately before the appointed day, was exempted, excluded or suspended from the requirement for approval under the unamended Act 1993
 - (i) by the *Local Government Approval Legislation* 1993, as in force immediately before the appointed day, or
 - (ii) by a local approvals policy in force under the unamended Act 1993 (being a local approvals policy that is still in force at the time the development application for development consent is made), or
 - (iii) by or under the provisions of any Act, including the provisions of an environmental planning instrument of a kind referred to in section 2 of the unamended EP&A Act 1999, or
 - (c) any subdivision of land that, immediately before the appointed day, was exempted from the requirements for approval under the repealed Act 1919 by or under the provisions of that or any other Act, including the provisions of an environmental planning instrument of a kind referred to in section 2 of the unamended EP&A Act 1999, or
 - (d) any development
 - (i) carried out by the Crown, or
 - (ii) carried out by any person prescribed by the amended EP&A Regulation 1994 for the purposes of section 115M of that Act (as referred to in section 115 (a) of that Act) in relation to Crown building work, being development that, immediately before the appointed day, constituted an activity within the meaning of Part 5 of the unamended EP&A Act 1999,
 - (d1) any development consisting of the demolition of a building or work
 - (i) carried out by the Crown, or
 - (ii) carried out by any person prescribed by the amended EP&A Regulation 1994 for the purposes of section 115M of that Act (as referred to in section 115 (a) of that Act) in relation to Crown building work,
 - (d2) any development consisting of subdivision
 - (i) carried out by the Crown, or
 - (ii) carried out by any person prescribed by the amended EP&A Regulation 1994 for the purposes of section 115M of that Act (as referred to in section 115 (a) of that Act) in relation to Crown building work,
 - (d3) any non structural alterations to a building
 - (i) carried out by the Crown, or
 - (ii) carried out by any person prescribed by the amended EP&A Regulation 1994 for the purposes of section 115M of that Act (as referred to in section 115 (a) of that Act) in relation to Crown building work,
 - (e) any prohibited development, or
 - (f) (Repealed)
 - (g) any activity within the meaning of Part 5 of the Act
 - (i) in respect of which an application for approval to a determining authority within the meaning of that Part has been made, but not finally determined, immediately before the appointed day, or
 - (ii) which was approved by a determining authority within the meaning of that Part before the appointed day and that commences pursuant to that approval not later than 3 years after the appointed day.
- (3) Development to which this clause applies may not be carried out except with development consent.
- (4) Development consent may not be granted in relation to development for a prescribed activity that involves the erection of a building unless the requirements of Division 4 of Part 1 of Chapter of the unamended Act 1993 have been complied with.
- (5) The requirements relating to the notification of proposed development under the amended EP&A Act 1999 (including any requirements applied by clause 32 (1)) do not apply to a development application for development for which the requirements referred to in subclause (4) are required to be complied with.
- (6) Subclauses (4) and (5) apply only if a local approvals policy (being a local approvals policy with respect to the notification of applications for approvals) is in force under the unamended Act 1993 at the time the development application for development consent is made.
- (7) This clause has effect
- (a) despite the existing provisions of an existing EP, and
 - (b) despite any re-zoning of land (whether effected by existing or new provisions of an existing EP or otherwise), but is otherwise subject to the provisions of any new EP and to any new provisions of an existing EP.
- (8) Nothing in this clause requires development consent to be obtained for any development for which development consent is required to be obtained otherwise than by operation of this clause.
- (9) The consent authority for the purposes of development to which this clause applies is the council unless, by or under the Act, some other person is the consent authority for the purposes of that development.
- (9) Despite Part 9 of the amended EP&A Regulation 1994, the fee for an application to carry out development of the kind to which this clause applies, being the erection of a building within the meaning of the unamended Act 1993, is the fee determined in accordance with an order under clause 33.
- (10) (Repealed)
- (11) This clause ceases to have effect on 1 July 2001.

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Mike Stephenson MStephenson@nordonjago.com

Friday, 9 December 2011 10:00 AM

Sean Moore

Andy Twine

TTC Barrabeen Sports High School Complying Development Certificate
Certificates 4.D 149Pt2&5 42412.pdf P E00111 B CDC form 111209.pdf



Sean,

Please find attached, to be read in conjunction with latest drawings and specifications as previously sent, the following documents

- Completed CDC form
- Structural Design Certificate
- Section 149 Certificate

Please note we are awaiting the following

- Annual Fire Safety Certificate
- Services Design Certificates

As for the Blue Mountains schools, we understand that the Long Service Levy will be paid by the contractor we understand that you cannot sign off the CDC until this is done.

Please also see below responses to your previous queries

- Will the new building be carried out within 1m of any public sewer, if so written approval is required from the authority that has management or control of the sewer?
No
- Is the building located at least 5m from any side or rear boundary of the land.
Yes
- Is the new external walls and roof of the building to be constructed of non-reflective material?
Yes
- Will the development be carried out in accordance with all relevant requirements of the Blue Book? See hydraulic design certificate attached.
Yes - refer to updated specification sent by Andy Twine in email dated 25 November 2011

- Will the person having the benefit of the complying development certificate give at least 2 days' notice in writing of the intention to commence the works to the owner or occupier of any dwelling that is situated within 20m of the lot on which the works will be carried out?
Yes

Regards

M S

N A

02 9564 0000 (direct)

02 9564 0000 (main)

02 951 2133

mstephenson@nordoniago.com

www.nordoniago.com

Address - 103C Parramatta Road, Annandale, NSW 2038, Australia.
Postal Address - Po Box 254, Annandale, NSW 2038.

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DESIGN CERTIFICATE

Under Clause A2.2 of the Building Code of Australia Volume 1

Project Details

Project name	Trade Training Centre
Project address	Narrabeen Sports High School Namona Street, North Narrabeen NSW 2101
Whole or part of the building to which the certificate relates?	Refurbishment of Block A and a new covered outdoor working area
Description of the work	Refurbishment of existing Trade Training Centre

Designer's Details

Company Name	HENRY & HYNAS
Company Address	L5, 79 VICTORIA AVE, CHATSWOOD, 2067, NSW
Phone No.	(02) 9417 8400
Designer's name	DANA KANAN
Qualifications / accreditations	B.E.

Drawings

Drawing & Rev. No.	11 015-NR-S1.00 (REV. 3); 11 015-NR-S3.00 (REV.3) 11 015-NR-S2.00 (REV.3) 11 015-NR-S2.01 (REV.1)
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Design Statement

I confirm that the drawings specified above have been designed in accordance with the relevant clauses of the Building Code of Australia, the relevant Australian Standards and any other relevant requirements of the Development Consent or Alternative Solution including those listed below.

Signature		Date	18.10.2011
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STRUCTURAL DESIGN

Australian Standard & Building Code Of Australia Clause

No.	Date	Title	BCA 2011 Clause
AS/NZS 1170.0	2002	Structural design actions – General principles	B1.2
AS/NZS 1170.1	2002	Structural design actions - Permanent, imposed and other actions	B1.2
AS/NZS 1170.2	2002	Structural design actions – Wind actions	B1.2
AS 1170.4	2007	Structural design actions – Earthquake actions in Australia	B1.2
AS 1288	2006	Glass in buildings – Selection and Installation	B1.4
AS 1562.1	1992	Design and installation of sheet roof and wall cladding - Metal	B1.4
AS/NZS 1664.1	1997	Aluminium structures – Limit state design	B1.4
AS/NZS 1664.2	1997	Aluminium structures – Allowable stress design	B1.4
AS 2047	1999	Windows in buildings – Selection and installation	B1.4
AS 2327.1	2003	Composite structures – Simply supported beams	B1.4
AS 3600	2001	Concrete structures	B1.4
AS 3660.1	2000	Termite management – New building work	B1.4
AS 3700	2001	Masonry structures	B1.4
AS 4100	1998	Steel structures	B1.4
AS/NZS 4600	2005	Cold-formed steel structures	B1.4

21 November 2011

Our Ref: S11139-DS-01

Nordon Jago Architects
103C Parramatta Road
Annandale
NSW 2038

Attention: Andy Twine

Dear Andy,

Project: Narrabeen High School
Subject: Building Services Statement

Medland Metropolis states that the Mechanical Services, Electrical Services, Fire and Hydraulic Services for the above mentioned project will be specified to be designed to meet the relevant Australian Standards and the relevant sections of the Building Code of Australia 2011 as follows:

MECHANICAL SERVICES				
Australian Standard	Part	Year	Title	BCA 2011 clause
-	-	2011	BCA: Ventilation of Rooms	F4.5, F4.6
-	-	2011	BCA: Air-Conditioning and Ventilation Systems	Section J5

ELECTRICAL SERVICES				
Australian Standard	Part	Year	Title	BCA 2011 clause
AS/NZS 3000		2009	Electrical Installations	-
AS 2293	1	2005	Emergency Evacuation Lighting In Buildings-System Design Installation And Operation	E4.2, E4.3, E4.4, E4.5, E4.6, E4.8 and NSW E4.6
AS 1680	0	1998	Interior Lighting	F4.4
-	-	2011	BCA: Lighting and Power Control Devices	Section J.6
-	-	2011	BCA: Electrical Supply Systems	Section C2.13

FIRE SERVICES				
Australian Standard	Part	Year	Title	BCA 2011 clause
AS 2444	-	2001	Portable Fire Extinguishers	E1.6

Level 3
47 Murray Street
Pyrmont
NSW 2009

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F 02 9552 2044

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ABN: 81 010 761 378
www.medland.com.au

HYDRAULIC SERVICES				
<i>Australian Standard</i>	<i>Part</i>	<i>Year</i>	<i>Title</i>	<i>BCA 2011 clause</i>
AS 3500	1	2003	National Plumbing & Drainage - Water Services	-
AS 3500	2	2003	National Plumbing & Drainage - Sanitary Plumbing & Drainage	-
AS 3500	3	2003	Plumbing & Drainage - Stormwater	
AS 3500	4	2003	National Plumbing & Drainage - Heated Water Services	-
AS 2419	1	2005	Fire Hydrants Installations - System Design, Installations and Commissioning	E1.3
AS 2441	-	2005	Installation of Hose Reels	E1.4
-	-	2011	BCA: Hot Water Supply	Section J.7
-	-	2006	NSW Code of Practice (Plumbing & Drainage) Edition NO-2	-
AS 5601	-	2004	Gas Installations	

Yours faithfully
MEDLAND METROPOLIS PTY LTD



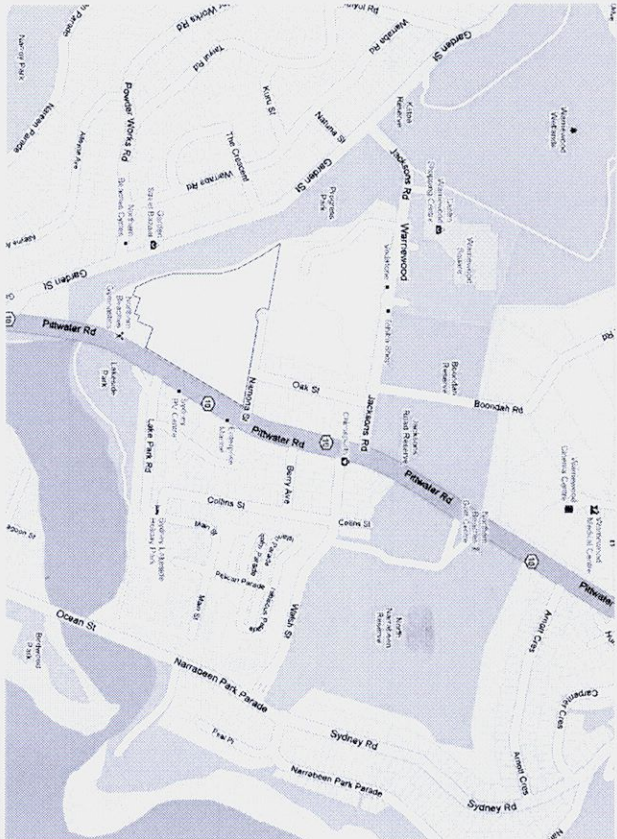
Jeremy Montgomery
Project Engineer

Level 3
47 Murray Street
Pyrmont
NSW 2009

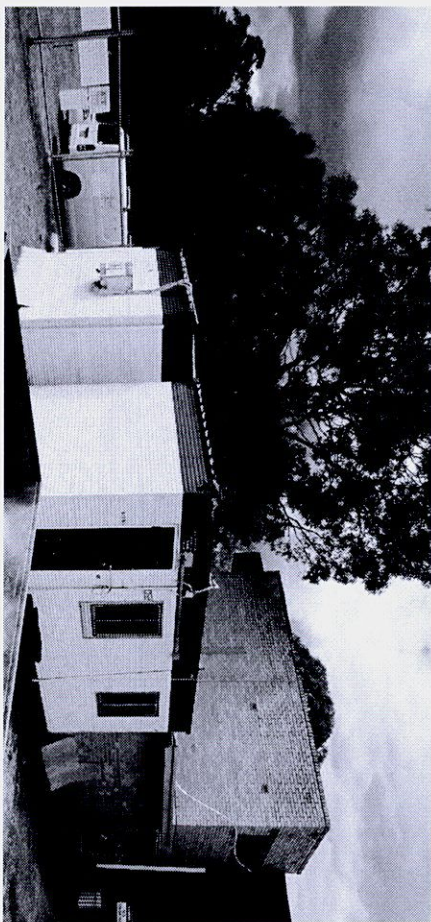
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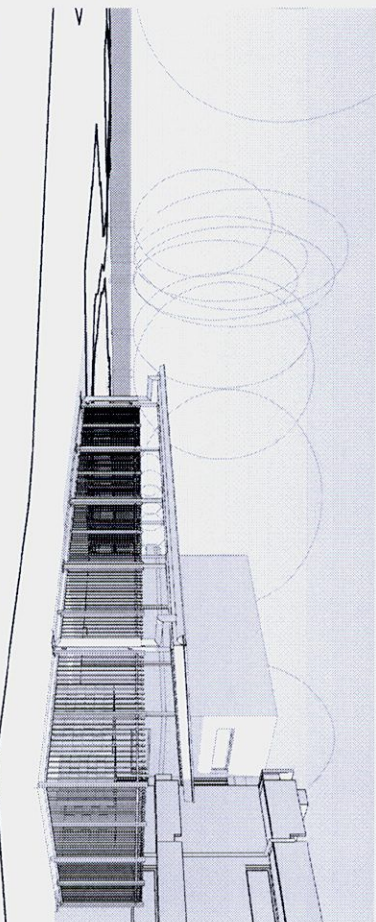
Proposed Construction Trade Training Centre
Narabeen Sports High School



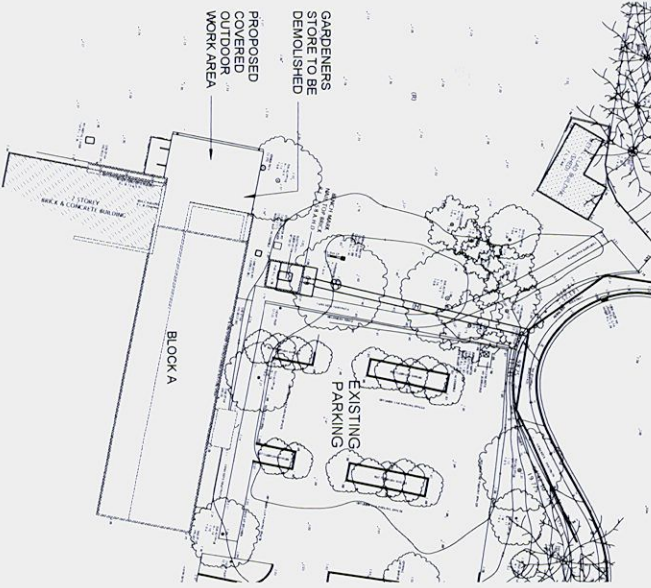
1 Location Plan
1 : 750



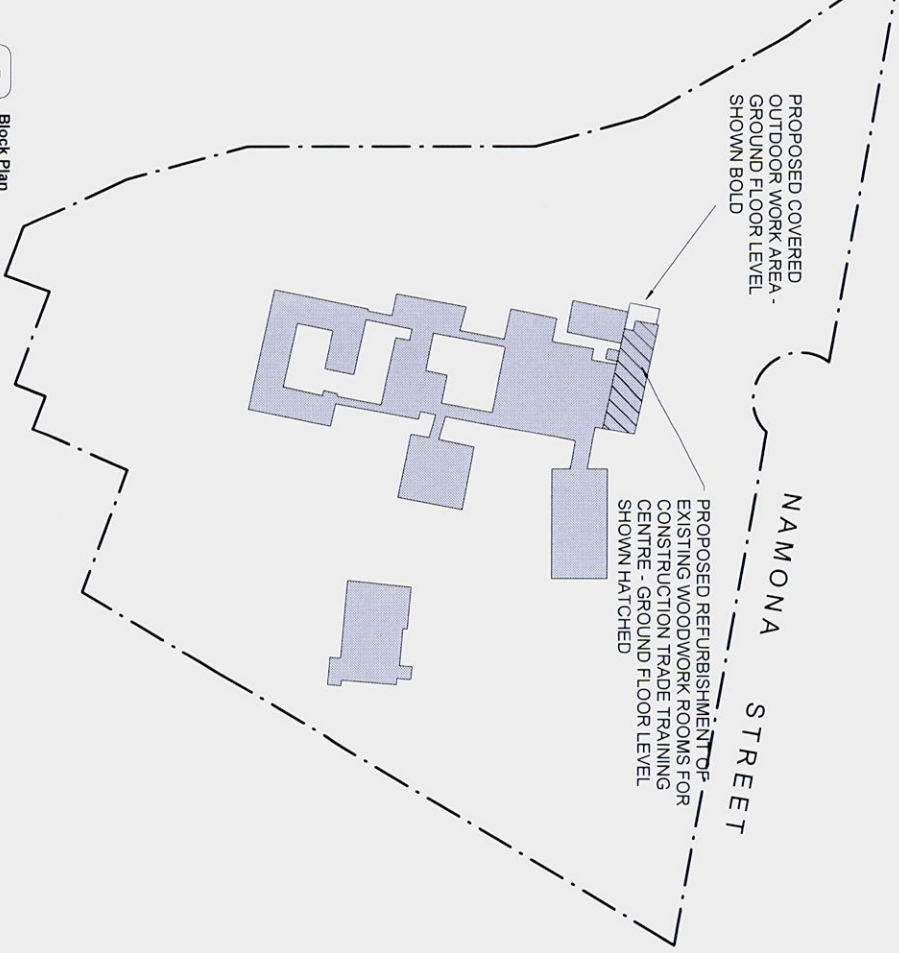
2 Existing Building
1 : 500



3 Proposed Covered Outdoor Work Area
1 : 500



4 Site Plan
1 : 500



5 Block Plan
1 : 500

Drawing List		
Sheet Number	Sheet Name	Current Revision
WD000	Cover Page - Site Plan	E
WD010	Existing and Proposed Plans	E
WD011	Proposed Equipment Layout	E
WD012	Internal Wall Elevations	C
WD013	External Wall Elevations	E
WD014	Sections & Elevation	E
WD015	Roof Plan	B
WD016	Door Schedule	A
WD017	Details - Staircase Frame Details	B
WD018	Detail - Staircase Frame Details	C
WD019	Detail - Staircase Frame Details	C
WD020	Finishes Schedule	A
WD021	Material Board	A

Compling Development Certificate
Approved documentation
METRO BUILDING CONSULTANCY
Accredited Certifier Sean Moore - BPE Accreditation No: 0764
Signature: *Sean Moore* Certificate No: 11190 cdd02 Date: 10/2/12
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009
Telephone: (02) 9692 8477 Fax: (02) 8209 4955

General Notes
Architectural Drawings To Be Read In Conjunction With All Other Consultants Detailed Drawings And Specifications.
Do Not Scale From Drawings. All Dimensions To Be Verified On Site (VOS) Prior To Construction / Manufacture. Contractor To Verify all Levels and Conditions on Site.
Refer All Discrepancies To Nordon Jago Architects Pty. Ltd.
All Levels Indicated Taken To Australian Height Datum (AHD)
All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Schools Facilities Standards
Builder To Obtain Relevant Consent From Public Utility Providers Prior To Construction.
Contractor To Ensure Compliance with Requirements of Complying Development Certificate.
Generally All Masonry Construction To Comply T.A.S 3700
Flashings & DPMs Installation To Comply To AS 2904
Wall Tie Installation To Comply With BCA AS 2899.1
Sarking Installation To Comply To AS 4200.2
Waterproofing To Wet Areas To Comply With BCA and AS 3740
Glazing To Comply With BCA and AS1288
Contractor To Ensure Compliance with Relevant SAA Codes
Nordon Jago Architects Pty Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.
This drawing shall not be used for construction unless endorsed 'For Construction' and authorised for issue.
Supply & Install
2x Class F9 Wet Chemical & 2x CO2 Fire Extinguishers
All to BCA standards

NOT FOR CONSTRUCTION

Signed By: *[Signature]* Date: 14.10.2010
1. I/We, Public Works, a Division of the Department of Services, Technology and Innovation, hereby certify that the information contained in this drawing is true and correct to the best of our knowledge and belief.
2. The information contained in this drawing is for the use of the client only and is not to be used for any other purpose without the written consent of the Department of Services, Technology and Innovation.
3. The Department of Services, Technology and Innovation is not responsible for the use of this drawing for any other purpose without the written consent of the Department of Services, Technology and Innovation.
4. The Department of Services, Technology and Innovation is not responsible for the use of this drawing for any other purpose without the written consent of the Department of Services, Technology and Innovation.

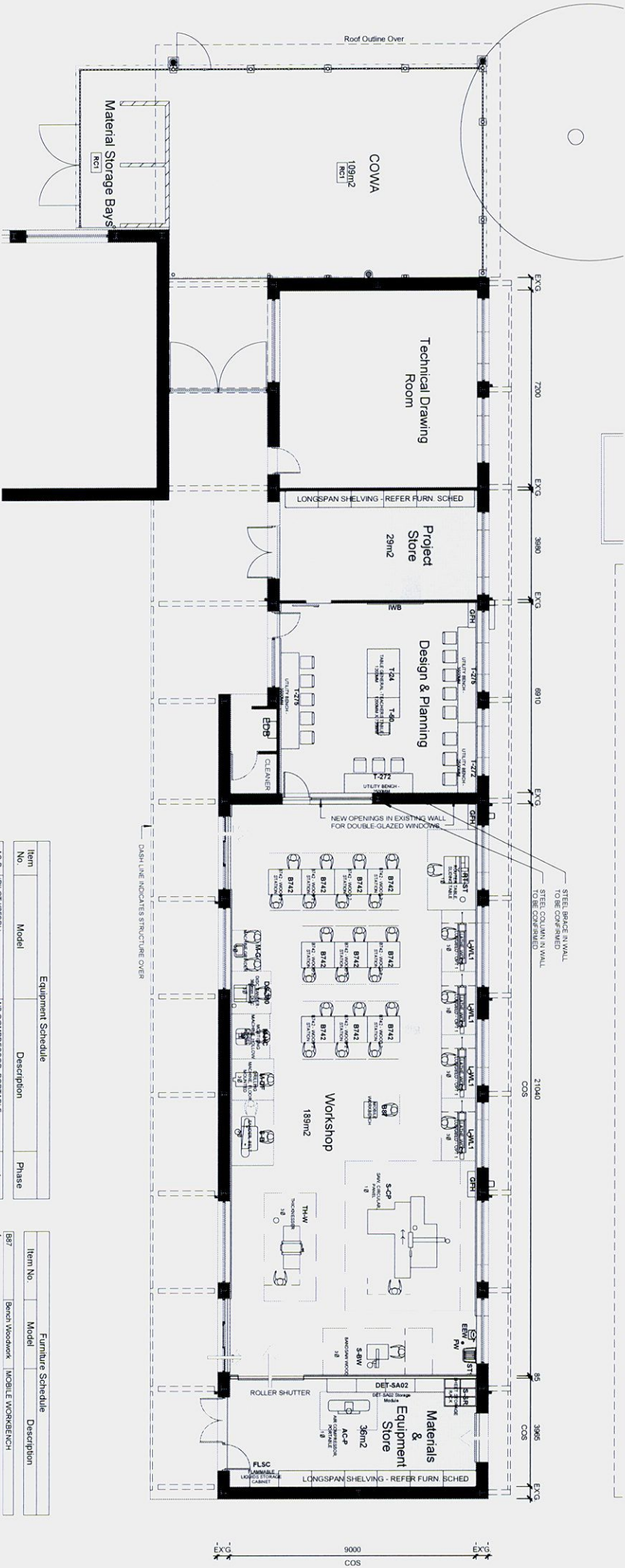
NSW Registration No. 4628

Rev	Description	Date	STRUCTURAL & CIVIL	ARCHITECTURAL
A	50% Issue for Approval	12.08.11	12.08.11 HAH Consulting Engineers	Nordon Jago Architects Tel: 02 9517 2822
B	General Revisions - COMA Revisions - Issue For	15.09.11	15.09.11 HAH Consulting Engineers	PROJECT MANAGEMENT NSW Public Works
C	Information Revisions - Storage Bay, Furniture, Headers	23.08.11	23.08.11 HAH Consulting Engineers	
D	Revisions - Issue For Coordination	30.09.11	30.09.11 HAH Consulting Engineers	
E	Issue For Tender	14.10.11	14.10.11 HAH Consulting Engineers	

NORDON · JAGO ARCHITECTS
PUBLIC WORKS
Project Management
Sydney region
100 Years of Public Works
A Division of the Department of Services, Technology & Innovation
Sydney NSW 2000
Phone: (02) 9517 2822 Fax: (02) 9517 2833
STEPHEN J. NORDON REGISTRATION NO. NSW 4628

Cover Page - Site Plan
Project: Narabeen Sports High School
Construction Trade Training Centre
Narabeen Street North Narabeen 2101

DATE OF LOCATION: 14.10.2011
DATE OF REVISION: 14.10.2011
SCALE: 1:500
SHEET NO: WD000
REVISION: E
CHECKED: [Signature]
DATE: June 2011



1 Proposed Equipment Plan


Equipment Schedule		
Item No	Model	Description
1	AC-P (PLOT X2500)	AIR COMPRESSOR PORTABLE
2	DS-300 (IMWE-05380)	DISC SANDER - 300mm DISC
3	LV-M1 (IMOCOFAST M910)	LYTHE WOOD - LONG BED
4	M-QP (IMWE-8719)	DEILING MACHINE FLOOR MOUNTED
5	M-G (GH-BQWACO SHINE GR83X)	MACHINE GRINDER
6	M-HC (IMWE-CM19)	MORTISING MACHINE - HOLLOW CHISEL
7	RT-ST (IMACO RT-100)	ROUTER TABLE - SLIDING TABLE
8	S-B (IMWE-ES989)	SANDER BELT
9	S-BW (IMAFICO BP-480)	BANDSAW WOOD
10	S-C-P (IMWE-SS1900E)	SAW CIRCULAR PANEL
11	TH-W (IMWE-CT308)	THICKNESSER

Furniture Schedule		
Item No	Model	Description
1	BW7	Bench Woodwork
2	BW2	Bench Woodwork
3	DE-S402	BAC Systems
4	FLSC	FLAMMABLE LIQUIDS STORAGE
5	CSM-10-013	CSM Office Furniture Solutions Bay
6	CSM-10-014	CSM Office Furniture Solutions Bay
7	CSM-10-018	CSM Long Span Shelving 300W Extension Bay
8	S13	TEACHERS CHAIR SWIVEL WITH ARMS
9	S15	PLASTIC CHAIR
10	S-SR	Shed Storage Rack
11	T-24	TABLE - GENERAL PURPOSE
12	T-50	TEACHERS TABLE
13	T-275	UTILITY WALL MOUNTED BENCH

Compiling Development Certificate
Approved documentation

METRO BUILDING CONSULTANCY

Accredited Certifier: Sean Moore - BPS Accreditation No: 0764

Signature:  Certificate No: 11190cd002 Date: 16/2/12

Studio 1.05, 56 Bowman St, Pyrmont NSW 2009
Telephone: (02) 9592 8477 Fax: (02) 8209 4955

General Notes

Architectural Drawings To Be Read in Conjunction With All Other Consultants Detailed Drawings And Specifications.

Do Not Scale From Drawings. ALL Dimensions To Be Verified On Site (VOS) Prior To Construction / Manufacture. Contractor To Verify all Levels and Conditions on Site.

Refer All Discrepancies To Nordon Jago Architects Pty Ltd.

All Levels Indicated Taken To Australian Height Datum (AHD)

All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Serious Facilities Standards.

Builder To Obtain Relevant Consent From Public Utility Providers Prior To Construction.

Contractor To Ensure Compliance with Requirements of Compiling Development Certificate.

Generally All Masonry Construction To Comply To AS 3700

Flashings & DPM's Installation To Comply To AS 2904

Wall Fire Installation To Comply With BCA AS 2899.1

Waterproofing To Comply With BCA AS 2899.1

Waterproofing To WAF Areas To Comply with BCA and AS 3740

Glazing To Comply with BCA and AS1288

Contractor To Ensure Compliance with Relevant SAA Codes

Nordon Jago Architects Pty Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.

This drawing shall not be used for construction unless endorsed For Construction and authorised for issue.

Supply & Install
2x Class F9 Wet Chemical & 2x CO₂ Fire Extinguishers
All to BCA standards

NOT FOR CONSTRUCTION

Rev	Description	Date	STRUCTURAL & CIVIL	ARCHITECTURAL
A	Issue for Approval	12.08.11	1841 Consulting Engineers	Nordon Jago Architects
B	General Revision: COVMA Received - Issue For	15.09.11	1841 Consulting Engineers	PROJECT MANAGEMENT
C	Information	23.09.11	ELECTRICAL	PROJECT MANAGEMENT
D	Revised - Issue For Coordination	30.09.11	MECHANICAL	PROJECT MANAGEMENT
E	Issue For Tender	14.10.11	MECHANICAL	PROJECT MANAGEMENT

**NORDON-JAGO**
ARCHITECTS

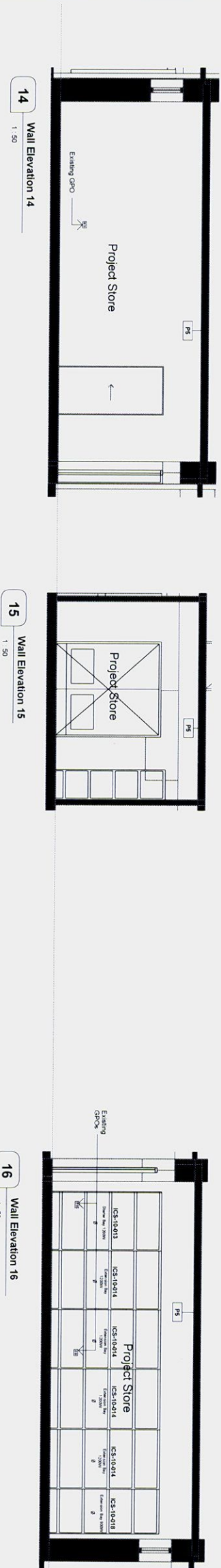
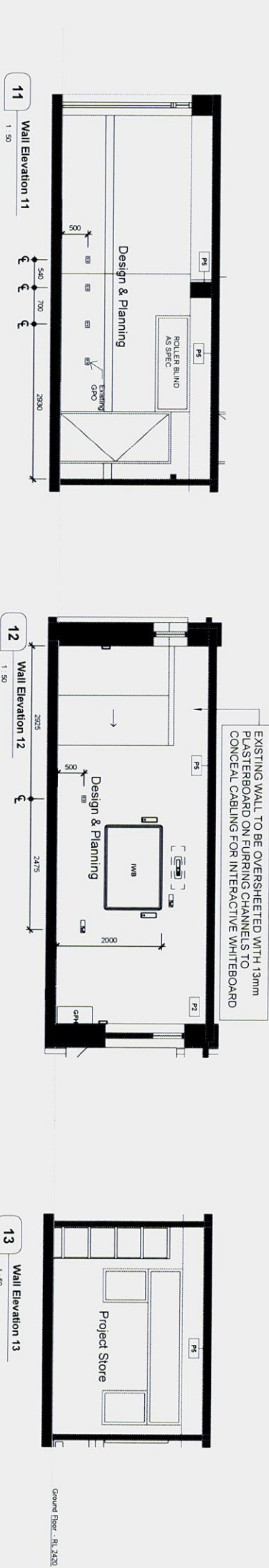
**NSW**
Public Works
Project Management
Sydney region

CHIEF ARCHITECT
STEPHEN J. NORDON
REGISTRATION NO. NSW-4704

CHIEF ARCHITECT
GRAHAM P. JAGO
REGISTRATION NO. NSW-4826

PROJECT INFORMATION		CONTACT DETAILS	
Proposed Equipment Layout		PWE00111 B	
Narabeen Sports High School Construction Trade Training Centre Narabeen Street North Narabeen 2101		WD110	
Author		E	
Date		June 2011	

Keynote Legend	
Abbreviation	Description
GPH	Gas Fluid Heater - Refer Hydraulic Engineer's Details
IMB	NSW Department of Education and Training Interactive White Board
P2	Internal Walls - Dulux Wash and Wear Advanced 101 Semi Gloss Acrylic Paint Finish, Dulux Colour Code PCWP9 'Lemon'
P3	Internal Ceilings - Dulux Wash and Wear Advanced 101 Low Sheen Acrylic Paint, Dulux Colour Code TR188 'White'



Compiling Development Certificate
Approved documentation

Accredited Certifier Sean Moore – BPB Accreditation No. 0764

Signature: *Sean Moore*

Certificate No: *1190cd102*

Date: *10/2/12*

Studio 1.05, 56 Bowman St, Pyrmont NSW 2009
Telephone: (02) 9692 8477 Fax: (02) 8209 4955

Note: Equipment not shown for clarity

General Notes:

Architectural Drawings To Be Read In Conjunction With All Other Consultants Detailed Drawings And Specifications.

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Refer All Discrepancies To Nordon Jago Architects Pty. Ltd.

All Levels Indicated Taken To Australian Height Datum (AHD)

All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Schools Facilities Standards

Builder To Obtain Relevant Consent From Public Utility Providers Prior to Construction.

Contractor To Ensure Compliance with Requirements of Compiling Development Certificate.

Generally All Masonry Construction To Comply To AS 3700

Fastenings & DPM's Installation To Comply To AS 2994

Wall Tie Installation To Comply With BCA AS 2699.1

Slabking Installation To Comply To AS 4200.2

Marking outing To Wet Areas To Comply with BCA and AS 3740

Cladding To Comply with BCA and AS1289

Contractor To Ensure Compliance with Relevant SAA Codes

Nordon Jago Architects Pty Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.

This drawing shall not be used for construction unless endorsed 'For Construction' and authorised for issue

Supply & Install
2x Fire Blankets
2x Fire Blankets
All to BCA standards

1. NSW Public Works, a Division of the Department of Services, Technology and Innovation, is the client for this project. It is the responsibility of the client to ensure that the design and construction of the building is in accordance with the relevant standards and codes of practice.

2. The client is responsible for ensuring the accuracy and reliability of the information provided to the architect.

3. The architect is responsible for ensuring the accuracy and reliability of the information provided to the client.

Signed by: *[Signature]*
Date: 14.10.2010

NSW Registration No. 4826

Rev	Description	Date	STRUTURAL & CIVIL	ARCHITECTURAL
A	50% Issue for Approval	12.08.11	H&H Consulting Engineers	Nordon Jago Architects
B	95% Issue for Approval	30.09.11	H&H Consulting Engineers	PROJECT MANAGEMENT
C	Issue For Tender	14.10.11	H&H Consulting Engineers	NSW Public Works

NORDON · JAGO
ARCHITECTS

NSW
Public Works
Project Management
Sydney region

Public Works
Project Management
Sydney region

PROJECT: Narrabeen Sports High School Construction Trade Training Centre
Narrabeen Street North Narrabeen 2101

SCALE: As indicated

DESIGN: As indicated

CHECKED: As indicated

CHECKER: As indicated

DATE: June 2011

REVISION: C

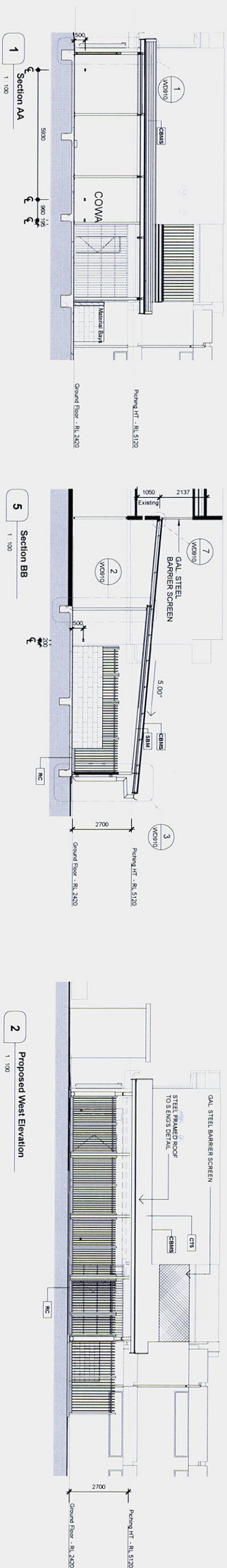
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
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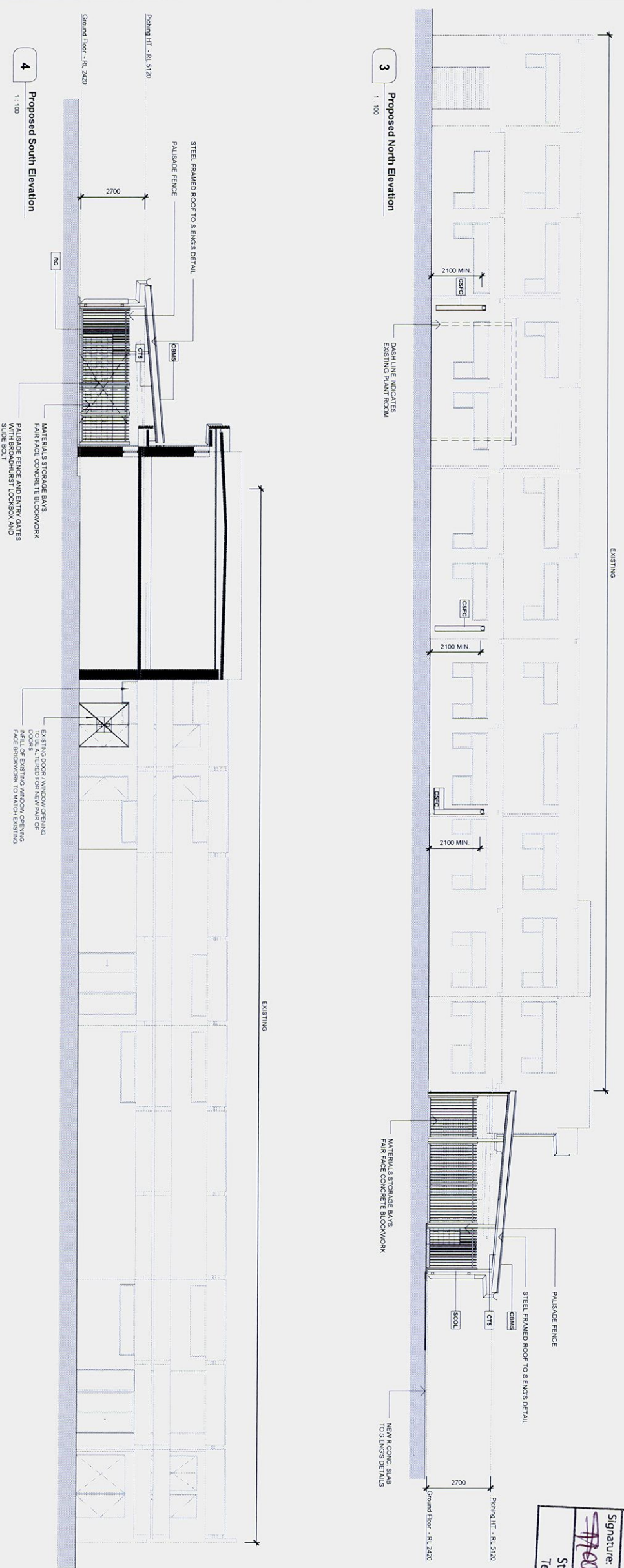
1:50

A1

Abbreviation	Keynote Legend	Description
GBMS	Color	Coatboard Finish Metal Roof Steel - Custom CHC Profile -
GCFC	Material	1/4" Molded GFRP / 1/8" GFRP Pre-Formed Steel Flare cover to comply with DLE Standards with Composite Folded Flange Bolted to WMA to provide cover to flange up to 2" from steel structure attached metal
C15	Material	1/4" Molded GFRP / 1/8" GFRP Pre-Formed Steel Pneumatic and Coated Finish on Bolted Ceiling Framing Top Hats and Primary Channel Fixed Off Roof Panels
RC	Detail	Supports attached on Channel to Structure Equipment Detail: Support on Channel to Structure Equipment
RADP	Material	1/4" Molded GFRP / 1/8" GFRP Pre-Formed Steel Isolated and Channel Steel Pipe Bolted 2" in below Ground Refer to Hydraulic Equipment documentation
SCL	Material	1/4" Molded GFRP / 1/8" GFRP Pre-Formed Steel Steel Isolated to S. Eng's Details, including Coated Finish
SCM	Material	1/4" Molded GFRP / 1/8" GFRP Pre-Formed Steel Steel Columns to S. Eng's Details, including Coated Finish

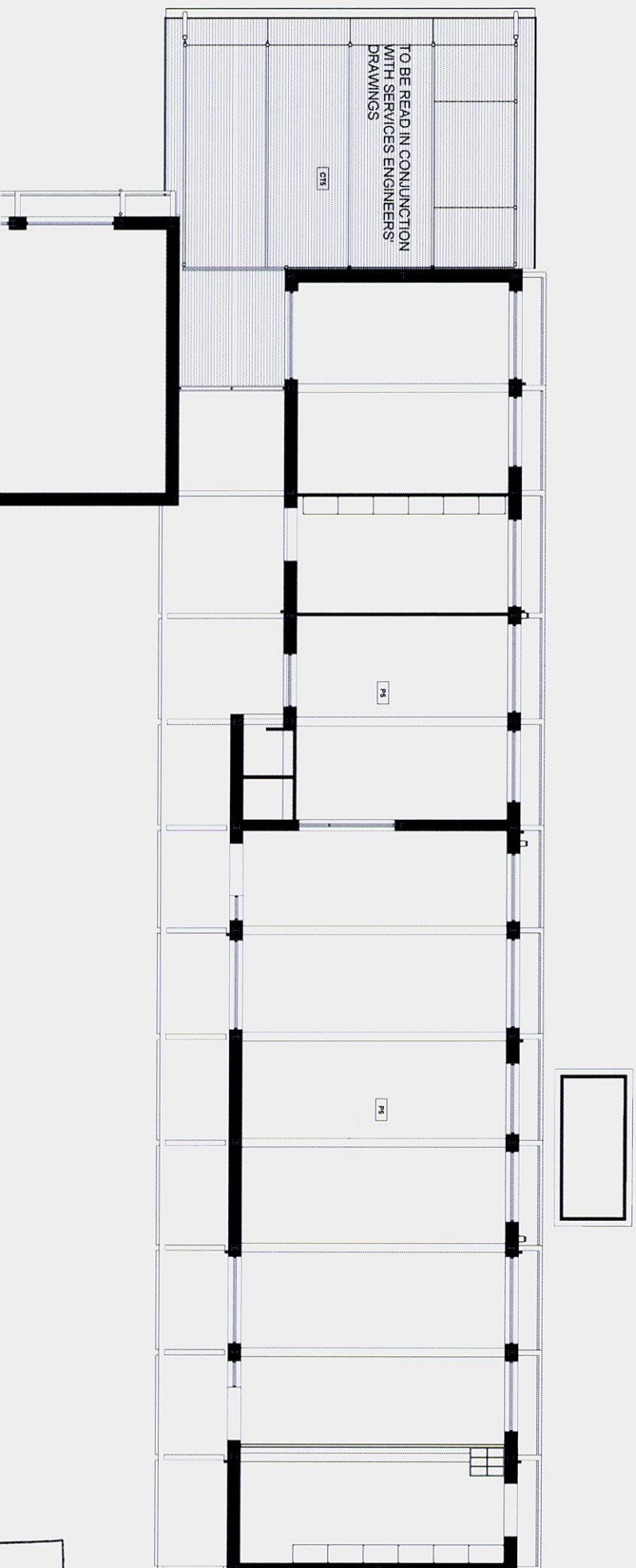


Compiling Development Certificate Approved documentation	
METRO BUILDING CONSULTANCY	
Accredited Certifier: Sean Moore - P88 Accreditation No.: 0764	
Signature: 	Certificate No: 11190cdco2
Date: 10/2/12	
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009 Telephone: (02) 9692 8477 Fax: (02) 8209 4955	



NOT FOR CONSTRUCTION


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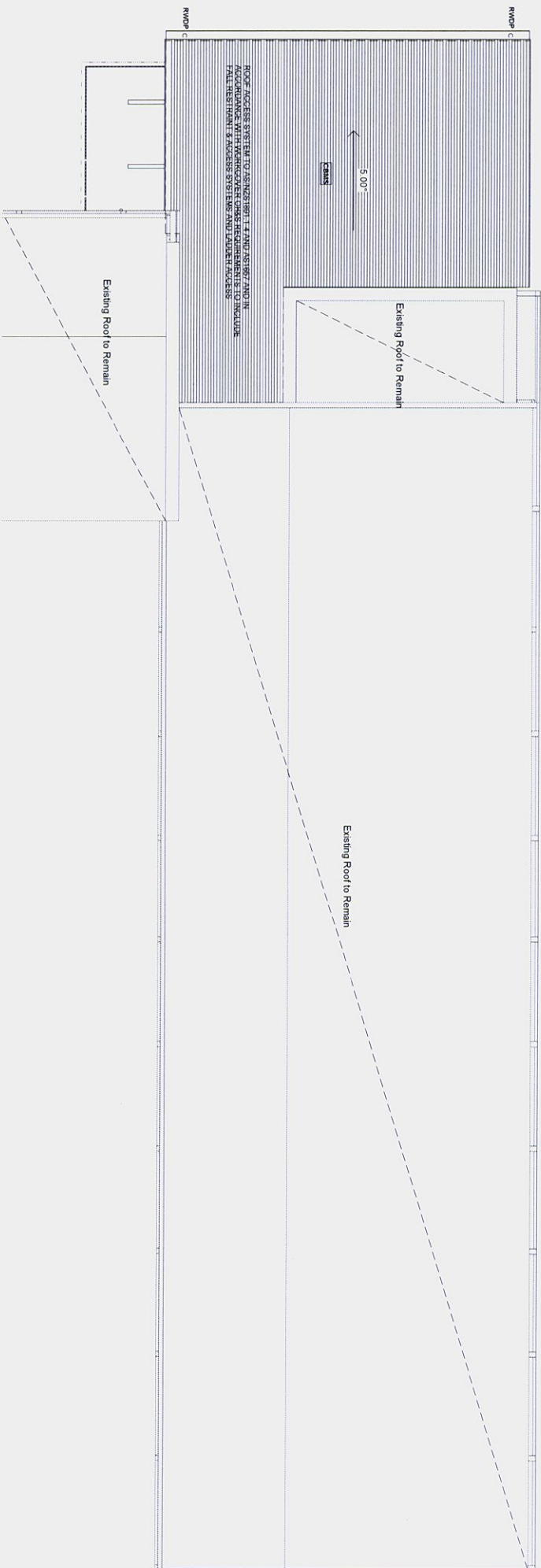


1
1 : 100
Reflected Ceiling Plan

1 : 100



Compiling Development Certificate Approved documentation		
METRO BUILDING CONSULTANCY		
Accredited Certifier Sean Moore - BPB Accreditation No.: 0764		
Signature: 	Certificate No: 11196dc602	Date: 10/02/12
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009 Telephone: (02) 9692 9477 Fax: (02) 8209 4955		



2 Roof Plan

1 : 100

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3. The Department does not use scanning software to prevent file and system viruses attacks but gives no warranty. The recipient or user is solely responsible for their own virus protection.

Graham P Jago
NSW Registrar

USE FIGURED DIMENSIONS IN PREFERENCE TO SCALING
CHECK ALL DIMENSIONS ON SITE

200 MW

300MM ON ORIGINAL

Rev	Issue	Description	Date
1	Issue for Approval		15.09.11
2	General Remarks: CDWA Recorded - Issue For	STRUCTURAL & CIVIL	15.09.11
3	Information Issues: Storage Bay Furniture, Means	MECHANICAL	15.09.11
4	Recorded - Issue For Construction	MECHANICAL	15.09.11
5	Issue for Approval		15.09.11
6	Issue for Approval		15.09.11
7	Issue for Approval		15.09.11
8	Issue for Approval		15.09.11
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91	Issue for Approval		15.09.11
92	Issue for Approval		15.09.11
93	Issue for Approval		15.09.11
94	Issue for Approval		

NORDON-JAGO
ARCHITECTS

CUR PARRAMATTA RD & JOHNSTON ST., PO BOX 254 • ANNANDALL, NSW 2038 • T 02 9617 2822 F 02 9617 2833
TERREHILL P. NORDON REGISTRATION NO. NS15-4704
GOSHAM P. JAGO REGISTRATION NO. NS15-4828



NSW
GOVERNMENT

Public Works
Project Management
Sydney region

2000

A Division of the Department of Services, Technology & Administration
Director General

<p>PROJECT NO. WD400</p>		<p>DATE OF THE QUOTE 11/05/2011</p>	
<p>PROJECT NAME Nordesteen Sports High School</p>		<p>CLIENT NAME C. J. and M. W. Nordesteen, LLC</p>	
<p>PROJECT ADDRESS 1100 Nordesteen Blvd</p>		<p>CLIENT ADDRESS 1100 Nordesteen Blvd</p>	
<p>PROJECT CITY St. Louis, MO</p>		<p>CLIENT CITY St. Louis, MO</p>	
<p>PROJECT STATE MO</p>		<p>CLIENT STATE MO</p>	
<p>PROJECT ZIP 63114</p>		<p>CLIENT ZIP 63114</p>	
<p>PROJECT PHONE 314-221-1100</p>		<p>CLIENT PHONE 314-221-1100</p>	
<p>PROJECT FAX 314-221-1100</p>		<p>CLIENT FAX 314-221-1100</p>	
<p>PROJECT EMAIL info@nordesteen.com</p>		<p>CLIENT EMAIL info@nordesteen.com</p>	
<p>PROJECT WEBSITE www.nordesteen.com</p>		<p>CLIENT WEBSITE www.nordesteen.com</p>	
<p>PROJECT DESCRIPTION Construction of a new 1100 sq ft building for the Nordesteen Sports High School</p>		<p>CLIENT DESCRIPTION Construction of a new 1100 sq ft building for the Nordesteen Sports High School</p>	
<p>PROJECT STATUS Completed</p>		<p>CLIENT STATUS Completed</p>	
<p>PROJECT COMMENTS See attached drawings and specifications for details.</p>		<p>CLIENT COMMENTS See attached drawings and specifications for details.</p>	

General Notes	Architectural Drawings To Be Read In Conjunction With All Other Consultants Detailed Drawings And Specifications.
Do Not Scale From Drawings. All Dimensions To Be Verified On Site (VOS) Prior to Construction. Manufacturer, Contractor To Verify all Sizes and Conditions on Site.	
Refer All Discrepancies To Nordon Jago Architects Pty. Ltd	
All Levels Indicated Taken To Australian Height Datum (AHD)	
All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Strata Facilities Statute	
Builder To Obtain Relevant Consent From Public Utility Providers Prior to Construction.	
Contractor To Ensure Compliance with Requirements of Compiling Development Certificate.	
Generally All Masonry Construction To Comply To AS 3700	
Finishing & DPM's Installation To Comply To AS 2804	
Wall Tie Installation To Comply With BCA AS 2699.1	
Waterproofing To Meet Areas To Comply with BCA and AS 3740	
Gazing To Comply with BCA and AS1288	
Contractor To Ensure Compliance with Relevant SAA Codes	
Nordon Jago Architects Pty. Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.	
This drawing shall not be used for construction unless endorsed For Construction and authorized for issue.	
Supply & Install	
2x Class F9 Wm Chemical & 2x CO Fire Extinguishers	
2x Fire Brackets	
All To BCA standards	

[illegible]

Windows & Doors Legend

Window & Door Notes

[illegible]

Signage Notes

<p>Storage requires</p> <p>Safety Signs</p> <p>2. THE PROTECTION REQUIRED (plus symbol)</p> <p>2. GUARDS MUST BE IN PLACE BEFORE SWITCHING ON</p> <p>2. EMERGENCY STOP</p>	<p>Travelling Door Insects 3. Extended Aluminium Insect Barrier Exits 3. Doors</p> <p>1. TTC CONSTRUCTION WORKSHOP</p> <p>1. DESIGN AND PLANNING</p> <p>1. PROJECT STAGING</p> <p>1. MATERIALS EQUIPMENT TOGET</p>
<p>Exterior Construction</p> <p>1. MATERIALS EQUIPMENT TOGET</p> <p>1. CONSTRUCTION FACILITY</p> <p>1. Storage</p> <p>Storage 13 Stainless steel plate</p> <p>Storage 13 Stainless steel plate</p> <p>Fixed Mounted with stainless steel stand-offs</p> <p>Leaving last tapered blade, 4mm high</p> <p>TRADE TRAINING CENTRE 4mm high</p> <p>CONSTRUCTION FACILITY</p>	<p>1. MATERIALS EQUIPMENT TOGET</p> <p>1. CONSTRUCTION FACILITY</p> <p>1. Storage</p> <p>Storage 13 Stainless steel plate</p> <p>Storage 13 Stainless steel plate</p> <p>Fixed Mounted with stainless steel stand-offs</p> <p>Leaving last tapered blade, 4mm high</p> <p>TRADE TRAINING CENTRE 4mm high</p> <p>CONSTRUCTION FACILITY</p>

General Notes

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Refer All Discrepancies to Nelson Jago Architects Pty. Ltd.

All Levels indicated Taken to Australian Height Datum (AHD)

All Proposed Works to Comply With Requirements Of The Building Code Of Australia (BCA) and Current Schools Facilities Standards

Builder to Obtain Relevant Consent From Public Utility Providers Prior to Construction.

Contractor to Ensure Compliance with Requirements of Compiling Development Certificate.

Generally All Masonry Construction To Comply To AS 3700

Flashings & DPM's Installation To Comply To AS 2904

Walls The Installation to Comply With BCA AS 2699.1

Slabbing Installation to Comply To AS 2026.2

Windows and Doors to Comply With BCA and AS 3740

Glazing to Comply with BCA and AS 1288

Contractor to Ensure Compliance with Relevant SAA Codes

Vendor Jago Architects Pty. Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.

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Supply & Install

2x Class F9 Wm Chemical & 2x CO2 Fire Extinguishers

2x Fire Blankets

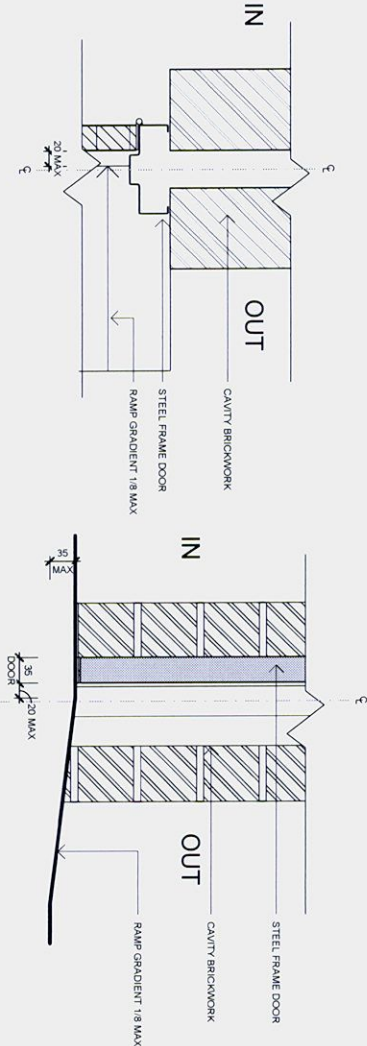
2x To BCA standards

[illegible]

Pair of Steel Framed Flush Face Solid Core with Vision Panel and Kick Panel Each Side, Rebatbed Meeting Stiles - RHS Leaf Active

Steel Framed Flush Face Solid Core with Vision Panel and Kick Panel Each Side

**Roller Shutter
Austral Monsoon H13 Galvanised Steel
Roller Shutter Manually Operated.**



DOOR THRESHOLD RAMP PLAN

NOTE: THRESHOLDS TO ROLLER SHUTTER DOORS SIMILAR

DOOR THRESHOLD RAMP SECTION

Door Schedule						
Mark	Room Name	Type Comments	Frame Type	Height	Width	Finish
01	Project Store	2x600 Leaf	Steel Frame	2100	920	Paint
02	Workshop	920 Leaf	Steel Frame	2100	920	Paint
03	Materials & Equipment Store	Roller Shutter Austral	Steel Frame	2100	2400	Garnished
		McAlister H13				Manually Operated

<p>Compiling Development Certificate</p> <p>Approved documentation</p>			
<p>METRO BUILDING CONSULTANCY</p>			
<p>Accredited Certifier: Sean Moore – BPB Accreditation No: 0764</p>			
Signature:		Certificate No:	Date:
<i>SEAN MOORE</i>		119400002	10/2/12
<p>Studio 1.05, 56 Bowman St, Pyrmont NSW 2009</p> <p>Telephone: (02) 9692 8477 Fax: (02) 8209 4955</p>			

NORDON-JAGO
ARCHITECTS

CNR PARADIMATTA RD & JOHNSTON ST. • PO BOX 254 • ANNANDALE, NSW 2038 • T 02 9617 2822 F 02 9617 2833
STEPHEN J NORDON REGISTRATION NO NSW-4704 GRAHAM P JAGO REGISTRATION NO NSW-4926



NSW
GOVERNMENT

Level 5
324 St James street Sydney NSW

Public Works
Project Management
Sydney region

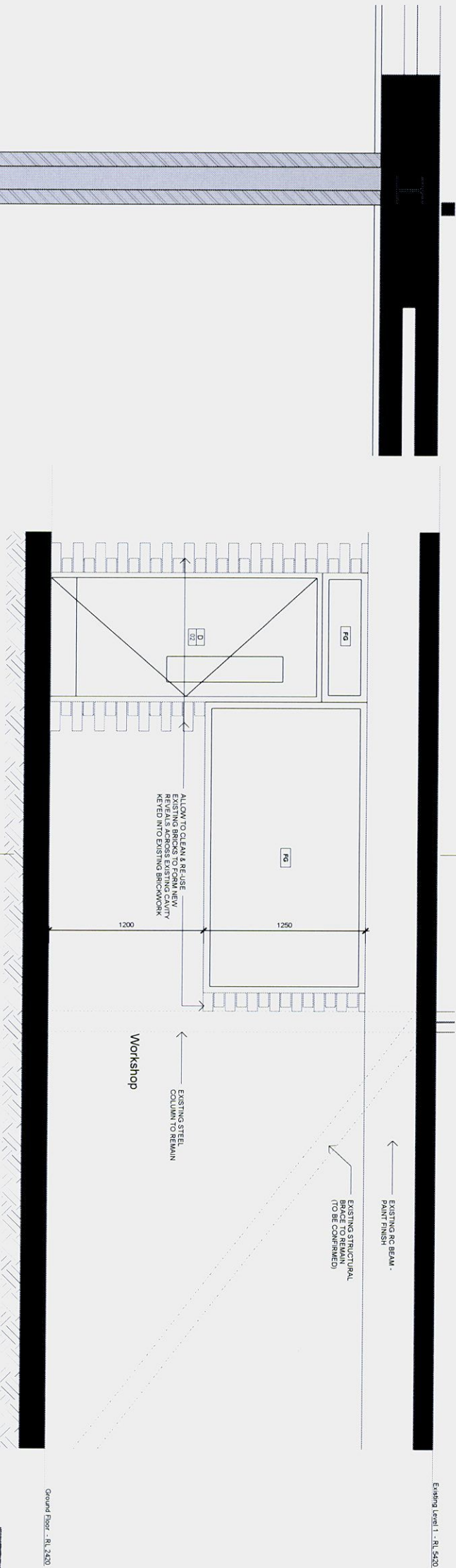
A Division of the Department of Services, Technology & Administration
GRANT/14/010
Directly Employed

© Crown in right of New South Wales, the Department of Public Works, 1/24/2014 11:09 AM

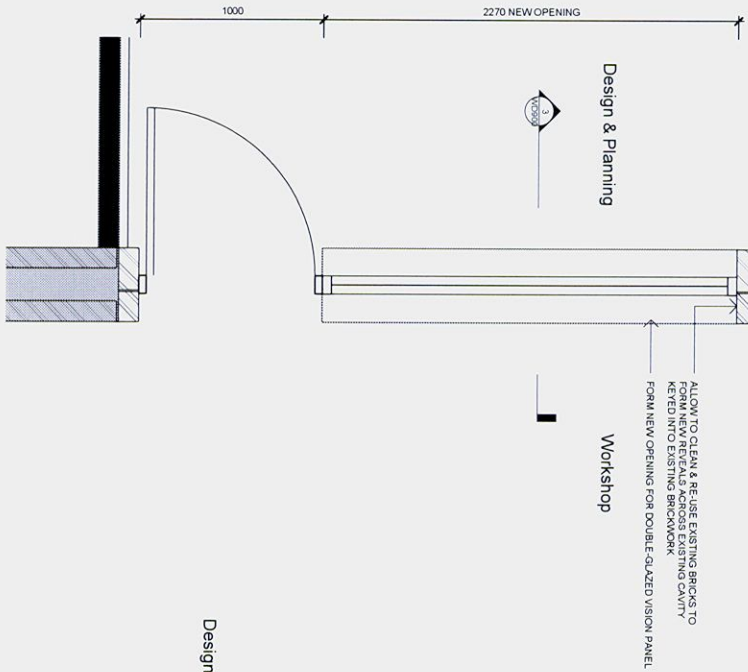
PROJECT
Narrabeen Sports High School
Construction Trade Training Centre
Narrabeen Street North Narrabeen 2101

C:\Data Files\LOCATION C:\Local Files\PWE00111 B Nanyang LW Local file		CONFIDENTIAL NUMBER PWE00111
SCALES As indicated		SHEET No WD80
DRAWN Author	NUMBER IN SET of	REVISION B
VERIFIED Checker	DATE June 2011	

Keynote Legend	
Abbreviation	Description
Rg	Fixed Glass Panel



2 900 SP Detail Wall Elevation
1:20



1 900 SP Wall Detail
1:20

4 900 Double glazing detail
1:5

3 900 SP Wall Section1
1:20

General Notes:

Architectural Drawings To Be Read In Conjunction With All Other Consultants Detailed Drawings And Specifications.

Do Not Scale From Drawings. ALL Dimensions To Be Verified On Site (NOS) Prior To Construction / Manufacture. Contractor To Verify All Levels and Conditions on Site.

Refer All Discrepancies To Nordon Jago Architects Pty Ltd.

All Levels Indicated Taken To Australian Height Datum (AHD)

All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Schools Facilities Standards

Builder To Obtain Relevant Consent From Public Utility Providers Prior to Construction.

Contractor To Ensure Compliance with Requirements of Compiling Development Certificate.

Generally All Masonry Construction To Comply To AS 3700

Waterproofing To Comply To AS 4200.2

Waterproofing To Wet Areas To Comply With BCA and AS 3740

Glazing To Comply with BCA and AS1288

Contractor To Ensure Compliance with Relevant SAA Codes

Nordon Jago Architects Pty Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically.

This drawing shall not be used for construction unless endorsed For Construction and authorised for issue.

Supply & Install

2x Class F9 Wet Chemical & 2x CO₂ Fire Extinguishers

All to BCA Standards

Compling Development Certificate Approved documentation			
Accredited Certifier: Sean Moore – BPS Accreditation No: 0764			
Signature:	Certificate No:	Date:	
	11990cd102	10/12/12	
Studio 1.05, 56 Bowman St, Pymont NSW 2009			
Telephone: (02) 9692 8477 Fax: (02) 8209 4955			

NOT FOR CONSTRUCTION

1. NSW Public Works is a division of the Department of Services, Technology and Innovation. It is responsible for the design, construction and management of public infrastructure projects. It is not responsible for the design, construction and management of private infrastructure projects.

2. The design of any public infrastructure project is the responsibility of the project manager. The project manager is responsible for ensuring that the project is designed, constructed and managed in accordance with the relevant standards and specifications.

3. The design of any private infrastructure project is the responsibility of the project manager. The project manager is responsible for ensuring that the project is designed, constructed and managed in accordance with the relevant standards and specifications.

Signed by:
Date: 14.10.2010
NSW Registration No. 4629

Rev	Description	Date
A	Issue For Tender	14.10.11
B	Issue For Tender	14.10.11
C	Issue For Tender	14.10.11
D	Issue For Tender	14.10.11
E	Issue For Tender	14.10.11
F	Issue For Tender	14.10.11
G	Issue For Tender	14.10.11
H	Issue For Tender	14.10.11
I	Issue For Tender	14.10.11
J	Issue For Tender	14.10.11
K	Issue For Tender	14.10.11
L	Issue For Tender	14.10.11
M	Issue For Tender	14.10.11
N	Issue For Tender	14.10.11
O	Issue For Tender	14.10.11
P	Issue For Tender	14.10.11
Q	Issue For Tender	14.10.11
R	Issue For Tender	14.10.11
S	Issue For Tender	14.10.11
T	Issue For Tender	14.10.11
U	Issue For Tender	14.10.11
V	Issue For Tender	14.10.11
W	Issue For Tender	14.10.11
X	Issue For Tender	14.10.11
Y	Issue For Tender	14.10.11
Z	Issue For Tender	14.10.11

Cnr Parramatta Rd & Johnston St - PO Box 254 - Annandale - NSW 2038 - T: 02 9617 2822 F: 02 9617 2833
STEPHEN J. NORDON REGISTRATION NO. NSW-4704 GRAHAM P. JAGO REGISTRATION NO. NSW-4629

Public Works
Project Management
Sydney region

Details		COMPILE NUMBER	
PROJECT		PME00111 B	
Narabeen Sports High School Construction Trade Training Centre		WD900	
Narabeen Street North Narabeen 2101		A	
Scales		As indicated	
Author		JAG	
Checker		JAG	
Date		June 2011	

Compiling Development Certificate Approved documentation		
Accredited Certifier: Sean Moore – BPB Accreditation No.: 0764		
Signature: <i>SEAN MOORE</i>	Certificate No: <i>11190cdk02</i>	Date: <i>10/12/12</i>
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009 Telephone: (02) 9692 8477 Fax: (02) 8209 4955		

General Notes

Architectural Drawings To Be Read In Connection With All Other Consultants Detailed Drawings And Specifications.

Do Not Scale From Drawings. All Dimensions To Be Verified On Site (VOS) Prior To Construction / Manufacture. Contractor To Verify All Levels and Conditions on Site.

Refer All Descriptions To Norton Jagg Architects Pty. Ltd

All Levels Indicated Taken To Australian Height Datum (AHD)

All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Strata Facilities Standards

Builder To Obtain Relevant Consent From Public Utility Providers Prior to Construction.

Contractor To Ensure Compliance with Requirements of Compulsory Development Certificate

Generally All Masonry Construction To Comply To AS 3700

Finishes & DPM's Installation To Comply To AS 2904

Slab Reinforcement To Comply To AS 4520

Structural Insulation To Comply To AS 4520

Waterproofing To Meet Requirements To Comply with BCA and AS 3740

Glazing To Comply with BCA and AS 288

Contractor To Ensure Compliance with Relevant SAA Codes

Norton Jagg Architects Pty. Limited cannot guarantee the accuracy of content and format for copies of drawings issued electronically

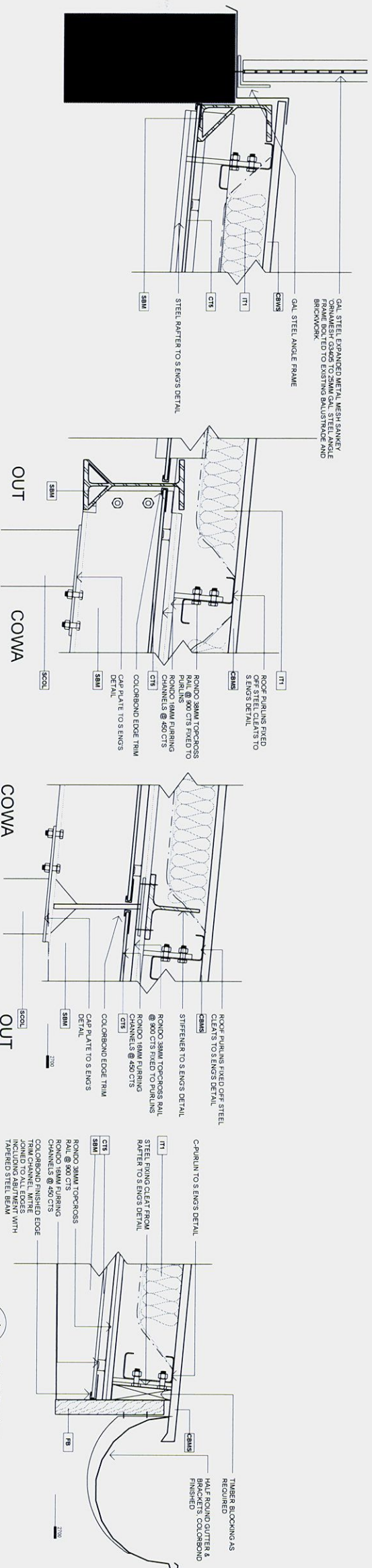
This drawing shall not be used for construction unless endorsed 'For Construction' and authorized for issue.


Supply & Install

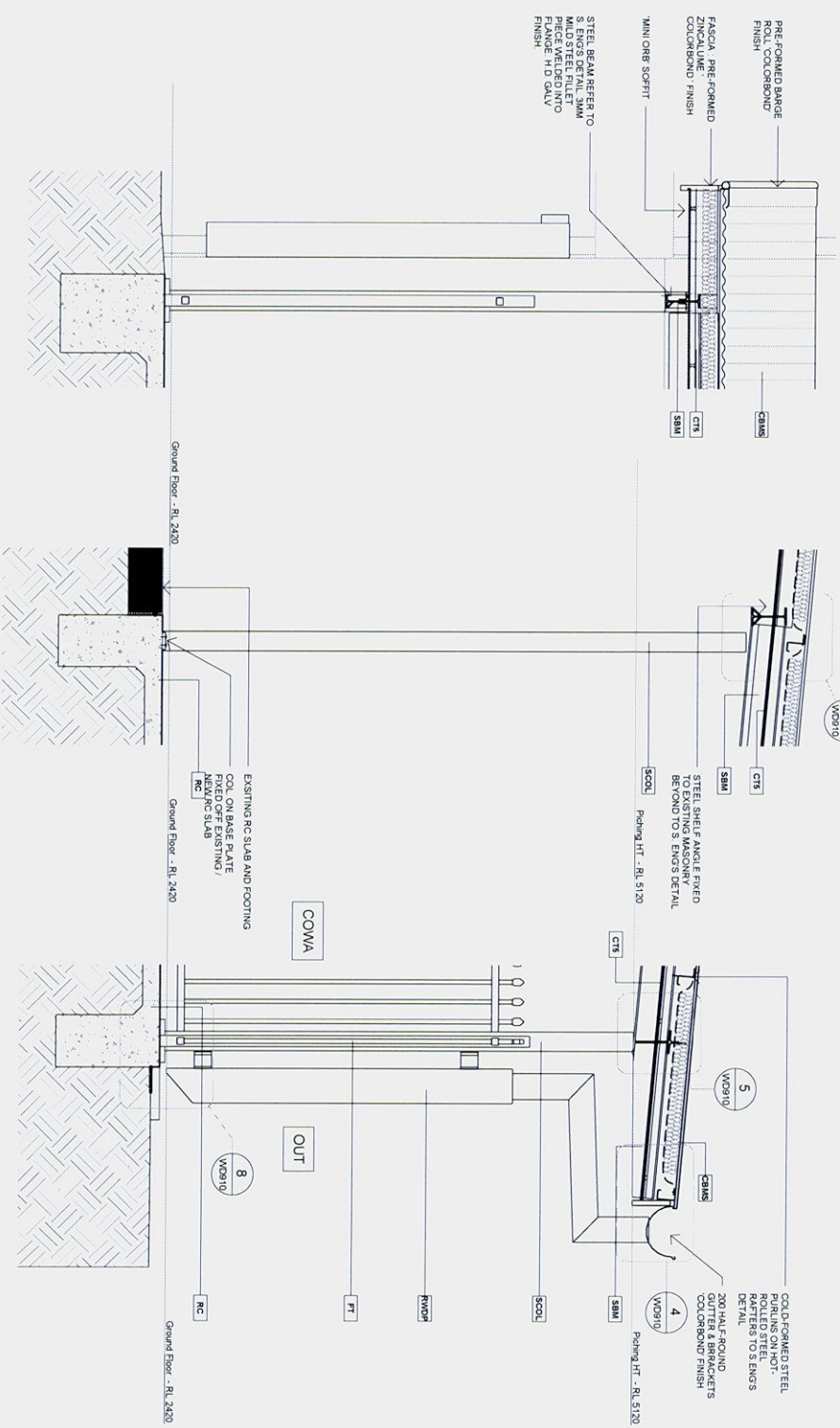
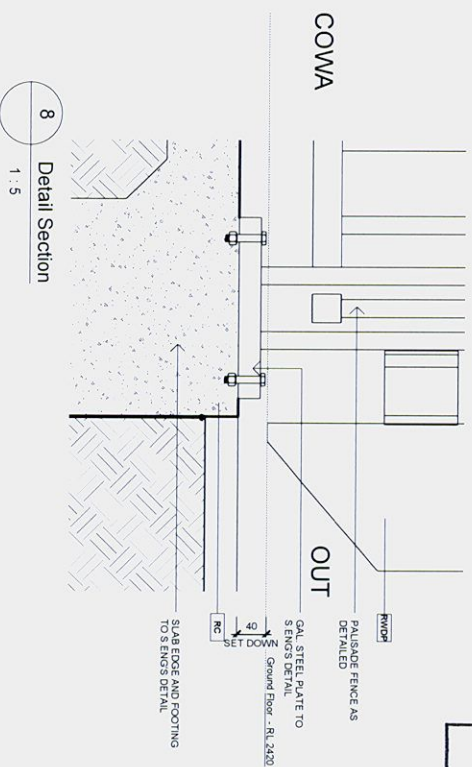
2x Class P9 Wet Chemical 8.2% CO² Fire Extinguishers

2x Fire Shavers

All To BCA standards

[illegible]

<p>Compiling Development Certificate</p> <p>Approved documentation</p> <p>METRO BUILDING CONSULTANCY</p> <p>Accredited Certifier Sean Moore - BPA Accreditation No. 0764</p>			
Signature:		Certificate No:	111990cdcc02
		Date:	10/2/12
<p>Studio 1.05, 56 Bowman St, Pyrmont NSW 2009</p> <p>Telephone: (02) 9692 8477 Fax: (02) 8209 4955</p>			



General Notes

Architectural Drawings To Be Read In conjunction With All Other Architectural Detailed Drawings and Specifications.

Do Not Scale From Drawings. All Dimensions To Be Verified On Site (MOS) Prior To Construction/ Manufacture. Contrasted To Verify All Levels and Conditions on Site

Refer All Discrepancies To Nordon Japp Architects Pty. Ltd

All levels indicated Taken To Australian Height Datum (AHD)

All Proposed Works To Comply With Requirements Of The Building Code Of Australia (BCA) and Current Schools Facilities Standards

Builder To Obtain Relevant Consent From Public Utility Providers Prior to Construction.

Contractor To Ensure Compliance with Requirements of Compiling Development Certificate.

Generally All Masonry Construction To Comply To AS 3700

Fixings and DPM's Installation To Comply to AS 2894

Wall Installation To Comply With AS 2899.1

Wetproofing To Comply To AS 2002.2

Waterproofing To Wet Areas To Comply with BCA and AS 3740

Grazing to Comply with BCA and AS1288

Contractor To Ensure Compliance with Relevant SAA Codes

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Supply & Install

2x Class P9 Wet Chemical & 2x CO² Fire Extinguishers

2x Fire Brackets

2x All BCA standards

NOT FOR CONSTRUCTION

[illegible]

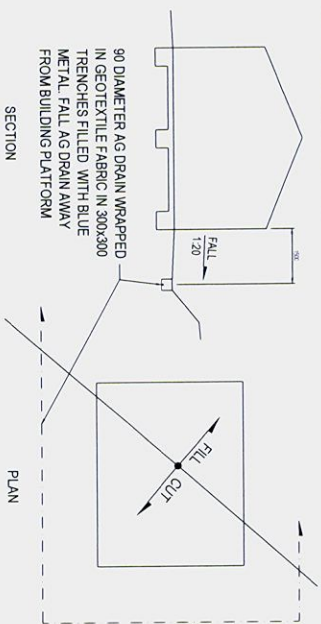
NARRABEEN SPORTS HIGH SCHOOL
NARRABEEN STEET, NORTH NARRABEEN NSW 2101

GENERAL NOTES:

- | | | |
|-----|--|--|
| G1 | THESE DRAWINGS AND NOTES SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANT'S DRAWINGS, REPORTS, SPECIFICATIONS AND ANY OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF CONSTRUCTION. ALL DISCREPANCIES SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION OR DECISION BEFORE PROCEEDING WITH THE WORK. | |
| | CONSTRUCTION FROM THESE DRAWINGS SHALL NOT COMMENCE UNTIL THEY ARE APPROVED BY THE RELEVANT AUTHORITIES. | |
| G2 | DIMENSIONS SHALL NOT BE OBTAINED FROM THE STRUCTURAL DRAWINGS BY WAY OF SCALING (OR DETERMINING UNDIMENSIONED MEASUREMENTS FROM THE ELECTRONIC DRAWING). WALL, PIER AND COLUMN THICKNESS, AND STRUCTURAL MEMBER SIZES SHOWN ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER THOSE SHOWN ON THE ARCHITECT'S DRAWINGS. THE BUILDER SHALL VERIFY ALL DIMENSIONS ON SITE AND BE RESPONSIBLE FOR THE SETTING OUT OF THE BUILDING. | |
| | ELEMENTS INDICATED ON THESE DRAWINGS ARE SHOWN IN THEIR INTENDED COMPLETE STATE. THE BUILDER SHALL PROVIDE ANY TEMPORARY WORKS INCLUDING PROPPING, BRACING, SHORING AND ANY OTHER REQUIREMENTS NECESSARY TO MAINTAIN THE STRUCTURE, OR ANY PART OF IT, IN A STABLE CONDITION DURING CONSTRUCTION. IF THE BUILDER IS IN ANY DOUBT AS TO HOW TO ACHIEVE THIS HE SHALL OBTAIN ADVICE FROM APPROPRIATELY QUALIFIED AND EXPERIENCED PERSONNEL. UNLESS STATED OTHERWISE TEMPORARY WORKS SHALL BE THE BUILDER'S RESPONSIBILITY. | |
| G3 | THE BUILDING SHALL NOT BE REJECTED ON OR ADJACENT TO ANY OF THE FOLLOWING HAZARDS UNLESS THE HAZARD IS INDICATED ON THE STRUCTURAL DRAWING:- EMBANKMENTS, BATTERS, WATER RETAINING STRUCTURES, RETAINING WALLS, PITS, SEWERS, SERVICE TRENCHES, DRAINAGE CHANNELS, STREAMS OR ANY POTENTIAL SOURCE OF DAMAGE TO THE STRUCTURE. IF ANY SUCH HAZARDS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED AND HIS APPROVAL OBTAINED BEFORE PROCEEDING. | |
| | THE BUILDER SHALL LOCATE ALL EXISTING AND PROPOSED SERVICES AND EASEMENTS, ON AND ADJACENT TO THE SITE. THE APPROVAL OF THE RELEVANT STATUTORY AUTHORITY AND THE ENGINEER SHALL BE OBTAINED BEFORE BUILDING ON OR OVER ANY SERVICES OR EASEMENTS. | |
| G4 | THE BUILDER SHALL NOT EXCAVATE BELOW THE LEVEL OF THE FOOTINGS TO ANY EXISTING BUILDINGS WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. THE WRITTEN CONSENT OF ADJOINING PROPERTY OWNERS SHALL BE OBTAINED BEFORE ANY OTHER WORK BEYOND THE PROPERTY BOUNDARY OR ANY OTHER WORK BEYOND THE PROPERTY BOUNDARY. | |
| | NO HOLES OR CHASES SHALL BE MADE IN ANY STRUCTURAL ELEMENT, UNLESS SHOWN ON THESE DRAWINGS OR WRITTEN APPROVAL OF THE ENGINEER. | |
| G5 | A FULL DEPTH V JOINT SHALL BE STRUCK IN RENDER WHERE TWO DIFFERING STRUCTURAL MATERIALS MEET, i.e. AT THE JUNCTION OF MASONRY WITH CONCRETE. | |
| | G11 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS. THE BUILDING CODE OF AUSTRALIA, AND THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES. | |
| G6 | ALL WORKMANSHIP SHALL BE CONSISTENT WITH GOOD TRADE PRACTICE. WATERPROOFING REQUIREMENTS SHALL BE SPECIFIED BY THE ARCHITECT AND ARE NOT NECESSARILY INDICATED ON THESE DRAWINGS. | |
| | G13 AUSTRALIAN STANDARDS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST REVISIONS OF THE NOMINATED STANDARD. | |
| G7 | G14 APPROVAL OF A SUBSTITUTION OR ALTERNATIVE FROM THE ENGINEER IS NOT, IN ITSELF, AUTHORISATION FOR A VARIATION. | |
| | G15 THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE FOR INSPECTIONS. | |
| G8 | G16 THE WORD ENGINEER AS USED IN THESE NOTES REFERS TO AN EMPLOYEE OR NOMINATED REPRESENTATIVE OF H & H CONSULTING ENGINEERS PTY (TRADING AS HENRY & HYAMS) | |
| | G17 REGIONAL WIND LOADS IN ACCORDANCE WITH AS 1170.2. REGIONAL WIND PRESSURE: V1000 = 46 m/s | |
| G9 | G18 DESIGN CATEGORY: A | |
| | TOPOGRAPHIC FACTOR: 2.5 | |
| G10 | SHIELDING FACTOR: 1.0 | |
| | G18 DESIGN LIVE LOADS IN ACCORDANCE WITH AS 1170 | |
| G11 | ELEMENT DESIGN LIVE LOAD | |
| | ROOF 0.25 kPa (NON-TRAFFICABLE) | |
| G12 | GROUND FLOOR 3.0 kPa | |
| | FLOOR STORAGE 4.0 kPa | |
| G13 | G19 DESIGN LIVE LOADS AS SHOWN ON THE ARCHITECTURAL DRAWINGS CURRENT AT THE TIME OF DESIGN. | |
| | DRAWING LIST: | |
| G14 | 11015-NR-S1-00 CONSTRUCTION NOTES AND DRAWING LIST | |
| | 11015-NR-S2-00 GROUND FLOOR SLAB PLAN AND DETAILS | |
| G15 | 11015-NR-S3-01 GROUND FLOOR SLAB DETAILS | |
| | 11015-NR-S3-02 ROOF FRAMING PLAN AND DETAILS | |
| G16 | 11015-NR-S3-03 | |
| | 11015-NR-S3-04 | |

FOOTINGS:

- F1 FOOTINGS HAVE BEEN DESIGNED FOR 150 PA BEARING PRESSURE CLASS 'M' SITE IN ACCORDANCE WITH AS 2870. THIS SITE CLASSIFICATION SHALL BE VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO WORKS PROCEEDING. WHERE THE SITE CLASSIFICATION IS MORE REACTIVE THAN CLASS 'M' OR CLASS 'P' A REDISIGN OF THE FOOTINGS WILL BE REQUIRED.
- F2 ALL LOOSE MATERIAL ON OR MADE TO BE THOROUGHLY REMOVED FROM TRENCHES AND REINFORCEMENT. DO NOT POUR TO FOOTINGS WALLS/ST GROUND IS IN SATURATED STATE.
- F3 BUILDER TO STEP FOOTINGS AS NECESSARY TO SUIT GROUND PROFILE AND ARCHITECTURAL REQUIREMENTS.
- F4 SLOPE SITE EARTHWORKS AWAY FROM THE BUILDING AND GENERALLY ENSURE GOOD SITE DRAINAGE. IN PARTICULAR THE GROUND OR ANY PAVING etc SHALL BE SLOPED AT LEAST 30mm AWAY FOR THE FIRST METER SURROUNDING THE HOUSE. TO AVOID ANY PONDING OF WATER.
- F5 TEMPORARY SITE DRAINAGE



- F6 WHERE POSSIBLE PROVIDE FLEXIBLE COUPLINGS IN UNDERGROUND SERVICES SUCH AS DRAINAGE. ALL DRAINAGE WORK SHALL BE IN ACCORDANCE WITH A5270 REQUIREMENTS.
- F7 PROVIDE CONCRETE CATCH BASINS TO EXTERNAL TAPS AND CONNECT INTO THE DRAINAGE SYSTEM. ROOFWATER FROM DOWNPIPE TO BE DISCHARGED AWAY FROM THE BUILDING AREA.
- F8 GENERAL CONSTRUCTION REQUIREMENTS SHALL BE IN ACCORDANCE WITH A5270 LATEST EDITION. PART 1 RESIDENTIAL SLABS AND FOOTINGS - THE FOOTINGS HAVE BEEN DESIGNED FOR THE PERFORMANCE LEVELS INDICATED IN A5270 LATEST EDITION.
- F9 EXCAVATION SHALL NOT EXTEND BELOW A LEVEL DIPPING AT 45° AND AWAY FROM THE NEAREST UNDERDRAIN CORNER OF ANY EXISTING OR PROPOSED FOOTINGS EXCAVATING IN CLAY, AND 30° IN SAND OR A 1V : 2H SLOPE.



- F-10 THE BUILDING OWNER IS RESPONSIBLE FOR THE BUILDING AND SITE MAINTENANCE AS DETAILED IN THE CSIRO PAMPHLET 10-19 GUIDE TO HOME OWNERS ON FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE. THE BUILDER SHALL GIVE THE OWNER A COPY OF THIS DOCUMENT.

STRUCTURAL STEEL:

- S1 TWO COPIES OF SHOP DETAIL DRAWINGS SHALL BE SUBMITTED TO ENGINEERS AND APPROVAL OF SAME OBTAINED BEFORE COMMENCING FABRICATION.
- S2 APPROVAL WILL NOT COVER DIMENSIONS OF LAYOUT.
- S3 STEEL SHALL BE GRADE 350 FOR HOLLOW SECTIONS AND GRADE 300 FOR ALL ROLLED SECTIONS U.N.O.
- S4 BOLTS ARE DESIGNATED ON THE DRAWINGS BY THE NUMBER, DIAMETER, GRADE AND TIGHTENING PROCEDURE IN ACCORDANCE WITH A.S.C. BOLTING PROCEDURES (STANDARDISED STRUCTURAL CONNECTIONS) AND A.S.1100.
- S5 UNLESS OTHERWISE NOTED, WELDS SHALL BE 6mm CATEGORY 'C' CONTINUOUS FILLET LAID DOWN WITH APPROVED COVERED ELECTRODE. BOLTS SHALL BE M20 8.8S, min. 2 BOLTS PER CONNECTION. CLEATS AND GUSSETS SHALL BE 10mm THICK.
- S6 ALL CLEATS AND DRILLINGS FOR FIXING OF TIMBER MEMBERS etc. SHALL BE PROVIDED BY FABRICATOR.
- S7 CAMBER TO STRUCTURAL STEEL, ROOF BEAMS, TRUSSES, PORTALS etc. SHALL BE 5mm FOR EVERY 2000 OF SPAN UNLESS OTHERWISE NOTED.
- S8 ALL STRUCTURAL STEELWORK BELOW GROUND SHALL BE ENCASED IN CONCRETE MINIMUM 75mm ALL AROUND.
- S9 ALL STRUCTURAL STEEL MEMBERS SPECIFIED ON THE DRAWINGS OR OTHER RELATED CONTRACTS AS BEING GALVANISED SHALL CONFORM TO THE REQUIREMENTS OF A.S.4689 THE MINIMUM APPLICATION RATE FOR GALVANISING SHALL BE 550g/sq.m.
- S10 ALL STRUCTURAL STEELWORK, MATERIALS, FABRICATION AND ERECTION SHALL COMPLY WITH A.S. 1100.
- S11 ALL WELDING PROCEDURES AND TESTING SHALL COMPLY WITH A.S. 1554.1
- S12 'STRUCTURAL STEEL WELDING - WELDING OF STEEL STRUCTURES' THE EXTENT OF ALL NON DESTRUCTIVE TESTS SHALL COMPLY WITH APPENDIX C OF A.S. 1554.1
- S13 FLASH WELDING AND TESTING OF ALL STUDS SHALL COMPLY WITH A.S. 1554.2
- S14 ALL STEELWORK TO BE IN HDG. GALV.

CONCRETE:

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND ANY OTHER RELEVANT AUSTRALIAN STANDARDS UNLESS VARIED BY THE ENGINEER.
- C2 HOLES, PENETRATIONS, CHASES AND CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- C3 CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED WHERE VERTICAL. THE POUR SHALL BE THOROUGHLY SCABBED AND CLEANED OF ALL POORLY COMPACTED MATERIAL AND LUTANCE. THOROUGHLY SOAKED AND PAINTED WITH A 2:1 SAND AND CEMENT SLURRY IMMEDIATELY BEFORE PLACING THE SECOND POUR. THOROUGHLY COMPACT THE SECOND POUR AGAINST THE FIRST POUR.
- C4 CONDUITS, PIPES AND THE LIKE SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE SLAB DEPTH AND AT A MINIMUM SPACING OF NOT LESS THAN 3 DIAMETERS. CONDUITS AND PIPES SHALL NOT BE PLACED WITHIN THE CONCRETE COVER OUTLINED BELOW. CONDUITS AND PIPES SHALL BE ISOLATED FROM THE FOOTINGS/SLAB BY WRAPPING PIPE WITH A CELLULAR AND COMPRESSIVE MATERIAL.
- C5 THE FINISHED CONCRETE SHALL BE FINELY MECHANICALLY VIBRATED TO ACHIEVE FULL COMPACTION. COMPLETELY FILLING/COMPACTOR THOROUGHLY EXERCISING THE REINFORCEMENT AND FREE OF STONE/SOCKETS. ALL CONCRETE, INCLUDING SLABS ON GROUND AND FOOTINGS, SHALL BE FULLY VIBRATED USING A HIGH FREQUENCY MECHANICAL VIBRATOR.
- C6 ALL CONCRETE SHALL BE PROPERLY CURED. CURING SHALL COMMENCE WITHIN 2 HOURS OF POURING AND SHALL CONTINUE FOR A MINIMUM OF 7 DAYS, FOLLOWED BY A GRADUAL DRYING OUT. CURING SHALL BE BY CONTINUOUS SATURATION WITH POTABLE WATER OR BY USE OF AN APPROVED PROPRIETARY CURING COMPOUND COMPLYING WITH AS 3799. APPLIED UNIFORMLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. THE COMPATIBILITY OF CURING COMPOUNDS WITH PROPOSED APPLIED FINISHES SHALL BE VERIFIED PRIOR TO APPLICATION. FORMED SURFACES EXPOSED WITHIN 14 DAYS OF CASTING SHALL BE SPRAYED WITH AN APPROPRIATE CURING AGENT IMMEDIATELY UPON EXPOSURE.
- C7 SPECIFICATION OF CONCRETE.

Element	Slump	Max. Agg.	Cement Type	Admix.	Concrete Grade	Exposure Classn	Fire Resistance Rating	Cover U.N.O.
Foedroppers								
Reinforced	80	20	GP	NIL	25 MPa	A2	-	50
Slab on Ground	80	20	SL	NIL	25 MPa	A2	-	30

NOTE:

1. ALL CONCRETE WITH SHRINKAGE LIMITED (SL) CEMENT SHALL HAVE A MAXIMUM SHRINKAGE STRAIN OF 800 MICROS TRAINS AS DETERMINED BY TEST IN ACCORDANCE WITH AS 1012.13 AFTER 8 WEEKS OF DRYING
2. WATER/CEMENT RATIO OF CONCRETE SHALL NOT EXCEED 0.55 (EXCEPT FOR CORE FILLING GROUT IN BLOCK WALLS)

- C8 WHERE A MAJOR BARRIER IS SPECIFIED BETWEEN SLABS ON GROUND PROVIDE A 0.2mm BRANDED POLYETHYLENE MEMBRANE THOUGHOUT LAP SHEETS 300mm AND SEAL WITH A 50mm WIDE PRESSURE SENSITIVE WATERPROOF TAPE.
- C9 WHERE CONCRETE SLABS BEAR ON MASONRY, INCLUDING CORRED BRICKS, THE BEARING SURFACE OF THE MASONRY SHALL BE RENDERED WITH 1:3 CEMENT SAND MORTAR TO GIVE A LEVEL SURFACE AND A METAL SPI JOINT Laid PROTECTED BY 0.2mm POLYETHYLENE SHEET TAPED TO FORMWORK BEFORE PLACING CONCRETE. SPECIAL DETAILS SHALL APPLY FOR ROOF SLABS OR SIMILARLY EXPOSED SLABS.
- C10 NON LOBBEERING MASONRY SHALL BE SEPARATED FROM THE SOFFIT OF SLABS AND BEAMS BY 12mm CANTILE OR OTHER MEANS APPROVED BY THE ENGINEER.
- C11 CONSTRUCTION AND SUPPORT PROPPING SHALL BE ADDED, OR LEFT IN PLACE, TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADS.
- C12 NO MASONRY OR PARTITION WALLS SHALL BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL 7 DAYS AFTER PROPPING HAS BEEN REMOVED AND THE SLAB PRE-LOADED WITH THE BRICKS OR MATERIALS TO BE USED IN THE WALL.

BLOCKWORK:

- B1.4 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3700 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS
- B1.2 BLOCK COMPRESSIVE STRENGTH (FC) SHALL BE 12 MPa (min.) UNO BLOCK GRADE SHOULD BE CLEARLY INDICATED ON THE DELIVERY DOCKET.
- B1.3 MORTAR SHALL CONSIST OF 1 PART CEMENT, 1 PART LIME AND 6 PARTS SAND. MORTAR SHALL COMPLY WITH A.S. 3700.
- B1.4 REINFORCEMENT SHALL BE PLACED AND SECURELY HELD IN THE LOCATIONS INDICATED. RODS SHALL BE TIED TO STARTER BARS IN CLEANOUT BLOCKS. COVER TO VERTICAL REINFORCEMENT SHALL BE 50mm FROM THE OUTSIDE OF THE BLOCK. WHERE DRAWN ADJACENT TO BLOCK FACE.
- B1.5 MORTAR PROTRUDING INTO CORE HOLES SHALL BE REMOVED BY THE BLOCK LAYER AFTER EACH COURSE IS Laid. EVERY CORE FILLED WITH GROUT SHALL HAVE A CLEANOUT BLOCK IN THE BOTTOM COURSE.
- B1.6 CORE FILLING GROUT SHALL BE AS SET OUT IN NOTE C7.
- B1.7 PROVIDE MOVEMENT JOINTS EVERY 4m AND/OR OVER EVERY FLOOR JOINT UNO.
- B1.8 PROVIDE MOVEMENT JOINTS EVERY 4m IN PARAPET WALLS.
- B1.9 PROVIDE SMOOTH TROWELED MORTAR BED AND TWO LAYERS OF ALCOAT ON TOP OF ALL LOAD BEARING WALLS WHERE SLIP JOINTS ARE NOMINATED.

REINFORCEMENT:

- R1 REFER TO THE CONCRETE NOTES FOR THE SPECIFIED COVERS TO REINFORCEMENT. COVER MUST BE MAINTAINED AT ALL CHAMBERS, DRIP GROOVES AND REGLET'S etc. UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- R2 REINFORCEMENT IS SHOWN DIAGMATICALLY. IT IS NOT NECESSARILY SHOWN IN TRILE PROJECTION.
- R3 REINFORCEMENT SHALL NOT BE CUT OR WELDED ON SITE WITHOUT APPROVAL BY THE ENGINEER. AT SMALL HOLES LESS THAN 300mm DIAMETER, eg PLUMBING PENETRATIONS, BARS SHALL BE DISPLACED TO EITHER SIDE.
- R4 SITE BENDING OF REINFORCEMENT SHALL BE AVOIDED IF POSSIBLE. WHERE SITE BENDING IS SPECIFIED, OR UNAVOIDABLE, IT SHALL BE CARRIED OUT COLD, WITHOUT THE APPLICATION OF HEAT AND IN ACCORDANCE WITH THE PRACTICE NOTE PPM1 OF THE STEEL REINFORCEMENT INSTITUTE OF AUSTRALIA.
- R5 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES, WHERE LAP LENGTHS ARE NOT SHOWN THEY SHALL BE AS INDICATED BELOW.

BAR SIZE	MINIMUM LAP LENGTH
N10	250 (300)
N12	300 (400)
N16	400 (500)
N20	600 (750)
N24	850 (1050)
N28	1150 (1400)
N32	1400 (1750)
N36	1700 (2100)

- * LENGTHS SHOWN IN BRACKETETS APPLY TO HORIZONTAL BARS WITH MORE THAN 300mm OF CONCRETE CAST BELOW THE BAR.
THE ABOVE DEVELOPMENT LENGTHS ARE FOR MAIN REINFORCEMENT IN f_{ck} 30 MPa CONCRETE WITH 30mm CLEAR COVER FOR WALLS AND SLABS AND 30mm CLEAR COVER TO MAIN R10 TIEBARS FOR COLUMNS AND BEAMS.
REINFORCEMENT SYMBOLS:

- N - DENOTES D500M DEFORMED BAR TO AS 4671
N - DENOTES 250R HOT ROLLED PLAIN BAR TO AS 4671
S/LR - DENOTES HARD DRAMM WIRE REINFORCEMENT FABRIC TO AS 4671
W - DENOTES R500L HARD DRAMM PLAIN WIRE TO AS 4671
- R7 FABRIC REINFORCEMENT SHALL BE LAPPED TWO TRANSVERSE WIRES PLUS 50mm.
- R11
- R12
- R13 JOGGLES TO BARS SHALL COMPRISE A LENGTH OF 12 BAR DIAMETERS BETWEEN BEGINNING AND END OF AN OFFSET OF ONE BAR DIAMETER.
- R14 ALL REINFORCEMENT SHALL BE CHARGED AT MAXIMUM CENTERS AS FOLLOWS:
BARS - 800 CENTERS EACH WAY
FABRIC - 600 CENTERS EACH WAY
- R15 EXTRA CHAIRS MAY BE REQUIRED ADJACENT TO SLAB EDGES AND JOINTS TO PREVENT THE UPWARD DEFLECTION OF THE FABRIC WHEN STOOD ON.
- R16 ALL STEEL CHAIRS SHALL BE PLASTIC TIPPED. STEEL CHAIRS SHALL ONLY BE USED FOR EXPOSURE CONDITIONS M1 AND M2. FULLY PLASTIC CHAIRS ONLY SHALL BE USED ON ELEMENT FACES HAVING EXTERNAL EXPOSURE IN THE COMPLETED STRUCTURE. WHERE REINFORCEMENT IS GROUND SUPPORTED PROVIDED PLATES UNDER ALL BAR CHAIRS.
- R17 AT THE END SUPPORT OF A SLAB ON A MASONRY WALL, ALL BOTTOM REINFORCEMENT SHALL EXTEND OVER THE MASONRY WALL BY 75mm FOR N12 BARS OR 95mm FOR N16 BARS. IF COVER REQUIREMENTS PROHIBIT THIS THE BARS SHALL BE COGGED.

BRICKWORK:

- B1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3700
- B2 EXCEPT WHEN VARIED BY THE CONTRACT DOCUMENTS
- B3 BRICK COMPRESSIVE STRENGTH THE SHALL BE 20MPa mm U.N.O.
- B4 BRICK MORTAR SHALL BE : 1 : 6 PROPORTIONS BY VOLUME OF CEMENT,
LINE AND SAND
- B5 PROVIDE MOVEMENT JOINTS EVERY 6m U.N.O. AND 4.0m IN PARAPET WALLS
- B6 NO BRICKWORK WHICH IS SUPPORTED BY THE SLAB SHALL BE ERECTED
UNTIL THE FORMWORK HAS BEEN REMOVED.
- B7 PROVIDE SMOOTH TROWELED MORTAR BED AND TWO LAYERS OF ALCOAR
ON TOP OF CONCRETE
- B8 ALL LOAD BEARING WALLS WHERE SLIP JOINTS ARE
NONMATED

METRO BUILDING CONSULTANCY

Accredited Certifier: Sean Moore - BPB Accreditation No.: 0764

Signature:	Certificate No:	Date:
------------	-----------------	-------

11/9/2022	10/2/22
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ॐ नमो भगवते वासुदेवाय

Telephone: (02) 9692 8477 Fax: (02) 8209 4955

	Drawn	Designed	Date
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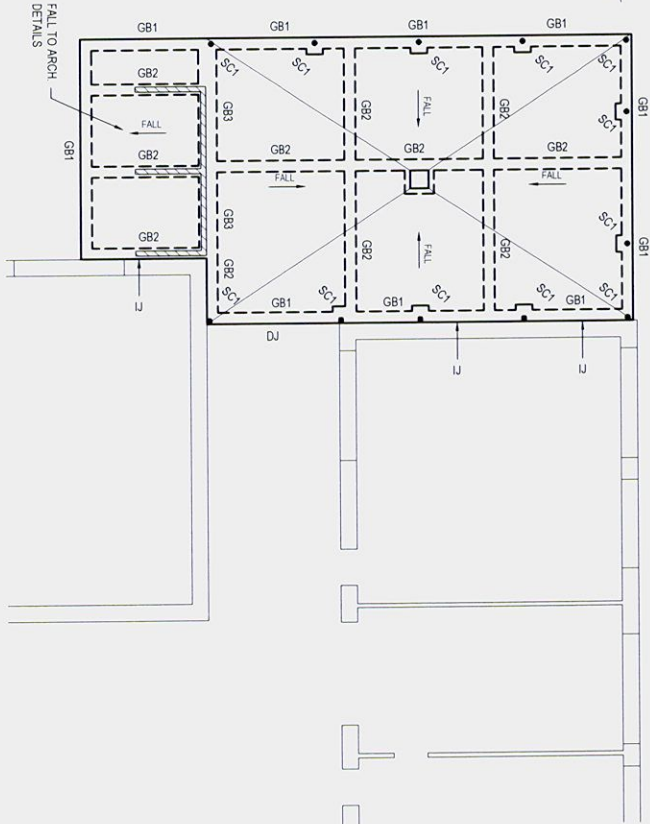
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Drawing Number	Date	
	For	By

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Keywords: social support; coping strategies; self-esteem

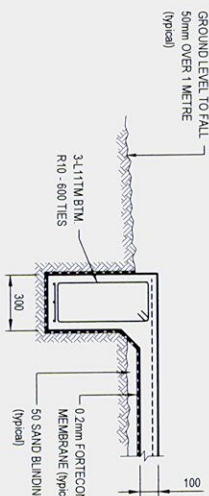
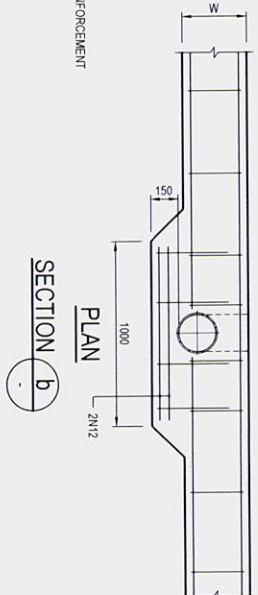
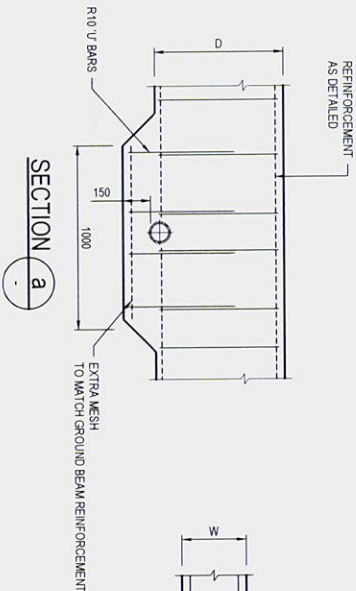
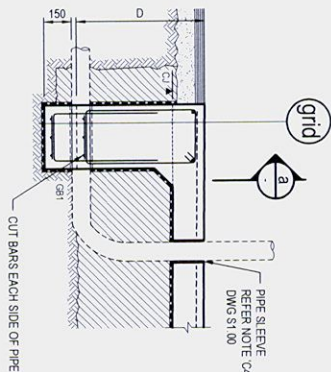
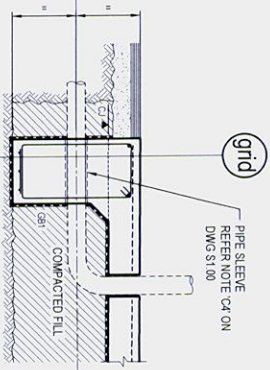


GROUND FLOOR SLAB PLAN

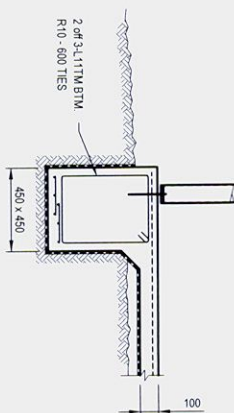
ALL SLABS SHALL BE 100 THICK PLACED ON A WATERPROOF MEMBRANE OVER A 50mm SAND BUILDING ON COMPACTED SUBGRADE UNDO.

ALL SLABS SHALL BE REINFORCED WITH SLAB FABRIC TOP WITH 30 COVER UNDO.

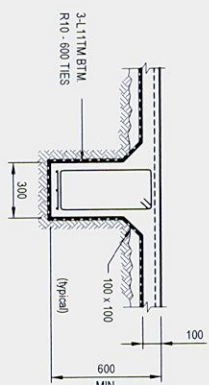
- NOTES
- 1 GROUND SHALL BE PREPARED AS PER AS2870
 - 2 CLASS IV SITE IN ACCORDANCE WITH AS 2870.2
 - 3 LAP TOP & BTM MESH AS PER NOTE R11 ON DRG 11005-PA-S1.00



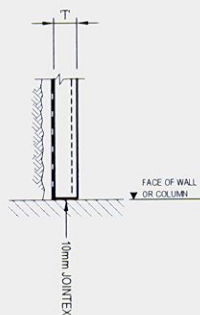
TYPICAL GROUND BEAM 'GB1'



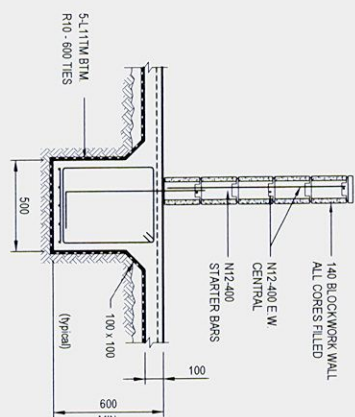
TYPICAL DETAIL AT SC1'



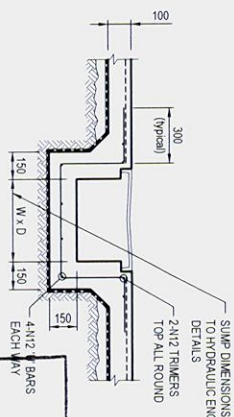
TYPICAL GROUND BEAM 'GB2'



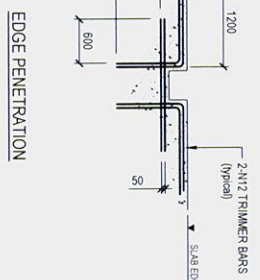
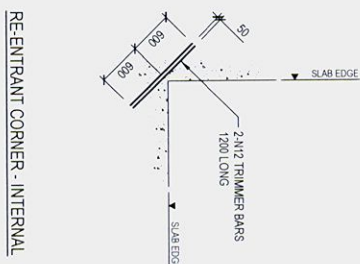
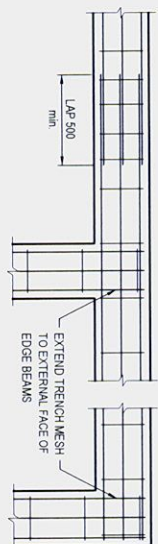
ISOLATION JOINT
TYPICAL AT ALL WALLS AND COLUMNS



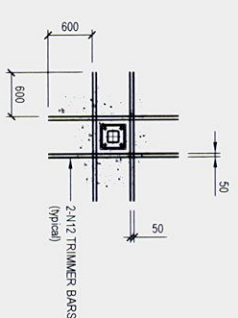
TYPICAL GROUND BEAM 'GB3'



TYPICAL SUMP DETAIL

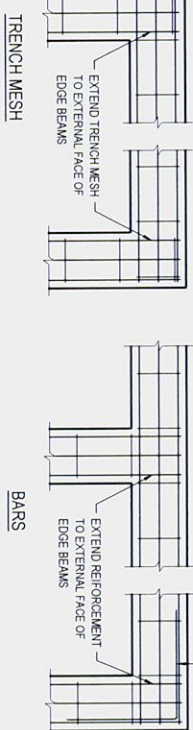


EDGE PENETRATION



COLUMN RECESS
FOR COLUMN AND RECESS DETAILS REFER PLAN

BEAM JUNCTION DETAILS

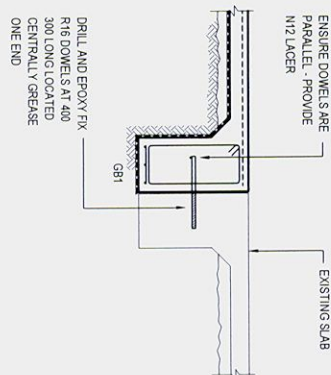


TRENCH MESH

BARS

TYPICAL TRIMMING DETAILS

TYPICAL DOWEL JOINT DETAIL
NOTED D1 ON PLAN



TYPICAL SERVICE PIPE PENETRATIONS IN
SLABS AND FOOTINGS

Client		NORDON JAGO		Author		NORDON JAGO	
Project		NARRABEEN SPORTS HIGH SCHOOL		Drawing Number		11015-NR-S2.00	
Title		GROUND FLOOR SLAB PLAN		Scale		1:100	
Revision		03		Date		11/01/2011	
Revision		02		Date		11/01/2011	
Revision		01		Date		11/01/2011	
Revision		00		Date		11/01/2011	

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Approved document consultation			
METRO BUILDING CONSULTANCY			
Accredited Certifier: Sean Moore - BPS Accreditation No.: 0764			
Signature:	Certificate No:	Date:	
<i>SEAN MOORE</i>	11190cd102	16/12/12	
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NOTE:
PROVIDE "YPEX" WATERPROOFING
AGENT WITHIN THE CONCRETE MIX
MANUFACTURERS SPECIFICATIONS

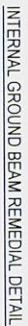
The image contains two technical drawings illustrating the construction of a new service line under an existing footing.

SECTION THROUGH EXISTING FOOTING: This cross-sectional view shows the relationship between the existing structure and the new service line. Key components include:

- SLAB CUT FOR SERVICES:** A vertical cut in the existing slab, 600 units wide, to allow the new service line to pass through.
- EXISTING S.O.G. (Service Opening Gap):** The gap between the existing slab and the footing.
- EXISTING SLAB & FOOTING TO REMAIN:** The portions of the original structure that are not being replaced.
- GROUND TO REMAIN UNDISTURBED UNDER FOOTING:** The soil beneath the existing footing, which is not to be excavated.
- COREDRILL Ø175 MAX. HOLE:** A hole drilled through the existing slab and footing to allow for ground penetration.
- NEW SERVICE LINE UNDER EXISTING FOOTING:** The new line being installed beneath the existing structure.
- EXISTING GROUND BEAM:** The foundation element supporting the existing structure.

ELEVATION ON EXISTING FOOTING: This side view shows the new service line in relation to the existing footing and wall. Key components include:

- EXISTING WALL:** The vertical structure above the footing.
- EXISTING S.O.G. (Service Opening Gap):** The gap between the existing wall and the footing.
- EXISTING SLAB & FOOTING TO REMAIN:** The existing structure above the new service line.
- NEW SERVICE LINE UNDER EXISTING FOOTING:** The new line running parallel to the existing footing.
- EXISTING GROUND BEAM:** The foundation element supporting the existing structure.
- 600 max:** The maximum width of the new service line.



	Civil	
NORDON JAGO		
Architect		
NORDON JAGO		
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01	SUBSID FOR NON-RETURN AND THUNDER	D.S.M
		DATE
		7/25/11

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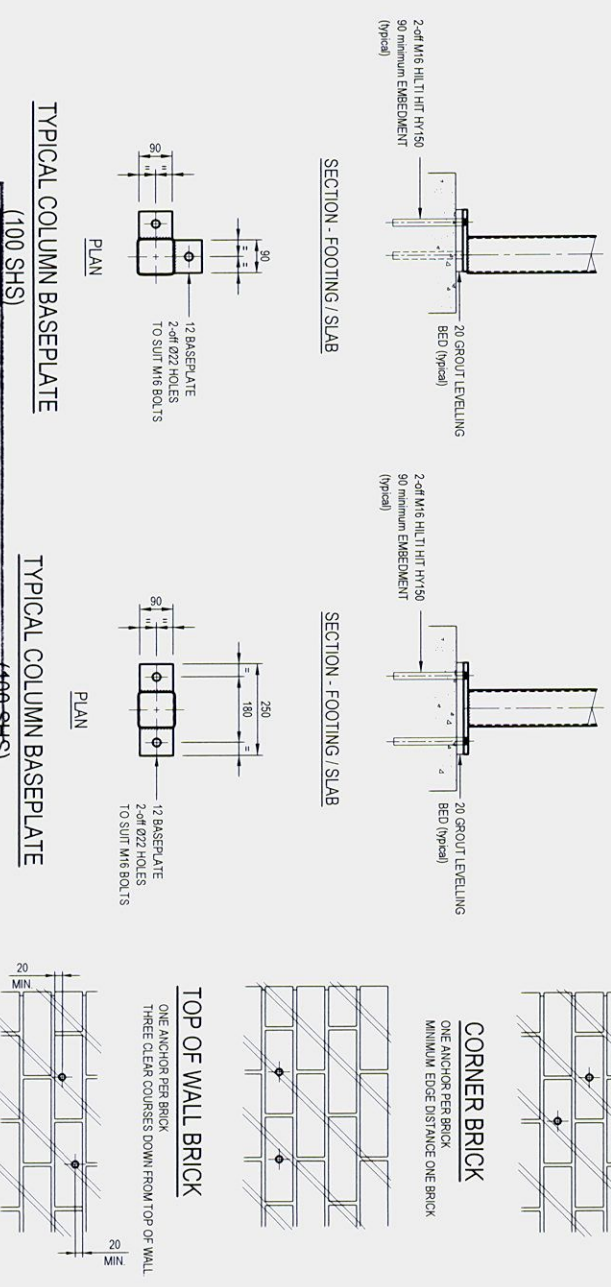
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NARRABEEN NSW 2101

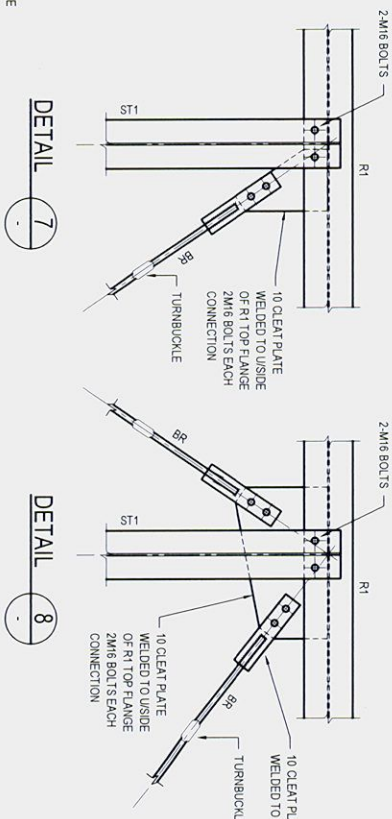
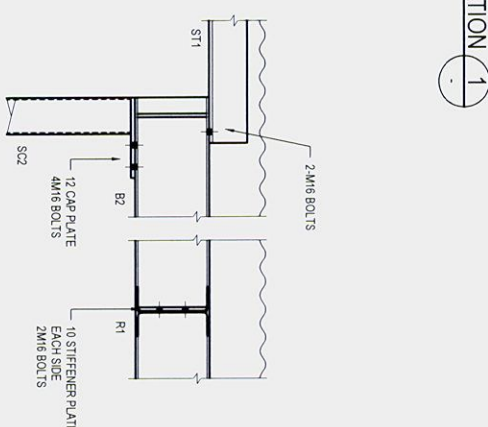
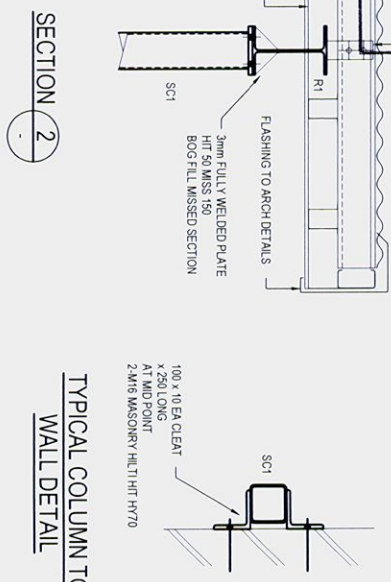
Author	A C W	Drinking water	SEPT 2011
Character	OK	Approved	Scale
Classing number	OK	PRK	1 100 1 20
			Flavour bits
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LINTEL NOTES

- PROP DURING CONSTRUCTION
- 150 BEARING ONTO BRICKWORK TYP.

[illegible]

ABBREVIATIONS

- | | | | |
|------|---|--|--|
| AF | - ABOVE BENCH | | |
| AF | - ABOVE FINISHED FLOOR LEVEL | | |
| AV | - AUDIO VISUAL | | |
| BB | - BELOW BENCH | | |
| CL | - CLEANERS OUTLET (LOCATED 300mm AFL) | | |
| CL | - CEILING MOUNTED | | |
| CS | - CEILING SPACE | | |
| E | - EXISTING | | |
| EP | - EXHAUST FAN | | |
| EP | - EQUIPMENT INLET PANEL | | |
| EP | - EQUIPMENT OUTLET PANEL | | |
| CS | - GAS HEATER | | |
| PI | - PENDANT FITTING SUSPENDED ON CHAIN | | |
| SS | - STAINLESS STEEL | | |
| SS | - STAINLESS STEEL | | |
| WAP | - WIRELESS ACCESS POINT | | |
| WP | - WATERPROOF | | |
| 500 | - MOUNTING HEIGHT 500mm AFL | | |
| 2400 | - 24HR LIGHTING CONTROL CCT ON ESSENTIAL POWER FEED | | |
| UNO | - UNLESS NOTED OTHERWISE | | |
| UNO | - RELOCATE FITTING AS SHOWN | | |
- CONFIRM ALL
OUTLET LOCATION
WITH JOINTERS
BEFORE
COMING TO
OF ANY WORKS

☐ ☒ RATED AS SHOWN. CLIPSA 56/HPM QUANTUM SERIES

- 6** ENERGY EFFICIENT (LOW OUTPUT) 3W LED/ NON DIMMABLE TYPE PERLUITE - PERLUITE
- B1** 10W FLUORESCENT TRADITIONAL STYLE RUNNING VAN EXIT LUMINAIRE COMPLETE WITH OPERATOR AND PHOTOBOMB LEGCO COMPLAINT TO AS2323 TYPE PERLUITE - DIRECTOR - DIRMOMASS
- B2** 10W FLUORESCENT TRADITIONAL STYLE RUNNING VAN EXIT LUMINAIRE COMPLETE WITH OPERATOR AND PHOTOBOMB LEGCO WITH DIRECTIONAL ARROWS COMPLAINT TO AS2323 TYPE PERLUITE - DIRECTOR - DIRMOMASS
- B3** EXISTING 420MM FLUORESCENT SURFACE MOUNTED LIGHT FITTINGS (ALLOW TO STAY IN PLACE) COMPLAINT TO AS2323 TYPE PERLUITE - DIRECTOR - DIRMOMASS
- R** - REMOVED TO BE RELOCATED AS SHOWN
- LIGHTING LEGEND:**

EOP EQUIPMENT OUTPUT PANEL FOR INTERACTIVE WHITEBOARD

- 2-228, 15, 400K SURFACE MOUNTED VANDAL RESISTANT
FLOODLIGHT LUMINAIRE WITH POLYCARBONATE DIFFUSER
TYPE: PERLITE VO SERIES - 10228

- SMART USB 15W SELF POWERED SPEAKERS
- (PROJECTOR WALL MOUNT AND CABLES INCLUDED)

- NEW SINGLE TOA SWITCH (WHITE), CLIP-ON OR HOLE MOUNT. EXISTING.
- NEW SWITCH WITH DIMMER RATED TO SUIT SWITCHING LOADS AS SHOWN.
- LIGHT SWITCH PANEL (STAINLESS STEEL), NUMBER OF SWITCHES AS SHOWN IN THE DRAWINGS.
- 360° LIGHTING CONTROL, PR
- SWITCH WIRE

 NEW COMMUNICATIONS CABLE TRAY

3. ALL OUTLETS ARE TO BE LABELED WITH BROTHER TYPE LABELING SYSTEM UNDERNEATH COVER PLATE. WHERE STANDARD-TYPE OUTLETS ARE USED, LABELINGS SHALL BE ENGRAVED IRREMOVABLE.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF THE INSTALLATION AND ASSOCIATED COSTS FROM SUPPLY, ADHESIVE, ETC.
5. ELECTRICAL CONTRACTOR TO ALLOW SUFFICIENT ALLOWANCE FOR LINE AND INSTALL TEMPORARY ELECTRICAL, TELEPHONE (TEMPORARY LAN) AND DATA CONNECTIONS FOR CONSTRUCTION STAGE SITE REQUIREMENTS. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR DISCONNECTION AND REMOVAL OF ABOVE TEMPORARY SERVICES CONNECTIONS AT THE COMPLETION OF THE PROJECT.
6. THE ELECTRICAL AND COMMUNICATION SYSTEM INSTALLATIONS WITH THE TRADING TRAINING CENTRES DESIGN STUDENTS

[illegible]

ISSUE	ISSUE DETAILS	DATE	CHKD
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8	REVISED TENDER ISSUE	14.10.11

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NSW 2009

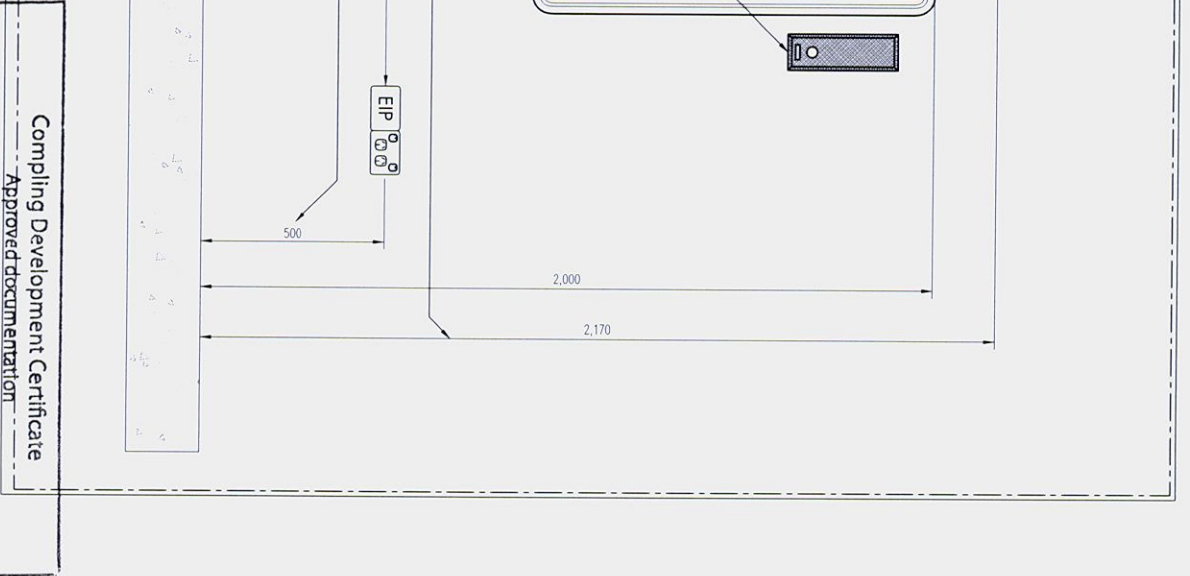
02 9552 2022
02 9552 2044
ANZ 81 010 743 3798

Diagram illustrating the rear panel layout (EOP) for the IWB equipment. The panel features the following ports and connections:

- USB
- VGA OUT 1 (15 pin 1500cm)
- VGA OUT 2 (15 pin 1500cm)
- 15 pin 1500cm
- 5 pin 50cm
- 6 pin 50cm
- PC AUDIO OUT
- 4 pin 50cm
- DOOR & DATA OUTLET

NOT TO SCALE

PANEL LAYOUT (EOP)

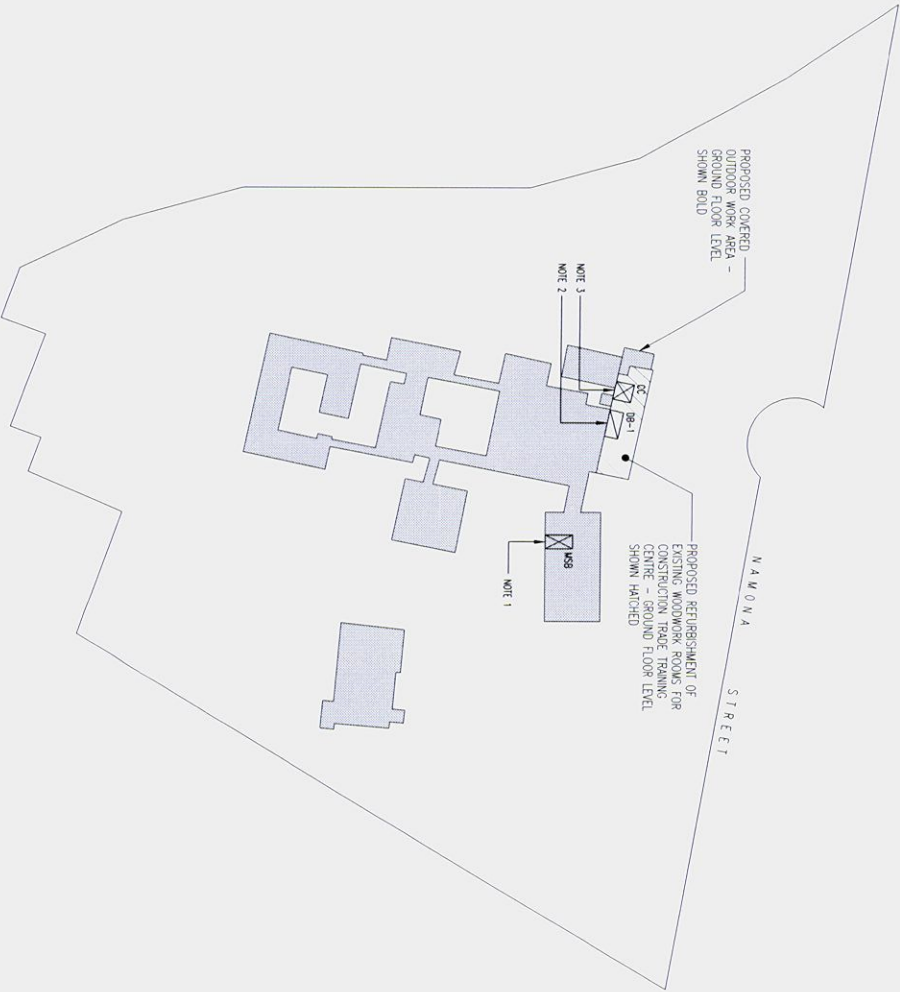


TRADE T
NARABABESI
SCHOOL

DESIGNED: JIM
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1

DRAWING No: S11139-E01-B

- NOTES:**
1. APPROXIMATE LOCATION OF EXISTING 400A/3ø MAIN SWITCH BOARD.
 2. APPROXIMATE LOCATION OF EXISTING DISTRIBUTION BOARD DB-1 SERVING EXISTING WOODWORK BUILDING.
 3. APPROXIMATE LOCATION OF EXISTING COMMUNICATION CABINET IN EXISTING WOODWORK BUILDING.



SITE PLAN
ELECTRICAL RETICULATION LAYOUT
SCALE 1:500

Compiling Development Certificate Approved documentation			
METRO BUILDING CONSULTANCY			
Accredited Certifier: Sean Moore - BPS Accreditation No: 0764			
Signature: <i>Sean Moore</i>	Certificate No: <i>1190cd02</i>	Date: <i>10/2/12</i>	
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009 Telephone: (02) 9692 8477 Fax: (02) 8209 4955			

1. Jerry Montgomery PROJECT ENGINEER,
SENIOR ELECTRICAL QUALITY
ASSURANCE PROCEDURES ARE COMPLETE

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info@medland.com.au

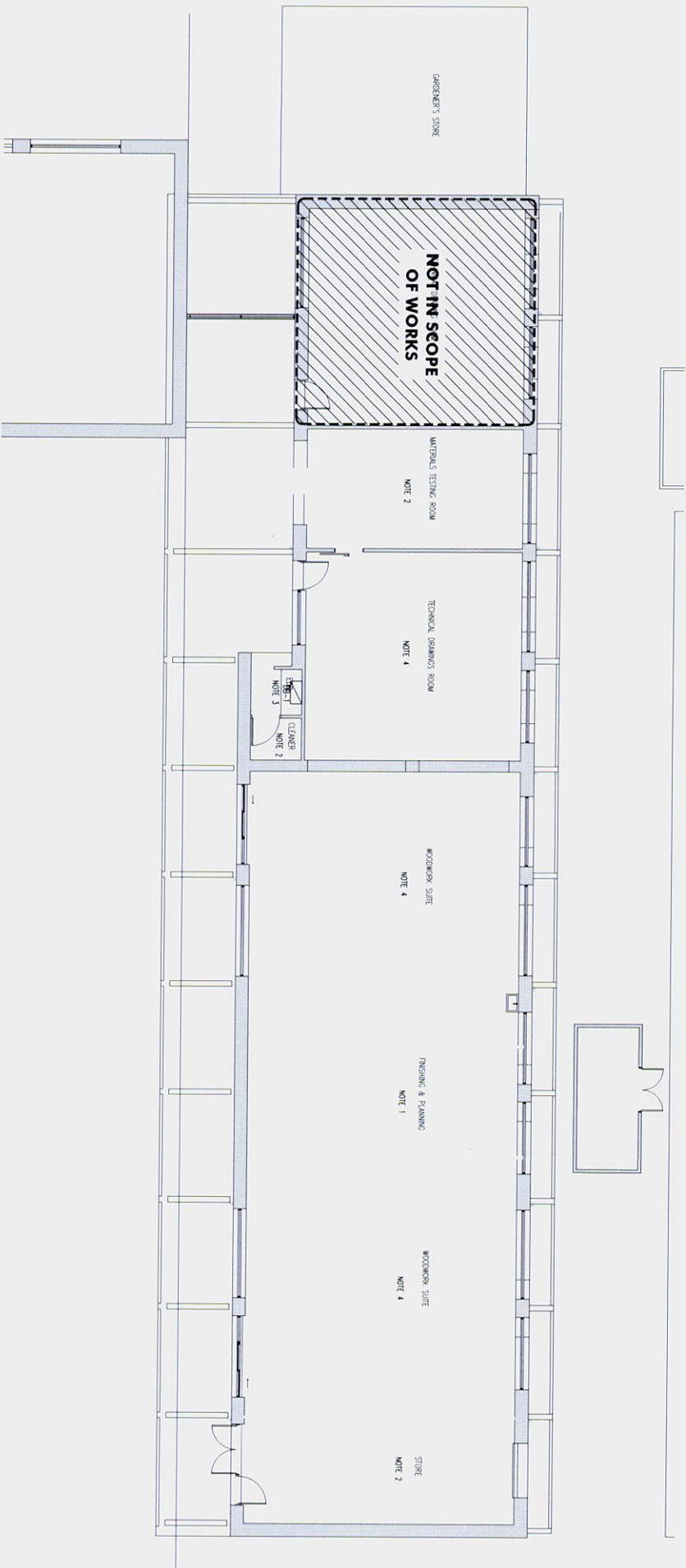


TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

ELECTRICAL SERVICES
SITE PLAN
ELECTRICAL RETICULATION
LAYOUT

DESIGNED
DATE
SCALE
DRAWN
DATE
SCALE
J.M.
E.R.
SEPTEMBER 2011
AS SHOWN AT A1
DRAWING No
S11139-E02-B

- NOTES:**
- CAREFULLY DISCONNECT AND REMOVE ALL LIGHTING, POWER AND DATA OUTLETS WITH WIRING. ALL REDUNDANT AND REUSABLE FITTINGS/OUTLETS TO BE RETURNED TO BUILDING MANAGEMENT.
 - ALL LIGHTING, POWER AND DATA OUTLETS TO BE RETAINED UNLESS NOTED OTHERWISE.
 - EXISTING DISTRIBUTION BOARD DB-1 TO BE RETAINED.
 - ALL EXISTING LIGHTING, FANS AND SECURITY OUTLETS SHALL BE RETAINED. REMOVE ALL EXISTING POWER AND DATA OUTLETS EXCEPT POWER AND DATA FOR EXISTING TV AND WIRELESS ROUTERS (WAP).



**LIGHTING, POWER AND COMMUNICATIONS
DEMOLITION LAYOUT**

SCALE 1:100

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Approved documentation			
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Accredited Certifier Sean Moore – BPB Accreditation No.: 0764			
Signature:	Certificate No:	Date:	
	11190cdcd02	10/2/12	
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009			
Telephone: (02) 9692 8477 Fax: (02) 8209 4955			

I, Jerrisa Medland, PROJECT ENGINEER,
SIGN OFF TO CONFIRM ALL QUALITY
ASSURANCE PROCEDURES ARE COMPLETE

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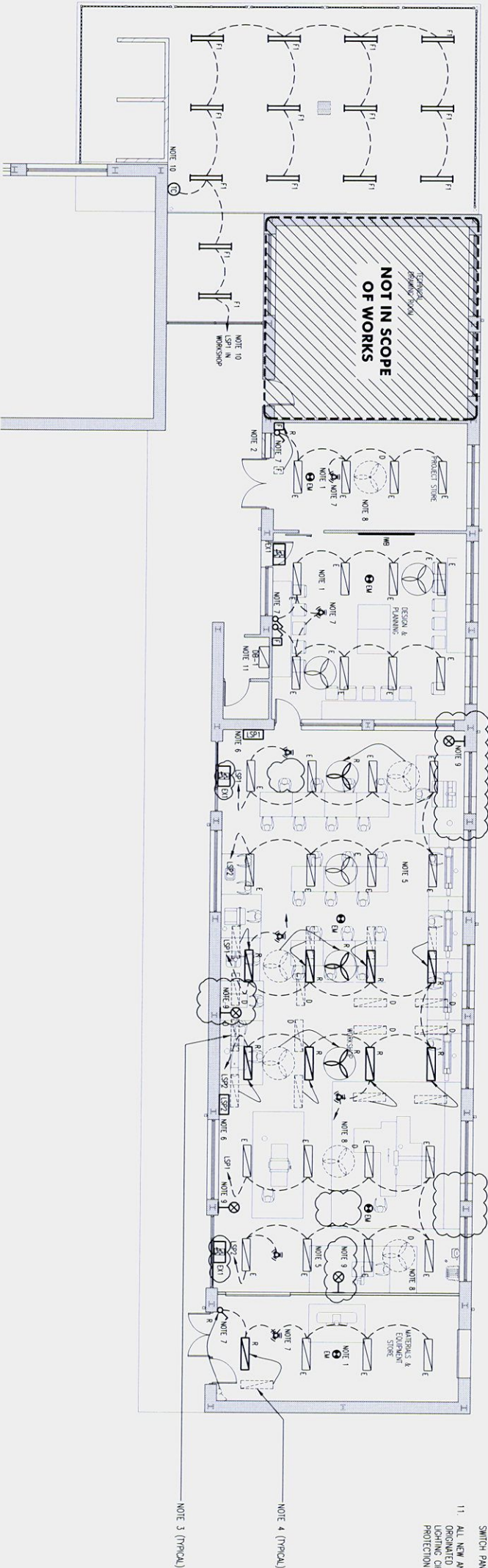
TRADE TRAINING CENTRES
NARABEEN SPORTS HIGH
SCHOOL

ELECTRICAL SERVICES
LIGHTING, POWER AND
COMMUNICATIONS
DEMOLITION LAYOUT

DESIGNED: JM
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1
DRAWING No: S11139-E03-B

NOTES:

- EXISTING LIGHTING AND SWITCHING ARRANGEMENT TO BE RETAINED. ALLOW TO CLEAN AND RE-LAMP FITTINGS.
- EXISTING LIGHT SWITCHES AND FAN CONTROLLERS TO BE RELOCATED AS SHOWN TO ACCOMMODATE NEW PAIR OF DOORS.
- EXISTING LIGHT FITTINGS TO BE REMOVED (TYPICAL FOR FITTINGS MARKED WITH 'D') WITH THE WIRING. REMOVED FITTINGS TO BE RETURNED TO BUILDING MANAGEMENT.
- EXISTING LIGHT FITTINGS TO BE RELOCATED AS SHOWN (TYPICAL FOR FITTINGS MARKED WITH 'R').
- ALLOW TO REMOVE EXISTING AND RELOCATED LAMP FITTINGS TO MATCH WITH NEW SWITCHING ARRANGEMENT.
- SUPPLY AND INSTALL NEW STAINLESS STEEL SWITCH PANELS (LSP1 AND LSP2) FOR TWO WAY SWITCHING IN WORKSHOP AREA TO MANUALLY OVERRIDE THE PRE DETECTOR CONTROLS OVER LIGHTING.
- REPLACE THE EXISTING LIGHTING SWITCHES WITH NEW LIGHT SWITCHES TO MANUALLY OVERRIDE THE SWITCHING PRE CONTROLS TO OPERATE THE LIGHT FITTINGS AS REQUIRED BY BCA.
- REMOVE THE EXISTING CEILING FANS WITH WIRING AND MAKE GOOD. REMOVED FITTINGS TO BE CLEANED AND RETURNED TO BUILDING MANAGEMENT.
- ALLOW TO SUPPLY AND INSTALL NEW WALL MOUNTED FANS WITH CONTROLLERS AT 2200mm ABOVE FINISHED FLOOR LEVEL.
- ALLOW TO SUPPLY AND INSTALL A TIMER CONTROLLER TO OPERATE THE LIGHTING WITHIN COMA DURING NORMAL HOURS OF OPERATION TOGETHER WITH MANUAL OVERRIDE FACILITY WITH A SWITCH IN THE LIGHTING SWITCH PANEL (LSP1) IN WORKSHOP.
- ALL NEW AND MODIFIED LIGHTING CIRCUITS TO BE ORIGINATED FROM DB-1. ALL NEW AND MODIFIED LIGHTING CIRCUITS ARE TO BE PROVIDED WITH RCD PROTECTION AS REQUIRED BY ASS5000:2007.



LEVEL 1
LIGHTING LAYOUT
SCALE 1:100

1. Jerrard Medland, PROJECT ENGINEER,
SIGN OFF TO CONFIRM ALL WORK IS COMPLETED
ASSURANCE PROCEDURES ARE COMPLETE

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TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

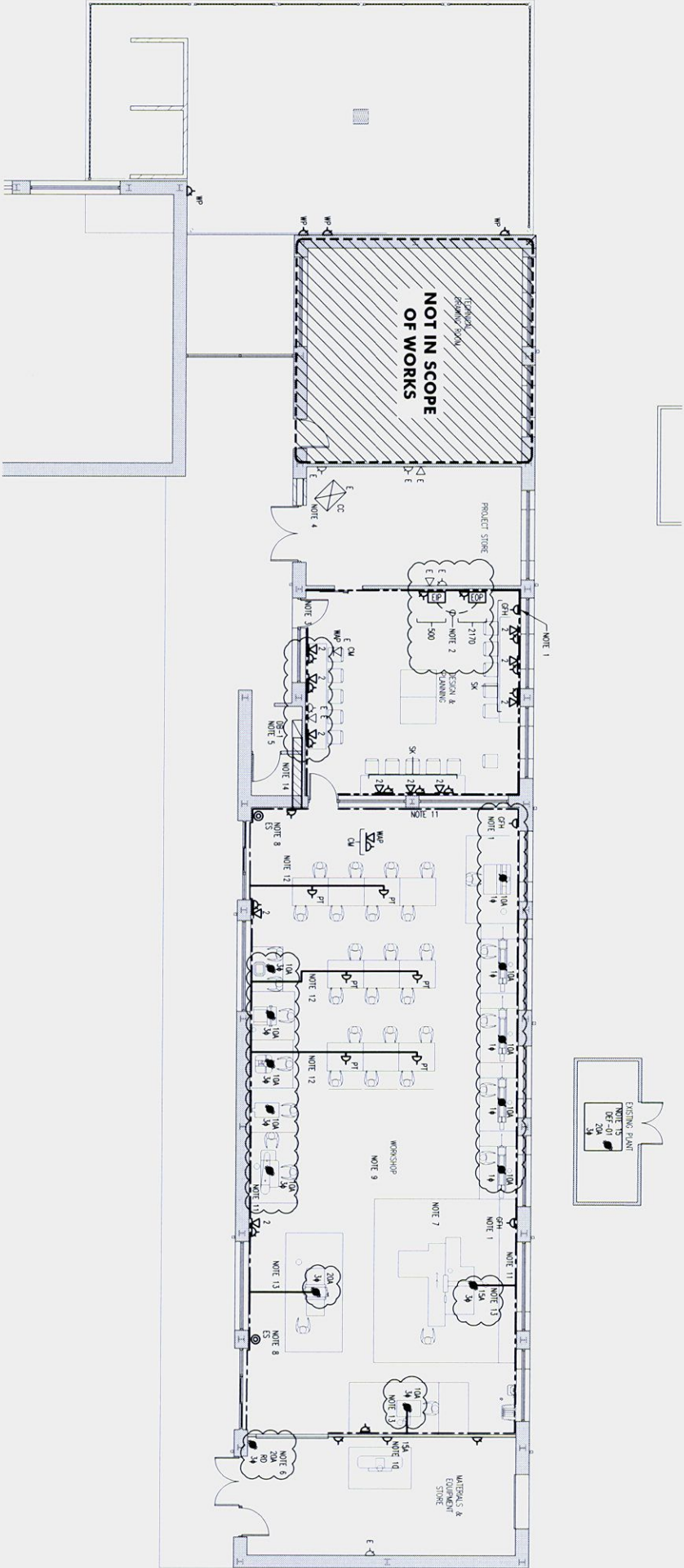
ELECTRICAL SERVICES
LEVEL 1
LIGHTING LAYOUT

DESIGNED: JM
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1
DRAWING No: S11139-E04-B

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Date: 10/2/12	
Studio 1.05, 56 Bowman St, Pyrmont NSW 2009	
Telephone: (02) 9692 8477 Fax: (02) 8209 4955	

NOTES:

- SUPPLY AND INSTALL 10A SINGLE GPO FOR GAS HEATER EXACT LOCATION TO BE CONFIRMED ON SITE.
- SUPPLY AND INSTALL CONNECTION CABLING BETWEEN ING, EEP, AND EEP PANELS. CABLES SHALL BE INSTALLED IN A WHITE PVC CONDUIT CONCEALED IN THE WALL.
- SUPPLY AND INSTALL NEW 2 CHANNEL SPRING DUCT ALONG THE PERIMETER WALL 900mm HIGH.
- EXISTING COMMUNICATION CABINET SHALL BE RETAINED. REMOVE ALL REDUNDANT VOICE/DATA OUTLETS WITH THE CABINING. ALL NEW VOICE/DATA OUTLETS TO BE WIRED BACK TO THIS COMMUNICATION CABINET. ALLOW FOR NEW CAT6 CABLEING FOR NEW OUTLET INSTALLATIONS.
- EXISTING 75A/2A, 80 POLE DISTRIBUTION BOARD TO BE MODIFIED. REMOVE ALL REDUNDANT CIRCUITS WITH THE BOARD. PROVIDE NEW 100A/200A ROLLER SHUTTER BREAKERS WITH RCD PROTECTION FOR NEW POWER FEEDS IN WORKSHOP AREA AS REQUIRED BY AS3000:2007.
- SUPPLY AND INSTALL 20A/2A POWER ISOLATOR FOR ROLLER SHUTTER. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL GPOED HPB, 3A MECHANICAL MOTOR (20A) FOR AUSTRAL WINDSON H13 ROLLER SHUTTER.
- REMOVE ALL EXISTING POWER AND DATA OUTLETS WITHIN WORKING WITHIN THE WORKSHOP AREA.
- PROPOSED LOCATION FOR EMERGENCY MACHINE STOP PUSH BUTTON. PUSH BUTTON SHALL BE MOUNTED ON HEAD DESIGN WITH KETO SWITCH TO ALLOW THE CIRCUITS TO BE REACTIVATED FROM WITHIN THE WORKSHOP. PUSH BUTTON TO BE INSTALLED IN SUCH A WAY THAT IT WILL TURN OFF ALL FIXED MACHINERY AND GPO'S WITHIN THE WORKSHOP. THEY SHALL NOT DEACTIVATE THE FUME/DUST EXTRACTION PLANTS OR ANY AIR COOLING PLANTS.
- SUPPLY AND INSTALL 3 OFF 15A/1A ISOLATORS FOR WORKSHOP AIR FILTRATION SYSTEM REFER TO MECHANICAL SERVICES DRAWING S1139-A02 FOR DUCT LOCATION. ELECTRICAL CONTRACTOR TO PROVIDE MECHANICAL SERVICES CONTRACTOR ON SITE.
- SUPPLY AND INSTALL 15A/020 FOR PORTABLE AIR COMPRESSOR. EXACT LOCATION TO BE CONFIRMED.
- SUPPLY AND INSTALL NEW ELECTRICAL CABLE DUCT AT 900mm AFTL FOR ELECTRICAL CABLE INSTALLATION. COORDINATE CABLE DUCT ROUTE WITH OTHER SERVICES/CONVEYER ON SITE.
- POWER CABLES FOR PENDANT OUTLETS SHALL ROUTE IN 420mm Ø PVC CONDUIT TO THE UNDERSIDE OF ROOFING. PENDANT OUTLETS TO BE MOUNTED AT 2700mm.
- POWER CABLES FEEDING EQUIPMENT TO RISE UP TO THE CEILING LEVEL ALONG THE WALL IN PVC CONDUITS (420mm) AND FIXED TO THE UNDERSIDE OF ROOFING. ALLOW TO SUPPLY AND INSTALL A POWER POLE TO DROP DOWN THE CABLE FROM ROOFIT LEVEL TO EQUIPMENT CONTROL PANEL.
- ALLOW TO SUPPLY AND INSTALL NEW 300mm WIDE CABLE TRAY FOR ELECTRICAL CABLE INSTALLATION AT A HIGHER LEVEL.
- SUPPLY AND INSTALL 20A/2A POWER ISOLATOR FOR DUST EXTRACTION FAN. LIGSE WITH THE MECHANICAL SERVICES CONTRACTOR ON SITE.



LEVEL 1
POWER AND
COMMUNICATIONS LAYOUT
SCALE 1:100

1. *Jeremy Montgomery* PROJECT ENGINEER,
SIST OFF TO CONFORMAL QUALITY
ASSURANCE PROCEDURES ARE COMPLETE

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FOR LEGEND & NOTES REFER DRAWING E01

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B	REVISED TENDER ISSUE	14.10.11	



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TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

ELECTRICAL SERVICES
LEVEL 1
POWER AND
COMMUNICATIONS LAYOUT

DESIGNED:
DATE:
SCALE:
DRAWING No:
S11139-E05-B

Compiling Development Certificate Approved document consultation METRO BUILDING CONSULTANCY		
Accredited Certifier: Sean Moore – BPB Accreditation No.: 0764		
Signature: <i>SA00E</i>	Certificate No: <i>11190cd602</i>	Date: <i>10/2/12</i>
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— H —	EXISTING HOUSE DRAIN
— W —	EXISTING DOMESTIC WATER SERVICE
— + —	PUMP OUT PREWORK
— . . . —	NEW COLD WATER SERVICE
— —	NEW HOT WATER SERVICE
— —	NEW WARM WATER
— — — — —	NEW SANITARY PLUMBING
— — — — —	NEW VENT PREWORK

1. THE HYDRAULICS CONTRACTOR IS TO WEAR THE SITE PRIORITY TO SUBMISSION OF THE QUOTATION. THE HYDRAULICS CONTRACTOR IS TO BRING HIS OWN PERSONAL PROTECTIVE EQUIPMENT TO THE PROJECT. THE CONSULTANT BEAR THE COST OF TRAVEL TO THE PROJECT AND BE APPROPRIATE TOUGH VEHICLE OF THE CONTRACTOR TO INSPECT THE SITE.
2. THE ENTIRE WORKS UNDER THIS SECTION OF THE CONTRACT SHALL BE INSTALLED BY A LICENSED PLUMBER AND UNDER THE DIRECT SUPERVISION OF THE ASSISTANT PROJECT MANAGER. THE ASSISTANT PROJECT MANAGER IS THE DESIGNED PERSONNEL, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT. THE ASSISTANT PROJECT MANAGER SHALL BE BORNED TO THE PROJECT ACCORDING WITH BUILDING CODES AND STANDARDS. THE ASSISTANT PROJECT MANAGER SHALL BE RESPONSIBLE FOR THE PROGRESS OF THE PROJECT. THE ENTIRE WORKS CARRIED OUT FOR THIS PROJECT






















VALVES ARE TO BE MADE BY THE JOINERY CONTRACTOR. COORDINATE ACCESS REQUIREMENTS WITH JOINERY CONTRACTOR PRIOR TO INSTALLATION.

- THE CONTRACTOR IS TO PAY ALL ASSOCIATED FEES, SLURRY AND OBTAIN ALL NECESSARY APPROVALS INCLUDING SPECIAL SERVICES CERTIFICATION AND MAINTAIN A COMPLETE SET OF DRAWINGS OR SET WITH THE LATEST REVISIONS AND RECORD / MARK ALL DEVIATIONS AND CHANGES TO THE ORIGINAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROGRESS, COMPLETION AND MAINTENANCE OF ALL SUCH DRAWINGS AND MAINTAIN OF AN ECHO SLURRY AND TOWN AS THE CONTRACT DRAWS.
- PRIOR TO PRACTICAL COMPLETION PROVIDE FULLY COMPREHENSIVE SET OF OPERATING AND MAINTENANCE MANUALS IN PLAIN ENGLISH. THE CONTENT OF THE MANUALS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
- LOCAL AUTHORITY CERTIFICATE OF FINAL INSPECTION AND APPROVAL.
 - OPERATING INSTRUCTIONS FOR SPECIFIC PLANT THAT REQUIRES DAY TO DAY OPERATION BY PERSONNEL.
 - STARTUP AND SHUTDOWN INSTRUCTIONS AS RECOMMENDED BY THE EQUIPMENT SUPPLIER.
 - MAINTENANCE PROCEDURES AND PLANT THAT IS USABLE TO FAILURE WITHOUT SUCH MAINTENANCE.
 - MANUFACTURERS BROCHURES, PROVIDING VISUAL RECOGNITION OF EACH COMPONENT OR ASSEMBLY AS WELL AS NAME OF MANUFACTURER AND ADDRESS FOR PROCUREMENT.
 - MANUALS ARE TO BE FULLY BOUND IN BOOK FORM COMPREHENSIVE OF A4 SHEETS OR A4 SHEETS SPOKE FOLDED LARGER SHEETS OR DRAWINGS ARE TO BE ENCLOSED IN CLEAR VAIN SLIVERS, SHEETS AND SLIVERS ARE TO BE STAPLED AND CONTAINED IN QUALITY VAIN FOLDERS LABELED ON THE OUTSIDE FRONT COVER AND ON THE SPINE TO DESCRIBE THE CONTENT OF THE PROJECT, CLIENT AND THE SERVICES DESCRIBED THEREIN.
 - COPIES OF WARRANTY REGISTRATION CERTIFICATES FOR EACH ITEM OF EQUIPMENT.
 - LOG SHEETS FOR RECORDING, THE TESTING OF BACKLOG PREVENTION DEVICES, THERMAL WAYS AND THERMAL WAIN WAIN WAYS, THE LOG SHEET DATA, AND THE TEST PROCEDURES AND MAINTENANCE OF ALL WAIN WAYS, ALONG WITH LIST OF VARIOUS TEST DATA.

S11139-H01 LEGEND AND NOTES

- S11139-H02 SITE PLAN
S11139-H03 LEVEL 1
HOT AND COLD WATER AND NATURAL GAS
LAYOUT
S11139-H04 LEVEL 1
SANITARY PLUMBING AND DRAINAGE LAYOUT

A diagram of a hexagonal nut. Four lines point to different parts of the nut: 'RISER' points to the top edge, 'SERVICE' points to the right side, 'SIZE' points to the central hole, and 'DROPPER' points to the bottom edge.

- | | |
|---|--|
|  | RISE FROM FLOOR TO |
|  | COLD WATER FIXTURE CONNECTION POINT |
|  | HOT WATER FIXTURE CONNECTION POINT |
|  | WASH WATER FIXTURE CONNECTION POINT |
|  | TUNDISH |
|  | IN WALL TUNDISH |
|  | FLOOR WASTE |
|  | FREE HOSE REEL (50m) |
|  | AIR ADMITTANCE VALVE |
|  | CHECK VALVE |
|  | GATE VALVE |
|  | NON-RETURN VALVE |
|  | PRESSURE LIMITING VALVE |
|  | DUAL CHECK VALVE |
|  | DIRECTION OF FLOW |
|  | UNDERGROUND HOT WATER/BOILING + CHILLED WATER UNIT |
|  | THEMOSTATIC MIXING VALVE |
|  | THEMOSTATIC MIXING VALVE IN WALL |
|  | STAINLESS STEEL BOX |
|  | HOT WATER UNIT COMPLETE WITH SAFETYRAZ |
|  | FILTER |

A diagram of a hexagonal nut. Four lines point to different parts of the nut: 'RISER' points to the top edge, 'SERVICE' points to the right side, 'SIZE' points to the central hole, and 'DROPPER' points to the bottom edge.

AV	AIR ADJUSTANCE VALVE
AB	ABOVE BSN
A/C	AIR CONDITIONING
AMC	ACCESSIBLE WATER CLOSET
B	BSN
B/CNHU	BOLING/CHILLED HOT WATER UNIT
B/CNU	BOLING/CHILLED WATER UNIT
BCU	BOLING WATER UNIT
CM	COFFEE MACHINE
CS	CLEANERS SINK
CU	COPPER
CV	CHECK VALVE
CM	COLD WATER
DF	DRINKING FOUNTAIN

- | | | | |
|-----|-----|---------------------------------------|---|
| 1A | UN | DRAINER | 1 |
| 2A | EX | DRAINAGE | 1 |
| 3A | FL | FLOOR WASTE | 1 |
| 4A | FTL | FINISHED FLOOR LEVEL | 1 |
| 5A | FR | FIRE EXIST RETL | 1 |
| 6A | GRS | GALVANISED MILD STEEL | 1 |
| 7A | HD | HEAVY DUTY | 1 |
| 8A | HL | HIGH LEVEL | 1 |
| 9A | HT | HOSPITAL | 1 |
| 10A | HW | HOT WATER | 1 |
| 11A | HWR | HOT WATER RETURN | 1 |
| 12A | HWU | HOT WATER UNIT | 1 |
| 13A | IC | INSPECTION CHAMBER | 1 |
| 14A | IL | INTER LEVEL | 1 |
| 15A | IOS | INSPECTION OPENING ON SURFACE | 1 |
| 16A | LL | LOW LEVEL | 1 |
| 17A | LI | LINOROT TUB | 1 |
| 18A | LI | NOT TO SCALE | 1 |
| 19A | NRN | NON RETURN VALVE | 1 |
| 20A | PS | PIPE OUT SERVICE | 1 |
| 21A | RL | REDUCED/PASSED LEVEL | 1 |
| 22A | RV | REDUCED LEVEL | 1 |
| 23A | SHR | SHOWER | 1 |
| 24A | SK | SKIN | 1 |
| 25A | SV | SERVICE VALVE | 1 |
| 26A | TDR | TEMPERATURE AND PRESSURE RELIEF VALVE | 1 |
| 27A | TD | TUNDRISH | 1 |
| 28A | TD | TUNDRISH | 1 |
| 29A | TD | TUNDRISH FOR AIR CONDITIONING UNIT | 1 |
| 30A | TD | TEMPERATIC MANG VALVE | 1 |
| 31A | TV | TEMPERING VALVE | 1 |
| 32A | UPC | UNPLASTICSED POLY VINYL CHLORIDE | 1 |
| 33A | UR | URINAL | 1 |
| 34A | UV | UNV. FLOOR WASTE | 1 |
| 35A | WC | WATER CLOSET | 1 |
| 36A | W | WATER FLOOR | 1 |
| 37A | W | ISOLATION VALVE | 1 |
| 38A | W | DRAINER | 1 |

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ADDITIONAL CAPACITY	
NO.	DESCRIPTION
10m	#20 COPPER / PE-X - SUPPLY AND INSTALL
5m	#100 HOPE - SUPPLY AND INSTALL
5m	#40 PP-R - SUPPLY AND INSTALL
1 OFF	IN WALL TUBOSH - SUPPLY AND INSTALL
8 hrs	LABOUR

UNUSED ADDITIONAL CAPACITY WILL BE CREDITED TO THE CLIENT UPON PRACTICAL COMPLETION.

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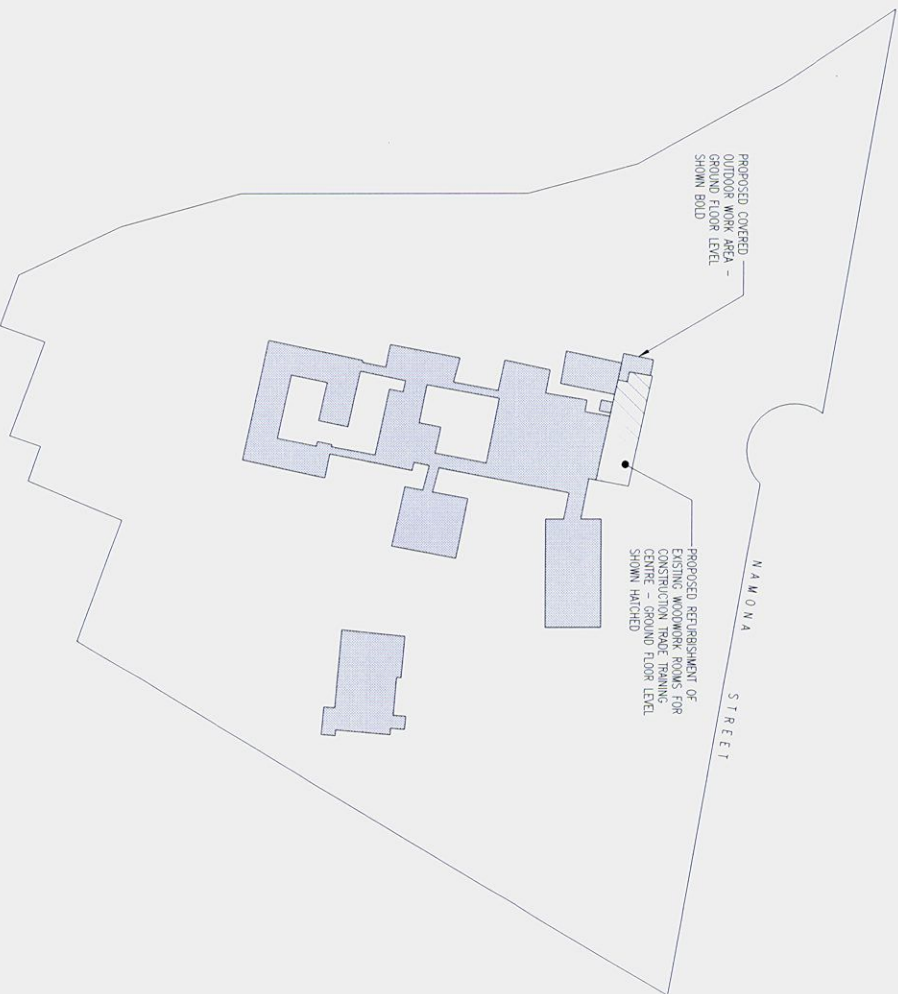
TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

HYDRAULIC SERVICES LEGEND AND NOTES

DESIGNED: JM
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A

DRAWING No: S11139-H01-B

Compiling Development Certificate Approved documentation			
METRO BUILDING CONSULTANCY			
Accredited Certifier Sean Moore - BPB Accreditation No.: 0764			
Signature:	Certificate No:	Date:	
<i>Sean Moore</i>	1119000002	10/12/12	
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SITE PLAN
SCALE 1:500

Compling Development Certificate Approved documentation			
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Signature:	Certificate No: 11190cdcd02	Date: 10/12/12	
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I, **Jeremy Montgomery** PROJECT ENGINEER,
SIGN OFF TO CONFIRM ALL QUALITY
ASSURANCE PROCEDURES ARE COMPLETE.

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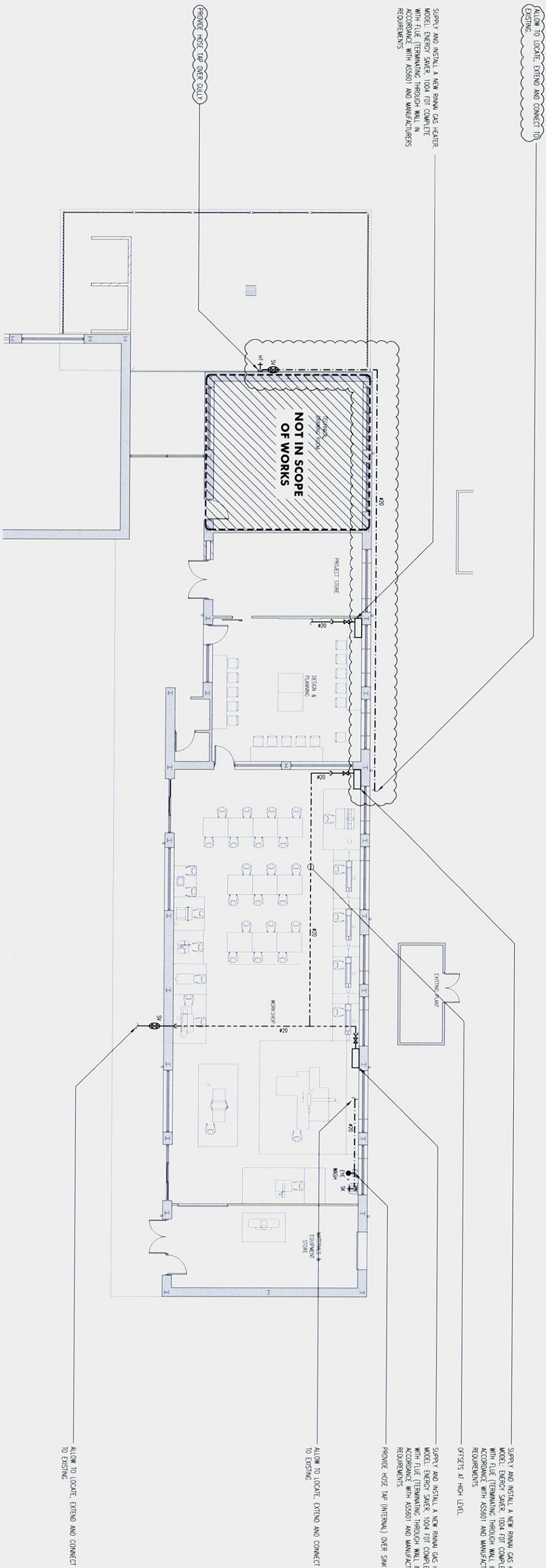
TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

HYDRAULIC SERVICES
SITE PLAN

DESIGNED: JIM
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1

DRAWING No:
S11139-H02-B

NOTES:
1. GAS FLUES FROM HEATERS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWING GAS STD 041 REPA.



**LEVEL 1
HOT AND COLD WATER AND
NATURAL GAS LAYOUT**
SCALE 1:100

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Accredited Certifier: Sean Moore – BPS Accreditation No.: 0764		
Signature: <i>[Signature]</i>	Certificate No: <i>11190cd602</i>	Date: <i>10/21/12</i>
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Jerry Montgomery PROJECT ENGINEER
SIGNED TO CONFIRM ALL QUALITY
ASSURANCE PROCEDURES ARE COMPLETE

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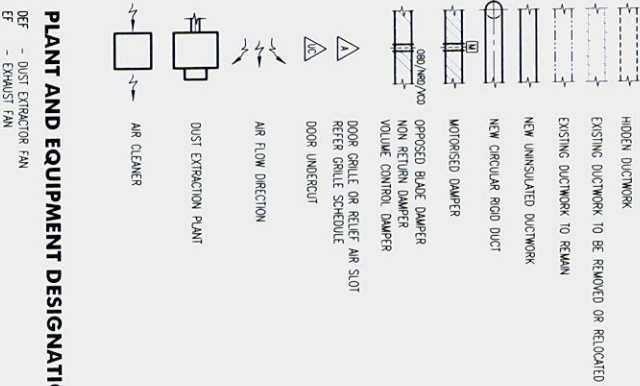


TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH
SCHOOL

HYDRAULIC SERVICES
LEVEL 1
HOT AND COLD WATER AND
NATURAL GAS LAYOUT

DESIGNED: JM
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1
DRAWING No: S11139-H03-B

LEGEND:



PLANT AND EQUIPMENT DESIGNATIONS:

NOTES:

- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE MECHANICAL SERVICES SPECIFICATION. NOTE THAT THE SPECIFICATION IS NOT A GENERIC DOCUMENT AND CONTAINS INSTRUCTIONS CRITICAL TO THE COMPLIANT INSTALLATION OF THESE WORKS.
- REFER TO THE REQUIREMENTS WITHIN THE ASSOCIATED CONSULTING ENGINEER'S SPECIFICATION OF REQUIREMENTS TO THE CONSULTING ENGINEER. THIS IS TO INCLUDE DATES FOR WORKSHOP DRAWINGS, COMMISSIONING FIGURES, MANUALS AND AS INSTALLED DRAWINGS. REFER TO THE MECHANICAL SERVICES SPECIFICATION FOR FURTHER DETAILS ON THESE ITEMS.
- DUCTWORK SIZES INDICATED ARE AIR-MAY SIZE.
- PROVIDE NEAT FINISH ON EXPOSED GALVANISED DUCTWORK TO MODERN STANDARD. PROVIDE CLEAN AND NEAT JOINTS. REMOVE EXCESS SOLIDANT.
- MECHANICAL CONTRACTOR TO FORM (WITH COORDINATION OF OTHER TRADES AND BUILDERS) ALL PENETRATIONS REQUIRED AND ALLOW TO FLASH, SEAL APPROPRIATELY AND MAKE GOOD ADJACENT AFFECTED SURFACES.
- LOCATE EXTRACTION FAN ON SWITCH AS COORDINATED ON SITE WITH AUTHORISED PERSON.

1. Jeremy Montgomery PROJECT ENGINEER,
STRUCTURAL CONSULTANT
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FAN SCHEDULE

FAN NO.	DUTY		MOTOR (kW)	FAN SPEED (RPM)	CONFIGURATION	APPLICATION	dBA @3M	ELECTRICAL REQUIREMENTS		
	AIR QTY (L/s)	STATIC HEAD (mm Wg)						VOLTAZ (V)	PHASE	CURRENT (A)
001-01	1416	270	75	1410	S30 SQUARE WEST EXTRACTION UNIT & S30 SQUARE EAST EXTRACTION UNIT (NOTE: HEIGHT OF UNIT TO BE REMOVED TO FIT IN 1400 PLANT ROOM MEASURE PLANT ROOM FROM TO ORDER)	WOODWORK DUST EXTRACTION	79	415	3	13.8/19
01-01	-	-	0.15	-	W400R WOODWORKING CEILING HANGING UNIT W400-AF10	WOODWORK ROOM AIR CLEANER	-	240	1	-
01-02	-	-	0.15	-	W400R WOODWORKING CEILING HANGING UNIT W400-AF10	WOODWORK ROOM AIR CLEANER	-	240	1	-
01-03	-	-	0.15	-	W400R WOODWORKING CEILING HANGING UNIT W400-AF10	WOODWORK ROOM AIR CLEANER	-	240	1	-

- FANS SHALL BE CATERED FOR MAX. DUCTWORK OR PROOF APPROVED EQUIVALENT.
- FANS SHALL BE INSTALLED FOR PROOFING PURPOSES ONLY. IT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE INSTALLED FAN IS SUITABLY SIZED TO MEET THE EXHAUST RATES IN THE ACTUAL INSTALLED SYSTEM.
- ALL IN-LINE FANS SHALL BE WRAPPED IN ACOUSTIC DAMPING WOOL.

ADDITIONAL CAPACITY

DESCRIPTION	
No.	
Item	#150 DUCTWORK

UNUSED ADDITIONAL CAPACITY WILL BE CREDITED TO THE CLIENT UPON PRACTICAL COMPLETION.

MECHANICAL SERVICES DRAWING LIST

S11139-M01 LEGEND AND NOTES
S11139-M02 LEVEL 1
AIR CONDITIONING AND VENTILATION LAYOUT

TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH SCHOOL

MECHANICAL SERVICES
LEGEND AND NOTES

DESIGNED: BP
DRAWN: ER
DATE: SEPTEMBER 2011
SCALE: AS SHOWN AT A1

DRAWING No: S11139-M01-B

Compling Development Certificate
Approved documentation

METRO BUILDING CONSULTANCY

Accredited Certifier: Sean Moore – BPB Accreditation No.: 0764

Signature:

Certificate No:

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Date:

10/2/12

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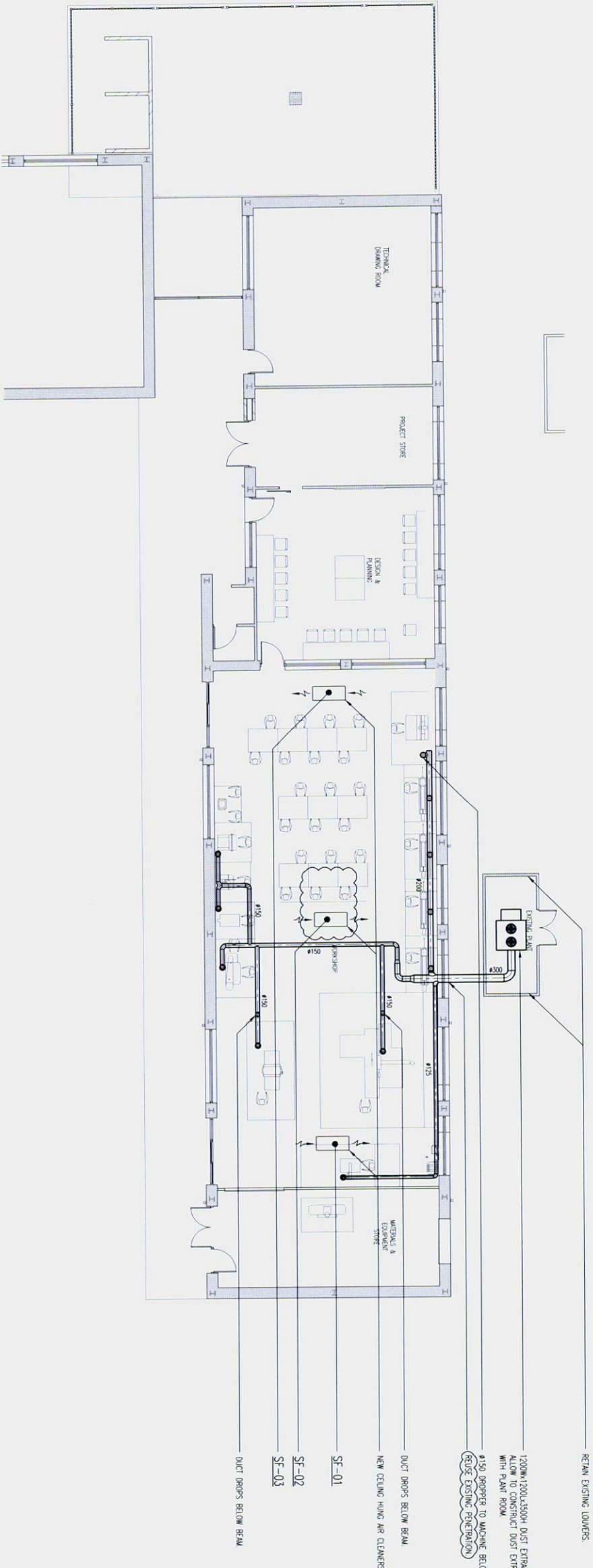
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NOTES:
1. ALLOW TO COORDINATE EXACT LOCATION OF AIR CLEANER UNITS WITH ELECTRICAL CONTRACTOR.



**LEVEL 1
AIR CONDITIONING AND
VENTILATION LAYOUT**
SCALE 1:100

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FOR LEGEND & NOTES REFER DRAWING M01

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2. Medland Metropolis 2011
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TRADE TRAINING CENTRES
NARRABEEN SPORTS HIGH SCHOOL
MECHANICAL SERVICES
LEVEL 1
AIR CONDITIONING AND VENTILATION LAYOUT

DESIGNED BY
DRAWN BY
DATE
SCALE
DRAWING No
S11139-M02-B