

BCA Certifiers Australia Pty Ltd Capital Centre Unit 3 2-6 Shea St Phillip ACT 2606 Phone: 03 63851199 Fore 03 6385

Phone: 02 62851199 Fax: 02 62852795 Email: mail@bcacertifiers.com.au building approvals, certification and compliance

CONSTRUCTION CERTIFICATE

CERTIFICATE NO:

CC140503-4

Date of Certificate:

15 December 2014

Description of the

Proposed development:

Administration & Blower Building

Separated into 2 Fire Compartments
Associated with Water Recycling Plant

Classification under the Building Code of Australia:

5 & 8

APPLICANT

Name:

Mr S Merange

Address:

John Holland Pty Ltd

Project Manager, Specialist Engineering

Googong WRP

PO Box 812 Queanbeyan NSW 2620

PROPERTY (The Land)

Address:

Lot 4 Googong Dam Road GOOGONG

Lot/Sec/DP:

lot 4 DP 1179941

DEVELOPMENT CONSENT

Development Consent Number:

MP 08-0236

Date of Consent:

24/11/2011 modified 09/07/14

Consent authority:

NSW Planning & Environment Director of

Pasco

Infrastructure Projects as a delegate for the Minister

for Planning

CERTIFYING AUTHORITY

Name: Ros Pascoe

Signature:

Accreditation No: BPB 2220

Accred: Building Professionals Board



CERTIFICATION

Ros Pascoe of BCA Certifiers Australia Pty Ltd certifies

That work completed in accordance with the documentation accompanying the application for this certificate (with such modifications, if any, verified by me as may be shown on that documentation) will comply with the requirements of the *Environmental Planning & Assessment Regulation 2000* as referred to in s.81A(5) of the *Environmental Planning & Assessment Act 1979*.

Note: The certificate is to be endorsed upon all relevant plans and specifications.						
		•				
	•					
						

ATTACHMENTS	(Tick as appropriate)
	Schedule of Approved Plans and Specifications
	 The conditions of the certificate
	Fire Safety Schedule

SCHEDULE OF APPROVED PLANS AND SPECIFICATIONS

	Prepared By
Architectural Plans	Site Plan MWH ref no: 83500349-01-001G102 dated 11/08/14
Structural Plans	MWH ref no: 83502156-01-001-G403 rev B 12, G404 B G405 AS400 1S401 1 S402 1S403 1S405 S4061 S407 1 SS412 1 S412 1 S413 1 S414 1 dated 11/12/14

building approvals, certification and compliance

The Conditions of Certificate

Description:	Administration & blower building		
Building Classification:	5 & 8		
Rise in Storeys:	1		
Type of Construction:	С		

Attached are the approved plans for your project at the above address. The plans have been assessed and approved subject to compliance with the Deemed-to-Satisfy Provisions of the Building Code of Australia.

To ensure compliance with the requirements of the BCA the following advice is provided.

Fire Resistance

- The fire hazard properties of materials, linings and surface finishes used are to comply with Specification C1.10.
- A fire wall (90/90/90) is required between the two uses in the building providing compartment under 500m2.

Services and Equipment

- Portable fire extinguishers are to be provided in accordance with Part E1.6 of the BCA.
- Emergency lighting and exit signs are to be provided in accordance with Part E4 of the BCA.

Access and egress

- Access and egress from the building is to comply with Part D of the BCA.
- Steps, landings and balustrades are to comply with Part D of the BCA. A stairway shall not have more than 18 risers in each flight in accordance with Part D2.13 of the BCA.
- The operation of door latches, are to comply with Part D2.21 of the BCA.
- Access for people with disabilities is to be provided to and within the building by means of a continuous path of travel in accordance with AS 1428.1 and Part D3.2 of the BCA.
- Tactile ground indicators are to be in accordance with Part D3.8 of the BCA.
- NOTE: Handrails complying with AS1428.1-2009 must be provided to all stairs.

Health & Amenity



- Water proofing of wet areas are to comply with Part F1.7 of the BCA.
- Lighting system is to comply with Part F4.4 of the BCA and AS1680.0.
- Ventilation system is to comply with Part F4.5 of the BCA and AS1668.2 and AS3666.1
- The construction and layout of facilities provided for people with disabilities must comply with AS1428.1.

Energy Efficiency

- Building fabric must be designed and constructed in accordance with Part J1 of the BCA.
- External glazing must be designed and installed in accordance with Part J2 of the BCA.

Note:

- Upon completion of the project, certificates as per Schedule A must be submitted prior to the release of Occupancy Certificate.
- Inspections, as per Schedule B are required.

Schedule A

Certificates Required

Note* All Certificates are required to be presented on the relevant companies letterhead (with company contact details, including ABN), signed by a suitably qualified person and dated.

- 1. A Survey Certificate is required (Identifying as built boundary setbacks)
- 2. Structural Engineers Certification certifying that-

The building as constructed complies with Part B of the BCA and the

- Certification that Emergency Lighting complies with Part E4.2 and is installed in accordance with AS/NZS 2293.1.
- 4. Certification that Exit Signs comply with Part E4.5 & 4.6 and are installed in accordance with AS/NZS 2293.1. & Certification that the Portable Fire Extinguishers are provided in accordance with Part E1.6 and Table E1.6 of the BCA, and that have been selected, located and distributed in accordance with AS 2444.
- 5. Certification for waterproofing to all wet areas, identifying the product used and stating compliance with AS3740.
- 6. Certification that all glazing complies with AS1288 where applicable. (Note: Certification must itemize the type of glazing and the applicable section of AS1288 to which it complies).

7. Certification that the fire hazard properties of materials, lining BCA certifiers finishes used (ie; Carpet, Vinyl, Etc), comply with Specification of longitudes.

Schedule B

Inspections

The builder is to notify BCA Certifiers upon reaching each inspection stage outlined below by telephoning 62851199. The builder is not to proceed beyond an inspection stage until written approval to proceed has been given by BCA Certifiers.

The stages are:

- After excavation for, and prior to the placement of any footings.
- Prior to the pouring of any in-situ reinforced concrete building element.
- Prior to the covering of any framework for any floor, wall, roof or other building element.
- Prior to covering waterproofing in any wet areas.
- Prior to the covering of any stormwater drainage connections.
- After the building work has been completed and prior to any occupation certificate being issued in relation to the building.



building approvals, certification and compliance

FIRE SAFETY SCHEDULE

CLAUSE 168 EP & A REG. 2000

DA No.:	MP08-023	6 CC No.:	CC140503-4			
Lot:	4	Section:	Deposited 1179941			
Address:	ROIFDING	Googong Water Recycling Plant lot 4 Googong Dam Rd Googong ADMIN & BLOWER				
Applicant's	Name:	Mr S Merange John H	lolland Pty Ltd			
Applicant's Address:		Googong WRP PO Box 812 Queanbeyan NSW 2620				

REQUIRED FIRE SAFETY MEASURES (PROPOSED)

CRITICAL FIRE SAFETY MEASURE (Y/N) INTERVAL FOR SUPPLEMENTARY FIRE SAFETY STATEMENTS MINIMUM STANDARD OF PERFORMANCE

Statutory

BCA 2014/Referenced Standards

Emergency lighting

Ν

12 months

BCA E4.2 & AS2293.1-2005

Exit signs

<u>Other</u>

Ν

12 months

BCA E4.5, E4.6, E4.8 & AS2293.1-2005

Portable fire extinguishers

Ν

12 months

BCA E1.6 & AS2444-2001

EXISTING FIRE SAFETY MEASURES

MWH Ref. 83502156-LT-DM-005

4th December 2014

John Holland Pty Ltd Level 3, 65 Pirrama Road,. Pyrmont NSW 2009

Steve Merange Project Manager

Dear Sir,

Googong WRP Project – Admin/MCC Building Structural Design Certificate of Compliance

This is to certify that the Admin/MCC Building Structural Design has been carried out in accordance with the current editions of the following Australian Standards and other relevant standards, referred to therein, BCA: Building Code of Australia, where applicable, and in accordance with good engineering practice and principles.

- AS 4100 Steel Structures
- AS 3600 Concrete structures
- AS/NZS 1170.0 Structural design actions General Principles
- AS/NZS 1170.1- Structural design actions Permanent Imposed and Other Actions
- AS/NZS 1170.1- Structural design actions Wind Actions

I also confirm that that the design calculations and drawings have been checked and reviewed in accordance with our ISO 9001 certified Quality Assurance System.

Yours Sincerely,

(III) MWH

BUILDING A BETTER WORLD

Satyajit Datar BEng, FIEAust, CPEng, NPER & RPEQ Head of Engineering Delivery - Asia Pacific Design MWH Ref. 83502156-LT-DM-006

4th December 2014

John Holland Pty Ltd Level 3, 65 Pirrama Road,. Pyrmont NSW 2009

Steve Merange Project Manager

Dear Sir,

Googong WRP Project – Blower Building Structural Design **Certificate of Compliance**

This is to certify that the Blower Building Structural Design has been carried out in accordance with the current editions of the following Australian Standards and other relevant standards, referred to therein, BCA: Building Code of Australia, where applicable, and in accordance with good engineering practice and principles.

- AS 4100 Steel Structures
- AS1418.18 Cranes, hoists, winches Crane runways and monorails
- AS 3600 Concrete structures
- AS/NZS 1170.0 Structural design actions General principles
- AS/NZS 1170.1- Structural design actions Permanent Imposed and Other Actions
- AS/NZS 1170.1- Structural design actions Wind Actions

I also confirm that that the design calculations and drawings have been checked and reviewed in accordance with our ISO 9001 certified Quality Assurance System.

Yours Sincerel



BUILDING A SETTER WORLD

Satyajit Datar BEng, FIEAust, CPEng, NPER & RPEQ Head of Engineering Delivery - Asia Pacific Design MWH Ref. 83502156-LT-DM-004

4th December 2014

John Holland Pty Ltd Level 3, 65 Pirrama Road,. Pyrmont NSW 2009

Steve Merange Project Manager

Dear Sir.

Googong WRP Project – Tertiary Treatment Area Structural Design Certificate of Compliance

This is to certify that the Tertiary Treatment Area Structural Design has been carried out in accordance with the current editions of the following Australian Standards and other relevant standards, referred to therein, BCA: Building Code of Australia, where applicable, and in accordance with good engineering practice and principles.

- AS 4100 Steel Structures
- AS 3600 Concrete structures
- AS/NZS 1170.0 Structural design actions General principles
- AS/NZS 1170.1- Structural design actions Permanent Imposed and Other Actions
- AS/NZS 1170.1- Structural design actions Wind Actions

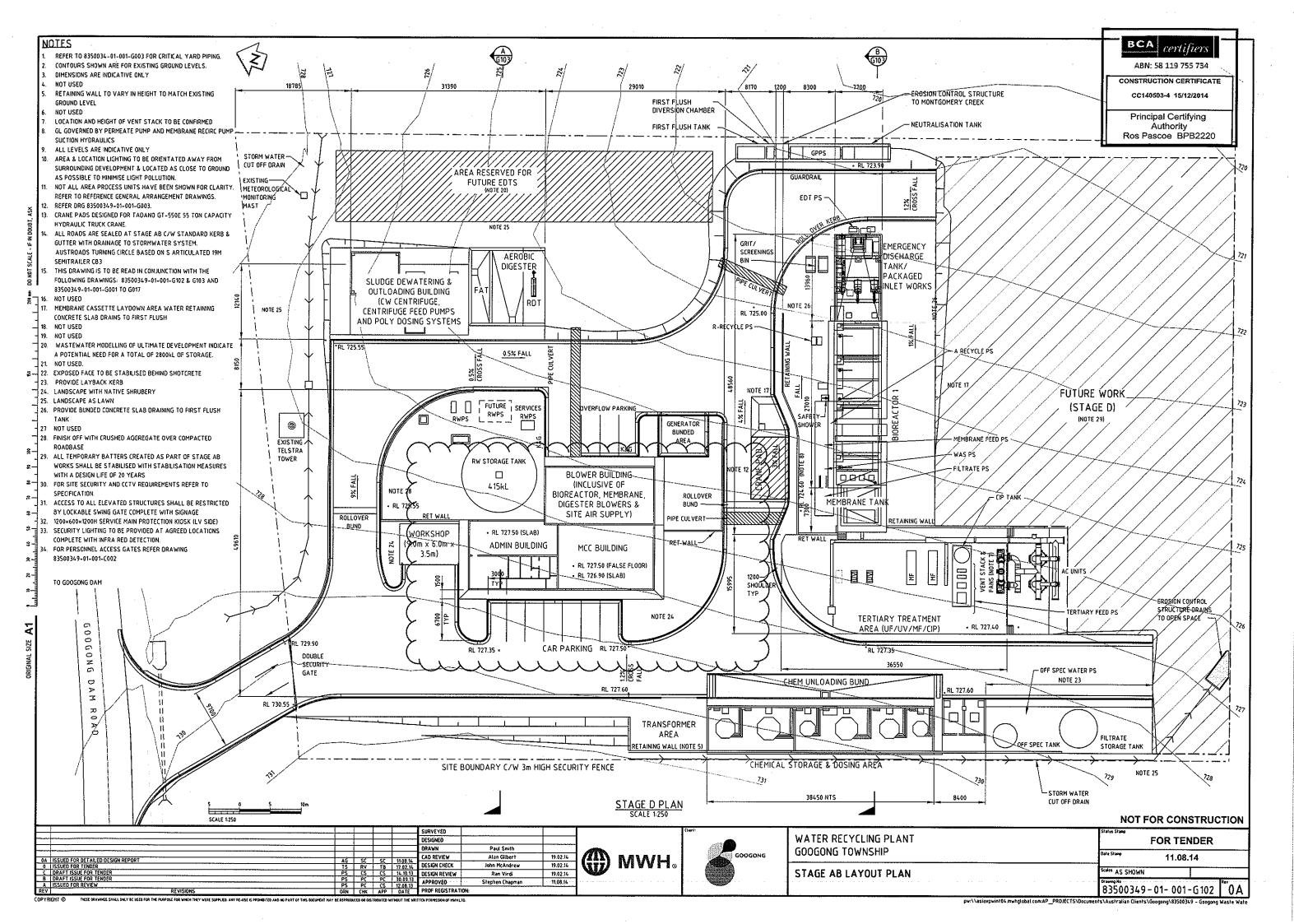
I also confirm that that the design calculations and drawings have been checked and reviewed in accordance with our ISO 9001 certified Quality Assurance System.

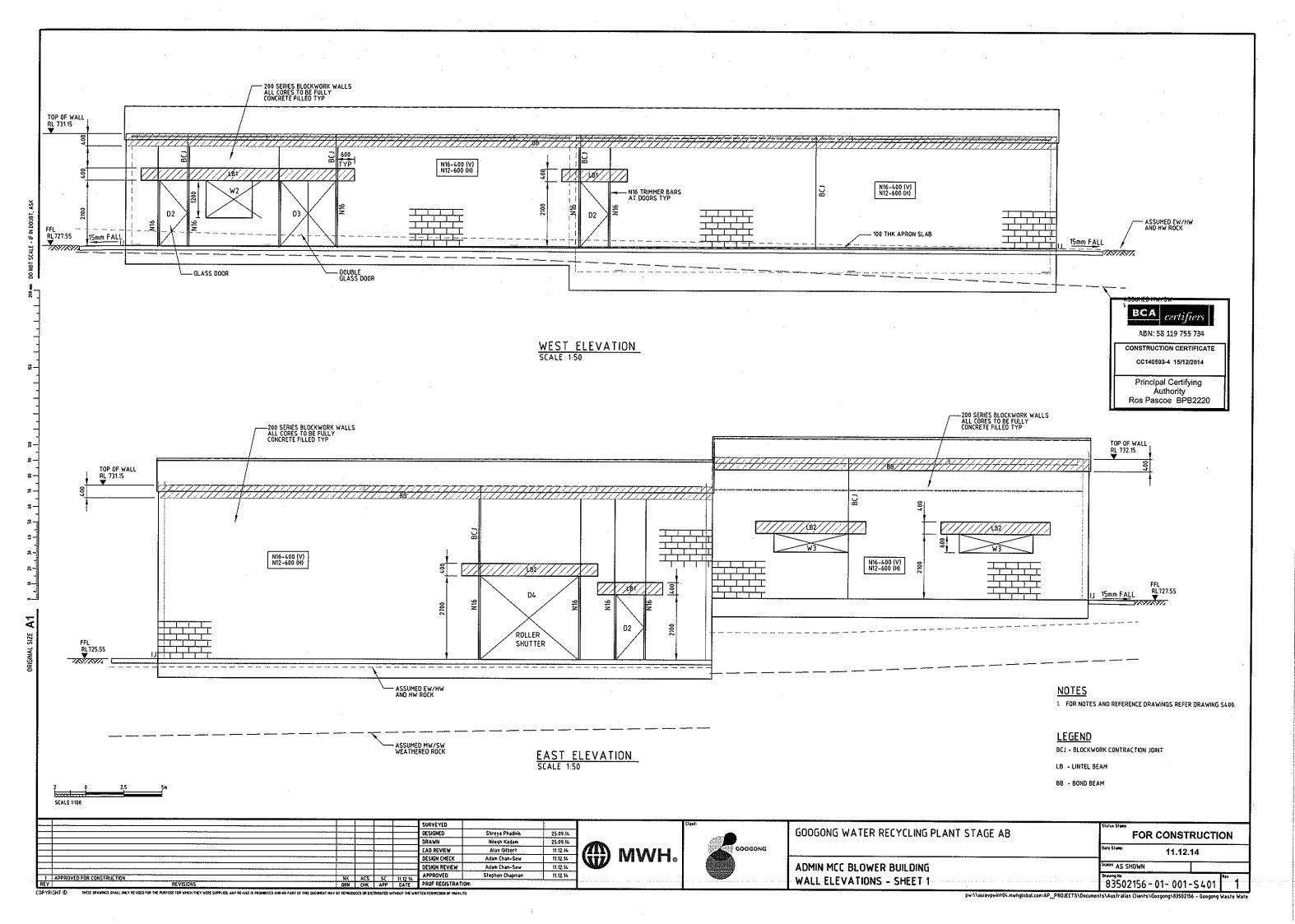
Yours Sincerely

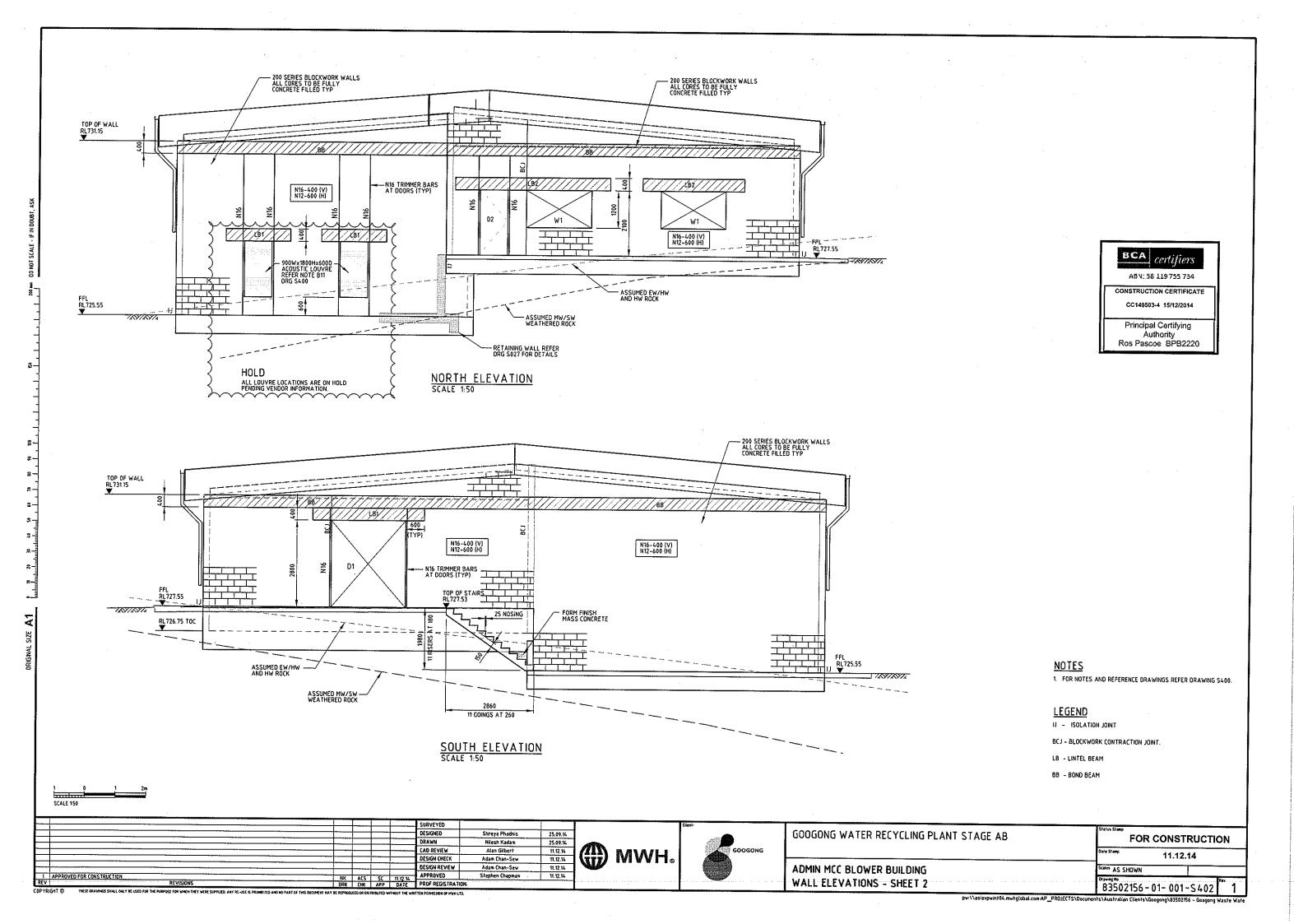


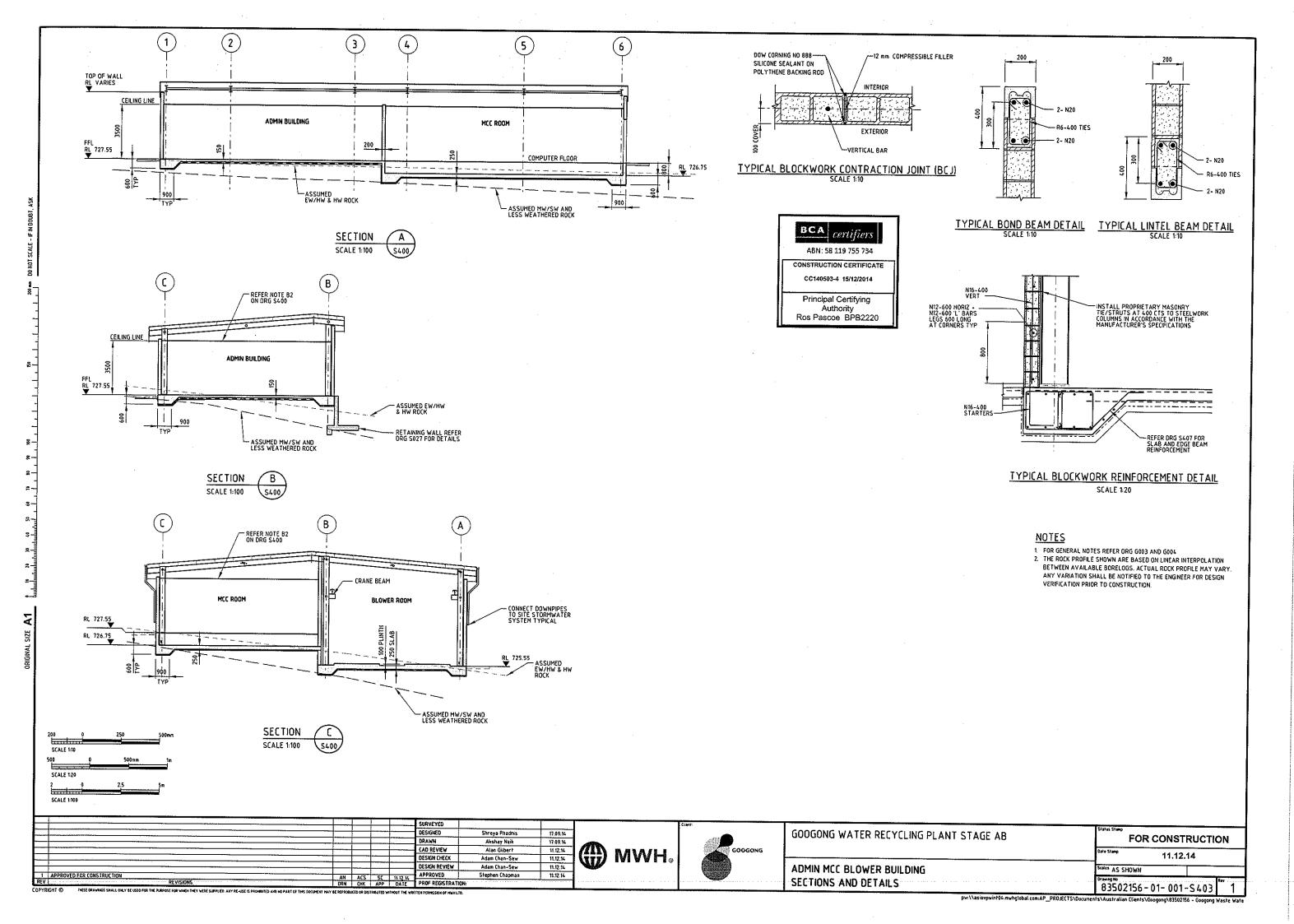
BUILDING A BETTER WORLD

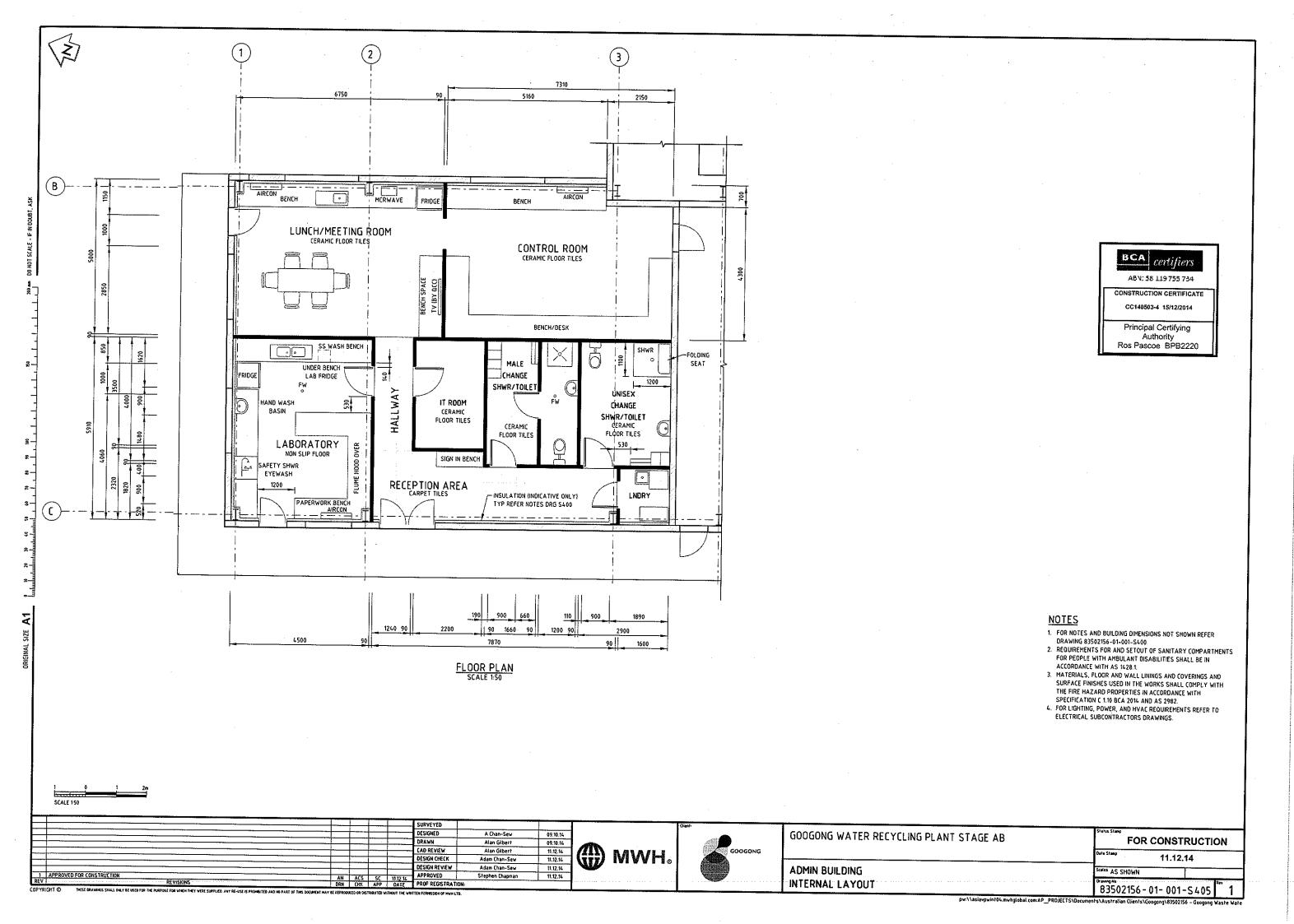
Satyajit Datar BEng, FIEAust, CPEng, NPER & RPEQ Head of Engineering Delivery - Asia Pacific Design

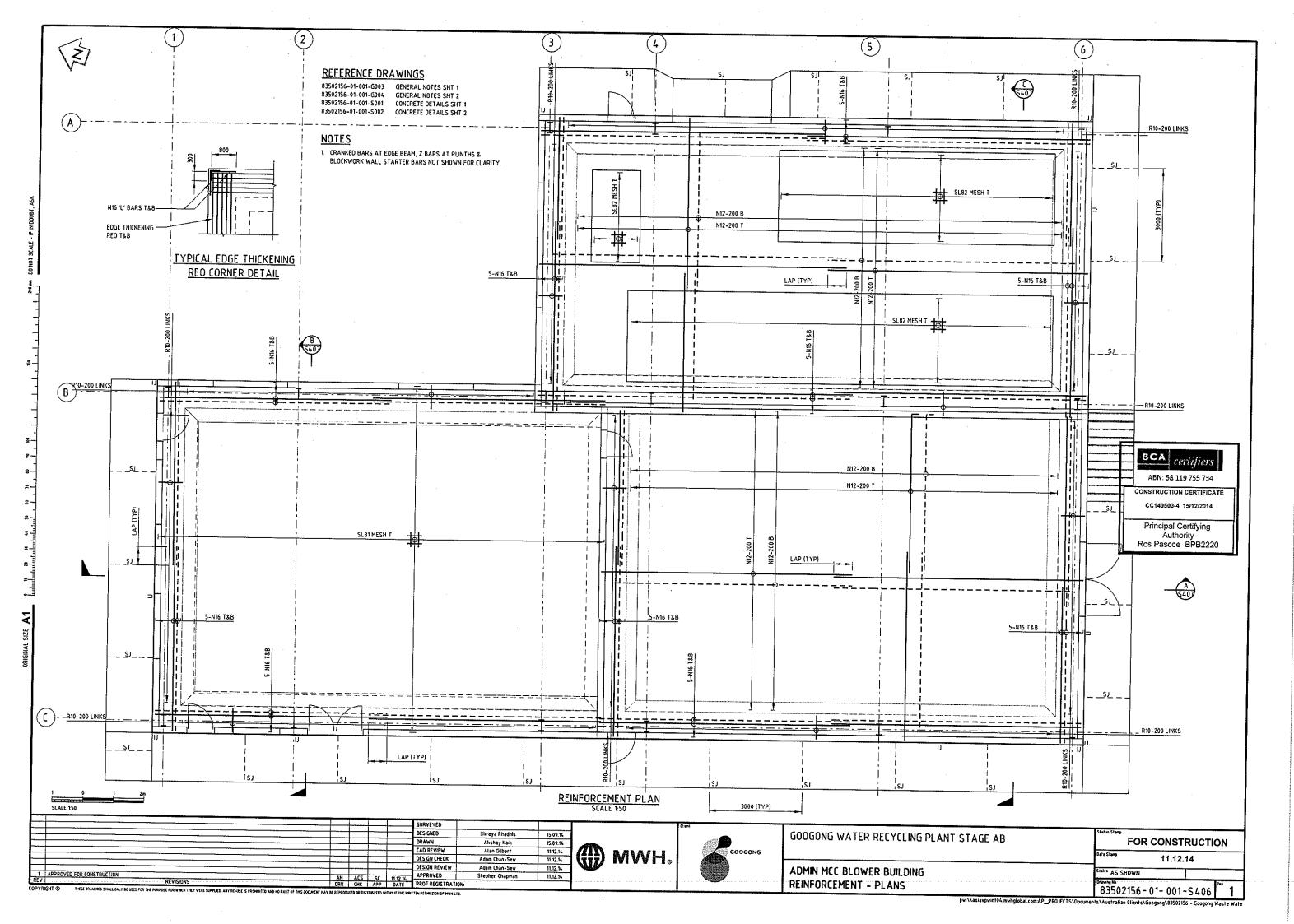


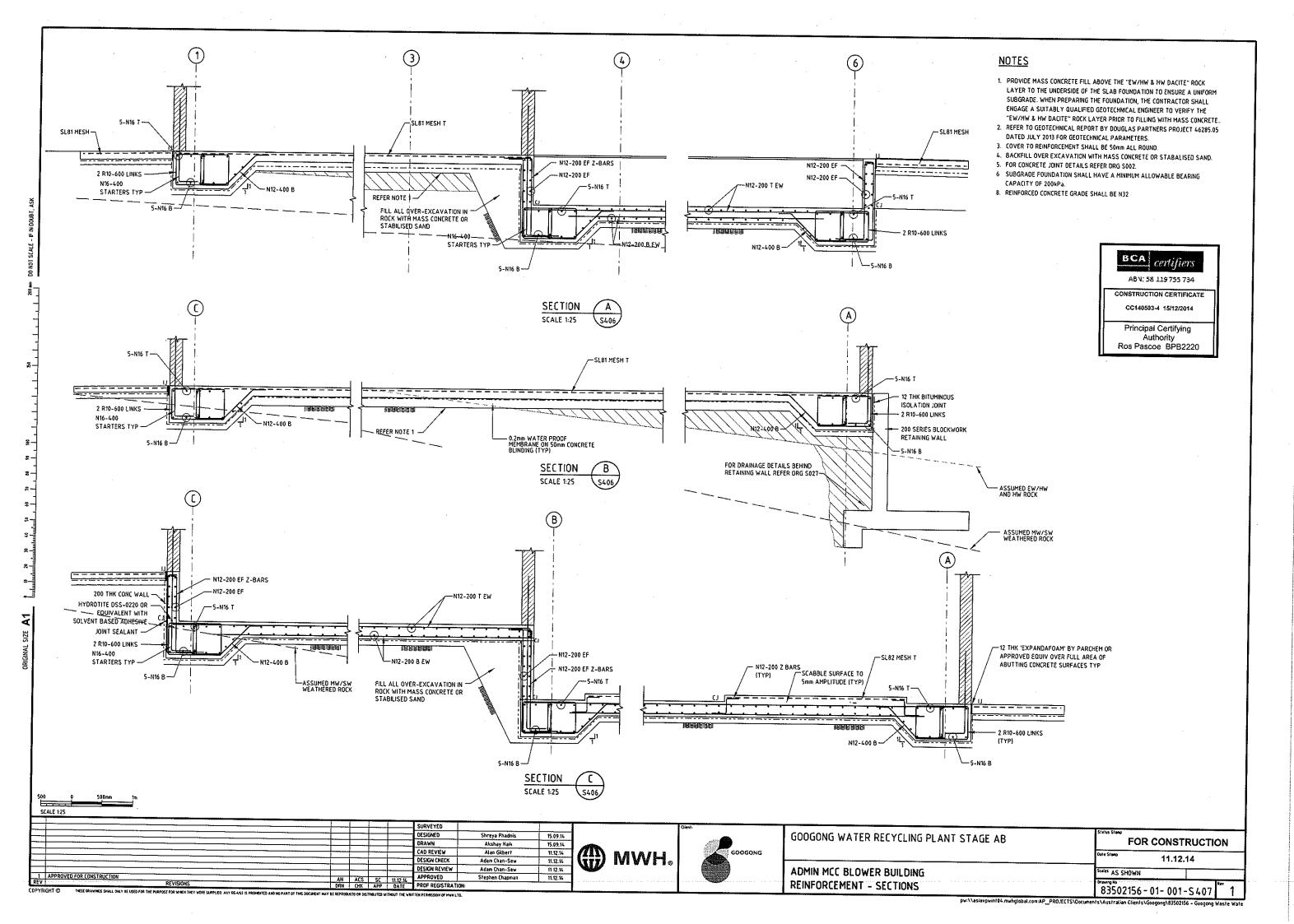


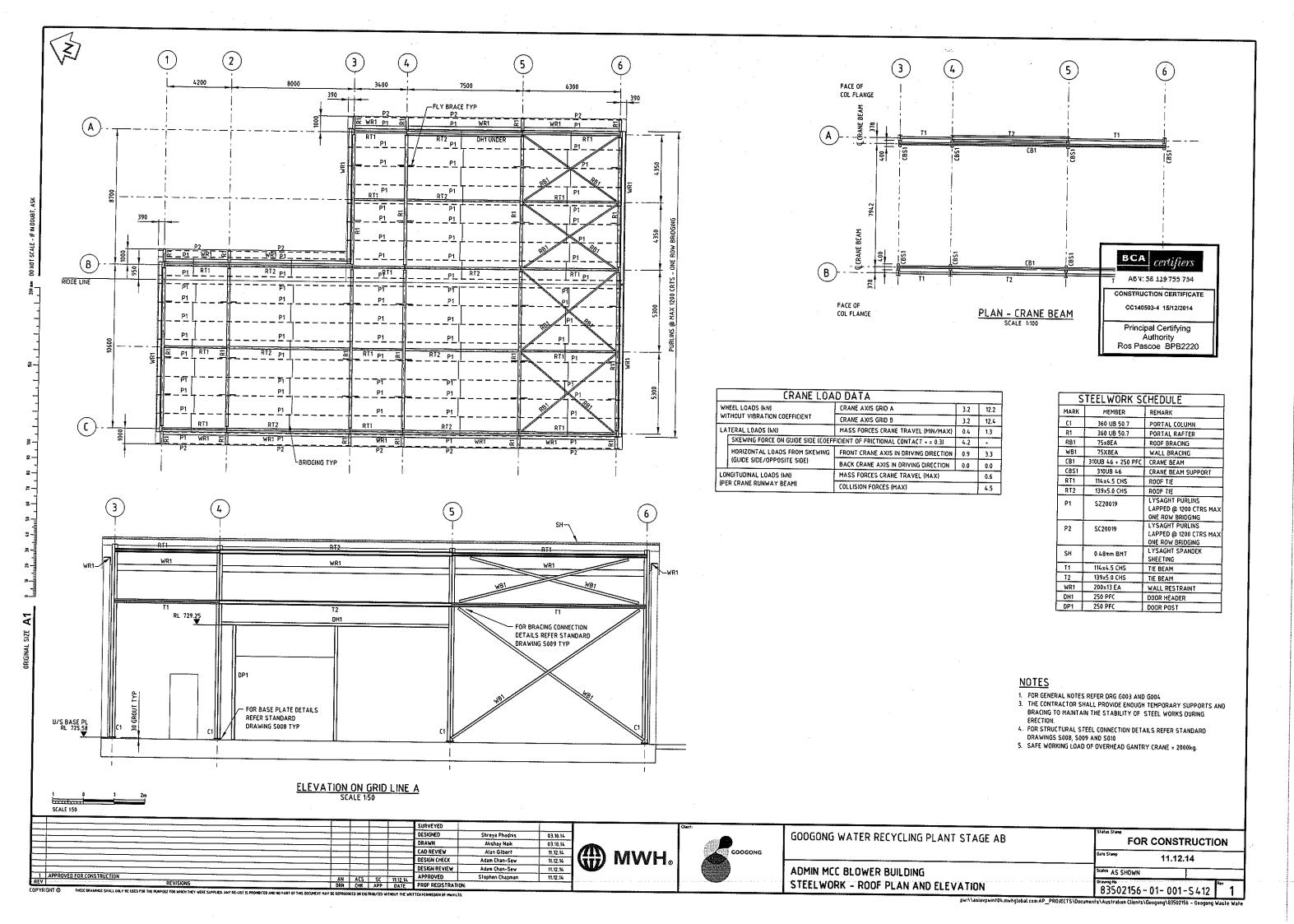


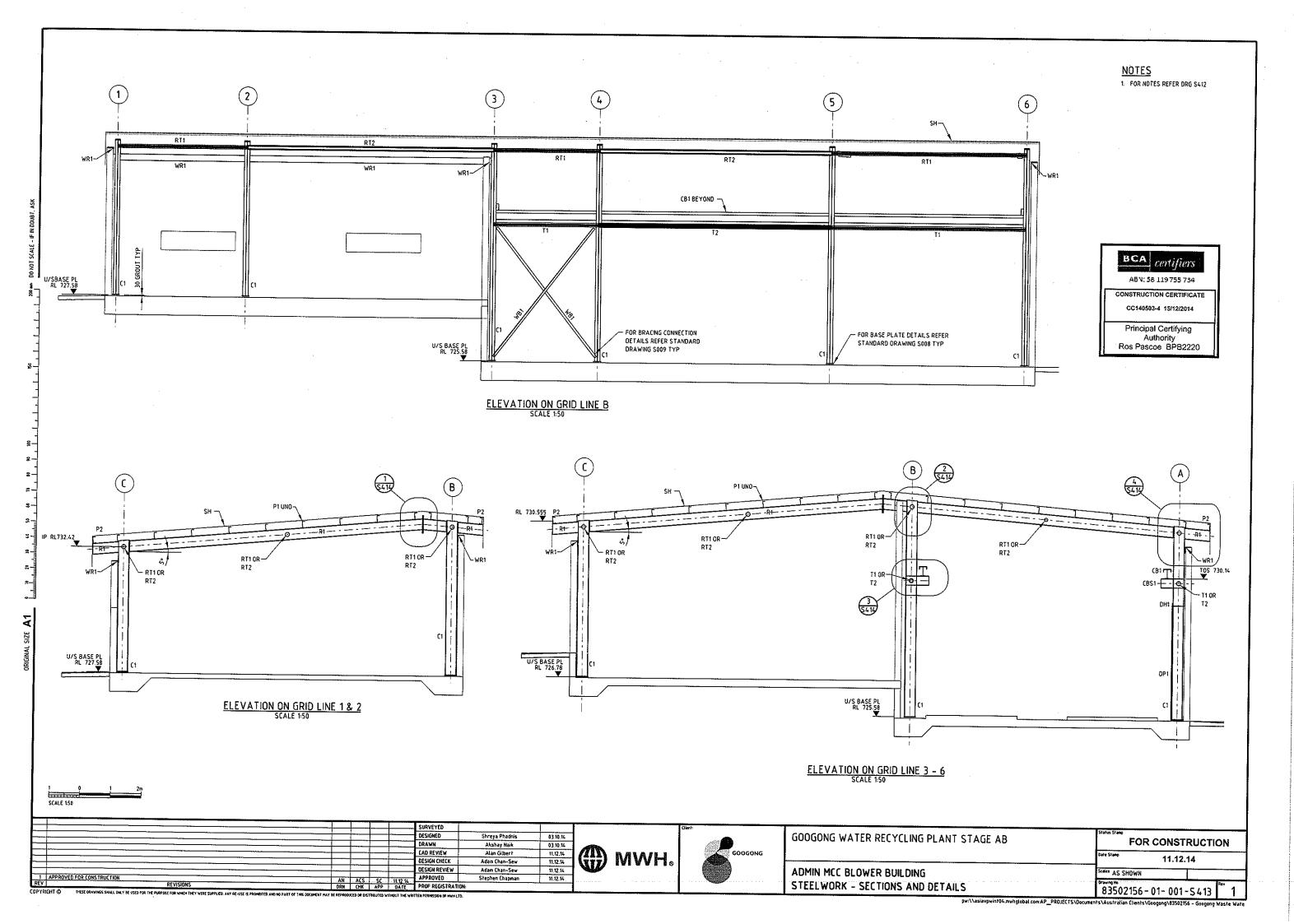


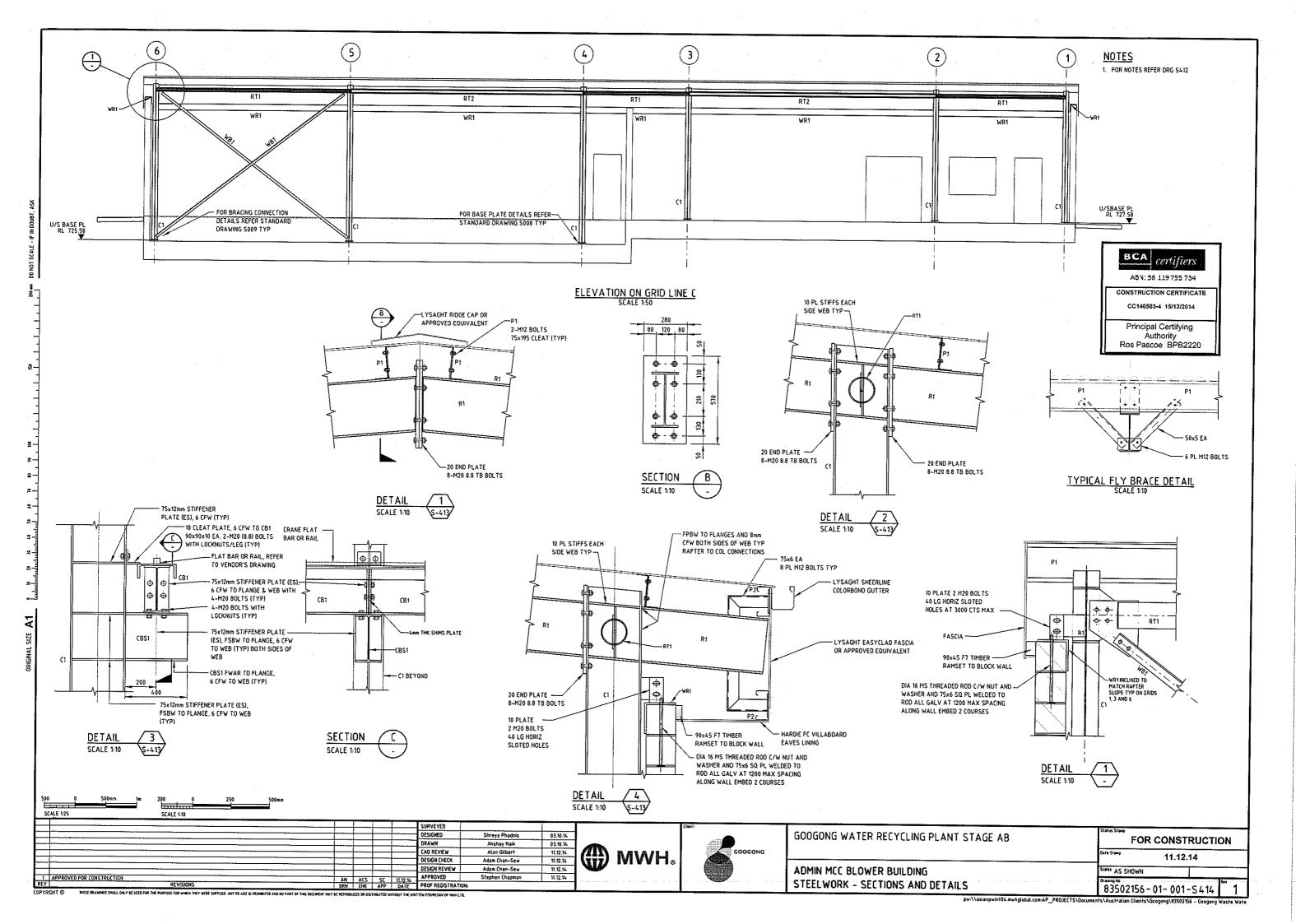












3200 PS302 ACCESS DOOR ROLLER SHUTTER DOOR 19 FUTURE BLOWER BLR2501 BLR2502 BLR2503 CPR8501 DUTY/STANDBY COMPRESSORS CPR8502 UTURE BLOWER UTURE BLOWER VSL8501 AIR RECEIVER HI NOTE 6 BLR5103 BLR5104 RL 725.550 PS301/ 1133 27 1133 A G40# 300-AEA-SS2 AERATION AIR TO BIOREACTORS 350-AEA-SS2 MEMBRANE AIR 300-FA-FRP RL 727.530

PLAN SCALE 1:50

NOTES:

- 1. ROOF REMOVED FOR CLARITY.
- 2. GANTRY CRANE SWL 2 TONNES.
 3. GANTRY CRANE NOT SHOWN IN PLAN VIEW.
- 4. COMPRESSOR AIR PIPEWORK SHALL BE SITE
- S. ALL FLANGES SHALL BE AS4087 PN16 UNLESS OTHERWISE SPECIFIED.
- SLANKED FLANGE ON MANIFOLD FOR CONNECTION OF FUTURE STAGES.
 LAGGING REQUIREMENTS WILL BE

- DETERMINED ON SITE.

 8. AERATION PIPEWORK AND SUPPORTS BY OTHERS



A8N: 58 119 755 734

CONSTRUCTION CERTIFICATE

CC140503-4 15/12/2014

Principal Certifying Authority Ros Pascoe BPB2220

REFERENCE DRAWINGS:

83502156-01-001-G001 COVER SHEET & DRAWING INDEX

83502156-01-001-G404 SECTION SHEET 1

83502156-01-001-G405 SECTION SHEET 2

BLR2501 - AERATION BLOWER (DUTY)

BLR2502 - AERATION BLOWER (ASSIST)

BLR2503 - AERATION BLOWER (STANDBY)

BLR5103 - AEROBIC DIGESTER AERATION BLOWER No.1 (DUTY)

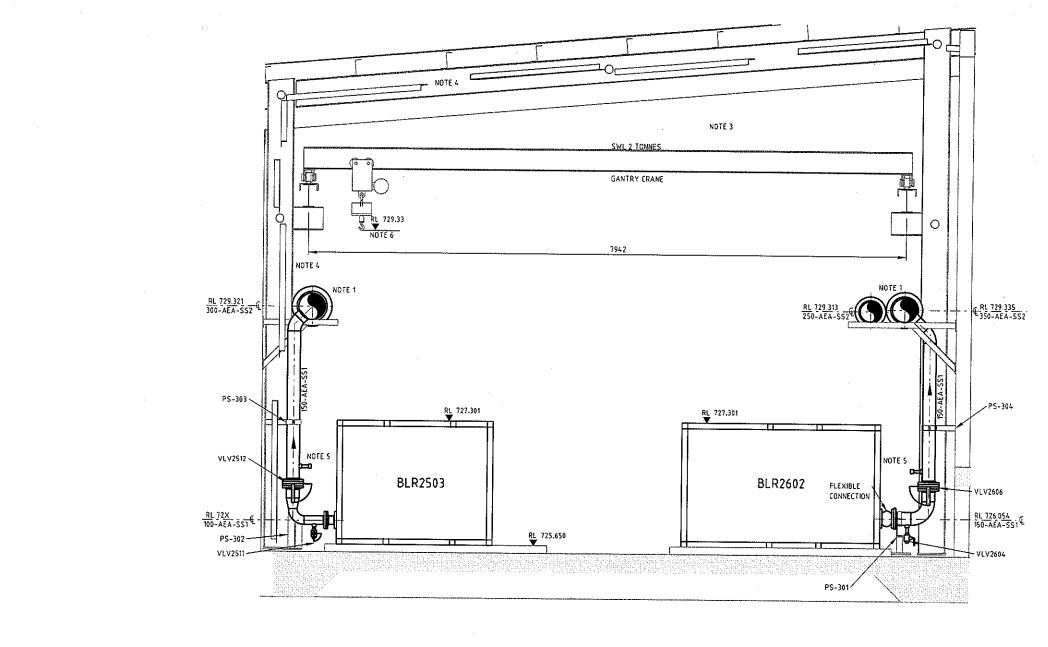
BLR5104 - AEROBIC DIGESTER AERATION BLOWER No.2 (STANDBY)

BLR2601 - MEMBRANE BLOWER (DUTY)

BLR2602 - MEMBRANE BLOWER (STANDBY)

NOT FOR CONSTRUCTION

SURVEYED DESIGNED GOOGONG WATER RECYCLING PLANT STAGE AB **FOR REVIEW** DRAWN CAD REVIEW Terry Sowden 21.10.14 MWH_o DESIGN CHECK 11.12.14 Ran Virdi 21.10.14 DESIGN REVIEW Ran Virdi 21,10.14 BLOWER BUILDING - GENERAL ARRANGEMENT AS SHOWN APPROVED PLAN PROF REGISTRATION 83502156-01-001-G403



500 0

BCA certifiers

ABN: 58 119 755 734

CONSTRUCTION CERTIFICATE

CC140503-4 15/12/2014

Principal Certifying Authority Ros Pascoe BPB2220

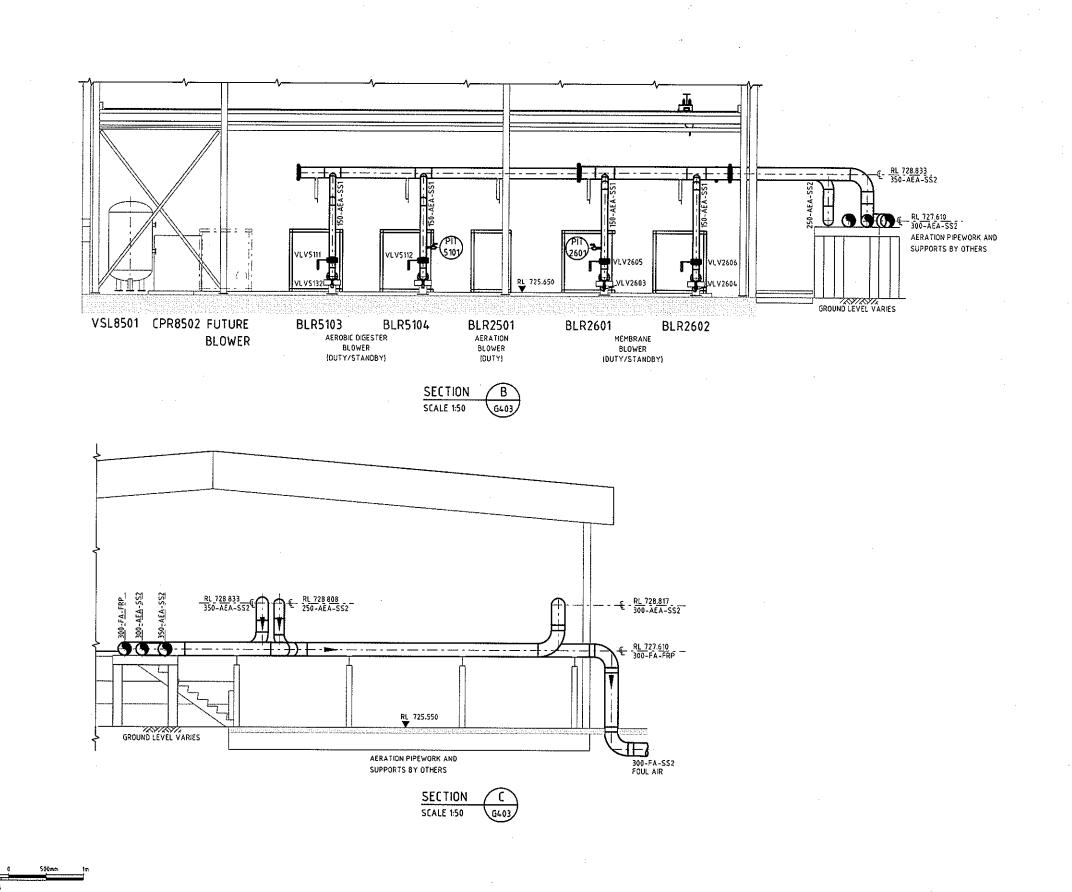
SECTION SCALE 1:25

NOTES:

- AERATION PIPWORK AND SUPPORTS BY OTHERS.
- ALL FLEXIBLE COUPLINGS SHALL BE SUPPLIED C/W TIE RODS.
- GANTRY CRANE SHOWN INDICATIVELY. FOR DETAILS REFER TO VENDOR DRAWINGS.
- REFER TO STRUCTURAL DRAWINGS FOR DETAILS.

 1" BSP WELDED SOCKET BLANKED WITH THREADED PLUG.
- INCLUDES MINIMUM SAFETY DISTANCE IN ACCORDANCE WITH

NOT FOR CONSTRUCTION SURVEYED Designed GOOGONG WATER RECYCLING PLANT STAGE AB FOR REVIEW Harpreet Singh Terry Sowden Ran Virdi 21.10.14 21.10.14 21.10.14 21.10.14 11.12.14 DRAWN MWH₀ CAD REVIEW 11.12.14 DESIGN CHECK BLOWER BUILDING - GENERAL ARRANGEMENT AS SHOWN **SECTION SHEET 1** 83502156~01-001-G404



certifiers

ABN: 58 119 755 784

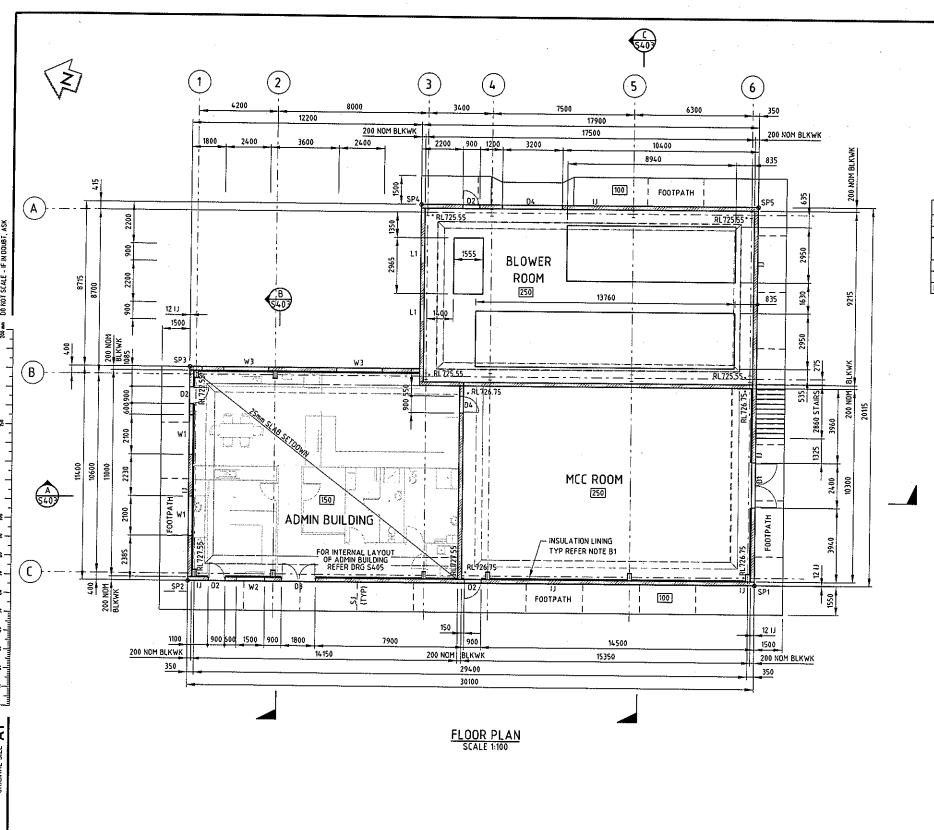
CC140503-4 15/12/2014

CC140503-4 15/12/2014

Principal Certifying Authority Ros Pascoe BPB2220

NOT FOR CONSTRUCTION

SURVEYED DESIGNED GOOGONG WATER RECYCLING PLANT STAGE AB **FOR REVIEW** 10.12.14 11.12.14 11.12.14 11.12.14 11.12.14 DRAWN Arash Keshavarzian MWH_s CAD REVIEW Yerry Sowden Ran Virdi 11.12.14 DESIGN CHECK BLOWER BUILDING - GENERAL ARRANGEMENT DESIGN REVIEW APPROVED **SECTION SHEET 2** 83502156 - 01- 001-G405



SETOUT POINTS

POI	NT	EASTING	NORTHING
SF	1	703625.582	6078260.14
SP	2	703616.032	6078288.68
SP	3	703626.843	6078292.30
ŞP	4	703638.979	6078283.49
SP	5	703644.657	6078266.52

COLOUR SCHEME				
ELEMENT	SPECIFICATION			
ROOFING	COLORBOND COLOUR "JASPER"			
GUTTERS AND DOWNPIPES	COLORBOND COLOUR "LOFT"			
BARGE CAPPING	COLORBOND COLOUR "LOFT"			
EXTERNAL BLOCKWORK	COLORBOND COLOUR "ARAVA"			
DOOR AND DOOR FRAMES	COLORBOND COLOUR "LOFT"			



NOTES

- FOR GENERAL NOTES REFER DRG G003 AND G004
- LIASE WITH PLUMBER TO CONFIRM LOCATION OF ALL SLAB PENETRATIONS PRIOR TO PLACEMENT OF CONCRETE.
- REFER TO STANDARD DRAWING 83502156-01-001-5002 FOR CONCRETE JOINT DETAILS.
- FOR CAST-IN ELECTRICAL CONDUIT DETAILS REFER TO ELECTRICAL SUBCONTRACTORS DRAWINGS. ALL CONDUITS SHALL BE PLACED BENEATH SLAB

BUILDING NOTES

- B1. INSULATION LINING SHALL BE PROVIDED TO THE INTERNAL FACE OF EXTERNAL BLOCKWORK WALLS FOR THE ADMIN BUILDING AND MCC ROOM. INSULATION SHALL BE IN ACCORDANCE WITH AS 4859.1 AND SHALL BE INSTALLED AS REQUIRED BY NSW PART J1 OF BCA 2014, ALL WALLS SHALL ACHEIVE AN INSULATION RATING OF R2.8.
- 82. INSULATION LINING SHALL BE PROVIDED TO THE CEILING AND ROOF IN ADMIN BUILDING AND MCC ROOM. INSULATION SHALL BE IN ACCORDANCE WITH AS 4859.1 AND SHALL BE INSTALLED AS REQUIRED BY NSW PART J1 OF BCA 2014. ROOF AND CEILING SHALL ACHIEVE AN INSULATION RATING OF
- B3. GLAZING SHALL BE IN ACCORDANCE WITH PART J2 8CA 2014.
- B4. FACILITIES FOR ENERGY MONITORING SHALL BE PROVIDED IN ACCORDANCE WITH CLAUSE J8.3 OF BCA 2014. B5. LIGHTING POWER AND CONTROLS SHALL BE INSTALLED IN ACCORDANCE
- WITH PART J6 OF BCA 2014.
- B6. THE AIR-CONDITIONING AND VENTILATION SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH PART 15 OF BCA 2014.
- 87. ALL DOORS SHALL BE 40mm THICK PLY LINED SOLID CORE DOORS.
- B8. ALL EXTERNAL DOORS SHALL BE WATERPROOF QUALITY.
- B9. MASONRY WALL TIES TO BE INSTALLED IN ACCORDANCE WITH THE GENERAL PROJECT SPECIFICATION.
- 810. ANY PENETRATIONS OR GAPS TO THE EXTERIOR OF THE BUILDING NOT NOMINATED ON THE DRAWINGS SHALL BE SEALED WITH A NON-CORROSIVE MESH WITH APERTURE SIZE OF 2mm OR LESS IN ACCORDANCE WITH AS
- B19. EACH LOUVRE SHALL BE FITTED WITH A 2mm SQUARE APERTURE 0.5mm NOMINAL WIRE THICKNESS EMBER PROOF WIRE MESH TO THE INTERIOR FACE IN ACCORDANCE WITH AS 3959.
- B12. INSTALL ROOFING BLANKET UNDER SHEETING PRIOR TO FIXING. ROOFING BLANKET SHALL BE SUPPORTED ON WIRE MESH.
 B13. COMPUTER FLOOR SHALL BE DESIGNED FOR 1250kg/ SQ m UDL AND 4.5kN
- CONCENTRATED LOAD WITHOUT EXCEEDING A DEFLECTION OF 2mm.

LEGEND

- IJ ISOLATION JOINT
- \$J SHRINKAGE JOINT
- INDICATES SLAB THICKNESS
- INSULATION LINING

Large Treasure

SURVEYED DRAWN 17.09.14 CAD REVIEW Alan Gilbert 11.12.14 DESIGN CHECK Adam Chan-Sew 11.12.14 Adam Chan-Sew 11.12.14 APPROVED FOR CONSTRUCTION AN ACS SC 11.12.14 APPROVED

ORN CHX APP DATE PROF REGISTRATION REVISIONS





GOOGONG WATER RECYCLING PLANT STAGE AB	FOR CONSTRUCTION
	Date Stanp 11.12.14
ADMIN MCC BLOWER BUILDING	Scales AS SHOWN
GENERAL ARRANGEMENT PLAN	83502156 - 01- 001-5400 Rev 1