Ros Read

From: Ros Read <ros@urbanperspectives.com.au>
Sent: Wednesday, 4 November 2015 11:37 AM
To: ros@urbanperspectives.com.au
Subject: FW: SSM - DA 088-05-08
Attachments: ATT00001.htm; Marina Approval.pdf; ATT00002.htm; SYM08_2.pdf; ATT00003.htm; SYM08_1.pdf; ATT00004.htm

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From: Jack Borozan [mailto:jborozan@cadenceaust.com]
Sent: Thursday, 29 May 2014 12:03 PM
To: Justin James
Cc: Paul Faulkner
Subject: FW: SSM - DA 088-05-08

Justin,

With respect to your recent discussions with Paul about the 2008 SHFA Wetland Area Development Consent, please find the email below from Susannah. We also note that in addition to the demolition of the fuel facility, SSM has also removed the triangle section of the wharf to accomodate the proposed pontoon arrangement.

Best regards

Jack Borozan
Project Manager - Cadence Australia Pty Ltd
Ph: 02 9557 8866
Fx: 02 9557 8966
M: 0401 608 848
www.cadenceaust.com

From: Susannah Webb [Susannah.Webb@rms.nsw.gov.au]
Sent: Thursday, 29 May 2014 10:41 AM
To: Paul Faulkner
Cc: Jack Borozan
Subject: RE: SSM - DA 088-05-08

Hi Paul

I have attached a copy of the marina approval which was granted by SHFA. You will note that the description of works includes the removal of the fuel facility at the marina. These works have clearly been undertaken and there is documentation on TRIM regarding the contract etc to undertake these works. I would advise these works would have activated the consent. I have not investigated the other works listed in the description of works, as the demolition of the fuel facility, in my professional opinion would be sufficient to establish commencement.

Let me know if you wish to discuss further.

Regards

Susannah Webb
Senior Manager
Property Strategy & Planning
PH: 9563 8697 Mobile: 0428 640487

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CITY PLAN SERVICES

CONSTRUCTION CERTIFICATE NO. 132137

Issued under Section 81A(5) and Part 4A Sections 109C of the Environmental Planning and Assessment Act 1979

APPLICANT

Name of person having benefit of the development consent:	**Justin James – Sydney Superyacht Marina Pty Ltd**
Address:	**2 Maritime Court, Rozelle Bay NSW 2039**
Contact Details:	**Phone: 0298180609 Fax: 0298180622**

DEVELOPMENT CONSENT

Consent Authority/Local Government Area:	**Minister for Planning**
Development Consent No:	**MP09_0165**
Date of Development Consent:	**26/11/12**

PROPOSAL

Address of Development:	**Sydney Super Yacht Marina, James Craig Road, Rozelle Bay, Sydney**
Lot & DP No:	**Part Lot 32 in the Rozelle bay Draft Plan of Subdivisions of Lots 2, 3 and 4 of DP 873379, Lot 100 DP 1017367 & Lot 1 DP 1049334**
Building Code of Australia Classification:	**Class N/A**
Type of Construction:	**Type**
Scope of building works covered by this Notice:	**Early Works - Piling.**
Value of Construction Certificate (Incl GST):	
Plans and Specifications approved:	**Schedule 1**
Fire Safety Schedule:	**Schedule 2**
Critical Stage Inspections:	**See attached Notice**
Exclusions:	**Nil**
Conditions (Clause 187 or 188 of the Environmental Planning & Assessment Regulation 2000):	**Nil**
Date of the Application for Construction Certificate:	**26/09/13**
Date Application Received:	**26/09/13**

PROJECT BUILDING SURVEYOR	Please contact **Brendan Bennett** for any inquiries
CERTIFYING AUTHORITY	**Brendan Bennett** for and on behalf of **City Plan Services Pty Ltd**
ACCREDITATION NUMBER	**BPB 0027**

That I, Brendan Bennett, as the certifying authority, certify that the work if completed in accordance with the plans and specifications identified in Schedule 1 (with such modifications verified by the certifying authority as may be shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation 2000 as referred to in section 81A(5) of the Environmental Planning and Assessment Act 1979.

DATED THIS **27th day of September 2013**

Brendan Bennett
Managing Director

NB: Prior to the commencement of work S81A(2)(b)(i) and (ii) and (b2)(i) and (ii) and (iii) and (c) of the Environment Planning and Assessment Act 1979 must be satisfied.

N:\CPCertification\CPC2013\13-2137 Sydney Super Yacht Marina, James Craig Road, Rozelle Bay\CC 132137\CC 132137.doc

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SCHEDULE 1
APPROVED PLANS AND SPECIFICATIONS

1. Endorsed Structural plans prepared by Hyder Consulting Pty Ltd

Plan Title	Drawing No	Revision	Date
General Notes Sheet 1	S001	A	23/09/13
General Notes Sheet 2	S002	A	23/09/13
Pile Layout	S003	A	23/09/13

2. Endorsed Architectural plans prepared by Scott Carver Pty Ltd

Plan Title	Drawing No	Revision	Date
Site Plan	AD-002	1	13/09/13

3. Other documents relied upon

Title	Prepared By	Reference	Date
Construction Certificate Application	Sydney Superyacht Marina Pty Ltd	-	26/09/13
Long Service Levy Receipt	Long Service Corporation	147020	18/09/13
Letter of Compliance – BCA	Adamus Associates	-	10/06/13
Statement of Commitments - Environmental Sustainability - Energy Efficiency - Water Conservation	Adamus Associates	-	10/06/13
Statement of Compliance - External Lighting	Adamus Associates	-	10/06/13
Statement of Commitments - Fire Hydrant	Adamus Associates	-	10/06/13
Statement of Commitments - Stormwater Maintenance	Adamus Associates	-	10/06/13
Statement of Commitments - Water & Sewer Services	Adamus Associates	-	10/06/13
Statement of Commitments - Water Quality Objectives	Adamus Associates	-	10/06/13
Letter re: Stormwater Strategy	AT&L	13-131 L002	21/06/13
Building Population	Scott Carver Pty Ltd	-	11/06/13
Design Certificate - Architectural	Scott Carver Pty Ltd	-	14/06/13
Design Certificate - Landscape Design	Scott Carver Pty Ltd	-	14/06/13
Design Intent Certification - Fit-out of Food Premises	Scott Carver Pty Ltd	-	14/06/13
Design Intent Certification - Architectural	Scott Carver Pty Ltd	-	14/06/13
Design Intent Certification - Parking Spaces	Scott Carver Pty Ltd	-	14/06/13
Design Intent Certification - Furniture & Fittings of public areas	Scott Carver Pty Ltd	-	14/06/13
Design Intent Certification - Electrical	Adamus Associates	-	10/06/13

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Title	Prepared By	Reference	Date
Design Intent Certificate - Hydraulic	Adamus Associates	-	10/06/13
Design Intent Certificate - Lift Services	Adamus Associates	-	10/06/13
Design Intent Certificate - Mechanical	Adamus Associates	-	10/06/13
Design Certificate - Structural	Hyder Consulting Pty Ltd	-	20/09/13
Letter re: Car Park Modification	Urban Perspectives	-	11/06/13
Review of External Glazing	Acoustic Logic	20130257.1	28/05/13
Submission of revised Sections & Elevations (Condition B2 & B6)	Planning & Infrastructure	MP09_0165	14/08/13
Site Subdivision Plan	NSW Maritime	Version 5	10/08/10
Preconstruction Dilapidation Survey	Hyder Consulting Pty Ltd	AA005805	19/07/13
Accessibility Report	Accessibility Solutions (NSW) Pty Ltd	-	10/07/13
Section J Report	Aminga Holdings Pty Ltd	Rev A	02/07/13
Environmental Management Plan	Ganellen Pty Ltd	Rev 00	18/06/13
Dial Before You Dig Plans - Optus	Optus	28261297	11/03/13
Dial Before You Dig Plans – Ausgrid	Ausgrid	28261295	11/03/13
Dial Before You Dig Plans – Jemena	Jemena	LE3CB	-
Dial Before You Dig Plans – Jemena	Jemena	LE3DA	-
Dial Before You Dig Plans – Sydney Water	Sydney Water	28261299	11/03/13
Dial Before You Dig Plans – Telstra	Telstra	-	-
Environmental, Construction & Site Management Plan	Ganellen	Rev B	28/10/13

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COMPLETION STATEMENT

Issued at the request of the Principal Contractor for verification of a stage completion.

PRINCIPAL CONTRACTOR

Name:	**Nick Bouziotis - Ganellen**
Address:	**30 Montague Street, Balmain, NSW 2041**
Contact Details:	**Phone: (02) 9555 2444 Fax: (02) 9555 5600**

APPLICANT

Name of person having benefit of the development consent:	**Justin James – Sydney Superyacht Marina Pty Ltd**
Address:	**2 Maritime Court, Rozelle Bay NSW 2039**
Contact Details:	**Phone: (02) 9818 0609 Fax: (02) 9818 0622**

RELEVANT CONSENTS

Consent Authority/Local Government Area:	**Minister for Planning**
Development Consent No:	**MP09_0165**
Date of Development Consent:	**26/11/12**
Construction Certificate No:	**CC 132137**
Date of Construction Certificate:	**18/11/13**

PROPOSAL

Address of Development:	**Sydney Super Yacht Marina, James Craig Road, Rozelle Bay, Sydney**
Lot & DP No:	**Part Lot 32 in the Rozelle bay Draft Plan of Subdivisions of Lots 2, 3 and 4 of DP 873379, Lot 100 DP 1017367 & Lot 1 DP 1049334**
Building Code of Australia Classification:	**N/A**
Type of Construction:	**N/A**
Scope of building works covered by this Notice:	**Stage 1 - Piling**
Attachments:	**Schedule 1**
Exclusions:	**Remainder of works pursuant to MP09_0165**

PRINCIPAL CERTIFYING AUTHORITY — **Brendan Bennett** for and on behalf of **City Plan Services Pty Ltd**

ACCREDITATION NUMBER — **BPB 0027**

That I, Brendan Bennett, as the certifying authority, certify that:

- *A current Development Consent is in force for the building;*
- *A Construction Certificate has been issued with respect to the plans and specifications for the building;*
- *The building works have been completed in accordance with the approved staged construction certificate and subject to the relied upon documentation provided in Schedule 1;*

DETERMINATION

Approval dated this **4th day of February 2014**

Brendan Bennett
Managing Director

LEVEL 1 364 KENT ST, SYDNEY NSW 2000 | TEL +61 2 8270 3500 | FAX +61 2 8270 3501 | WWW.CITYPLAN.COM.AU
CITY PLAN SERVICES P/L ABN 30 075 223 353 CITY PLAN HERITAGE P/L ABN 46 103 185 413
CITY PLAN STRATEGY & DEVELOPMENT P/L ABN 58 133 501 774 CITY PLAN URBAN DESIGN P/L ABN 41 107 317 206

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SCHEDULE 1

1. Documents relied upon

Title	Prepared by	Reference	Date
Design & Construction of Foundation Piles	Vibropile (Aust) Pty Ltd	-	03/02/14
Pile Layout - As Built Plan	A. James	C1320/C1396	24/01/14
Inspection Report	Hyder Consulting Pty Ltd	IR-001	24/01/14
Inspection Report	City Plan Services	132137	31/01/14

VIBROPILE

EXPERIENCE IS THE BEST FOUNDATION

3 February 2014

Ganellen
30 Montague Street
Balmain NSW 2041

ATTENTION: Nick Bouziotis

CERTIFICATION

Sydney Super Yacht Marina Early Works
Design and Construction of Foundation Piles

This is to certify that Vibro-pile (Aust.) Pty Ltd:

- Designed the foundation piles for the above project in accordance with Hyder Drawing AA005805 S003 issue B. The piled solution has been designed in accordance with AS2159-2009 "Piling – Design and Installation" and AS3600-2009 "Concrete Structures".
- Have constructed the foundation piles in accordance with the procedures designated in AS2159-2009 and outlined in Vibro-pile (Aust.) Pty Ltd Project Quality Plan.
- Have checked the construction records of the piles and confirm the above to be correct. All concrete compressive strength test results received to date have achieved sufficient strength to indicate that they will achieve the required design strength by 56 days. Note that 28 and 56 day results are yet to be received and this certification is subject to final results.

Yours sincerely,

Aron Frost
Northern Region Manager
Vibro-pile (Aust.) Pty Ltd

Patrick Gorman
Projects Engineer
Vibro-pile (Aust.) Pty Ltd

Encl: Pile as-built details
Marked up plan showing pile location, numbering and as-built pile positions
Concrete compressive strength summary

CLIENT: Ganellen

PROJECT: Superyachts, Rozelle

Project No.: 2900

AS-BUILT DETAILS

Foundation Piles

As-built Details																	
Pile No.	Date installed	Dia. (mm)	Conc. strength (MPa)	Ground level (RL)	Drill depth (m)	Estimated	Variance	Pile toe (RL)	Socket Length (m)	Top of Concrete (RL)	Top of Steel (RL)	Cage					
												Bars	Dia. OD (mm)	Length (m)	Spiral	Proj. (m)	
1	21/01/2014	600	50	2.1	29.5	34.0	-4.5	-27.4	0.5	wsl	2.70	5N20	400	9.0	N10-300	0.5	
2	21/01/2014	600	50	2.1	29.2	30.0	-0.8	-27.1	0.7	wsl	2.24	10N24	400	9.0	N10-300	0.5	
3	22/01/2014	600	50	2.1	28.6	30.0	-1.4	-26.5	0.8	wsl	2.25	10N24	400	9.0	N10-300	0.5	
4	23/01/2014	600	50	2.0	27.8	30.0	-2.2	-25.8	0.6	wsl	2.30	10N24	400	9.0	N10-300	0.5	
5	23/01/2014	600	50	2.0	26.0	23.0	3.0	-24.0	0.7	wsl	2.30	5N20	400	9.0	N10-300	0.5	
6	23/01/2014	600	50	2.0	20.8	23.0	-2.2	-18.8	0.6	wsl	2.30	5N20	400	9.0	N10-300	0.5	
7	23/01/2014	600	50	2.1	22.9	23.0	-0.1	-20.8	0.8	wsl	2.30	5N20	400	9.0	N10-300	0.5	
8	24/01/2014	600	50	2.3	18.0	15.0	3.0	-15.8	0.8	wsl	2.25	5N20	400	9.0	N10-300	0.5	
9	24/01/2014	600	50	2.3	14.3	15.0	-0.7	-12.1	0.8	wsl	2.25	5N20	400	9.0	N10-300	0.5	
10	22/01/2014	600	50	2.1	29.4	34.0	-4.6	-27.3	0.8	wsl	2.10	5N20	400	9.0	N10-300	0.5	
11	22/01/2014	600	50	2.0	28.8	30.0	-1.2	-26.8	0.6	wsl	2.40	10N24	400	9.0	N10-300	0.5	
12	22/01/2014	600	50	2.0	28.5	30.0	-1.5	-26.5	0.8	wsl	2.40	10N24	400	9.0	N10-300	0.5	
13	23/01/2014	600	50	2.1	28.2	30.0	-1.8	-26.1	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
14	23/01/2014	600	50	2.0	27.2	23.0	4.2	-25.2	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
15	22/01/2014	600	50	2.0	22.9	23.0	-0.1	-20.9	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
16	22/01/2014	600	50	2.1	23.5	23.0	0.5	-21.4	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
17	17/01/2014	600	50	2.1	16.7	15.0	1.7	-14.6	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
18	20/01/2014	600	50	2.2	12.7	15.0	-2.3	-10.5	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
19	21/01/2014	600	50	1.9	29.1	34.0	-4.9	-27.2	0.6	wsl	2.25	5N20	400	9.0	N10-300	0.5	
20	21/01/2014	600	50	1.9	28.5	30.0	-1.5	-26.6	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
21	21/01/2014	600	50	1.9	28.3	30.0	-1.7	-26.4	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
22	20/01/2014	600	50	1.9	28.2	30.0	-1.8	-26.3	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
23	17/01/2014	600	50	1.9	26.5	23.0	3.5	-24.6	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
24	17/01/2014	600	50	1.9	23.7	23.0	0.7	-21.8	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
25	17/01/2014	600	50	2.0	22.2	23.0	-0.8	-20.2	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
26	17/01/2014	600	50	2.0	17.7	15.0	2.7	-15.7	0.5	wsl	2.40	5N20	400	9.0	N10-300	0.5	
27	20/01/2014	600	50	2.2	11.7	15.0	-3.3	-9.5	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	

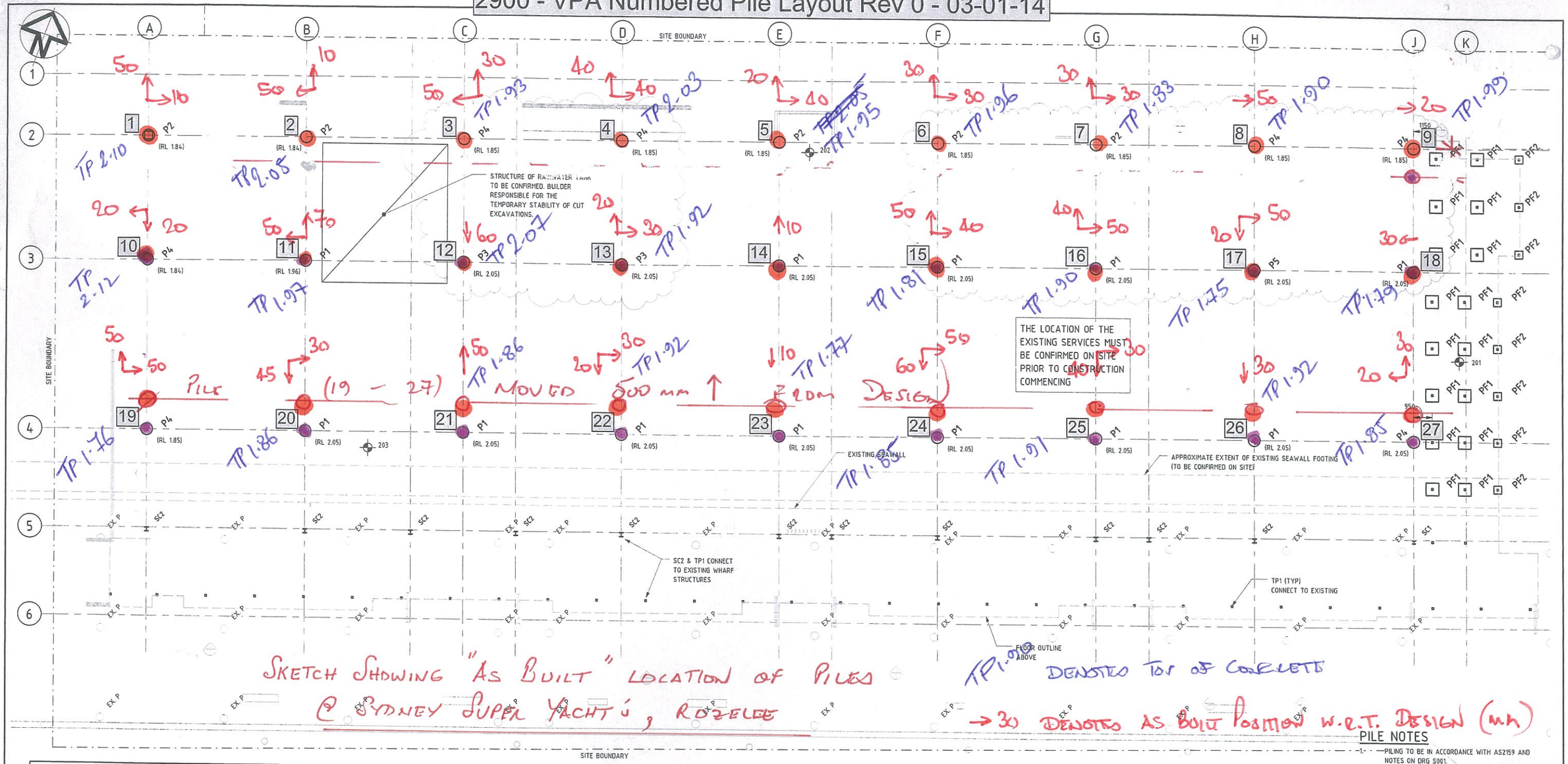
CLIENT:GANELLEN **f'c SUMMARY**

PROJECT:SUPER YACHTS RC

PROJECT NO:2900

Date	Design f'c	Actual f'c (MPa)					Comments
	(MPa)	7 day	28 day	28 day	56day	56day	
17-Jan-14	50	27.0					
18-Jan-14	50	35.5					
20-Jan-14	50	33.5					
21-Jan-14	50	31.0					
21-Jan-14	50	34.5					
22-Jan-14							
23-Jan-14							
24-Jan-14							

2900 - VPA Numbered Pile Layout Rev 0 - 03-01-14



SKETCH SHOWING "AS BUILT" LOCATION OF PILES @ SYDNEY SUPER YACHT'S, ROZELLE

TP1.07 DENOTES TOP OF CORELLETT

→30 DENOTES AS BUILT POSITION W.R.T. DESIGN (mm)

PILE SCHEDULE				
TYPE	DIA. (mm)	Socket Length into 3000kPa Bedrock	VERTICAL WORKING LOAD	HORIZONTAL WORKING LOAD (IN ALL DIRECTIONS)
P1	600	1700mm	1800kN	45kN
P2	600	900mm	1300kN	33kN
P3	600	2100mm	2000kN	50kN
P4	600	1600mm	1700kN	43kN
P5	600	2500mm	2200kN	55kN

PAD FOOTING SCHEDULE		
TYPE	SIZE (L x W x D) (mm)	REINFORCEMENT
PF1	650 x 650 x 300	N12-200 T&B EW
PF2	400 x 400 x 300	N12-200 T&B EW

PILE LAYOUT

1 : 100

PILE CONCRETE STRENGTH f'c=50MPa

PILE CONCRETE COVER 75mm

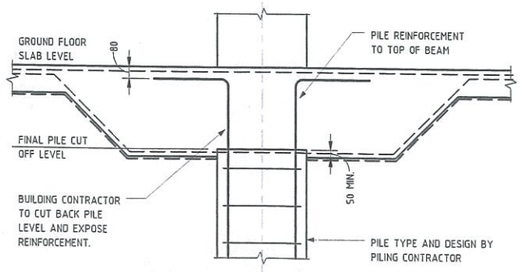
REFER TO GEOTECHNICAL REPORT FOR THE DEPTH TO UNDERLYING BEDROCK.

EX.P - DENOTES EXISTING PILE DESIGNED BY OTHERS

⊕ - DENOTES BOREHOLE LOCATION AS PER GEOTECHNICAL REPORT BY JK GEOTECHNICS DATED 22/4/2013 REPORT No.26482SYrpt

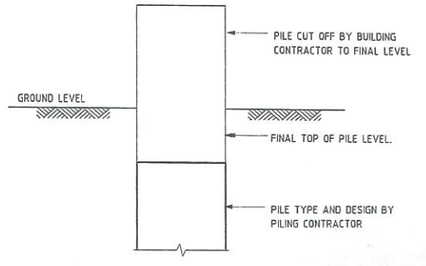
(RL X.X) - DENOTES PILE CUT OFF LEVEL

- DENOTES MINIMUM 1.5% REINFORCEMENT FOR THE TOP 6000mm



TYPICAL PILE CONNECTION DETAIL

1 : 20



PRELIMINARY PILE CUT OFF DETAIL

1 : 20

PILE NOTES

1. PILING TO BE IN ACCORDANCE WITH AS2159 AND NOTES ON DRG S001.
2. THE SUBCONTRACTOR SHALL DESIGN THE PILES WHICH WHEN INSTALLED PROPOERLY WILL CARRY THE LOADS SHOWN ON THE DRAWINGS.
3. THE NUMBER OF PILES AND THE PILE SIZE AND TYPE MAY BE VARIED FROM THOSE ON THE DRAWINGS. REVISED ARRANGEMENTS OF PILES ETC, MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PILING.
4. FOR TESTING OF PILES REFER TO PILING NOTE ON DRG S001.
5. ALL WORKING LOADS INCLUDE 50kN DRAG DOWN FORCES.
6. ALL PILE CUT OFF LEVELS TO BE CONFIRMED.
7. WORKING LOADS SHOWN IN THE PILE SCHEDULE ARE UNFACTORED.
8. HORIZONTAL LOAD SHALL BE APPLIED TO THE PILE HEAD.
9. THE PILING SHOWN ON THIS DRAWING IS TO BE CARRIED OUT BY THE PILING CONTRACTOR. THE BUILDING CONTRACTOR SHALL CUT BACK THE PILES FROM THE PRELIMINARY PILE CUT OFF LEVEL AND EXPOSE THE REINFORCEMENT.

Issue	Description	Date
B	ISSUED FOR CONSTRUCTION	10.12.13
A	ISSUED FOR CONSTRUCTION	23.09.13

'00mm on Original

REF: C1320/C1396.

DATE OF SURVEY: 22 & 24 JANUARY 2014

A. JAMES

Client: SYDNEY SUPERYACHT MARINA PTY LTD

Status: CONSTRUCTION

Scales	1:100	Current Issue Signatures	
		Drawn GAM	
Original Size	A1	Designed FL	
Height Datum	DATUM	Checked JM	
Grid	Grid	Approved JM	

Filename: C:\Users\fmaz933\Documents\SMS\-AA005805-ASR12-A_fmaz933.rvt

Project: SYDNEY SUPERYACHT MARINA - STAGE 1

Title: PILE LAYOUT

Hyder

HYDER CONSULTING PTY LTD
ABN 76 104 485 289
Level 5, 141 Walker Street
North Sydney NSW 2060
Australia
Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com

Drawing No.	Project No.	Issue
S003	AA005805	B

Date Plotted: 10/12/2013 5:17:55 PM

INSPECTION REPORT

Hyder Consulting

TO: GANELLEN

ATTN: NICK BOUZIOTIS

REPORT No. IR-001

PAGE 1 OF 1

DATE 24/1/14

JOB No.	PROJECT:
KA005805	SYDNEY SUPERYACHT - PILE REINFORCEMENT

Site inspection on 17/1/14 to inspect the pile reinforcement ~~for~~ only.

All the ~~it~~ reinforcement details are acceptable, as per Vibropile design package, during the time of inspection.

ANY INSTRUCTIONS ON THIS REPORT DOES NOT CONSTITUTE APPROVAL OF A VARIATION

BY: ..... RECEIVED: .....

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INSPECTION REPORT

This inspection report is a record of a certified stage inspection or any other inspection carried out, because it was required by the Principal Certifying Authority, in accordance with Clause 162B of the Environmental Planning & Assessment Regulation 2000.

CC No.	:	132137	
DA No.	:	MP09_0165	
PCA	:	Brendan Bennett, BPB0027	
Site Address	:	Sydney Super Yacht Marina, James Craig Road, Rozelle Bay, Sydney	
Requested by	:	Justin James	
Contact No.	:	0418 222 508	**Contact email:**
Inspection Type	:	Stage 1 - Completion	
Date Inspected	:	31/01/14	**Time Requested:**

RESULT OF INSPECTION

Satisfactory	☑	**No re-inspection required**
Satisfactory subject to actions	☐	**No re-inspection required**
Unsatisfactory/actions required	☐	**Re-inspection required** **Yes** ☐ **No** ☐

Works completed generally in accordance with the consent.

Please provide:

- Engineer's Certification
- Site Survey

Signature : 

Inspected by	:	Brendan Bennett
Accreditation No.	:	BPB 0027
Date	:	31/01/14

LEVEL 1 364 KENT ST, SYDNEY NSW 2000 | TEL +61 2 8270 3500 | FAX +61 2 8270 3501 | WWW.CITYPLAN.COM.AU
CITY PLAN SERVICES P/L ABN 30 075 223 353
CITY PLAN STRATEGY & DEVELOPMENT P/L ABN 58 133 501 774
CITY PLAN HERITAGE P/L ABN 46 103 185 413
CITY PLAN URBAN DESIGN P/L ABN 41 107 317 206

Hyder Consulting Pty Ltd
Level 5, 141 Walker Street
Locked Bag 6503
North Sydney NSW 2060
Australia
Tel: +61 2 8907 9000
Fax: +61 2 8907 9001
www.hyderconsulting.com

6th May 2015

Sydney Superyacht Marina
PO Box 436
Rozelle NSW 2039
Attention: Mr Justin James

AA005805

Sydney Super Yachts Marina - Stage 1 Structural Certification

Dear Justin,

We confirm our structural design for the Sydney Superyacht Marina – Stage 1 Western Building incorporates the relocation of Piles 19 to 27.

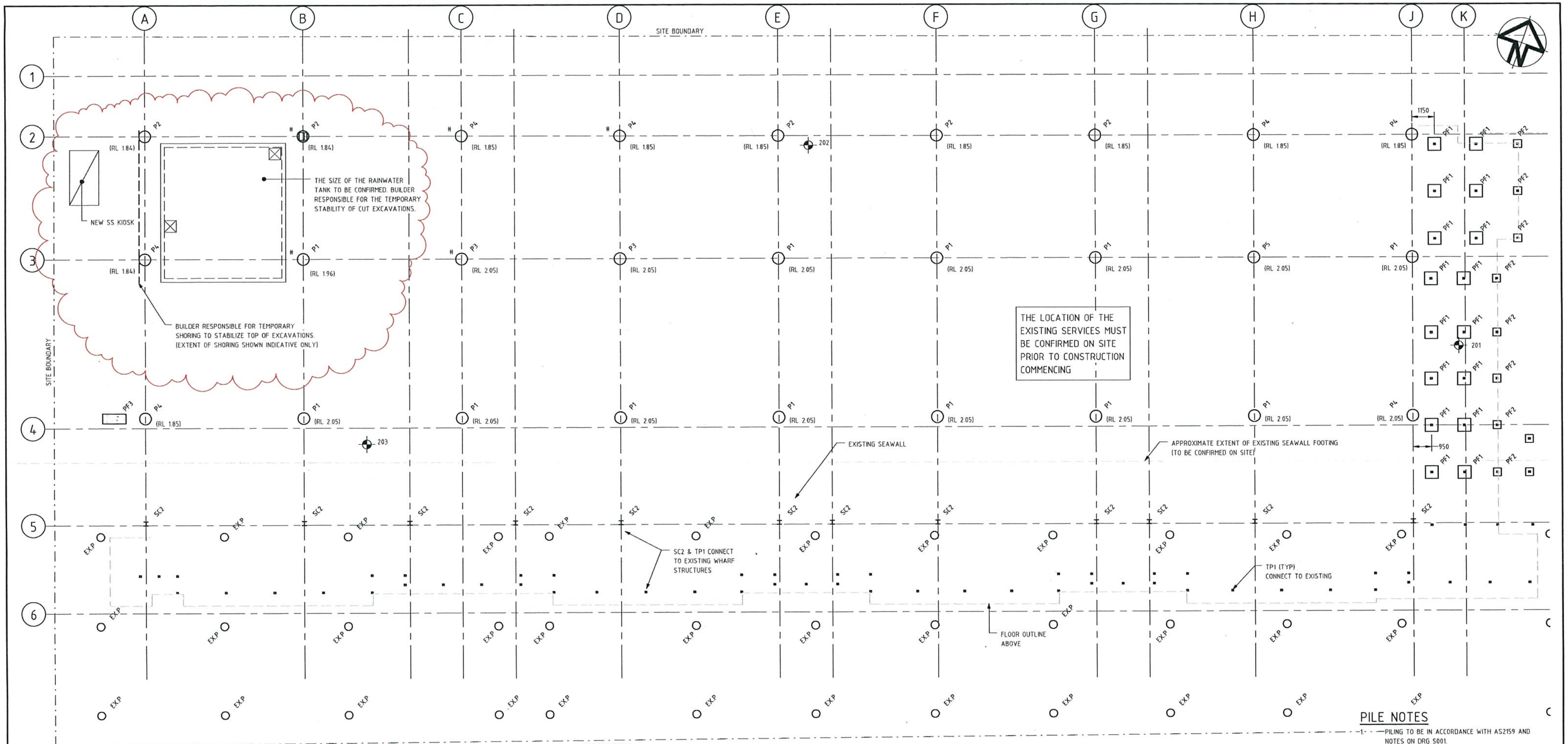
For your information, please find attached the following:

1. Hyder Structural Drawing AA005805 S003 Pile Layout and S007 Ground Floor Slab Plan. These drawings include the relocation of Piles 19 to 27 north of Grid 4. Our design is based upon no additional loads being placed on the existing sea retaining wall.
2. Vibropile Final Certification for the Design and Construction of the Foundation Piles dated 14th August 2014. In the attachments to this certification, there is a marked up plan showing pile location, numbering and as-built pile positions. This includes the relocation of Piles 19 to 27 north of Grid 4.
3. Hyder Structural design certification letter dated 19th September 2011 issued to obtain Construction Certificate. At the completion of the project, a revised structural design and inspection certificate will be issued referencing our Issued of Construction drawings. This will included the relocation of Piles 19 to 27 north of Grid 4.

Yours sincerely

John Merrick
Technical Director
02 8907 8210

Enc
1. Vibropile Final Certification dated 14th August 2015
2. Hyder Pile Layout Drawing AA005805 S003 Rev D and AA005805 S007
3. Hyder Structural Design Certificate for Construction Certificate dated 14/09/2011



PILE SCHEDULE				
TYPE	DIA. (mm)	Socket Length into 3000kPa Bedrock	VERTICAL WORKING LOAD	HORIZONTAL WORKING LOAD (IN ALL DIRECTIONS)
P1	600	1700mm	1800kN	45kN
P2	600	900mm	1300kN	33kN
P3	600	2100mm	2000kN	50kN
P4	600	1600mm	1700kN	43kN
P5	600	2500mm	2200kN	55kN

PAD FOOTING SCHEDULE		
TYPE	SIZE (L x W x D) (mm)	REINFORCEMENT
PF1	650 x 650 x 300	N12-200 T&B EW
PF2	400 x 400 x 300	N12-200 T&B EW
PF3	1200 x 500 x 300	N12-200 T&B EW

NOTE: ALL PAD FOOTINGS MIN. 100kPa ALLOWABLE BEARING CAPCITY)

PILE LAYOUT

1 : 100

PILE CONCRETE STRENGTH f'c=50MPa

PILE CONCRETE COVER 75mm

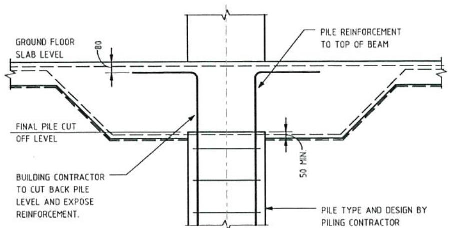
REFER TO GEOTECHNICAL REPORT FOR THE DEPTH TO UNDERLYING BEDROCK.

EXP - DENOTES EXISTING PILE DESIGNED BY OTHERS

- DENOTES BOREHOLE LOCATION AS PER GEOTECHNICAL REPORT BY JK GEOTECHNICS DATED 22/4/2013 REPORT No.26482SYrpt

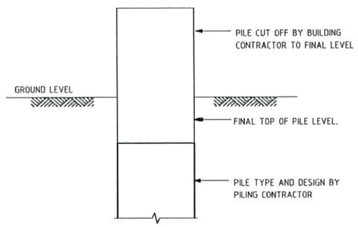
(RL X.X) - DENOTES PILE CUT OFF LEVEL

- DENOTES MINIMUM 1.5% REINFORCEMENT FOR THE TOP 6000mm



TYPICAL PILE CONNECTION DETAIL

1 : 20



PRELIMINARY PILE CUT OFF DETAIL

1 : 20

PILE NOTES

1. PILING TO BE IN ACCORDANCE WITH AS2159 AND NOTES ON DRG S001.
2. THE SUBCONTRACTOR SHALL DESIGN THE PILES WHICH WHEN INSTALLED PROPOERLY WILL CARRY THE LOADS SHOWN ON THE DRAWINGS.
3. THE NUMBER OF PILES AND THE PILE SIZE AND TYPE MAY BE VARIED FROM THOSE ON THE DRAWINGS. REVISED ARRANGEMENTS OF PILES ETC, MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PILING.
4. FOR TESTING OF PILES REFER TO PILING NOTE ON DRG S001.
5. ALL WORKING LOADS INCLUDE 50kN DRAG DOWN FORCES.
6. ALL PILE CUT OFF LEVELS TO BE CONFIRMED.
7. WORKING LOADS SHOWN IN THE PILE SCHEDULE ARE UNFACTORED.
8. HORIZONTAL LOAD SHALL BE APPLIED TO THE PILE HEAD.
9. THE PILING SHOWN ON THIS DRAWING IS TO BE CARRIED OUT BY THE PILING CONTRACTOR. THE BUILDING CONTRACTOR SHALL CUT BACK THE PILES FROM THE PRELIMINARY PILE CUT OFF LEVEL AND EXPOSE THE REINFORCEMENT.

Issue	Description	Date
D	RE-ISSUED FOR CONSTRUCTION	15-10-14
C	ISSUED FOR CONSTRUCTION	12-09-14
B	ISSUED FOR CONSTRUCTION	10-12-13
A	ISSUED FOR CONSTRUCTION	23-09-13

100mm on Original

Client: SYDNEY SUPERYACHT MARINA PTY LTD

Status: CONSTRUCTION

Scale	As indicated	Current Issue Signatures	
		Drawn	GAM
Original Size	A1	Designed	FL
Height Datum	DATUM	Checked	JM
Grid	Grid	Approved	JM

Filename: C:\Users\ahaz1029\Documents\SMI1-AA005805-NSRN-140912_ahaz1029.rvt

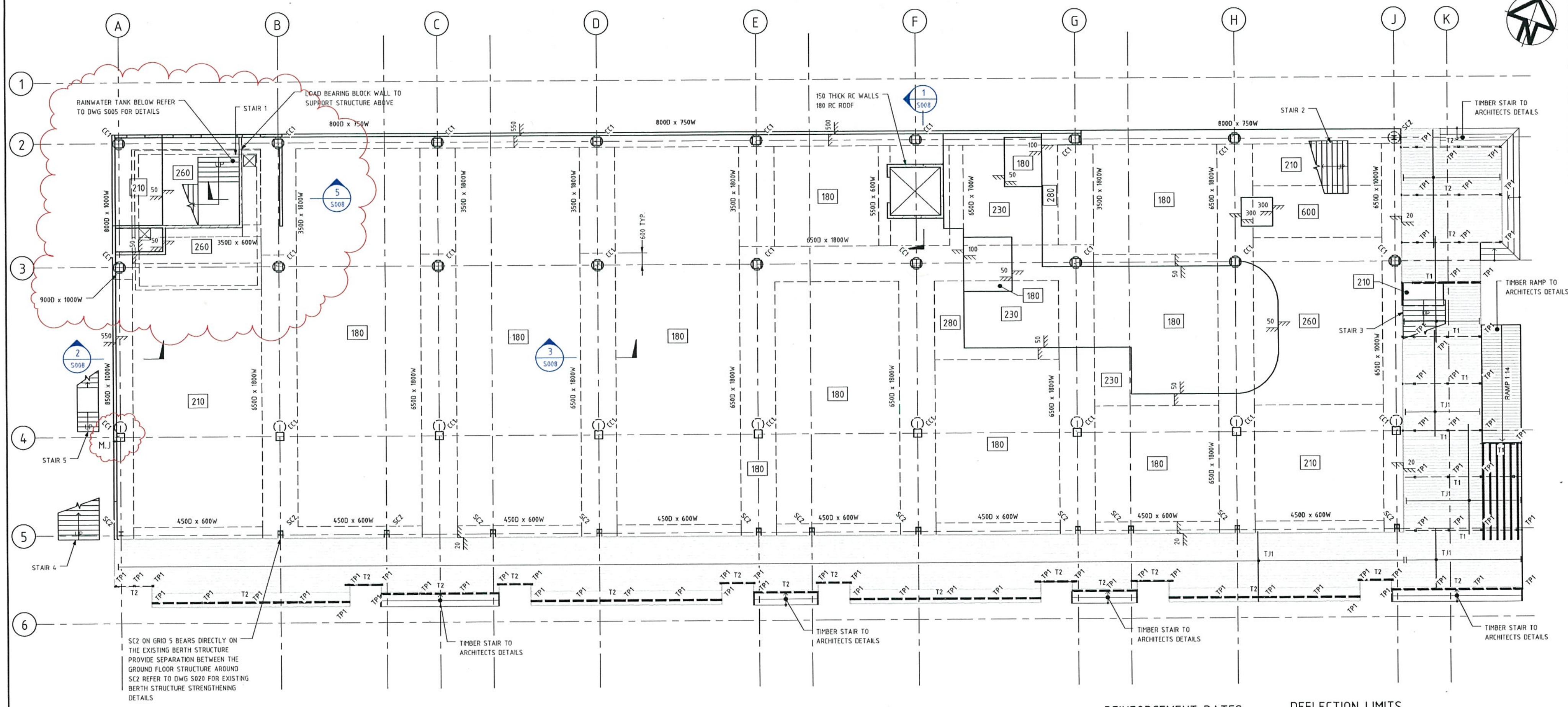
Project: SYDNEY SUPERYACHT MARINA - STAGE 1

Title: PILE LAYOUT

Hyder
HYDER CONSULTING PTY LTD
Level 5, 141 Walker Street
North Sydney NSW 2060
Australia
Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com

Drawing No.	Project No.	Issue
S003	AA005805	D

Date Plotted: 16/10/2014 3:57:11 PM



GROUND FLOOR SLAB PLAN

1 : 100

CONCRETE NOTES

ALL SLABS AS NOTED ON PLAN

CONCRETE STRENGTH: F'c = 40 MPa AT 28 DAYS, U.N.O.

ALL FALLS TO ARCHITECTS DETAILS

SLAB DESIGN NOTES

EXPOSURE CLASSIFICATION
: A1 INTERNAL
: B2 EXTERNAL
: A2 SURFACES IN CONTACT WITH THE GROUND

FIRE RATING: 2 HOURS

CONCRETE STRENGTHS

UNLESS NOTED OTHERWISE

COLUMNS - 40 MPa AT 28 DAYS

GENERAL NOTES

1. ALL PRESTRESSING STRANDS TO BE 12.7mm.
2. ALL RATES ARE INDICATIVE AND MAY BE SUBJECT TO CHANGE PENDING FURTHER DESIGN CO-ORDINATION.
3. WATERPROOF & TANKING TO ARCHITECTS SPECIFICATIONS.
4. BUILDER RESPONSIBLE FOR THE TEMPORARY STABILITY OF CUT EXCAVATIONS.
5. REFER TO STANDARD WALL STIFFENER DETAILS IN BLOCKWORK.
6. FOR LIGHTWEIGHT WALLS REFER TO ARCHITECTS SPECIFICATION FOR FRAMING AND FIRE RATING.
7. ALL HOBS & FALLS TO ARCHITECTS DETAILS.
8. REFER TO ARCHITECTS DRAWINGS FOR EXTENT OF FIRE-RATED WALL ALONG GRID A.
9. THE D & C CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION BETWEEN STRUCTURE AND SUB-FLOOR HYDRAULICS.
10. BASLUSTRADE DESGIN TO ARCHITECTS DETAILS
11. M.J - DENOTES 15mm WIDE MOVMENT JOINT

REINFORCEMENT RATES

FOR COSTING PURPOSES ONLY

P.T. SLABS - 40 kg/m3
P.T. BANDS - 45 kg/m3
R.C. LIFT PIT - 160 kg/m3
STAIRS - 110 kg/m3
COLUMNS - 240 kg/m3

SLABS
BANDS

POST TENSIONING RATES

SLABS - 5.0 kg/m2
BANDS - 12.0 kg/m2

SLABS
BANDS

DEFLECTION LIMITS

TOTAL DEFLECTION - LESSER OF SPAN/250 OR 30mm (MAX)
INCREMENTAL DEFLECTION - LESSER OF SPAN/500 OR 20mm (MAX)

CANTILEVER
TOTAL DEFLECTION - LESSER OF SPAN/150 OR 20mm (MAX)
INCREMENTAL DEFLECTION - LESSER OF SPAN/250 OR 15mm (MAX)

STEEL COLUMN SCHEDULE

TAG	SIZE	REMARK(S)
SC1	150UC30.0	
SC2	200UC59.5	
SC3	200PFC	
SC4	180UB22.2	
SC5	100x50x5.0 RHS	
SC6	89x89x10.0 SHS	

TIMBER FRAMING SCHEDULE

TAG	SIZE	REMARK(S)
T1	250 x 50 F8	TIMBER BEARER
T2	300 x 50 F8	TIMBER BEARER
TJ1	200 x 50 F8	TIMBER JOISTS AT 450 CRS

TIMBER COLUMN SCHEDULE

TAG	SIZE	REMARK(S)
TP1	90 x 90 F8	TIMBER POST

Issue	Description	Date
4	RE-ISSUED FOR TENDER	15-10-14
3	ISSUED FOR TENDER	12-09-14
2	ISSUED FOR TENDER ONLY	12-06-13
1	PRELIMINARY ISSUE	27-05-13

10mm on Original

Client: SYDNEY SUPERYACHT MARINA PTY LTD

Status: TENDER
NOT TO BE USED FOR CONSTRUCTION

Scale	As indicated	Current Issue Signatures	
		Drawn Author	
Original Size	A1	Designed Designer	
Height Datum	DATUM	Checked Checker	
Grid	Grid	Approved Approver	

Filename: C:\Users\shaz1029\Documents\SMH-AA005805-NDRW-140002_shaz1029.rvt

Project: SYDNEY SUPERYACHT MARINA - STAGE 1

Title: GROUND FLOOR SLAB PLAN

Hyder
HYDER CONSULTING PTY LTD
Level 5, 141 Walker Street
North Sydney NSW 2060
Australia
Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com

Drawing No. S007 — Project No. AA005805 — Issue 4

Date Plotted: 16/10/2014 3:57:14 PM

VIBROPILE
EXPERIENCE IS THE BEST FOUNDATION

14th August 2014

Ganellen
30 Montague Street
Balmain NSW 2041

ATTENTION: Nick Bouziotis

FINAL CERTIFICATION rev1

Sydney Super Yachts Marina Early Works
Design and Construction of Foundation Piles

This is to certify that Vibro-pile (Aust.) Pty Ltd:

- Designed the foundation piles for the above project in accordance with Hyder Drawing AA005805 S003 rev B. The piled solution has been designed in accordance with AS2159-2009 "Piling – Design and Installation" and AS3600-2009 "Concrete Structures".
- In addition all piles can accommodate a working of up to 3,000 kN.
- Have constructed the foundation piles in accordance with the procedures designated in AS2159-2009 and outlined in Vibro-pile (Aust.) Pty Ltd Project Quality Plan.
- Have checked the construction records of the piles and confirm the above to be correct. All concrete compressive strength test results have achieved the required strength in accordance with the design.

Yours sincerely,

pp RDSmith

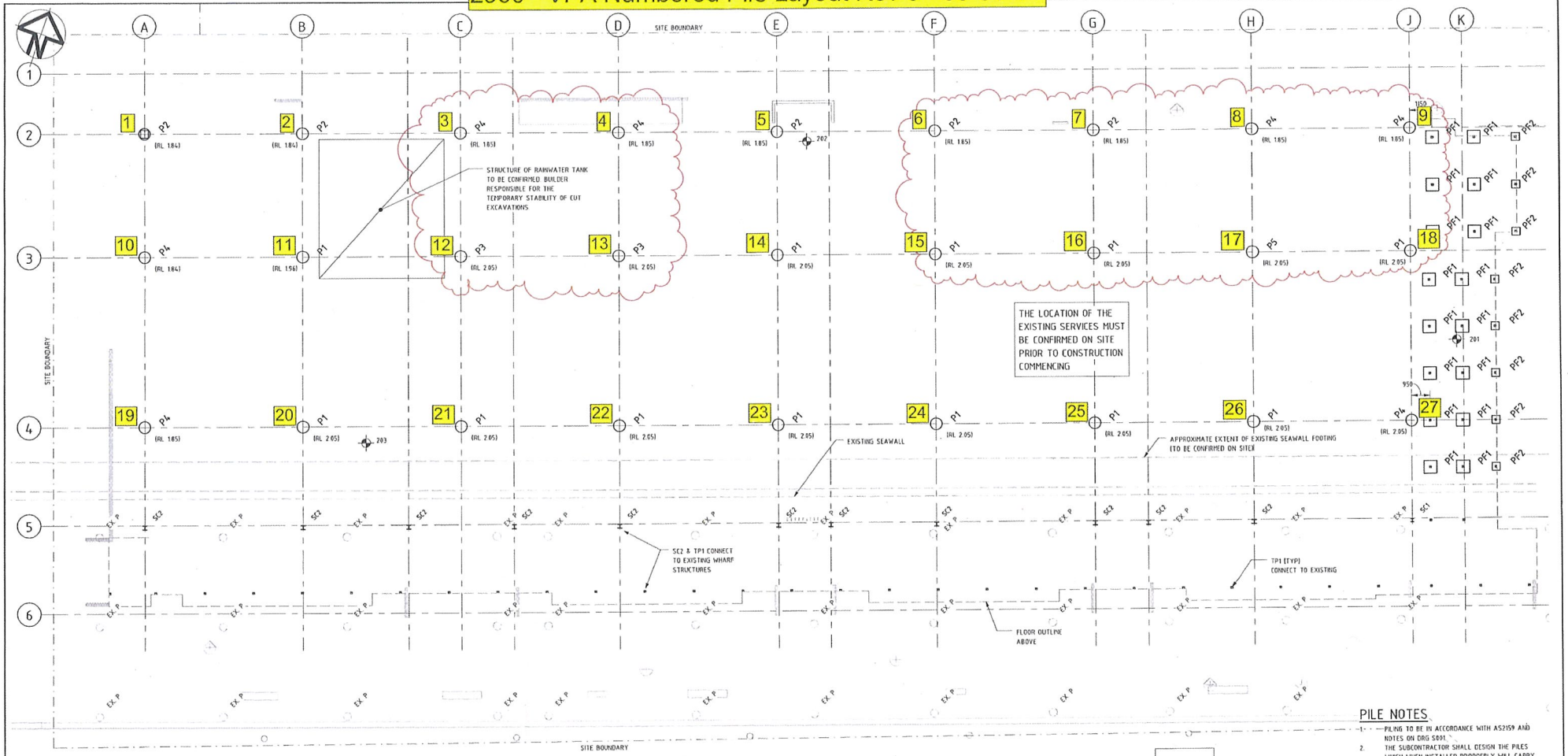
Aron Frost
Northern Region Manager
Vibro-pile (Aust.) Pty Ltd

RDSmith

Richard Smith
Design & Estimating Manager
Vibro-pile (Aust.) Pty Ltd

Encl: Pile as-built details
Marked up plan showing pile location, numbering and as-built pile positions
Concrete compressive strength summary

2900 - VPA Numbered Pile Layout Rev 0 - 03-01-14



PILE SCHEDULE				
TYPE	DIA. (mm)	Socket Length into 3000kPa Bedrock	VERTICAL WORKING LOAD	HORIZONTAL WORKING LOAD (IN ALL DIRECTIONS)
P1	600	1700mm	1800kN	45kN
P2	600	900mm	1300kN	33kN
P3	600	2100mm	2000kN	50kN
P4	600	1600mm	1700kN	43kN
P5	600	2500mm	2200kN	55kN

PAD FOOTING SCHEDULE		
TYPE	SIZE (L x W x D) (mm)	REINFORCEMENT
PF1	650 x 650 x 300	N12-200 T&B EW
PF2	400 x 400 x 300	N12-200 T&B EW

PILE LAYOUT

1 : 100

PILE CONCRETE STRENGTH f'c=50MPa

PILE CONCRETE COVER 75mm

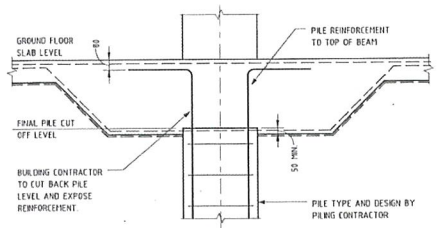
REFER TO GEOTECHNICAL REPORT FOR THE DEPTH TO UNDERLYING BEDROCK

EX.P - DENOTES EXISTING PILE DESIGNED BY OTHERS

- DENOTES BOREHOLE LOCATION AS PER GEOTECHNICAL REPORT BY JK GEOTECHNICS DATED 22/4/2013 REPORT No 26482SYrpt

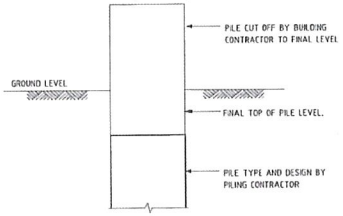
(RL X.X) - DENOTES PILE CUT OFF LEVEL

H - DENOTES MINIMUM 15% REINFORCEMENT FOR THE TOP 6000mm



TYPICAL PILE CONNECTION DETAIL

1 : 20



PRELIMINARY PILE CUT OFF DETAIL

1 : 20

PILE NOTES

1. PILING TO BE IN ACCORDANCE WITH AS2159 AND NOTES ON DRG S001.
2. THE SUBCONTRACTOR SHALL DESIGN THE PILES WHICH WHEN INSTALLED PROPERLY WILL CARRY THE LOADS SHOWN ON THE DRAWINGS.
3. THE NUMBER OF PILES AND THE PILE SIZE AND TYPE MAY BE VARIED FROM THOSE ON THE DRAWINGS. REVISED ARRANGEMENTS OF PILES ETC, MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PILING
4. FOR TESTING OF PILES REFER TO PILING NOTE ON DRG S001
5. ALL WORKING LOADS INCLUDE 50kN DRAG DOWN FORCES.
6. ALL PILE CUT OFF LEVELS TO BE CONFIRMED.
7. WORKING LOADS SHOWN IN THE PILE SCHEDULE ARE UNFACTORED.
8. HORIZONTAL LOAD SHALL BE APPLIED TO THE PILE HEAD.
9. THE PILING SHOWN ON THIS DRAWING IS TO BE CARRIED OUT BY THE PILING CONTRACTOR. THE BUILDING CONTRACTOR SHALL CUT BACK THE PILES FROM THE PRELIMINARY PILE CUT OFF LEVEL AND EXPOSE THE REINFORCEMENT.

Issue	Description	Date
B	ISSUED FOR CONSTRUCTION	10.12.13
A	ISSUED FOR CONSTRUCTION	23.09.13

Client: SYDNEY SUPERYACHT MARINA PTY LTD

Status: CONSTRUCTION

Scales: 1:100 | Original Size: A1 | Height Datum: DATUM | Grid: Grid

Current Issue Signatures: Drawn GAH | Designed FL | Checked JH | Approved AT

Filename:

Project: SYDNEY SUPERYACHT MARINA - STAGE 1

Title: PILE LAYOUT

HYDER CONSULTING PTY LTD
ABN 76 104 485 289
Level 5, 141 Walker Street
North Sydney NSW 2060
Australia
Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com

Drawing No: S003 | Project No: AA005805 | Issue: B

Date Plotted: 10/12/2013 5:17:55 PM

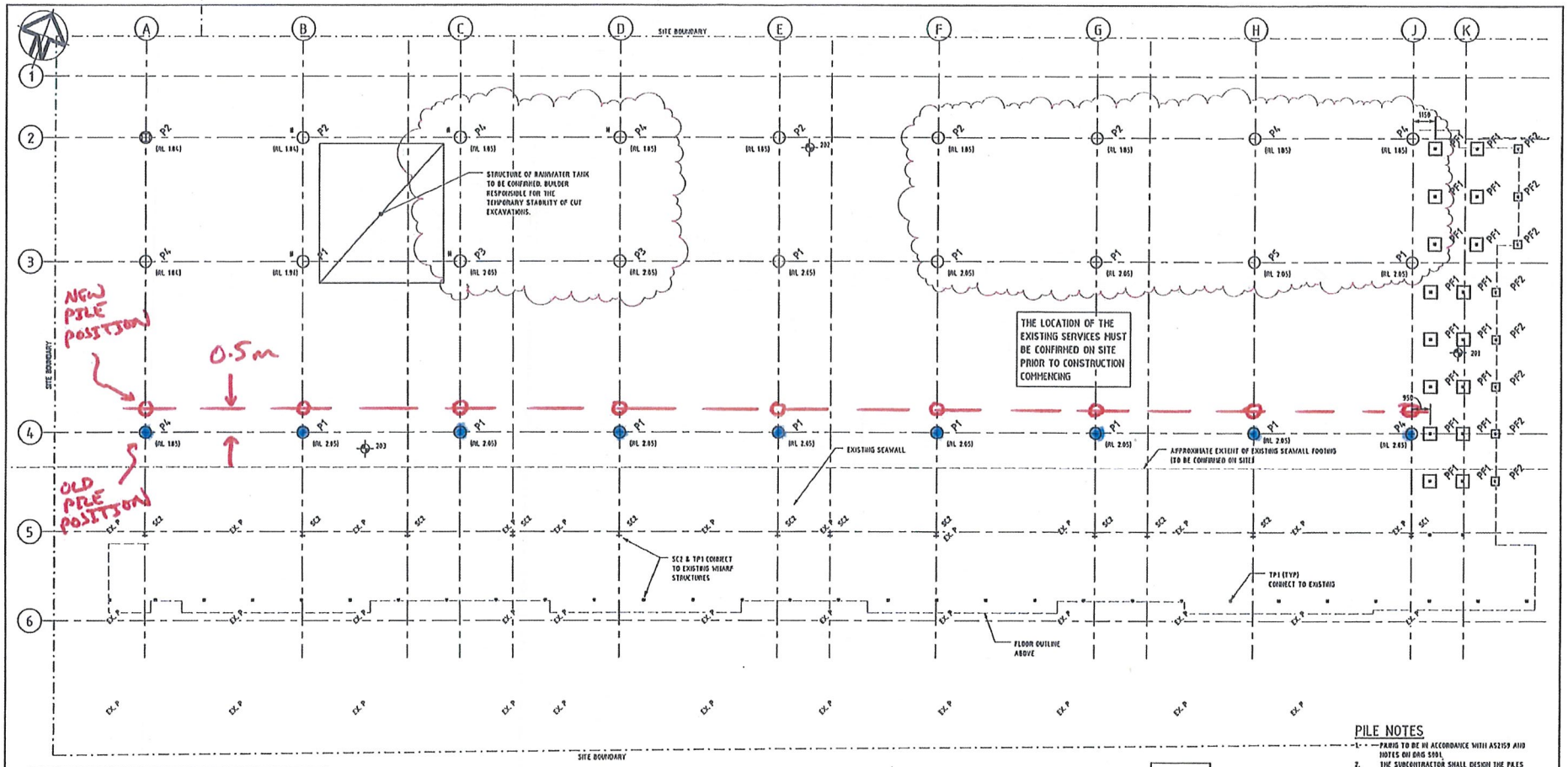
CLIENT: Ganellen

PROJECT: Superyachts, Rozelle

Project No.: 2900

AS-BUILT DETAILS
Foundation Piles

As-built Details															
Pile No.	Date installed	Dia. (mm)	Conc. strength (MPa)	Ground level (RL)	Drill depth (m)	Pile toe (RL)	Socket Length (m)	Top of Concrete (RL)	Top of Steel (RL)	Cage					Comments
										Bars	Dia. OD (mm)	Length (m)	Spiral	Proj. (m)	
1	21/01/2014	600	50	2.1	29.5	-27.4	0.5	wsl	2.70	5N20	400	9.0	N10-300	0.5	
2	21/01/2014	600	50	2.1	29.2	-27.1	0.7	wsl	2.24	10N24	400	9.0	N10-300	0.5	
3	22/01/2014	600	50	2.1	28.6	-26.5	0.8	wsl	2.25	10N24	400	9.0	N10-300	0.5	
4	23/01/2014	600	50	2.0	27.8	-25.8	0.6	wsl	2.30	10N24	400	9.0	N10-300	0.5	
5	23/01/2014	600	50	2.0	26.0	-24.0	0.7	wsl	2.30	5N20	400	9.0	N10-300	0.5	
6	23/01/2014	600	50	2.0	20.8	-18.8	0.6	wsl	2.30	5N20	400	9.0	N10-300	0.5	
7	23/01/2014	600	50	2.1	22.9	-20.8	0.8	wsl	2.30	5N20	400	9.0	N10-300	0.5	
8	24/01/2014	600	50	2.3	18.0	-15.8	0.8	wsl	2.25	5N20	400	9.0	N10-300	0.5	
9	24/01/2014	600	50	2.3	14.3	-12.1	0.8	wsl	2.25	5N20	400	9.0	N10-300	0.5	
10	22/01/2014	600	50	2.1	29.4	-27.3	0.8	wsl	2.10	5N20	400	9.0	N10-300	0.5	
11	22/01/2014	600	50	2.0	28.8	-26.8	0.6	wsl	2.40	10N24	400	9.0	N10-300	0.5	
12	22/01/2014	600	50	2.0	28.5	-26.5	0.8	wsl	2.40	10N24	400	9.0	N10-300	0.5	
13	23/01/2014	600	50	2.1	28.2	-26.1	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
14	23/01/2014	600	50	2.0	27.2	-25.2	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
15	22/01/2014	600	50	2.0	22.9	-20.9	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
16	22/01/2014	600	50	2.1	23.5	-21.4	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
17	17/01/2014	600	50	2.1	16.7	-14.6	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
18	20/01/2014	600	50	2.2	12.7	-10.5	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
19	21/01/2014	600	50	1.9	29.1	-27.2	0.6	wsl	2.25	5N20	400	9.0	N10-300	0.5	
20	21/01/2014	600	50	1.9	28.5	-26.6	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
21	21/01/2014	600	50	1.9	28.3	-26.4	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
22	20/01/2014	600	50	1.9	28.2	-26.3	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
23	17/01/2014	600	50	1.9	26.5	-24.6	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
24	17/01/2014	600	50	1.9	23.7	-21.8	0.8	wsl	2.40	5N20	400	9.0	N10-300	0.5	
25	17/01/2014	600	50	2.0	22.2	-20.2	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	
26	17/01/2014	600	50	2.0	17.7	-15.7	0.5	wsl	2.40	5N20	400	9.0	N10-300	0.5	
27	20/01/2014	600	50	2.2	11.7	-9.5	0.7	wsl	2.40	5N20	400	9.0	N10-300	0.5	



PILE SCHEDULE				
TYPE	DIA. (mm)	Socket Length into 3000kPa Bedrock	VERTICAL WORKING LOAD	HORIZONTAL WORKING LOAD (IN ALL DIRECTIONS)
P1	600	1700mm	1800kN	45kN
P2	600	900mm	1300kN	33kN
P3	600	2100mm	2000kN	50kN
P4	600	1800mm	1700kN	43kN
P5	600	2500mm	2200kN	55kN

PAD FOOTING SCHEDULE		
TYPE	SIZE (L x W x D) (mm)	REINFORCEMENT
PF1	650 x 650 x 300	N12-200 T&B EW
PF2	400 x 400 x 300	N12-200 T&B EW

PILE LAYOUT

1 : 100

PILE CONCRETE STRENGTH f'c=50MPa

PILE CONCRETE COVER 35mm

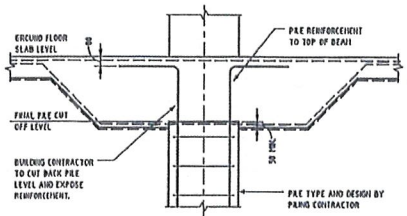
REFER TO GEOTECHNICAL REPORT FOR THE DEPTH TO UNDERLYING BEDROCK.

EXP - DENOTES EXISTING PILE DESIGNED BY OTHERS

- DENOTES BOREHOLE LOCATION AS PER GEOTECHNICAL REPORT BY JC GEOTECHNICS DATED 22/4/2013 REPORT No:26481SYrpt

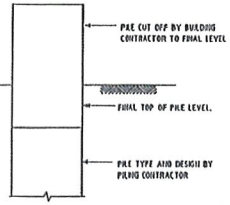
(RL XX) - DENOTES PILE CUT OFF LEVEL

H - DENOTES MINIMUM L55G REINFORCEMENT FOR THE TOP 6000mm



TYPICAL PILE CONNECTION DETAIL

1 : 20



PRELIMINARY PILE CUT OFF DETAIL

1 : 20

PILE NOTES

1. PARIS TO BE IN ACCORDANCE WITH AS2159 AND NOTES ON DRG S001.
2. THE SUBCONTRACTOR SHALL DESIGN THE PILES WHICH WHICH INSTALLED PROPERLY WILL CARRY THE LOADS SHOWN ON THE DRAWINGS.
3. THE NUMBER OF PILES AND THE PILE SIZE AND TYPE MAY BE VARIED FROM THOSE ON THE DRAWINGS. REVISED ARRANGEMENTS OF PILES ETC, MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PILING.
4. FOR TESTING OF PILES REFER TO PILING NOTE ON DRG S001.
5. ALL WORKING LOADS INCLUDE SKIN DRAG DOWN FORCES.
6. ALL PILE CUT OFF LEVELS TO BE CONFIRMED.
7. WORKING LOADS SHOWN IN THE PILE SCHEDULE ARE UNFACTORED.
8. HORIZONTAL LOAD SHALL BE APPLIED TO THE PILE HEAD.
9. THE PILING SHOWN ON THIS DRAWING IS TO BE CARRIED OUT BY THE PILING CONTRACTOR. THE BUILDING CONTRACTOR SHALL CUT BACK THE PILES FROM THE PRELIMINARY PILE CUT OFF LEVEL AND EXPOSE THE REINFORCEMENT.

Issue	Description	Date
B	ISSUED FOR CONSTRUCTION	10.12.13
A	ISSUED FOR CONSTRUCTION	23.09.13

Client: SYDNEY SUPERYACHT MARINA PTY LTD

Status: CONSTRUCTION

Scales: 1:100 | Current Issue Signatures: Drawn GAS

Original Size: A1 | Designed FL

Height Datum: DATUM | Checked JH

Grid: Grid | Approved JH

Filename:

Project: SYDNEY SUPERYACHT MARINA - STAGE 1

Title: PILE LAYOUT

HYDER CONSULTING PTY LTD
ABN 78 104 485 289
Level 8, 141 Walker Street
North Sydney NSW 2060
Australia
Tel: +61 (0)2 8907 9000
Fax: +61 (0)2 8907 9001
www.hyderconsulting.com

Drawing No.	Project No.	Issue
S003	AA005805	B

Date Plotted: 7/01/2014 3:09:35 PM

Hyder Consulting Pty Ltd
Level 5, 141 Walker Street
Locked Bag 6503
North Sydney NSW 2060
Australia
Tel: +61 2 8907 9000
Fax: +61 2 8907 9001
www.hyderconsulting.com

DESIGN CERTIFICATE - Structural Design

Site Details: SYDENY SUPER YACHTS – STAGE 1- WESTERN BUILDING					
Street no. / Street name:	**Maritime Close**				
Suburb:	**Rozelle Bay**	State:	**NSW**	Postcode:	**2000**
Description of Work:	**Structural design for the ground & first floor and steel framing of the western rectangular building**				

Details of development / building approval:			
DA:	DA no. (incl. all subsequent S96 approvals)	Consent authority	Date original DA granted:
	MP09_0165	Minister of Planning and Infrastructure	**14/09/2011**
CC:	All CC's issued under ABA file no:	Certifying authority	Date 1st CC issued
		City Plan Services	

Certification:

I, the undersigned, certify that:

1. The following structural works:

   All structural work that relates to the above development,
   All structural work that relates to the above development, as been designed in accordance with normal engineering practice and has been checked to comply with the requirements of:

   - The relevant clauses of the Building Code of Australia BCA (BCA) - B1.1, B1.2 and B1.4.
   - The relevant Australian Standards listed in the BCA including –

   AS1170.0-2002 Structural Design Actions – General Principals
   AS1170.1-2002 Structural design actions - Permanent, imposed and other actions
   AS1170.2-2011 Structural design actions - Wind actions
   AS1720.1-2010 Timber structures - Design methods
   AS3600-2009 Concrete Structures
   AS4100-1998 Steel Structures

   - The relevant DA Consent Conditions.

2. The proposed structural elements included in the above structural design, as detailed in the following Structural Design Drawings have been thoroughly checked and coordinated with relevant DA consent conditions and Construction Certificate Plans (approved for construction) for:

   - Fire Resistance Levels (FRL's) of building elements and masonry walls, in particular determined in accordance with the requirements of the BCA, and
   - Geometry and location of structural members, profiles, ducts, stairs and columns, etc.

3. I am an appropriately qualified practising structural engineer and have:

   a) Appropriate tertiary qualifications in Civil or Structural Engineering, AND
   b) Corporate membership of the Institution of Engineers Australia or equivalent, AND
   c) Relevant experience in the area of work being certified, AND
   d) Appropriate current professional indemnity insurance (taken up by me or my employer as appropriate) to the satisfaction of the building owner or the principal authorising the design work.

Drawing No.	Rev.	Drawing Title	Date
S001	T1	GENERAL NOTES SHEET 1	12/06/2013
S002	T1	GENERAL NOTES SHEET 2	12/06/2013
S003	T1	PILE LAYOUT	12/06/2013
S006	T1	STAIR ELEVATIONS AND DETAILS	12/06/2013
S007	T1	GROUND FLOOR SLAB PLAN	12/06/2013
S008	T1	GROUND FLOOR SLAB SECTIONS	12/06/2013
S009	T1	FIRST LEVEL SLAB PLAN	12/06/2013
S010	T1	FIRST LEVEL SLAB SECTIONS	12/06/2013
S011	T1	ROOF FRAMING LAYOUT	12/06/2013
S012	T1	ROOF PLANT FRAMING LAYOUT	12/06/2013
S013	T1	STEELWORK ELEVATIONS SHEET 1	12/06/2013
S014	T1	STEELWORK ELEVATIONS SHEET 2	12/06/2013
S015	T1	STEELWORK DETAILS	12/06/2013
S018	T1	BLOCKWORK DETAILS SHEET 1	12/06/2013
S019	T1	BLOCKWORK DETAILS SHEET 2	12/06/2013

Name:	John Merrick	Qualification:	BEng, MIEAust, CPEng, NPER
Company Name:	Hyder Consulting Pty Ltd	ABN No:	76 104 485 289
Company Address:	Level 5, 141 Walker Street North Sydney NSW 2060	Tel:	02 8907 9000
Signature:		Position Title:	Director - Structures
		Date:	20/09/2013