

PILE CAP SCHEDULE			
PILE CAP MARK	LENGTH	WIDTH	DEPTH
PC1	3650	2200	2500
PC2	2000	1500	1200
PC3	REFER PLAN	REFER PLAN	2000
PC4	6600	2200	3000
PC5	4500	1500	1500

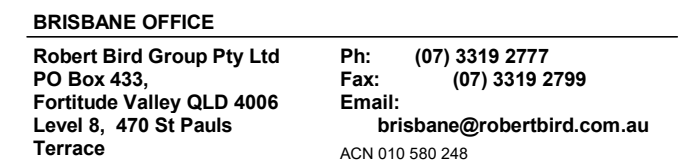
SCALE	1	2	3	4	5	6	7	8
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**DO NOT SCALE DRAWINGS, USE FIGURED DIMENSIONS
REFER TO GENERAL NOTES UNLESS NOTED OTHERWISE**

Structural, Civil & Construction
Engineering Consultant



Client
QIC

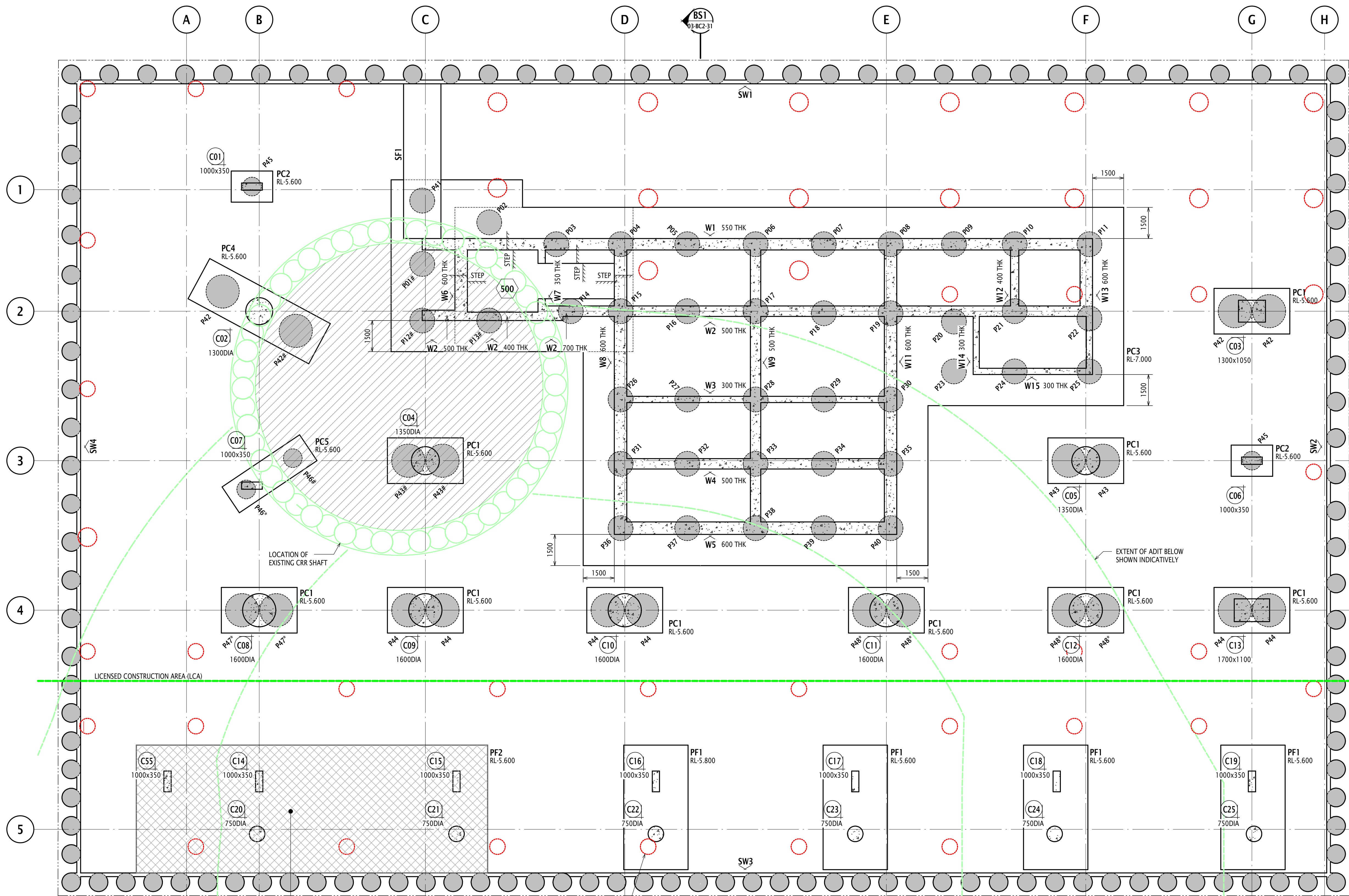
Project
101 ALBERT STREET, BRISBANE

Title
FOUNDATION PLAN

Date	Drawn
Jun 2024	D.STUCKEY
Scale at A1	Designer
1:100	N.DOYLE/T.KATUNAR
	Design Checker
	-
Job Number	Approved
22131S	M.AVERY

FOR TENDER - NOT FOR CONSTRUCTION

ALB-RBG-DWG-ST-03-BC2-01 T04



FOUNDATION PLAN
SCALE 1 : 100

GENERAL ARRANGEMENT LEGEND:

- | | |
|--|---|
|  | DENOTES INSITU CONCRETE ELEMENT OVER |
|  | DENOTES LOAD BEARING ELEMENT UNDER |
|  | DENOTES LOAD BEARING ELEMENT UNDER AND INSITU CONCRETE ELEMENT OVER |
|  | DENOTES SLAB STEP |
|  | DENOTES SLAB THICKNESS |
|  | DENOTES COLUMN NUMBER AND SIZE |
|  | DENOTES WALL NUMBER & DIRECTION ELEVATION IS VIEWED |
|  | DENOTES SHOWING WALL NUMBER & DIRECTION ELEVATION IS VIEWED |

FOUNDATION COVER

LOCATION/ELEMENT	COVER (mm)
PC3	60
PILE CAPS	60
PAD FOOTINGS & RAFT	60
FOUNDATION PILES	75

FOUNDATION CONCRETE STRENGTH

LOCATION/ELEMENT	CONCRETE MIX
PC3	CM651
RAFT OPTION	CM801
PC1, PC4	CM801
PC2, PC5	CM651
PF1, PF2	CM502
FOUNDATION PILES	CM801

NOTES:

1. REFER TO CONCRETE SPECIFICATION FOR MIX TYPES

FOUNDATION RATES

LOCATION/ELEMENT	REINFT RATE [kg/m³]
PC3	200
PC1	200
PC4	275
PC2, PC5	150
PF1, PF2	175
PILES	
- CORE FOUNDATIONS	250
- COLUMN FOUNDATIONS	180
RAFT OPTION	200

PILE SCHEDULE

PILE MARK	PILE DIA (m)	SOCKET (m)			APPROX TOP OF SOCKET (RL)	APPROX PILE TOE (RL)	LINER SLEEVE LENGTH (m)	TOTAL PILE LENGTH (m)
		20MPa ^a	NFG3	NFG1/2				
P01#1, P12-P13(#)	1.2	7	-	-	-10	-17	N/A	7
P02-P04	1.2	-	3	5	-12	-20	N/A	10.1
P05-P11	1.2	-	3	5	-12	-20	N/A	11
P14-P18(*)	1.2	-	0	6.5	-27	-33.5	N/A	24.5
P19-P22	1.2	-	3	5	-11	-19	N/A	10
P23-P25	1.2	-	3.5	3	-10.5	-17	N/A	8
P26-P30(*)	1.2	-	0	5	-28	-33	N/A	24
P31-P35(*)	1.2	-	0	7.5	-28	-35.5	N/A	26.5
P36-P40(*)	1.2	-	0	11	-29	-40	N/A	31
P42	1.6	-	2	3	-11.3	-16.3	N/A	8.2
P42#	1.6	6	-	-	-8.6	-14.6	N/A	6
P43	1.6	-	2	2.5	-10.3	-14.8	N/A	6.7
P43#	1.6	6	-	-	-8.1	-14.1	N/A	6
P44	1.6	-	0	6.5	-16	-22.5	N/A	14.4
P45	0.9	-	1.5	0	-11.5	-13	N/A	6.2
P46#	0.9	-	-	-	-7.1	-11.1	N/A	4
P46*	0.9	-	1.5	0	-27	-28.5	N/A	21.4
P47*	1.6	-	0	6.5	-25	-31	N/A	22.9
P48*	1.6	-	0	6.5	-30	-36.5	N/A	28.4

PILE SCHEDULE NOTES:

1. WHERE NOTED BY "d" THE STATED SOCKET AND TOTAL PIPE LENGTHS ASSUME SHAFT BACKFILL MATERIAL ACHIEVES EQUIVALENT CAPACITY TO NGFI-2 ROCK AND THAT NO VOIDS ARE PRESENT IN THE BACKFILL. LONGER LENGTHS ARE REQUIRED FOR A SHALLOW BACKFILL MATERIAL TO BE FOUND TO BE UNSUITABLE. REFER TO GEOTECHNICAL REPORT FOR DETAILS.
2. WHERE NOTED BY "m" THE STATED SOCKET AND TOTAL PIPE LENGTHS DO NOT CONSIDER THE ADIT BACKFILL AS SUITABLE OR EFFECTIVE FOUNDDING. REFER TO GEOTECHNICAL REPORT FOR DETAILS.
3. SUBJECT TO GEOTECHNICAL INVESTIGATIONS. REFER GEOTECHNICAL REPORT.
4. CORE PILES P02-P04 & P13-P15 ARE SHORTER DUE TO LOCAL 2.9m CAP THICKENING. COLUMN C02 PILES ARE SHORTER DUE TO 3m DEEP LCP CAP.
5. ^ DENOTES MINIMUM 20MPa CONCRETE BACKFILL.

THE FOLLOWING INFORMATION IS BASED UPON FOUNDATIONS CONSISTING OF PILE CAPS AND LARGE DIAMETER BORED PIERS WITH POTENTIAL ISOLATION SLEEVES. READ BELOW IN CONJUNCTION WITH THE CRR ASSET PROXIMITY PLANS ON DRGS ST-01-000-11 & 12

80%DD NOTE:

1. THE FOUNDATION PILES TO BE SOCKETED INTO NF3 AND NF1/2 ROCK, RESPECTIVELY, AS NOTED IN THE GEOTECHNICAL REPORT. THE FOUNDATION PILE DESIGN IS BASED ON THE FOLLOWING ASSUMPTIONS:
 - ADVISE PROVIDED IN THE GEOTECHNICAL REPORT IS BASED INTERPRETATION OF AVAILABLE GEOTECHNICAL INVESTIGATION INFORMATION AT THE TIME OF TENDER. ALL GEOTECHNICAL ADVISE NEEDS TO BE CONFIRMED VIA GEOTECHNICAL INVESTIGATIONS.
 - THE PILE LENGTHS ASSUME BRILLIANT MATERIAL TO SHAFT AND ADITS IS A SUITABLE ALTERNATIVE TO NF1/2 ROCK
 - THE PILE DESIGN IS BASED ON THE RECOMMENDED VERTICAL SPRINGS IN THE GEOTECHNICAL REPORT.
2. BORED PILES HAVE BEEN SET-OUT WHERE POSSIBLE TO MINIMISE CLASHES WITH IN-GRASSING CRUISE STRUCTURE INCLUDING THE TEMPORARY ACCESS SHAFT WALL, ADITS AND ACOUSTIC SHEED PILES.
3. COORDINATION WORK IS BASED UPON AVAILABLE CR INFORMATION AT THE TIME OF THIS DOCUMENT ISSUE. THE LOCATION AND SIZE OF CR ASSETS ARE INDICATIVE ONLY AND TO BE CONFIRMED.
4. IN EXISTING INFRASTRUCTURE THE CR STRUCTURE HAS BEEN SHOWN INCLUDING, BUT NOT LIMITED TO TEMPORARY ROCK BOLTS AND ANCHORS. BORED PILES HAVE NOT BEEN POSITIONED TO MISS ROCK BOLTS AND ANCHORS AND THEREFORE THE CONTRACTOR IS TO MAKE ALLOWANCE FOR DRILLING THROUGH EXISTING IN-GRASSING STRUCTURE.
5. BORED PILE SIZES ARE BASED ON THE TEMPORARY ACCESS SHAFT AND ADITS BEING DRILLFILLED WITH 20MPa CONCRETE AND EXISTING SHAFT PILES & ACOUSTIC PILES BEING BROKEN DOWN. REFER CR ASSETT PROXIMITY PLANS FOR DETAILS.