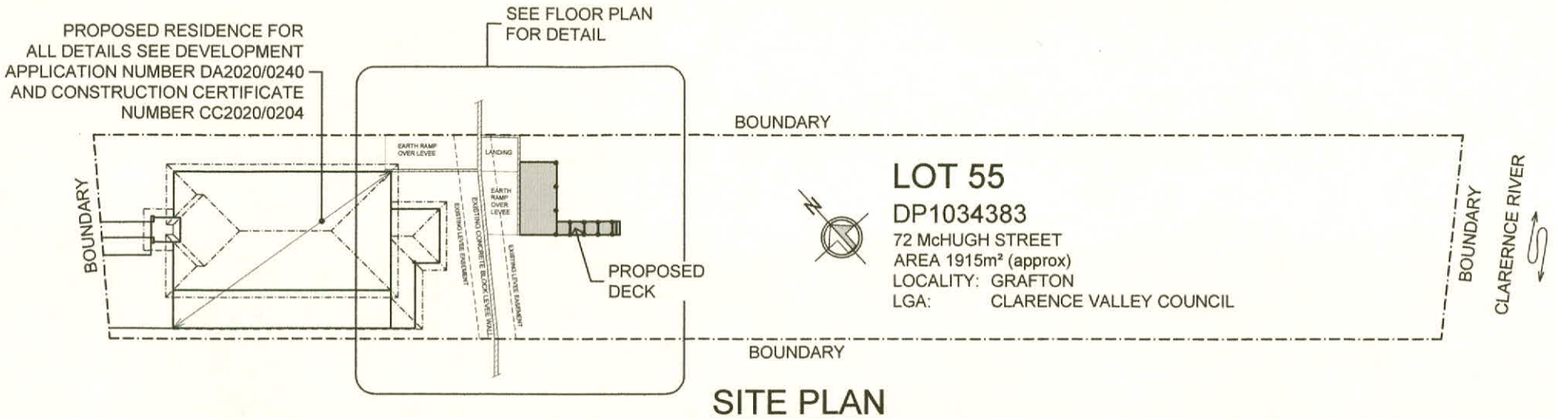
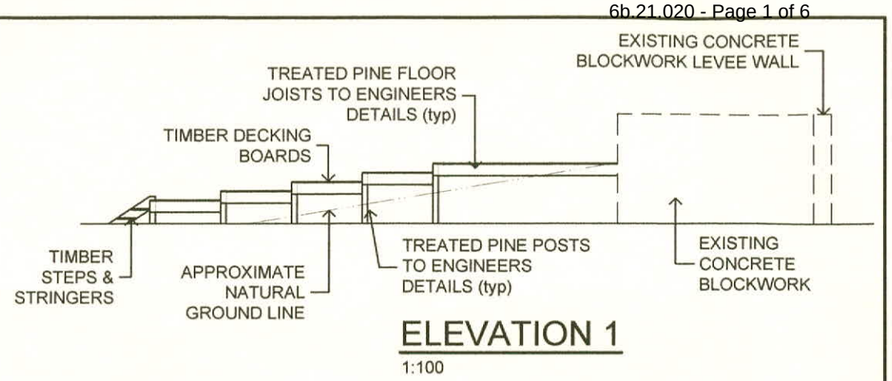


SITE PLAN
1:500



ELEVATION 1
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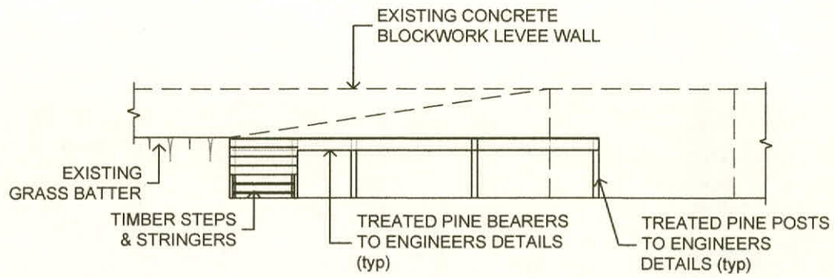

ELEVATION 2
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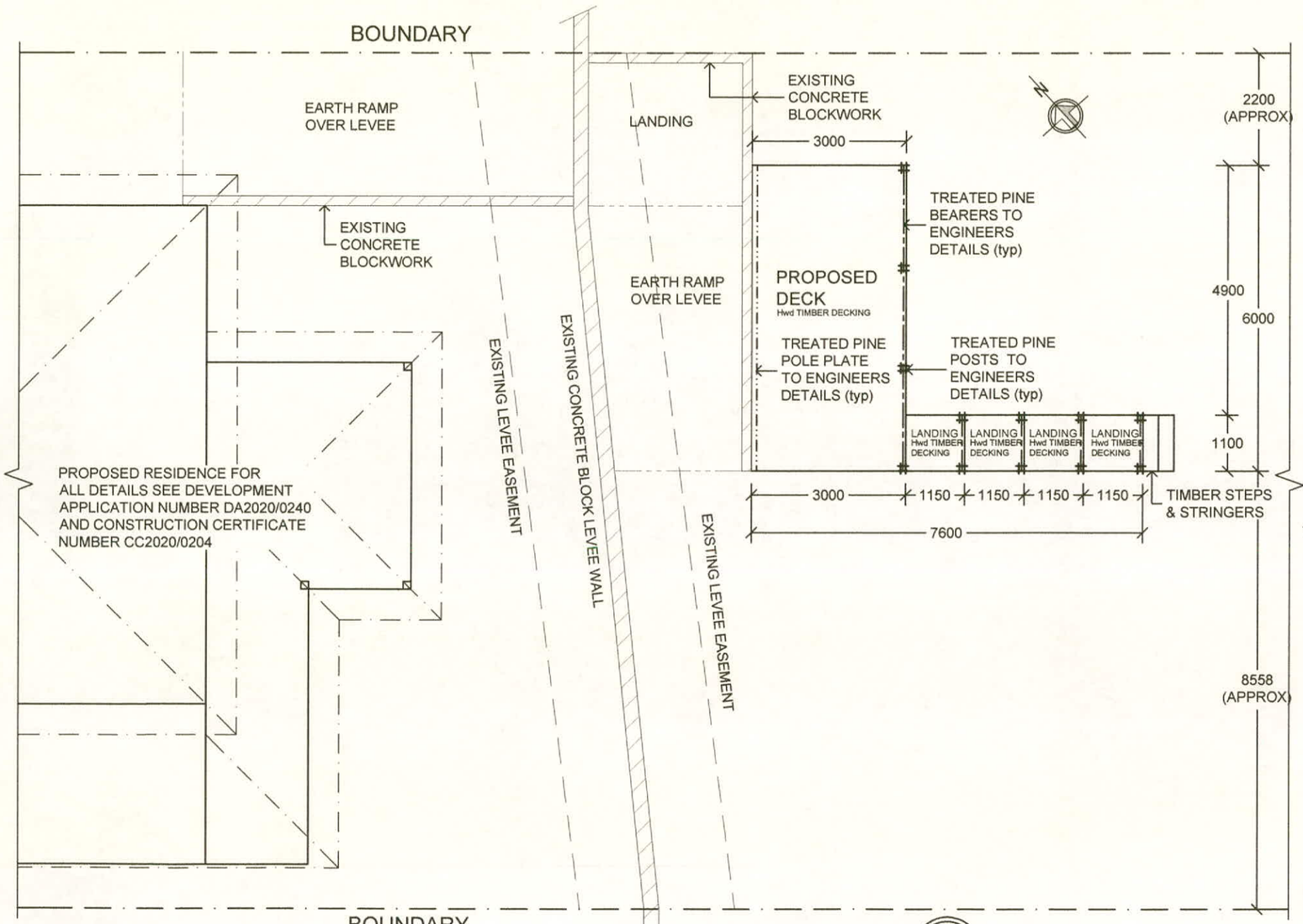
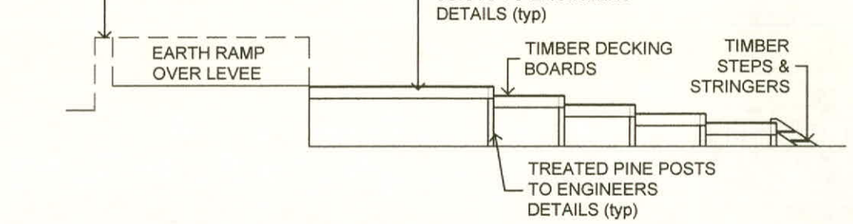
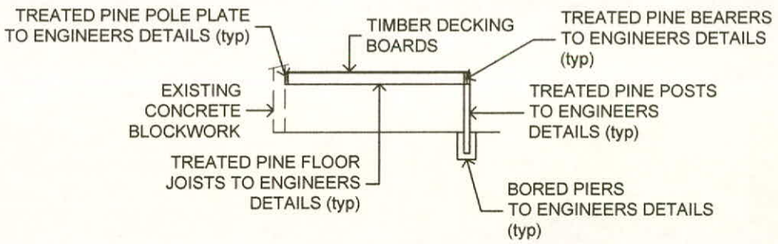


FLOOR PLAN
1:100



ELEVATION 3
1:100



TYPICAL SECTION
1:100

No.	REVISION	DATE

CLIENT
P.A & J.L. HYLAND

JOB DESCRIPTION
WORKS AS EXCUTED PLAN FOR
PROPOSED DECK AT
LOT 55 DP1034383 72 McHUGH STREET,
GRAFTON

DATE 06th OCTOBER 2020 | SHEET 1 of 1

McKenzie Burridge & Associates Pty Ltd
CIVIL & STRUCTURAL CONSULTING ENGINEERS

Job No. 20-172
25 September 2020

P. HYLAND
57 MCHUGH STREET
GRAFTON NSW 2460

RE: Deck at 72 McHugh Street, Grafton

1 Introduction

1.1 As requested we have undertaken an inspection of the deck located on the Clarence River side of the levee at the above address and herewith provide our report on the structure.

1.2 The inspection was undertaken on the 28th of July 2020.

1.3 This report is based on a visual inspection only and no other testing or investigations have been undertaken.

1.4 We cannot comment on any items which were not apparent during the visual inspection.

2 Description

2.1 The deck is located on the Clarence River side of the Grafton levee wall at 72 Mchugh Street, Grafton.

2.2 The deck is 6 metres x 3 metres and has a number of larger steps that follow the contour of the natural ground towards the Clarence River.

2.3 The deck is constructed of treated pine posts, bearers and joists with hardwood floor boards as shown on our attached plan job number 20-172 sheet number SK1.

2.4 The deck is connected to the concrete blockwork wall that retains fill for the earthen ramp that provides access to the river bank for 72 McHugh Street, Grafton. The ramp is located on the Clarence River side of the levee and is approximately 3 metres wide. The blockwork levee wall forms the opposite side of the ramp.

3 Commentary

3.1 The deck construction is approximately 800mm from the natural ground at its highest point on the downstream side of the deck.

3.2 The deck construction matches in to the natural ground on the upstream side of the deck. This provides a minimal amount of cross sectional area for flood flow load and debris items to get caught on and less potential for the deck to be effected during a flood event. A photograph is shown in figure 1.

3.3 The natural profile of the flood flow will not be adversely effected by the deck.

3.4 The property is located downstream of two horizontal steps in the levee as shown in figure 2. There are also a number of large trees on the river bank at number 68, 66, 64 and 62 Mchugh Street. The combination of these constraints will be that large debris items such as trees and the like are likely to be caught up or guided away from the deck location.

3.5 The property is located on the inside of the curve of the river as shown in figure 3.

Figure 1 – Deck Profile matches natural ground

Figure 2 – Levee steps and trees

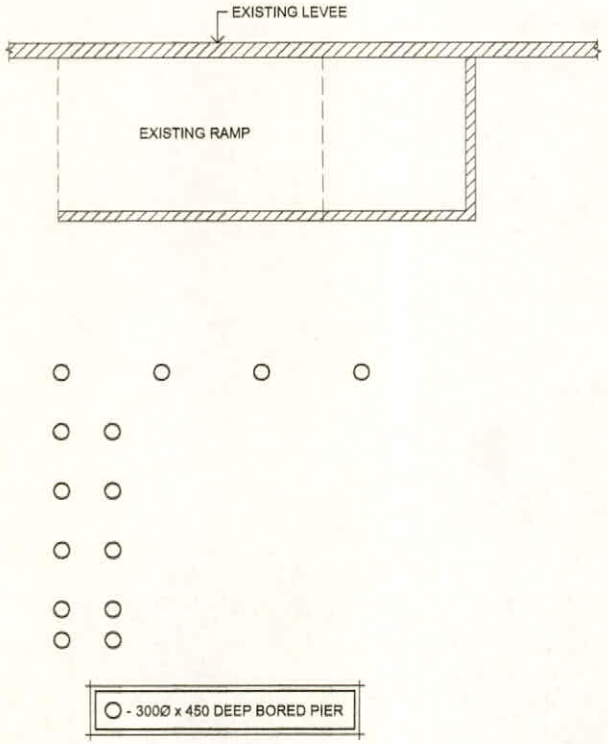
Figure 3 – Curvature of the Clarence River

4 Conclusion

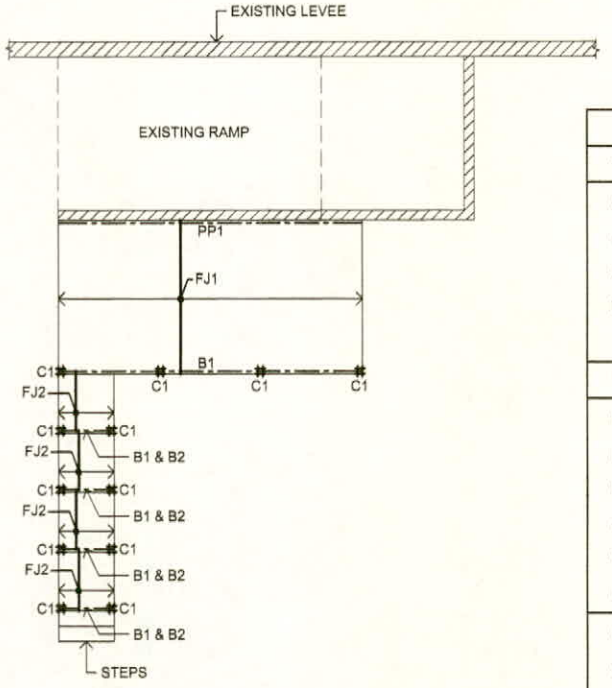
4.1 It is our opinion that the potential for the deck to damage the levee is extremely low due to the location of the deck, the profile of the deck and the protection to the levee offered by the earthen and concrete blockwork ramp construction.

Signed:

Simon Bruce
Grad.I.E. Aust. BE (Civil) (Hons Class ii, Div ii)
(for) McKenzie Burridge & Associates Pty. Ltd



FOOTING PLAN
1:100



FLOOR FRAMING PLAN
1:100

MEMBER SCHEDULE	
WALL MEMBERS	
COLUMNS	
C1	90 x 90 TREATED PINE POST
POLE PLATES	
PP1	190 x 45 TREATED PINE FIXED TO BLOCKWORK WITH M12 BOLTS @ APPROX. 900 CTS
FLOOR FRAMING	
BEARERS/BEAMS	
B1	190 x 45 TREATED PINE (CONT. & SS)
B2	140 x 45 TREATED PINE (SS)
JOISTS	
FJ1	190 x 45 TREATED PINE (@ 450 cts)
FJ2	140 x 45 TREATED PINE (@ 550 cts)
SS	DENOTES SINGLE SPAN
CONT	DENOTES CONTINUOUS MEMBER OVER THREE OR MORE SUPPORTS

REVISION | DATE | DWN

APPROVED
I CERTIFY THAT THE WORKS SHOWN ON THIS PLAN HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS.

M. BURRIDGE M.I.E. AUST., C.P. Eng.
(FOR McKENZIE BURRIDGE & ASSOCIATES PTY. LTD.)

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office@mckenzieburridge.com.au
ABN 18 092 814 595

SCALE	AS SHOWN
SHEET SIZE	A3
DRAWN	AW
CHECKED	MB
DESIGNED	SB
BUILD DES.	-
DATE	SEPT 2020
APPROVED	MB

JOB DESCRIPTION: PROPOSED DECK AT 72 MCHUGH STREET, GRAFTON

DRAWING TITLE: FOOTING PLAN & FLOOR FRAMING PLAN

CLIENT: P HYLAND

JOB No. 20-172
SHEET No. SK1
REVISION -