Subject: Footing Philosophy in relation to the location of the Heritage Listed Fig Tree

A new three storey general learning building is being developed at Ithaca Creek State School, Lugg St, Bardon. The preferred site is on the existing tennis court area closest the hall. In this location, the planned new building envelope overlaps with a heritage listed fig tree’s protection zone (TPZ) as defined in Redlands Tree Service, Arborist Report version 01 dated 06 November 2019 (refer SK01 for location of overlap zone).

Generally, the intended footing system outside the TPZ will involve high level strip or pad footings founding on the extremely weathered rock layer (tbc once geotechnical report is received). The footing system inside the TPZ will be proposed as localised bored pier footings under columns and walls. Further bored piers will be proposed under the raft slab, the tiered seating and any retaining walls within the TPZ. Bored piers are proposed to minimise the plan area of the footings within the TPZ to minimise excavation and any effects on the tree roots. The design will be done such that bored pier locations can be altered on site to suit where existing tree roots are not.

Please note it is expected that the 100thk flat slabs on ground are allowed in the tree protection zone.

Please refer to SK01 attached for intended footing strategy.

Should you have any queries regarding this report the undersigned can be contacted directly 0407774459.

Regards

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ITHACA CRK STATE SCHOOL
FOOTING PHILOSOPHY IN
TREE PROTECTION ZONE
BR190339
12.11.19
SK01

COLUMN AND FOOTING SCHEDULE
C1: 1000x300
C2: 400SQ
PF1: 2000SQ x 500D
PF2: 2400SQ x 600D
SF1: 100W x 400D
SF2: 600W x 400D

DENOTES SF3: 400W x 400D
INTEGRATED WITH RAFT SLAB

DENOTES 450DIA BORED PIER
REQD WITHIN THE TPZ

DENOTES 450DIA BORED PIER
REQD OUTSIDE THE TPZ

RAFT: 120THK SoG, SL92
MESH TOP + 0.2mm
POLYTHENE SHEET + 50
SAND + 100 CBR 45+
MATERIAL

DJ - DENOTES DOWEL JOINT
SDJ - DENOTES SQUARE DOWEL JOINT

TREE PROTECTION ZONE
(TPZ), 15m RADIUS FROM
TREE TRUNK IN ACCORDANCE
WITH REDLANDS TREE
SERVICES ARBORIST REPORT

450DIA PIERS TO
SUPPORT SF1
AND RAFT SLAB

450DIA PIERS TO
SUPPORT TIERED
SEATING AND EDGE
RETAINING WALLS

450DIA PIERS TO
SUPPORT RETAINING WALL

Preliminary

INTERNATIONAL ARCHITECTS
ABN 75 010 179 334.

DM2 Architecture

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