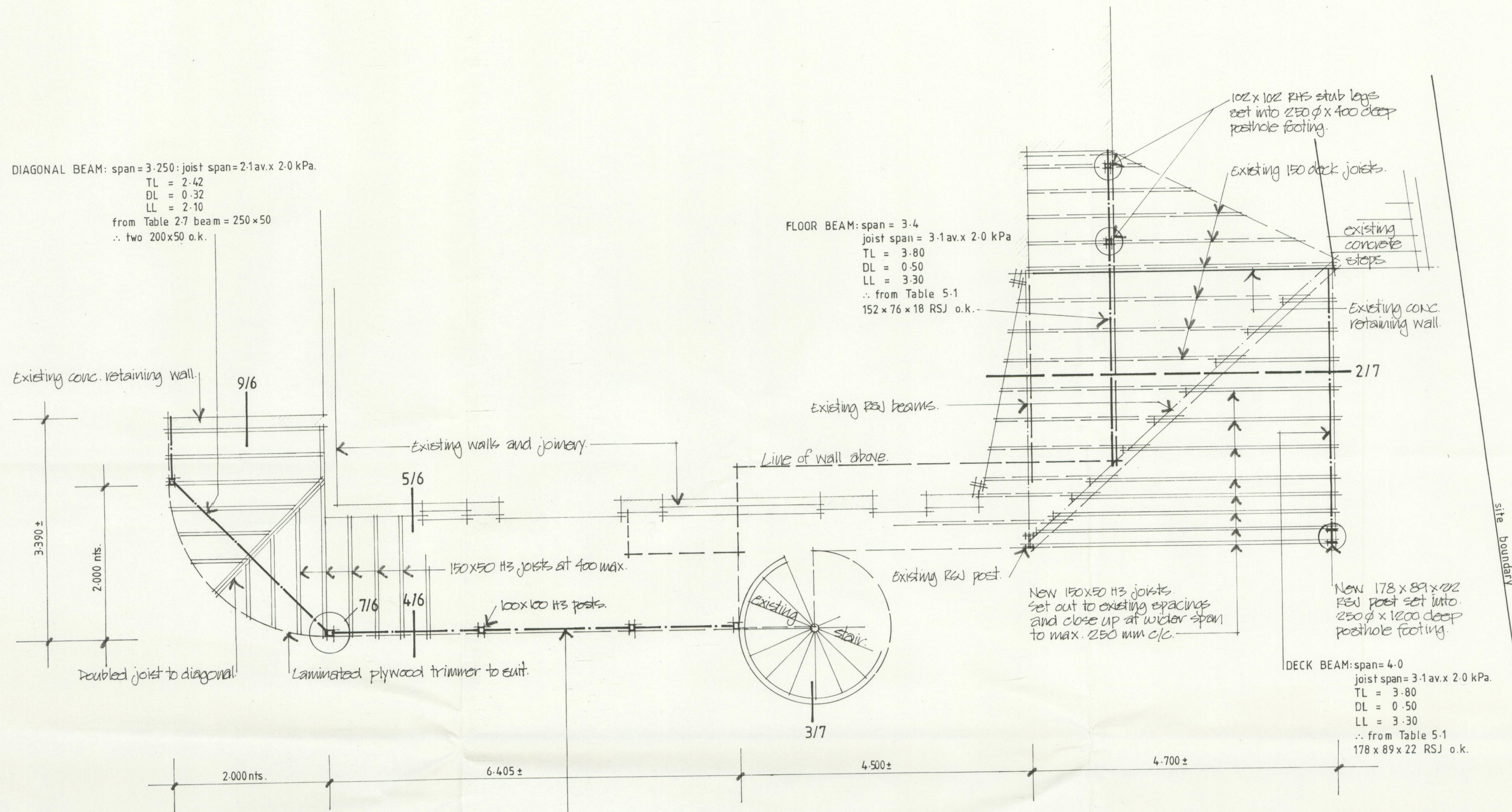


DIAGONAL BEAM: span = 3.250: joist span = 2.1av. x 2.0 kPa.
 TL = 2.42
 DL = 0.32
 LL = 2.10
 from Table 2.7 beam = 250 x 50
 ∴ two 200 x 50 o.k.

FLOOR BEAM: span = 3.4
 joist span = 3.1av. x 2.0 kPa
 TL = 3.80
 DL = 0.50
 LL = 3.30
 ∴ from Table 5.1
 152 x 76 x 18 RSJ o.k.

DECK BEAM: span = 4.0
 joist span = 3.1av. x 2.0 kPa.
 TL = 3.80
 DL = 0.50
 LL = 3.30
 ∴ from Table 5.1
 178 x 89 x 22 RSJ o.k.

DECK BEAM: span 2.4
 joist span 1.8 x 2.0 kPa.
 TL = 2.42
 DL = 0.32
 LL = 2.10
 from Table 2.7
 beam = 200 x 50



RANKIN RESIDENCE MAUNGATAPU

PROPOSED ADDITION TO
 EXISTING DWELLING AND
 BALCONY DECK STRUCTURE

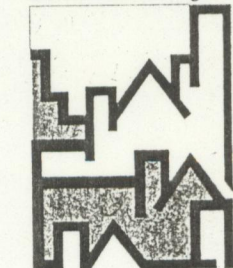
Subfloor Layout

Sheet - 4

1:50



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