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Our Ref: PSM1541-019L
Date: 15 February 2012

Goodman
Level 10, 60 Castlereagh Street
SYDNEY NSW 2000

ATTENTION: ADRIAN TESORIERO
By email: adrian.tesoriero@goodman.com

Dear Adrian,

**RE: OAKDALE CENTRAL PRECINCT, STAGE 1B**
**PROPOSED ESTATE ROAD (CH280 m TO CH720 m)**
**PAVEMENT THICKNESS DESIGN**

This letter presents a pavement thickness design for the Estate Road proposed for Stage 1B of the Oakdale Central Precinct development.

In designing the pavement thickness, we have adopted the following:

1. Design traffic loading, N = $1x10^7$ ESA
2. Design subgrade California Bearing Ratio, CBR = 2%, with a reduction for CBR = 5%

In undertaking the design, we have referred to Austroads (2010) "Guide to Pavement Technology Part 2: Pavement Structural Design" (Ref. AGPT02-10). We have checked the design against Fairfield Council requirements and the design complies.

Based on the above, the pavement design for Estate Road is as follows:

35 mm AC14 320 Bitumen
35 mm AC14 320 Bitumen
7 mm Spray seal
250 mm DGB 20 (placed in two layers)
500 mm Select Sandstone Fill with minimum CBR = 35% (placed in three layers)

If the subgrade CBR = 5%, the bottom layer of 200 mm of Select Sandstone Fill can be replaced with Select Fill with minimum CBR = 5%.

CBR testing shall be undertaken when the subgrade is at final subgrade level. If the CBR is found to be less than the assumed design value, further advice should be sought from a suitably qualified engineer.

Should there be any queries, please do not hesitate to contact the undersigned.

For and on behalf of
PELLS SULLIVAN MEYNINK

GARRY MOSTYN
PRINCIPAL

BERNARD SHEN
ASSOCIATE