

**Michael Blacker** Partnership

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PROJECT 5 Hermit Place  
London, NW6 4BZ

DRG TITLE

DRG No.

Job No. 4201

Sht. No. 6

Date Oct '16

req'd to re-check basement wall design adding  
1.5M deep ground water

from page 01A

$$M_o \text{ base of wall} = 103.8 + 9.81 \times 1.6 \times 1.5^3 / 6$$
$$= 112.63 \text{ kNm/m}$$

$$d = 205 \text{ mm}$$

$$K = \frac{112.63}{103.8} \times 0.07 = 0.076$$

$$A_s = 112.63 / 0.87 \times 0.5 \times 0.9 \times 0.205 = 1404 \text{ mm}^2/\text{m}$$

provide H16 @ 125 m c/c (1610 mm<sup>2</sup>/m) o.f. vert  
+ H10 @ 200 m c/c E.F. horiz

from page 02A

any effect on the inner wall face moment due to the addition of ground water will be more than adequately covered by the amount of vertical reinf supplied (ie 566 mm<sup>2</sup>/m in 160 of 183 mm<sup>2</sup>/m req'd from c/c's)