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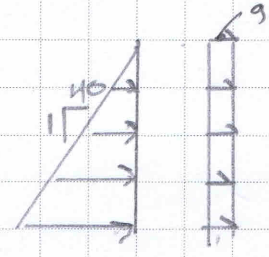
JOB 18062 Valentin Res
SHEET NO. C1 OF C1
CALCULATED BY DATE 5-23-19
CHECKED BY DATE
SCALE

8H (max 12' : 8x12 = 96 psf)



96/40 = 2.4' add

Check worst case 12' wall as 12+2.4 = 14.4'

Reduce F.S. 1.5 → 1.2

Increase all loads ΦMn & ΦVn x 1.33

12' wall 12+2.4' = 14.4'
(14.4')²/(12)² = 1.44
10' wall 10'+(8x10)/40 = 2 = 12'
12²/(10)² = 1.44
8' wall 8+64/40 = = 9.6'
(9.6)²/64 = 1.44

Since sliding resisted by slab, o.k.
1.2 x 1.44 = 1.7 F.S. overturning all walls o.k.
except 12' wall & tallest wall is 35'-25.75 = 9.25'
so o.k.

Check wall steel.
1.33/1.44 = .92 < 1.0 o.k. w/ seismic

∴ All wall designs adequate.

5-23-19

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