

• 7600 Cross Lane •

Budget Babington Butler 2-15-90



L.R. NELSON
CONSULTING ENGINEERS

MICROFILM pink (gr)

January 10, 1990
Project No. 245-001-901

"B" Team Masonry
3108 Emmons
North Las Vegas, NV, 89000

Attention: John Brown

Reference: 6' CMU Fence

Dear Sir:

In accordance with your request, we have reviewed the construction of an existing 6' CMU screen fence.

It is our understanding that this fence was intended to be built in accordance with City of Las Vegas standard fence drawing. From information provided us, the vertical bars were spaced at 48" o.c. instead of 40" o.c. as indicated on the standard drawing. The attached calculations show that the wall steel as constructed at 48" o.c. is acceptable.

If you have any questions regarding this matter, please call me.

Very truly yours,
L.R. NELSON CONSULTING ENGINEERS

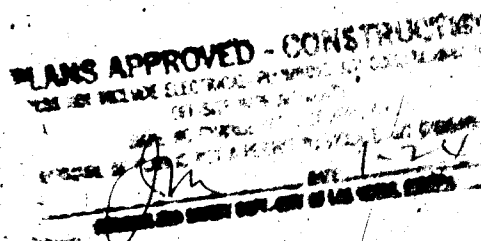
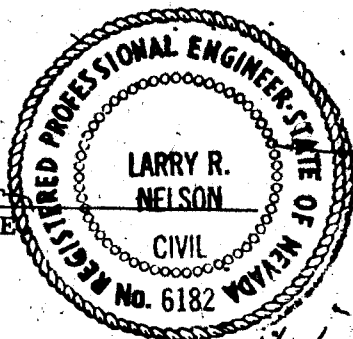
Ted L. Droessler
Ted L. Droessler

Reviewed by:

Larry R. Nelson
Larry R. Nelson, P.E.

TLD:LRN:mhs

Enclosure



Budget Babington Butler 2-15-90

 L.R. NELSON CONSULTING ENGINEERS		JOB NO. 245001901 DATE 1-90
PROJECT	SHEET 1 OF 1	
SUBJECT	6" CMU FENCE DESIGNED TLD CHECKED	
A 6" CMU FENCE WAS CONSTRUCTED WITH #4 BARS VERTICAL AT 48" O.C. THE WALL WAS TO BE BUILT IN ACCORDANCE WITH THE CITY OF LAS VEGAS STANDARD FENCE DRAWING. THE DRAWING INDICATES THAT #4 BARS SHALL BE PLACED VERTICALLY AT 40" O.C. MAXIMUM. CHECK #4 @ 48" O.C. #4 @ 48" O.C. VERT IS ADEQUATE FOR THE 6'-0" TALL FENCE. THE REINF. MAY BE EITHER GRADE 40 OR GRADE 60. WIND GOVERN'S BY INSPECTION. $P = C_e C_g I = 0.7 (1.3) (15) (1) = 13.65 \text{ PSF}$ $13.65 (3/4) = 10.24 \text{ PSF}$ $M = 10.24 \text{ PSF} (6 1/2) = 184.3$ $f'_m = 1350$ NO SPECIAL INSPECTION $A_s = 0.050 \text{ IN}^2/\text{FT}$ $\ell = \frac{0.05}{12 (2.81)} = 1.5 \times 10^{-3}$ $N = 29.78$ $\ell_N = 3.82 \times 10^{-2}$ $K = 0.29 \quad KJ = 0.221$ $J = 0.92$ $F_b = \frac{2 (184.3) (12)}{.221 (12) (2.81)^2} = 217 \text{ psi}$ $F_s = \frac{184.3 (12)}{.05 (1.92) (2.81)} = 17,110 \text{ psi}$ $F_b \leq F_s \leq F_c = 225$		