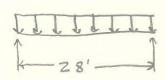
APPENDIX C

Structural Calculations:

STRUCTURAL CALCULATIONS: ADDING COOLING TOWER



BEAM

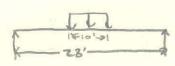
DEAD LOAD :

40 PSF EFROM UNITED STEEL DECK

LIVE LOAD:

TO PSE LASCE TOS 3

NEW COOLING TOWER



DEAD 12160/2 = 6080/7,898"

BEAM + COOLING TOWER

Z= 1/E = Z<-7

SECTION 16, Z-4

2p = 3.76 \E/Fy = 29000 KS1 = 94,4

Zr = 5.7 [E/Fy = 5.7 x25.1 = 143.07

CABON ASOD GR. B , FY = 46 FU = 58

FOLLOWING EAN FROM LRFD PE 16, 2.7

DESIGN SPEC FOR STEEL HOLLOW STRUCTURE

M=FYZ = 48 x 33,8, NS = 16ZT.4 K. N = 135. 2K.FT

135.2 KIFT > 116.63 K.FF

SO BEAN OR FOR NEW COOLING TOLDERS

CANADA CONTRACTOR