WORLD TRADE CENTER
FLOOR GRID TRUSSES
DESIGN DATA

TRUSS UNIT MARKED 2C32TG Refer to drawings ST101, 4, 5, 6, 8

Clearspan "L" = 34.83 ft. Spacing = 6.67 ft.

Applicable Total Moment = 4780.000 inch pounds.

Based on ____ lbs./sq. ft. Total Load "W". R. 65,000.

Applicable End Reaction = R~ 32,000 pounds.

Based on ____ lbs./sq. ft. Total Load "W".

Applicable Total Constr. Moment = 1,053,000 inch pounds.

Based on 75 lbs./sq. ft. Construction Load.

Applicable Constr. End Reaction = 9360 pounds.

Based on 75 lbs./sq. ft. Construction Load.

"V" Shear at End Panel = _____ pounds. ED = _____ ft.

WEB MEMBER #1 Distance from End Panel = _____ ft.

Applicable Shear V_x = 26.630 lbs. f_y = 50.000 psi

Slope = 2.65 f_s = 30.000 psi

ℓ = _____ in. f_{sc} = _____ psi

Reqd. Area = 2.35 sq. in. Use 2-0.75"D Area = 2.72 sq. in.

WEB MEMBER #2 Distance from End Panel = ____ ft.

Applicable Shear V_x = 26.630 lbs. f_y = 50,000 psi

Slope = 1.00 f_s = _____ psi

ℓ = _____ in. f_{sc} = 16,880 psi

Reqd. Area = 1.53 sq. in. Use 2.1.14"D Area = 2.04 sq. in.

WEB MEMBER #3 Distance from End Panel = _____ ft.

Applicable Shear V_x = 17,920 lbs. f_y = 50,000 psi

Slope = 1.162 f_s = _____ psi

ℓ = 295 in. f_{sc} = 13,870 psi

Reqd. Area = 1.51 sq. in. Use 2-1.14"D Area = 2.04 sq. in.