WORLD TRADE CENTER
FLOOR GRID TRUSSES
DESIGN DATA

TRUSS UNIT MARKED C32T4 Refer to drawings ST 101.2.4.6.7

Clearspan "L" = 59.08 ft. Spacing = 6.67 ft.

Applicable Total Moment = 500,000 inch pounds.

Based on — lbs./sq. ft. Total Load "w".

Applicable End Reaction = 8000 pounds.

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

Applicable Total Constr. Moment = _____ inch pounds.

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

Applicable Constr. End Reaction = _____ pounds.

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

"V" Shear at End Panel = 7,184 pounds. ED = 3.0 ft.

WEB MEMBER #1 Distance from End Panel = 0.0 ft.

Applicable Shear V_x = 7,184 lbs. f_y = 50,000 psi

Slope = 2.65 f_s = 30,000 psi

ℓ = — in. f_{sc} = _____ psi

Reqd. Area = .635 sq. in. Use .92"D Area = .667 sq. in.

WEB MEMBER #2 Distance from End Panel = 0.0 ft.

Applicable Shear V_x = 7,184 lbs. f_y = 36,000 psi

Slope = 1.00 f_s = — psi

ℓ = 20.0 in. f_{sc} = 11,200 psi

Reqd. Area = .64 sq. in. Use .92"D Area = .667 sq. in.

WEB MEMBER #3 Distance from End Panel = 4.87 ft.

Applicable Shear V_x = 5,860 lbs. f_y = 50,000 psi

Slope = 1.162 f_s = _____ psi

ℓ = 30.0 in. f_{sc} = 9,970 psi

Reqd. Area = .683 sq. in. Use .98"D Area = .755 sq. in.