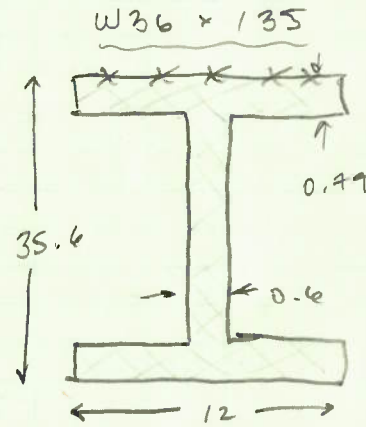
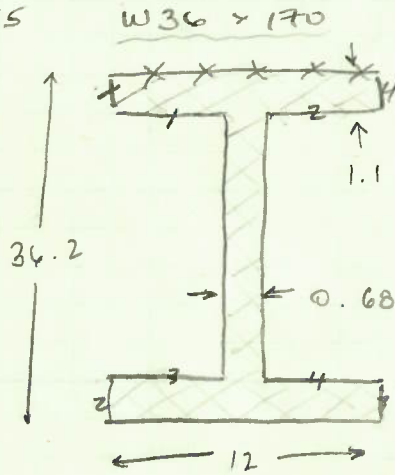


SPAN	BEAM
2, 3	W36 x 170
1, 4, 5, 6	W36 x 135

→  $AL = 156'$   
 →  $AL = 231.5'$

BEAMS

\* IN INCHES



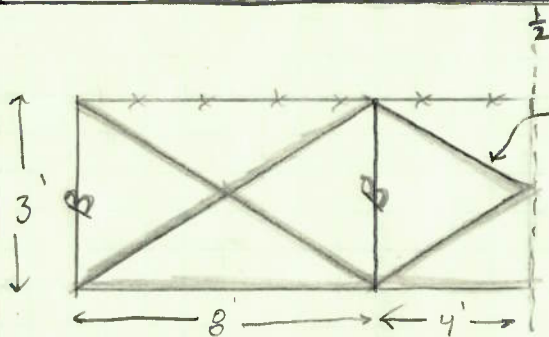
$$W36 \times 170 \rightarrow \frac{1.1(4) + 5.46(4) + 34(2) + 12}{12} = 8.92 \text{ Sq FT/FT}$$

$$W36 \times 135 \rightarrow \frac{0.79(4) + 5.7(4) + 34.02(2) + 12}{12} = 8.83 \text{ Sq FT/FT}$$

$$(8.92 (156') + 8.83 (231.5')) \times 4 \text{ BEAMS}$$

$$A_{\text{BEAMS}} = 13,746 \text{ Sq FT.}$$

CROSSFRAMES



L3 x 3 x 5/16

32 TOTAL X-FRAMES

$$\sqrt{7.9^2 + 2.84^2} = 8.4 \checkmark$$

$$(8.4' \times 6) + 8'(3) = 74.4 \text{ FT / X-FRAME}$$

$$L3 \times 3 \times 5/16 = 1 \text{ Sq FT/FT}$$

$$74.4 \times 32 \text{ TOTAL} = 2,381 \text{ Sq FT} = A_{\text{X-F}}$$

22 TOTAL SCUPPERS.

SCUPPERS

$$\left( \left( \frac{2\pi}{12} (2\pi) \right) \times \frac{3'}{H} \right) \times 22$$

$$A_{\text{scup.}} = 277 \text{ Sq FT.}$$

$$\Delta A = 16,404 \text{ Sq Ft.}$$

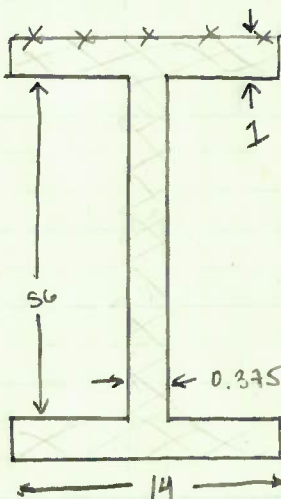
*Kaelen Howard*

SFN: 0202495

ALL-75-13.827

SFN: 0202G14

\* IN INCHES



$\Delta L = 511.75'$

$\rightarrow \frac{1(4) + 6.8125(4) + 56(2) + 14}{12}$

$= (13.1 \text{ Sq FT/FT} \times 511.75) \times 4$

$A_{\text{GIRD.}} = 26,825 \text{ Sq. FT}$

GIRDERS

$H = 56''$   
 $W = 6''$   
 $T = 3/8'' - 7/8'' \rightarrow \text{USING } 1/2''$

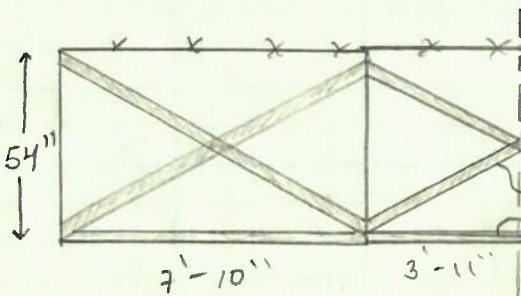
STIFFENERS

1184 TOTAL STIFFENERS

$\frac{6}{12} + \frac{1/2}{12} + \frac{6}{12} = 1.05 \text{ Sq FT/FT} \times 56/12 = 4.861 \text{ Sq FT}$

$A_{\text{STIFF}} = 5,756 \text{ Sq FT.}$

$\times 1184$



$\sqrt{7.83^2 + 4.5^2}$

$\Rightarrow (9.04' \times 6) + 23.5(\frac{4}{3}) = 85.57 \text{ Sq FT}$

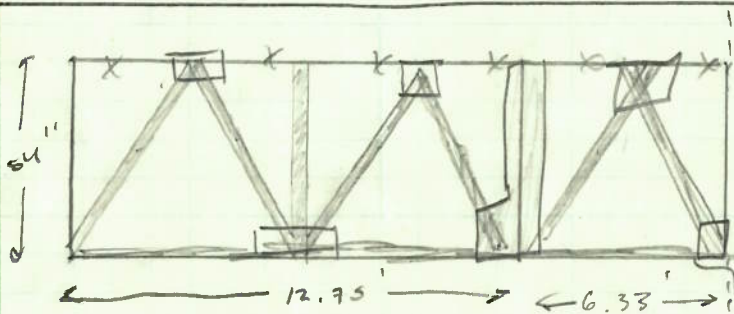
L3x3x5/16  
L4x4x5/16

$\times 42 \text{ XF SECT.}$

CROSS FRAMES

$A_{\text{XF}} = 3,594 \text{ Sq FT}$

ALL-75-14.902



END-X-FRAMES

$6.25^2 + 4.5^2 = 7.7 \text{ FT}$   
 $(7.7(6) + 19 + 4.5(2))$   
 $\times 2 = 148.4' (\frac{4}{3})$

L4x4x5/16

$\times 2 \text{ SIDES}$

$A_{\text{END XF}} = 396 \text{ Sq FT}$

27 TOTAL SCUPPERS

$(\frac{8}{12} (2\pi)) \times \frac{56''}{H} \times 27$

$A_{\text{SCUP}} = 528 \text{ Sq FT.}$

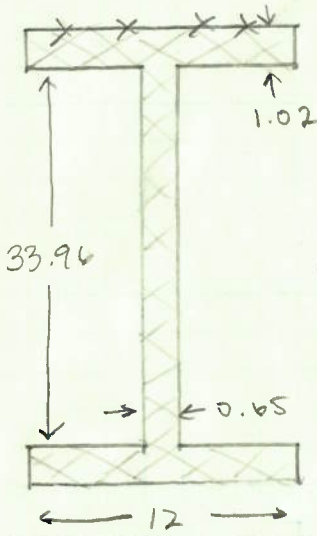
$\Delta A = 37,099 \text{ Sq FT}$

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W36 x 160 IN INCHES

BEAMS



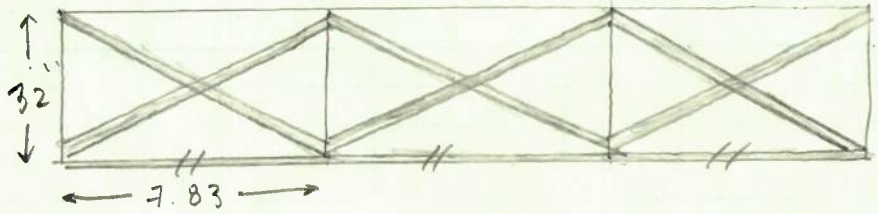
$$\rightarrow \frac{1.02(4) + 5.675(4) + 33.96(2) + 12}{12}$$

$$\rightarrow (8.9 \text{ Sq FT / FT} \times 195') \times 4 \text{ B}$$

$$A_B = 6,936 \text{ Sq FT}$$

- ENDS: 24 x 4 x 5/16
- MIDS: 13 x 3 x 5/16

~~SCUPPERS~~  
CROSS FRAMES



$$\sqrt{2.67^2 + 7.83^2}$$

$$= 8.27(6) + 7.83(3) = 73.12 / \text{SECTION}$$

$$73.12(9) = 659 \text{ Sq FT} \quad 97.50 / \text{SECTION (ENDS)}$$

$$97.5(2) = 195 \text{ Sq FT}$$

≈ 12 TOTAL

SCUPPERS

$$((8/12)(2\pi)) \times 3' \times 12 \text{ TOTAL}$$

$$A_{\text{SCUP}} = 151 \text{ Sq FT}$$

$$\Delta A = 7,941 \text{ Sq FT}$$

SFN: 2002780

ANUNA DEF-249-0.094

*Kaelan Howard*

8/20/24