

CLA-4-0611R

BALLOON #

①  $2'' \times 3'' \times \frac{3}{8}''$   
 $(.1667 \times .25) \times 15.31 = .638 \text{ LBS.}$

①  $2'' \times 2'' \times \frac{3}{8}''$   
 $(.1667 \times .1667) \times 15.31 = .425 \text{ LBS.}$

④  $3'' \times 6'' \times \frac{3}{8}''$   
 $(.25 \times .5) \times 15.31 = 1.914 \text{ LBS}$

④  $6'' \times 3'' \times \frac{3}{8}''$   
 $(.5 \times .25) \times 15.31 = 1.914 \text{ LBS.}$

⑤  $6'' \times 6'' \times \frac{3}{8}''$   
 $(.5 \times .5) \times 15.31 = 3.828 \text{ LBS.}$

⑥  $6'' \times 6'' \times \frac{3}{8}''$   
 $(.5 \times .5) \times 15.31 = 3.828 \text{ LBS.}$

12.55

CLA-70-1446

BALLOON #

①  $3'' \times 6'' \times \frac{5}{16}''$   
 $(.25 \times .5) \times 12.76 = 1.595 \text{ LBS.}$

②  $7'' \times 8'' \times \frac{5}{16}''$   
 $(.5833 \times .6667) \times 12.76 = 4.962 \text{ LBS}$

6.56

MOT-675-0063R

BALLOON #

①  $6'-2'' \times 4'' \times 4'' \times \frac{5}{16}''$   
 $(6.167 \times 8.2) = 50.57 \text{ LBS}$

②  $6'-6'' \times 4'' \times 4'' \times \frac{5}{16}''$   
 $(6.500 \times 8.2) 53.3 \text{ LBS}$

(103.87) LBS

MIA-55-1183 FLANGE SPLICE CALC'S

BEAM # 5

OUTSIDE PLATES: (16" x 9/16" x 42 1/2") 2 REQUIRED  
 $(16/12) \times (42.5/12) \times 22.93 = 109.28 \text{ LBS}$   
 $109.28 \times 2 =$

216.56 LBS 216.93

FILLED PLATES: (16" x 1 1/16" x 20 7/8") 2 REQUIRED  
 $(16/12) \times (20.0729/12) \times 28.08 = 62.63 \text{ LBS}$   
 $62.63 \times 2 =$

125.25 LBS

INSIDE PLATES: (6 1/2" x 5/8" x 42 1/2") 4 REQUIRED  
 $(6.5/12) \times (42.5/12) \times 25.52 = 48.96 \text{ LBS}$   
 $48.96 \times 4 =$

195.83 LBS

SUB PER PIER TOTAL = 537.64 LBS

BOLTS, NUTS & WASHERS  
 $2.2 \text{ LBS} \times 24 = 52.8 \text{ LB} \times 2 = 105.6 \text{ LBS}$

TOTAL FOR EACH <sup>Beam</sup> PIER → 643.24 LBS

TOTAL TO PLANS → 643.61 x 6

BEAM #6

SAME CALC'S AND QUANTITIES AS ABOVE

~~UPDATE SEE SHEET 44/59 OF FILED PLAN SET.~~

~~1929.72 LBS PER BEAM~~

MOT-235-0022L

CROSS FRAMES REMOVED 3" X 3" X 5/16"

- 10 DIAGONAL - 8.255'  
8.255' x 6.1 POUNDS PER FOOT = 50.4 LBS.  
50.4 LBS x 10 = 504 LBS.
  - 5 STRUTS - 7.812'  
7.812' x 6.1 POUNDS PER FOOT = 47.7 LBS.  
47.7 LBS x 5 = 238.5 LBS.
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- TOTAL POUNDS REMOVED 504 + 238.5 = 742.5 LBS.  
PAID FOR WITH LS (Lump Sum)

CROSS FRAME REPLACEMENT 3" X 3" X 5/16"

- ANGLE 1D (8'-3/4") x 3" x 3" x 5/16" = 50.45 LBS.  
2D (8'-3/4") x 3" x 3" x 5/16" = 50.45 LBS.  
3S (7'-10 1/2") x 3" x 3" x 5/16" = 48.04 LBS.
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- TOTAL PER CROSSFRAME 148.94 LBS.
- x 2  

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297.88 LBS.

TOTAL QUANTITY FOR PLANS = 298 LBS