



Estimated Weight of Steel 91104
Corroded Bars in Floor & Girders 224004
Bars in 153422
Total Weight 468526
Estimated Volume of Concrete 200,000 cu ft
Total Volume 268,000 cu ft

LOCATION	MARK	NO	SIZE	LENGTH	WEIGHT
Stirrups in Beams	S1	38	1/4" x 1/4"	70	158700 lb
	S2	38	1/4" x 1/4"	70	158700 lb
	S3	40	1/4" x 1/4"	80	171400 lb
	S4	7	1/4" x 1/4"	14	29400 lb
Column Bolsters	B1	40	1/4" x 1/4"	80	171400 lb
	B2	40	1/4" x 1/4"	80	171400 lb
	B3	40	1/4" x 1/4"	80	171400 lb
	B4	7	1/4" x 1/4"	14	29400 lb
Horizontal in Beams	H1	40	1/4" x 1/4"	80	171400 lb
	H2	40	1/4" x 1/4"	80	171400 lb
	H3	40	1/4" x 1/4"	80	171400 lb
	H4	7	1/4" x 1/4"	14	29400 lb
Flats in Top of Roofing	F1	40	1/4" x 1/4"	80	171400 lb
	F2	40	1/4" x 1/4"	80	171400 lb
	F3	40	1/4" x 1/4"	80	171400 lb
	F4	7	1/4" x 1/4"	14	29400 lb
Flats in Roofing	R1	40	1/4" x 1/4"	80	171400 lb
	R2	40	1/4" x 1/4"	80	171400 lb
	R3	40	1/4" x 1/4"	80	171400 lb
	R4	7	1/4" x 1/4"	14	29400 lb
Flats in Top of Beam	T1	40	1/4" x 1/4"	80	171400 lb
	T2	40	1/4" x 1/4"	80	171400 lb
	T3	40	1/4" x 1/4"	80	171400 lb
	T4	7	1/4" x 1/4"	14	29400 lb
Shear Bars in Base	B1	40	1/4" x 1/4"	80	171400 lb
	B2	40	1/4" x 1/4"	80	171400 lb
	B3	40	1/4" x 1/4"	80	171400 lb
	B4	7	1/4" x 1/4"	14	29400 lb
Horizontal in Base	H1	40	1/4" x 1/4"	80	171400 lb
	H2	40	1/4" x 1/4"	80	171400 lb
	H3	40	1/4" x 1/4"	80	171400 lb
	H4	7	1/4" x 1/4"	14	29400 lb
Edge Protector	E1	40	1/4" x 1/4"	80	171400 lb
	E2	40	1/4" x 1/4"	80	171400 lb
	E3	40	1/4" x 1/4"	80	171400 lb
	E4	7	1/4" x 1/4"	14	29400 lb
Diaphragms	D1	40	1/4" x 1/4"	80	171400 lb
	D2	40	1/4" x 1/4"	80	171400 lb
	D3	40	1/4" x 1/4"	80	171400 lb
	D4	7	1/4" x 1/4"	14	29400 lb

STRIPPERS FOR 3" x 4" x 4.5" (BETHLEHEM)

MEMBERS	WEIGHT
M1 - 158700 lb	158700
M2 - 44100 lb	44100
M3 - 28000 lb	28000
M4 - 21000 lb	21000
TOTAL	251800

STRIPPERS FOR 3" x 4" x 4.5" (BETHLEHEM)

MEMBERS	WEIGHT
S1 - 16000 lb	16000
S2 - 16000 lb	16000
S3 - 16000 lb	16000
S4 - 16000 lb	16000
TOTAL	64000

GRAND TRUNK RAILWAY SYSTEM
DETROIT DIVISION 29th DISTRICT
 Bridge No. _____ Mile _____
HOLDEN AVENUE
WEST DETROIT - GRADE SEPARATION
 Examined: *Abstract* Structural Engineer
 Approved: *W. H. H. H.* Chief Engineer
 May 24 1915
 Designed by: J. W. M.
 Scale: 1/4" = 1'-0"
 Office of Chief Engineer, Michigan State Highway Dept.
 Sheet No. 1 of 1