WORTHINGTON, SKILLING, HELLE & JACKSON — Civil & Structural Engineers

PROJECT THE WORLD TRADE CENTER | TITLE TYPICAL CONCRETE WALL DETAILS | DATE 5-1-68

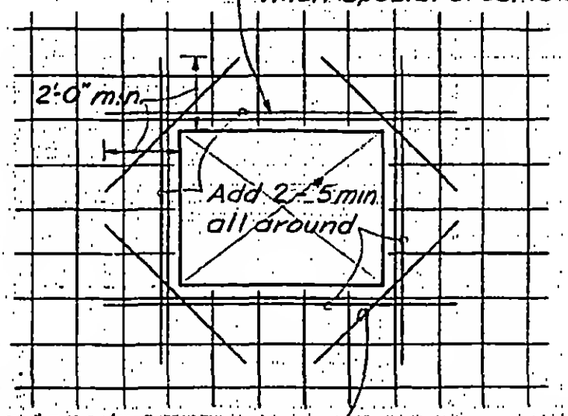
REVISIONS
7-9-68
12-18-68

* MINIMUM WALL REINFORCEMENTS

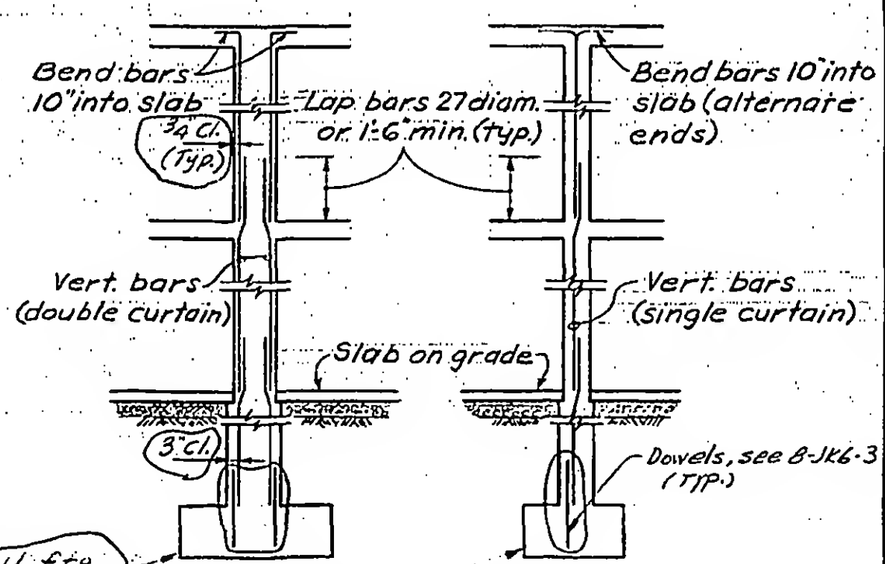
WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS		LOCATION IN WALL
		WALLS BELOW SLAB ON GRADE	WALLS ABOVE SLAB ON GRADE	
4"	#3 @ 18"	#3 @ 11"	#3 @ 8"	Center
5"	#3 @ 15"	#4 @ 16"	#4 @ 11"	Center
6"	#4 @ 18"	#4 @ 13"	#5 @ 15"	Center
7"	#4 @ 17"	#4 @ 11"	#5 @ 13"	Center
8"	#4 @ 16"	#5 @ 15"	#5 @ 11"	Center
9"	#4 @ 14"	#5 @ 14"	#5 @ 10"	Center
10"	#4 @ 18"	#4 @ 16"	#4 @ 11"	Each face
11"	#4 @ 18"	#4 @ 14"	#4 @ 10"	Each face
12"	#4 @ 18"	#4 @ 13"	#5 @ 15"	Each face
13"	#4 @ 18"	#4 @ 12"	#5 @ 13"	Each face
14"	#4 @ 18"	#4 @ 11"	#5 @ 12"	Each face
15"	#4@17"	#5@16"	#6@16"	Each face
18"	#4@14"	#5@14"	#6@14"	Each face
20"	#4@13"	#5@12"	#6@12"	Each face
27"	#5@15"	#6@13"	#7@12"	Each face
30"	#5@14"	#6@16"	#8@15"	Each face
36"	#6@16"	#7@13"	#8@12"	Each face

* Unless otherwise shown on plans or details.

Note:
All reinforcement shall conform to ASTM A-432 with f_y = 60 ksi unless otherwise shown on sections or details.



* ADDITIONAL STEEL AT WALL OPENINGS



TYPICAL VERT. BAR SPLICES

DRAWN S.C.
REVIEWED J.M. & E.L.

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