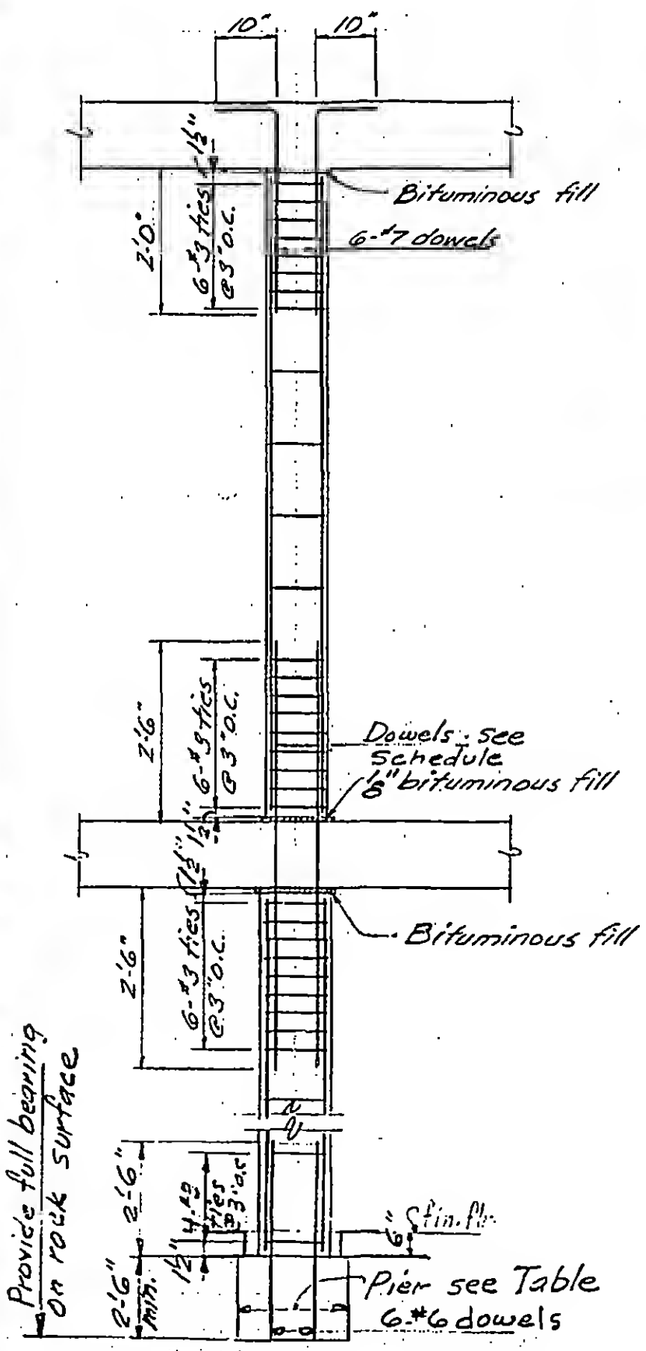
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: TEMPORARY SHORING - CONCRETE ALTERNATE | DATE: 3-5-69

REVISIONS



TABLE

H	Steel Shoring (El. 264'-0" Postensioned)	Revised Steel Shoring	Equivalent Concrete Column Shoring: Col. Diam.	Vert. Reinf.	Ties	Min. Pier size
11'-0"	6"ϕ	5"ϕ	10"ϕ	6-#6	#3@12	16"x16"
11'-0"	8"ϕ	6"ϕ	12"ϕ	6-#6	#3@14	18"x18"
11'-0"	10"ϕ	8"ϕ	12"ϕ	6-#6	#3@14	22"x22"
11'-0"	10"ϕ XX	10"ϕ	12"ϕ	6-#6	#3@14	32"x32"
14'-0"	6"ϕ	6"ϕ	12"ϕ	6-#6	#3@14	16"x16"
14'-0"	8"ϕ	8"ϕ	12"ϕ	6-#6	#3@14	18"x18"
14'-0"	10"ϕ XX	10"ϕ X	12"ϕ	6-#6	#3@14	32"x32"
19'-6"	8"ϕ (braced)	10"ϕ (not braced)	12"ϕ	6-#6	#3@14	22"x22"

H = maximum distance from top of slab to top of slab.
All pipe column to be standard grade except as noted.

Construction procedure:
1.) Screed column level with soffit of conc. slab
2.) After concrete has taken initial set, fill top of column with bituminous filler to bring level with soffit of slab. Provide not less than 6" bituminous filler.
3.) Cast concrete slab.
4.) Within an area not less than 1" greater than the column, provide 8" bituminous fill
5.) Repeat steps 1.) through 4.) as required.

Notes:
1) f'c = 3000 psi
2) ASTM A615-60 reinforcing
3) Forms: Sonotube or equivalent

DOWEL SCHEDULE	
10"ϕ to 10"ϕ	6-#7
All others	6-#8

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED G. Raizis
DRAWN J. Adams
REVIEWED L.E. Robertson

8-JK8-20.7