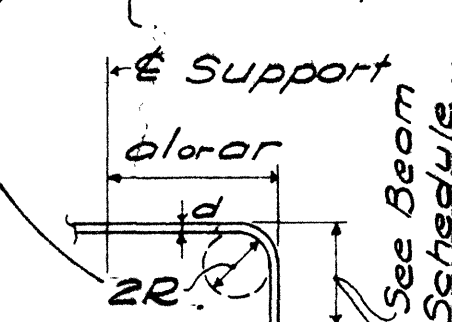
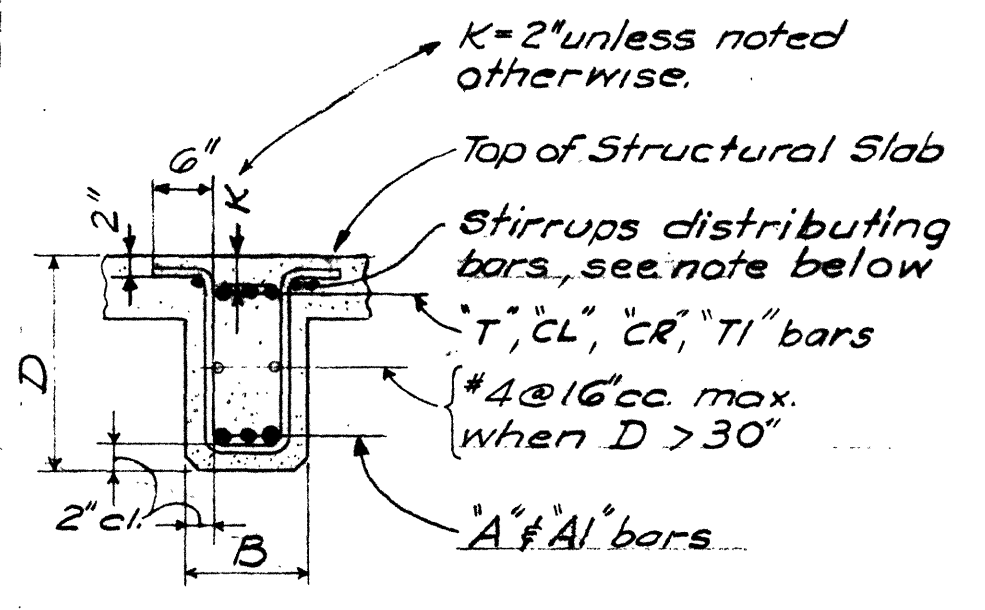


2R = 12" for #7 & smaller
8" for #8 & larger



BEAM REINF. HOOKS

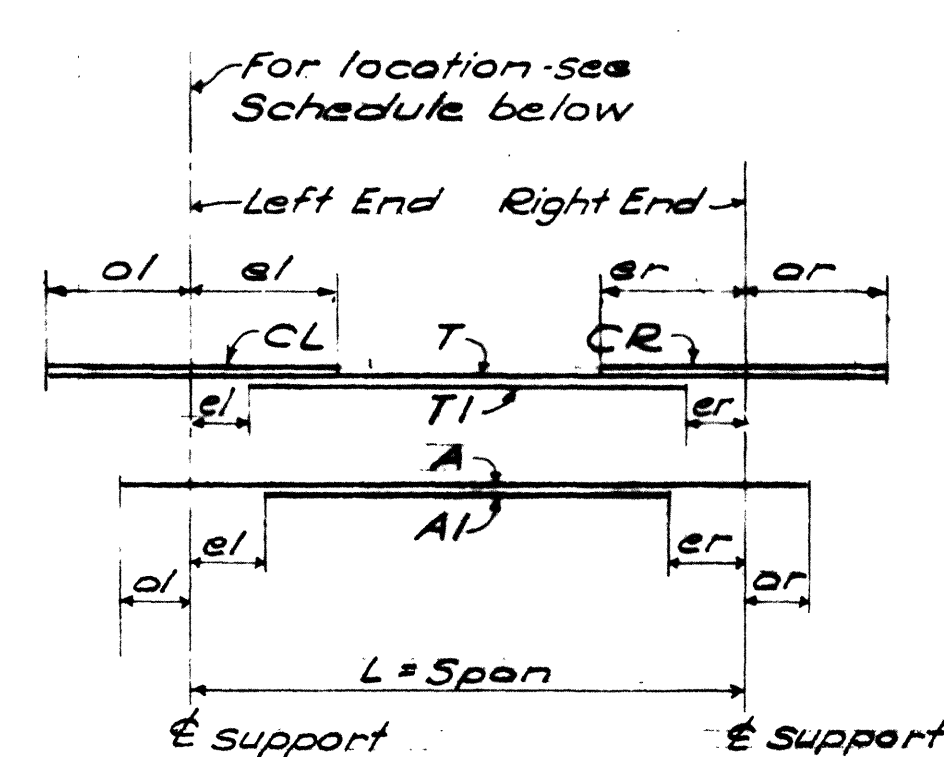
Bar Size	Hook Length
#4	5"
#5	5 1/2"
#6	6"
#7	7"
#8	8"
#9	9"
#10	10"
#11	11"



TYPICAL BEAM SECTION

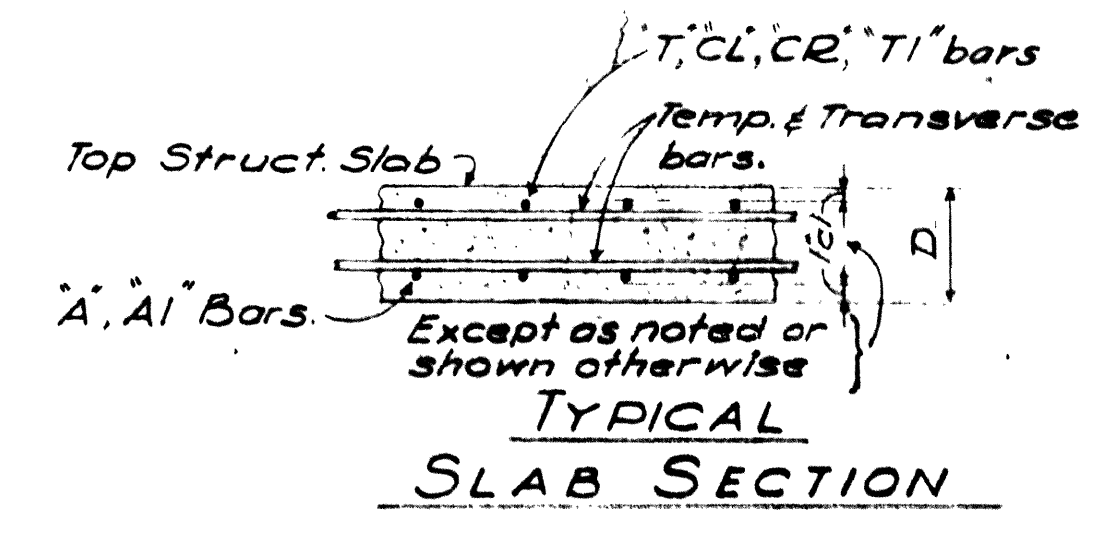
BEAM NOTES

All beams shall have stirrups thruout entire length. Place first stirrup 2" from face of support, then as per schedule. Provide 4" stirrup distributing bars for all beams, project them 6" beyond face of support. Securely wire all stirrups to longitudinal bars. Provide beam bar spacers to support steel at proper elevation. In bottoms of beams provide three spacers for beams less than 10'-0" span. Add one spacer for each additional 5'-0" or fraction thereof.



BAR DIAGRAM

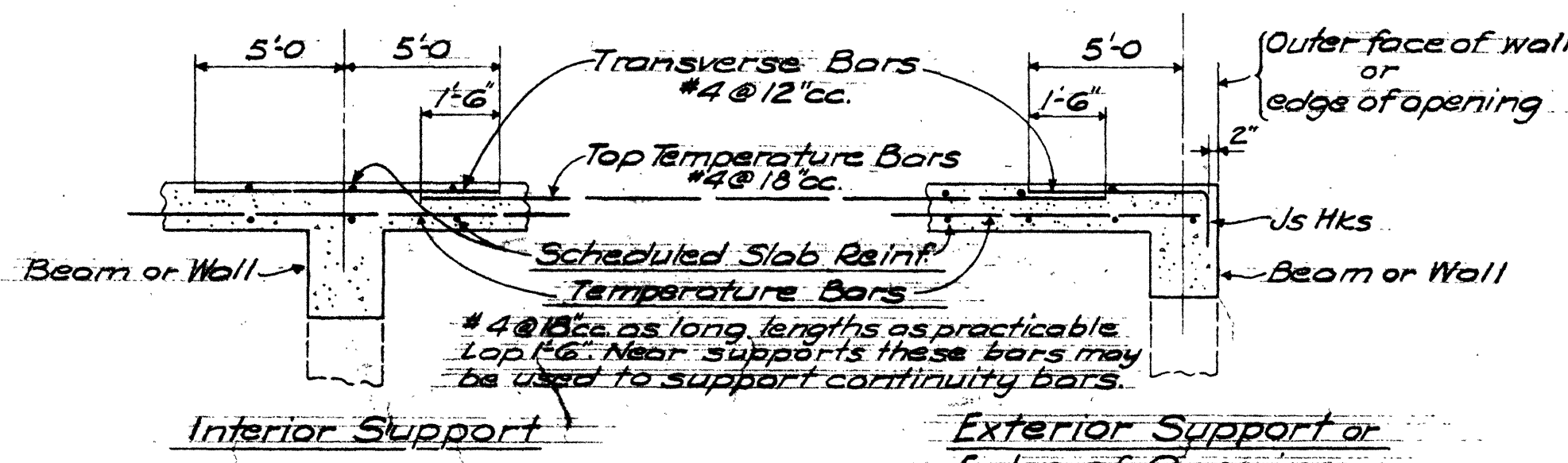
1. See General Notes, sheet S-7.
2. Dimensions a_1, e_1, a_2, e_2 are not necessarily the same for bars of different marks.
3. Span "L" as listed in the Schedule is for estimating purposes only. Verify all span dimensions with the latest issue of plans.



TYPICAL SLAB SECTION

SLAB NOTES

- BAR CHAIRS**
Shall be CONTINUOUS TYPE, sufficiently numerous and rigid to permit walking on the steel without displacement.
- SLABS IN GENERAL**
(a) Slabs are marked on framing plans thus: (Mark)
The arrows show direction of reinforcement.
(b) A & AI bars shall alternate.
(c) T, CL, CR bars
(d) At edge of all openings in slabs place 4-#5 bars thus: Bars to project 48 diameters beyond corners. Hook bars with "Jm" hook if 48 dia. projection cannot be obtained.



TRANSVERSE AND TEMPERATURE BARS
Transverse bars shall be used over all beams and walls which run parallel to scheduled slab reinforcement when slabs are scheduled in one direction only.

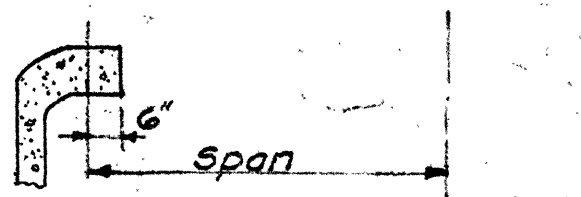
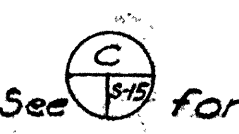
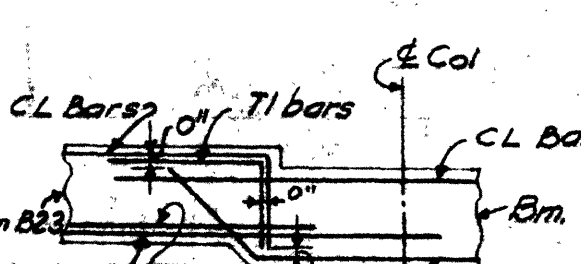
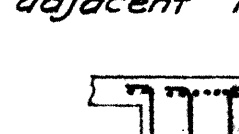
BEAM SCHEDULE

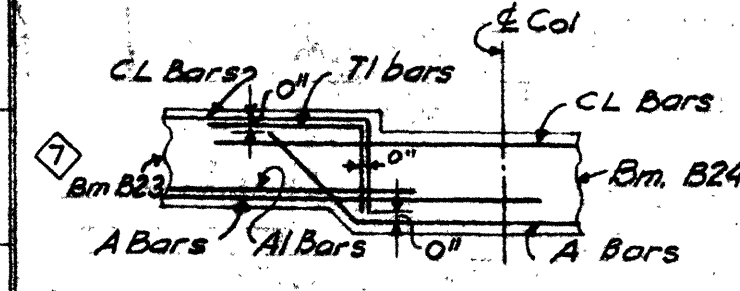
MARK	B	D	SPAN L	BARS										STIRRUPS		LOCATION LEFT END UNSYM. BEAMS	REMARKS
				MARK	NO	SIZE	LEFT END	END OF CL	RIGHT END	OF CL	SIZE	TYPE	SPACING EA END UNLESS NOTED				
B80	14	18	18-4 1/2	A	1	2	8	1/2	1-6	2-0	1-6	3	U	3@6", 3@9", then @12"	-	① At opngs. stop 2" cl for face conc. - bot bars hk Jm, top bars hk Js	
B81	18	18	23-4	A	1	2	8	1/2	1-6	2-0	1-6	3	do	do	-		
B82	14	24	22-11	A	1	2	8	1/2	1-6	2-0	1-6	3	do	2@6", 2@9", then @12"	Stair Wall	② Stop 2" cl for face conc.	
B83	10	24	Varies	A	1	2	8	1/2	1-6	2-0	1-6	3	do	do	Ext. Wall		
B84	14	18	18-4 1/2	A	1	2	8	1/2	1-6	2-0	1-6	4	do	10@6", then @12"	-	T bars A bars	
B85	12	18	8-4 1/2	A	1	2	8	1/2	1-6	2-0	1-6	3	do	2@6", 2@9", then @12"	Wall		
B86	30	21	25-6	A	1	2	8	1/2	1-6	2-0	1-6	3	do	4@6", 4@9", then @12"	Bms. B24 or B25		
B87	12	24	15-2 1/2	A	1	2	8	1/2	1-6	2-0	1-6	3	do	2@6", 2@9", then @12"	Wall		
B90	12	20	23-4	A	1	2	8	1/2	1-6	2-0	1-6	3	do	do	-		
B91	48	36	23-4	A	1	2	8	1/2	1-6	2-0	1-6	4	U	3@6", 3@9", then @12"	-		
B92	48	41	18-4 1/2	A	1	2	8	1/2	1-6	2-0	1-6	3	do	2@6", 2@9", then @12"	-		
B93	30	21	15-2 1/2	A	1	2	8	1/2	1-6	2-0	1-6	3	U	3@6", 3@9", then @12"	Wall		
B94	12	24	See Plan	A	1	2	8	1/2	1-6	2-0	1-6	3	do	2@6", 2@9", then @12"	Bm. B95		
B95	12	24	13-8	A	1	2	8	1/2	1-6	2-0	1-6	3	do	do	Wall		
B96 B96A	36 21	21	See Plan	A	1	2	8	1/2	1-6	2-0	1-6	3	do	4@6", 4@9", then @12"	Column	④ Offset at opngs.; see (G1)	

④ Offset at opngs.; see (G1)

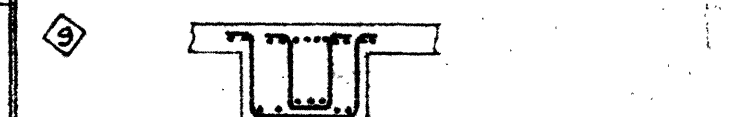
S-7

BEAM SCHEDULE

MARK	B	D	SPAN L	BARS						STIRRUPS		LOCATION		REMARKS		
				MARK	NO	SIZE	LEFT END	RIGHT END	SPACING EA END UNLESS NOTED	SIZE	TYPE	LEFT END	RIGHT END		UNSYM. BEAMS	
B1	12	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	U	2@6", 2@9", then @12"	WALL	◇ Extend 2-G into Conc. Wall
B2	12	24	17-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	COL LINE	
B3	14	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	◇ 
B4	12	24	15-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B5	14	24	26-0	A	1	2	8	1/2	1-0	2-0	1-0	3	do	3@6", 3@9", then @12"	Bm B4 or B46	◇ See  for details
B6	12	24	25-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	COL LINE	◇ Place bars in second layer, 2" clear above "A" bars.
B7	12	24	25-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	do	
B8	14	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B9	14	24	17-6	A	1	2	8	1/2	1-0	2-0	1-0	4	do	4@6", 4@9", then @12"	COL LINE	
B10	12	14	11-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	---	
B11	18	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B12	12	20	15-3	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B13	12	20	17-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	3@6", 3@9", then @12"	COL LINE	
B14	12	24	See Framg.	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	Ext. Wall	
B15	12	24	do	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	do	
B16	12	20	See Framg.	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	---	
B20	24	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	U	do	WALL	
B21	24	24	18-0	A	1	2	8	1/2	1-0	2-0	1-0	4	do	2@6", then @9"	---	
B22	24	24	24-0	A	1	2	8	1/2	1-0	2-0	1-0	5	do	do	Bm B21	
B23	24	24	23-5 1/2	A	1	2	8	1/2	1-0	2-0	1-0	4	do	do	Bm B22	◇ 
B24	30	24	20-6	A	1	2	8	1/2	1-0	2-0	1-0	4	U	6@6", 6@9", then @12"	Bm B23	
B25	30	24	20-6	A	1	2	8	1/2	1-0	2-0	1-0	4	do	do	Bm B24	◇ 
B26	24	24	15-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	U	3@6", 3@9", then @12"	WALL	
B27	24	24	26-0	A	1	2	8	1/2	1-0	2-0	1-0	4	do	2@6", then @9"	---	
B28	24	24	24-0	A	1	2	8	1/2	1-0	2-0	1-0	5	do	do	Bm B27	◇ Place top bars in slab where req'd, sim. to ◇.
B29	24	24	See Plan	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	---	



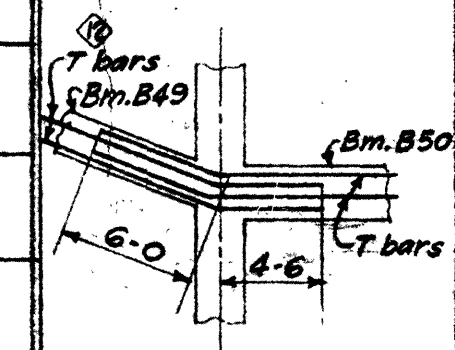
Lap 32 dia. with longest adjacent T, CL, or CR bar.



Place top bars in slab where req'd, sim. to 9.

BEAM SCHEDULE

Mark	B	D	L	BARS						STIRRUPS		LOCATION OF LEFT END UNSYMMETRICAL BEAMS	REMARKS Apply to all beams unless noted.			
				Mark	No	Size	Left End	Right End	Spacing	Size						
B30	24	24	17-5	A	1	2	8	1/2	1-0	2-0	1-0	4	U	2@6", 2@9", then @12"	WALL	
B31	24	24	20-1	A	1	2	8	1/2	1-0	2-0	1-3	3	do	do	COL 1	
B32	12	24	23-2 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B33	12	24	17-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	COL LINE	
B41	12	24	21-7 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	WALL	
B42	14	24	do	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	do	
B43	12	24	do	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	do	
B44	16	24	do	A	1	2	8	1/2	1-0	2-0	1-0	3	do	3@6", 3@9", then @12"	do	
B45	12	14	varies	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	do	
B46	12	24	13-7 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do	do	
B47	16	24	28-11	A	1	2	8	1/2	1-0	2-0	1-0	3	do	3@6", 3@9", then @12"	Stair Wall	
B48	20	30	28-11	A	1	2	8	1/2	1-0	2-0	1-0	4	U	4@6", 4@9", then @12"	do	
B49	20	24	27-8 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	U	2@6", 2@9", then @12"	WALL	
B50	30	24	18-0	A	1	2	8	1/2	1-0	2-0	1-0	4	do	6@6", 6@9", then @12"		
B51	30	24	24-0	A	1	2	8	1/2	1-0	2-0	1-0	5	do	2@6" then @9"	Bm B50	
B52	24	24	18-7 1/2	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	WALL	
B53	24	24	24-0	A	1	2	8	1/2	1-0	2-0	1-0	4	do	2@6" then @9"	Bm B27	
B54	24	24	18-8	A	1	2	8	1/2	1-0	2-0	1-0	4	do	do	Bm B53	
B55	24	24	19-4	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"		
B56	24	24	17-5	A	1	2	8	1/2	1-0	2-0	1-0	3	do	do		
B57	24	24	20-7	A	1	2	8	1/2	1-0	2-0	1-0	5	do	6@6", 6@9", then @12"	Bm B56	
B58	12	16	see Framg.	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"		
B59	12	20	15-3	A	1	2	8	1/2	1-0	2-0	1-0	3	do	2@6", 2@9", then @12"	WALL	
B60	12	20	17-6	A	1	2	8	1/2	1-0	2-0	1-0	3	do	3@6", 3@9", then @12"	COL LINE	
B61	20	24	3-5	A	1	2	8	1/2	1-0	2-0	1-0	3	do	@6" cc	do	place in wall



SLAB SCHEDULE

MARK	D	SPAN L	BARS						LOCATION OF LEFT END FOR UNSYM. SLABS	REMARKS Apply to all slabs unless noted
			MARK	Size	Spac.	LEFT END	RIGHT END	U		
1	G	varies	A T	4 8	12 12	1-0 2-0	as long as practicable; stagger splices; see 1); 3' ongs	as long as practicable; stagger splices; see 1); 3' ongs	—	1) Showing allowable splice locations: (a) support
2	G	varies	A ⁴⁾ T ⁴⁾	4 4	12 12	1-0 ²⁾ 3-0	—	—	1-0 ²⁾ 3-0	SLAB 4 or SLAB 11 or
3	G	varies	A T	4 4	10 12	1-0 2)	—	—	3) 3)	SLAB 1
4	G	See Plan	A CL	5 10	10 10	5) 5)	—	—	5) 3-0	WALL
5	G	varies	A T	5 12	9 9	3) 3)	—	—	1-0 2)	WALL
11	G	varies	A ⁴⁾ T ⁴⁾	5 5	12 12	1-0 3-6	—	—	1-0 3-6	—
12	G	9-7	A T	5 10	10 10	3) 3)	—	—	1-0 3-6	ELLY WALL
13	G	See Framing	A T	4 18	12 13 only	3) 3)	—	—	1-0 3)	EDGE OPNG.
14	G	varies	A T	4 12	9 9	1-0 3)	as long as practicable; stagger splices; see 1); 3' ongs	as long as practicable; stagger splices; see 1); 3' ongs	—	4) At opngs - see 3). 5) See (B) (a)
15	G	Varies	A T	4 10	4 9	1-0 3)	—	—	3) 3)	SLAB 16
16	G	Varies	A	4	12	1-0	1-0 w/m top bars supplied by adj span	—	0-3 w/m	SLAB 15 or SLAB 17
17	B	See Framing	A ⁴⁾ T ⁴⁾	4 4	12 12	3) 3)	—	—	1-0 2)	long at stair #1
18	B	5-0 1/2	A T	4 12	4 12	3) 2)	—	—	3) 3)	SLAB 1
19	B	varies	T	5 6	bars	4-0	—	—	3)	SLAB 18
21	S	varies	A T	4 12	12	1-0 3-0	as long as practicable; stagger splices; see 1); 3' ongs	as long as practicable; stagger splices; see 1); 3' ongs	—	—
22	S	varies	A ⁴⁾ T ⁴⁾	4 4	12 12	1-0 3-0	—	—	3) 3)	INTERIOR WALL
23	G	See Plan	A T	4 6	12 12	1-0 3)	—	—	3) 3)	SLAB 24
24	G	do	A CL CR	4 4 24	9 24	1-0 4-6	—	—	3) 3-6	SLAB 23
25	G	varies	A T	5 4	6 12	3) 3)	—	—	1-0 3-0	South wall

1) Showing allowable splice locations:
(a) support

2) Lap 32 dia. with longest adj. CL, CR, or T bar.

3) Stop 2" cl. for face conc. bottom bars h/k Jm; top bars h/k Js.

4) At opngs - see 3).

5) See (B) (a)

RECORD PROFESSIONAL ENGINEER
WILLIAM W. GIBBS
1940
STATE OF THE STATE OF NEW YORK