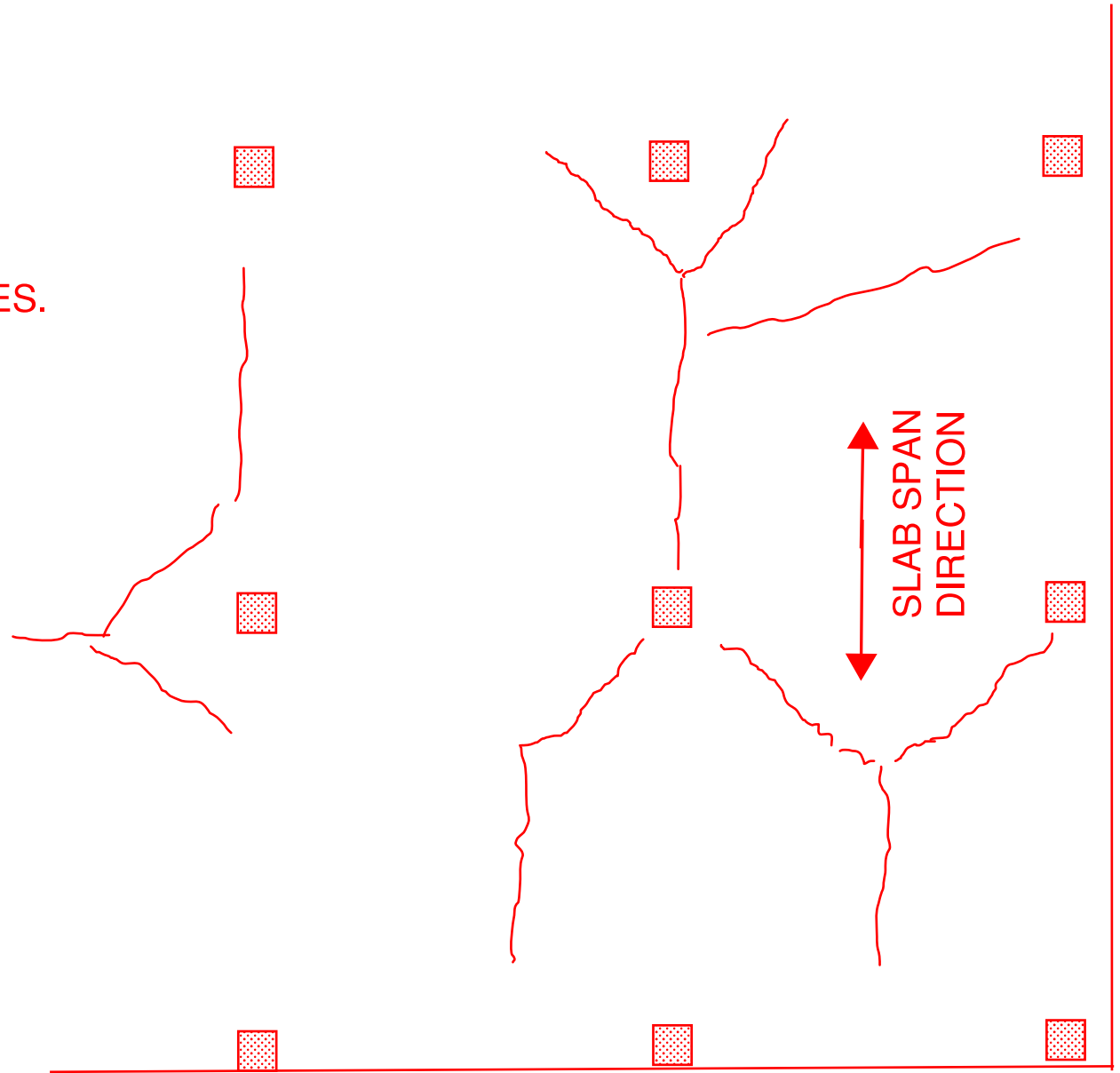


CRACK PATTERN UNDER TILES.
ACTUAL CRACKS EXTENDED
FURTHER UNDER TILES.

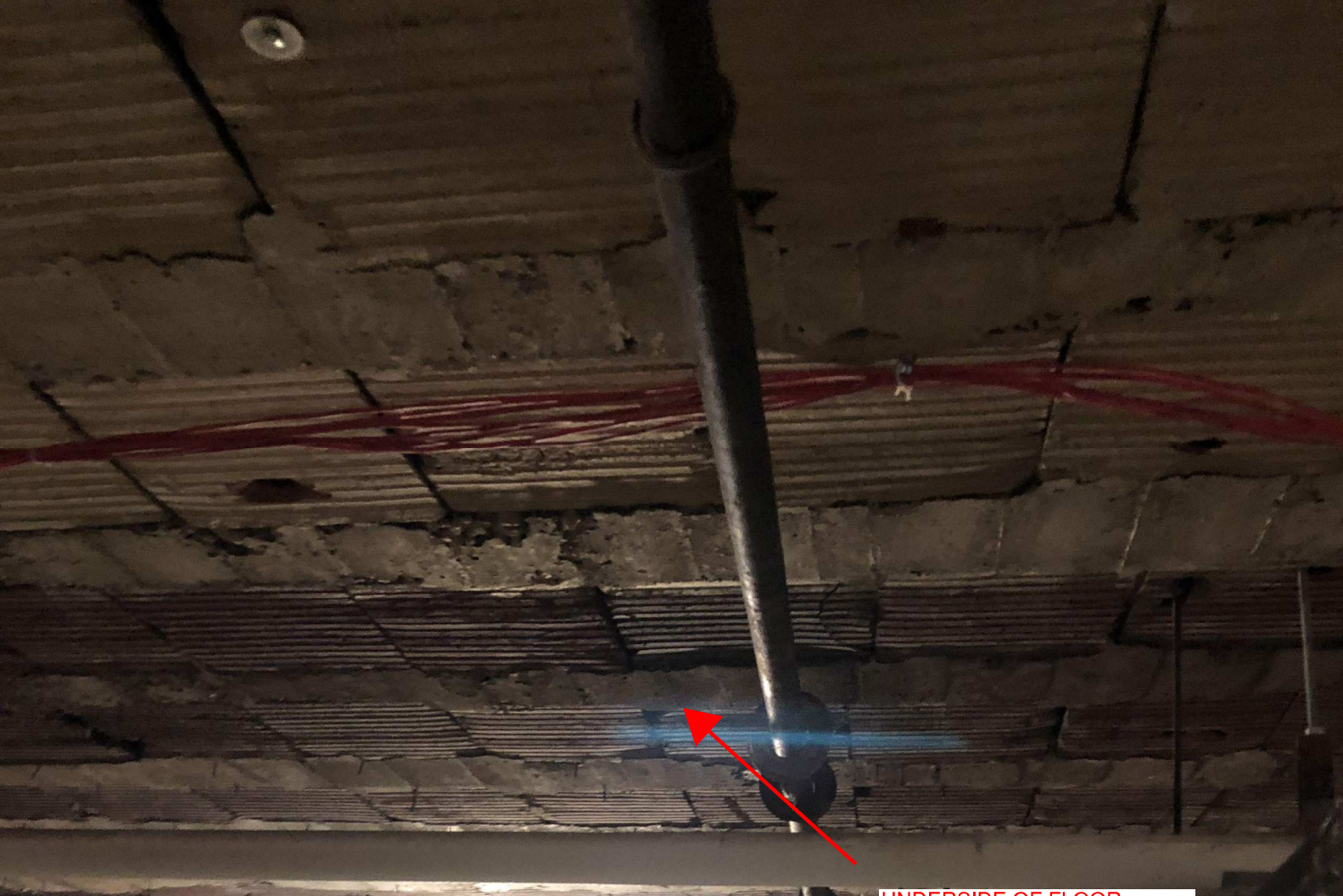








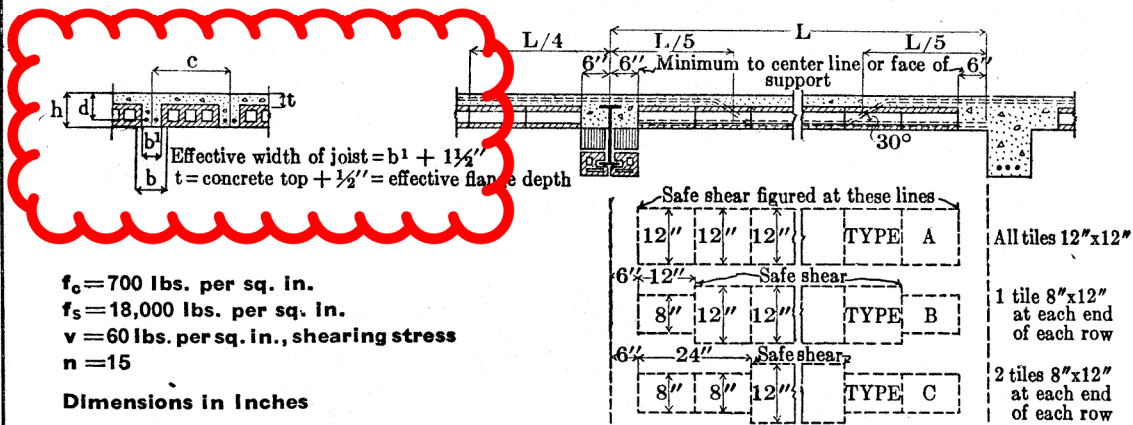
**AFTER
ROUTING
AND EPOXY**



UNDERSIDE OF FLOOR
SHOWING CLAY TILES AND
INTERMEDIATE CONCRETE
BEAMS



TILE AND ONE-WAY CONCRETE JOIST SLABS

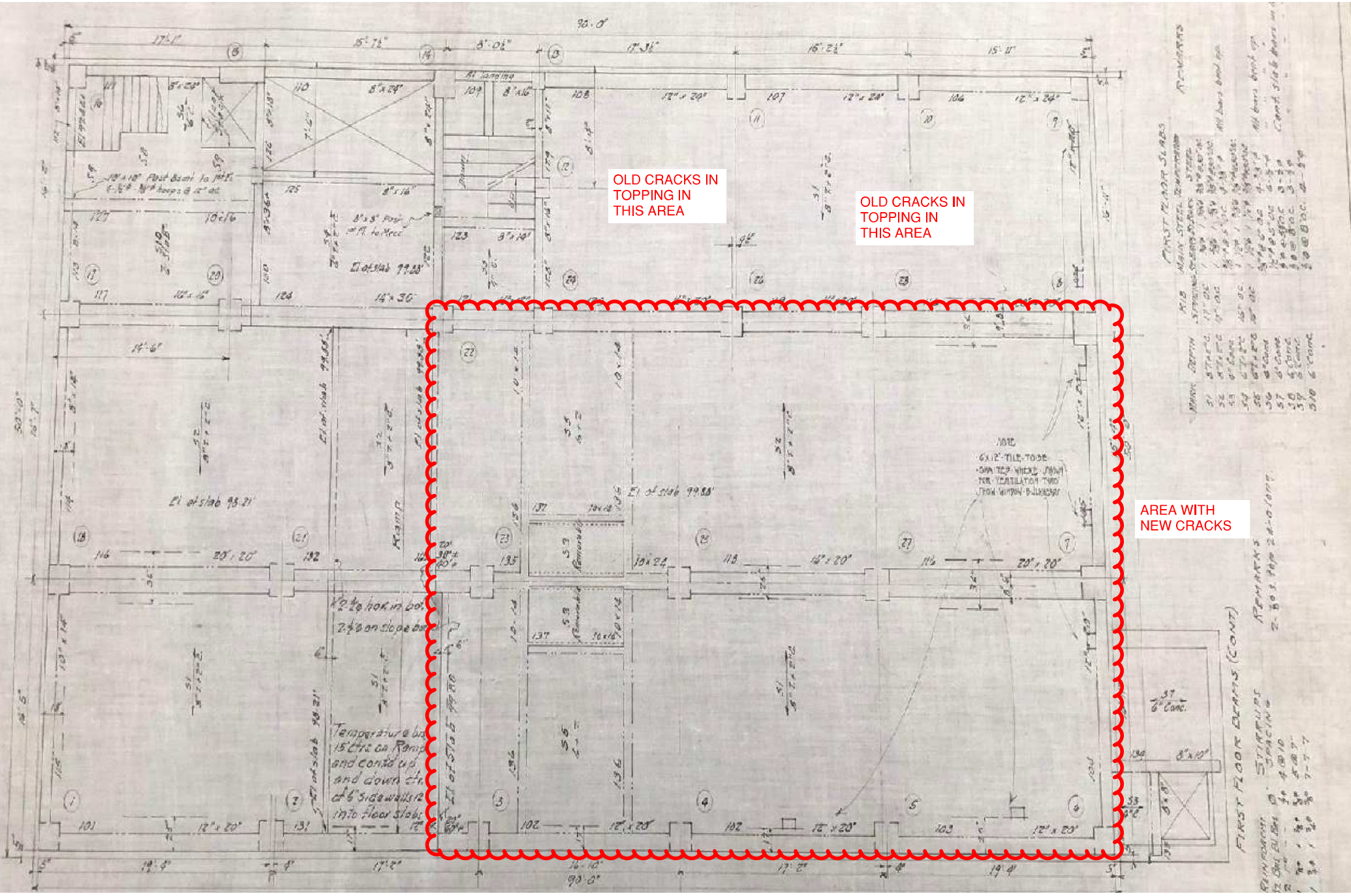


$f_c = 700$ lbs. per sq. in.
 $f_s = 18,000$ lbs. per sq. in.
 $v = 60$ lbs. per sq. in., shearing stress
 $n = 15$

Dimensions in Inches

Total Depth, h	Effective Flange Depth, t	Top of Slab to Rods, d	Width of Concrete in Joist, b ¹	Center to Center of Joists, c	Weight of Slab, Lbs. per Sq. Ft.	Max. Resisting Moment, Ft.-Lbs.	Area of Steel Reinf., Sq. In.	Round Bars (*Square) b, Bent s, Straight	Total Shear in Lbs. for Each Joist	
									Type A Construction	Type B & C Construction
3 + 1 1/2	2	3 1/2	4	16	40	1855	.41	2 - 1/2	1030	1750
4 + 1 1/2	2	4 1/2	4	16	44	3070	.52	1 - 1/2 * b 1 - 1/2 * s	1300	2250
5 + 1 1/2	2	5 1/4	4 1/2	16 1/2	53	4300	.63	1 - 5/8 b 1 - 5/8 s	1660	2760
6 + 1 1/2	2	6 1/4	4 1/2	16 1/2	56	5954	.73	1 - 3/4 b 1 - 5/8 s	1970	3285
6 + 2	2 1/2	6 3/4	5	17	62	7285	.82	1 - 3/4 b 1 - 3/4 s	2310	3730
7 + 2	2 1/2	7 3/4	5	17	71	8900	.88	1 - 3/4 b 1 - 3/4 s	2560	4140
7 + 2 1/2	3	8 1/4	5	17	76	10900	1.00	1 - 7/8 b 1 - 3/4 s	2820	4550
8 + 2	2 1/2	8 1/2	5	17	76	11100	1.00	1 - 7/8 b 1 - 3/4 s	2910	4700
8 + 2 1/2	3	9	5 1/2	17 1/2	82	13220	1.12	1 - 7/8 b 1 - 3/4 s	3320	5200
9 + 2	2 1/2	9 1/2	5 1/2	17 1/2	82	13660	1.10	1 - 7/8 b 1 - 3/4 s	3500	5500
9 + 2 1/2	3	10	5 1/2	17 1/2	88	15890	1.21	1 - 7/8 b 1 - 7/8 s	3690	5800
10 + 2	2 1/2	10 1/2	5 1/2	17 1/2	89	15880	1.15	1 - 7/8 b 1 - 7/8 s	3870	6080
10 + 2 1/2	3	11	5 1/2	17 1/2	94	18600	1.29	1 - 1 b 1 - 7/8 s	4050	6370
12 + 2	2 1/2	12 1/2	5 1/2	17 1/2	100	20350	1.24	1 - 1 b 1 - 7/8 s	4600	7230
12 + 2 1/2	3	13	5 1/2	17 1/2	106	23950	1.40	1 - 1 b 1 - 7/8 s	4800	7530

DOES NOT MATCH DWGS



OLD CRACKS IN TOPPING IN THIS AREA

OLD CRACKS IN TOPPING IN THIS AREA

AREA WITH NEW CRACKS

FIRST FLOOR BEAMS (CONT)

MARK	DEPTH	REMARKS
51	5" CONC	11" OC
52	5" CONC	11" OC
53	5" CONC	11" OC
54	5" CONC	11" OC
55	5" CONC	11" OC
56	5" CONC	11" OC
57	5" CONC	11" OC
58	5" CONC	11" OC
59	5" CONC	11" OC
60	5" CONC	11" OC

FIRST FLOOR BEAMS (CONT)

REMARKS

2. 50's top 2'-0" to 1'-0"

51
5" CONC

52
5" CONC

53
5" CONC

54
5" CONC

55
5" CONC

56
5" CONC

57
5" CONC

58
5" CONC

59
5" CONC

60
5" CONC

Temperature on
15°C on Ramp
and cond up
and down ch.
at 6' sidewalks
into floor slabs

6x12 TILE TO BE
LAIN ON WHEEL JOINT
FOR VENTILATION TWO
FEET WITHIN BULLDOZE

El. of slab 98.21

El. of slab 99.88

El. of slab 99.88

El. of slab 99.88

57
5" CONC

53
5" CONC

10' x 10' Post beam to post
6" x 6" top hoops @ 12" OC

8" x 8" Post
to R. to Merc

El. of slab 99.88

FIRST FLOOR BEAMS (CONT)

REMARKS

11' x 10' Post beam to post
6" x 6" top hoops @ 12" OC

8" x 8" Post
to R. to Merc

El. of slab 99.88

10' x 10' Post beam to post
6" x 6" top hoops @ 12" OC

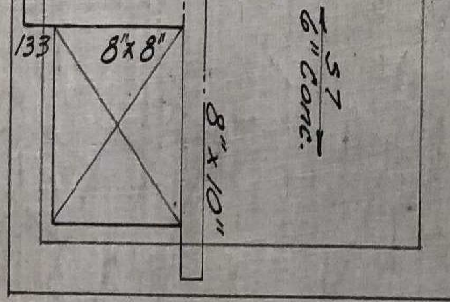
8" x 8" Post
to R. to Merc

El. of slab 99.88

10' x 10' Post beam to post
6" x 6" top hoops @ 12" OC

8" x 8" Post
to R. to Merc

El. of slab 99.88



FIRST FLOOR BEAMS (CONT.)

MARK	SIZE	REINFORCMT.			STIRRUPS SPACING	REMARKS
		ST. BRs.	BT. BRs.	Ø		
135	10x24	2	1"	--	1/2" 4@10	2-3/8" top 24'-0" long.
136	10x14	1	7/8"	1 3/8"	3/8" 5@7"	
137	10x14	1	3/4"	1 3/4"	3/8" 7-7-7	

FIRST FLOOR SLABS

MARK	DEPTH	RIB SPACING	MAIN STEEL		TEMPERATURE STEEL	REMARKS
			ST. BARS	BT. BARS		
51	8" T. + 2" C.	17" O.C.	1 3/4"	1 5/8"	3/8" Ø @ 30" O.C.	
52	8" T. + 2" C.	17" O.C.	1 5/8"	1 5/8"	3/8" Ø @ 30" O.C.	
53	4" Conc.		3/8" Ø @ 5" O.C.		4-3/8" Ø	All bars bent up.
54	6" T. + 2" C.	16" O.C.	1 1/2"	1 3/8"	3/8" Ø @ 30" O.C.	
55	6" T. + 2" C.	16" O.C.	1 1/2"	1 1/2"	3/8" Ø @ 30" O.C.	
56	6" Conc.		3/8" Ø @ 6" O.C.		4-3/8" Ø	All bars bent up.
57	6" Conc.		1/2" Ø @ 5" O.C.		6-1/2" Ø	" " " "
58	6" Conc.		1/2" Ø @ 5 1/2" O.C.		3-1/2" Ø	Cont. slab bars in top
59	6" Conc.		1/2" Ø @ 8" O.C.		3-1/2" Ø	" " " "
510	6" Conc.		1/2" Ø @ 8" O.C.		4-1/2" Ø	" " " "