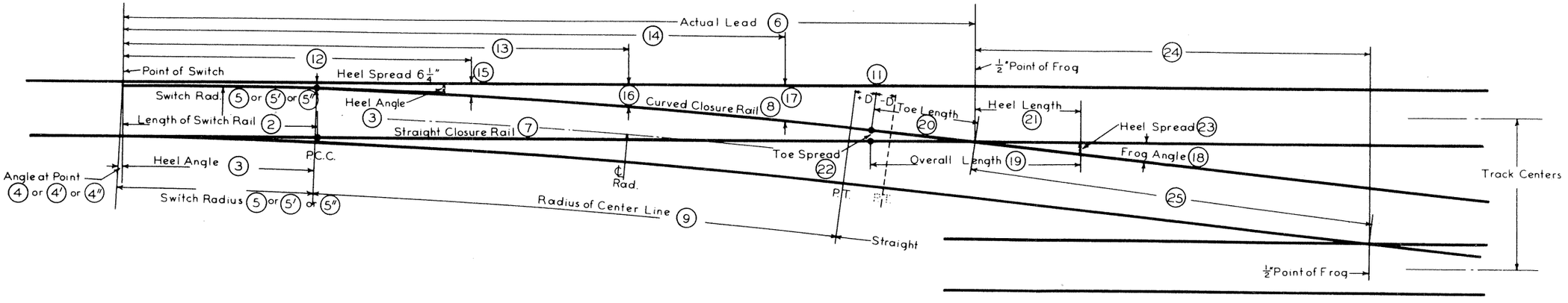

TURNOUT AND CROSSOVER DATA

	Properties of Curved Switches									Closure Distance		Lead Curve			Gage Line Offsets						Properties of Frogs							Data for Crossover: 13'-0" Track Centers		For change of 1'-0" in Track Centers	
Col. (1)	Col. (2)	Col. (3)	Col. (4)	Col. (5)	Col. (4')	Col. (5')	Col. (4")	Col. (5")	Col. (6)	Col. (7)	Col. (8)	Col. (9)	Col. (10)	Col. (11)	Col. (12)	Col. (13)	Col. (14)	Col. (15)	Col. (16)	Col. (17)	Col. (1)	Col. (18)	Col. (19)	Col. (20)	Col. (21)	Col. (22)	Col. (23)	Col. (24)	Col. (25)		
Frog Number	Length of Switch Rail	Heel Angle	Point 0" Thick Angle at Point PT. DETAIL NO. 5100	Switch Radius PT. DETAIL NO. 5100	Point 1/8" Thick Angle at Point PT. DETAIL NO. 6100	Switch Radius PT. DETAIL NO. 6100	Point 1/4" Thick Angle at Point PT. DETAIL NO. 4000	Switch Radius PT. DETAIL NO. 4000	Actual Lead	Straight Closure Rail	Curved Closure Rail	Radius of Center Line	Degree of Curve	Distance D							Frog Number	Frog Angle	Overall Length	Toe Length	Heel Length	Toe Spread	Heel Spread	Straight Track	Crossover Track	Straight Track	Crossover Track
	Ft. In.	Deg.Min.Sec.	Dg.Min.Sc	Feet	Deg.Min.Sec.	Feet	Deg.Min.Sec.	Feet	Ft. In.	Ft. In.	Ft. In.	Feet	Deg.Min.Sec.	Feet	Ft. In.	Ft. In.	Ft. In.	Inches	Inches	Ft. In.		Deg.Min.Sec.	Ft. In.	Ft. In.	Ft. In.	Inches	Inches	Ft. In.	Ft. In.	Ft. In.	Ft. In.
5	13-0	2-54-00	1-41-31	616.55	1-36-00	572.96	1-30-30	535.22	44-6 1/2	28-0	28-3 7/8	188.10	30-49-49	0.00	20-0	27-0	34-0	12 1/16	21	2-9 1/8	5	11-25-16	9-0	3-6 1/2	5-5 1/2	7 15/16	13 9/16	16-10 5/8	18-1 7/8	4-11 7/16	5-0 5/8
6	13-0	2-54-00	1-41-31	616.55	1-36-00	572.96	1-30-30	535.22	49-9	33-0	33-3 1/4	283.88	20-17-20	+0.17	21-3	29-6	37-9	12 11/16	22 1/16	2-10 1/4	6	9-31-38	10-0	3-9	6-3	7	13	20-5 1/2	21-6 1/2	5-11 1/2	6-0 1/2
7	13-0	2-54-00	1-41-31	616.55	1-36-00	572.96	1-30-30	535.22	54-8 1/2	37-0	37-2 7/8	409.77	14-01-02	-0.68	22-0	31-0	40-0	12 15/16	21 15/16	2-9 3/8	7	8-10-16	12-0	4-8 1/2	7-3 1/2	7 9/16	13	24-0 3/8	24-11 5/8	6-11 9/16	7-0 7/16
8	13-0	2-54-00	1-41-31	616.55	1-36-00	572.96	1-30-30	535.22	58-11 1/8	40-10 1/8	41-0 3/8	550.75	10-25-03	0.00	23-3	33-6	43-9	13 3/8	23 5/8	2-11 3/8	8	7-09-10	13-0	5-1	7-11	7 1/8	12 3/8	27-7 1/8	28-4 7/8	7-11 5/8	8-0 3/8
9	19-6	1-59-15	1-04-24	1222.17	1-00-45	1145.92	0-57-04	1078.04	74-1 1/4	48-2 3/4	48-5	632.15	9-04-23	0.00	31-6	43-6	55-6	12 5/8	21 9/16	2-9 9/16	9	6-21-35	16-0	6-4 1/2	9-7 1/2	8	13 5/16	31-1 5/8	31-10 3/8	8-11 11/16	9-0 5/16
10	19-6	1-59-15	1-04-24	1222.17	1-00-45	1145.92	0-57-04	1078.04	78-11	53-0	53-2	806.09	7-06-45	+0.44	32-9	46-0	59-3	13 1/16	22 1/2	2-10 9/16	10	5-43-29	16-6	6-5	10-1	7 3/16	12 5/8	34-8 1/8	35-3 7/8	9-11 11/16	10-0 5/16
11	19-6	1-59-15	1-04-24	1222.17	1-00-45	1145.92	0-57-04	1078.04	83-6	57-0	57-1 7/8	1009.34	5-40-44	+0.34	33-9	48-0	62-3	13 3/8	22 15/16	2-10 15/16	11	5-12-18	18-8 1/2	7-0	11-8 1/2	7 1/8	13 1/4	38-2 1/2	38-9 1/2	10-11 3/4	11-0 1/4
12	19-6	1-59-15	1-04-24	1222.17	1-00-45	1145.92	0-57-04	1078.04	87-3 1/2	60-0	60-1 3/4	1205.02	4-45-22	+1.47	34-6	49-6	64-6	13 5/8	23 1/4	2-11 1/8	12	4-46-19	20-4	7-9 1/2	12-6 1/2	7 5/16	13 1/16	41-8 3/4	42-3 1/4	11-11 3/4	12-0 1/4
14	26-0	1-27-00	0-50-44	2464.55	0-48-00	2291.83	0-45-14	2140.01	108-7 1/2	74-0	74-1 1/2	1576.40	3-38-07	+1.36	44-6	63-0	81-6	13 1/8	22 5/8	2-10 3/4	14	4-05-27	23-7	8-7 1/2	14-11 1/2	6 7/8	13 5/16	48-9 1/4	49-2 13/16	13-11 13/16	14-0 1/4
15	26-0	1-27-00	0-50-44	2464.55	0-48-00	2291.83	0-45-14	2140.01	113-5	78-0	78-1 3/16	1872.90	3-03-34	+0.60	45-6	65-0	84-6	13 3/8	23	2-11	15	3-49-06	24-4 1/2	9-5	14-11 1/2	7	12 7/16	52-3 7/16	52-8 3/8	14-11 13/16	15-0 3/16
16	26-0	1-27-00	0-50-44	2464.55	0-48-00	2291.83	0-45-14	2140.01	118-5	83-0	83-1 1/4	2240.84	2-33-26	-0.27	46-9	67-6	88-3	13 11/16	23 1/2	2-11 9/16	16	3-34-47	26-0	9-5	16-7	6 9/16	12 15/16	55-9 5/8	56-2 1/2	15-11 13/16	16-0 3/16
18	39-0	1-04-30	0-27-19	3605.70	0-25-30	3437.74	0-23-39	3282.02	147-0 1/2	97-0	97-1 1/8	2622.45	2-11-06	+0.56	63-3	87-6	111-9	13 1/16	22 9/16	2-10 3/4	18	3-10-56	29-3	11-0 1/2	18-2 1/2	6 7/8	12 5/8	62-9 7/8	63-2 3/16	17-11 13/16	18-0 3/16
20	39-0	1-04-30	0-27-19	3605.70	0-25-30	3437.74	0-23-39	3282.02	156-0 1/2	106-0	106-1	3329.91	1-43-15	+2.03	65-6	92-0	118-6	13 1/2	23 1/4	2-11 9/16	20	2-51-51	30-10 1/2	11-0 1/2	19-10	6 1/8	12 3/8	69-10	70-2	19-11 7/8	20-0 1/8