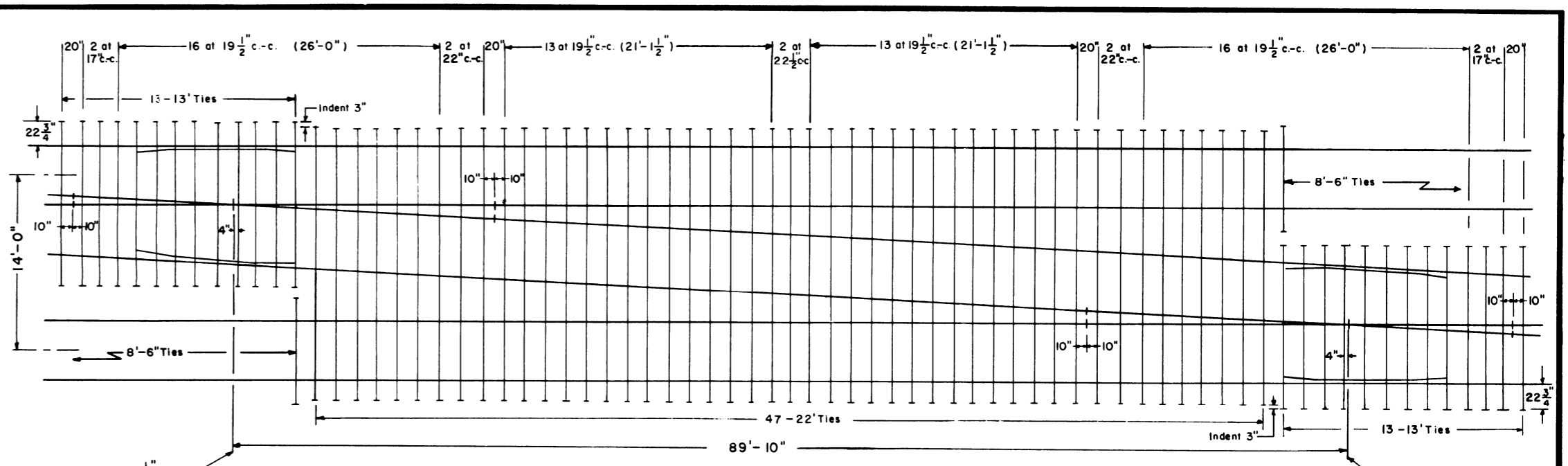
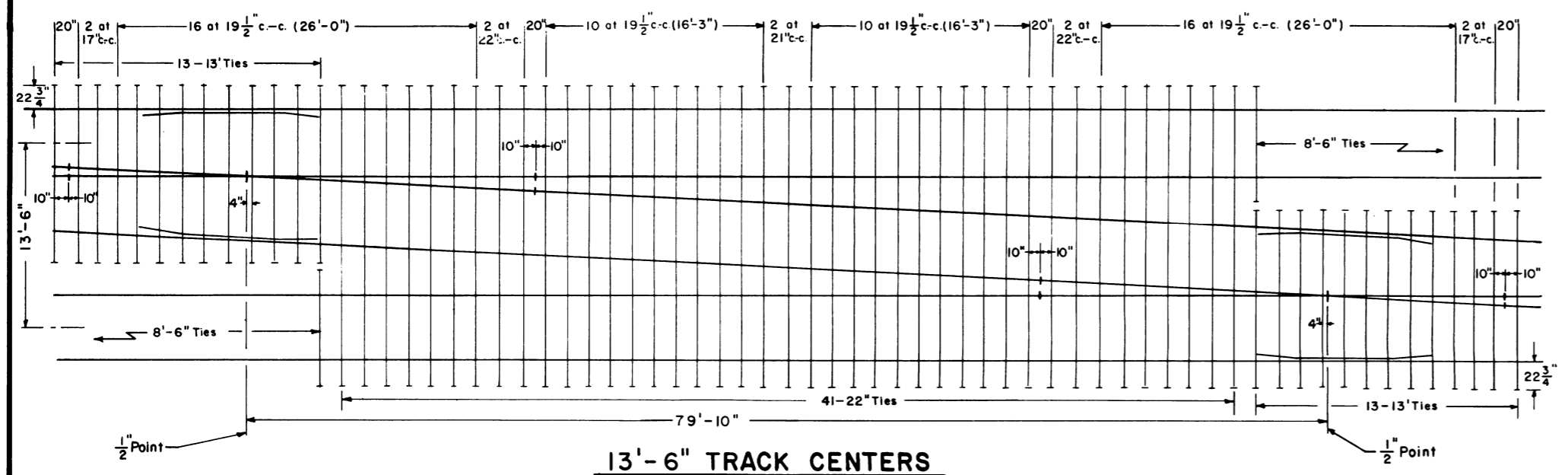


**13'-0" TRACK CENTERS**



**14'-0" TRACK CENTERS**



**13'-6" TRACK CENTERS**

Frog Angle = 2°-51'-51"  
 Toe Length = 13'-1"  
 Heel Length = 21'-1"  
 Total Length = 34'-2"

For turnout see C.R. Plan 73195-().

For every 1" change in track centers, the horizontal distance between 1/2" frog points will increase 20."

**SWITCH TIMBER FOR A CROSSOVER**

TRACK CENTERS	TIMBER LENGTHS						
	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	21'-0"	22'-0"
ACCT. REF. NOS	05-61500	05-062508	05-063506	05-064504	05-065501	05-071509	05-072507
13'-0"	64	52	24	24	⊕ 32	35	—
13'-6"	"	"	"	"	⊕ 32	—	43
14'-0"	"	"	"	"	⊕ 34	—	47

⊕ Includes 4 headblock ties

**CONRAIL 73191-A**

STANDARD  
**No. 20 CROSSOVER**  
 TIE LAYOUT FOR 13', 13'-6" and 14' TRACK CENTERS  
 132 R.E. RAIL  
 JUNE, 1979

*R.H. Smith*  
Chief Engineer - Maintenance of Way
*B.G. Gordon*  
Chief Engineering Officer