

**Key**

$$\begin{aligned}\Delta_c &= 21^\circ \text{ left} && (1) \\ D &= 1.5^\circ && (2) \\ L_s &= 1000.00' && \end{aligned}$$

$$\begin{aligned}\text{Entering Tangent} &= N60^\circ 00' 00'' E \\ \text{Width of Traveled Way (TW)} &= 150.00' \text{ (total)}\end{aligned}$$

## Full Spiral Information:

$$\begin{aligned}L_c &= \underline{1400.00} && (3) \\ R_c &= \underline{3819.72} && (4) \\ \Delta_s &= \underline{7-30-00} && (5) \\ \text{Defl.} &= \underline{2-29-59} && (6) \\ L_s &= \underline{1000.00} && (7) \\ TD_s &= \underline{998.29} && (8) \\ TO_s &= \underline{43.58} && (9) \\ LC_s &= \underline{999.24} && (10) \\ p &= \underline{10.90} && (11) \\ q &= \underline{499.71} && (12) \\ T_s &= \underline{1744.36} && (13)\end{aligned}$$

$$TS = 78+90 \quad 5,000 \text{ N} \quad \text{and} \quad 10,000 \text{ E} \quad (21)$$

$$\begin{aligned}\text{Find:} \quad SC &= \underline{88+90} && \underline{5536.8852} && \underline{10842.7527} && (22) \\ RP &= && \underline{8567.2717} && \underline{8517.4554} && (23) \\ CS &= \underline{102+90} && \underline{6571.4742} && \underline{11774.3009} && (24) \\ ST &= \underline{112+90} && \underline{7465.7301} && \underline{12220.1533} && (25) \\ PI &= && \underline{5872.1793} && \underline{11510.6588} && (26)\end{aligned}$$

$$\text{And} \quad 85+00 \text{ CL} \quad \underline{5313.5032} \quad \underline{10523.1991} \quad (37)$$

$$85+00 \text{ outside} \quad \underline{5250.4542} \quad \underline{10563.8170} \quad (38)$$

$$103+00 \text{ CL} \quad \underline{6580.0075} \quad \underline{11779.5148} \quad (47)$$

$$103+00 \text{ inside} \quad \underline{6619.0281} \quad \underline{11715.4649} \quad (48)$$

## Points on Spirals:

	85+00	103+00	+
$\alpha$	$= \underline{2-47-27} (31)$	$\underline{7-21-03} (41)$	<u>          </u>
Defl.	$= \underline{0-55-49} (32)$	$\underline{2-27-00} (42)$	<u>          </u>
L	$= \underline{610.00} (33)$	$\underline{990.00} (43)$	<u>          </u>
TD	$= \underline{609.86} (34)$	$\underline{988.37} (44)$	<u>          </u>
TO	$= \underline{9.90} (35)$	$\underline{42.29} (45)$	<u>          </u>
SC	$= \underline{609.94} (36)$	$\underline{989.28} (46)$	<u>          </u>