SPIRAL WORKSHEET

By _____ DATE _____

Chk. By _____ DATE _____

* CURVE NO. _____ DESIGN SPEED _____ e_{max} = _____

* PI AT ℄ STA _____ OFFSET _____

℄ AZIMUTH BACK = _____

℄ AZIMUTH AHEAD = _____

* Δ = _____

* D_c = _____

* L_s = _____

* R_c = _____

* $\Theta_s = \frac{L_s D_c}{200}$ = _____ = _____

$\Delta_c = \Delta - 2\Theta_s$ = _____ = _____

* $L_c = \frac{100\,\Delta_c}{D_c}$ = _____ = _____

FOLLOWING VALUES = COEF. (from Table Below) X L_s

P = _____ X _____ = _____

k = _____ X _____ = _____

* X_c = _____ X _____ = _____

* Y_c = _____ X _____ = _____

* L.T. = _____ X _____ = _____

* S.T. = _____ X _____ = _____

$\cos\frac{\Delta}{2}$ = _____ $\tan\frac{\Delta}{2}$ = _____

* $E_s = \frac{R_c + P}{\cos \Delta/2} - R_c$ = _____ - _____

* $T_s = (R_c+P)\tan\frac{\Delta}{2} + K$ = _____ = _____

* T.S. ℄ STA = _____ a+℄ STA _____ Offset _____

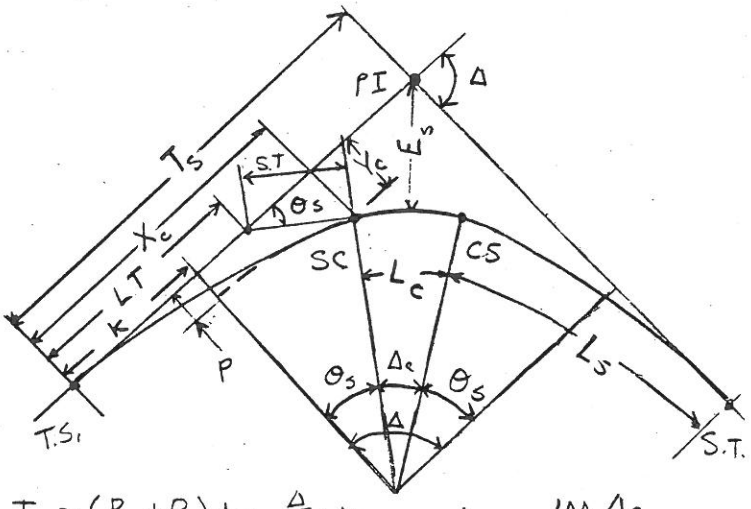
* SC ℄ STA = _____ a+℄ STA _____ Offset _____

* C.S. ℄ STA = _____ a+℄ STA _____ Offset _____

* S.T. ℄ STA = _____ a+℄ STA _____ Offset _____

* - ALL ITEMS ARE TO BE SHOWN ON THE CONTRACT PLANS

Θ_s	P	k	X_c	Y_c	L.T.	S.T.
0°	.00000	.50000	1.00000	.00000	.66667	.33333
1°	.00146	.49999	.99997	.00582	.66668	.33334
2°	.00291	.49998	.99988	.01163	.66671	.33337
3°	.00435	.49995	.99973	.01745	.66676	.33342
4°	.00581	.49992	.99951	.02326	.66684	.33349
5°	.00727	.49987	.99924	.02907	.66693	.33358
6°	.00872	.49982	.99890	.03488	.66705	.33368
7°	.01018	.49975	.99851	.04068	.66719	.33381
8°	.01163	.49967	.99805	.04648	.66735	.33395
9°	.01308	.49959	.99754	.05227	.66753	.33412
10°	.01453	.49949	.99696	.05805	.66773	.33430
11°	.01598	.49939	.99632	.06383	.66796	.33451
12°	.01743	.49927	.99562	.06959	.66821	.33473
3°	.01887	.49914	.99486	.07535	.66847	.33498
14°	.02032	.49901	.99405	.08110	.66877	.33524
15°	.02176	.49886	.99317	.08684	.66908	.33553
16°	.02320	.49870	.99223	.09257	.66941	.33583



$T_s = (R_c+P)\tan\frac{\Delta}{2} + K$

$L_c = \frac{100\,\Delta_c}{D_c}$

$E_s = \frac{R_c+P}{\cos\Delta/2} - R_c$

$\Delta_c = \Delta - \frac{L_s D_c}{100}$

$\Theta_s = \frac{L_s D_c}{200}$

$\Delta_c = \Delta - 2\Theta_s$