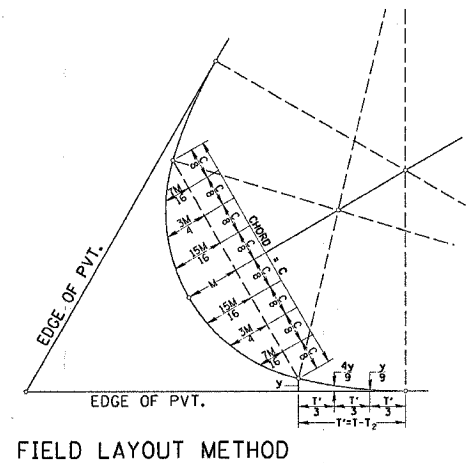


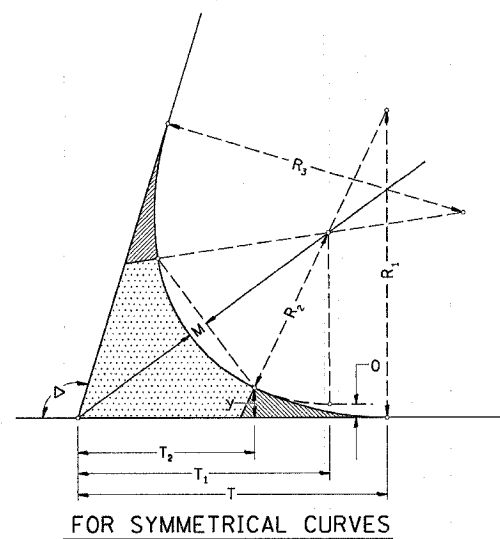
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
549	11GRS-1	OGLE	593	247
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

### THREE CENTER CURVE DATA



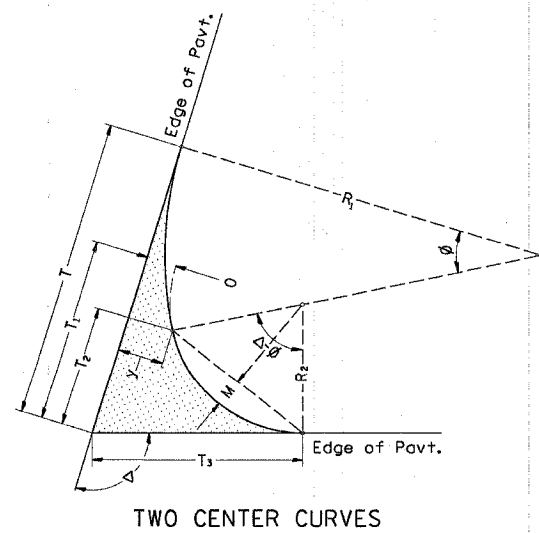
#### SYMMETRICAL CURVES

CURVE #								
R <sub>1</sub>								
R <sub>2</sub>								
R <sub>3</sub>								
O								
Δ								
T								
T <sub>1</sub>								
T <sub>2</sub>								
T'								
y								
$\frac{4y}{9}$								
$\frac{y}{9}$								
M								
$\frac{15M}{16}$								
$\frac{3M}{4}$								
$\frac{7M}{16}$								
C								



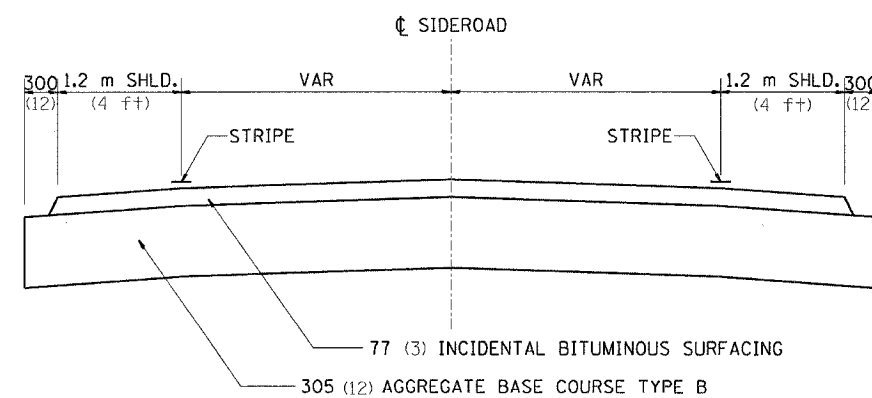
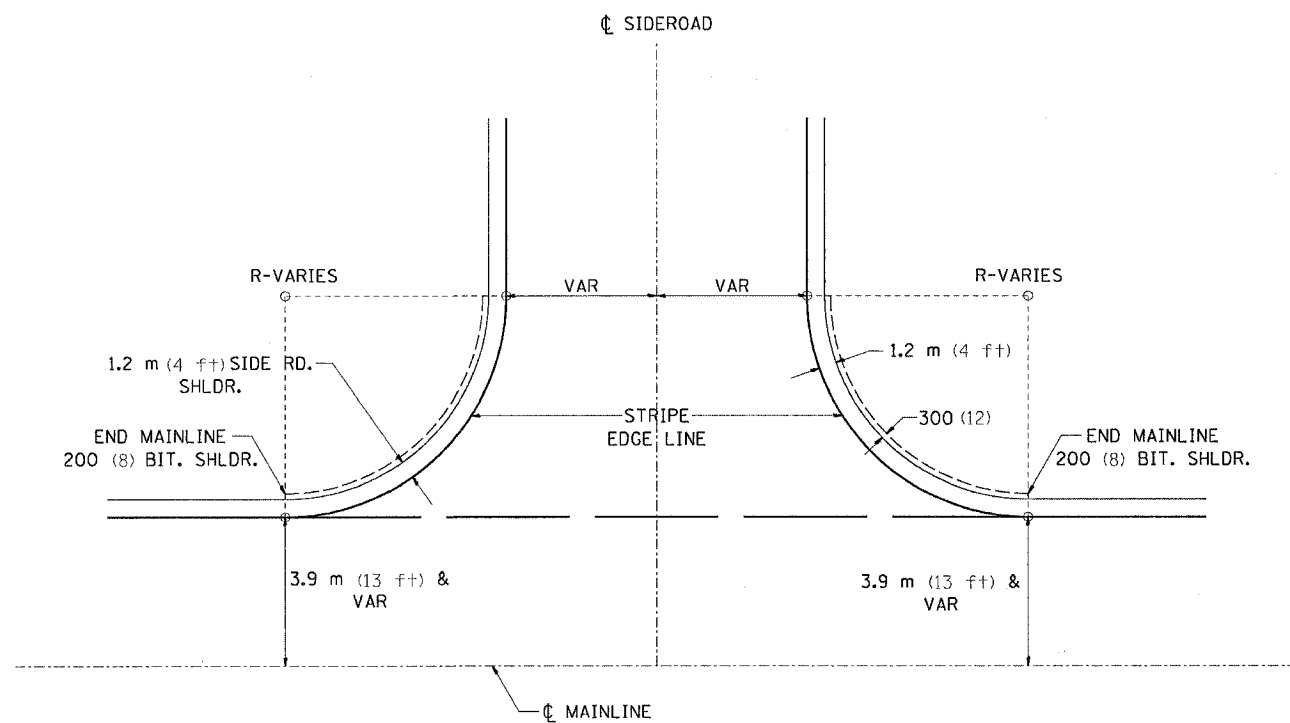
NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

### TWO CENTER CURVE DATA



CURVE #	1	2	3	4	5	6	7	8
R <sub>1</sub>	160	160	160	200	200	240	400	400
R <sub>2</sub>	40	40	40	45	50	40	35	70
O	10	10	10	10	8	7	8	8
Δ	88.5	90	88.8	89.1	87.7	60	101.26	101.62
T	86.66	87.96	86.92	98.91	96.06	71.5	120.25	159.73
T <sub>1</sub>	38.70	40	38.96	44.14	47.73	19.05	44.25	87.5
T <sub>2</sub>	22.72	24.01	22.98	28.24	31.62	8.56	36.96	72.18
T <sub>3</sub>	48.97	50.00	49.17	54.3	56.06	31.18	50.81	94.03
y	13.33	13.33	13.33	12.9	10.67	8.4	8.77	9.7
$\frac{4y}{9}$	5.93	5.93	5.93	5.73	4.74	3.73	3.9	4.31
$\frac{y}{9}$	1.48	1.48	1.48	1.43	1.19	0.93	0.97	1.08
M	6.25	6.54	6.31	7.78	8.77	3.02	10.09	20.06
$\frac{15M}{16}$	5.86	6.13	5.92	7.3	8.23	2.83	9.46	18.81
$\frac{3M}{4}$	4.69	4.90	4.73	5.84	6.58	2.26	7.57	15.05
$\frac{7M}{16}$	2.74	2.86	2.76	3.4	3.84	1.32	4.41	8.78
C	42.95	43.83	43.13	50.59	56.59	30.48	49.17	98.11

### TYPICAL AGGREGATE BASE SIDEROAD



ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.