## RUNAROUND GEOMETRICS AND SURFACE QUANTITES

| | TYPE A, > 45MPH | | | | | | TYPE B, ≤ 45MPH | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| X (ft) | 40 | 45 | 50 | 55 | 60 | 65 | 40 | 45 | 50 | 55 | 60 | 65 |
| Ø | 10° | 10° | 10° | 10° | 10° | 10° | 13° | 13° | 13° | 13° | 13° | 13° |
| Z (ft) | 230.35 | 259.14 | 287.94 | 316.73 | 345.53 | 374.32 | 177.82 | 200.04 | 222.27 | 244.50 | 266.72 | 288.95 |
| R (ft) | 1070 | 1070 | 1070 | 1070 | 1070 | 1070 | 720 | 720 | 720 | 720 | 720 | 720 |
| T (ft) | 93.61 | 93.61 | 93.61 | 93.61 | 93.61 | 93.61 | 82.03 | 82.03 | 82.03 | 82.03 | 82.03 | 82.03 |
| L (ft) | 43.13 | 71.92 | 100.72 | 129.51 | 158.31 | 187.10 | 13.76 | 35.98 | 58.21 | 80.44 | 102.66 | 124.89 |
| Y (ft) | 414.07 | 442.42 | 470.79 | 499.14 | 527.50 | 555.85 | 337.32 | 358.97 | 380.63 | 402.29 | 423.94 | 445.60 |
| E.R.W. (ft) | SURFACE AREA OF RUNAROUND IN SYS. (VARIABLE DISTANCE NOT INCLUDED) | | | | | | | | | | | |
| 18 | 1555 | 1751 | 1950 | 2148 | 2347 | 2545 | 1280 | 1433 | 1586 | 1739 | 1892 | 2045 |
| 20 | 1493 | 1691 | 1890 | 2088 | 2287 | 2585 | 1225 | 1378 | 1531 | 1684 | 1837 | 1990 |
| 22 | 1428 | 1627 | 1825 | 2024 | 2222 | 2420 | 1170 | 1323 | 1476 | 1629 | 1783 | 1935 |
| 24 | 1375 | 1574 | 1773 | 1971 | 2170 | 2368 | 1127 | 1280 | 1432 | 1586 | 1739 | 1892 |

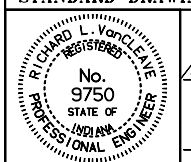
ERW - Existing Roadway Width

INDIANA DEPARTMENT OF TRANSPORTATION

**TEMPORARY RUNAROUND GEOMETRICS**

MARCH 2002

STANDARD DRAWING NO. **E 713-TCTR-02**




DESIGN STANDARDS ENGINEER

/s/ Richard L. VanCleave 3-01-02
DESIGN STANDARDS ENGINEER DATE

/s/ Richard K. Smutzer 3-01-02
CHIEF HIGHWAY ENGINEER DATE