

*PLAT OF DEWALD'S SUBDIVISION, LOT B; Formerly a portion*  
*LOCATED IN THE SW1/4NE1/4NW1/4 AND A PORTION OF W1/2NW1/4 OF SECTION 12,*  
*T1N, R6E, B.H.M., CITY OF RAPID CITY, PENNINGTON COUNTY, SOUTH DAKOTA.*

**Section 5.0 Cul-De-Sac Design**

**5.1 General Statement**

Local and industrial streets may be designed to have one end permanently closed as provided by this section.

**5.2 Design Criteria**

**5.2.1 Street Classification**

Cul-de-sacs shall be classified in accordance with Section 2.0 of this Manual.

**5.2.2 Traffic Volume/Length**

Cul-de-sacs shall not exceed 1200 feet (366 M) in length and shall not serve more than twenty housing units. In commercial and industrial areas, a cul-de-sac should accommodate no more than 200 vehicle-trips per day. Cul-de-sac length shall be measured from the intersecting street (providing two means of egress) edge-of-pavement to the center of the cul-de-sac turnaround.

**5.2.3 Turnaround Requirements**

Cul-de-sacs shall be provided with a turnaround at the closed end and intermediate turnarounds at intervals not exceeding 600 feet (183 M). Turnarounds shall meet the following minimum dimensions:

TABLE 5-1

MINIMUM TURNAROUND DIMENSIONS

STREET CLASSIFICATION	PARKING	RIGHT-OF-WAY DIAMETER	PAVEMENT DIAMETER	REVERSE-RADIUS	
				ROW	CURB
LOCAL RESEDENTIAL	NO	96'/29.3 M	76'/23.2 M	30'/9.1 M	40'/12.2 M
LOCAL RESIDENTIAL	YES	110'/33.5 M	90'/27.4 M	30'/9.1 M	40'/12.2 M
INDUSTRIAL	NO	118'/36 M	92'/28 M	30'/9.1 M	40'/12.2 M

Circular turnarounds with center islands, T- and Y-shaped turnarounds may be permitted as an exception. T- and Y-shaped turnarounds shall serve no more than four dwellings.

**5.2.4 Moderate/High/Extreme Fire Hazard Areas**

In moderate, high, or extreme fire hazard areas, cul-de-sacs shall not exceed 500 feet (152.4 M) in length.