

**Selection Criteria for Rural High Speed Intersections (Posted Speed >= 50 mph)**

INTERSECTION TYPE <sup>A</sup>	TYPE OF THROUGH HIGHWAY	
	FOUR LANE DIVIDED	TWO LANE
<b>A1</b> 450-ft full-width turn lane, exclusive of storage <sup>C</sup>	<b>For posted speed of 65 or 60 mph:</b> Use if:  The intersection design vehicle is a WB-62 or larger, or  Current traffic volume on the side road exceeds 1,000 AADT regardless of the design traffic volume on the through highway, or  Current traffic volume on the side road is between 400 and 1,000 AADT and the design traffic volume on the through highway exceeds 4,000 AADT.	Do not use on two-lane highways.
<b>A2</b> 350 ft full-width turn lane exclusive of storage <sup>C</sup>	<b>For posted speed of 55 mph or 50 mph:</b> Use if:  The intersection design vehicle is a WB-62 or larger, or  Current traffic volume on the side road exceeds 1,000 AADT regardless of the design traffic volume on the through highway, or  Current traffic volume on the side road is between 400 and 1,000 AADT and the design traffic volume on the through highway exceeds 4,000 AADT.	Use if:  The intersection design vehicle is a WB-62 or larger, or  Current traffic volumes exceed 2500 AADT on the through highway and 1000 AADT on the side road.
<b>B1</b> 300 ft full-width turn lane exclusive of storage <sup>C</sup>	<b>For posted speed of 65 or 60 mph:</b> Use at all intersections not meeting the criteria for Intersection Type A1  <b>For posted speed of 55 mph or 50 mph :</b> Use at all intersections not meeting the criteria for Intersection Types A2 or B2	Use if current traffic volumes on both the through highway and the side road exceed 500 AADT and the sum of both exceeds 2500 AADT.
<b>B2</b> 200 ft full-width turn lane exclusive of storage <sup>C</sup>	<b>For posted speed of 55 mph or 50 mph:</b> Use if the design traffic volume on the through highway is less than 7000 AADT and the current traffic volume on the side road is less than 100 AADT.	Use if the current traffic volumes on both the through highway and the side road exceed 100 AADT and the sum of both exceeds 1250 AADT. <sup>B</sup>
<b>C or D</b>	Do not use on divided highways.	Use at all intersections not meeting the criteria for intersection Types A, B1 or B2.

A See [SDD 9A1](#) for intersection details.

B If the acquisition of new right of way or substantial earthwork would be required for Resurfacing and Pavement Replacement projects, the merits of improved traffic flow should be weighed against increased construction costs, lengthened project development time to acquire R/W, disruptions to adjacent property, etc. If a Type B2 intersection cannot be justified at a specific location, the designer should evaluate using a Type C or D intersection.

C These full-width turn lane lengths apply to both left turn lanes and right turn lanes for traffic entering the same side road leg of the intersection. Additional lengths are necessary to store turning vehicles - see [FDM 11-25-1](#), and [FDM 11-25-5](#). Also, see [FDM 11-25-5](#) attachments.