

**Table 210.4.1 Standard Shoulder Widths**

Lane Type	# Lanes (One Direction)	Without Shoulder Gutter				With Shoulder Gutter			
		Outside		Median Or Left		Outside		Median Or Left	
		Full Width (feet)	Paved Width (feet)	Full Width (feet)	Paved Width (feet)	Full Width (feet)	Paved Width (feet)	Full Width (feet)	Paved Width (feet)
Travel Lanes	4-Lanes or more	10	5	10	4	15.5	8	15.5	8
	3-Lanes	10	5	10	4	15.5	8	15.5	8
	1-Lane & 2-Lanes	10	5	8	4	15.5	8	13.5	6
Aux. Lanes	ALL	10	5	8	4	11.5	4	11.5	4

**Notes:**

**Without shoulder gutter:**

- (1) Consider 12-foot outside full width shoulder adjacent to travel lanes with high AADT or greater than 10% trucks.
- (2) Consider providing a minimum 10-foot median shoulder where continuous barrier or guardrail is present.
- (3) Outside shoulder widths for auxiliary lanes typically match those of the adjacent roadway; however, width may be reduced to 6-foot shoulder with 2-foot paved for right turn lanes when a bicycle keyhole is present.
- (4) Pave the entire width of shoulders adjacent to concrete barriers. See **FDM 215.4.6.1**.
- (5) For RRR Projects:
  - (a) an existing full width shoulder of 6-foot or greater may be retained, ~~and~~
  - (b) the following minimum existing outside paved shoulder widths may also be retained:
    - i. 4-foot ~~paved outside shoulder~~ adjacent to travel lane
    - ii. 2-foot ~~paved outside shoulder~~ adjacent to auxiliary lane
    - iii. ~~2 foot paved median or left shoulders adjacent to the travel and auxiliary lane.~~
  - (c) an existing unpaved median or left shoulder may be retained. Consider providing a 4-foot median or left paved shoulder adjacent to travel and auxiliary lanes where there are documented safety or maintenance concerns.

**With shoulder gutter:**

- (1) Paved shoulders less than 6 feet in width with adjoining shoulder gutter must be the same type, depth, and cross slope as the roadway pavement.
- (2) Shoulders must extend 4 feet beyond the back of shoulder gutter and have a 0.06 cross slope back toward the gutter.
- (3) Required shoulder widths for auxiliary lanes typically match those of the adjacent roadway.