

Pavement Widening on Resurfacing Projects for Non-NHS Highways

Design Manual
Chapter 7
Pavement
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Revised: 11-17-21

Design Considerations

Two lane highways should have 12 foot pavement widths for both lanes. For PCC pavement widening, use Standard Road Plan [PV-105](#). For HMA pavement widening, use Standard Road Plan [PV-203](#). The thickness of the widening unit plus overlay should total a minimum of 8 inches, see Figure 1.

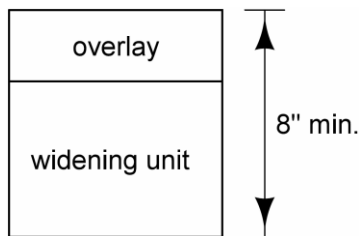


Figure 1: Minimum pavement widening thickness.

Areas where a widening unit has already been placed should be evaluated on a case-by-case basis to determine if an additional widening unit is appropriate. In most cases, the roadway will be widened.

If the paved portion of the shoulder after widening will be less than 4 feet, a safety edge (see [3C-6](#) and Standard Road Plan [PV-3](#)) should be included on the widening unit or overlay.

Fillets should be used at non-paved sideroads. Runouts should be used at paved sideroads. At entrances, designers have the option to include fillets where the pavement has been widened to 12 feet if other entrances along the corridor already have them. However, fillets already in place due to earlier resurfacing projects should be resurfaced.

Counties have expressed an interest in paying for placing fillets that extend out 50 feet or more (see Design Detail [7149](#)) at non-paved sideroads. This allows counties to grade their non-paved roads without their equipment infringing on the primary highway. Designers should take advantage of this whenever possible. Since counties will need to budget for this, designers should contact counties as early as possible in the design process.

Highways That Should Not Be Widened

Highways with less than a 32 foot top (width of existing lanes and shoulders) should not be widened because a minimum two foot granular shoulder is desirable outside of the pavement to stabilize the widening unit.

Chronology of Changes to Design Manual Section:

007D-008 Pavement Widening on Resurfacing Projects for Non-NHS-Highways

11/17/2021	Revised Removed unused hyperlink.
6/25/2019	Revised Rewrote to reflect change to 12 foot paved lane widths.
1/15/2014	Revised Revise to include adding 50 foot fillets at non-paved sideroads and eliminate stating rumble strips should not be placed in outermost 2 feet of a lane.
7/18/2013	Revised Revise Standard Road Plan references. Allow option for fillets at entrances where pavement has been widened.
1/23/2004	Previously Updated