



Treatment of Old Roadbeds

Design Manual
Chapter 7
Pavement

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Treatment of old roadbeds depends on future use of the land. If a road has been abandoned and is to be converted to farmland, the roadbed must be obliterated. If new construction follows the alignment of, or intersects with, an existing road, the existing roadbed is either rebuilt or obliterated. This section discusses each of these situations. Contact the Soils Design Section for assistance.

Pavement Removal

EPA requirements prohibit burying HMA material in embankments; therefore, when a new roadbed will cover or partially cover an existing roadbed, HMA pavement must always be removed. Include this in the pavement removal quantities. Designers should assume PCC pavement will be removed (for plowing and shaping, PCC pavement must be removed). Include this in the pavement removal quantities.

Section [2510](#) of the Standard Specifications provides guidance to contractors regarding pavement removal. When the project concept includes pavement removal and reprocessing, provide for one of the following:

- Remove and stockpile.
- Remove, mill and/or crush, and use in project.
- Remove, mill and/or crush, and stockpile.

If crushing is specified, identify the gradation requirement and intended purpose (i.e., Special Backfill or Modified Subbase). Pavement removal and milling and/or crushing should be included on one contract.

Conversion to Farmland

When an old roadbed is to be converted to farmland, it must be obliterated. Road Design Detail [4302](#) provides information regarding obliteration of existing roadbeds. Obliteration of the roadbed and conversion to farmland must not disturb current drainage patterns. Refer to Section [10A-1](#) for information regarding topsoiling.

New Highway Construction

Two situations that designers encounter involve:

- New construction that generally follows the alignment of an existing road, or
- New construction transverse to an existing road, e.g. mainline construction that intersects an existing road.

Following the Alignment of an Existing Road

Two cases are considered when proposed new highway construction generally follows the alignment of an existing road. In some situations, existing roadbed may be left in place as is. Contact the Soils Design Section.

Case 1

Where the existing road would be located within the proposed roadbed (see Figure 1), the embankment should be rebuilt according to Standard Road Plan [EW-101](#). Tab [107-31](#) should be included in the plans.

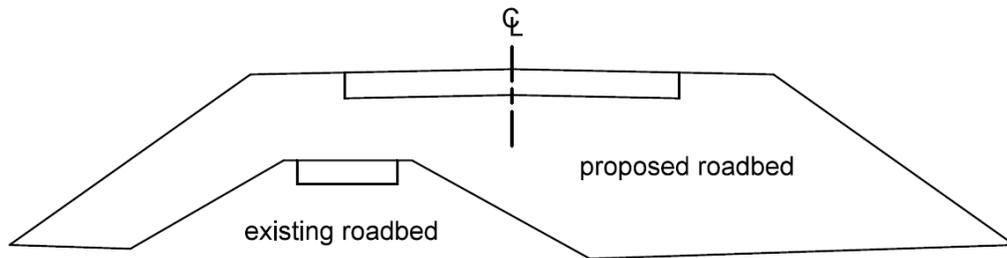


Figure 1: Existing roadbed inside of proposed roadbed as outlined in Case 1.

Case 2

Where the existing roadbed would be partially or fully exposed, the roadbed should be obliterated and reshaped (see Figure 2) or covered over with a minimum of one foot of fill (see Figure 3), whichever method is appropriate to the conditions involved.

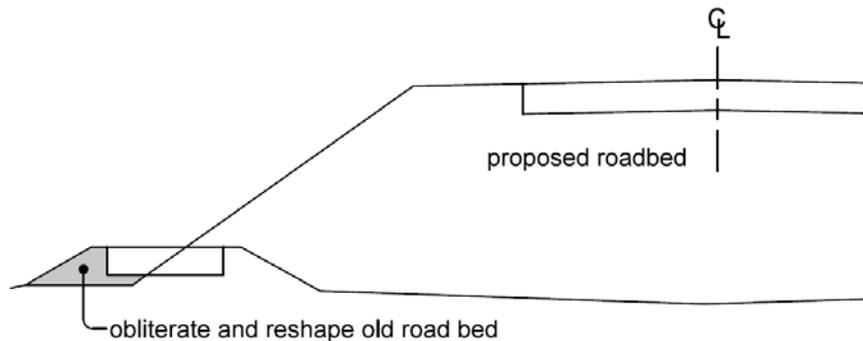


Figure 2: Reshaping roadbed as outlined in Case 2.

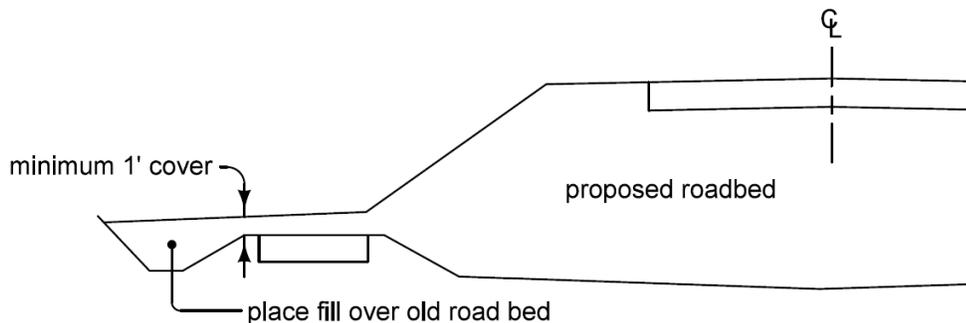


Figure 3: Covering old roadbed as outlined in Case 2.

Transverse to an Existing Road

When widening or adding lanes through an intersection with an existing road, excavation through the area of the existing transverse roadbed should be tabbed as plowing and shaping (see Figure 4). Use Tabulation [107-31](#).

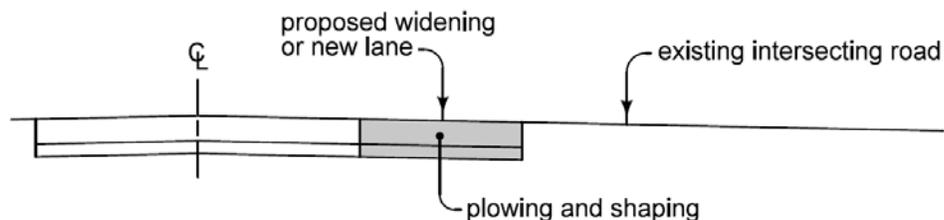


Figure 4: Widening or adding lanes through an intersection.

If the existing road is to be converted to farmland, follow the procedure discussed above for conversion to farmland, except the existing roadbed located under the proposed new roadbed should be tabbed as plowing and shaping rather than obliteration (see Figure 5). Use Tabulation [107-31](#).

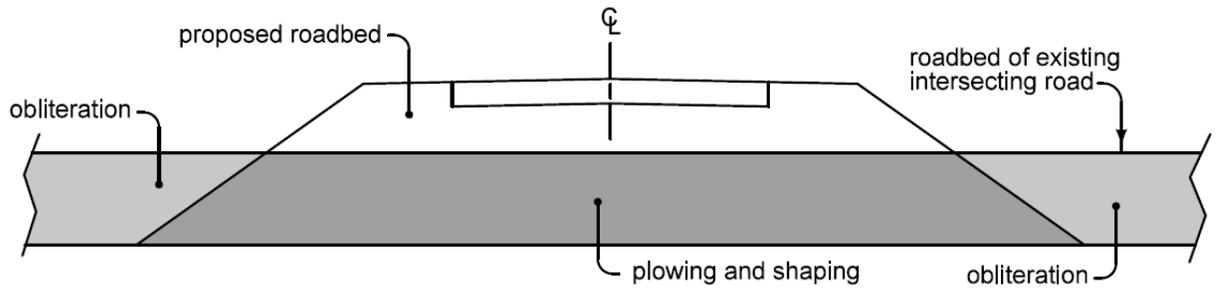


Figure 5: Existing transverse road inside of proposed roadbed.

Chronology of Changes to Design Manual Section:

007D-004 Treatment of Old Roadbeds

- | | |
|------------|---|
| 12/19/2012 | Revised
Revised reference to outdated standard. Reorganized original material. Added material regarding new road intersecting existing road. |
| 12/20/1999 | New material. |