

SECTION 654—PAVED SHOULDERS, TYPE 4

654.1 DESCRIPTION—This work is construction of paved shoulders, Type 4, and preparation of the underlying surface.

654.2 MATERIAL—

- Aggregate Base—[Section 350.2](#)
- Bituminous Prime Coat—[Section 461.2](#)
- Bituminous Surface Treatment—[Section 480.2](#)
- Shoulder Backfill Material—[Section 350.2](#)

654.3 CONSTRUCTION—As shown on the [Standard Drawings](#) and as follows:

(a) General. Remove surplus material on existing shoulders to the bottom of the proposed base course or to a directed depth. If the existing guide rail is to remain in place, excavate the shoulder without disturbing the existing guide rail. Remove and shape material under and in back of existing guide rail to the elevation and slopes indicated or as directed. The Contractor is not required to compact behind the existing rail.

Satisfactorily repair existing guide rail damaged or destroyed by the construction operations, as directed.
Satisfactorily dispose of excess or unsuitable material, as directed.

(b) Scarifying. After removing surplus material and at directed locations, scarify existing shoulder areas to a maximum depth of 100 mm (4 inches) below existing grade or to the directed depth.

(c) Shaping and Compacting. Shape and compact existing shoulder areas and low areas filled with graded material from the shaping operation to the bottom elevation of the proposed base course. If there is insufficient graded material, provide aggregate base course material to fill low areas to the bottom elevation of the proposed base course. Compact graded material or aggregate base course material as specified in [Section 654.3\(f\)](#).

(d) Aggregate Base. Construct, as specified in [Section 350.3](#), to the depth indicated.

(e) Excavation. Where indicated, excavate the shoulder area below the bottom of the proposed base course to the depth indicated or directed.

(f) Shoulder Backfill. Where the shoulder area was excavated below the bottom elevation of the proposed base course, backfill, shape, and compact aggregate base course material to the bottom elevation of the proposed base course. Compact using rollers conforming to [Section 108.05\(c\)3.a](#), [3.b](#), [3.e](#), or [4](#). The material is satisfactorily compacted when it does not move under the compaction equipment.

(g) Prime Coat. [Section 461.3](#)

(h) Bituminous Surface Treatment. [Section 480.3](#)

654.4 MEASUREMENT AND PAYMENT—

(a) Paved Shoulders, Type 4. Square Meter (Square Yard)

(b) Shoulder Backfill. Cubic Meter (Cubic Yard) or Tonne (Ton)
The unit price includes excavation below the bottom of the proposed base course.