

SECTION 301 SUBGRADE PREPARATION (LCDOT) For use on LCDOT projects with unsuitable material (soils report). Fill in the undercut quantities below. If not applicable a table may be deleted. Delete this note from the Contract Specifications.

Effective: January 1, 2007
 Revised: May 21, 2014

Description: This work shall consist of removing, transporting and disposing of unsuitable material; and backfilling the excavated area with a porous granular embankment material when preparing the subgrade beneath the 12" Aggregate Subgrade shown on the plans.

General: The work shall be performed according to Section 301 of the "Standard Specifications" and the following:

Soil borings taken for this project indicate that at various locations, soft unstable soils of varying depths exist. These soils may need to be removed and replaced with porous granular embankment, special, prior to placing the bituminous base course or aggregate material.

The project soils report is available online with the project plans and contract specifications. Additionally a hard copy of the report is available for inspection and review at LCDOT.

At the following locations the Contractor shall attempt to prepare the subgrade according to Article 301.03 of the "Standard Specifications". If the Engineer determines that the subgrade cannot be stabilized, the area shall be undercut to the maximum depth indicated and the removed material replaced with porous granular embankment, special, and geotechnical fabric.

Station to Station	Max Undercut Depth	Replacement Material

Undercutting is required within the following limits. The maximum depth of undercut below the proposed top of subgrade, and the replacement material are indicated for each location:

Station to Station	Max Undercut Depth	Replacement Material

The plans, profiles and cross-sections show the approximate limits of removal and replacement with porous granular embankment, special, for the above locations. Quantities for EARTH EXCAVATION and POROUS GRANULAR EMBANKMENT, SPECIAL have been computed to include these locations.

At all locations the actual extent of removal and replacement shall be determined by the Engineer in the field at the time of construction. Undercuts deeper than the maximums indicated above shall be justified based upon cone penetrometer testing. In all cases, the undercut shall extend to one foot outside the edges of the hot-mix asphalt pavement (or the back of the curb in curb and gutter sections) and come up at a 1:1 slope to the existing ground surface as shown on LCDOT Standard LC2000.

A proof rolling procedure acceptable to the Engineer shall be followed in order to verify the stability of the subgrade prior to the placement of earth embankment or porous granular embankment. Verification of subgrade stability shall be done through the use of a cone penetrometer in conjunction with the Illinois Department of Transportation's Subgrade Stability Manual.