

NDDOT 2 - CONTRACTOR CORING

Conduct this procedure according to NDDOT defined standards.

SCOPE

The following sampling procedure is for obtaining asphalt roadway cores.

REFERENCED DOCUMENTS

ND T 166 and AASHTO T 166, Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens

APPARATUS

Coring machine
Masonry saw

PROCEDURE

The diameter of the asphalt cores can be either 4" or 6". The cores are obtained by the Contractor, under the observation of the Engineer. The Engineer will compute and mark the locations to be cored using random numbers to determine station and offset from the edge of the pavement. The Engineer will adjust core locations that fall within one foot of the pavement edge or select a new random location that establishes a core location within the test area. The cores are to be taken at least 6" apart but no more than one foot apart and on a longitudinal plane.

Take asphalt cores through the full depth of the asphalt pavement. The core bit must be at right angles to the pavement surface to ensure that the resultant core is reasonably straight. Do not force the core bit through the pavement as this results in rough, uneven cores which precludes certain testing. Exercise care when removing the core from the pavement to prevent distorting or cracking.

After removing the core, fill the hole in the pavement with mix and tamp to a density close to that of the surrounding pavement.

Remove the pavement lift of interest from the core by wet sawing with a masonry saw. Transport the cores to the laboratory for mat density testing. Conduct testing according to ND T 166.