



Illinois Department of Transportation

Memorandum

To: Studies & Plans Squads PPM 20-01
From: J. W. Witters Revised: Tim Brandenburg
Subject: Granular Embankment, Special (Drainage)
Date: November 17, 1980 Revision Date: December 5, 2006

PLAN PREPARATION MEMORANDUM 20-01

BACKGROUND AND PROCEDURES

This memorandum supercedes Plan Preparation Memorandum 78-105.P and assists in providing District preference with Section 206 of the Standard Specifications for construction of Granular Embankment, Special.

The District Geotechnical Engineer has suggested that rather than use French Drains we use Pipe Underdrains as shown on District CADD Detail "60107700 - Pipe Underdrains for Granular Embankment, Special". District Special Provision "Granular Embankment, Special", should also be utilized with Section 206 to reflect the latest review of construction methods.

Pipe Underdrains should be used whenever the Granular Embankment, Special is more than fourteen (14) inches thick and placed at approximately 50 foot centers. Spacing may be increased to 100 foot centers on long areas of Granular Embankment outside the SAG location.

The purpose of the pipe underdrains is to prevent density and stability problems. The District Geotechnical Engineer & Project Engineer should be consulted prior to the use of pipe underdrains to ensure need.

Granular Embankment, Special should not be constructed under heavy traffic or where there are heavy turning movements. This decision should be considered by Program Development and Project Implementation at the scoping field check. If granular embankment is not used, consideration should be given to using a modified BAM for the construction of a grade change under traffic.