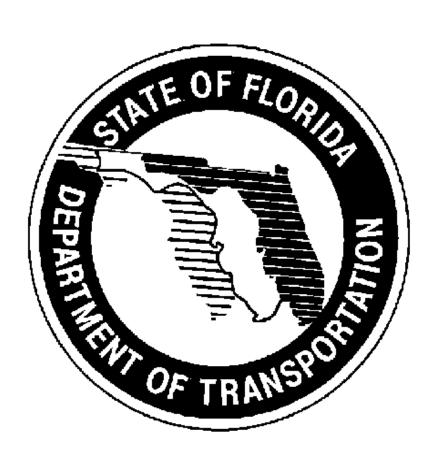
Experimental Project Report

County
Section/Subsection No.
State Road
Project Description

Clay 71050-3512

Light Fractions in Asphalt



State Materials Office Gainesville, Florida



Project Description

County Section Number State Road <u>Clay</u> 71050-3512 16

OBJECTIVE:

The objective of this study is to evaluate the relative long-term pavement performance of a pavement structure consisting of asphalt containing various light fractions (lighter asphalt oils). The project was initiated in December of 1984 on SR 16 in Clay County. The project consists of eight sections located in the east and westbound traffic lanes. The performance is evaluated in term of Deflection (Dynaflect Deflection), Ride, Rutting and Cracking.

The sections being evaluated are:

Section 1: Asphalt cement with Typical percentage of Light

Fractions. Type Plant - Batch

Section 2: Asphalt cement with Typical percentage of Light

Fractions. Type Plant – Drum Mix

Section 3: AC with a high percentage of Light Fractions.

Type Plant - Batch

Section 4: AC with a high percentage of Light Fractions.

Type Plant – Drum Mix

Section 5: Same AC as used in Section No. 1 after steam

distillation to remove Light Fractions. Type Plant

- Batch

Section 6: Same AC as used in Section No. 2 after steam

distillation to remove Light Fractions. Type Plant

- Drum Mix

Section 7: Same AC as used in Section No. 3 after steam

distillation to remove Light Fractions. **Type Plant**

- Batch

Section 8: Same AC as used in Section No. 4 after steam

distillation to remove Light Fractions. Type Plant

- Drum Mix

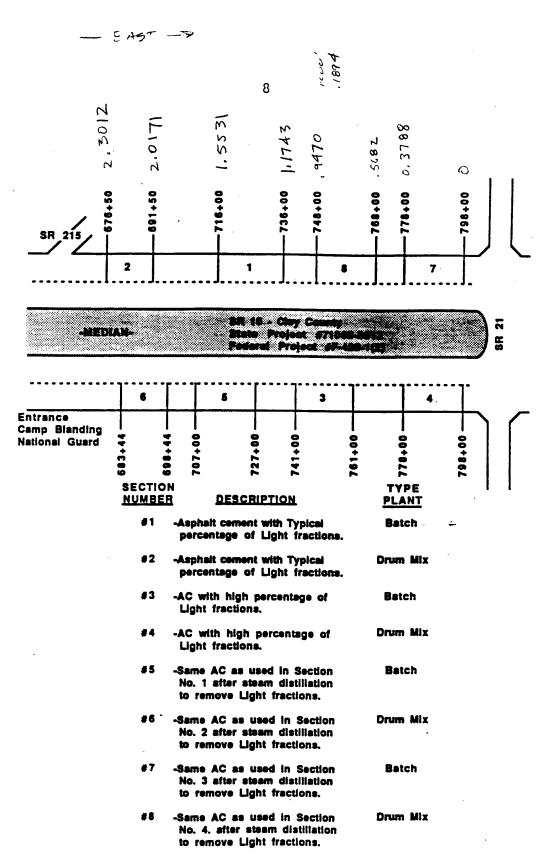
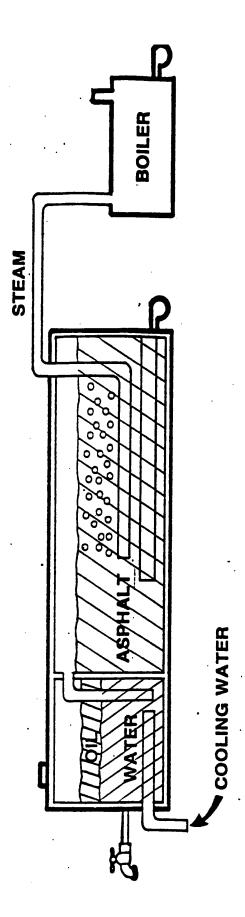


Figure 1. Field Trial to Evaluate the Effects of Light Fractions in Asphalt on Mix Properties and Pavement Performance



STEAM DISTILLATION

Figure 2. Schematic of Steam Distillation Unit

Pavement Distress Graphs

County: Clay Section Number: 71050-3512 State Road: 16

