

Section 5.10

VERIFICATION INSPECTION AND TESTING

5.10.1 Purpose

This section provides minimum verification inspection and testing frequencies when they are not established in the **Specifications** or at the “Discretion of the Engineer.” The purpose is to monitor and verify the Contractor’s construction processes to ensure construction and material quality comply with **Specification** requirements.

5.10.2 Authority

Sections 20.23(3)(a) and 334.048(3), Florida Statutes (F.S.)

5.10.3 Scope

This document applies to project personnel, namely Verification Technicians, Project Administrators, and Project Managers, in establishing the minimum verification inspection and testing frequencies when they are not established in the **Specifications** or at the “Discretion of the Engineer.”

5.10.4 Inspection Frequency

5.10.4.1 Asphalt

(A) Resident Level Responsibilities

In addition to the frequency of verification, resolution, and independent verification of material properties and construction inspections required by the **Specifications**, Qualified Asphalt Technicians shall also perform inspection and verification activities randomly at the job site and asphalt plant to evaluate the reliability and uniformity requirements of Contractor’s Quality Control operations. The Quality Control (QC) and Verification (VT) Technicians shall document the findings and results in the **Asphalt Roadway – Daily Report of Quality Control – Automated Version, Form No. 675-030-20A and the Asphalt Roadway – Verification Report, Form No. 675-030-21 or the Asphalt Roadway – Verification Report – Automated Version, Form No. 675-030-21A**, respectively. Asphalt plant information shall be uploaded into the **Materials and**

Certification (MAC) database. Straightedge testing information shall be uploaded into MAC, however, other Roadway inspection information is not required to be entered into **MAC. Frequencies for various Inspection and Verification activities** are as follows:

Tack Coat Spread Rate	Once / Day
Asphalt Mix Spread Rate (Yield)	Once per layer / Day
Asphalt Mix Temperature	Twice / Day
<u>Depth and Cross Slope (Milling)</u>	
Tangent Sections:	Once / 500 ft
Transition Sections:	At control points in plans.
Super-elevated Sections:	Minimum of 3 measurements.
 Milled Surface Texture	 Once / Day
<u>Cross Slope (Paving)</u>	
Tangent Sections:	Once / 500 ft
Transition Sections:	At control points in plans.
Super-elevated Sections:	Minimum of 3 measurements.

Milling and paving cross slopes shall be documented in the **Cross Slope Measurement Data Form – Automated Version, Form No. 700-010-99** and the findings of milling surface texture shall be documented in the Remarks Section of the **Asphalt Roadway - Daily Report of Quality Control-Automated Version, Form No. 675-030-20A**.

In addition to the above verifications and inspections, the Roadway Verification Technician (VT) shall also monitor and inspect the Contractor's construction processes in accordance with the **Statewide Construction Inspection Guidelists (SCIG)** as specified in **CPAM Section 3.2** at a frequency of once per day during production. For example, the Asphalt Roadway VT shall use SCIG Category No. 7B to ensure asphalt pavement is being constructed consistently and accurately in accordance with Contract Documents.

The frequencies stated above are minimum frequencies. If visual inspection of the performance indicates the need, the frequency shall be increased to ensure a project's construction and material quality comply with the **Specifications**.

5.10.4.1.1 Corrective Action

(A) Resident Level Responsibilities

The inspector shall inform the Contractor's Quality Control (QC) Manager about any deficiencies and advise the QC Manager to take corrective action immediately. Once

the corrective action has been taken, the inspector shall perform a re-check. If the re-check indicates the construction is still not in compliance with the **Specifications**, the inspector shall advise the Project Administrator (PA) about all identified deficiencies. The PA shall take appropriate action to ensure the issues are resolved by the contractor. Disposition of deficiencies shall be handled in accordance with the **Specifications**.

5.10.4.2 Density Cores

(A) Resident Level Responsibilities

The inspector shall mark the locations of QC and IV density cores, as well as any cores cut for delineation testing or Engineering Analysis Report (EAR) testing purposes by spray painting each core location using a Florida Department of Transportation (FDOT) stencil. FDOT stencils can be obtained from the District Materials Offices (DMOs).