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/results in the Asphalt Verification Reports, and Asphalt Roadway – Verification Report, Form No. 675-030-21, respectively. Asphalt plant information shall be uploaded into the Materials
and Certification (MAC) database; however, Roadway information is not required to be
entered into MAC. Frequencies for various Inspection and Verification activities
are as follows:

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Tack Coat Spread Rate</td>
<td>Once / Day</td>
</tr>
<tr>
<td>Asphalt Mix Spread Rate (Yield)</td>
<td>Once per layer / Day</td>
</tr>
<tr>
<td>Asphalt Mix Temperature</td>
<td>Twice / Day</td>
</tr>
<tr>
<td>Depth and Cross Slope (Milling)</td>
<td></td>
</tr>
<tr>
<td>Tangent Sections:</td>
<td>10 / lane mile</td>
</tr>
<tr>
<td>Transition Sections:</td>
<td>At control points in plans.</td>
</tr>
<tr>
<td>Super-elevated Sections:</td>
<td>Minimum of 3 measurements.</td>
</tr>
<tr>
<td>Milled Surface Texture</td>
<td>Once / Day</td>
</tr>
<tr>
<td>Cross Slope (Paving)</td>
<td></td>
</tr>
<tr>
<td>Tangent Sections:</td>
<td>10 / lane mile</td>
</tr>
<tr>
<td>Transition Sections:</td>
<td>At control points in plans.</td>
</tr>
<tr>
<td>Super-elevated Sections:</td>
<td>Minimum of 3 measurements.</td>
</tr>
</tbody>
</table>

Milling and paving cross slopes shall be documented in the Cross Slope Measurement
Data Form, Form No. 700-010-98 or 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, Form No. 675-030-20 or 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).