



# Open-Graded Crack Relief (OGCR)

## Experimental Project Interim Report

FDOT Office	<b>State Materials Office</b>
District	<b>7</b>
County	<b>Hernando</b>
Financial Project	<b>431143-1-52-01</b>
Roadway ID	<b>08010000</b>
State Road No.	<b>45</b>
US Road No.	<b>41</b>
Report Date	<b>11/18/2016</b>

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# Project Description

<b>District</b>	7
<b>County</b>	Hernando
<b>Financial Project</b>	431143-1-52-01
<b>Roadway ID</b>	08010000
<b>State Road No.</b>	45
<b>US Road No.</b>	41
<b>Lane(s) Tested</b>	L1

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## Objective

The objective of this study is to evaluate the relative long-term performance and effectiveness of an open-graded crack relief(OGCR) layer in mitigating reflective cracking.

## Background

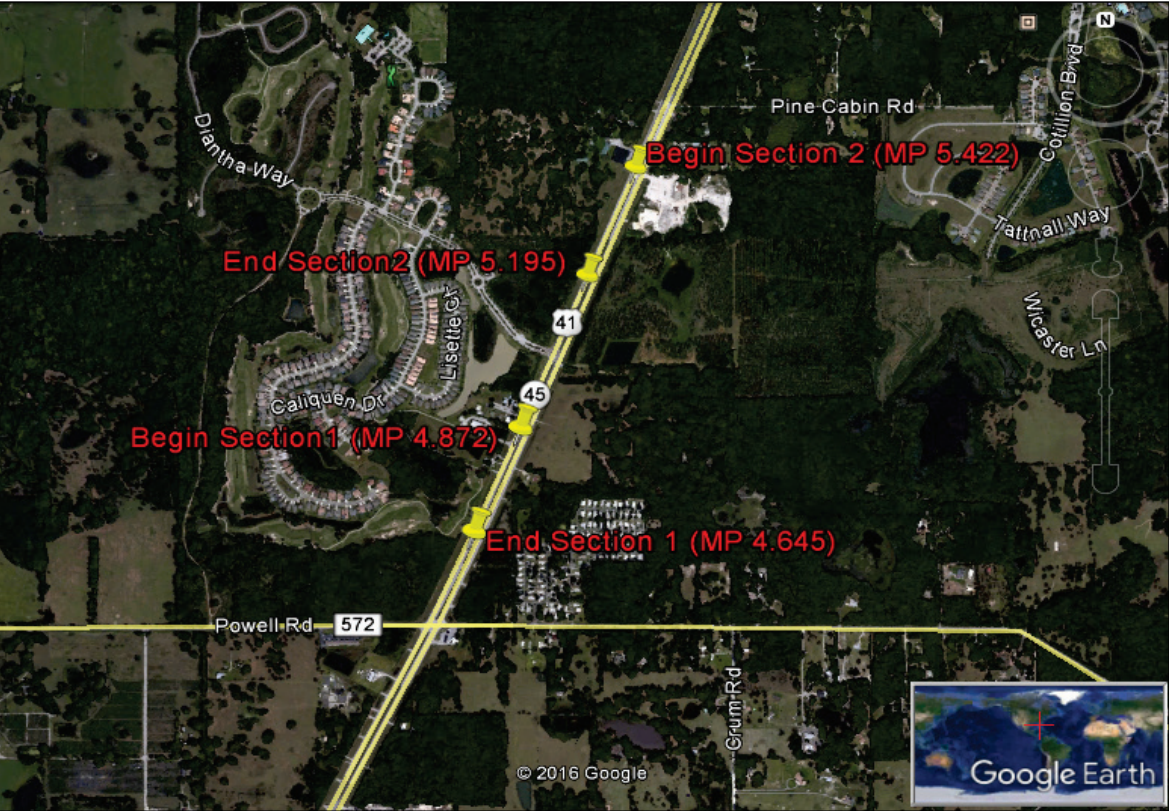
In 2015, two test sections were constructed as part of a 0.951 mile milling and resurfacing project (FIN 431143-1-52-01) which was completed on November 6, 2015. The test sections are located in the Southbound passing lane (L1) of SR-45 /US-41 in Hernando County, between milepost 4.645 and milepost 5.422 . The section to the South (Section 1) received an OGCR and the section to the North (Section 2) received an overbuild as part of the structural layer.

## Description

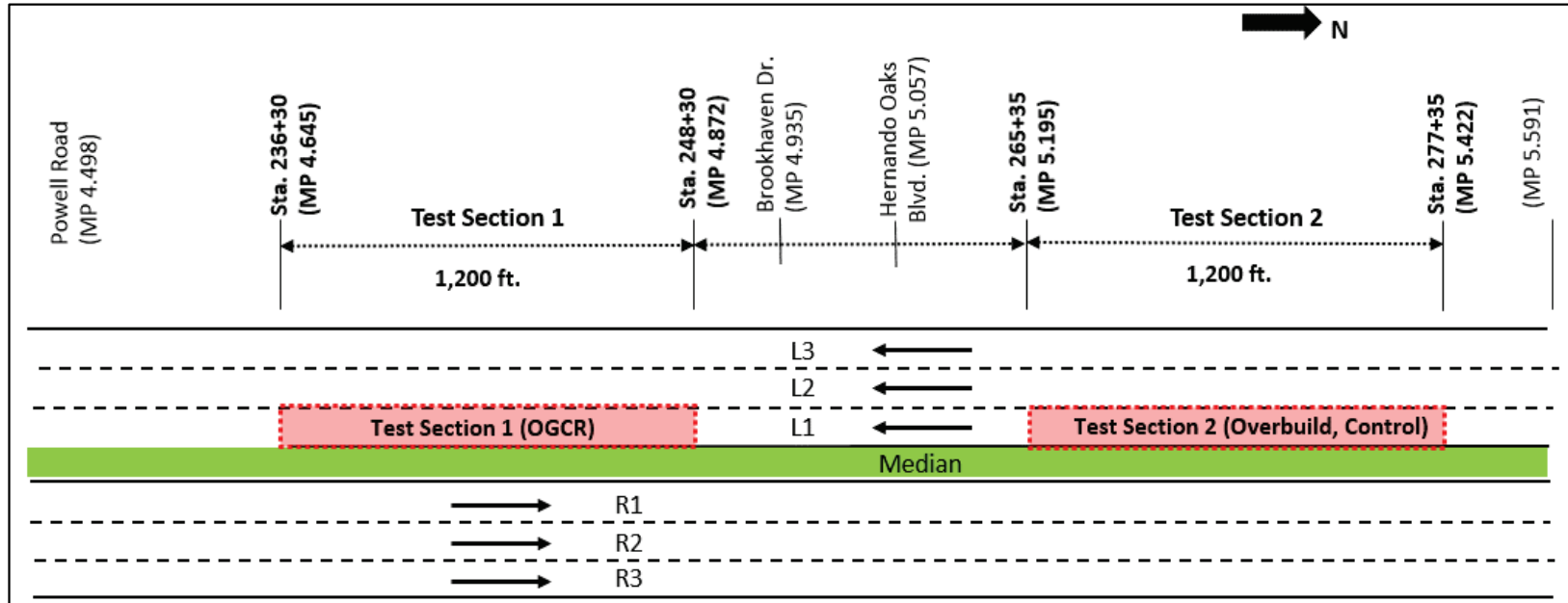
Each test section is 1,200 feet long. The design specified milling 3.25 inches of the existing asphalt and leaving 1.35 inches in place. The structure consists of 12 inches of Type B stabilization (LBR 40), 12 inches of Limerock base, about 1.4 inches remaining asphalt after milling, 1 inch OGCR or Overbuild, 2 inches SP-12.5, and 0.75 inch FC-5. Pavement performance is evaluated in terms of pavement deflection, cracking, rutting, and smoothness.

# Project Location

District	7
County	Hernando
Financial Project	431143-1-52-01
Roadway ID	08010000
State Road No.	45
US Road No.	41
Lanes Tested	L1



# Project Layout



# Pavement Thickness

## Section 1

Sta. 236+30    Sta. 248+30  
(EMP 4.645)    (BMP 4.872)

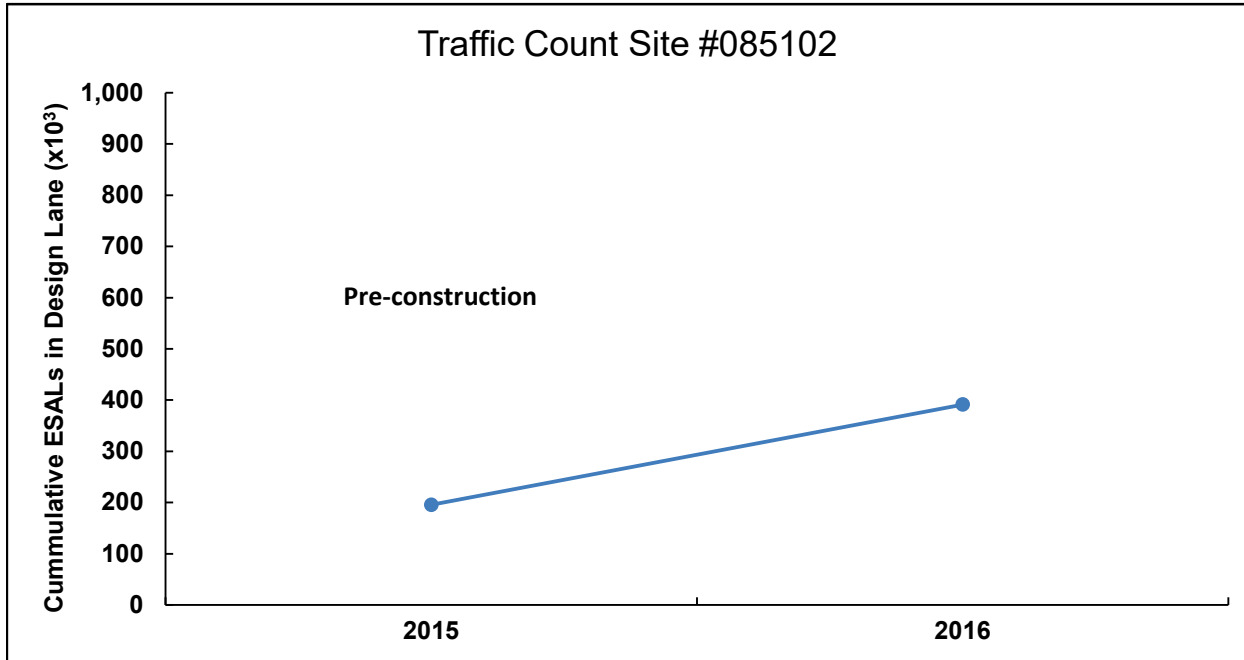
<b>0.75" FC-5</b>
<b>2" SP-12.5</b>
<b>1.0" OGCR</b>
<b>~ 1.4" AC Remaining After Milling</b>
<b>12" Limerock Base</b>
<b>12" Type B Stabilization (LBR 40)</b>

## Section 2

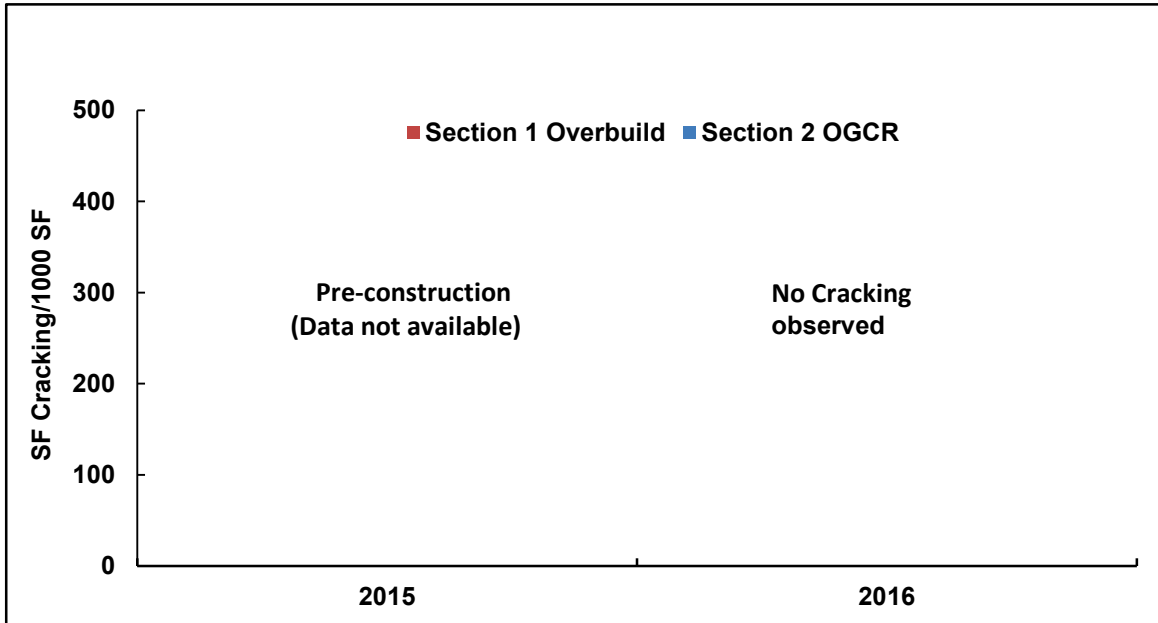
Sta. 265+35    Sta. 277+35  
(EMP 5.195)    (BMP 5.422)

<b>0.75" FC-5</b>
<b>2" SP-12.5</b>
<b>1.0" Overbuild</b>
<b>~ 1.4" AC Remaining After Milling</b>
<b>12" Limerock Base</b>
<b>12" Type B Stabilization (LBR 40)</b>

# Traffic

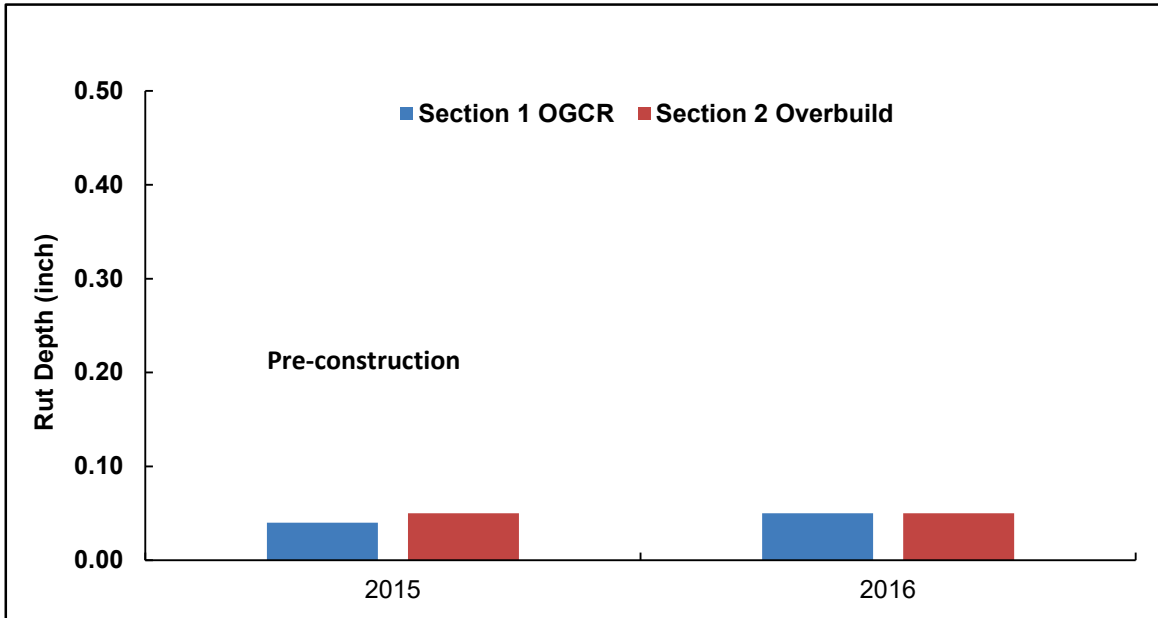


# Cracking



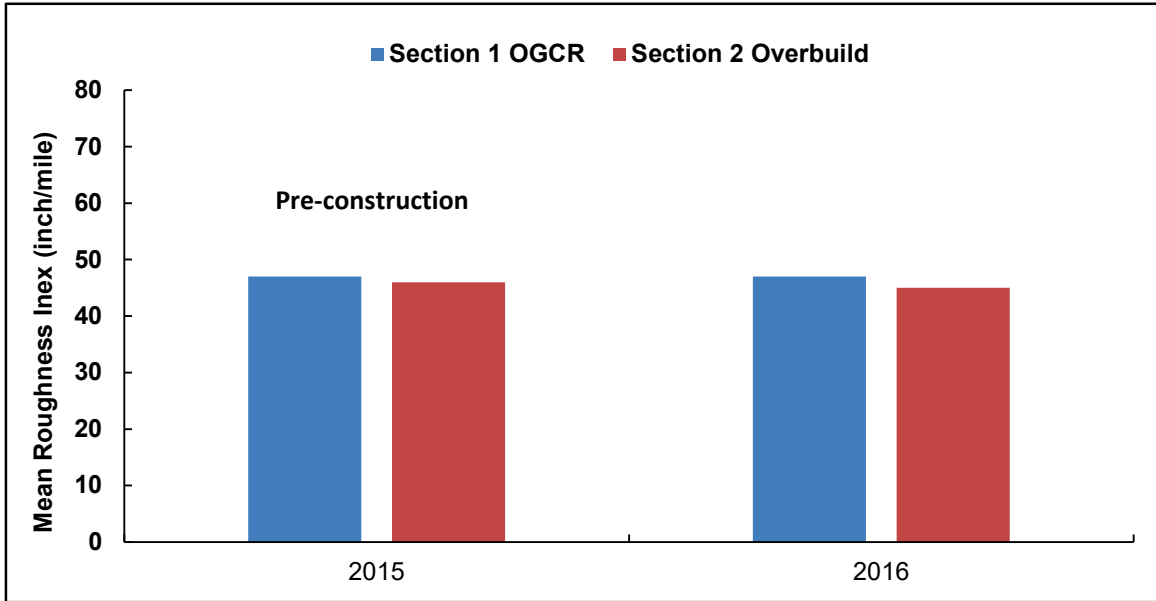
Note: No cracks were observed on either test section

# Rut Depth

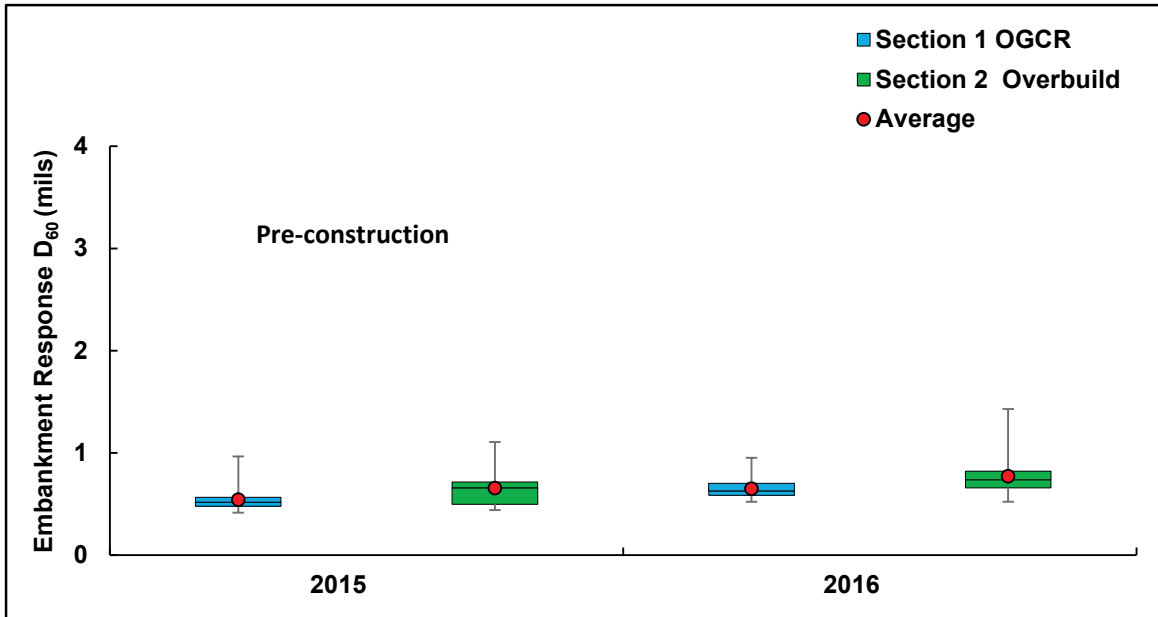
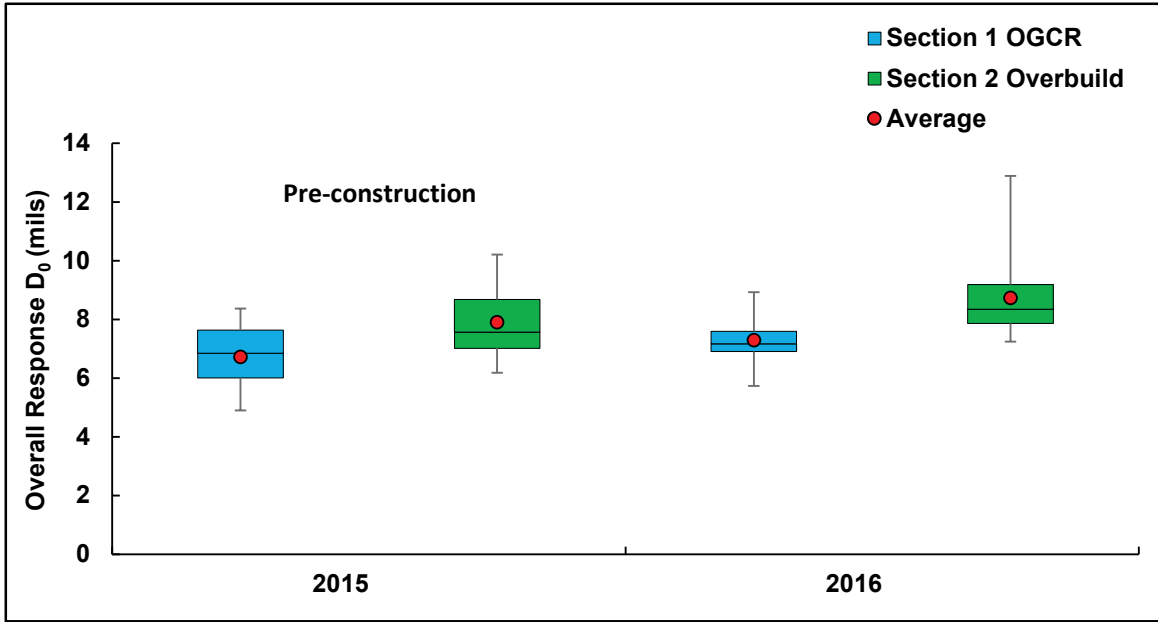




# Smoothness



# Deflection



Key

