

2. GENERAL PROJECT INFORMATION

2.1. Introduction

The Florida Department of Transportation (FDOT) District Five has prepared an Interchange Operational Analysis Report (IOAR) for the proposed turn lane improvements at the I-75 at CR 484 interchange and lane additions at CR 484 at CR 475A intersection in Marion County, Florida. The project location is illustrated in **Figure 1**. A Methodology Letter of Understanding (MLOU) was prepared and approved in September 2020 and is included in **Appendix A**.

2.2. Purpose and Need

The purpose of this project is to add turn lanes to increase the safety and operational efficiency at the I-75 at CR 484 interchange and at the intersection of CR 484 at CR 475A.

The purpose of this IOAR is to document the potential safety and operational impacts of the proposed turn lane modifications being proposed as part of the I-75 at CR 484 interchange improvement project.

The need for the project is based on existing operational deficiencies at the existing I-75 interchange at CR 484. During average weekday conditions, the northbound left-turn movement at the CR 484 at I-75 northbound ramps intersection approaches capacity (volume-to-capacity ratio of 0.99). During higher demand conditions (above average) this capacity constraint results in spillback onto the I-75 mainline during the PM peak hour, creating a safety concern. The project improvements are needed to improve the safety and operations of the I-75 mainline and CR 484 arterial.

2.3. Schedule and Funding

The following is the anticipated schedule for this project:

- Design: Ongoing
- ROW: Certified
- Letting for Construction: FY 2022 (February 2022)
- Construction: FY 2022 – FY 2024