



FREQUENTLY ASKED QUESTIONS (FAQS):

DIVERGING DIAMOND INTERCHANGE AT SR-808 / GLADES ROAD AND SR-9 / I-95

As Part of 95 Express Phase 3B-2

Palm Beach County, Florida

Financial project ID Numbers: 433109-5-52-01, 02 / 412420-4-52-01, 435384-1-52-01

Q.

What is a **DDI**?

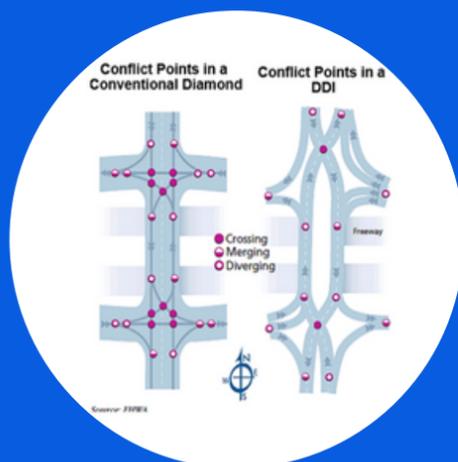
A DDI, or Diverging Diamond Interchange, is a form of interchange that allows the two directions of traffic on the roadway to temporarily cross to the opposite side of the road to provide a safer left turn movement to and from I-95 as well as improving overall safety of the interchange. Switching traffic to the left side through the interchange eliminates left turn movements against oncoming traffic, reducing the number of serious crashes associated with that movement. Signalized intersections located on each side of the Glades Road interchange, as well as advanced overhead directional signing and pavement markings, will facilitate the smooth crossing of traffic, reduce traffic delay and minimize crashes by a projected 33% at the interchange. These improvements will help to accommodate future projected traffic demand and improve driver safety, mobility and efficiency.



A.

Q.

How does a **DDI** help improve traffic flow through the interchange?



A.

The DDI will improve traffic flow at the SR-808/Glades Road and SR-9/I-95 Interchange by reducing the number of turning movements to and from the highway. This significantly reduces the number of vehicle-to-vehicle conflict points. The DDI design also reduces the severity of crashes, as conflicts between left-turning movements and the opposing through movement are eliminated. The DDI will provide a project 33% reduction in crashes at the SR-808/Glades Road and SR-9/I-95 Interchange and a projected 9% crash reduction on Glades Road approaching the interchange.

Q.

Do drivers need special instructions to use a **DDI**?

Drivers do not need special instructions as the DDI model is easily to navigate. Drivers are encouraged to:

- 1) follow overhead signage and pavement markings
- 2) obey traffic signals while crossing through the intersection and
- 3) slow down as you navigate through the new interchange

A.

Q.

How is a **DDI** an improvement over a traditional standard cloverleaf interchange?

A.

A DDI design offers increased safety and mobility features. First, it eliminates the need for left-turning vehicles to cross the paths of oncoming traffic by shifting traffic on SR-808/Glades Road to the left side of the roadway. A DDI also eliminates the severity and frequency of crashes while keeping traffic on the adjacent arterial roads flowing with reduced traffic delays. Additionally, the DDI will provide a projected 33% reduction in crashes at the SR-808/Glades Road and SR-9/I-95 Interchange and a projected 9% crash reduction on SR-808/Glades Road approaching the interchange.

Q.

Are **DDIs** safe for motorists and pedestrians?

The DDI improves safety and mobility for all users.

The DDI design reduces collision conflicts and increases safety by:

- 1) improving sight distance when turning
- 2) reducing the potential for wrong-way movement to and from the highway
- 3) increasing left-turn capacity without the need for additional lanes and
- 4) reducing the number of times vehicles cross paths

A.

Pedestrian safety is prioritized with the inclusion of pedestrian crossovers which feature Rectangular Rapid Flashing Beacons and a dedicated dome-fenced pedestrian bridge in the median area. Cyclists have their own exclusive 7-foot wide bike lane.



For more information on the DDI and to take a virtual drive-through of the new design, please visit the project web page: https://www.d4fdot.com/pbfgdot/glades_road_diverging_diamond_interchange.asp



Q.

What are the advantages of a **DDI**?

A.

Advantages of a DDI include, but are not limited to:

- Safety: a DDI reduces the number of ways vehicles can collide by almost half.
- Increased capacity, mobility and efficiency: a DDI accommodates more traffic than conventional designs and allows drivers to make free-flow right and left turns on to the highway.
- Easy navigation: a DDI guides drivers with overhead signs, pavement markings and traffic signals.
- Multi-modal: a DDI meets the needs of all road users by accommodating vehicles, large trucks, pedestrians and cyclists alike.

Q.

Will the **DDI** improve traffic congestion on SR-808/Glades Road?



A.

The DDI will alleviate congestion on SR-808/Glades Road by improving overall traffic operations by minimizing conflict points and facilitating the smooth flow of traffic by reducing delay times at signalized intersections.

Q.

What are some the specific benefits of the DDI design at the SR-808/Glades Road and SR-9/I-95 interchange?



A.

Implementation of the DDI at SR-808/Glades Road and SR-9/I-95 has several safety benefits including:

- Improved safety and enhanced mobility
- A projected 9% crash reduction along SR-808/Glades Road
- A projected 33% crash reduction at the SR-808/Glades Road and SR-9/I-95 interchange
- Enhanced safety for motorists, pedestrians and cyclists due to reduction of conflict points for all users, dedicated pedestrian pathway and dome-fenced bridge, a dedicated bike lane, overhead signage, pavement markings and Wrong Way Driving Countermeasures.



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FLORIDA DEPARTMENT OF TRANSPORTATION MISSION STATEMENT

THE DEPARTMENT WILL PROVIDE A SAFE TRANSPORTATION SYSTEM THAT ENSURES THE MOBILITY OF PEOPLE AND GOODS, ENHANCES ECONOMIC PROSPERITY AND PRESERVES THE QUALITY OF OUR ENVIRONMENT AND COMMUNITIES.



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