

ATTACHMENT 2

TRAFFIC ANALYSIS PC 22-5

Prepared: September 9, 2022

MPO Model Run Received: August 8, 2022

INTRODUCTORY INFORMATION

Jurisdiction:	Unincorporated Broward County/Broward Municipal Services District
Size:	Approximately 24.2 acres

TRIPS ANALYSIS

Potential Trips – Current Land Use Designation

Current Designation:	Electrical Generation Facilities
Potential Development:	242,000 square feet of electrical generation facility use
Trip Generation Rate:	“ITE Equation (110) General Light Industrial”*
Total P.M. Peak Hour Trips:	194 peak hour trips

Potential Trips – Proposed Land Use Designation

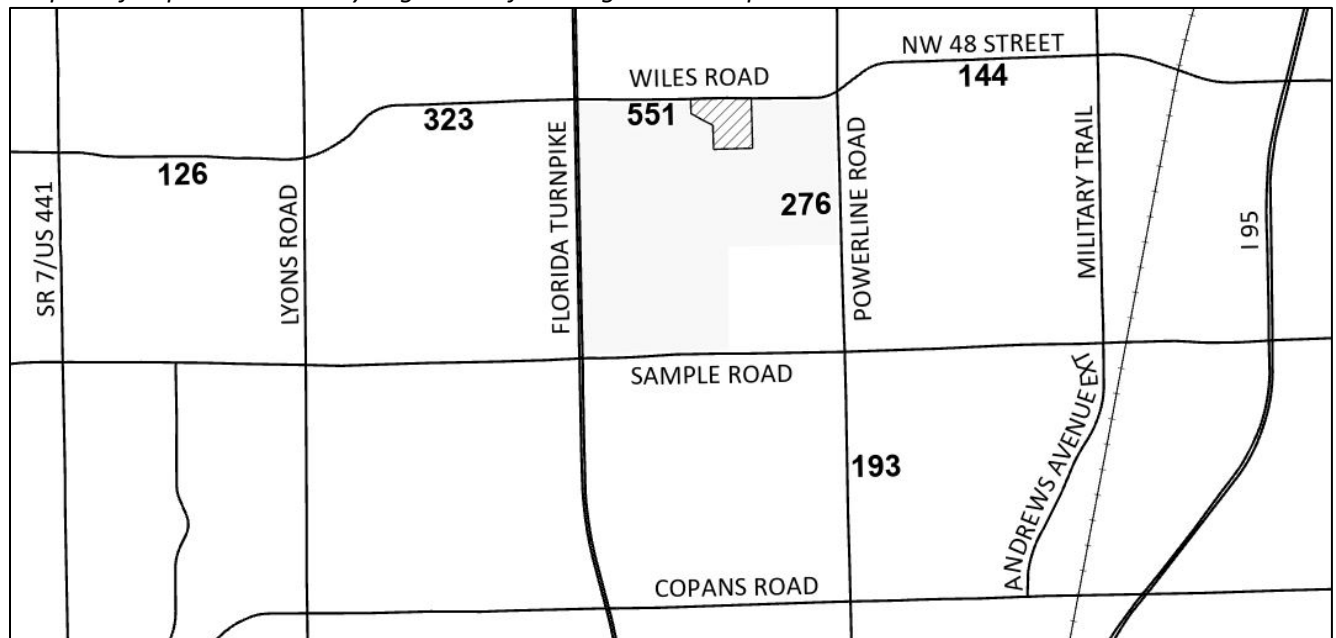
Proposed Designation:	Commerce
Potential Development:	242,000 square feet of commerce use
Trip Generation Rate:	“ITE Equation (820) Shopping Center”
Total P.M. Peak Hour Trips:	1,082 peak hour trips

<u>Net P.M. Peak Hour Trips</u>	<u>+ 888 peak hour trips</u>
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*Institute of Transportation Engineers (ITE) traffic generation equations from “Trip Generation Manual – 11th Edition,” the professionally accepted methodology for estimating the number of vehicle trips likely to be generated by a particular land use.

TRAFFIC ANALYSIS (continued)

Graphic of Impacted Roadway Segments of the Regional Transportation Network:



Impacted Regional Transportation Network Without the Proposed Amendment: Year 2045:

Roadway	Segment	Volume	Capacity	LOS
1. Wiles Road	State Road 7/US 441 to Lyons Road	3,259	3,401	D
2. Wiles Road	Lyons Road to Florida's Turnpike	4,209	3,401	F
3. Wiles Road	Florida's Turnpike to Powerline Road	4,085	3,401	F
4. Northwest 48 Street	Powerline Road to Military Trail	4,171	3,401	F
5. Powerline Road	Copans Road to Sample Road	4,959	5,390	C
6. Powerline Road	Sample Road to Wiles Road	5,064	5,390	C

Impacted Regional Transportation Network With the Proposed Amendment: Year 2045:

Roadway	Segment	Volume	Capacity	LOS
1. Wiles Road	State Road 7/US 441 to Lyons Road	3,385	3,401	D
2. Wiles Road	Lyons Road to Florida's Turnpike	4,532	3,401	F
3. Wiles Road	Florida's Turnpike to Powerline Road	4,636	3,401	F
4. Northwest 48 Street	Powerline Road to Military Trail	4,315	3,401	F
5. Powerline Road	Copans Road to Sample Road	5,152	5,390	C
6. Powerline Road	Sample Road to Wiles Road	5,340	5,390	D

TRAFFIC ANALYSIS (continued)

PLANNING COMMENTS

The proposed amendment is projected to increase traffic on the regional roadway network by approximately 888 p.m. peak hour trips at the long-term planning horizon.

The Broward Metropolitan Planning Organization (MPO) Year 2045 Transportation Plan model analysis distributed the projected additional p.m. peak hour trips to the surrounding regional roadway network.

Said Broward MPO Year 2045 Transportation Plan model analysis distribution of the projected additional p.m. peak hour trips indicates that the proposed amendment would impact the following roadway segments:

The following three (3) regional roadway segments would be adversely impacted:

1. Wiles Road, between Lyons Road and Florida's Turnpike, which is projected to operate at an unacceptable level of service (LOS) "F," with or without the addition of the trips generated by the proposed amendment;
2. Wiles Road, between Florida's Turnpike and Powerline Road, which is projected to operate at an unacceptable LOS "F," with or without the addition of the trips generated by the proposed amendment; and
3. Northwest 48 Street, between Powerline Road and Military Trail, which is projected to operate at an unacceptable LOS "F," with or without the addition of the trips generated by the proposed amendment.

The following three (3) regional roadway segments would be significantly impacted:

1. Wiles Road, between State Road 7/US 441 and Lyons Road, which is projected to operate at an acceptable level of service (LOS) "D," with or without the proposed amendment;
2. Powerline Road, between Copans Road and Sample Road, which is projected to operate at an acceptable LOS "C," with or without the proposed amendment; and
3. Powerline Road, between Sample Road and Wiles Road, which is projected to operate at an acceptable LOS "D," with the additional trips generated by the proposed amendment.