

2031 INTERSECTION CONCEPTS

Greenbrier Drive / Hillsdale Drive



Signalized



Roundabout

Intersection	Approach	Movement	90° to Queue Length (ft)	Turn Bay Length (ft)
Hillsdale Dr and Greenbrier Dr (Signalized)	Hillsdale Dr NB	Left	150	100
		Thru + Right	200	---
	Hillsdale Dr SB	Left + Thru	150	---
		Right	120	100
Greenbrier Dr WB	Left + Thru + Right	240	---	
	Left	150	Full Length	
Hillsdale Dr and Greenbrier Dr (Roundabout)	Hillsdale Dr NB	Left + Thru + Right	400	---
		Hillsdale Dr SB	Left + Thru + Right	120
Greenbrier Dr WB	Left + Thru + Right	40	---	
	Greenbrier Dr EB	Left + Thru + Right	150	---

TYPICAL INTERSECTION

ADVANTAGES

- Normally requires smaller footprint
- Reduces traffic flow

DISADVANTAGES

- Can require signalization
- More points of conflict for pedestrians and vehicles resulting in higher accident rate
- No crosswalk island for increased pedestrian safety
- Unattractive with more pavement area



Seminole Court / Hillsdale Extended



Signalized



Roundabout

Intersection	Approach	Movement	90° to Queue Length (ft)	Turn Bay Length (ft)
Hillsdale Dr and Seminole Ct (Signalized)	Hillsdale Dr NB	Left	140	100
		Thru + Right	180	---
	Hillsdale Dr SB	Left	75	100
		Thru + Right	200	---
Seminole Ct WB	Left	81	100	
	Thru + Right	240	---	
Seminole Ct EB	Left	107	100	
	Thru	137	---	
Hillsdale Dr and Seminole Ct (Roundabout)	Hillsdale Dr NB	Left + Thru + Right	404	---
		Hillsdale Dr SB	Left + Thru + Right	277
	Seminole Ct WB	Left + Thru + Right	190	---
	Seminole Ct EB	Left + Thru + Right	110	---

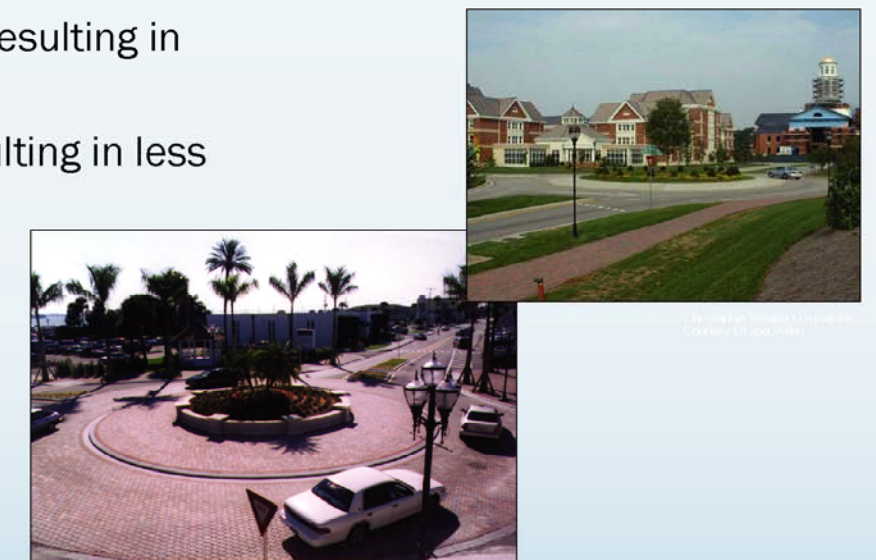
ROUNDBOUT INTERSECTION

ADVANTAGES

- Fewer points of conflict for pedestrians and vehicles resulting in fewer accidents
- Consistent traffic flow resulting in less traffic congestion
- Opportunity to establish community character with planting island in center of roundabout
- Minimal signalization required

DISADVANTAGES

- May require larger footprint



Hydraulic Drive / Hillsdale Extended



Intersection	Approach	Movement	90° to Queue Length (ft)	Turn Bay Length (ft)
Hillsdale Dr and Hydraulic Rd (Signalized)	Hillsdale Dr EB	Left	200	100
		Right	100	100
	Hydraulic Rd WB	Thru	270	100
		Left	600	---
Hydraulic Rd EB	Left	100	100	
	Thru	220	---	