

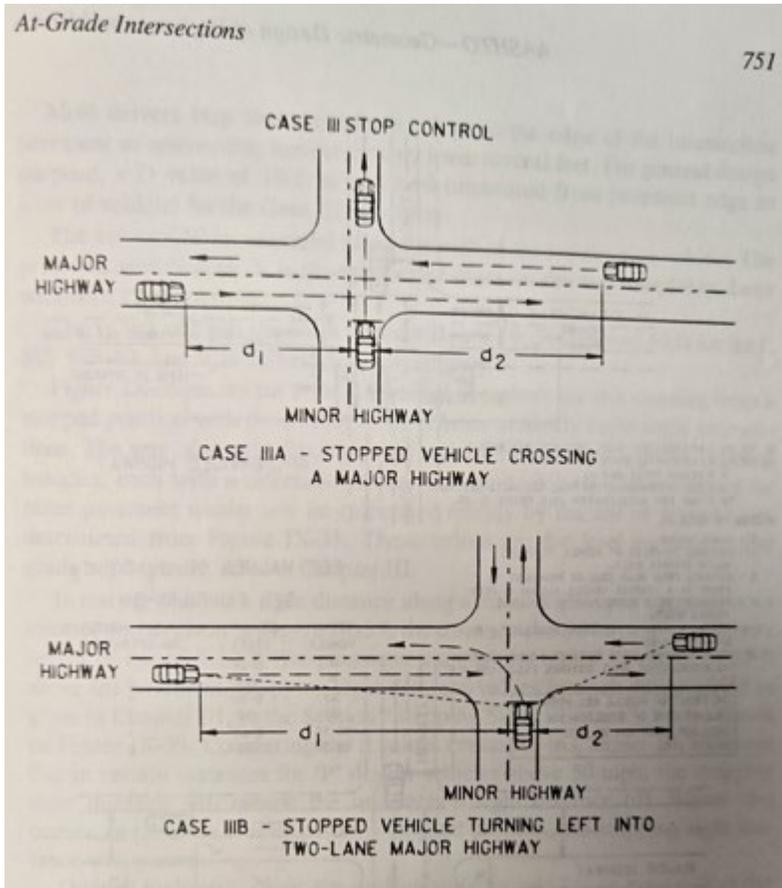
# LINES OF SIGHT

## Engineering Design Standards (Theory)

- **Design Standards are governed by American Association of State highway and Transportation Officials (AASHTO), and locally implemented by FDOT, Broward County and the City.**
- **The required “Sight Distance” is a direct function of the design speeds:**
  1. Stopping distance (distance traveled to stop a vehicle)
  2. Acceleration distance (distance travel to reach a speed)
  3. Passing distance (distance needed to safely overpass a vehicle two-way)
- **In general, Lauderhill roads have a low design speed.**
  1. At 25 mph a vehicle travels 37 feet per second (Residential)
  2. At 30 mph a vehicle travels 44 feet per second (Inverrary Blvd, 56<sup>th</sup> Ave, 50<sup>th</sup> Street, 34<sup>th</sup> Ave)
  3. At 35 mph a vehicle travels 51 feet per second (44<sup>th</sup> Street)



# LINES OF SIGHT



- **Definition of Sight Triangle.**

There must be an unobstructed sight distance (line of sight) along both approaches at the intersection and across their corners to allow operators of vehicles to see each other. Each driver has three possible actions:

1. Accelerate
2. Slow down
3. Stop

- **Sight triangle at Stop Sign.**

Once the vehicle has stopped at the intersection, the driver must have sufficient sight distance to make a safe departure (left or right) through the intersection area

# LINES OF SIGHT

- **Obstructions:**

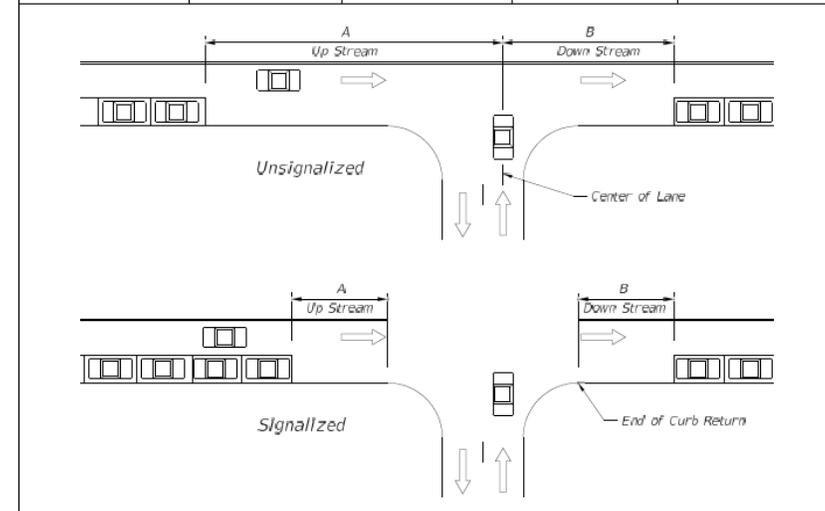
Any object within the sight triangle high enough above the elevation of the driver's point of view that constitutes a sight obstruction should be removed or lowered (signs, fences, hedges, trees, bushes, etc)

- **Other parameters for consideration:**

1. Stop control or traffic signal
2. Angle of intersection
3. Curvature of main road
4. Vertical Curves (N/A locally)

**Table 212.11.2 Parking Restrictions for Driveways and Intersections**

Control Type	Posted Speed (mph)	A - Up Stream (ft)	B - Down Stream (ft)	
			2-Lane	4-Lane or more
Unsignalized	< 35	90	60	45
	35	105	70	50
Signalized	< 35	30	30	30
	35	50	50	50



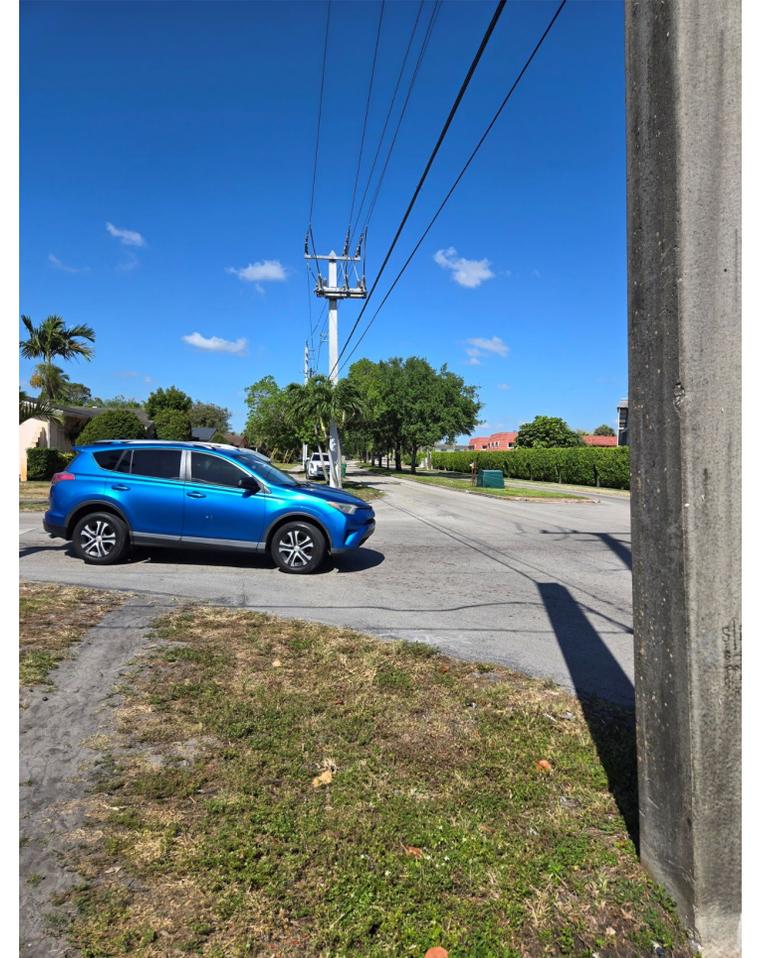
**Notes:**

- (1) For entrances to one-way streets, the downstream restriction (B) may be reduced to 20 feet.
- (2) Do not place parking within 20 feet of a marked crosswalk.

# LINES OF SIGHT

## Found conditions at 16<sup>th</sup> Street and 43<sup>rd</sup> Terr.

- **“Rolled-stop”**: Driver needs to stop to yield to pedestrians and then roll forward to assess if the turning movement (left or right) is safe.
- **“Speed limit”**: Drivers need to obey speed regulation.
- **“Obstructions”**: cars parked, trees, and concrete posts reduce the visibility of incoming traffic.



# LINES OF SIGHT

- Found conditions at 16<sup>th</sup> Street and 43<sup>rd</sup> Terr.

- Recommendations:

1. Install additional speed limit signs
2. Install speed hump
3. Remove trees
4. Code Enforcement to work with parked vehicles
5. Police to help with enforcing speed limits

