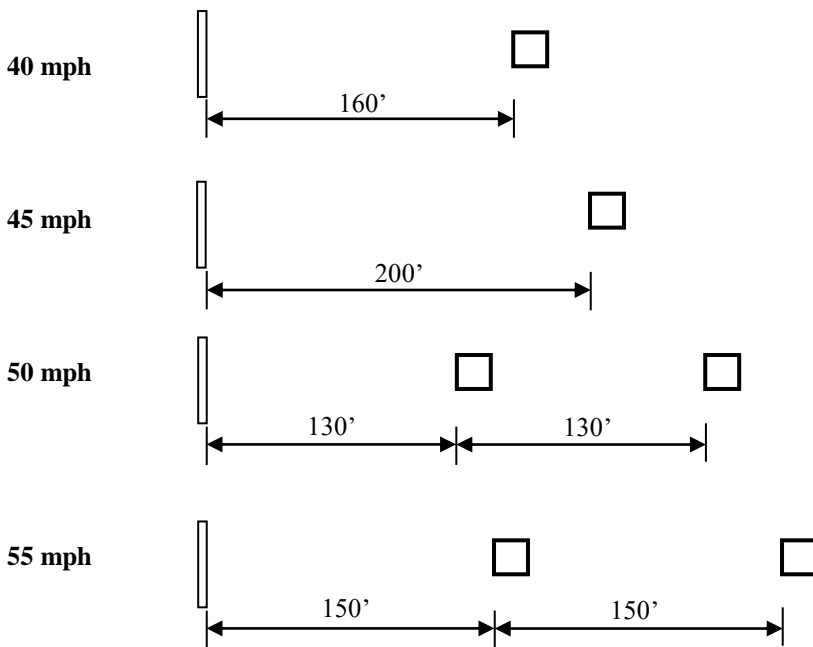


DETECTOR PLACEMENT STANDARD for TRAFFIC SIGNAL DESIGN
VDOT Northern Virginia District
Modified January 2005

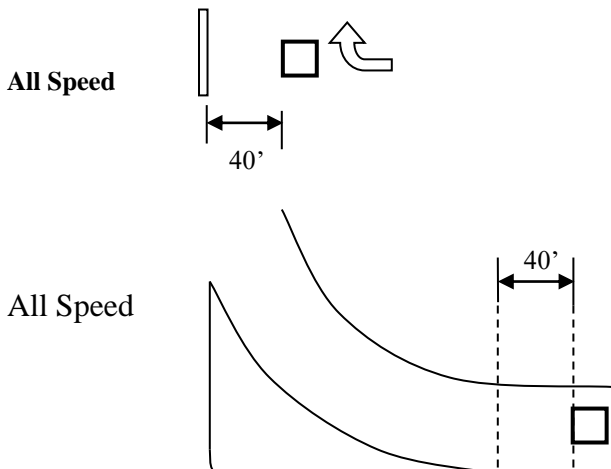
- Coordinated Signal System**



SPEED THROUGH LANE



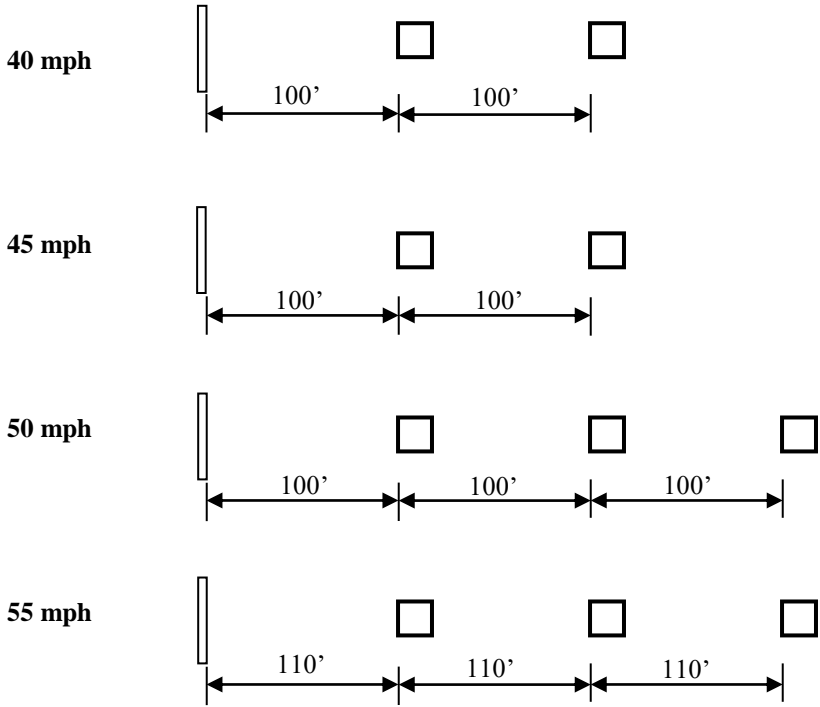
SPEED RIGHT TURN LANE



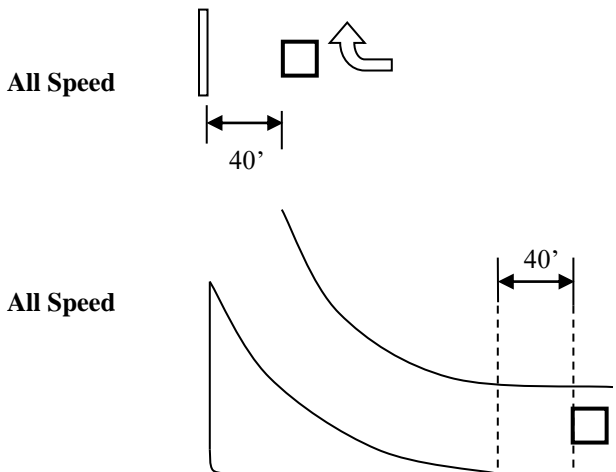
- Isolated Intersections



SPEED THROUGH LANE



SPEED RIGHT TURN LANE



Note:

1. The above graphic demonstrates the detector placement for high-speed (speed > 35 mph) approaches (through lane).
2. For low-speed (speed < 40 mph) approach or side street: detector of 6'x 40' in size needs to be installed in each through lane.
3. Left turn only lane: detector of 6' x 40' in size needs to be installed.
4. Right turn only lane: detector of 6'x 6' in size needs to be installed for collecting traffic counts. For channelized right turn lane, detector should be placed 40' from the leading edge of gore point.
5. All 6' X 40' detectors and 6' x 6' detectors for right turn only lanes should be wired individually. For sets of 6' x 6' detectors, the set farthest from the stop bar should be wired individually and all other sets should be wired in series.
6. Designers must determine if signalized intersection will be in a coordinated signal system or be an isolated intersection.
7. Posted speed limit is applied.