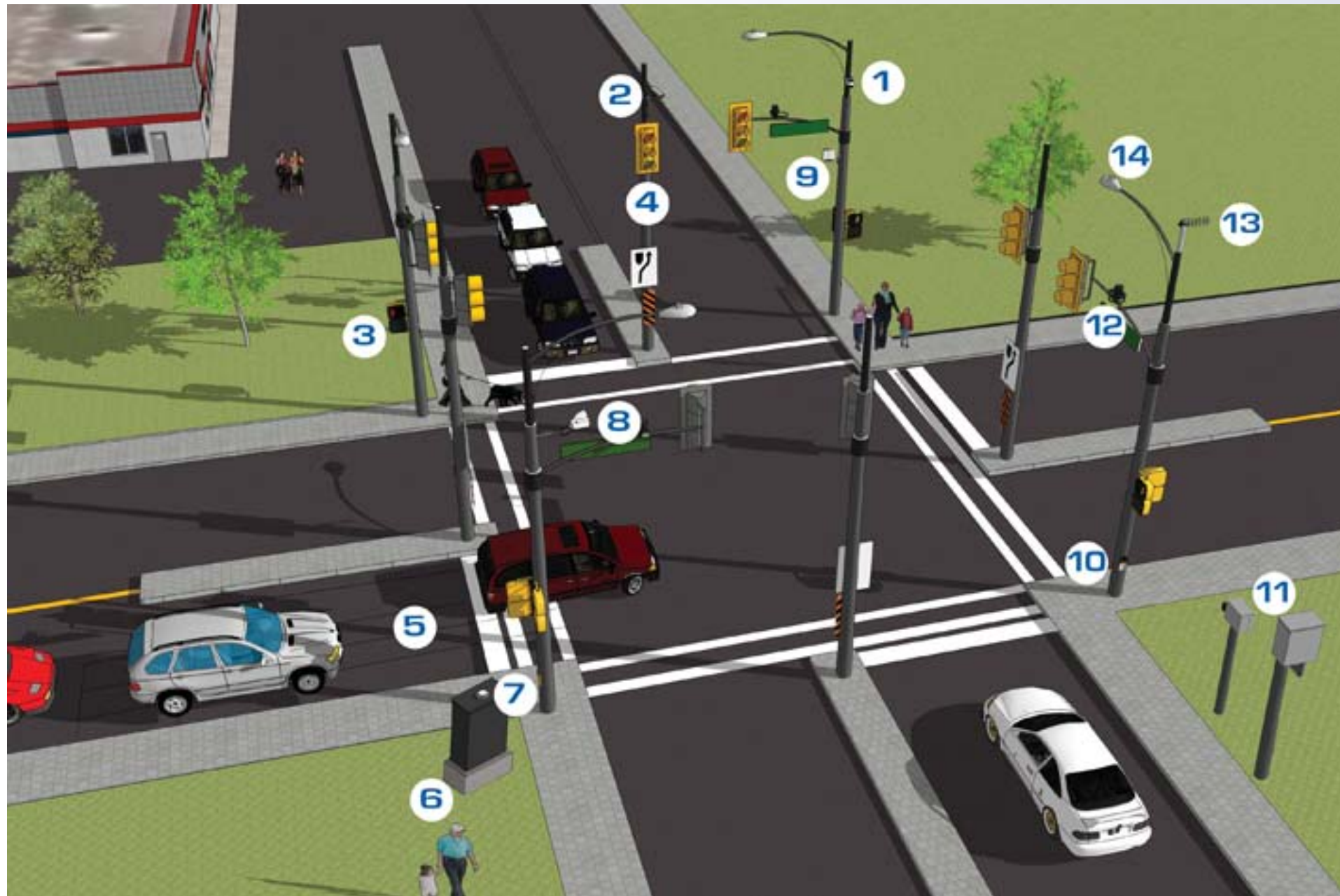


Traffic Signal



Source: Bunt & Associates Photo Database

Applicability

Road Classification:

- Collector streets and arterials.

Types to Consider:

- Half (or Pedestrian) Signal – Permits minor leg to go without waiting for a green phase. Typically used when minor movement demand is pedestrian dominated.
- Full Signal – Semi-actuated (vehicles at minor leg activate signal).

Locations to Avoid

- If near another signal then coordination of signals may be required.
- Where major road spill-back may be problematic (vehicles queuing back towards Highway 1).

Benefits

- Can create gaps in major road volumes.
- Pedestrian benefits through pedestrian activation and more direct routing.
- Smaller intersection footprint.

Disadvantages

- Expensive – initial capital plus maintenance.
- Increased delays to major volume road, i.e. 6 Mile Road vehicles will have a red/stop phase.
- Spreads delays to all approaches (compared to minor leg stop control).

Comparative Analysis: Roundabout vs. Signalized Intersection

	Roundabout	Signalized Intersection
Capacity	=	=
Right of Way Requirements	-	+
Construction Costs	-	+
Maintenance Costs	+	-
Pedestrian Safety	=	=
Vehicle Safety	+	-
Cyclist Safety	-	+
Driver Familiarity	-	+
Environmental	+	-

Comparative Ratings: + (Advantage); - (Disadvantage); = (equal or no significant difference)