



Single-Point Urban Interchange (SPUI)



A **Single-Point Urban Interchange (SPUI)** is a grade-separated highway interchange where a single signalized intersection controls traffic flow.

BENEFITS

- **Enhanced safety** – vehicles cross paths at only one location within a SPUI, which reduces the risk of potential crashes as compared to a conventional interchange.
- **Increased efficiency**— traffic signals operate in three phases as opposed to four phases at conventional interchanges, which increases “green light” times and reduces delays.
- **Increased capacity** – the SPUI design allows for left turns to occur simultaneously and at higher speeds, which increases the number of vehicles that can travel through the intersection.
- **Fewer traffic signals** – the SPUI channels traffic into one intersection, as opposed to two intersections like in a conventional interchange. Fewer intersections mean fewer traffic signals, which means fewer delays for drivers.
- **Reduced right-of-way impacts** – SPUIs have a smaller footprint than conventional interchanges, which reduces the impact on the environment and nearby businesses and residences.

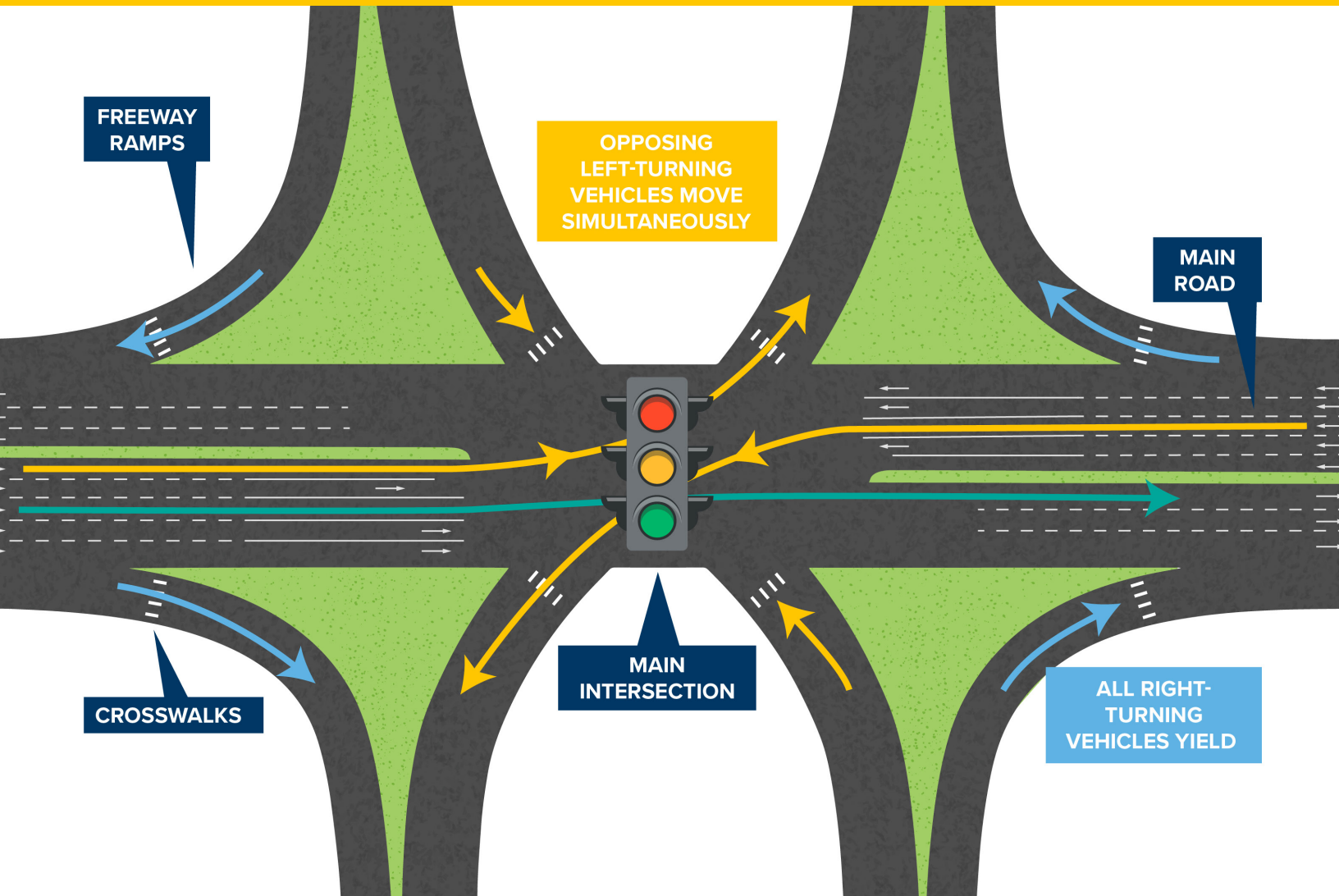


SAFERoad SOLUTIONS

EFFECTIVE ROAD DESIGNS EXPLAINED



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WHAT TO KNOW ABOUT SPUI'S

- SPUI is pronounced SPOO-EE
- All four highway ramps begin or end at the main intersection
- Traffic signals at the main intersection guide all left-turning and straight-forward moving vehicles
- Vehicles turning right are guided by stop or yield signs, away from the main intersection

WHEN TO USE A SPUI

A SPUI design is effective for interchange locations with:

- High left-turning traffic volumes
- A need for increased vehicle capacity
- Limited space for construction