

Grant Road IMPROVEMENT PLAN

DESIGN INNOVATIONS —

Indirect Left Turn

FASTER • SAFER • GAS SAVING

HOW THE INDIRECT LEFT TURN BENEFITS YOU ...

A Shorter Wait at Light

- Reduces the amount of time vehicles are stopped at the intersection by 42%.

More Fuel Savings

- Reduces fuel consumption by approximately 9% for all vehicles using the intersection.

Safer

- Reduces total crashes at intersections by 16% and injury crashes by 30%.

Smaller Intersections

- Smaller intersection means less right-of-way needed, lower costs, and possibility of preserving existing businesses and reduces the distance pedestrians have to cross by 20 feet.

A **traffic signal** located 600-700 feet east and west of the intersection will stop approaching traffic to allow U-turns into a **designated right-turn lane**. Drivers then return to the intersection to complete their turn.

The **'bulb out'** allows large vehicles to easily make the U-turn.

These **traffic signals** are timed with the intersection to limit through traffic to one stop only

Pedestrians cross **safely here**. Bicycles use a **'box turn'** at the intersection.

The Indirect Left will dramatically increase east-west mobility for vehicles and buses.

The 'bulb out' allows U-turns for larger vehicles such as buses and semi-trucks.

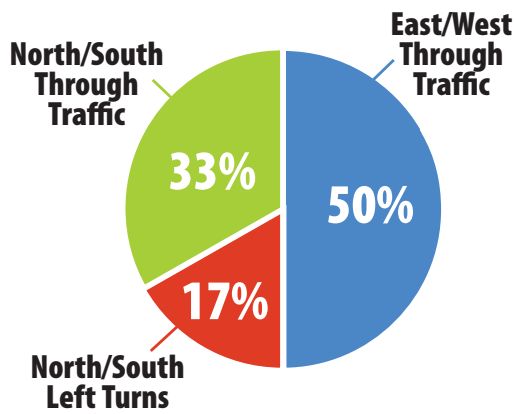


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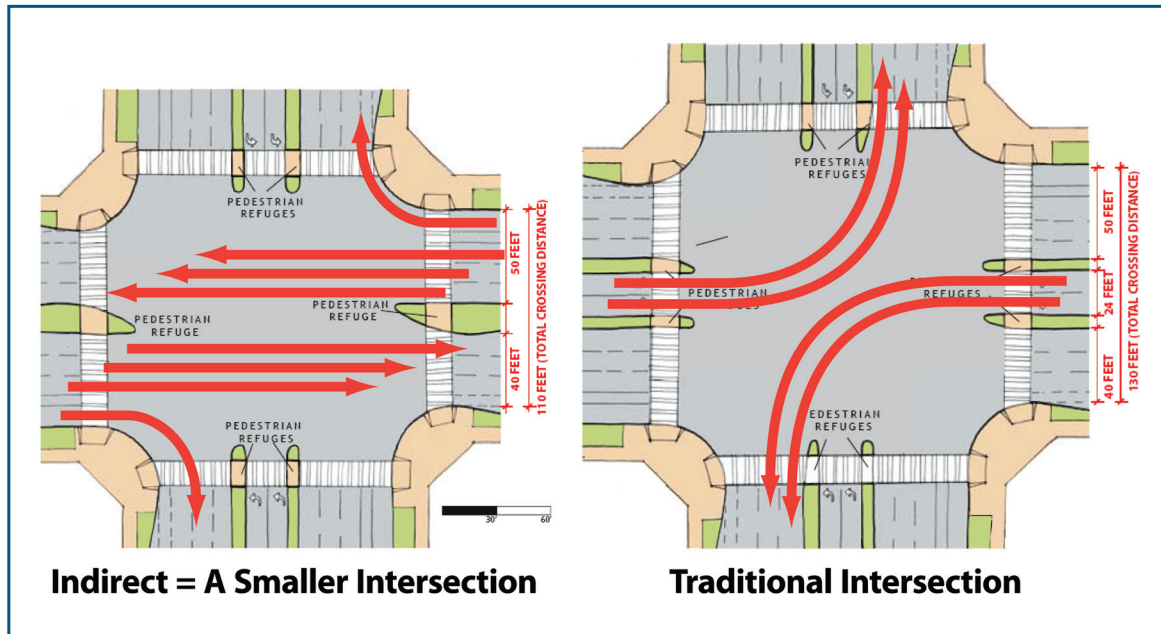
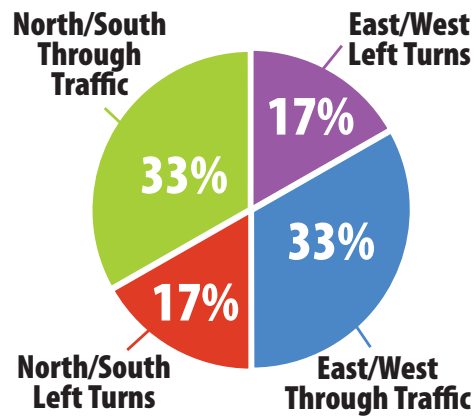
Improving East-West Travel

The Indirect Left Turn Intersection Design allows significantly more time to be given to traffic moving east-west along Grant Road.

Indirect Left Turn Traffic Signal Timing



Traditional Traffic Signal Timing



The Indirect Left Turn is planned for six major intersections along Grant Road:

- Alvernon Way
- 1st Avenue
- Country Club Road
- Stone Avenue
- Campbell Avenue
- Oracle Road