Aquidneck Island Planning Commission

Aquidneck Island Transportation Study

On the move...connecting our communities

Preliminary Roadway Improvement Alternatives

1. PELL BRIDGE ACCESS IMPROVEMENTS

- Remove elevated highway and provide direct connection from North End to Downtown
- Address high crash locations
- Significant economic development opportunity
- Ideal location for future multimodal center
- Install roundabouts where feasible

2a. BURMA ROAD 2 LANES WITH NORTH AND SOUTH CONNECTIONS

- Makes Burma Road a viable north/south corridor
- Would provide improved access to Navy properties and future Tank Farm developments

2b. BURMA ROAD 4 LANES WITH NORTH AND SOUTH CONNECTIONS

- Results in moderate to significant shifts in traffic from West/East Main Roads
- Could allow for a reduction from four to two travel lanes on East Main Road, which would allow for wide shoulders for bicyclists

3a. TWO MILE CORNER, GEOMETRIC IMPROVEMENTS

- Add left-turn lanes on West Main Road
- Widen Coddington Highway approach to provide third lane
- Modify right-turn movements to/from East Main Road to reduce turning radii

3b. TWO MILE CORNER, ROUNDABOUTS

- Replace traffic signals with roundabouts
- Results in decreases in vehicle delays and speed
- Significant crash reduction
- Improved access management

3c. TWO MILE CORNER, REALIGNMENT

- Realign East Main Road with Coddington Highway
- Eliminate one traffic signal at high crash location

4. CORYS LANE/HEDLEY STREET REALIGNMENT

- Realign Corys Lane with Hedley Street to eliminate one traffic signal at high crash location
- Provide left-turn lanes

5. WEST MAIN ROAD LEFT-TURN LANES

- Widen to provide left-turn lanes at:
  - Oliphant Lane
  - Forest Avenue
  - Union Street
  - Raytheon Drive
- Decreases delays, facilitates signal coordination

6. LOCALIZED INTERSECTION SAFETY/ CAPACITY IMPROVEMENTS

- Address other bottleneck/concern locations
  - Valley Road/Aquidneck Avenue Roundabout
  - Aquidneck Avenue/Purgatory Road Realignment
  - Mt Hope Bridge/Boyds Lane/Bristol Ferry Road Intersection Reconfiguration
  - Seveney Sports Complex (Linden Lane)
  - Memorial Blvd Road Diet
- Additional improvements from Road Safety Assessments to be determined

7. TRAFFIC SIGNAL OPTIMIZATION

- Coordinate closely spaced traffic signals
  - West Main Road
  - East Main Road
  - Americas Cup Avenue
- Develop a program to maintain equipment and regularly fine-tune signal timings

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