SAFE ROUTES TO SCHOOL PROGRAM

PURPOSE

To Develop a Procedure for Establishing Safe Routes to School (SR2S) for Elementary Schools

Miami-Dade County
SAFE ROUTES TO SCHOOL PROGRAM

BENEFITS of SR2S PROGRAMS

- Promote Walking & Bicycling to School
- Enhance Bicycle and Pedestrian Safety
- Improve Quality of Life
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APPROACHES TO SR2S PROGRAMS

- Encouragement
- Education
- Engineering
- Enforcement
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SELECTION OF SCHOOLS FOR PILOT PROJECT

- Review Pedestrian Crash Records
- Identify High Pedestrian Crash Areas
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SELECTION OF SCHOOLS FOR PILOT PROJECT

- Selected 15 Elementary Schools in Liberty City
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BACKGROUND RESEARCH

Resources

- Safe Routes to School, NHTSA
- Safe Ways to School, “Tool Kit”, The Florida Traffic and Bicycle Safety Education Program
- School Trip Safety Program Guidelines, ITE
- Walk to School Safety Program, Walk Boston
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BACKGROUND RESEARCH
Case Studies

- Marine County, California
- The Bronx, New York
- Parkmead, California
- Greenest City, Toronto Canada
- Hampshire, England
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PILOT PROJECT

Data Collection

- Field Reviews
- User Surveys
- Interviews (Principals, Parents, Students)
- Existing Safe Route Maps
- Land Use
- School Boundaries
- Traffic Control Devices (Signals, Signs, Pavement Markings)
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PILOT PROJECT
Evaluation of Alternative Routes

- Establish Safe Route Criteria
- Develop Evaluation Matrix

Major Criteria
- Low Traffic Volume
- Low Speeds
- No Railroad X-ings
- No Canals
- No Security Concerns

Other Criteria
- Continuity of Streets
- # of Driveways
- Sight Obstructions
- Proximity of Police/Fire Station
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PILOT PROJECT
Preliminary SR2S Maps and Reviews

- Develop Preliminary SR2S Maps
- Reviews (SAC, Principals, PTA)
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**PILOT PROJECT**

Final SR2S Maps

- Develop Final SR2S Maps
- Instructions – English, Spanish, Creole
- Recommends for Improvements to Safe Routes

## Engineering Methods

<table>
<thead>
<tr>
<th>Objective</th>
<th>Pedestrian Design</th>
<th>Bicycle Design</th>
<th>Intersection Design</th>
<th>Traffic calming</th>
<th>Signals and Signs</th>
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</thead>
<tbody>
<tr>
<td>Improve mobility and reduce exposure for pedestrians and bicyclists</td>
<td>Sidewalk/Walkway</td>
<td>Add bike lane/shoulder</td>
<td>Curb extensions</td>
<td>Curb extensions</td>
<td>Traffic signal</td>
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<tr>
<td></td>
<td>Curb ramps</td>
<td>Road narrowing</td>
<td>Choker</td>
<td>Raised pedestrian crossing</td>
<td>Signal enhancement, e.g., countdown, audible</td>
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<tr>
<td></td>
<td>Crosswalk enhancements</td>
<td>Bicycle Narrowing</td>
<td>Pedestrian crossing island</td>
<td>Raised intersection</td>
<td>Accessible pedestrian signal</td>
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<tr>
<td></td>
<td>Bus stop improvements</td>
<td>Widened outside lane or shoulder</td>
<td>Raised intersection</td>
<td>Crosswalk enhancements</td>
<td>Signal timing</td>
</tr>
<tr>
<td></td>
<td>Overpasses/underpasses</td>
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</tbody>
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- Improve sight distance and visibility for motor vehicles, pedestrians, and bicyclists
- Reduce speed of motor vehicles
- Reduce volume of motor vehicles
- Improve compliance with traffic laws

- Gateway treatment
- Partial street closure
- Turning restrictions
- Speed feedback signs

- Red-light camera
- Mini-circle
- Countdown signals
- Improved timing to discourage jaywalking

- Choker
- Chicanes
- Speed humps
- High visibility and warning signs
- Neighborhood signs
- Speed monitoring trailer
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PILOT PROJECT
Final SR2S Maps
Table of Contents

- Establish Technical Advisory Committee
- User Surveys
- Data Research and Field reviews
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- Preliminary Safe Route Selection
- Review and Comments
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