Project Goals

- Increase Travel Safety and Efficiency
- Increase Capacity, Improve Mobility, and Reduce Travel Time
- Fit Road Improvements within the existing Environment and Communities
Project Background

- The next Route 347 project will be progressed over the next few months. This includes the area between Mount Pleasant Road and Terry Road.

- This is being progressed as a **Design-Build** type project.

- Construction is currently expected to begin in Spring 2014.
Project Features

Mobility & Safety Features
- Increase travel lanes in each direction - 3 lanes Mt Pleasant Rd to Terry Rd
- Increased left turning lane capacity
- New decorative median
- Traffic calming features such as narrowed lanes and street trees
- Reduced speed limit to 45 mph

Bicycle, Pedestrian, & Environmental Features
- Upgraded & additional sidewalk
- New crosswalk markings with shorter crossing distances & pedestrian activated signals
- On-road and off-road bicycle improvements
- Treatment of stormwater runoff which may include recharge basins, bio-swales, or rain gardens
- Sound wall option at select locations
- New planting along pedestrian and bicycle paths; trees, shrubs, groundcover, wildflowers
Typical Cross Section

New Sound Wall(s) or Low Screen at/near ROW Line
Sound Walls

- The input from all residents who would benefit from sound walls will be obtained to determine the community’s preference for the recommended sound walls. The opinion of only these residence influence the final decision regarding whether or not sound walls are constructed.

- Project information sheets and sound wall questionnaires have been provided to all residents within Hidden Ponds. At least half must be returned by mail to the NYSDOT regional office for a final sound wall decision to be made.
Four Areas East of Mt. Pleasant Road

Sound Wall Analysis

Based on the proposed design changes to the roadway and associated noise analysis, it was determined that noise abatement (sound walls) beginning east of Mount Pleasant Road and extending east along both the eastbound and westbound side of Route 347 to Terry Rd would meet the Federal Highway Administration’s and NYSDOT’s criteria for further consideration.
Sound Comparisons

Common Indoor and Outdoor Noise Levels

<table>
<thead>
<tr>
<th>Common Outdoor Noises</th>
<th>Sound Level (Decibels)</th>
<th>Common Indoor Noises</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jet Flyover (1,000 feet)</td>
<td>140</td>
<td>Threshold of pain</td>
</tr>
<tr>
<td>Gas lawn mower (3 feet)</td>
<td>130</td>
<td>Rock band (at 15 feet)</td>
</tr>
<tr>
<td>Diesel truck (50 feet)</td>
<td>120</td>
<td>Food blender (at 3 feet)</td>
</tr>
<tr>
<td>Urban daytime</td>
<td>110</td>
<td>Garbage disposal (at 3 feet)</td>
</tr>
<tr>
<td>Gas lawn mower (100 feet)</td>
<td>100</td>
<td>Vacuum cleaner (at 10 feet)</td>
</tr>
<tr>
<td>Heavy traffic (300 feet)</td>
<td>90</td>
<td>Normal speech (at 3 feet)</td>
</tr>
<tr>
<td>Typical urban daytime</td>
<td>80</td>
<td>Dishwasher (next room)</td>
</tr>
<tr>
<td>Urban nighttime</td>
<td>70</td>
<td>Library</td>
</tr>
<tr>
<td>Rural nighttime</td>
<td>60</td>
<td>Bedroom (at night)</td>
</tr>
<tr>
<td></td>
<td>50</td>
<td>Whisper</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>Threshold of hearing</td>
</tr>
<tr>
<td></td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Note: Sound is perceived differently by every individual.
What future road noise will I hear compared to today?
- 1-2 dB increase at your exterior use areas due to the roadway improvements.

How much will a sound wall reduce the future road noise due to the roadway improvements?
- 5 dB or greater noise reductions will be obtained at all benefited properties’ exterior active use areas.
- 10 dB or greater noise reductions may be obtained at properties with exterior active use areas immediately adjacent to the proposed sound walls.

<table>
<thead>
<tr>
<th>Change in Sound Level (dB)</th>
<th>Human Perception of Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 to 3</td>
<td>Barely perceptible</td>
</tr>
<tr>
<td>5</td>
<td>Readily noticeable</td>
</tr>
<tr>
<td>10</td>
<td>A doubling or halving of the loudness of sound</td>
</tr>
<tr>
<td>20</td>
<td>A “dramatic” change</td>
</tr>
<tr>
<td>40</td>
<td>Difference between a faintly audible sound and very loud sound</td>
</tr>
</tbody>
</table>
**Primary Noise Contributors, Receptors, and Sound Wall Function**

**Road Noise generated by:**
- Tires rolling on pavement
- Vehicle Exhaust and Engine

**Noise Analysis Results at Receptor Locations influenced by:**
- Distance to the road
- Proximity to other structures/homes
- Topography of road and exterior use areas
Noise Analysis & Sound Wall Decision-Making Process

- Community Consensus Process to determine desire for or against Sound Walls
  - If Sound Walls are desired by the community
    - Final Design of Concrete Sound Walls
  - OR
    - If Sound Walls are not desired by the community
      - Final Design of Vegetated Screening
Noise Abatement Consideration
Eastbound side of Route 347 from Mt Pleasant Road to Suffolk County Preserve

Approximate Limits of Survey Group for Potential Sound Wall

Location of Potential Sound Wall
Average Height 17 - 22 Feet

New York State Department of Transportation
Region 10, Long Island
September 18, 2013
Typical Bird’s Eye View of Route 347
Existing Conditions

Route 347 View East

Route 347 View East

Mt. Pleasant Rd

Insignia Restaurant Driveway

Hidden Ponds Development

New York State Department of Transportation
Region 10, Long Island
September 18, 2013
Typical Bird’s Eye View of Route 347 with the Potential Sound Wall

Route 347 – View East

Mt. Pleasant Rd

Potential Sound Walls

Hidden Ponds Development

Insignia Restaurant Driveway

Route 347 - View East

New York State Department of Transportation
Region 10, Long Island

September 18, 2013
Typical Bird’s Eye View of Route 347 with the Potential Vegetated Screening

Route 347 – View East

Hidden Ponds Development

Insignia Restaurant Driveway

Potential Vegetated Screening

Mt. Pleasant Rd
Highway view of the Sound Wall
Residential view of Sound Wall
View of existing Vegetated Screening
Summary

- A project information sheet and sound wall questionnaire has been provided to the entire community of Hidden Ponds for their information.

- At least half of the questionnaires must be mailed back to the NYSDOT regional office to determine if there is consensus among the community regarding whether or not a sound wall is preferred at each location. **Due date October 3, 2013.**

- Once there is a community consensus determination, either sound walls or vegetated screening will be included in the final detail design of the project which will be completed by the Design-Build team under contract with the NYSDOT.

- The NYSDOT Route 347 project website will be updated with the final community consensus results and sound wall determination.

- Construction is anticipated to begin in the Spring 2014
Route 347
Safety, Mobility & Environmental Project

Route 347 / Mt. Pleasant Road to Terry Road
PIN 0054.22
Town of Smithtown

Questions?

Comments & questions may be directed to:
NYSDOT Region 10’s - Regional Public Involvement Coordinator (RPIC)
Margaret Conklin, phone #: 631-952-6929