



FM 1103 (from I-35 to South of Rodeo Way) Noise Barrier Workshop

December 3, 2019 6:00 P.M.



Tuesday, December 3, 2019

Noise Barrier Workshop Agenda

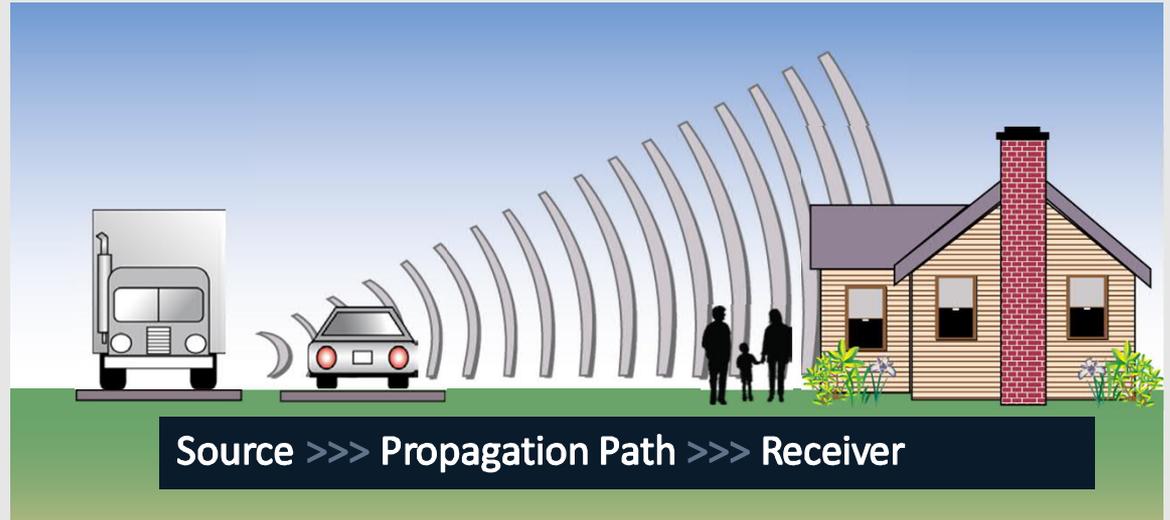
- Presentation
- Open House – View Exhibits/Questions
- Options to Submit Ballot
 - Leave Ballot with Staff
 - Send by Mail:
 - WSP, Attn: Mike Chavez, 1601 S. Mopac Expwy, Suite 325,
Austin, TX 78749
 - Send by E-Mail – Mike.Chavez@WSP.com

Project Location

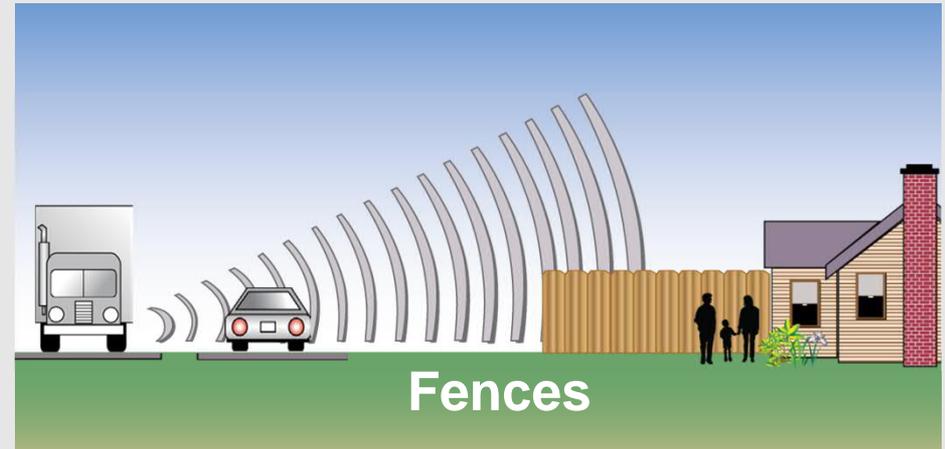
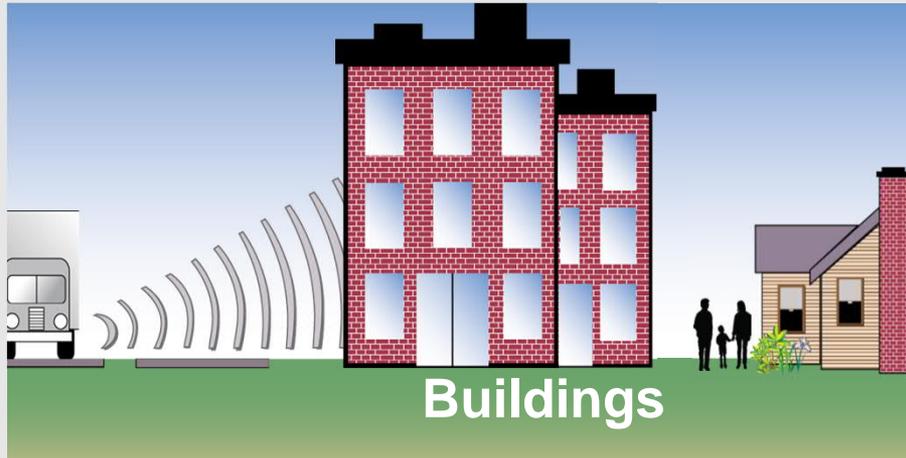


Highway Traffic Noise

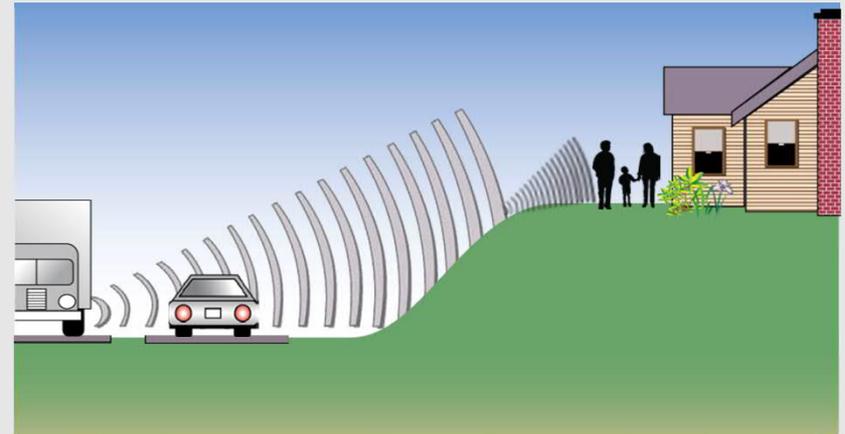
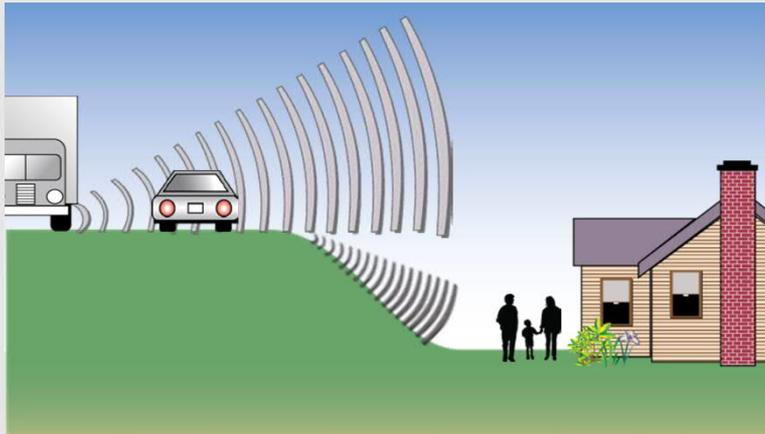
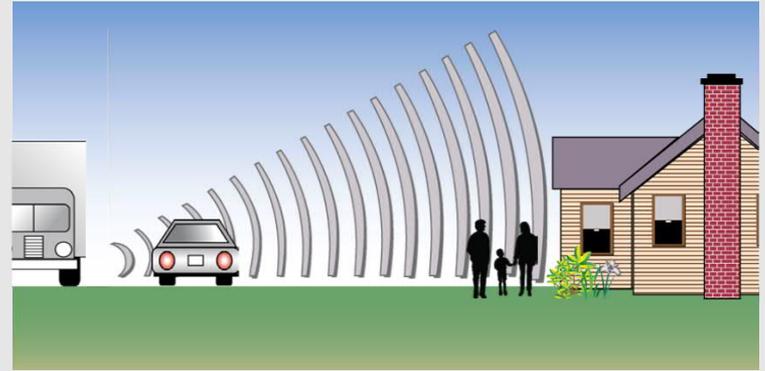
- Produced from tires, engines, and mufflers of cars and trucks
- Measured either by a sound meter or predicted by computer program
- Depends on the number and speed of vehicles, the terrain, and the distance between the highway (source) and listener (receiver)



Highway Traffic Noise

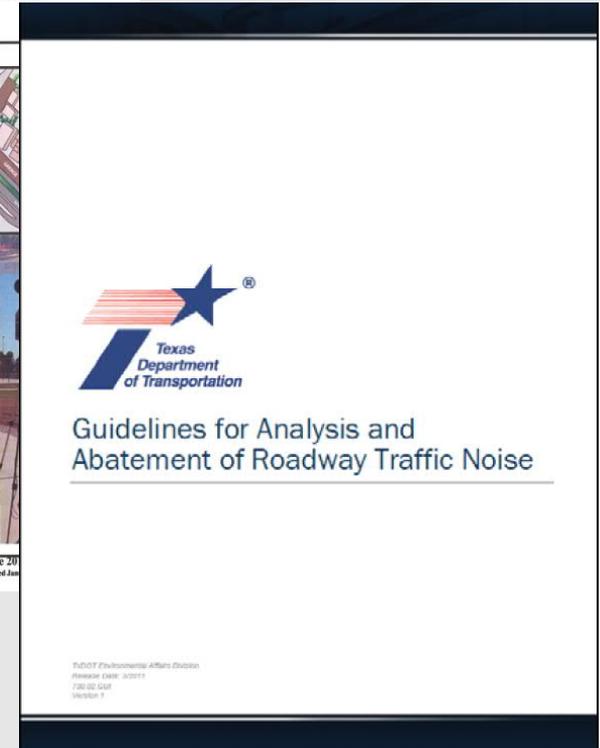
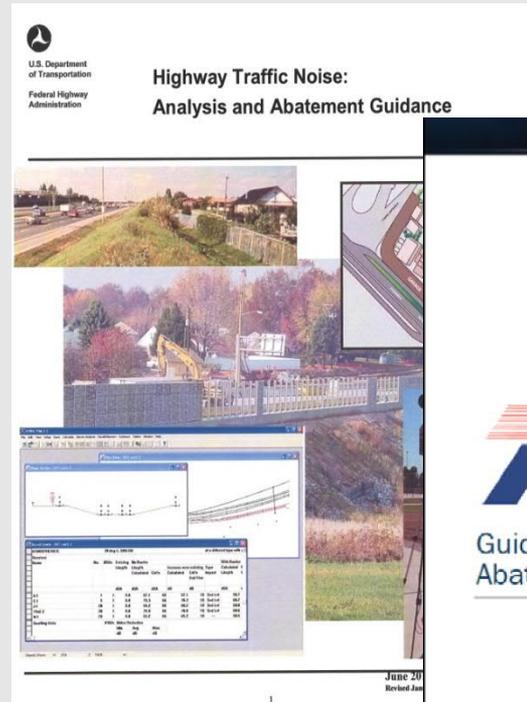


Topography



Traffic Noise Analysis

- FHWA regulation on highway traffic noise requires that we conduct noise studies when:
 - Utilizing federal funds
 - Adding capacity on existing highways
- TxDOT guidelines (FHWA approved) used to perform this analysis
- The purpose of our noise study is to learn whether noise will have an impact on nearby outdoor areas frequently used by people



Our Noise Study does What?

- Identifies land use and activity areas that may be impacted by highway traffic noise
- Determines existing noise levels
- Predicts noise levels 20 years in the future for No-Build and Build Alternatives
- Examines and evaluates ways to reduce noise impacts (abatement measures)



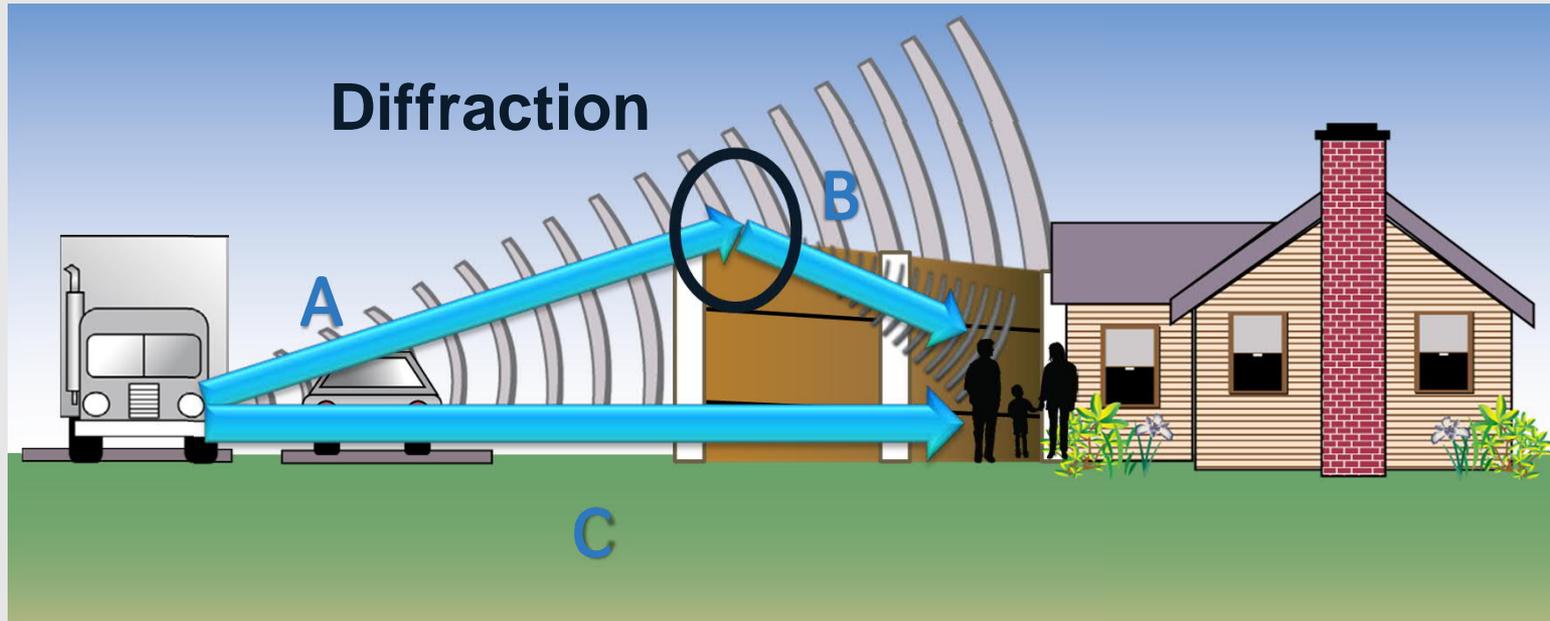
Noise Abatement Consideration

- Noise abatement refers to the positive action taken to reduce the impact of noise from highway traffic on an activity area
- Noise abatement on this project:
 - ✓ **Noise Barriers (sound walls)**
- Noise barriers evaluated to determine if they are feasible AND reasonable



Photos taken from FHWA Keeping the Noise Down Guidebook

How Noise Barriers Work



$$A + B > C$$

= Longer Path Length

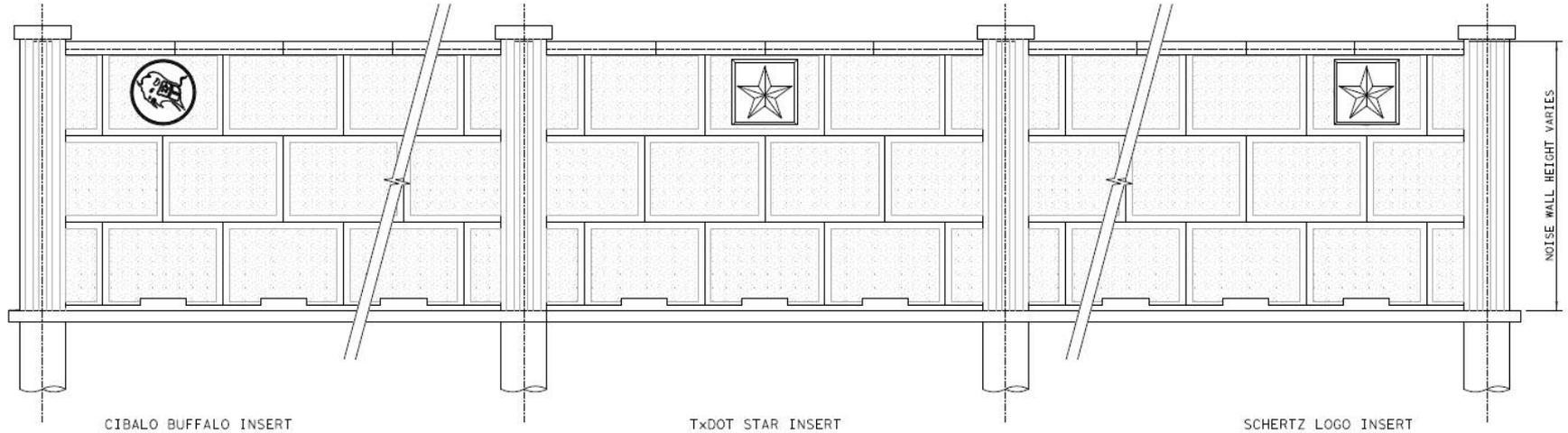
How Do People React to Noise Barriers?

- Negative reactions may include:
 - Restrictions of view
 - Feeling of confinement
 - Reduced air circulation
 - Reduced lighting and sunlight
 - Removal of vegetation, loss of trees

Proposed Project Layout



Hill Country Theme Noise Barrier



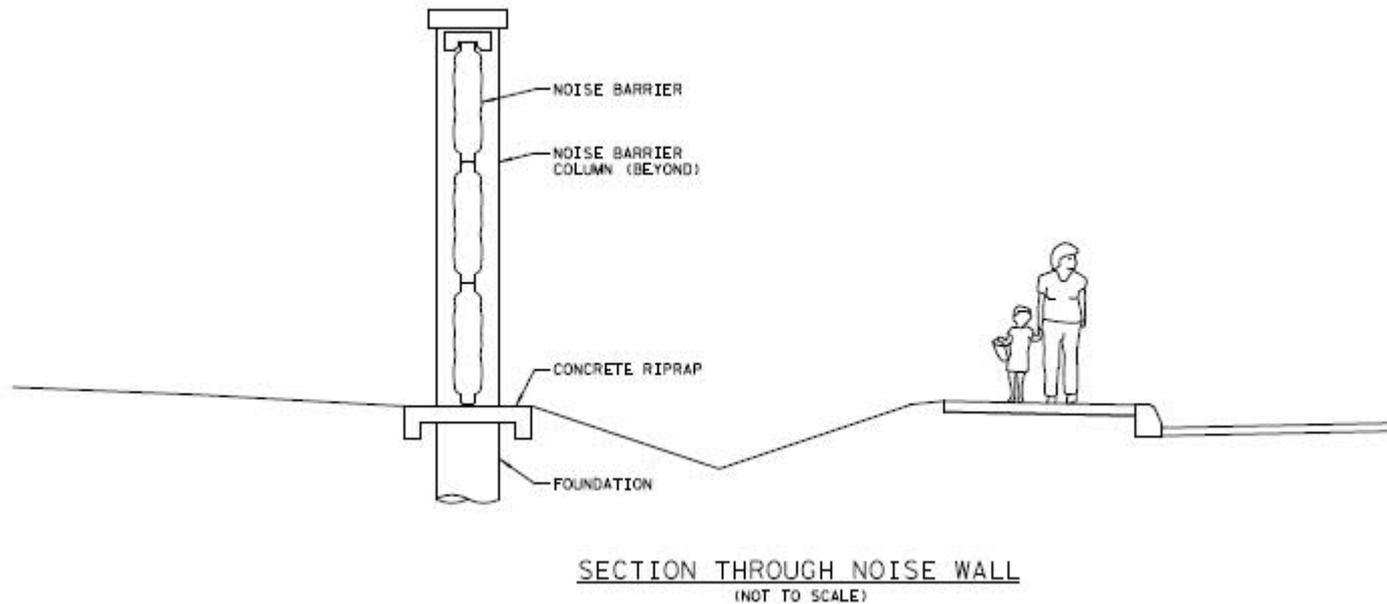
CIBALO BUFFALO INSERT

TxDOT STAR INSERT

SCHERTZ LOGO INSERT

NOISE WALL ELEVATION
(VIEW FROM FM 1103)
(VIEW FROM NEIGHBORHOOD SIMILAR, BUT WITHOUT LOGOS)
(NOT TO SCALE)

Noise Barrier Conceptual Design



Hill Country Theme Noise Barrier Example



- Cross Sections
- Plan View
- Wall Profiles
 - View of Wall from Roadway
 - Conceptual Design

Noise Barrier Vote

- Recommendations are based on TxDOT guidelines as outlined in 23 CFR 772 (Code of Federal Regulations) and Federal Highway Administration Policy and Guidance for Highway Traffic Noise Analysis and Abatement
- No noise barrier will be constructed without the approval, by simple majority vote of the owners of properties adjacent to the proposed noise barriers
- Each Qualifying Property Ownership is allowed one vote
- Please Vote!! Ballot must be postmarked no later than Friday, December 13, 2019

Questions?

- Options to Submit Ballot
 - Leave Ballot with Staff
 - Send by Mail:
 - WSP, Attn: Mike Chavez, 1601 S. Mopac Expwy, Suite 325, Austin, TX 78749
 - Send by E-Mail – Mike.Chavez@WSP.com