TH 41 Roadway Expansion (us 212 to Pioneer Trail)









NOISE WALL **MPLEMENTATION**

Why is Noise Analysis Required for this Project?

- The project has federal funding
- The project is to expand a MnDOT highway (additional through lane in each direction)

What is the Primary Purpose of the Noise Analysis

- To determine if a noise wall or walls will be included in the project
- Other potential noise mitigation options are unlikely for this project

What is the Regulatory Background?

 Federal noise standards – overseen by the Federal Highwa Administration (FHWA)

- MnDOT Noise Policy State noise standards Minnesota Pollution Control Agency (MPCA) overseen by the
- Incorporates federal and state standards; has been approved by FHWA and MPCA
- Defines methods and procedures to on highway projects in Minnesota determine if noise walls will be constructed

standardized analytical procedures and local decision process which incorporates both preferences Goal is to provide a consistent and balanced





Quiet rural nightime

Dishwasher in next room

ies show that changes in e levels of less than 3 bels are not typically ctable by the average humar

An increase of 5 decibels is generally noticeable by anyone, and a 10-decibel increase is usually felt to be twice as loud.

NFORMATION NOISE WALL

- Typical noise reduction of 5 to 10 decibels
- this height Maximum height of 20 feet; most are
- Often constructed with concrete support posts with wood planks
- Average cost of \$20 per square foot (\$2.1 million per mile)
- Local desirability factors:
- Aesthetics
- Neighborhood feel

supports noise wall? Technical Analysis

locally?

Public outreach

information

Yes

noise wall(s)

Construct

Noise wall supported

Noise reduction performance

Noise thresholds

exceeded?

Federal Standards

State Standards

oN

οN

Site constraints/ constructability

Yes

Standardized voting

process - adjacent

landowners/residents

- formula Cost-effectiveness
- ON

Do not construct noise wall(s)

Do not construct

noise wall(s)

No further action required







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