

Purpose



- ✓ Provide I-290 study overview
- ✓ Present noise analysis process and findings
- Explain process for getting a noise wall
- ✓ Show noise wall options
- ✓ Provide opportunity for you to ask questions



Questions? Study team members will respond to anonymous questions presented by a moderator. If you have a question, please write it on this card and drop it in the question box. Also, please feel free to speak to one of the Study Team representatives.

Thank you for your participation!



Q&A Session

Please submit your comment card to a study team member







JOINT LEAD AGENCIES

Illinois Department of Transportation and Federal Highway Administration

Project Consultant Team

Parsons Brinckerhoff – Prime Consultant

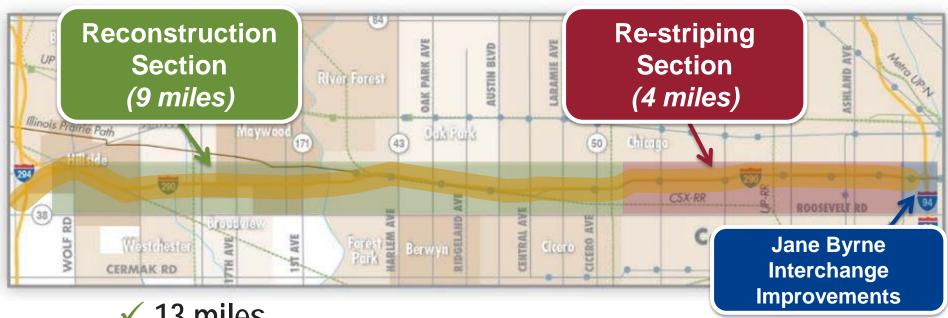


I-290 Planning Process Overview

- Initiated in Fall 2009
- Environmental Impact Statement (EIS)
 - ✓ Most rigorous process for a transportation project
 - ✓ Formal agency reviews
 - ✓ Federal Highway Administration (FHWA) oversight
 - Engineering, environmental, stakeholder involvement considerations
- Context Sensitive Solutions (CSS)
 - ✓ Addresses all factors: safety, mobility, community, environment
 - ✓ Engages stakeholders on all factors



I-290 Study Area

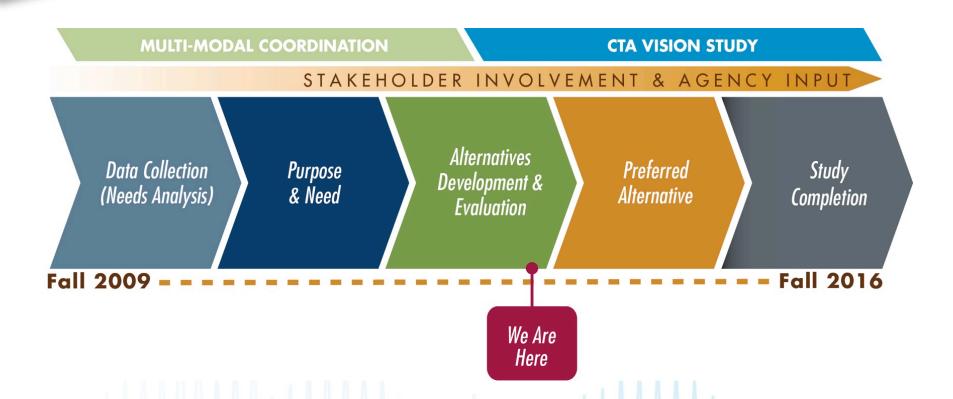


- ✓ 13 miles
- ✓ West of Mannheim Road to Racine Avenue
- ✓ Connects between:
 - I-88 on the west
 - Jane Bryne Interchange on the east



I-290 Study Overview







Public Involvement Efforts







Four Alternatives Advancing

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IDOT and CTA team up to enhance transit planning in the I-290 Corridor

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6Newsletters and Factsheets

YOU'RE INVITED!
Working Together
To Find Solutions.

Come See the Pour Advancing
Multimodal Alternatives.

PUBLIC MEETINGS TO BE HELD
October 7th & 8th, 2013 - \$:00 - 8:00 p.m.

Corridor Advisory Group/ Task Force Meetings



Community and Transit Agency Meetings

3 Public Meetings



www.EisenhowerExpressway.com



Transportation Needs, Alternatives Summary





Transportation needs to be addressed

- ✓ Mobility, safety, condition, design
- ✓ Connections between travel modes
- ✓ Access to jobs

OVERALL GOAL

Create an asset for adjoining communities





Transportation Needs, Alternatives Summary





Alternatives development evaluation

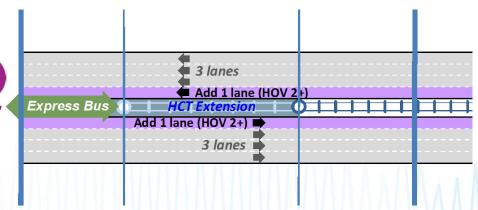
Three evaluation rounds, CTA Blue Line Vision Study

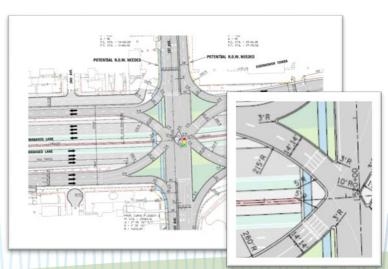
Engineering considerations

- Evaluation rounds 1 and 2 conceptual alternatives, travel model
- Evaluation round 3 geometry

Environmental Considerations

Communities are the environment







2+

CTA Vision Study Recommendations





Complete reconstruction/modernization for the Forest Park branch

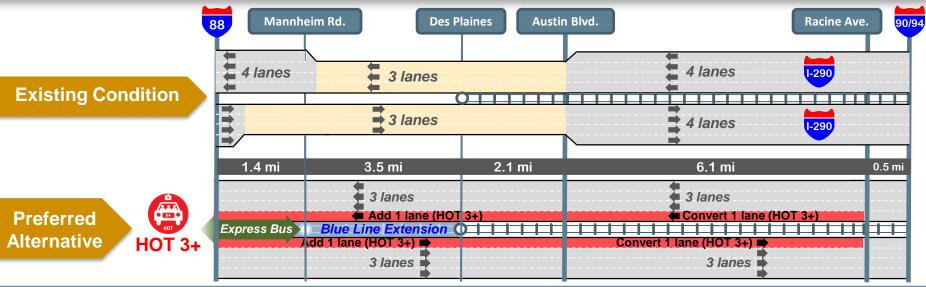
- ✓ Bring existing service speeds up to state of good repair
- Maintain existing station access
- ✓ Maintain existing service no 3rd track or express service
- Remove stations closed in the 1970's
- Redesign Forest Park terminal, yard and shop

Work with IDOT to refine design, develop staging concept, explore joint funding opportunities

Preserve footprint for future extension (supportive land use required)



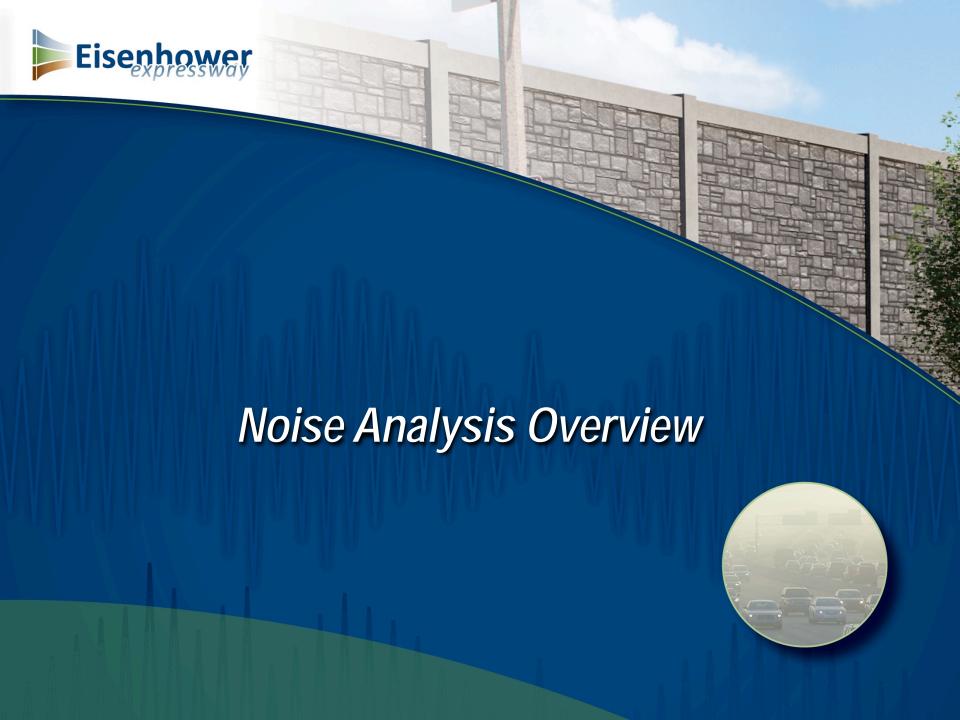
Preliminary Preferred Alternative – HOT 3+ & Supporting Transit



SUPPORTING TRANSIT

- > Bus feeder service
- > Blue Line extension to Mannheim
 - Initial service option bus in managed lane
 - I-290 corridor improvements will enable/leverage transit improvements





When Are Noise Walls Considered?

TYPE I PROJECT

- New Roadway
- New travel lanes
- Substantial alteration





TYPE II PROGRAM

Illinois has **NO** Type II (retrofit) Program therefore noise walls cannot be considered.



Noise Study Area







Traffic Noise Analysis Process



- 1 Identify Noise Receptors
- 2 Traffic Noise Level Determination
 - ✓ Modeling
 - ✓ Validated by field monitoring
- 3 Traffic Noise Impact Identification
- 4 Traffic Noise Abatement Analysis

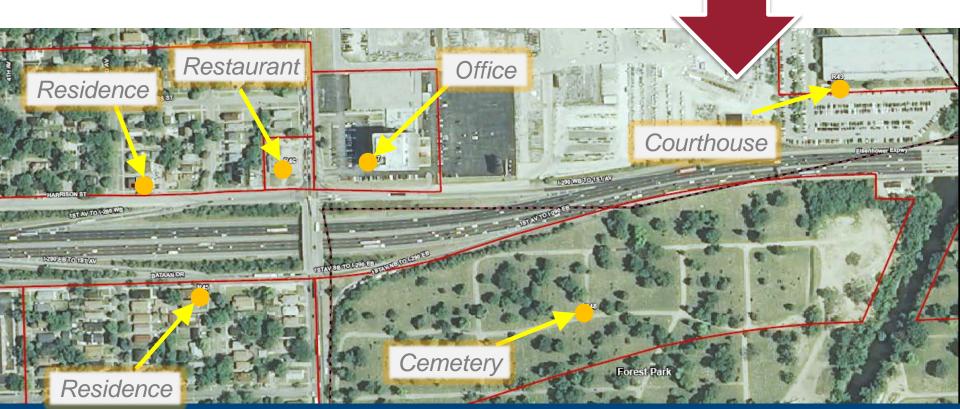
Identify Noise Receptors





A receptor is an *outdoor* area of *frequent* human use that is analyzed for noise impacts due to the project.

Nearly 300 worst-case noise receptors were identified along the Study Area representing thousands of individual receptors



Interior vs Exterior Noise





- IDOT and FHWA stipulate that outdoor areas of frequent human use be given primary consideration
- Interior noise for private residences not studied, as that analysis focuses on noise levels interfering with outdoor conversations



"Only consider the interior levels at these land uses after FULLY COMPLETING an analysis of any outdoor activity areas or determining that exterior abatement measures are not feasible or reasonable."

-- FHWA's Highway Traffic Noise: Analysis and Abatement Guidance



Traffic Noise Level Determination



Noise calculated at worst-case receptor locations

Predicted traffic noise levels using the FHWA Traffic Noise Model (TNM)

- Existing, Future No-Build, Future Build (HOT 3+ alternative)
- Existing noise levels validated with field monitoring



Traffic Noise Impact Identification





Impacts
Identified for
worst-case
receptors

2 methods for impact identification:

- ✓ Future Build noise levels approach, meet, or exceed the FHWA Noise Abatement Criteria (NAC)
- ✓ Substantial increase in noise



FHWA Noise Abatement Criteria (NAC)





CATEGORY A

Serene lands - rarely applies. (Tomb of the Unknown Solider)

CATEGORY B:

Residential

CATEGORY C:

Hospitals, schools, places of worship, parks

CATEGORY D*:

Hospitals, libraries, places of worship, institutions, schools

CATEGORY E:

Hotels, offices, restaurants

Interior noise, to be studied only after exterior is studied, or if noise abatement is not feasible and reasonable

No Established NAC

CATEGORY F

Agricultural, industrial, retail, utilities

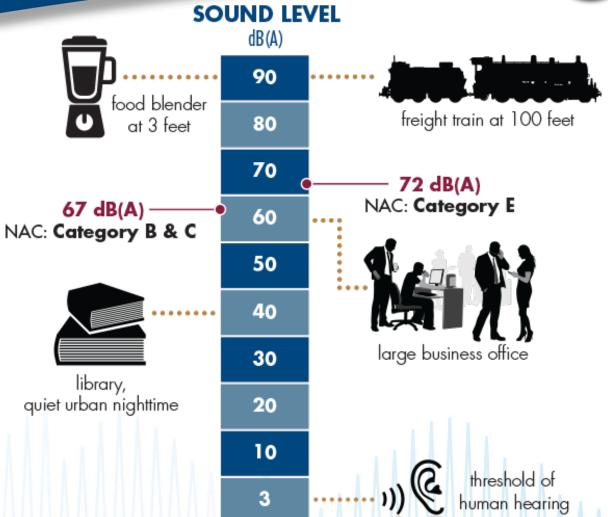
CATEGORY G:

Undeveloped lands



Common Noise Levels







Where Are Noise Impacts?



Future No Build

227 receptors

228 receptors



No Build vs. Build Noise Levels



NOISE LEVEL PERCEPTION	Decibel Change	# of Worst-Case Receptors
Readily Perceptible	>= +5	0
Barely Perceptible	>= +3	1
Less than Barely Perceptible	2 to -2	283
Barely Perceptible	<= -3	3
Readily Perceptible	<= -5	1
	TOTAL	288



Traffic Noise Abatement Analysis





Abatement analysis completed in area with impacted Receptors

✓ Noise walls only option for I-290 corridor

To be implemented, noise barriers MUST be:

✓ "Feasible" AND "Reasonable"



Where Were Walls Studied?

✓ Walls located between cross streets, where NOISE IMPACTS are identified.





Would Wall Reduce Noise by 5 db(A)?

- ✓ Is wall constructible?
- ✓ Does wall provide a benefit, a readily perceptible noise reduction
- ✓ This wall reduces noise by 5 dB(A) at properties in yellow.





Would Wall Reduce Noise by 8 db(A)?

✓ This wall *REDUCES* noise by 8dB(A) at the properties *YELLOW*





Would Wall Be Cost Effective?

- ✓ This wall *benefits* 40 receptors
 - Allowable cost per benefitted receptor = \$29,750
- ✓ Allowable wall cost is \$1,190,000
- ✓ Actual wall would cost \$492,000

ACTUAL
wall cost
wall cost

Wall is COST EFFECTIVE





Is Wall Supported By Those It Benefits?

- ✓ Benefitted receptors vote FOR or AGAINST proposed noise wall
- ✓ Viewpoint solicitation"
- ✓ Simple majority vote





Viewpoints Solicitation



- ✓ Rental properties: One vote for tenant, one vote for owner (per unit)
- ✓ Receptors that share property line with I-290 receive *TWO VOTES*
- ✓ Up to *TWO ROUNDS* of voting to *MAXIMIZE* response rates

RESPONSE GOAL OF 33% of benefited receptors per proposed barrier

If more than half of the votes are in favor of a barrier, the proposed abatement measure will be likely to be implemented





Viewpoints Example Letter and Form









Illinois Department of Transportation

Division of Highways/Region One / District One 201 West Center Court/Schaumburg, Illinois 60196-1096

Project and Environmental Studies

1-33 at weeder Hoad Weber Road from 135th Street/Romeo Road to 119th Street/Rodeo Drive Will County

Viewpoint Solicitation - First Notice Noise Barrier Implementation

«fullname» "Address1= -Address2= =zip=

Dear Property Owner or Resident:

The Illinois Department of Transportation (Department) in cooperation with Will County Department of Highways (County) are currently engaged in preliminary engineering and environmental studies (Phase I) to the Weber Road from 155° Street/Romeo Road to 119° Street/Rodeo Drive including the Weber Road interchange at 1.55. The proposed improvements include reconstruction of the existing diamond interchange of 1-55 at Weber Road to a diverging diamond interchange and widening of Weber Road from four lanes to six lanes. The I-55 at Weber Road improvements are included in the Department's FY 2014-2019 Proposed Multi-Modal Transportation Improvement Program contingent upon the sale of approximately 200 acres of unused properly currently owned by the Illinois Department of Corrections as property currently owned by the increase population of Confederations as stipulated in Public Act 95-0019, and contingent upon local financial верывачес во тчане мед вочил не, виза контентарить прил осни пнавления, participation for improvements to adjacent highway facilities under local

As part of the Phase I Study, traffic noise was evaluated for the proposed roadway improvements. The traffic noise analysis indicated that noise levels in your area warrant the consideration of noise abatement. Based on the noise abatement analysis, a noise wall approximately 10 feet high is warranted along the west side of Weber Road from approximately 300 feet north of Rodeo Drive to just north of Countryside Drive. See the enclosed figure for the location of the proposed noise wall. The proposed wall in your area is labeled as

The Department is requesting your viewpoint regarding your desire for the noise wall proposed near your location. This letter has been provided to all property owners and tenants who would "benefit" from a

Viewpoint Form

Neber Road from 135th Street/Romeo Road to 119th Street/Rodeo Drive Will County

Wall - B1B Please provide your response by December 9, 2013.

am in favor of a noise barrier:

Yes

No

Signature: OR Tenant:

Comments:



Proposed Noise Walls – I-290 Corridor





92 noise walls studied to abate the 228 impacted areas

76 of the 92 walls were *FEASIBLE*

61 of the 76 walls were *REASONABLE*

✓ 9' – 19' tall walls recommended at 61 locations

Exhibits depicting potential locations available

FINAL RECOMMENDED WALLS

Determined after the viewpoint solicitation



What Will the Noise Walls Look Like?





IDOT CURRENT TYPICAL WALL





Next Steps - Overall





- ✓ Noise analysis and coordination
- ✓ Technical Analysis
- Community and agency meetings continued
- ✓ Noise Wall Viewpoints Solicitation Surveys – Early November
- ✓ Corridor Advisory Group #22 February 2016
- ✓ Draft Environmental Impact Statement Release February 2016
- ✓ Public Hearing March 2016
- ✓ Corridor Advisory Group #23 Summer 2016
- ✓ Final Environmental Impact Statement/Record of Decision Fall 2016





Express Your Opinion





Cotober 2015 Noise Wall Forum Comment Forum The litnois Department of Transportation ((DOT) is conducting the Esperiment Expressing ()—(200) Preliminary Engineering and Carl forum mental Study (Present). The study is sub-in in-decide book at the current and study Engineering and Empressing (Present). The study is sub-in-decide book at the current and study Engineering and Empressing (Present). The study is sub-in-decided book at the current and study Engineering and Empressing (Present). The study is sub-in-decided book at the current and study Engineering and Empressing (Present). The study is sub-in-decided book at the current and study is sub-in-decided book and study in the study is sub-in-decided book and an and several to decide and study in the study is sub-in-decided book and a study in the study is sub-in-decided book and sub-in-decided book and in the study is sub-in-decided book and a sub-in-decided book and in the study is sub-in-decided book and a sub-in-decided book and

Comment Form

Submit your comments here, via U.S. mail, fax or online.

Project, website

Visit **EisenhowerExpressway.com**

for up to date project information

A comment form will not be counted as an *official vote* for the noise walls. Official voter surveys will be mailed to your home.







Questions? Study team members will respond to anonymous questions presented by a moderator. If you have a question, please write it on this card and drop it in the question box. Also, please feel free to speak to one of the Study Team representatives.

Thank you for your participation!



Q&A Session

Please submit your comment card to a study team member.





THANK YOU

1-290 NOISE WALL FORUM

Visit the exhibit area to view aerial maps and speak with study team members.

