



A Subsidiary of GZA



Proactive by Design.  
Our Company Commitment.



# THE IKE:

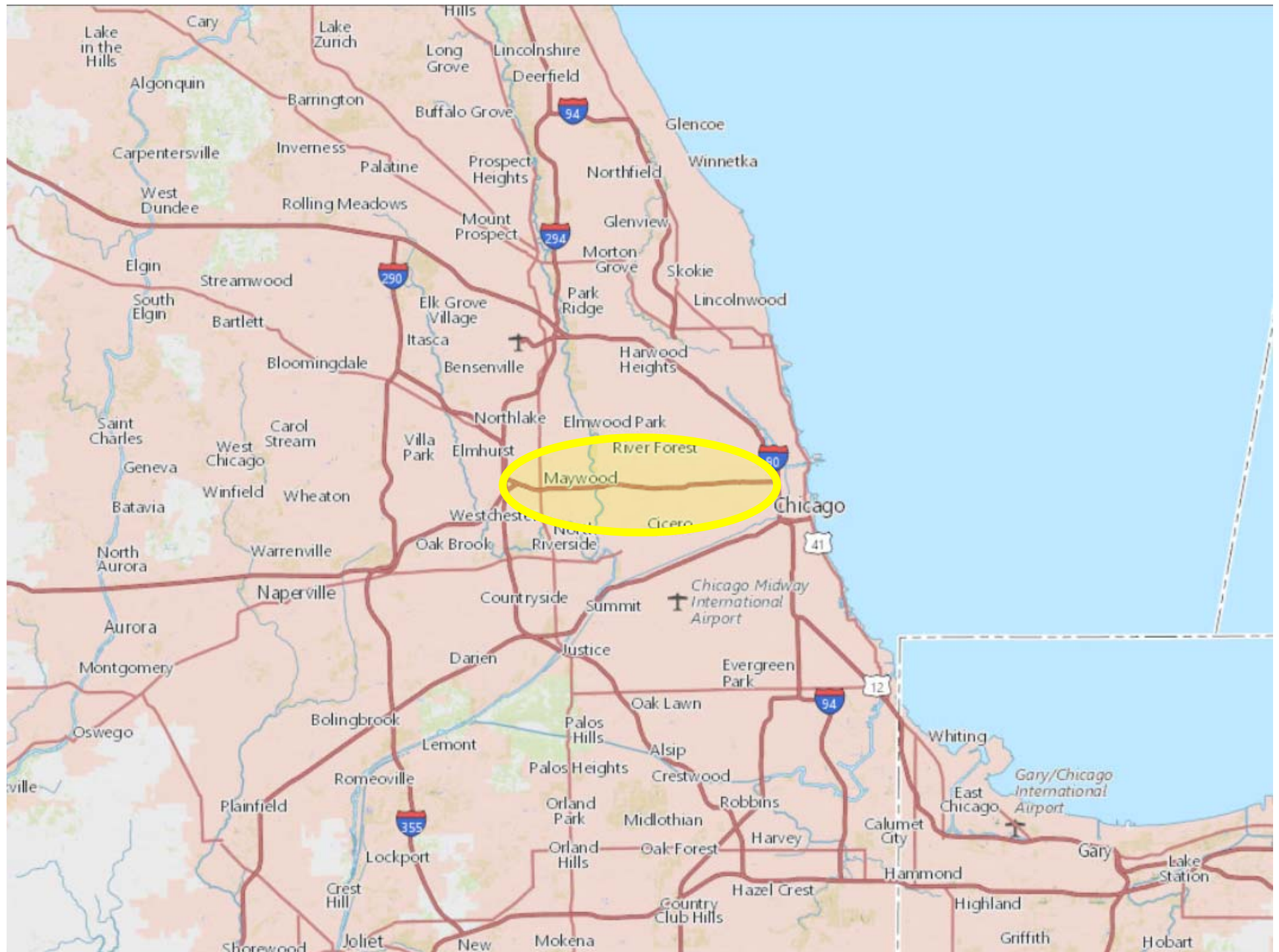
## Rewriting Illinois DOT's Traffic Noise Policy

JAMIE BENTS, AICP CTP

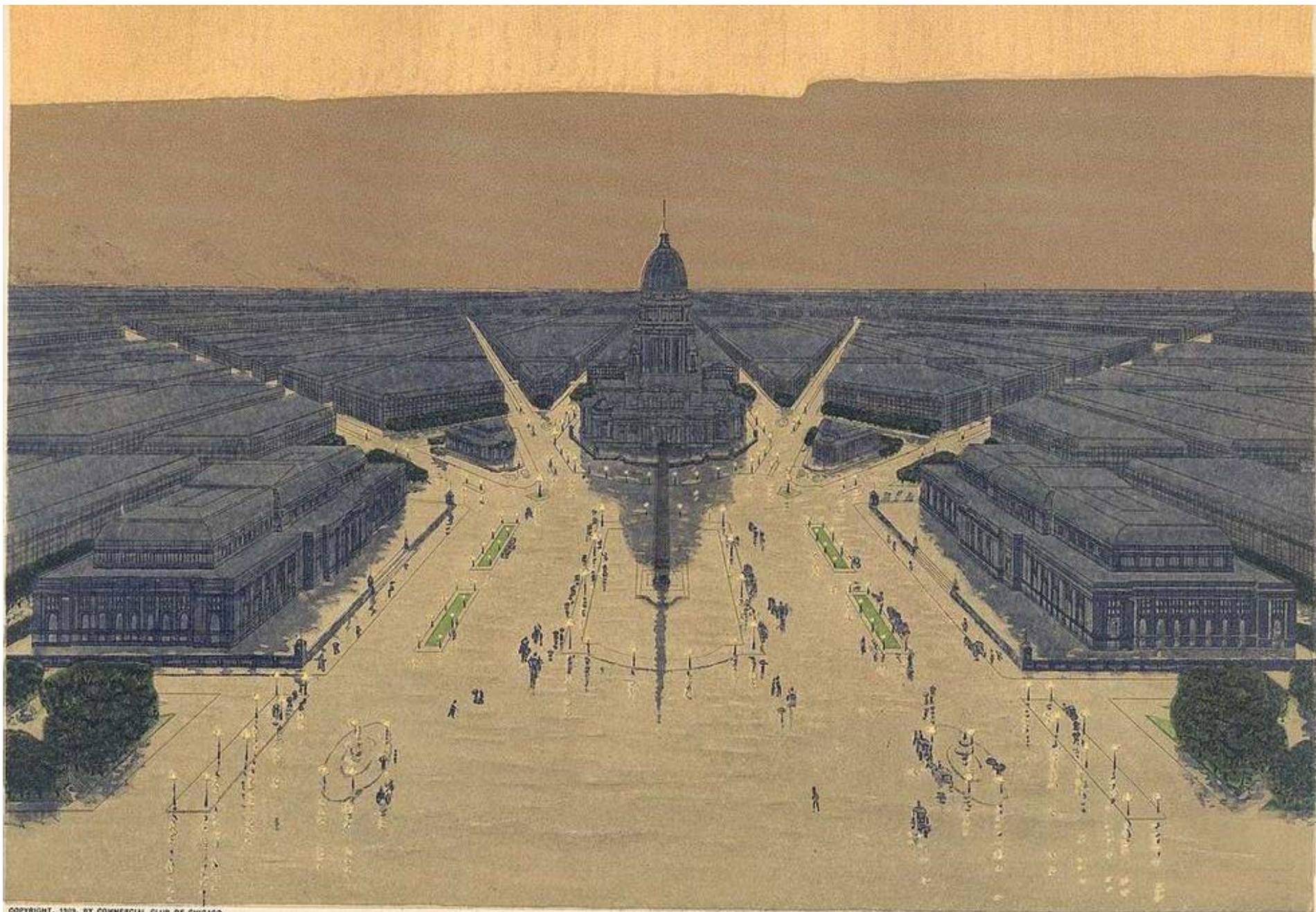
TIM KELLY, P.E.

DR. KEN RUNKLE









COPYRIGHT, 1909, BY COMMERCIAL CLUB OF CHICAGO

CXXXII. CHICAGO. VIEW, LOOKING WEST, OF THE PROPOSED CIVIC CENTER PLAZA AND BUILDINGS, SHOWING IT AS THE CENTER OF THE SYSTEM OF ARTERIES OF CIRCULATION AND OF THE SURROUNDING COUNTRY.

Painted for the Commercial Club by Jules Guerin.























CERA Archives

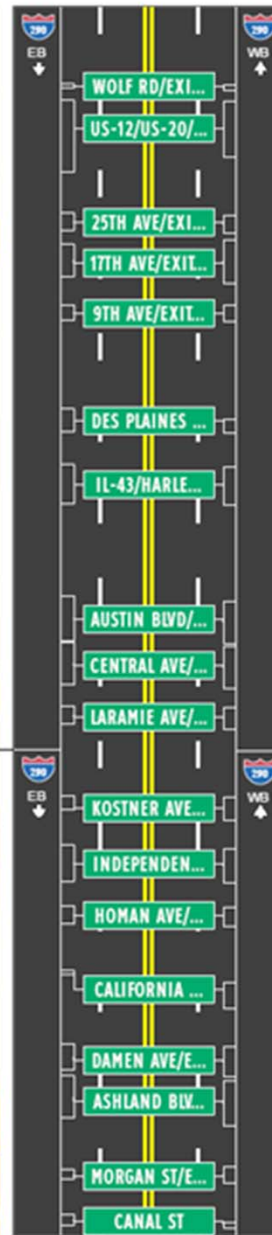
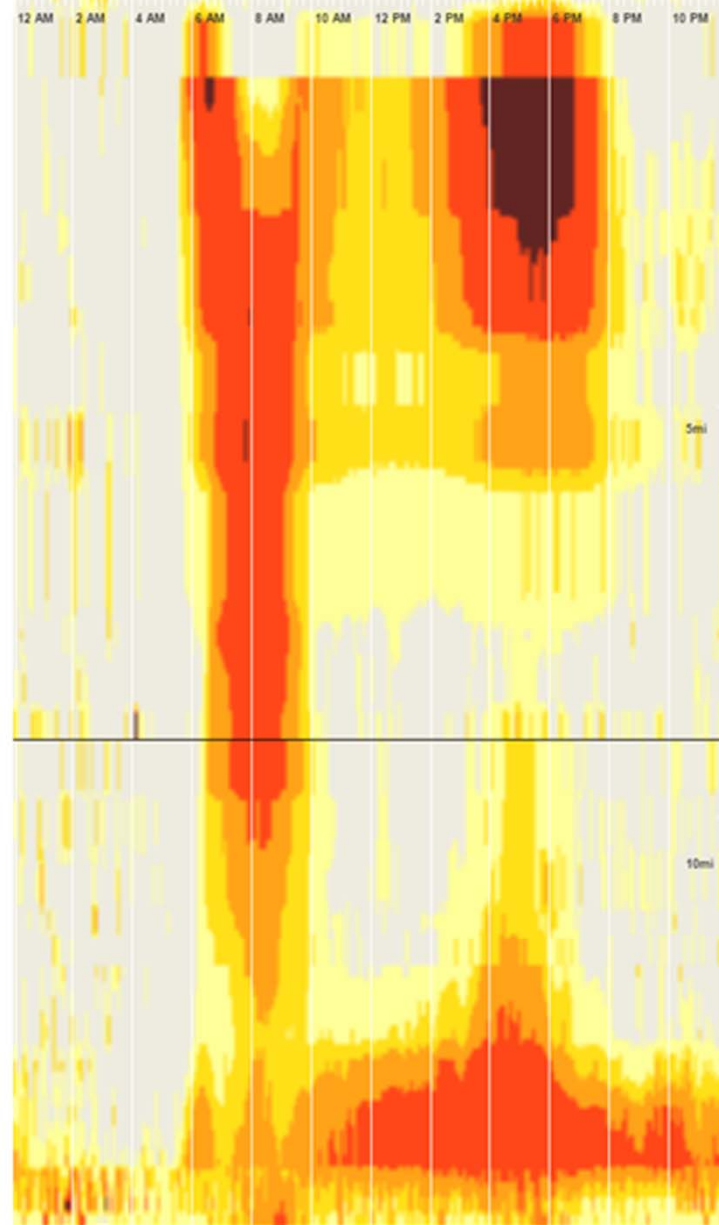




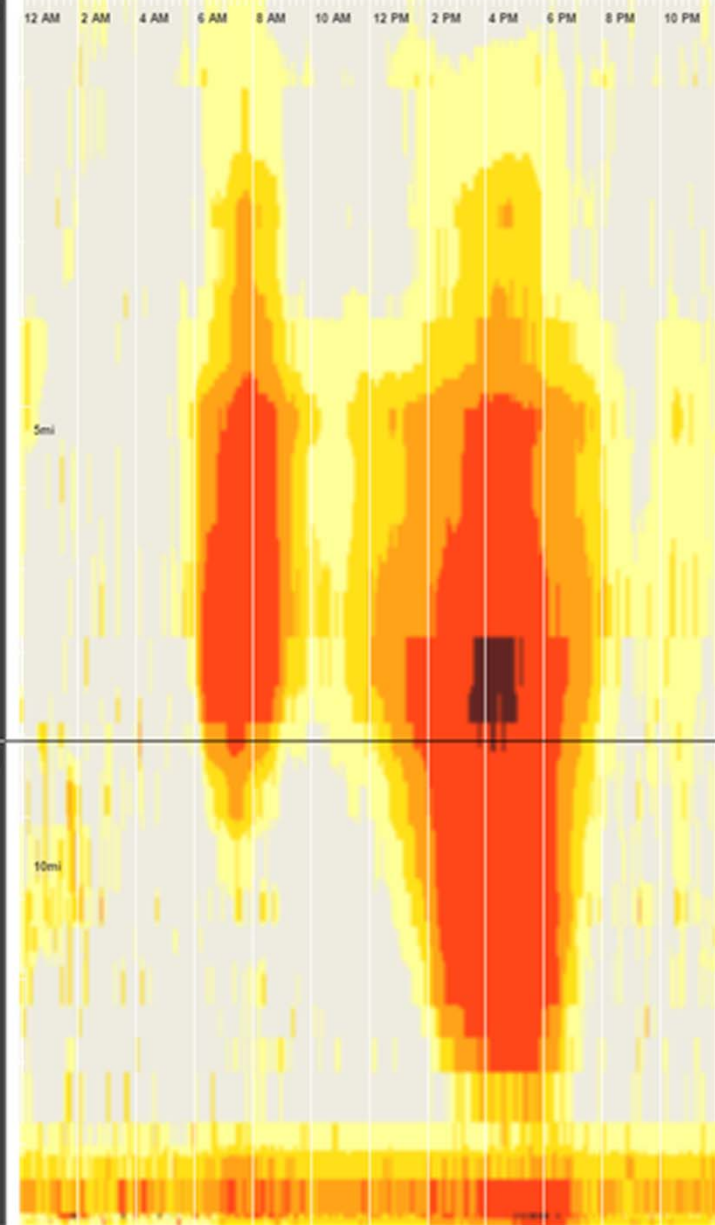
Speed on I-290 between I-88/I-294/Exit 15A and IL-50/Cicero Ave/Exit 24B and I-290 between IL-50/Cicero Ave/Exit 24B and Congress Pky using NPMRDS (Trucks and passenger vehicles) data

Averaged by 5 minutes for December 2015 through November 2016 (every weekday)

December 2015 through November 2016 (every weekday)



December 2015 through November 2016 (every weekday)



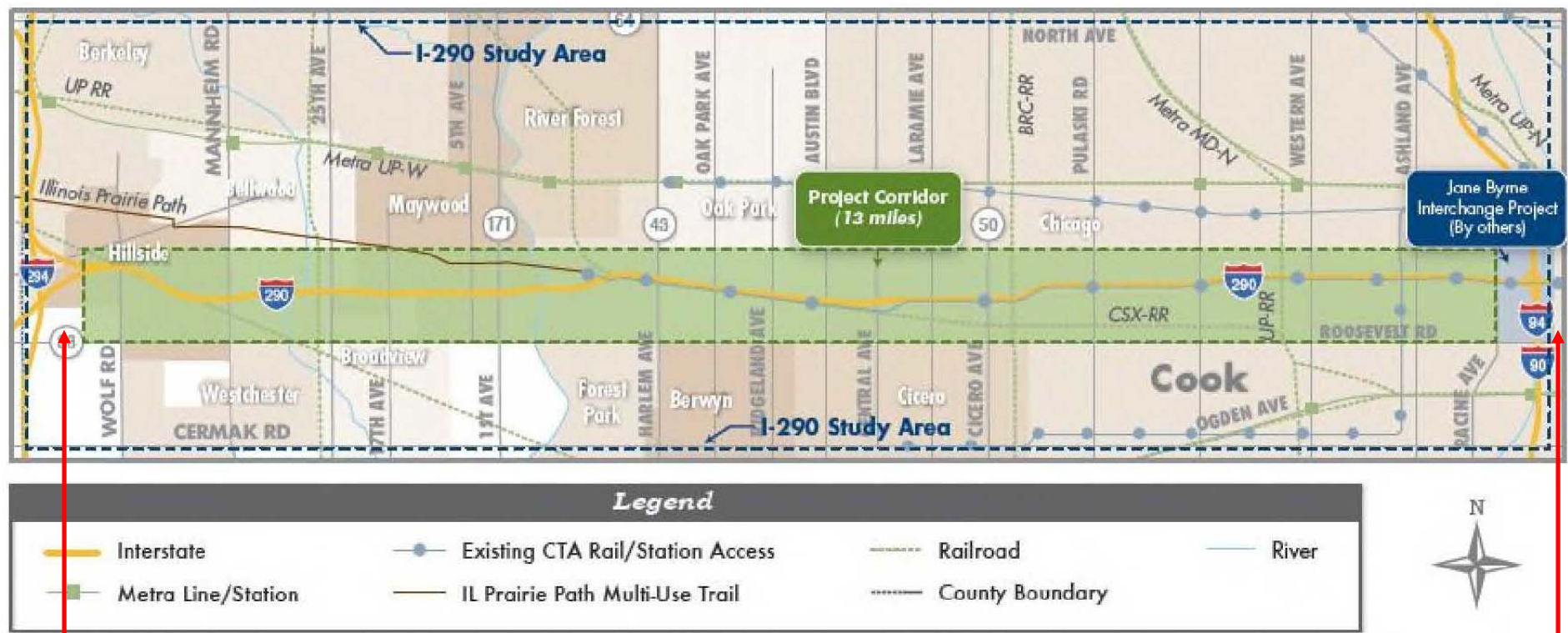
The raw measured speed.  
10 20 30 40 50







# Eisenhower Expressway Improvements – Cook County, Illinois



*Hillside Strangler Interchange*

*Jane Byrne Interchange*

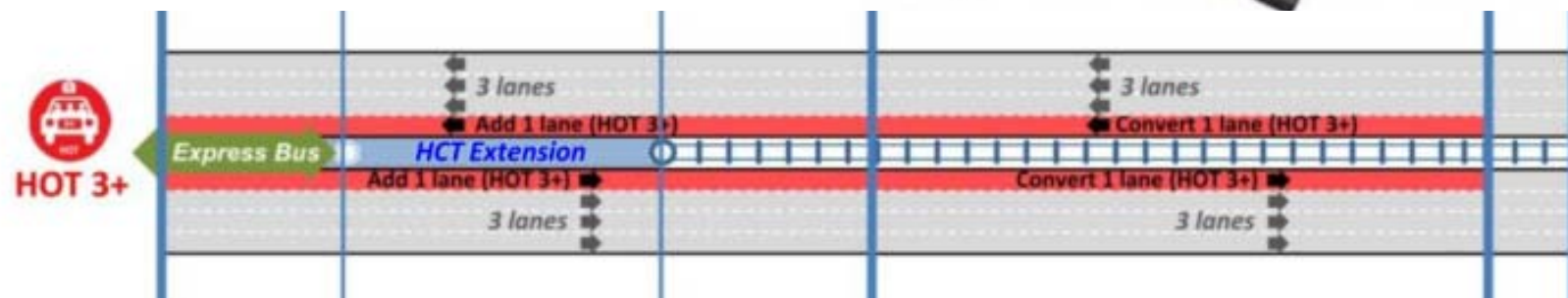
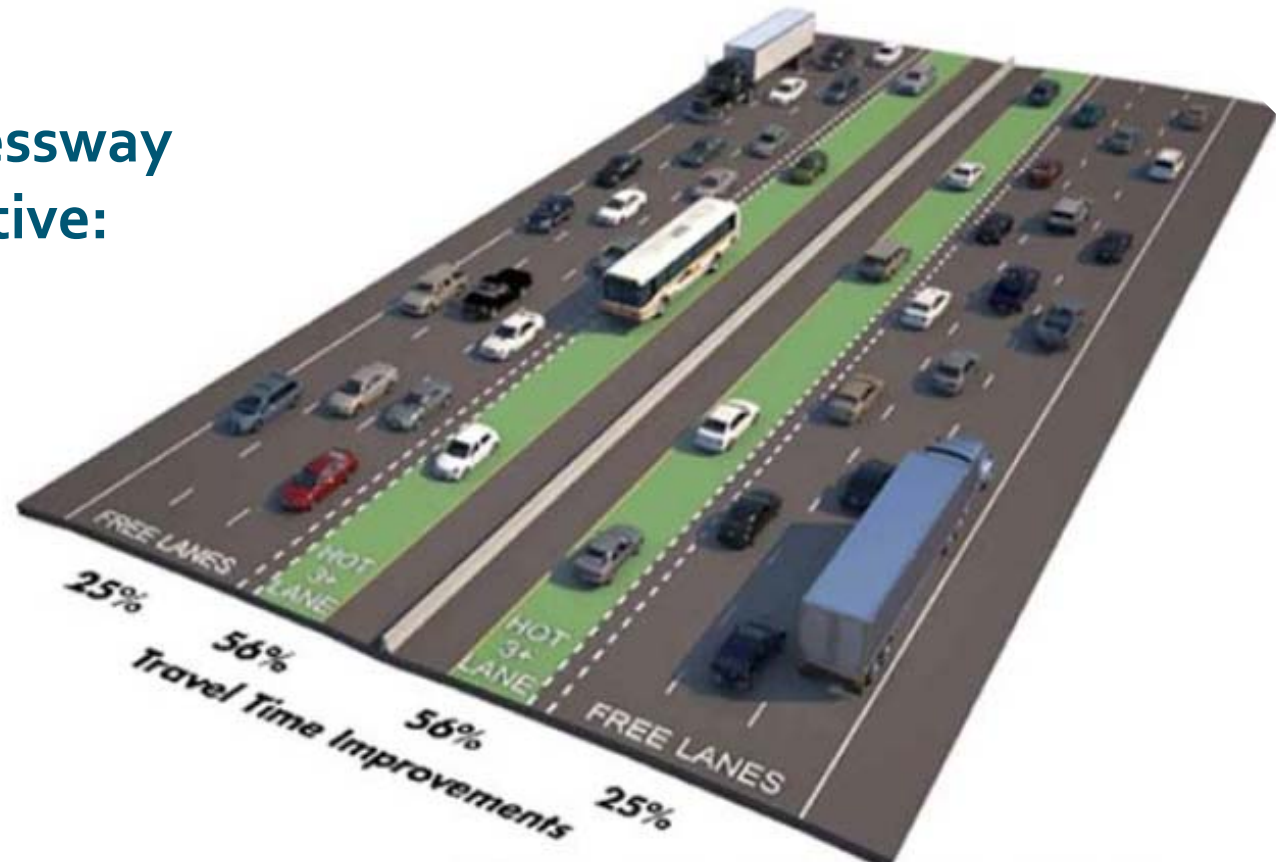


## Jane Byrne Interchange Reconstruction – Chicago, Illinois



*New north to west flyover ramp*

## Eisenhower Expressway Preferred Alternative: HOT<sub>3+</sub>





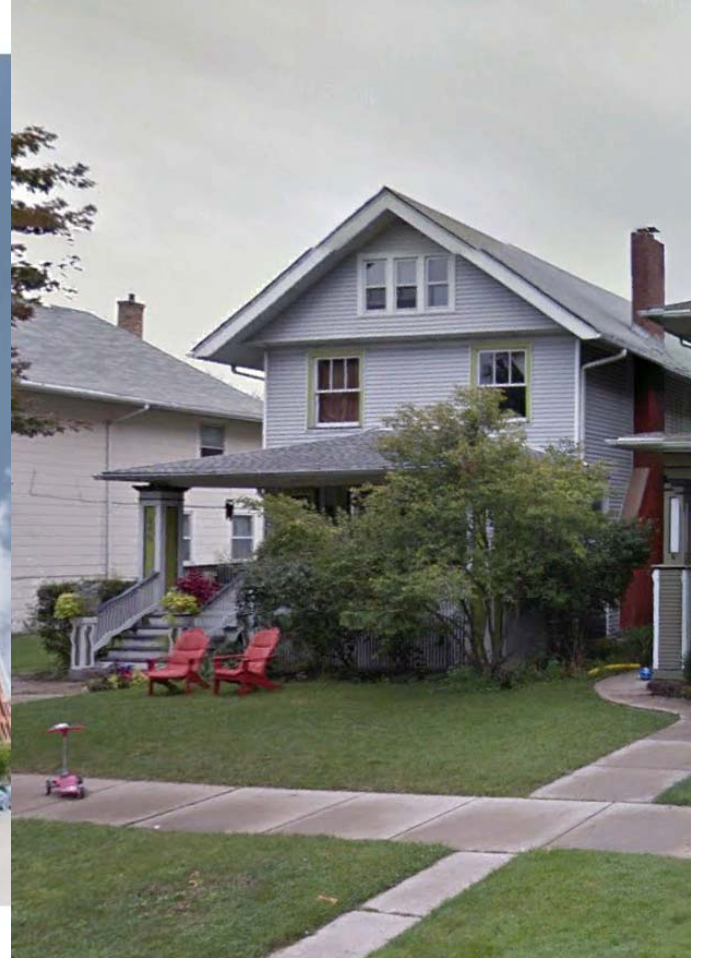


## Eight Cities

- Chicago
- Oak Park
- Forest Park
- Westchester
- Maywood
- Bellwood
- Hillside
- Broadview



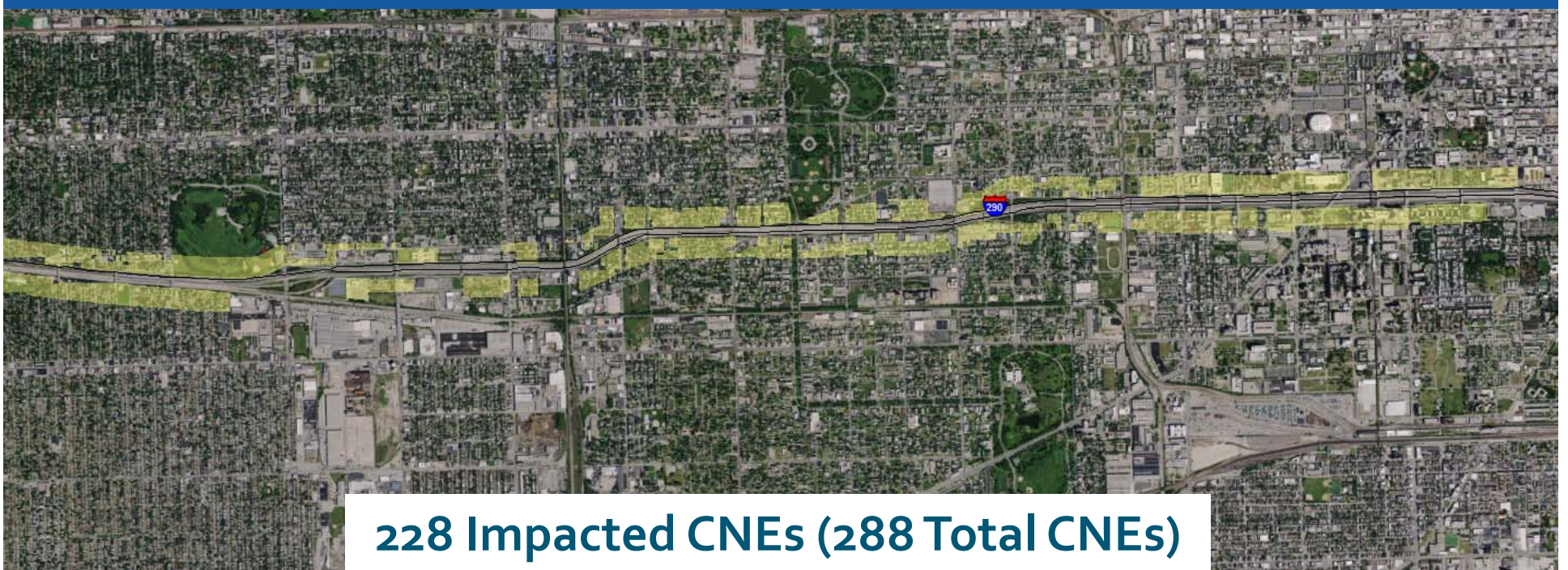
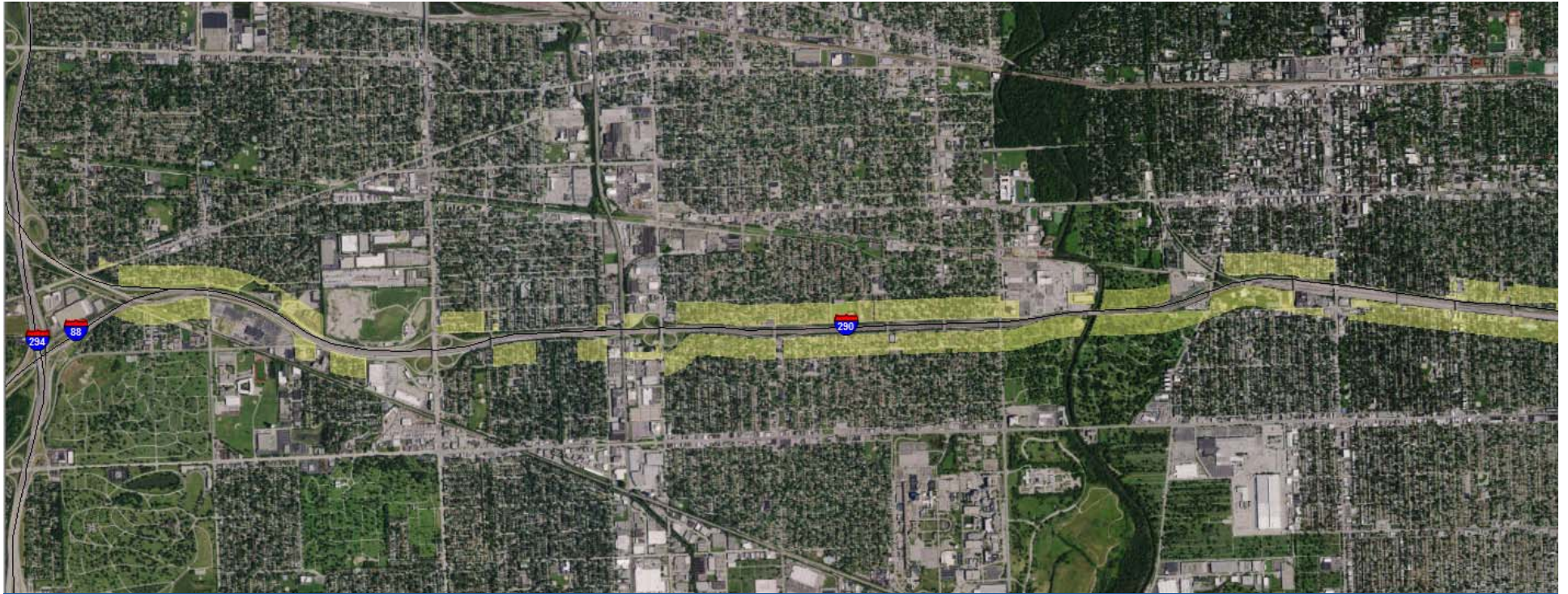






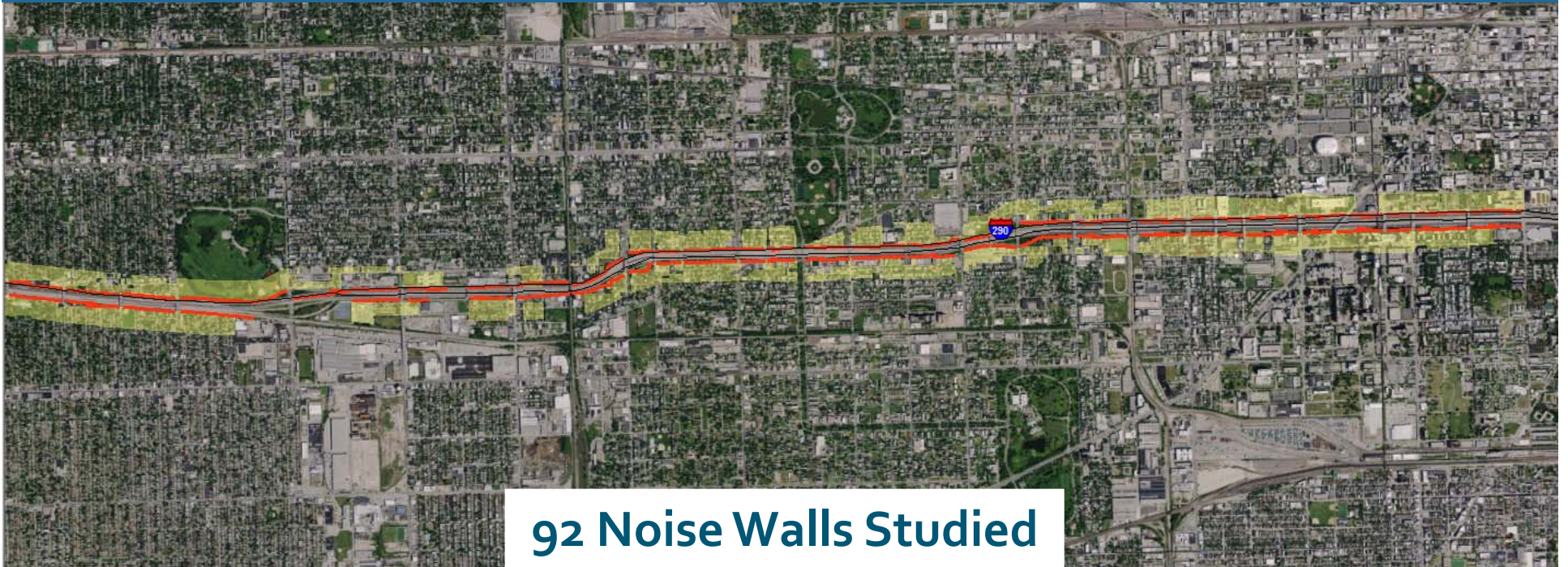
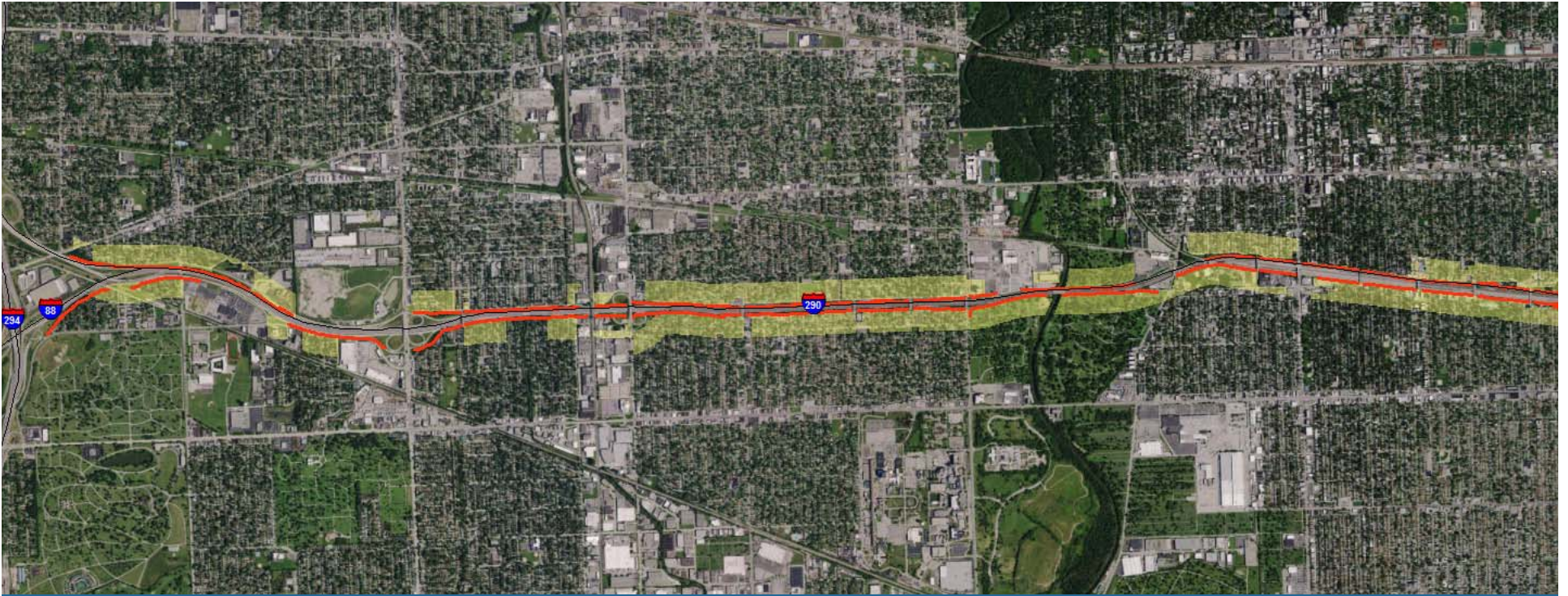
Noise Level Perception	dB(A)	GP Add Lane	HOV 2+	HOT 3+	HOT 3+ Toll
Readily Perceptible	$\geq +5$	0	0	0	0
Barely Perceptible	$\geq +3$	1	1	1	1
Less than Barely Perceptible	2 to -2	284	283	284	284
Barely Perceptible	$\leq -3$	2	3	2	2
Readily Perceptible	$\leq -5$	1	1	1	1
Total		288	288	288	288





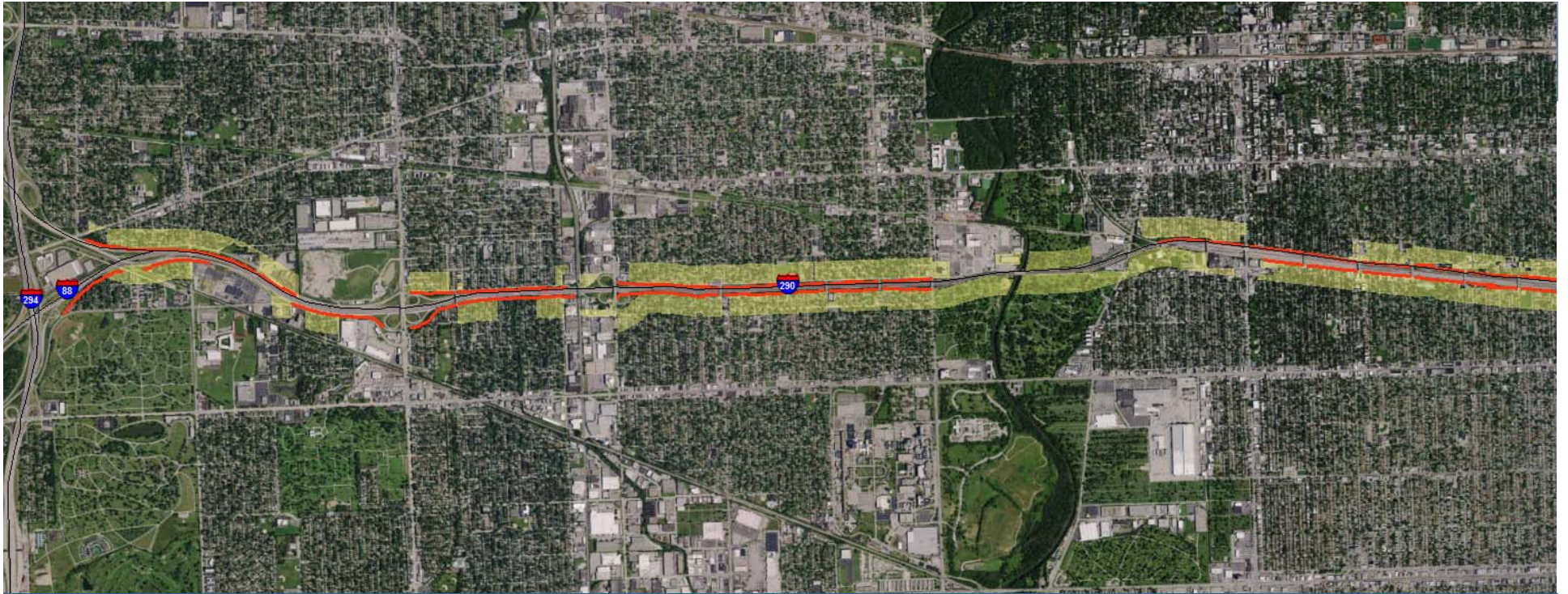
**228 Impacted CNEs (288 Total CNEs)**





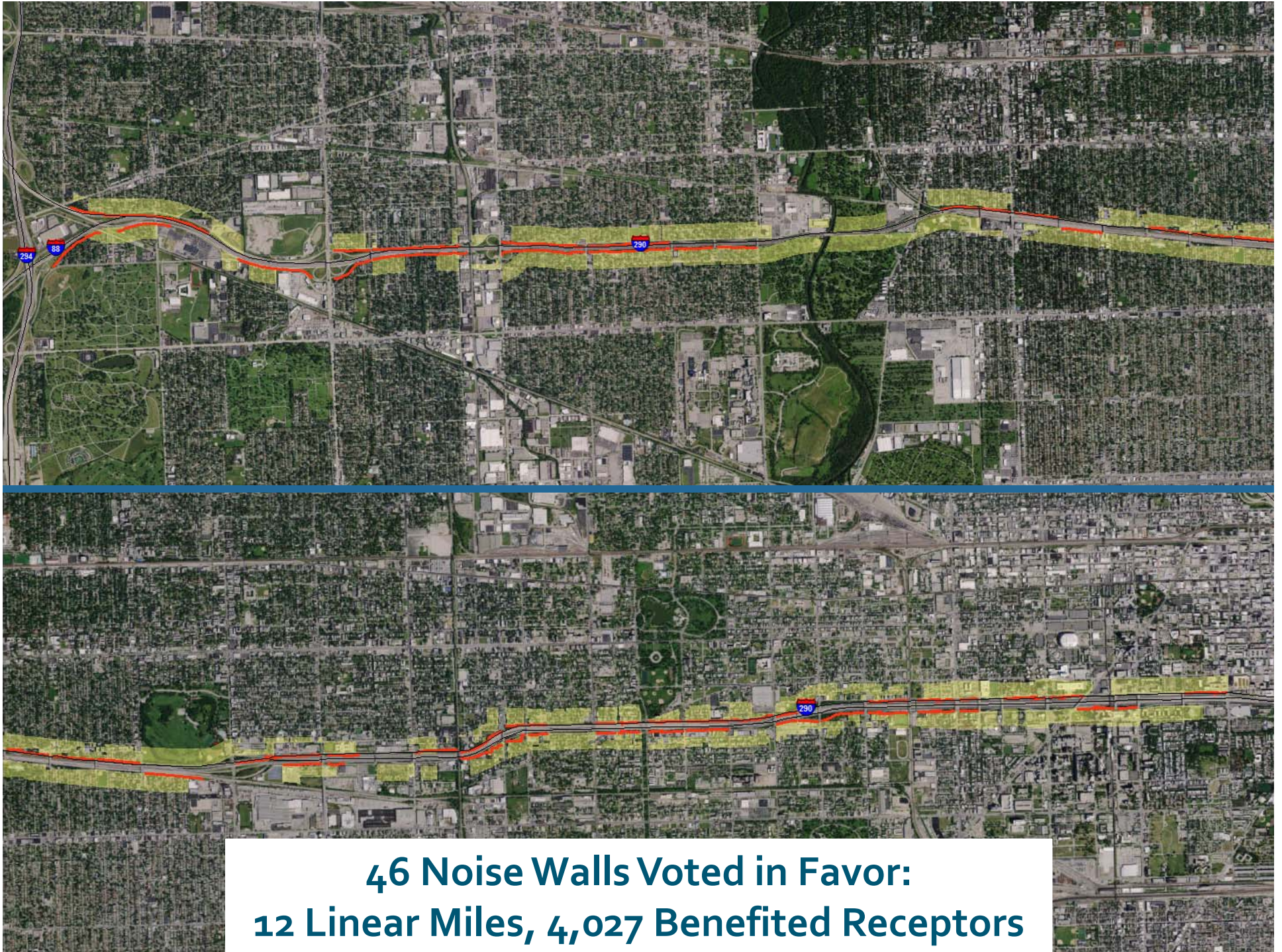
**92 Noise Walls Studied**





**63 Noise Walls Feasible and Reasonable:  
16 Linear Miles, 5,190 Benefited Receptors**







## PUBLIC INVOLVEMENT

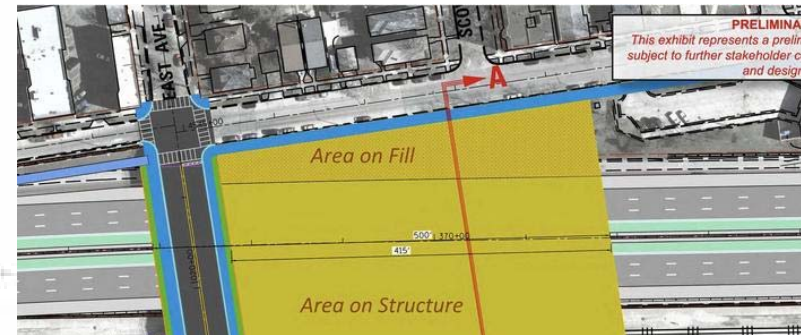
- 22 corridor advisory meetings
- 3 public meetings
- 7 noise forum meetings
- Agency working groups
- Community working groups
- ...and more



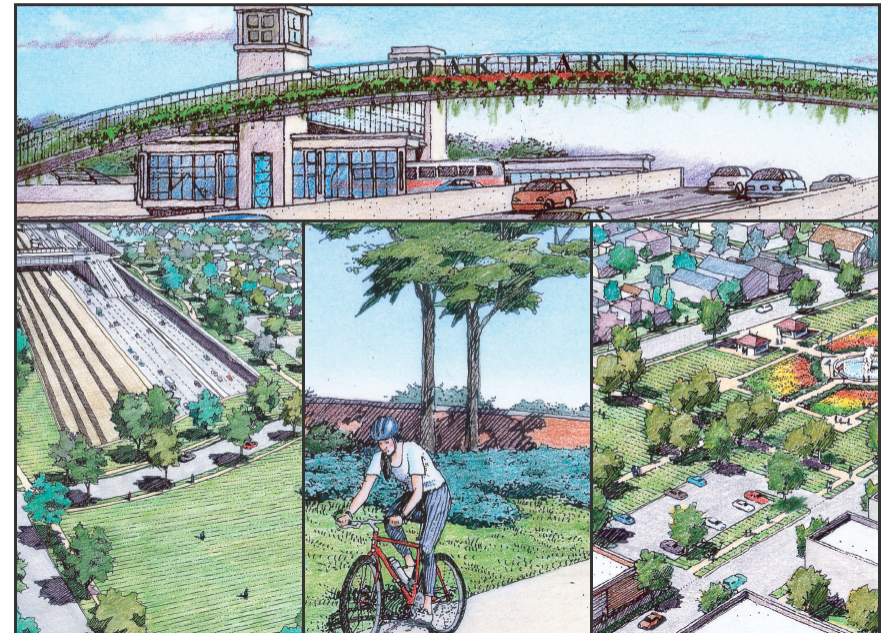




**Citizen Committee Report on Capping the Eisenhower Expressway in Oak Park**



*Cap the IKE Feasibility Study*  
**Final Report**  
 March 8, 2005





LIVE



## Eisenhower Expressway

ABC 7 EYEWITNESS NEWS

4:03 78°

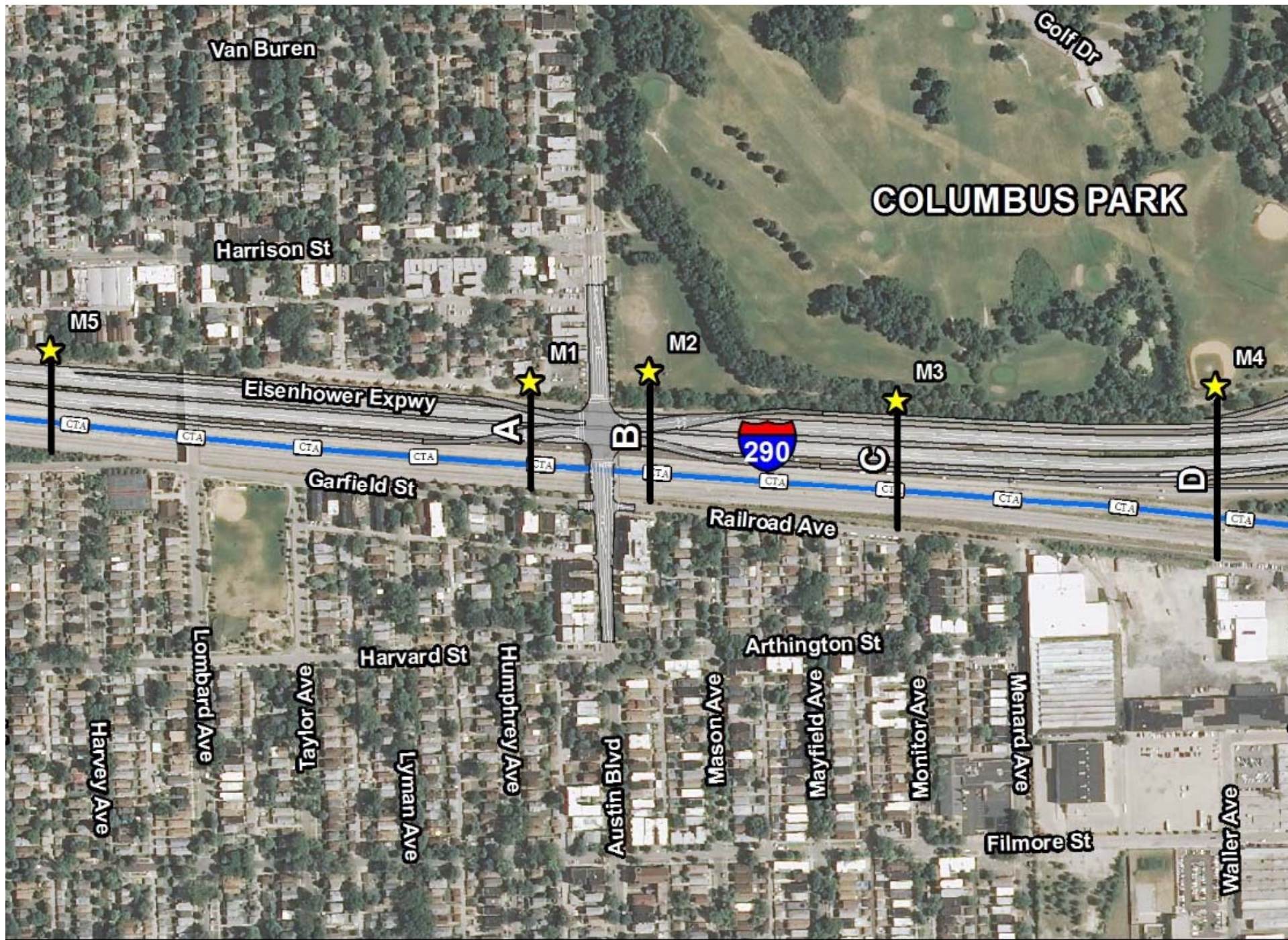


abc7chicago.com











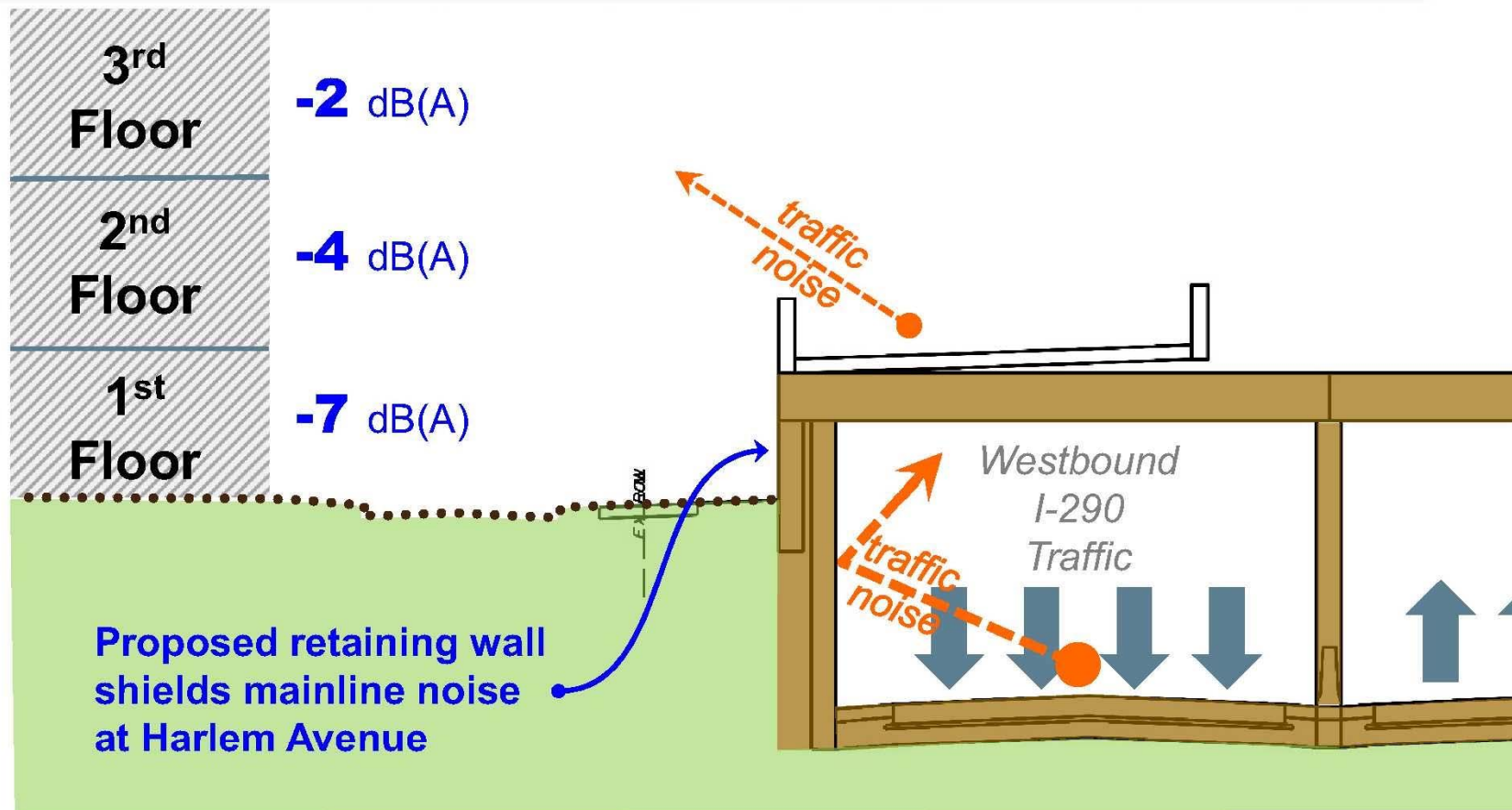




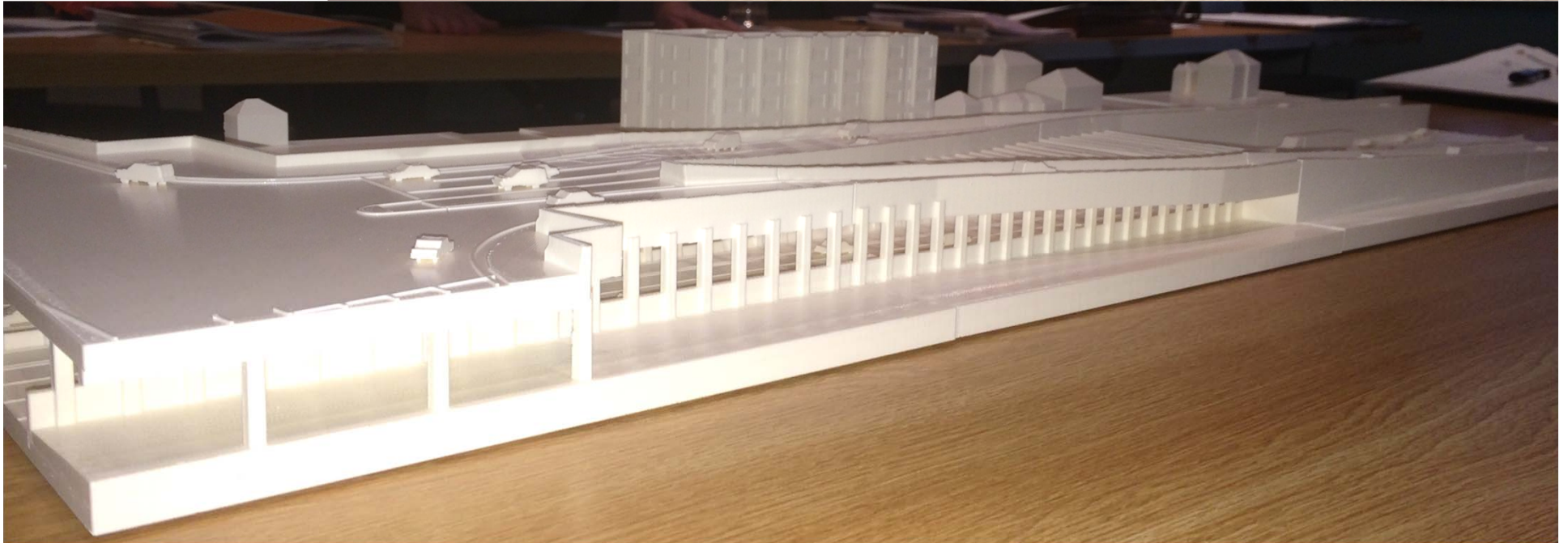
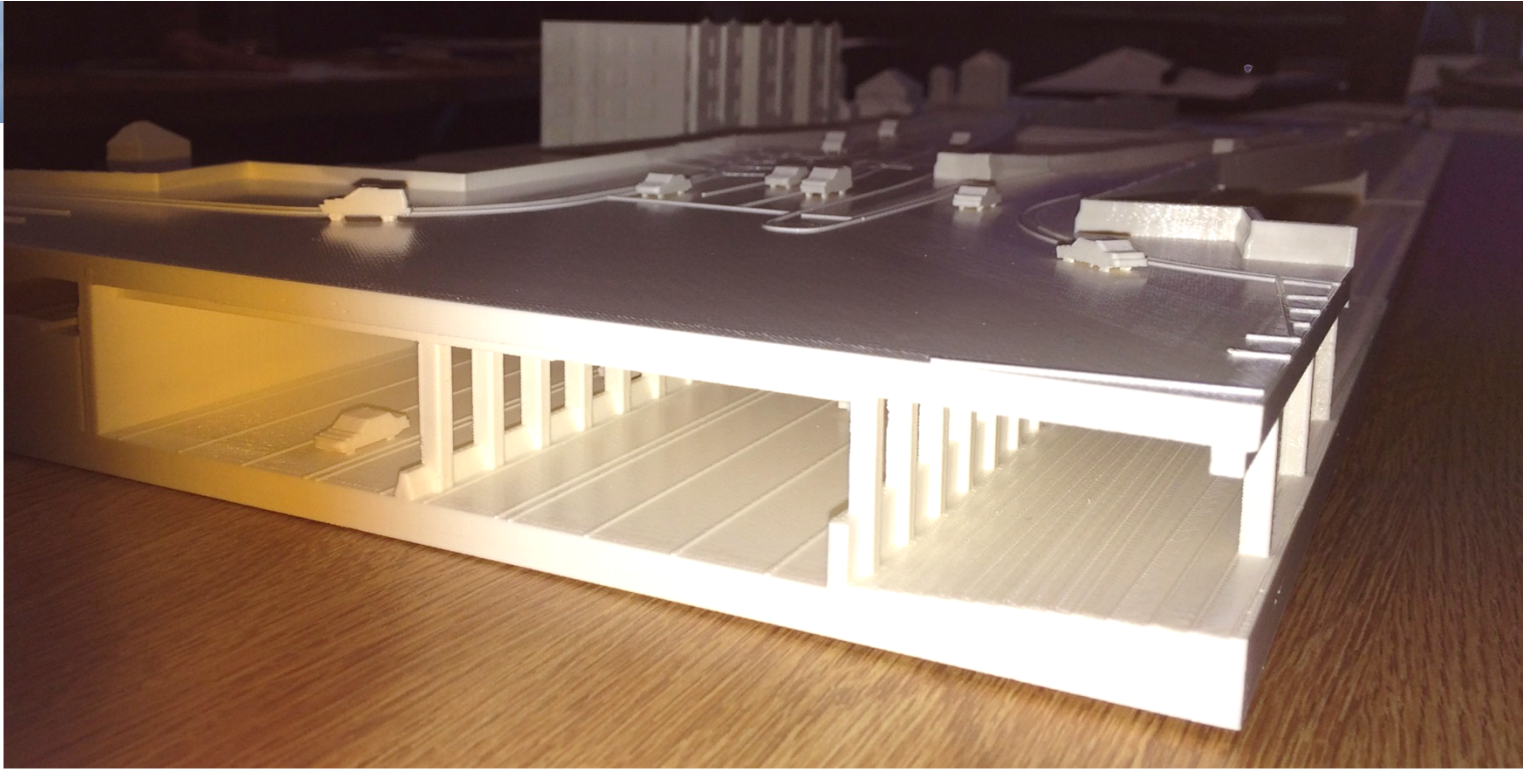




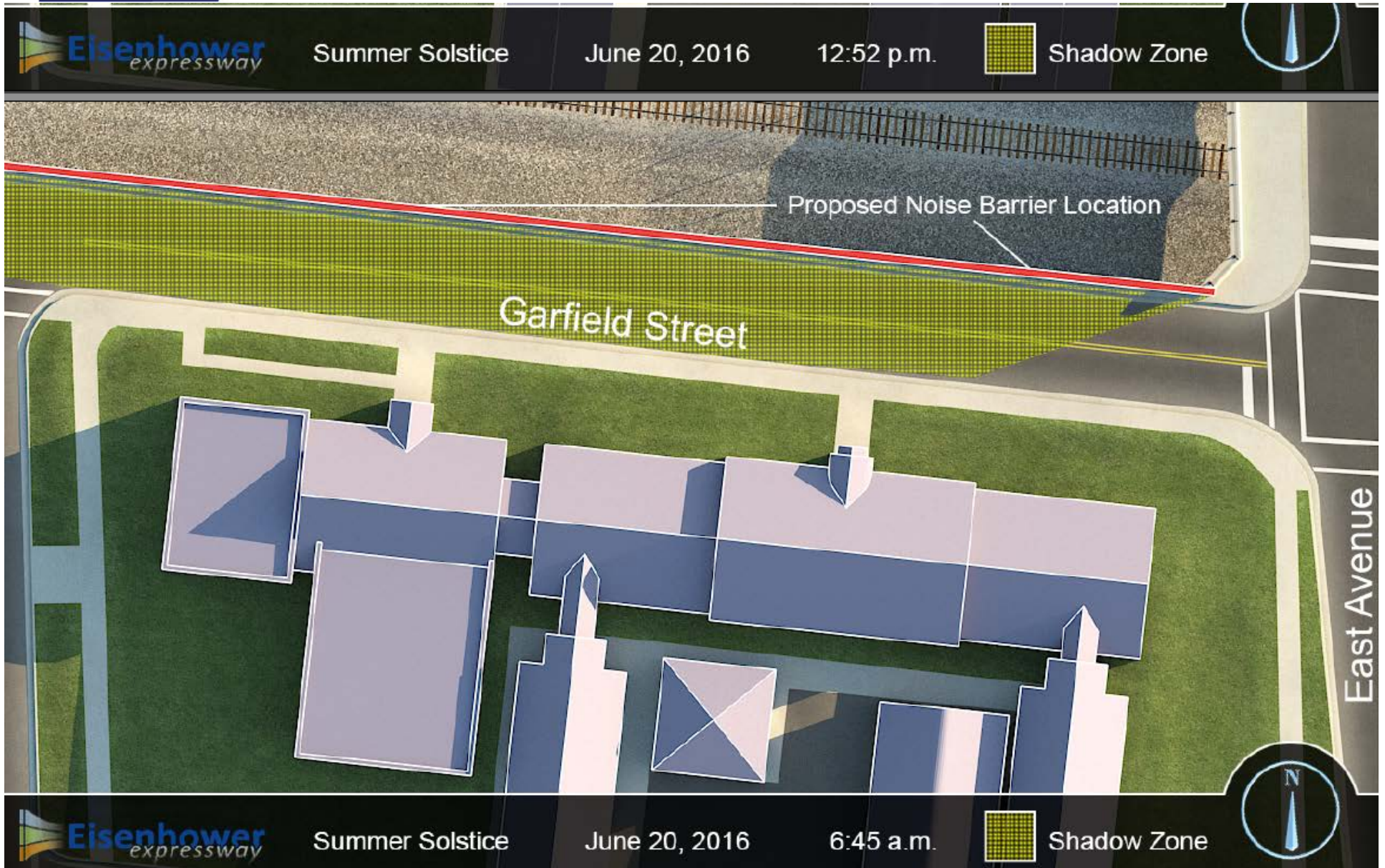
# Proposed Ramps at Harlem Avenue



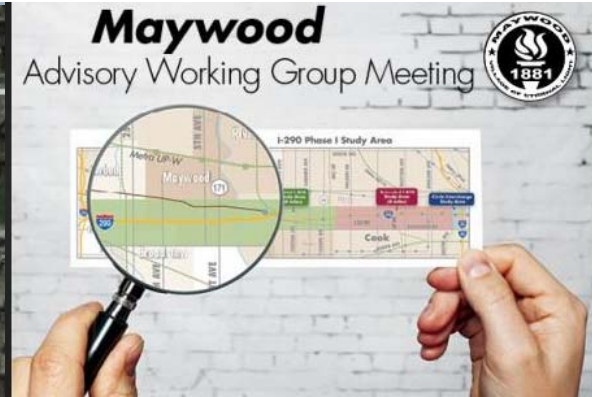








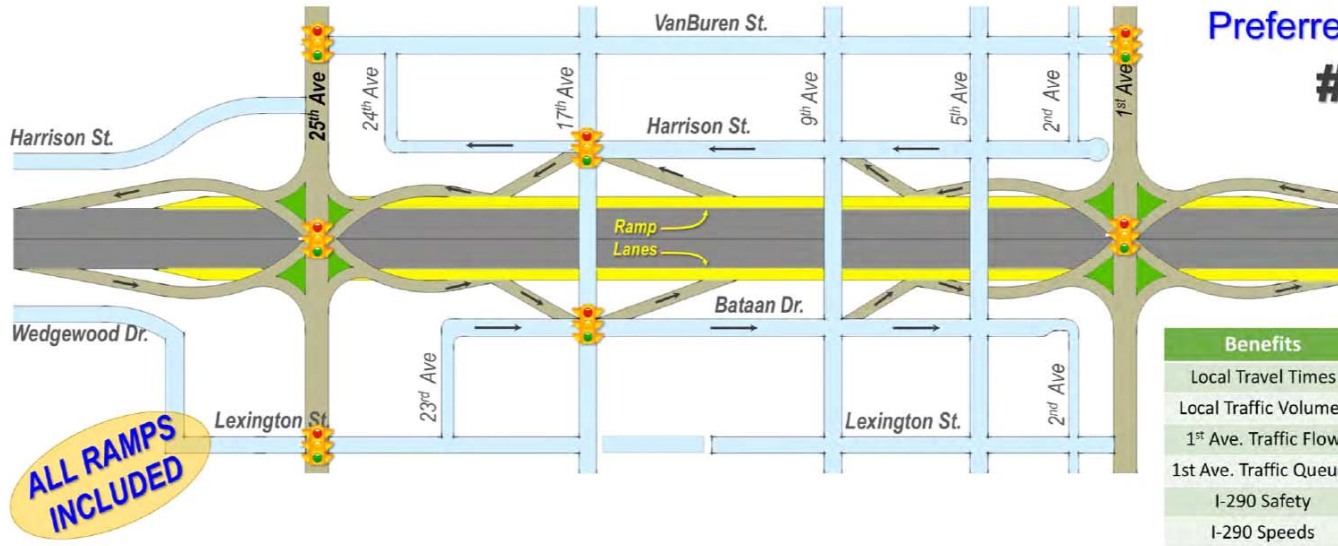




## Preferred Alternative #6

- ☐ Without frontage road connections at 1st Avenue
- ☐ Updated interchanges at 25th Avenue & 1st Avenue

Benefits	Comparison to Existing
Local Travel Times	24% reduction
Local Traffic Volumes	5% reduction
1st Ave. Traffic Flow	74% improvement
1st Ave. Traffic Queues	77% improvement
I-290 Safety	9% improvement
I-290 Speeds	133% improvement

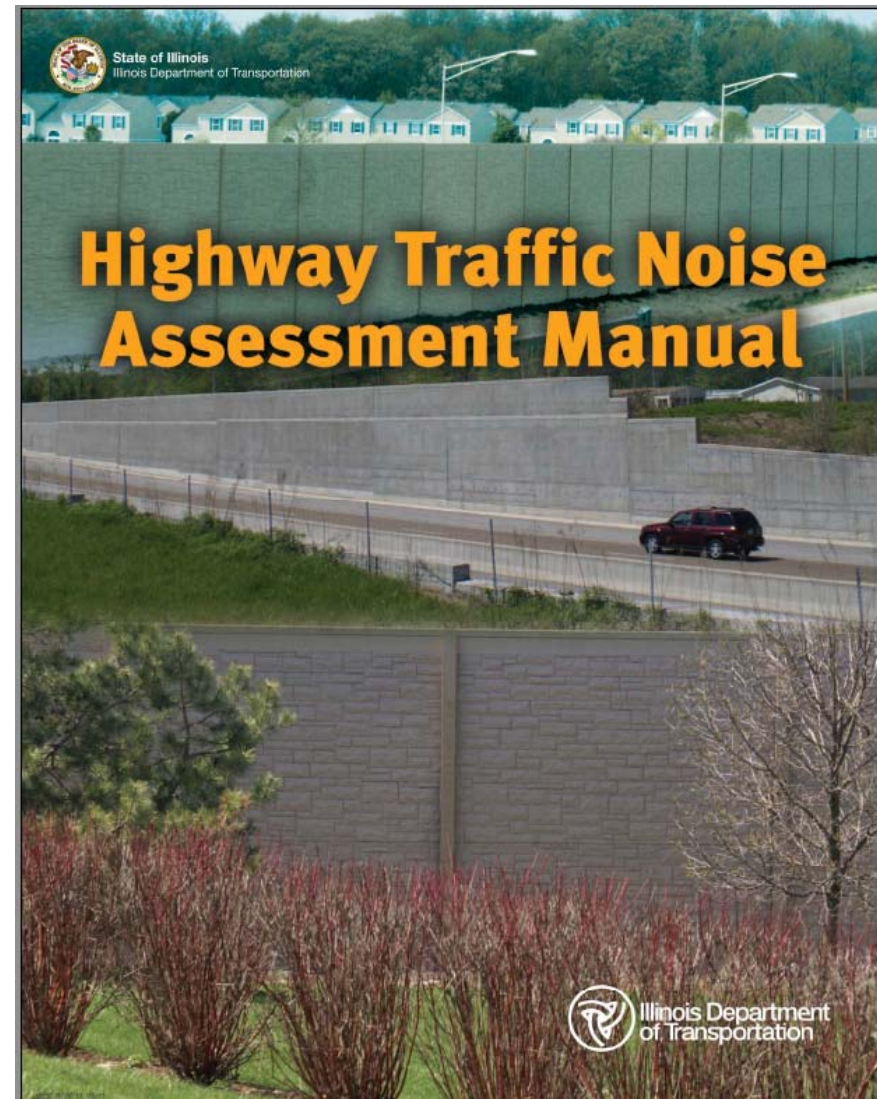




# 2011

## IDOT Traffic Noise Manual

Policy also updated in 2011

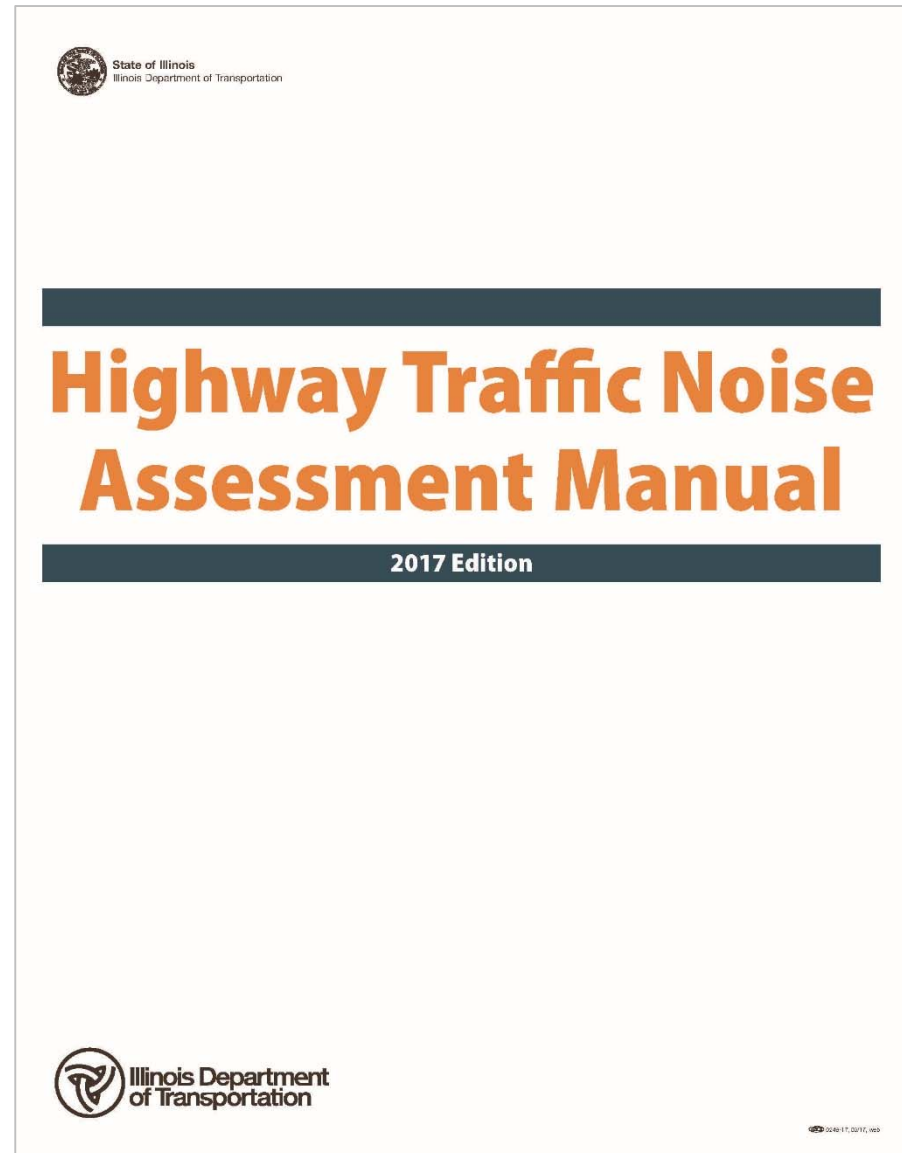






# 2017 IDOT Traffic Noise Manual

Policy also updated in 2017







## Three Ways the Ike Influenced IDOT 2017 Noise Policy:

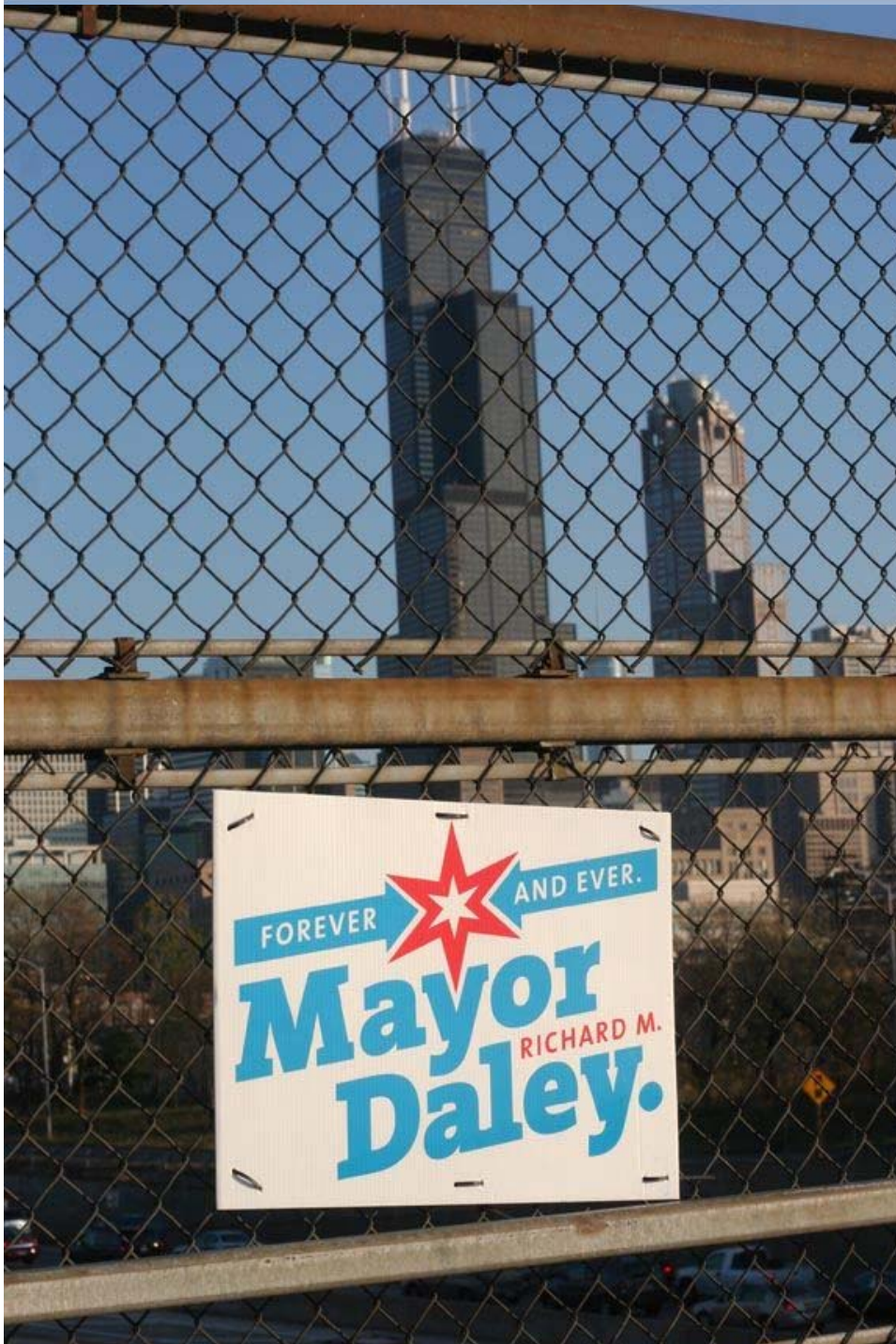
- Existing Noise Barrier Analysis
- Viewpoints Solicitation
- Alternative Barrier Materials





## EXISTING NOISE BARRIER ANALYSIS





## Chicago Noise Walls

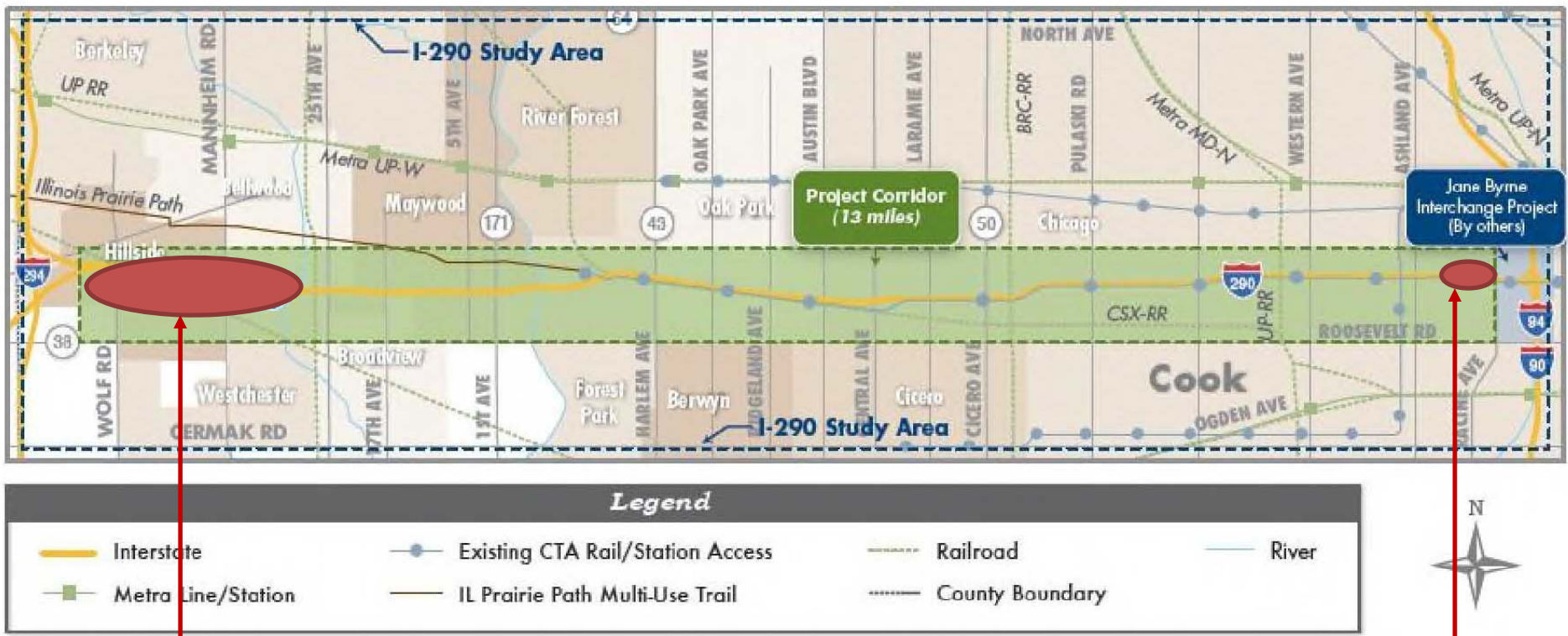
- Mayor Daley did not approve noise wall construction in City of Chicago
- 2010 updates to 23 CFR 772 allowed viewpoints solicitation, and noise walls started to be approved











Nine existing barriers

One proposed barrier for Jane Byrne interchange

















## FINAL 2017 IDOT POLICY: Existing Noise Barrier Analysis

- If the existing barrier is physically impacted by the project:
  - At a minimum, the same attenuation line or barrier height must be provided where physically feasible.
  - Any additional barrier modifications are subject to the feasible and reasonable test.
- If the existing barrier is not physically impacted by the project:
  - Any barrier modifications are subject to the feasible and reasonable test.









**ALTERNATIVE BARRIER MATERIALS**





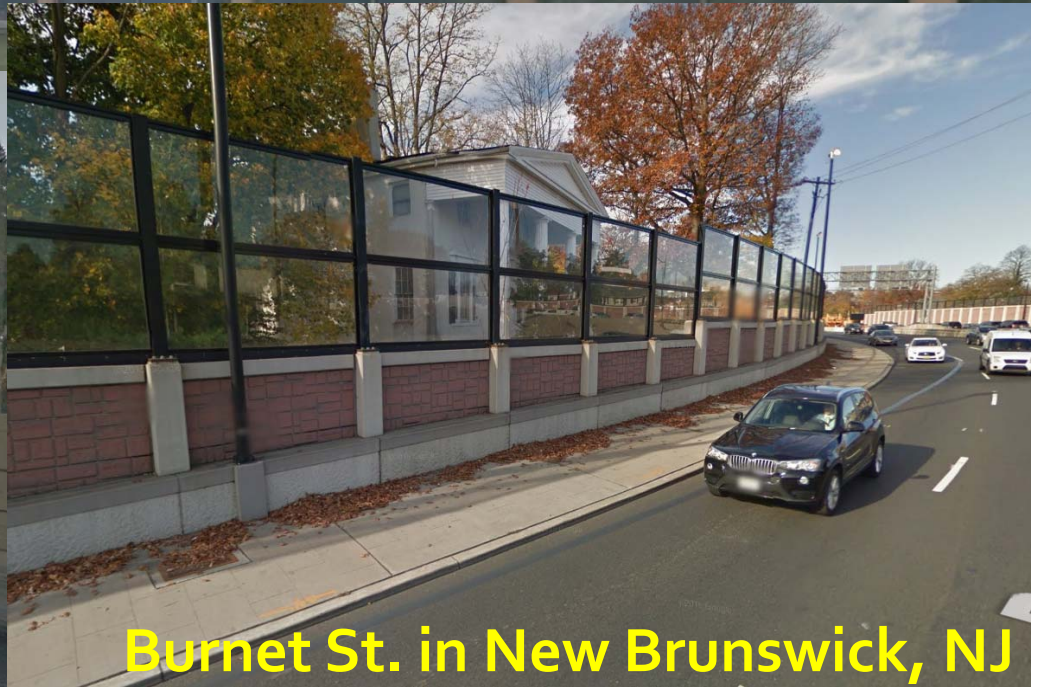




**I-75 in Dayton, Ohio**



**I-30 in Dallas, Texas**



**Burnet St. in New Brunswick, NJ**





Ohio T-top Noise Walls



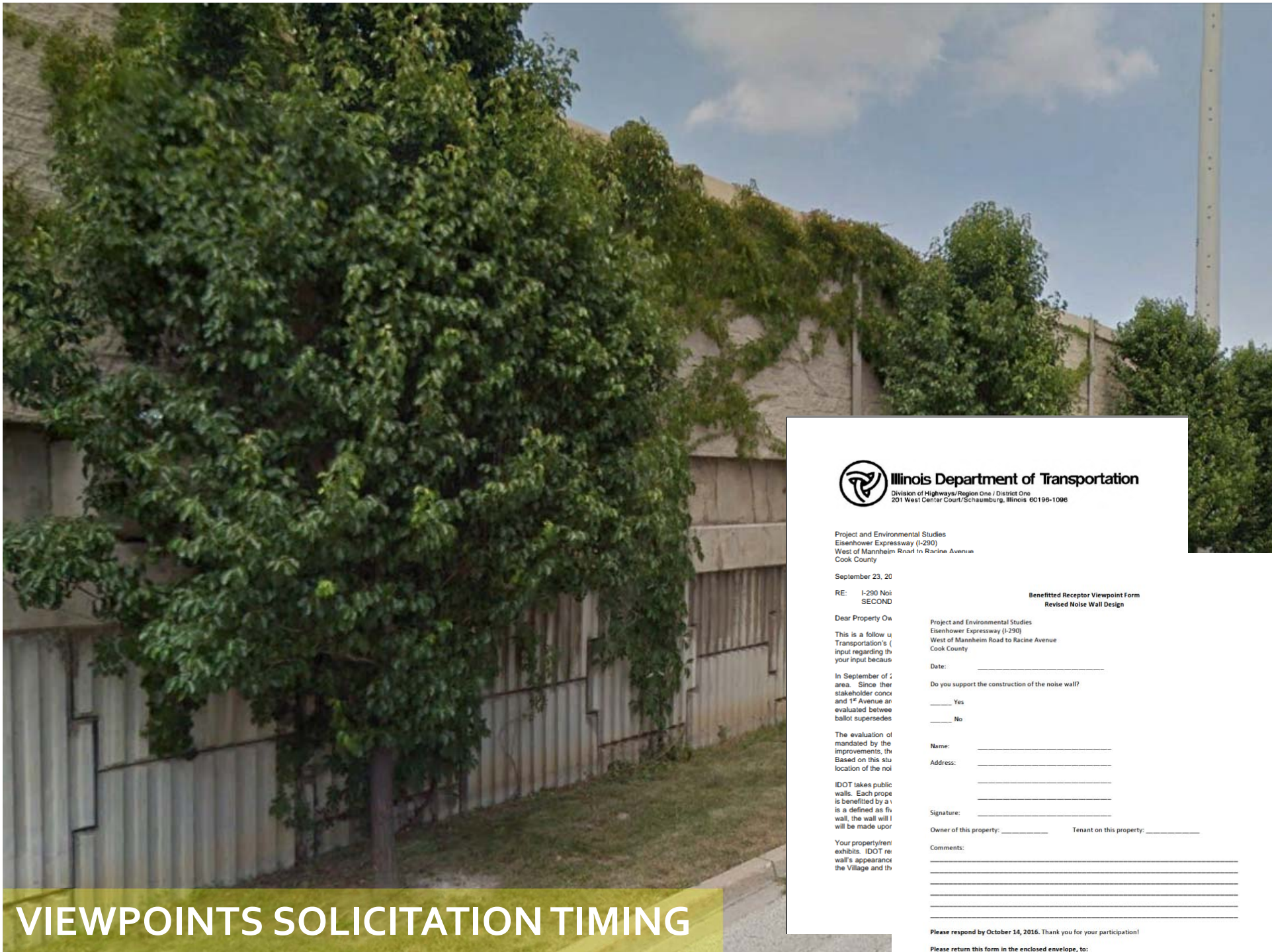




## **FINAL 2017 IDOT POLICY: Alternative Barrier Materials**

- Alternative noise barrier materials and/or designs may be considered by IDOT and FHWA Illinois Division on a case-by-case basis.
- Any proposed alternative noise barrier must meet IDOT specifications, notably the transmission loss specification.
- Local cost sharing may be required for projects involving alternative noise barrier materials that exceed the IDOT typical noise wall cost of \$30 per square foot.





# VIEWPOINTS SOLICITATION TIMING



## Illinois Department of Transportation

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

Project and Environmental Studies  
Eisenhower Expressway (I-290)  
West of Mannheim Road to Racine Avenue  
Cook County

September 23, 20

RE: I-290 Noi  
SECOND

Benefitted Receptor Viewpoint Form  
Revised Noise Wall Design

Dear Property Ow

Project and Environmental Studies  
Eisenhower Expressway (I-290)  
West of Mannheim Road to Racine Avenue  
Cook County

Date: \_\_\_\_\_

Do you support the construction of the noise wall?

☐ Yes

☐ No

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Signature: \_\_\_\_\_

Owner of this property: \_\_\_\_\_ Tenant on this property: \_\_\_\_\_

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

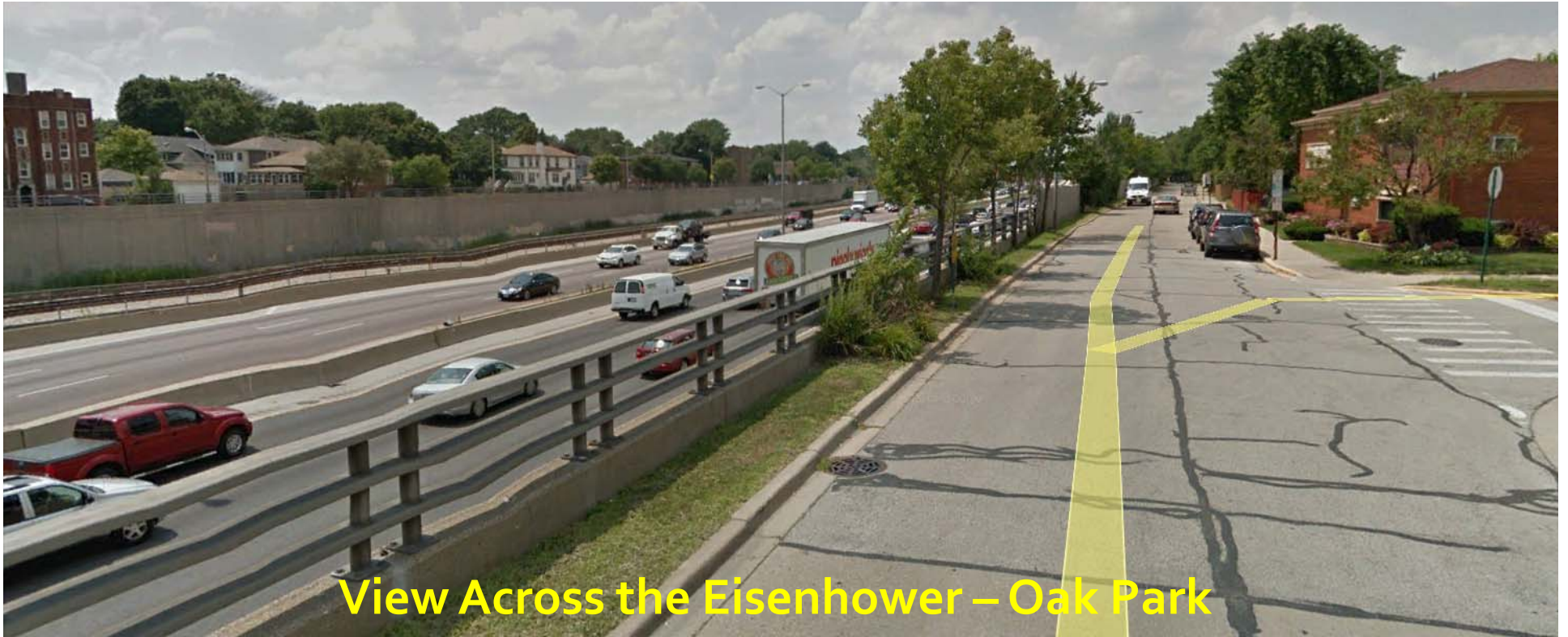
Please respond by October 14, 2016. Thank you for your participation!

Please return this form in the enclosed envelope, to:

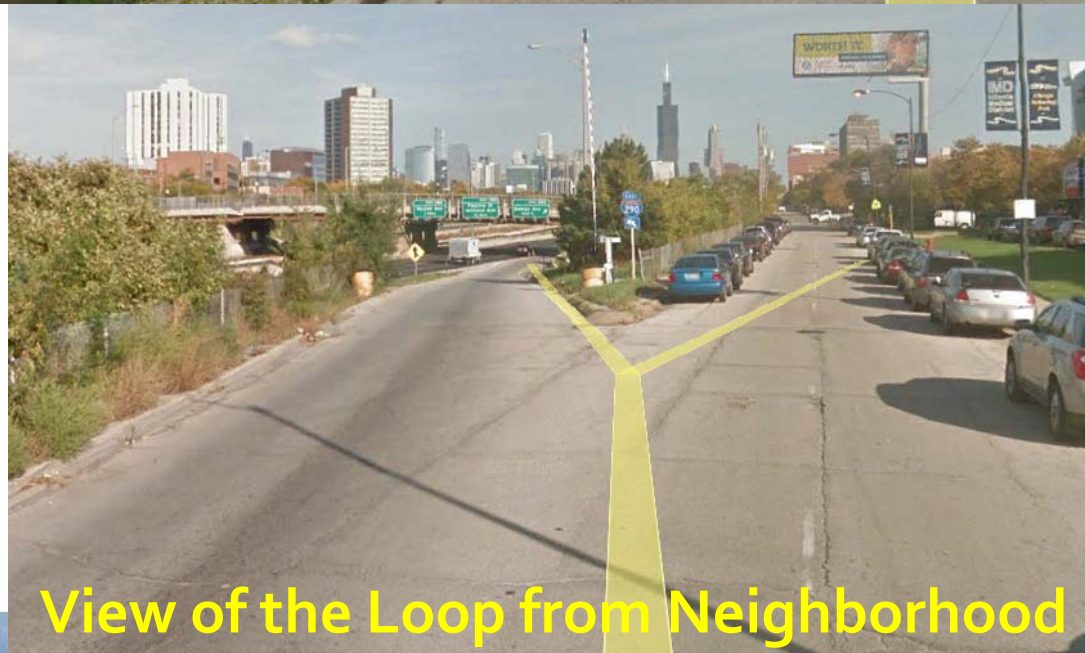








**View Across the Eisenhower – Oak Park**



**View of the Loop from Neighborhood**





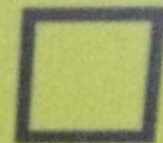
This I-290 noise wall rendering may or may not be located in your area. It is provided for informational purposes only to give a general idea of what a wall of similar height may look like.



# Noise Walls?



Yes



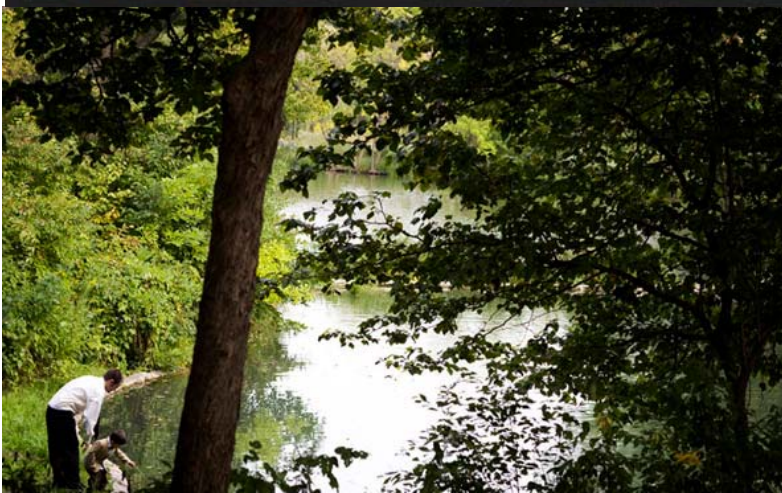
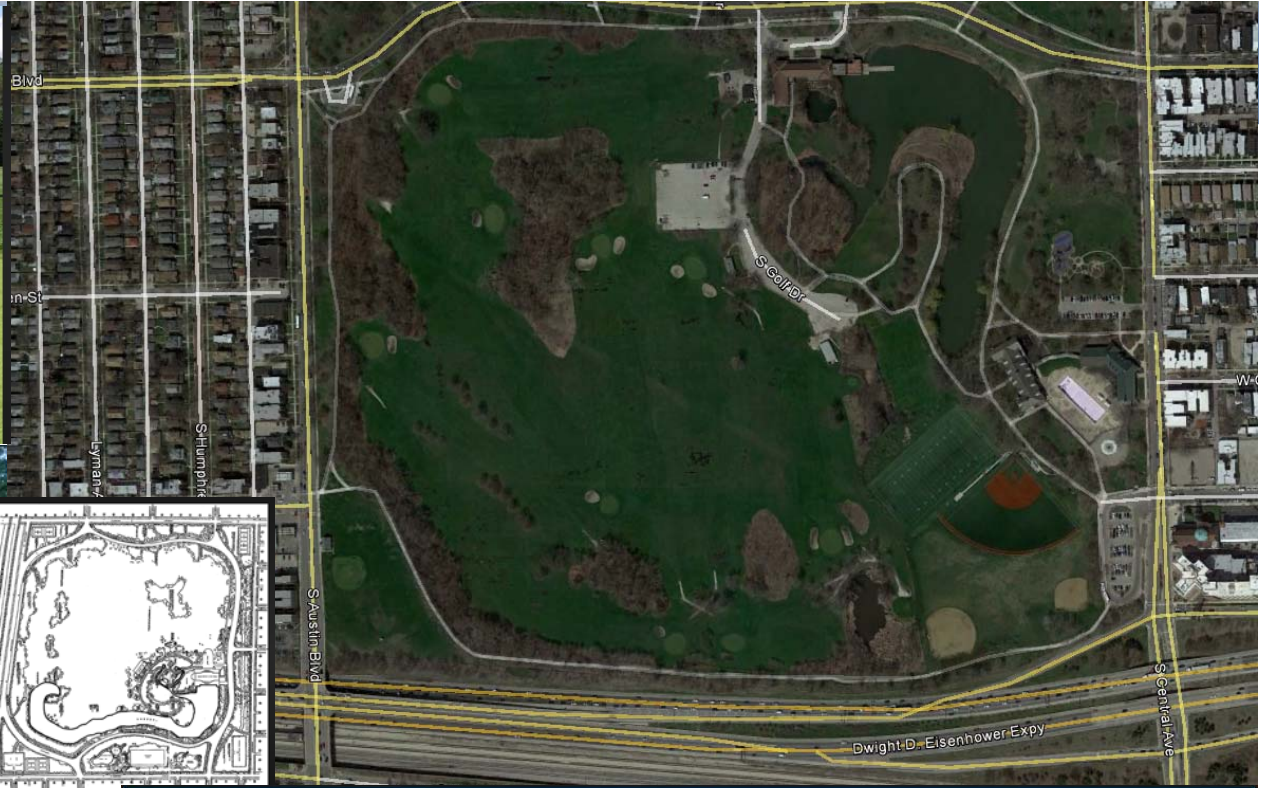
No

**Learn more before you vote!**

4 to 6 p.m. Nov. 5, 2015  
Village Hall, 123 Madison St.

[www.oak-park.us/eyeontheike](http://www.oak-park.us/eyeontheike)















## FINAL 2017 IDOT POLICY: Viewpoints Solicitation Timing

***The viewpoints solicitation may occur in either Phase I Preliminary Engineering and Environmental or in Phase II Design.***

- If a project involves a Section 106 (historic) property, the entire project is recommended to have viewpoints solicitation voting in Phase I to fulfill Section 106 process requirements in Phase I.
- If a project has funding beyond Phase I included in IDOT's five-year plan (Proposed Highway Improvement Program), voting can occur in Phase I due to the short timeframe prior to design.
- If a project does not have funding beyond Phase I included in IDOT's five-year plan, voting should occur in Phase II due to the long term nature of the project.





**THANK YOU!**

***Eisenhower Expressway FEIS/ROD Signed June 2017  
Notice of Availability published July 14***

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*Credits: Illinois Department of Transportation, WBEZ Chicago's Curious City, Chicago Tribune, Chicago Metropolitan Agency for Planning, Google Earth*