



# North Lake Shore Drive Corridor Planning Committee/ Task Force Meeting #6

May 18, 2017

# Welcome





# Meeting Agenda





- Introductions
- Recap of Task Force/CPC Meeting #5
- Context Tailored Treatments Workshop
- Level 2 Screening Process Preview
- Next Steps

# Recap of CPC/TF Meeting #5

- Meeting Held December 2016
- 72 Attendees
- Chicago Park District Lakefront Trail Update
- Alternatives Development and Evaluation
  - Review of Level 1 Screening Results
  - Overview of Level 2 Screening Process
- Case Study at Montrose/Wilson/Lawrence







# Level 1 Screening Summary

INITIAL RANGE OF ALTERNATIVES CATEGORY 	INITIAL RANGE OF ALTERNATIVES 	ALTERNATIVES DISMISSED 	ALTERNATIVES TO BE EVALUATED FURTHER 
No-Action	No-Action	N/A	N/A
Context Tailored Treatments	Context Tailored Treatments		Context Tailored Treatments
Transitways	Bus on Left – Dedicated Transitway		Bus on Left – Dedicated Transitway
	Bus on Right – Shoulder/Weaving Zones		Bus on Right – Shoulder/Weaving Zones
	Transitway Off Alignment		Transitway Off Alignment
	Light Rail Transit	Light Rail Transit	
Managed Lanes	High Occupancy Vehicle Lane		High Occupancy Vehicle Lane
	High Occupancy Toll Lane		High Occupancy Toll Lane
	Express Toll Lane		Express Toll Lane
	Bus Only Lane		Bus Only Lane
	Express Reversible Lanes		Express Reversible Lanes
Tunnels and Causeways	Submerged Express Tunnel in Lake	Submerged Express Tunnel in Lake	
	Causeway in Lake	Causeway in Lake	
	Land Based Express Tunnel	Land Based Express Tunnel	



# Level 1 Screening Summary

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No-Action	No-Action	N/A	N/A
<b>Context Tailored Treatments</b>			
Transitways	Bus on Left – Dedicated Transitway Bus on Right – Shoulder/Weaving Zones Transitway Off Alignment Light Rail Transit	Light Rail Transit	Bus on Left – Dedicated Transitway Bus on Right – Shoulder/Weaving Zones Transitway Off Alignment
Managed Lanes	High Occupancy Vehicle Lane High Occupancy Toll Lane Express Toll Lane Bus Only Lane Express Reversible Lanes	Express Reversible Lanes	High Occupancy Vehicle Lane High Occupancy Toll Lane Express Toll Lane Bus Only Lane
Tunnels and Causeways	Submerged Express Tunnel in Lake	Submerged Express Tunnel in Lake	
	Causeway in Lake	Causeway in Lake	
	Land Based Express Tunnel	Land Based Express Tunnel	

# Detailed Discussion at Future Task Force



# Context Tailored Treatment Definition

## Context Tailored Treatments (CTT) are:

- Improvements that assume existing travel lanes are maintained (for the most part)
- Focus on spot safety and operational improvements
- Provide the base for transitway and managed lanes alternatives
- Include bicycle, pedestrian, and transit improvements





# Context Tailored Treatments

The NLSD corridor is separated into 3 sections. One of these sections is on your table.

- 1) Grand to Diversey
- 2) Diversey to Montrose
- 3) Montrose to Hollywood

Within each section, the three Context Tailored Treatment alternatives are depicted on one large exhibit.

- 1) Corridor Modernization Concept
- 2) Compressed Roadway Concept
- 3) Frontage Drive Concept



# Context Tailored Treatments

## **Corridor Modernization Concept (Alternative 1)**

- Modernizes the NLSD facility to improve safety and reduce bottlenecks.

## **Compressed Roadway Concept (Alternative 2)**

- Minimizes transportation footprint.

## **Frontage Drive Concept (Alternative 3)**

- Depresses Outer Drive below grade and splits Inner Drive into one-way frontage drives: Grand to ELSD and Belmont to Montrose.





# Context Tailored Treatments

When reviewing, you'll notice there are differences and similarities between the alternatives

We'd appreciate your comments on:

- Issues/concerns with design elements
- Preferences for design elements
- Locations where additional information needed

# NLSD Purpose and Need

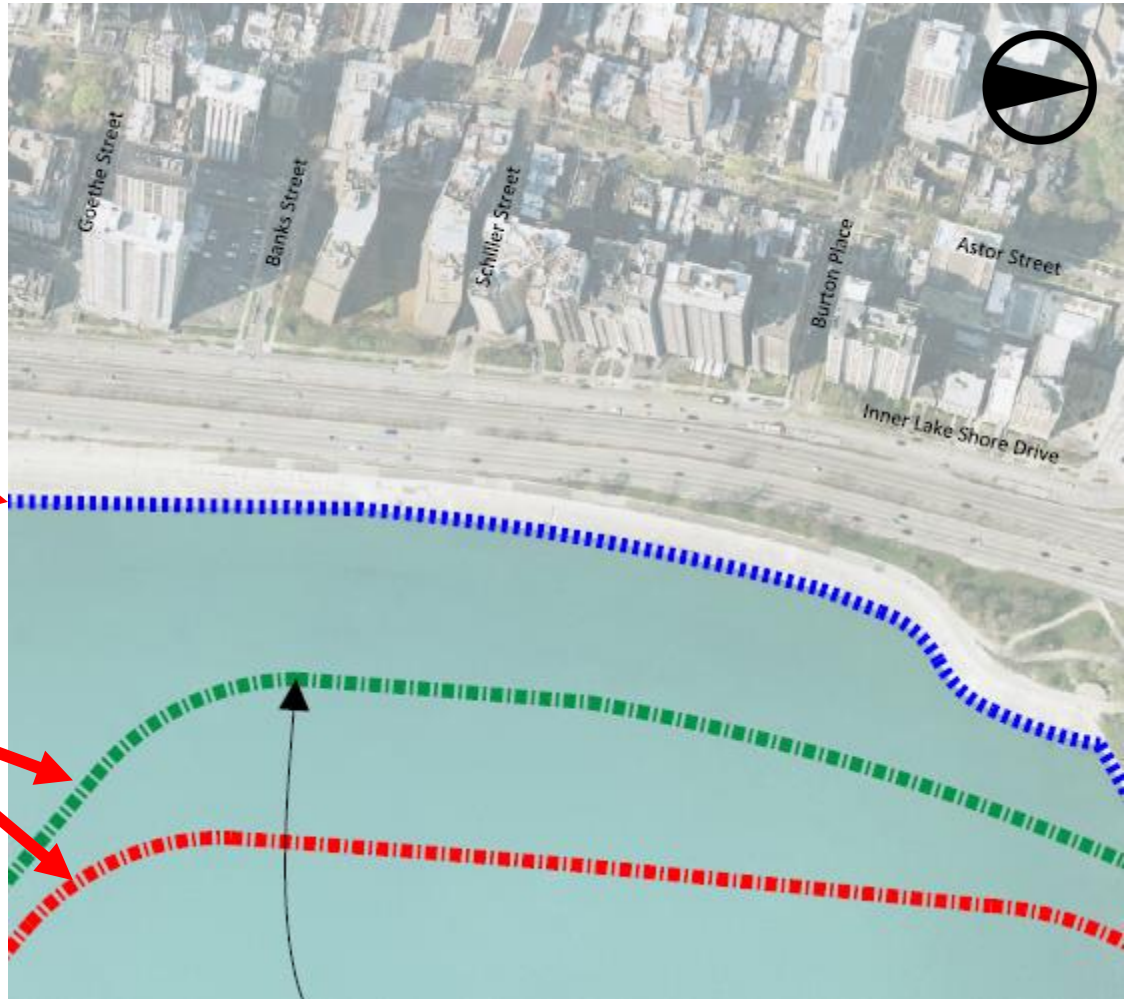
- Improve safety for all users
- Improve mobility for all users
- Address infrastructure deficiencies
- Improve access and circulation



# Shoreline

Existing shoreline

Alternative shoreline options





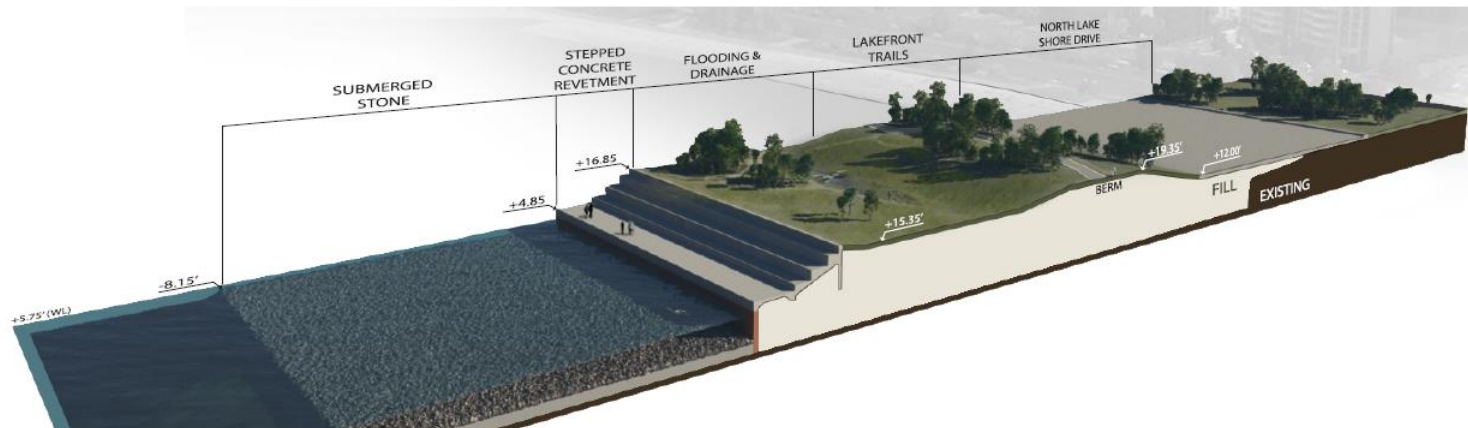
# Shoreline Protection

- The City of Chicago and U.S. Army Corps of Engineers are continuously working together on shoreline protection improvements.
- All Context Tailored Treatments include substantial shoreline protection features between Grand Avenue and Fullerton Parkway.
- Shoreline protection features are designed to protect NLSD and the Lakefront Trail from wave overtopping during large storm events.



# Shoreline Protection

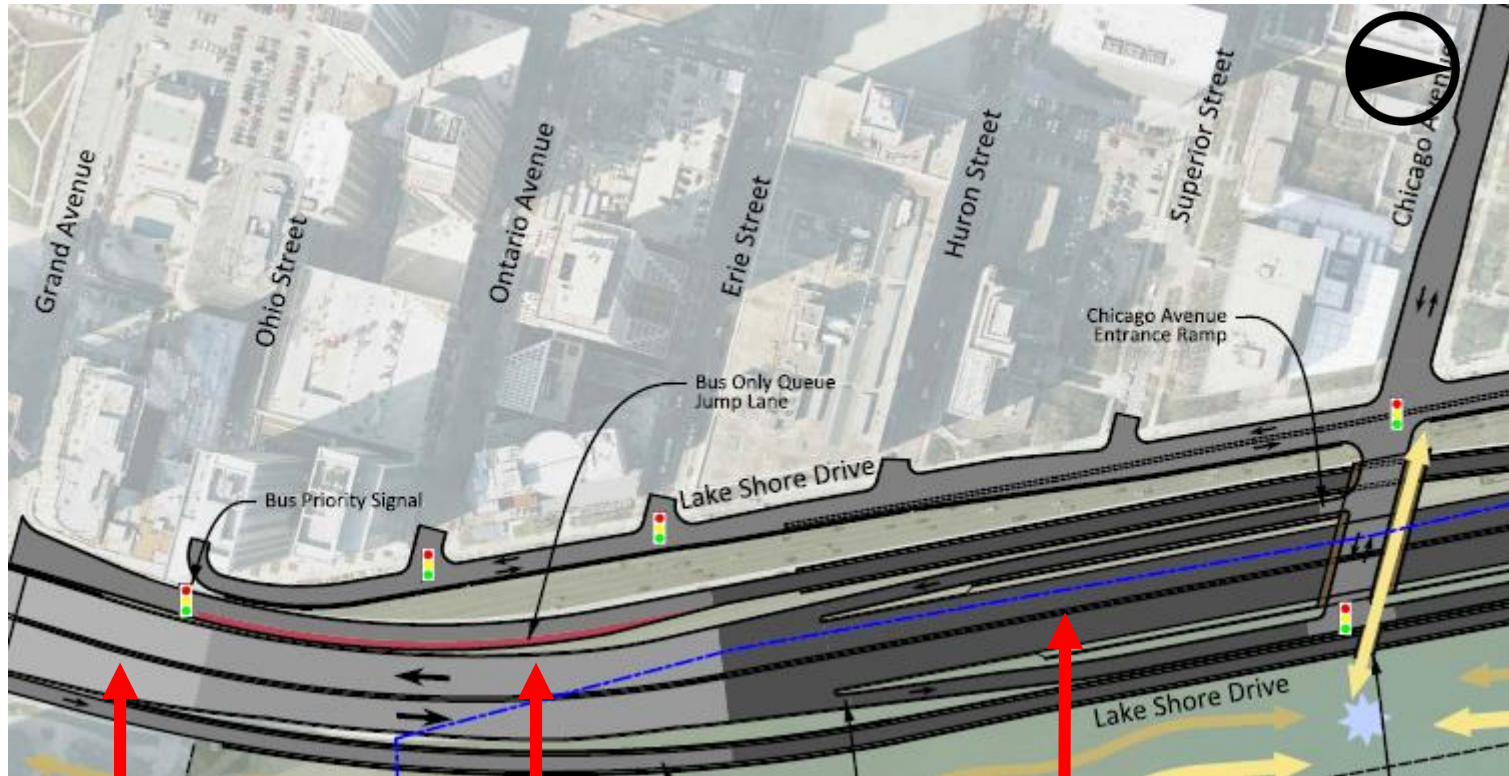
## Revetment Wall Shoreline Concept



Revetment Wall Alternative - Between Oak Street Beach and North Avenue (Section 2a)

DRIVE	WATER LEVEL (ft CCD)	DEPTH (ft)	SUBMERGED STONE BENCH	FLOOD BERM ELEVATION (ft CCD)
Drive - At Grade	20 Yr (+4.85)	-13.15	Yes	19.35

# Roadway Elevation



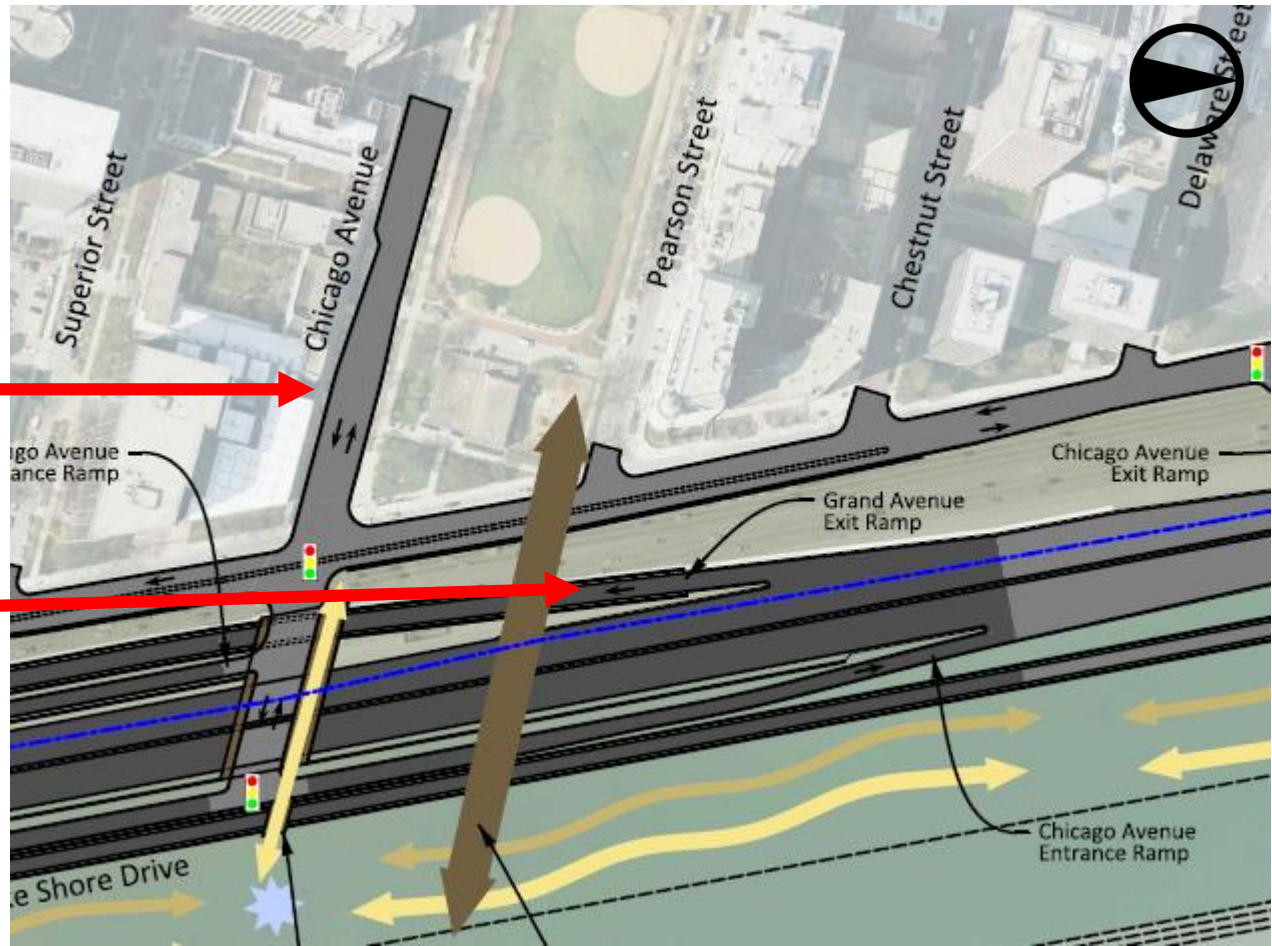
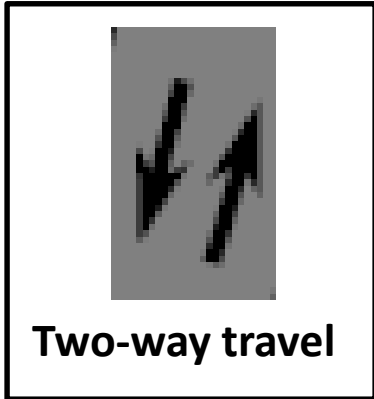
  
Above current grade

  
At current grade

  
Below current grade

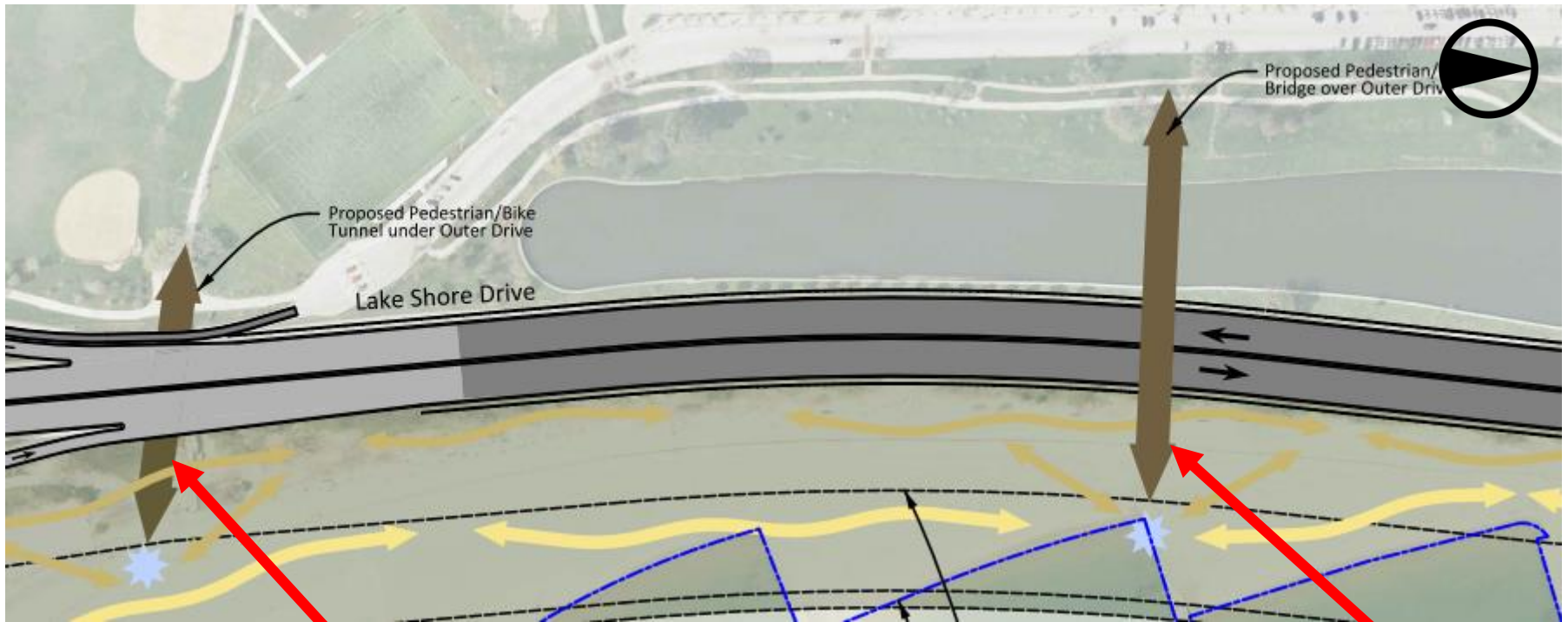


# Travel Direction





# Pedestrian/Bike Bridges & Underpasses



**Pedestrian/  
Bike  
Underpass**



**Pedestrian/  
Bike Bridge**




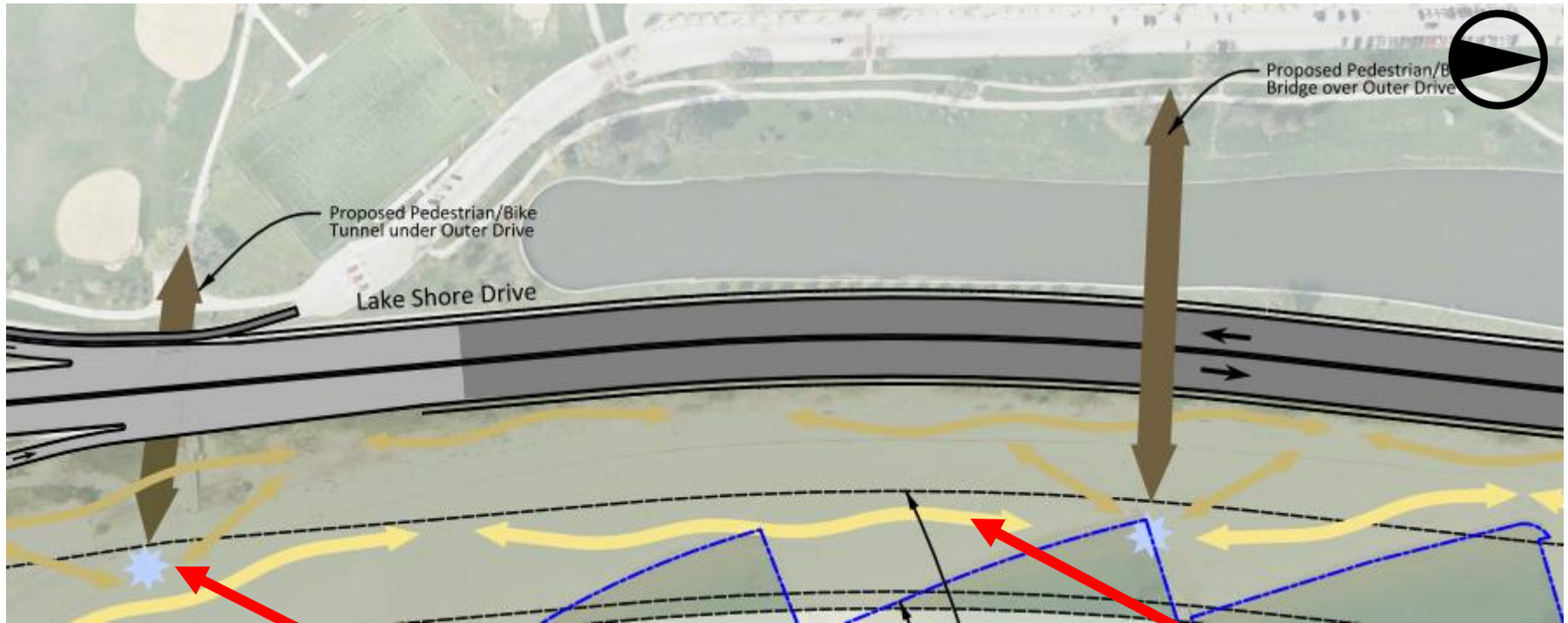
# Underpass




**Example Underpass  
Grant Park**




# Bicycle/Pedestrian Trails



**Non-motorized Junction**



**Higher Speed Trail**



**Lower Speed Trail**

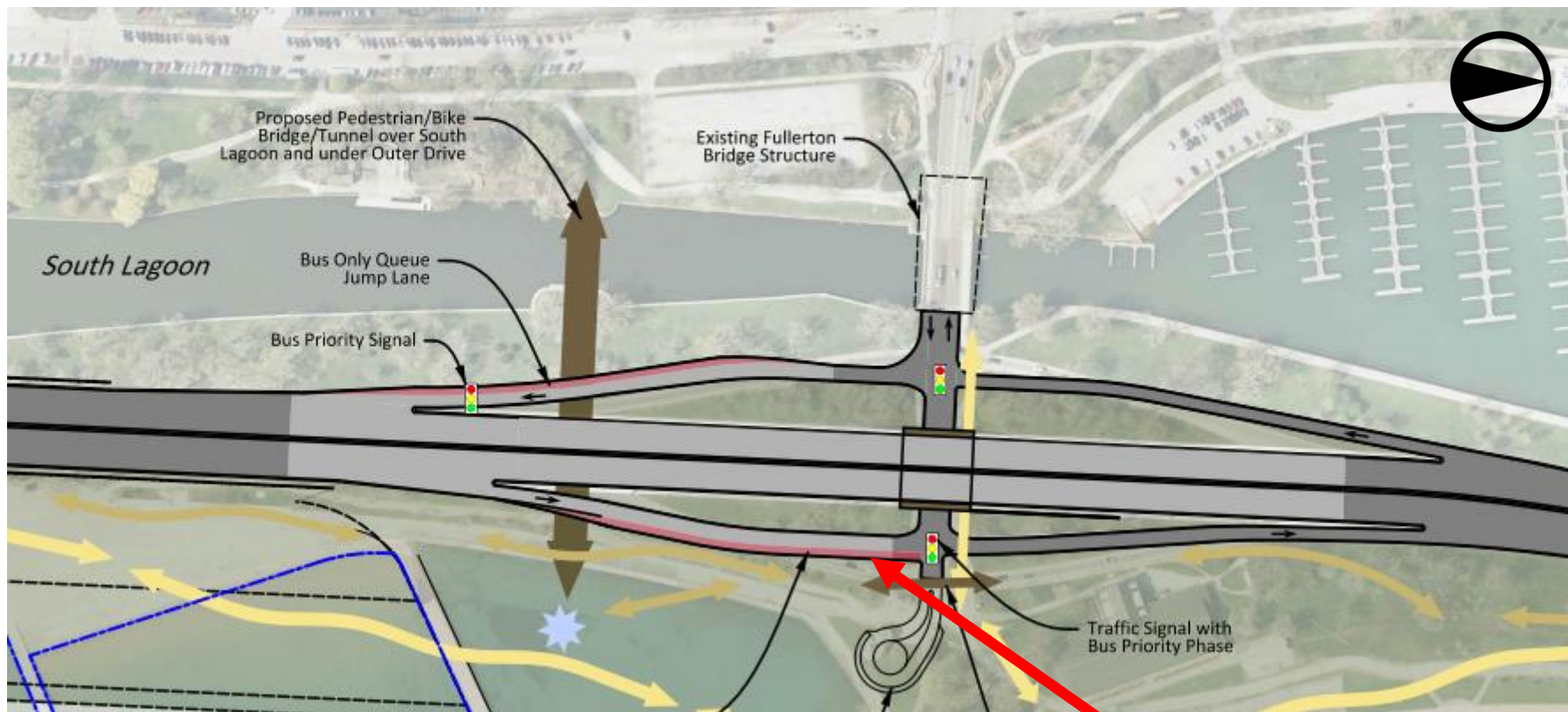


*Higher Speed Trail is closer to roadway.  
Lower Speed Trail is closer to park.*





# Transit Advantage



**Bus-Only Facility**



# Embankment

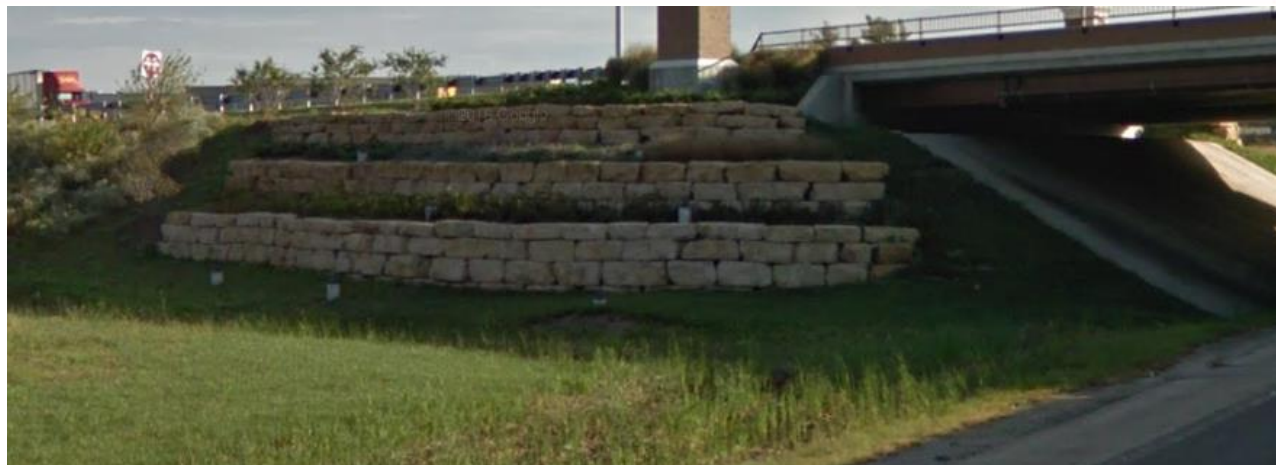


**Example Embankment  
South Lake Shore Drive**

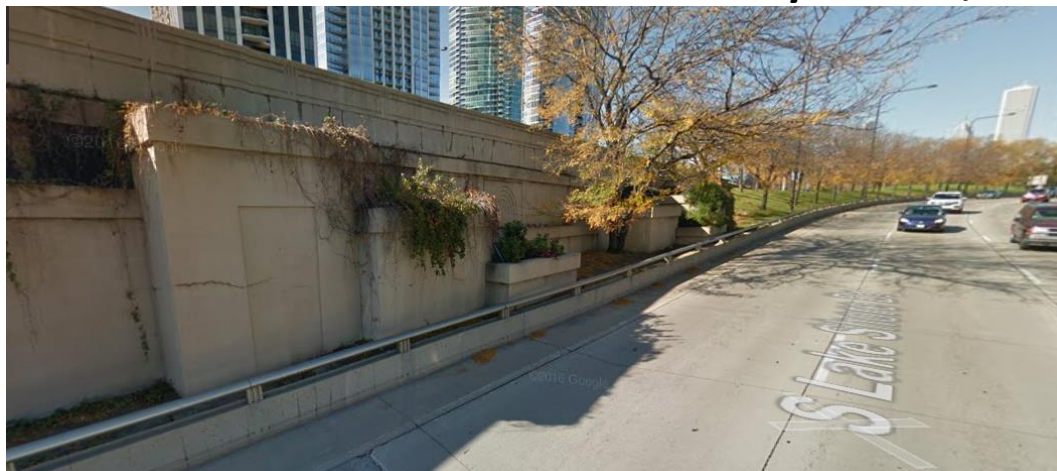




# Retaining Wall



**Sample Terraced Retaining Wall  
I-55 & County Line Rd, Burr Ridge**



**Sample Terraced Retaining Wall  
South Lake Shore Drive**



# Context Tailored Treatments Workshop

Breakout 1: 40 min

Breakout 2: 30 min

**Break: 15 min**

Breakout 3: 30 min

**BREAKOUT GROUPS**  
(color assigned groups)





# Context Tailored Treatments

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# Breakout Feedback Report





# Level 2 Screening Process Review & Next Steps

# Level 2 Screening Process

- Purpose & Need Statement contains the overall screening criteria:
  - Safety
  - Mobility
  - Infrastructure deficiencies
  - Access and circulation
- Identified Environmental Resources
- Evaluate Stakeholder Feedback
- Identify Measures for each Criterion
- Test each Alternative based on Criteria/Measures
- Present Results for Consideration

# NLSD Phase I Study Next Steps

- NTTS Community Meeting: June 6, Senn High School
- Public Meeting #3: July 12, DePaul University
- Incorporate feedback and continue analyses
- Continue alternatives development and conduct Level 2 screening
  - Task Force #7:  
Fall 2017
    - Level 2 Criteria
    - Transitways
    - Managed Lanes







Questions?



# North Lake Shore Drive

[www.northlakeshoredrive.org](http://www.northlakeshoredrive.org)

*Thank You*

