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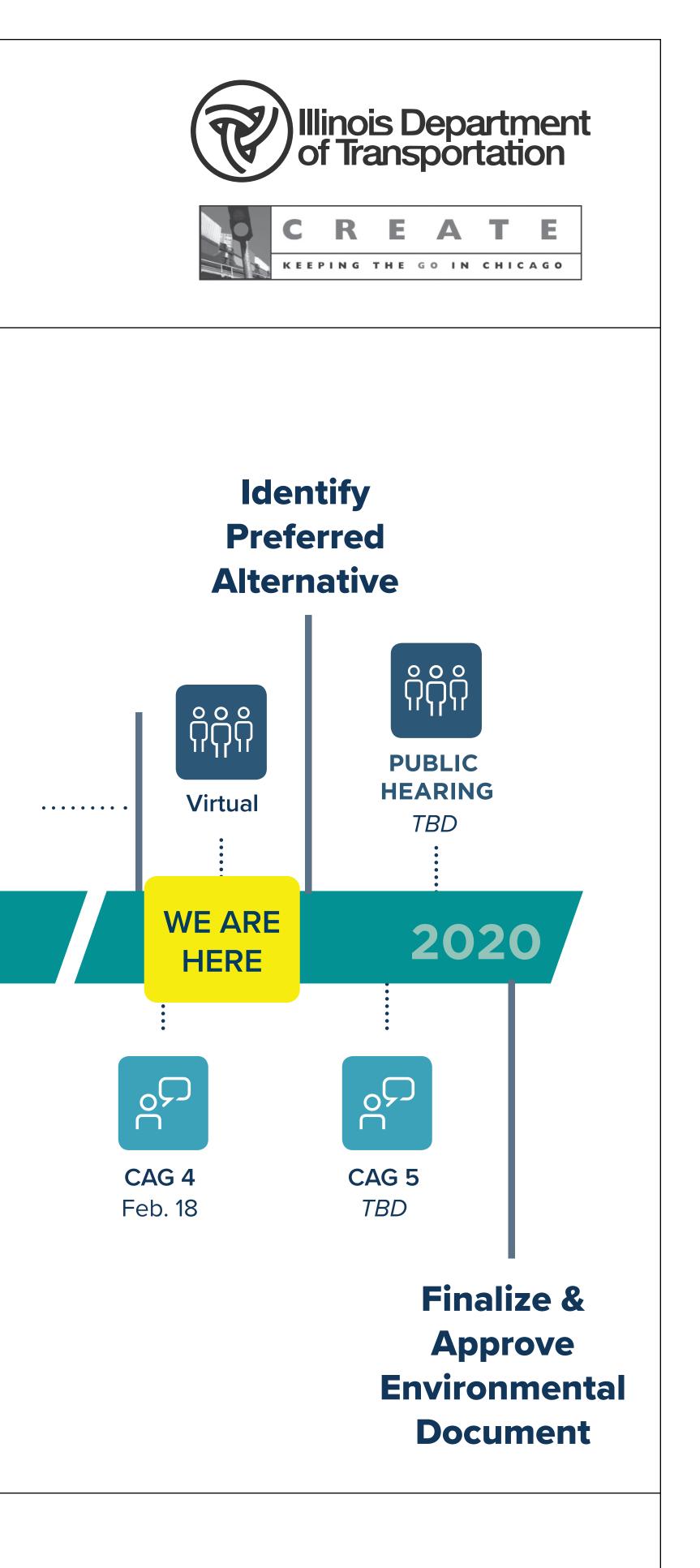
**MEETINGS** 

# **Phase | Process**





(CAG) MEETINGS







• • • • • •

### PLANNING STAGE

anticipated completion 2020

# Preliminary **Engineering &** Environmental **Studies**

NOTE: This improvement is included in the Department's FY 2021-2026 Proposed Highway Improvement Program. Current engineering efforts are targeted to enable a contract letting in the later years of the multi-year program contingent upon plan readiness, land acquisition, and funding availability through future annual legislative appropriations.

# **Project Development Process**



. . . . . . .

24-36 months

Funding identified

# **Contract Plan Preparation &** Land Acquisition



### **CONSTRUCTION** STAGE

24-36 months

Funding identified

# Project Construction





# The purpose of the project is to enhance safety, increase mobility, and improve multimodal connectivity.

The study team evaluated the following existing conditions and other data to determine the need for improvement:

- Vehicular & Rail and Highway Pedestrian Crashes Conflict
- Emergency Services

The complete Purpose and Need document is available on the project website **il43study.org/documents** 

# **Purpose and Need Statement**

Traffic Analysis



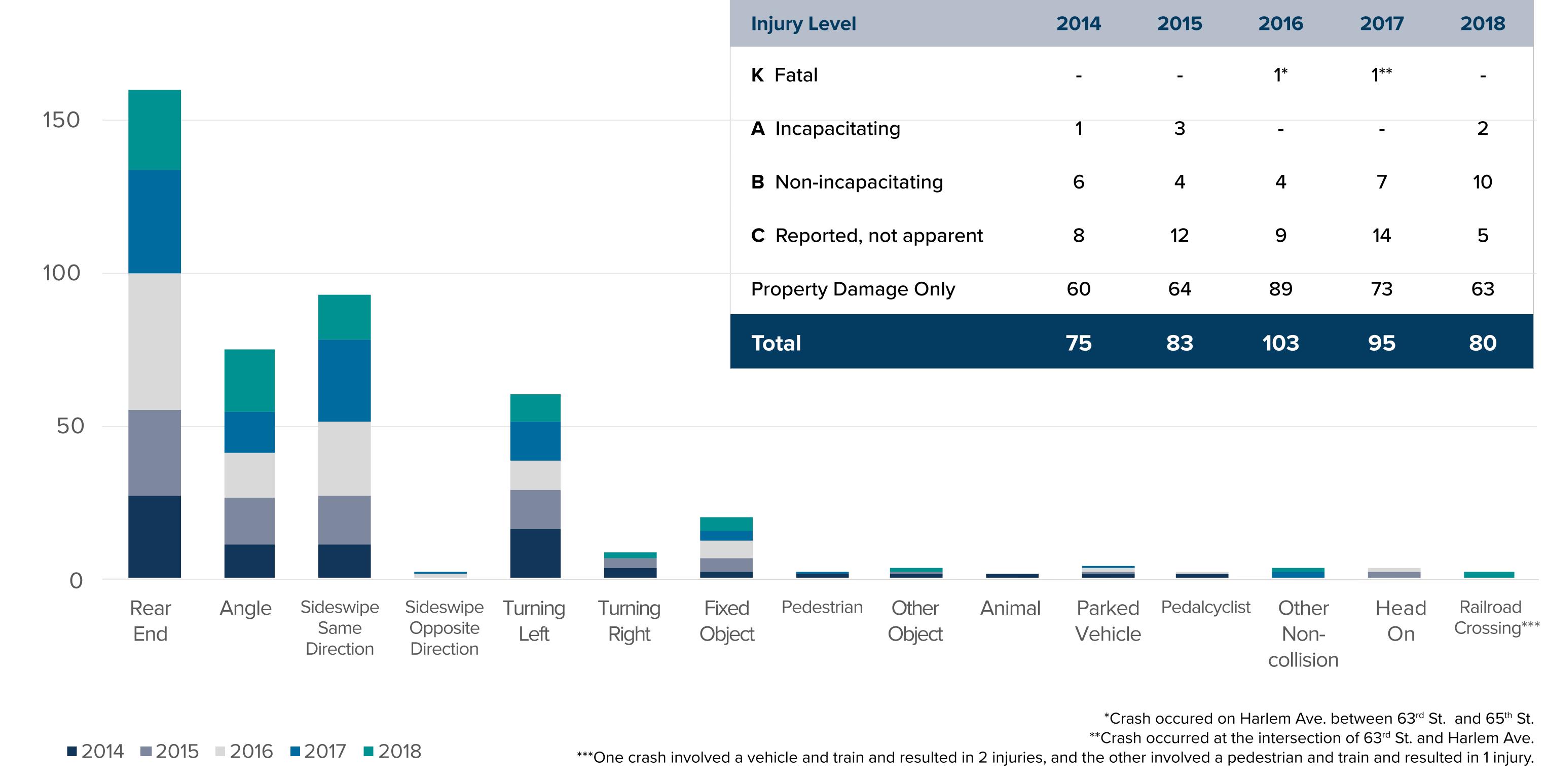
# Intermodal Transportation

## Public Transportation

# Non-Motorized Modes







# Crash Study Results 2014–2018

Injury Level	2014	2015	2016	2017	2018
K Fatal	-	-	1*	1**	-
A Incapacitating	1	3	_	_	2
<b>B</b> Non-incapacitating	6	4	4	7	10
<b>C</b> Reported, not apparent	8	12	9	14	5
Property Damage Only	60	64	89	73	63
Total	75	83	103	95	80









### Intermodal Transportation

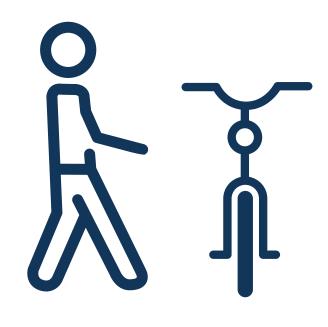
The IL 43 corridor and eastwest movements are critical to manufacturing and freight along I-55.

\*According to a survey conducted by the Village of Summit and the Active Transportation Alliance



### Public Transportation

# CTA and PACE operate busalorroutes that are impacted whenlactrains occupy the crossings.nat





### **Non-Motorized Modes**

It is difficult to bike or walk along Harlem Ave. due to lack of bike separation and narrow sidewalks.\*

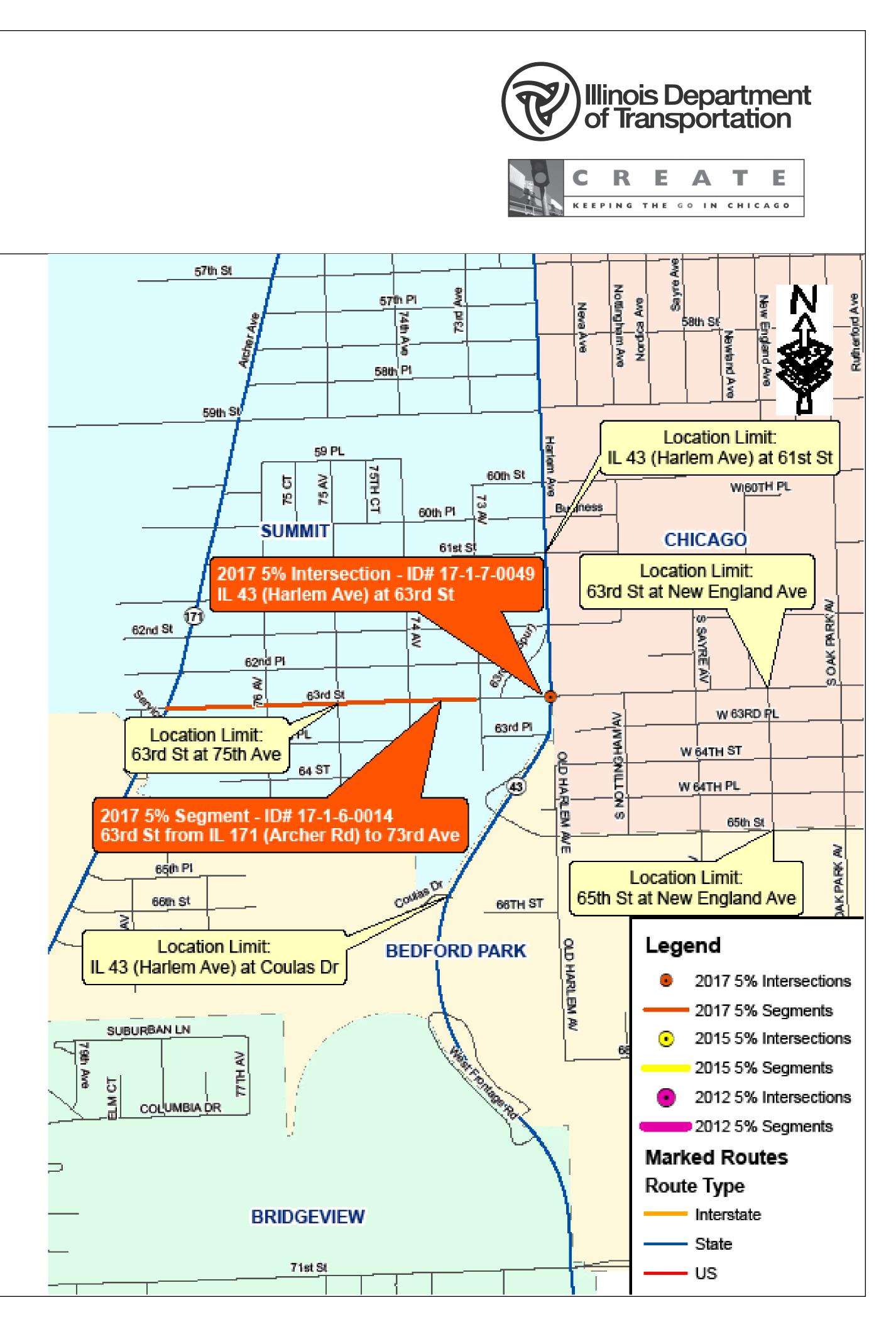


**5% Locations** 2012, 2015, 2017

# Locations along state highways that are identified as 5% locations are within the top 5% of locations statewide with the greatest potential for safety improvement, based on crash severity and frequency.

\*2013, 2014 & 2016 5% reports were not generated









### **ALTERNATIVES CONSIDERED**

- **Group 1** Minor Build
- Group 2 Belt Railway Co. Railroad Elevated / Depressed
- Group 3 63<sup>rd</sup> St. Elevated (Overpass)
- **Group 4** 63<sup>rd</sup> St. Depressed (Underpass)
- **Group 5** 65<sup>th</sup> St. Elevated (Overpass)
- **Group 6** 65<sup>th</sup> St. Depressed (Underpass)
- Group 7 Combinations for 63<sup>rd</sup> St.

and 65<sup>th</sup> St. Elevated/Depressed

## Determine

if alternatives meet the Purpose and Need

Group 1: Minor Build Eliminated



# Conduct stakeholder outreach and analyze Belt Railway Co. Railroad impacts

Group 2: Belt Railway Co. Railroad Elevated/Depressed Eliminated



### **Evaluate**

remaining alternatives against criteria

Groups 3-6 evaluated





# **Criteria Screening Matrix**

### Magnitude Legend

Large impact or magnitude

Moderate impact or magnitude

Small/no impact or magnitude

### CRITERIA

All impacts are based on preliminary analysis. Alternatives will be further studied to limit and mitigate impacts.

### Preliminary Residential Displacements Parcels Includes parcels where building is impacted by

improvement or access is impacted by retaining wall.

### Preliminary Business Displacements Parcels

Includes parcels where building is impacted by improvement or access is impacted by retaining wall.

### Impact to Nottingham Park

Section 4(f) Resources

### Impacts on Community Cohesion

Adverse impact to community cohesion such as fragmenting neighborhoods with a physical disruption.

### Multimodal Ease Does not support multimodal transportation.

Community Support Feedback from prior community meetings.

### Level of Service Transportation level of service for each alternative.

### **Construction Challenges** Considers depressed/elevated alternatives, non-standard bridge configuration, and Harlem Avenue realignment.

**Construction Duration** Estimated construction duration.

### Long-Term Maintenance Estimated yearly maintenance cost.

### **Preliminary Project Cost**

Estimated construction cost.

	GROUP 3 63 <sup>rd</sup> St. Elevated			63 <sup>rd</sup> \$	GROUP 4 63 <sup>rd</sup> St. Depressed		GROUP 5 65 <sup>th</sup> St. Elevated			GROUP 6 65 <sup>th</sup> St. Depressed		
	<b>6</b> Elevated with Jughandle	<b>7</b> Elevated with Ramp	<b>8</b> Elevated with Harlem Realign	<b>9</b> Elevated Intersection	<b>10</b> Depressed with Jughandle	<b>11</b> Depressed with Ramp	<b>12</b> Depressed Intersection	<b>13</b> Elevated with Ramp	<b>14</b> Elevated Intersection	<b>31</b> Elevated Roundabout	<b>15</b> Depressed with Ramp	<b>16</b> Depressed Intersection
Preliminary Residential Displacements (Properties/Units)	24 / 83	26 / 85	28 / 87	26 / 85	15 / 73	16 / 87	14 / 72	6 / 6	6 / 6	9 / 9	2/2	2/2
Preliminary Business Displacements (Properties/Units)	13 / 16	25 / 28	25 / 28	25 / 28	12 / 15	25 / 28	25 / 28	14 / 17	14 / 17	15 / 18	11 / 11	11 / 11
Impacts to Nottingham Park Section 4 (f) Resource)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	None	None	None	None	None
Impacts to Community Cohesion	Disruptive	Disruptive	Disruptive	Disruptive	Disruptive	Disruptive	Disruptive	No Disruption	No Disruption	No Disruption	No Disruption	No Disruption
Multimodal Ease Transit, Bike/Pedestrian	Limited	Limited	Supported	Supported	Limited	Limited	Supported	Limited	Supported	Limited	Limited	Supported
Community Support	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Not Supported	Supported	Supported	Supported	Supported	Supported
Level of Service	Acceptable	Good	Poor	Poor	Acceptable	Good	Poor	Good	Acceptable	Good	Good	Acceptable
Construction Challenges	Minimal	Moderate	Moderate	Minimal	Moderate	Large	Moderate	Moderate	Minimal	Large	Large	Moderate
Construction Duration in years	2.2	2.6	2.3	2.2	2.8	2.9	2.3	1.9	2.2	2.1	2.7	2.3
Long-Term Maintenance	\$3M	\$4M	\$3M	\$3M	\$5M	\$5M	\$4M	\$4M	\$3M	\$4M	\$5M	\$4M
Preliminary Project Costs	\$65M	\$99M	\$83M	\$83M	\$96M	\$120M	\$108M	\$98M	\$81M	\$105M	\$116M	\$101M



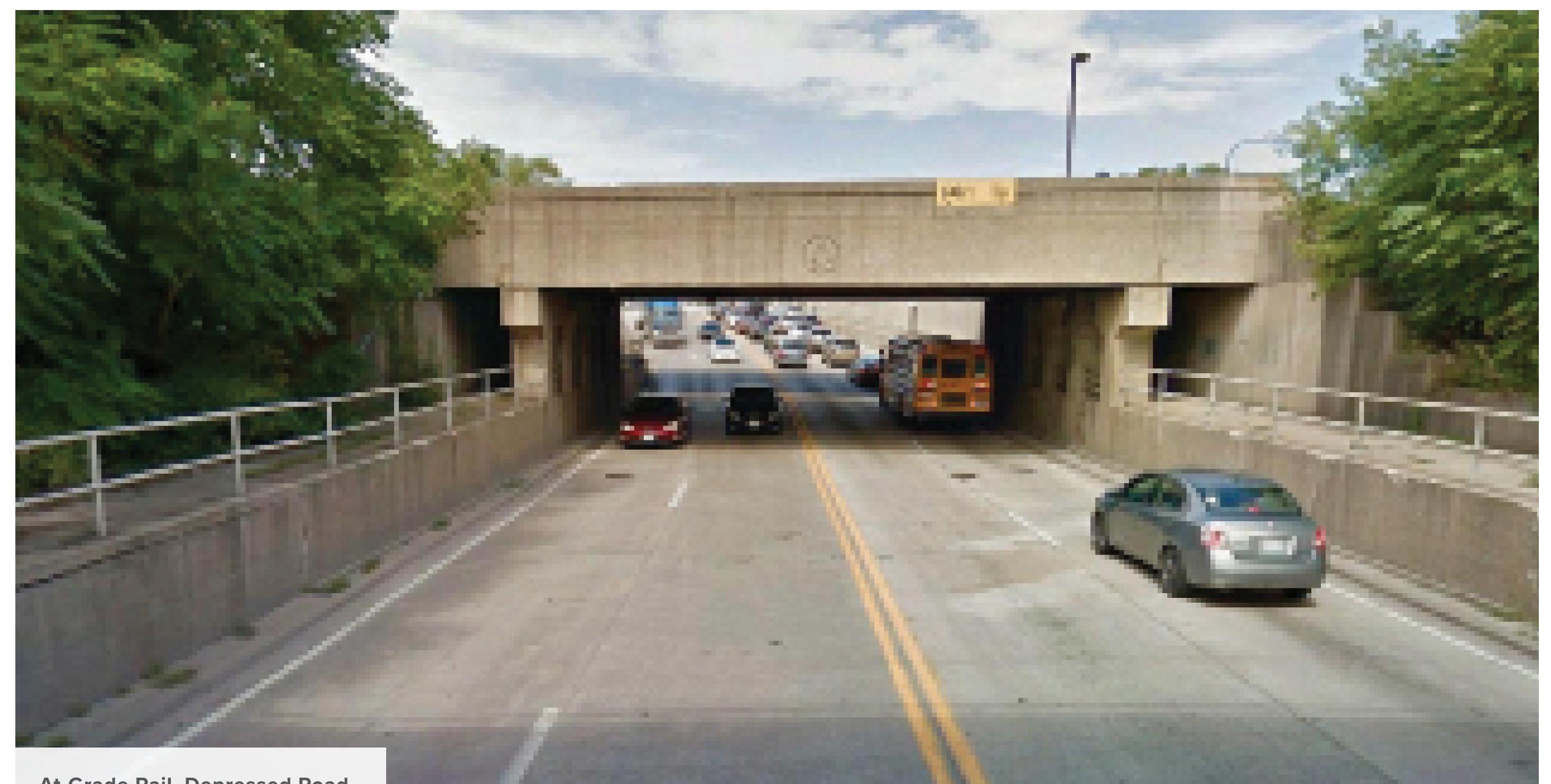


# Grade Separation Examples











Archer Ave. under B&O



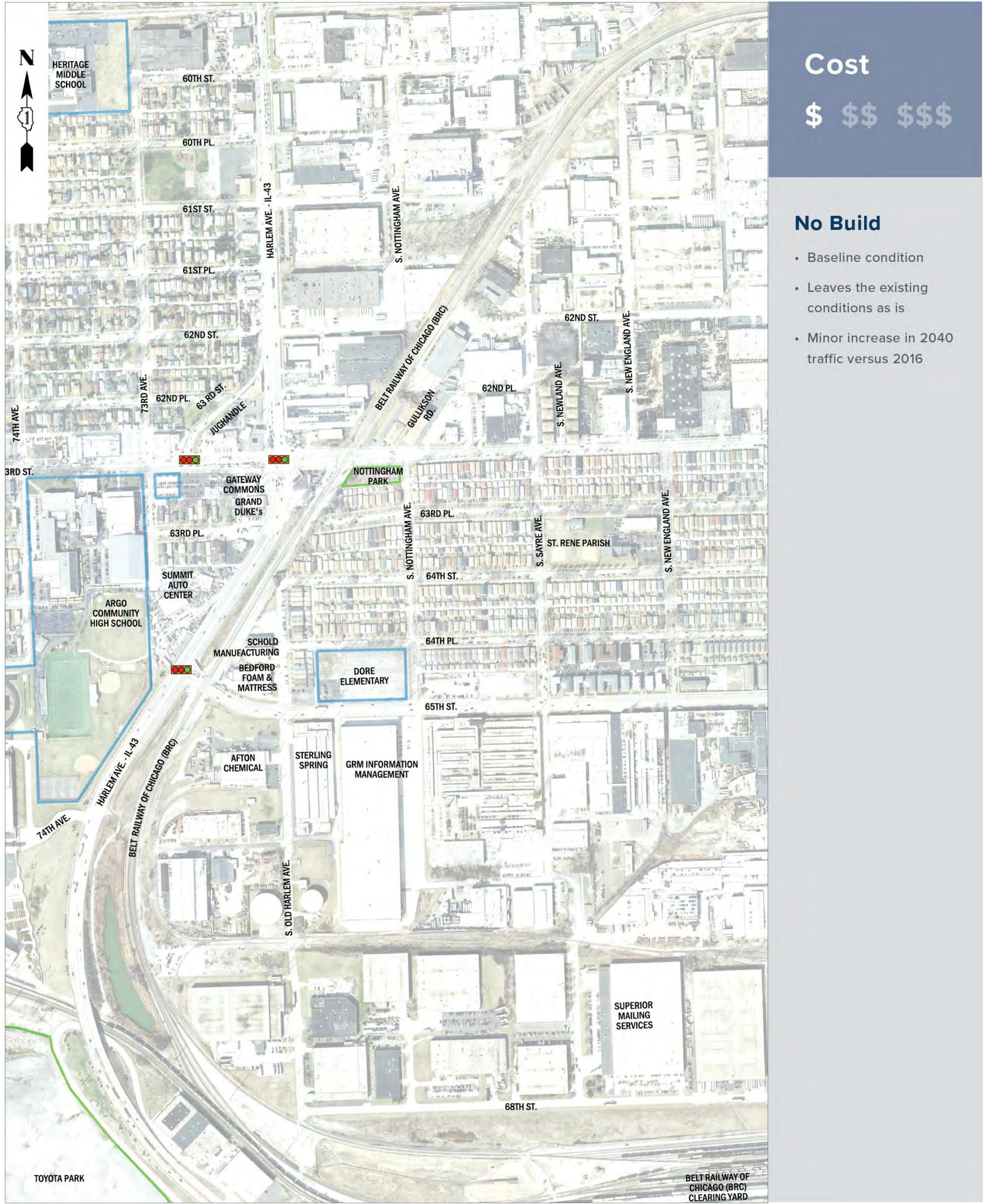


# **Baseline: No Build**











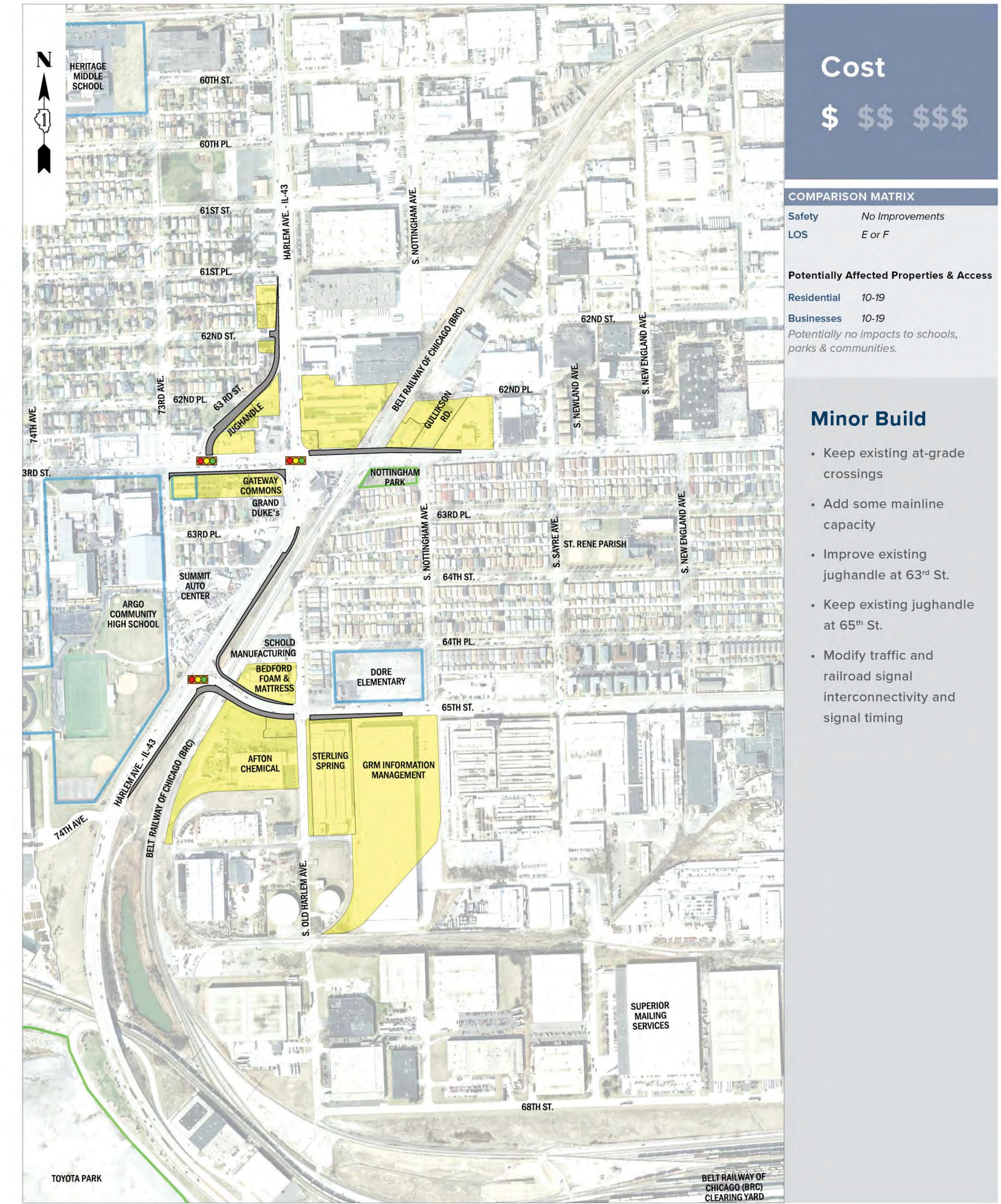
# Group 1: Minor Build



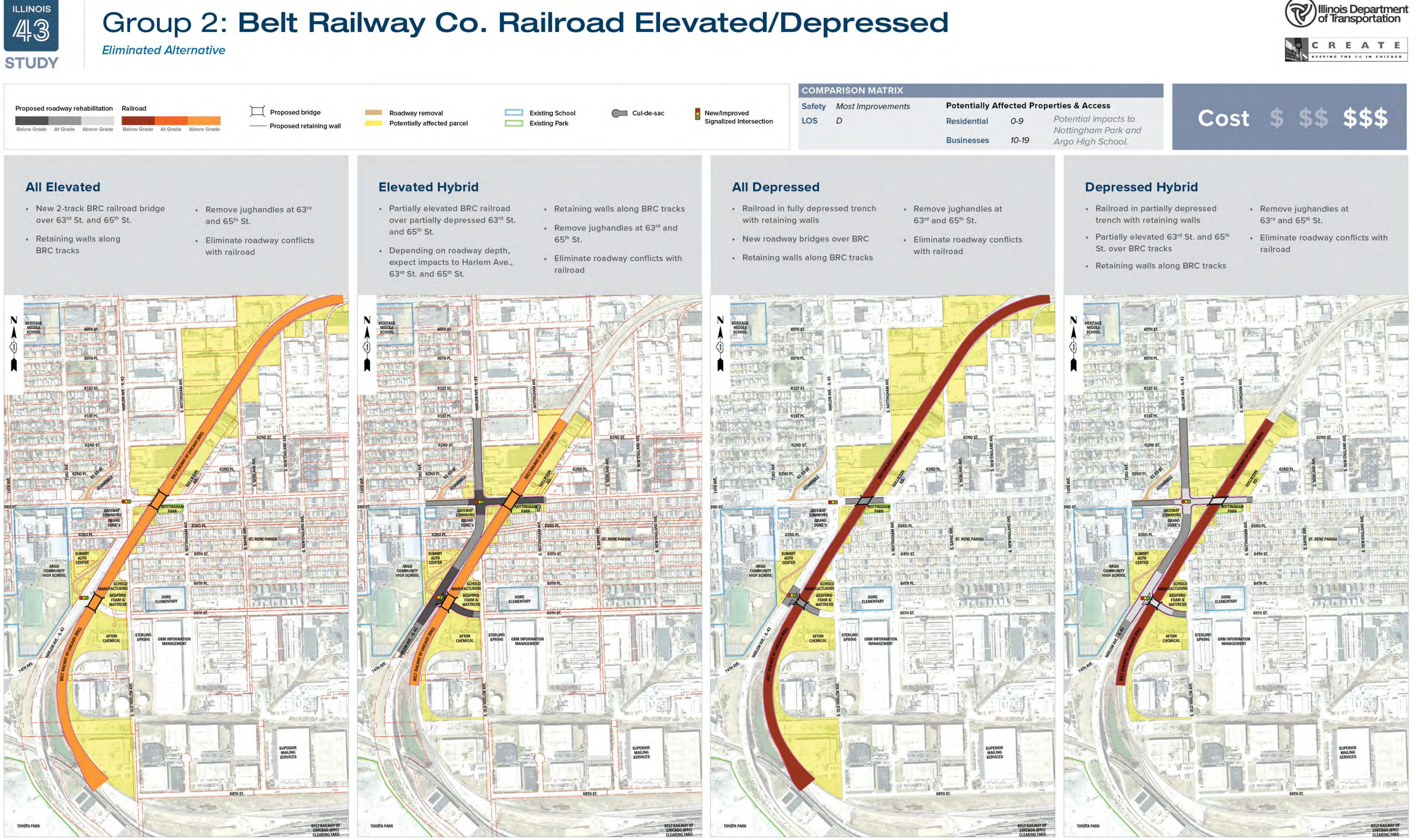
**Eliminated Alternative** 



Proposed roadway rehabilitation Railroad Proposed bridge Cul-de-sac **Existing School** New/Improved Roadway removal Signalized Intersection Potentially affected parcel **Existing Park** Proposed retaining wall Below Grade Above Grade Below Grade At Grade Above Grade At Grade







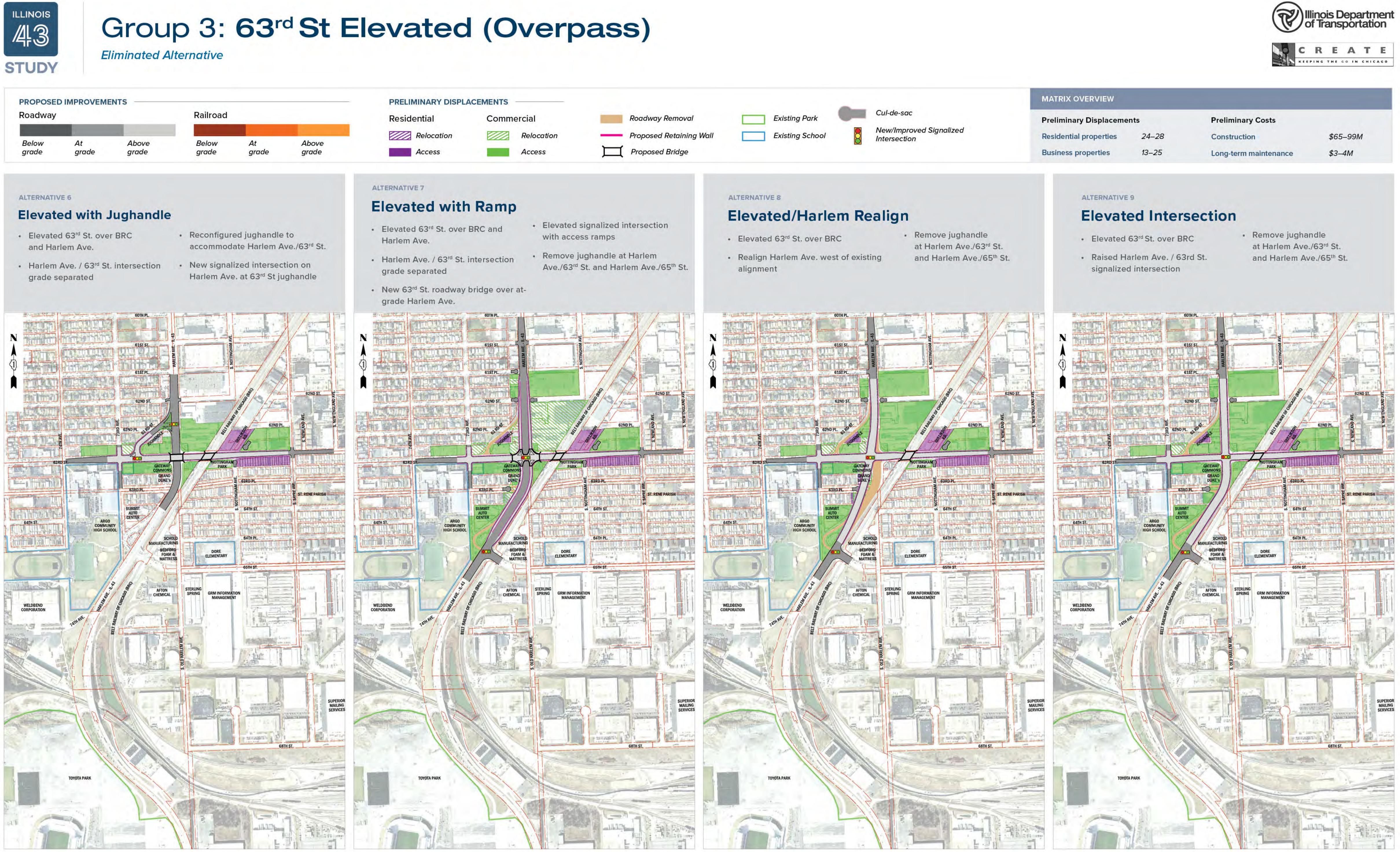
Potentially A	ffected Pro	perties
Residential	0-9	Pote Notti
Businesses	10-19	Argo





Roadway			Railroad		
Below	At	Above	Below	At	Above
grade	grade	grade	grade	grade	grade

- and Harlem Ave.
- grade separated





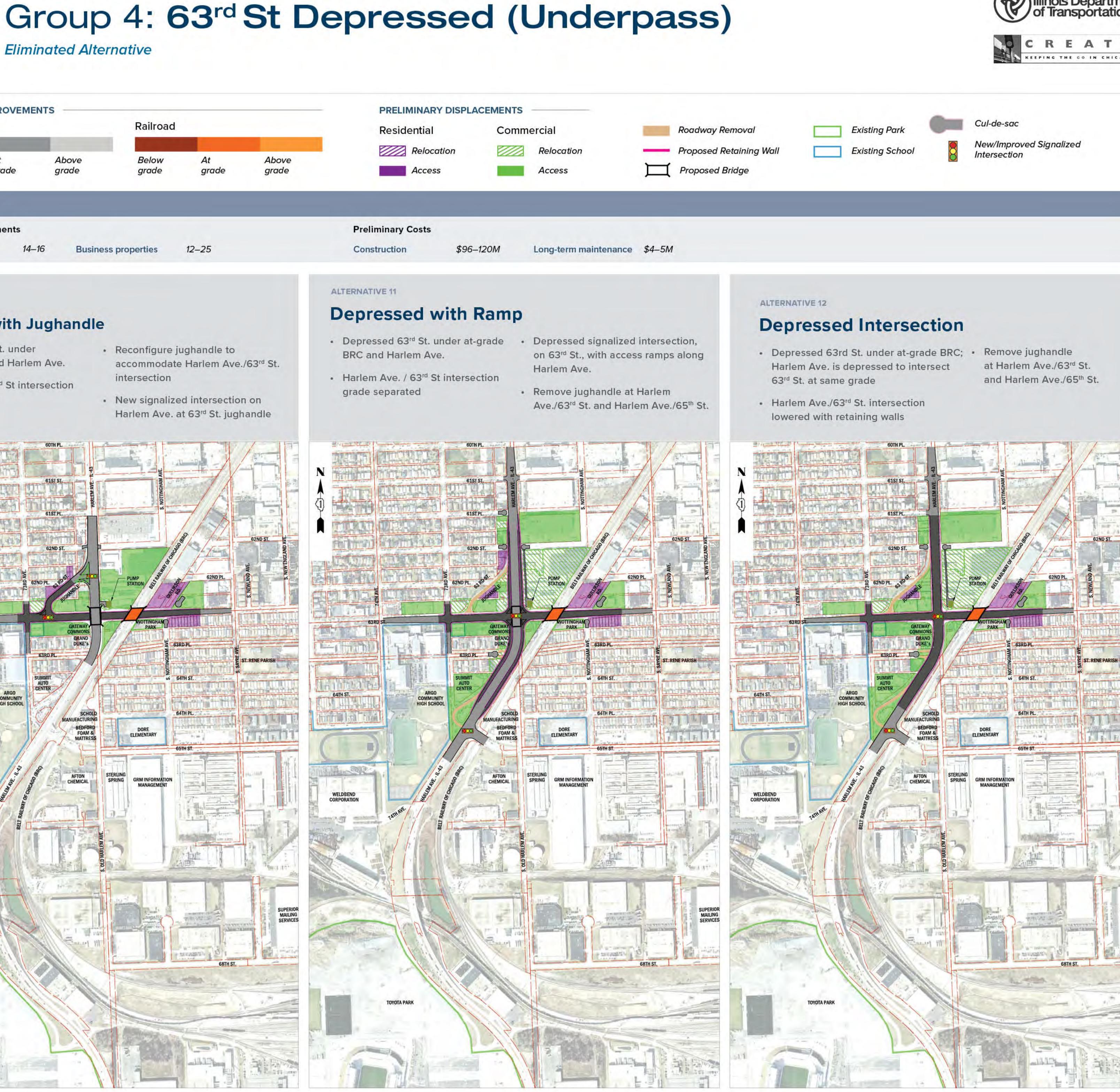






**Eliminated Alternative** 

PROPOSED Roadway	IMPROVEME	INTS	Railroad		
Below grade	At grade	Above grade	Below grade	At grade	Ab gro
MATRIX OVERVI	EW				
Preliminary Disp Residential prope		-16 Business	s properties	12-25	
			- Free Free Free Free Free Free Free Fre		
ALTERNATIVE 10					
Depressed 6			D		
at-grade BR	C and Harler	m Ave.	Reconfigure ju accommodate intersection		63 <sup>rd</sup> S
<ul> <li>Harlem Ave.</li> <li>grade separation</li> </ul>			New signalized		
			Harlem Ave. a	t 63 <sup>rd</sup> St. jugha	andle
		60TH PL.			475.
IN		61SI SI.	NOTTINGHAM	TA	F
		61ST PL	0		
		62ND ST.	PUMP STATION STATION	AEL	62ND ST.
	T3RD AVE	2ND PL 32 PD 51	PUMP STATION 13	62ND PL.	S. NEWLAND ANE
63RD ST.		GATEWAY	NOTTINGHAM		
		GRAND DUKE's 63RD PL	SUCCESSION AND TOTAL OF A DECEMBER OF A DECE		RENE PARIS
64TH ST.	ARGO	SUMMIT AUTO CENTER	5 641	TH ST.	
Malatta /	COMMUNITY HIGH SCHOOL	MANUFACTURING	DORE	H PL	
	F /	FOAM & MATTRESS	ELEMENTARY	H ST.	1 AL
	BELT RAILWAY OF CHICAGO	AFTON ST CHEMICAL S	ERLING PRING GRM INFORMATION MANAGEMENT		-
WELDBEND CORPORATION	TI RAILWAY OF	a la			
		S. OLD HARLEM AVE.	5	7 Line	
		S. OLD			H.
			AND AND A	THE ANY CONTRACT OF	and the second
		Emerard HT			
				68TH ST.	
TOYO	ITA PARK				·
		1 1 1 1 1 2	10	and the second s	15 3



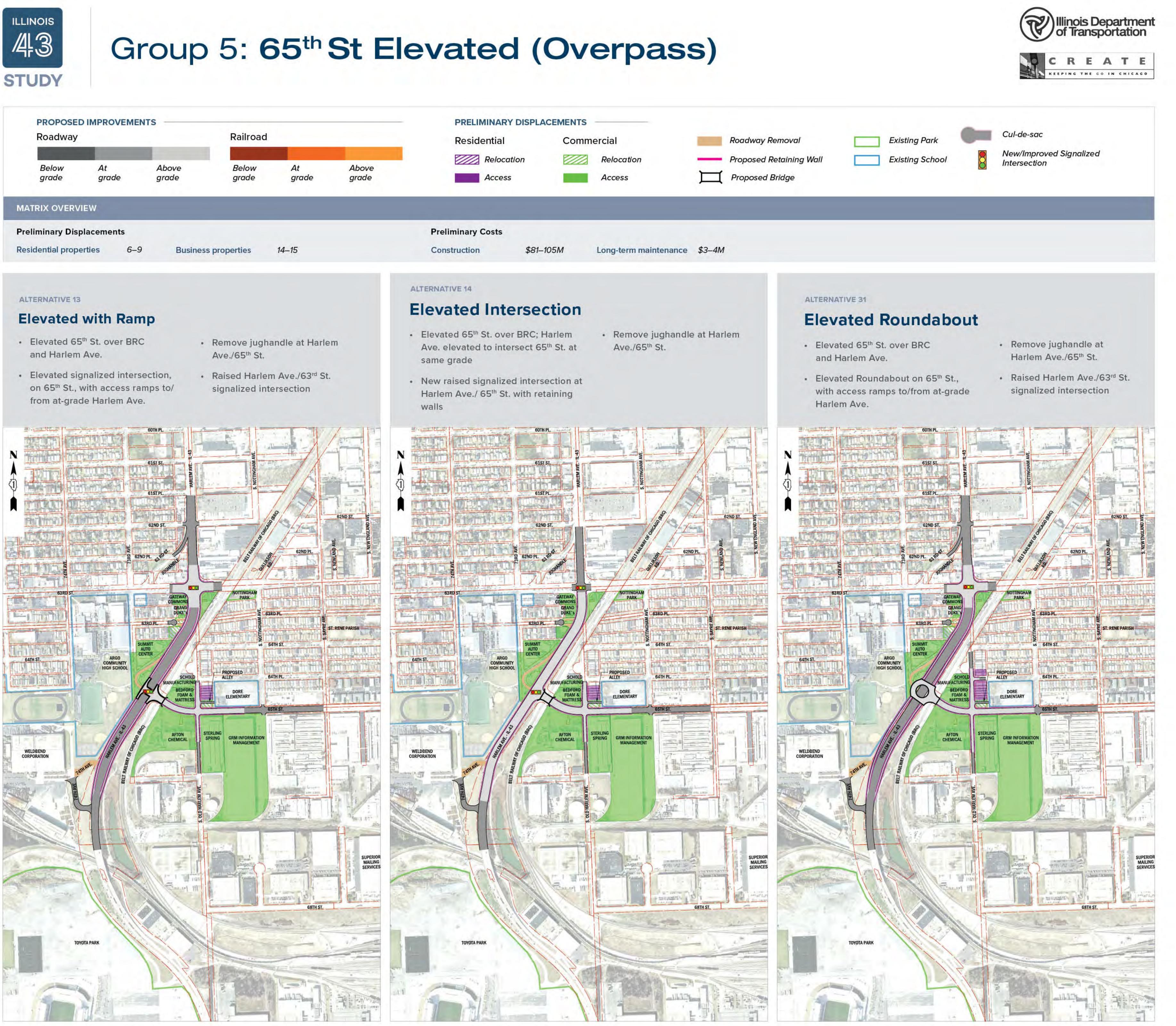
<b>ss</b> )		Illinois Depar of Transporta
		KEEPING THE GO IN CI
adway Removal	Existing Park	Cul-de-sac
oposed Retaining Wall	Existing School	New/Improved Signalized Intersection





	Roadway	-	_		Railroad		
	Below grade	At grade	,	Above grade	Below grade	At grade	Ab gra
MA	TRIX OVERV	IEW					
Pre	eliminary Disp	olacement	ts				
Res	sidential prope	erties	6–9	Busines	s properties	14–15	

- and Harlem Ave.
- on 65<sup>th</sup> St., with access ramps to/ from at-grade Harlem Ave.
- Ave./65th St.
- signalized intersection





# Group 6: 65<sup>th</sup> St Depressed (Underpass)







**ALTERNATIVE 15** 

**Depressed with Ramp** 

ALTERNATIVE 16

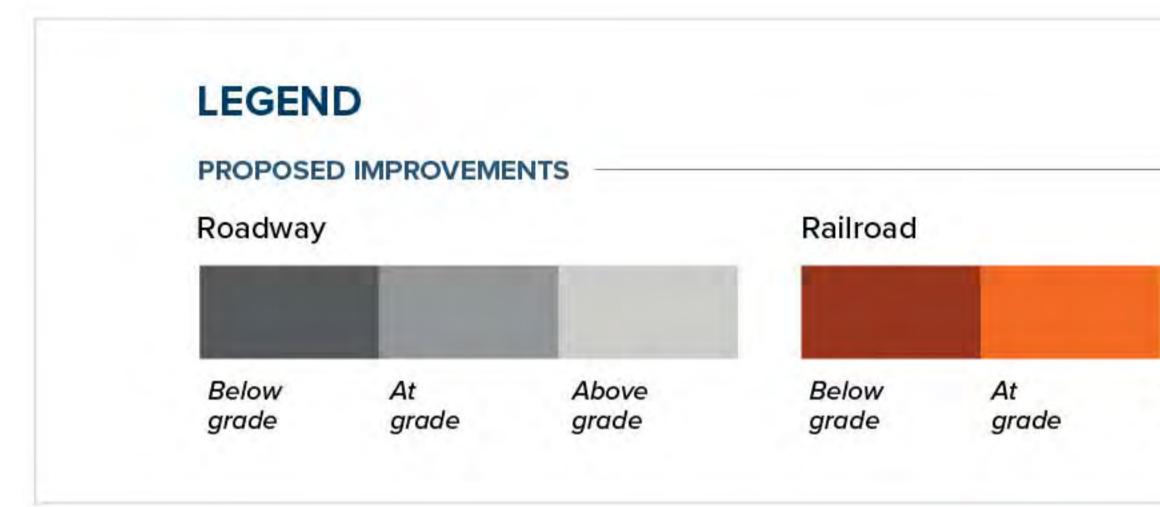
**Depressed Intersection** 

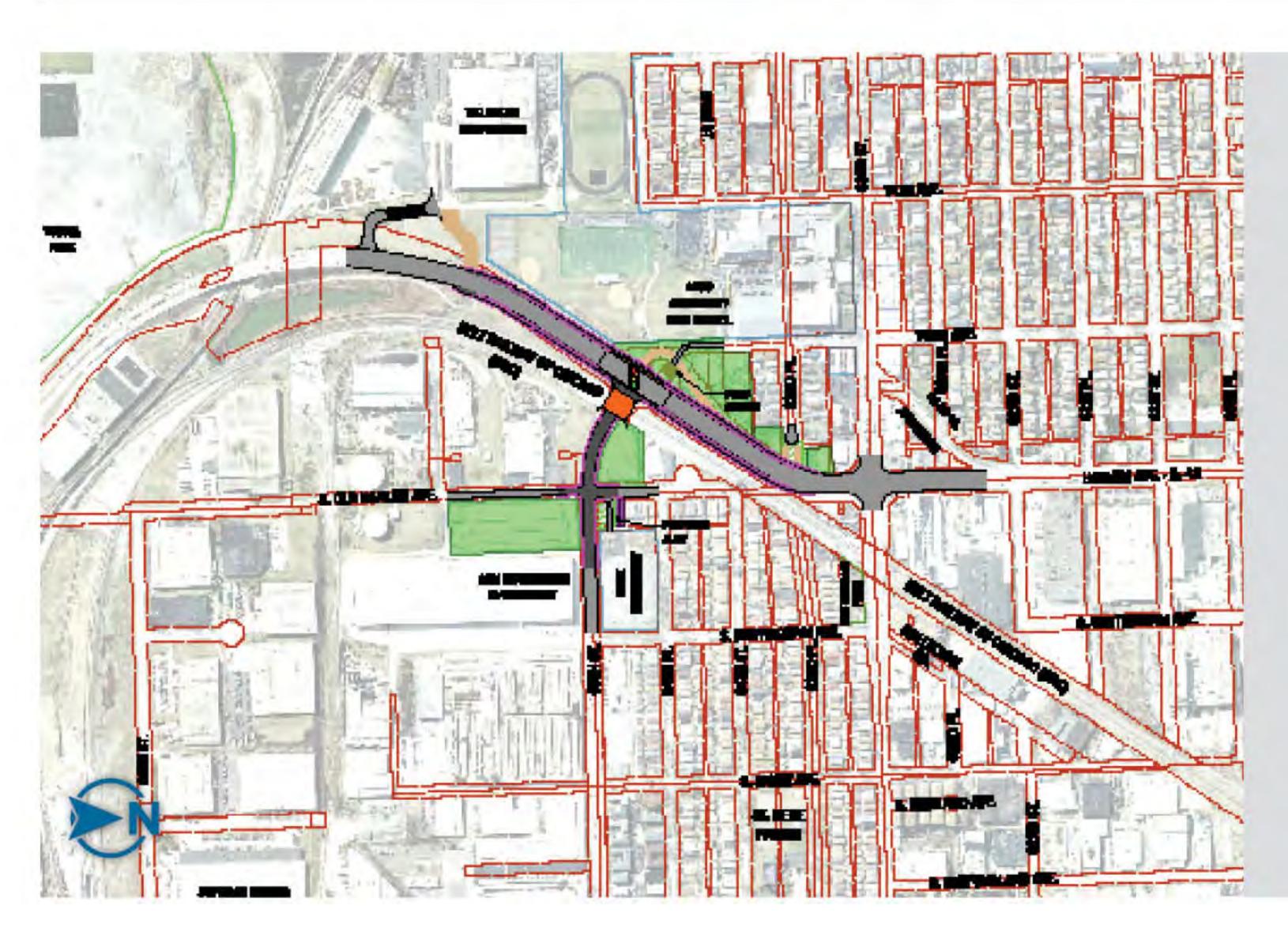
- Depressed 65<sup>th</sup> St. under BRC and Harlem Ave.
- New 2-track railroad bridge for grade separation
- New Harlem Ave. roadway bridge
- Depressed signalized intersection with ramps to/from Harlem Ave.
- Remove jughandle at Harlem Ave./65<sup>th</sup> St.
- Depressed 65<sup>th</sup> St. under BRC
- New 2-track railroad bridge for grade separation
- New lowered signalized intersection at Harlem Ave./65<sup>th</sup> St with retaining walls
- Remove jughandle at Harlem Ave./65<sup>th</sup> St.











# Group 6: 65<sup>th</sup> St. Depressed (Underpass)



### Residential



Access

Commercial

Access

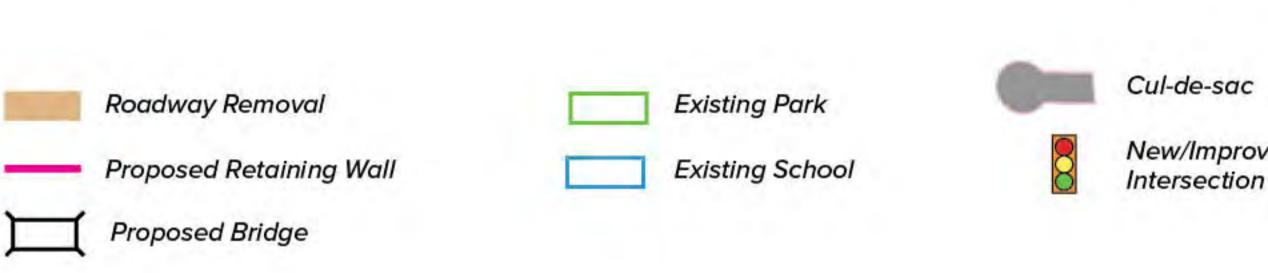
Relocation

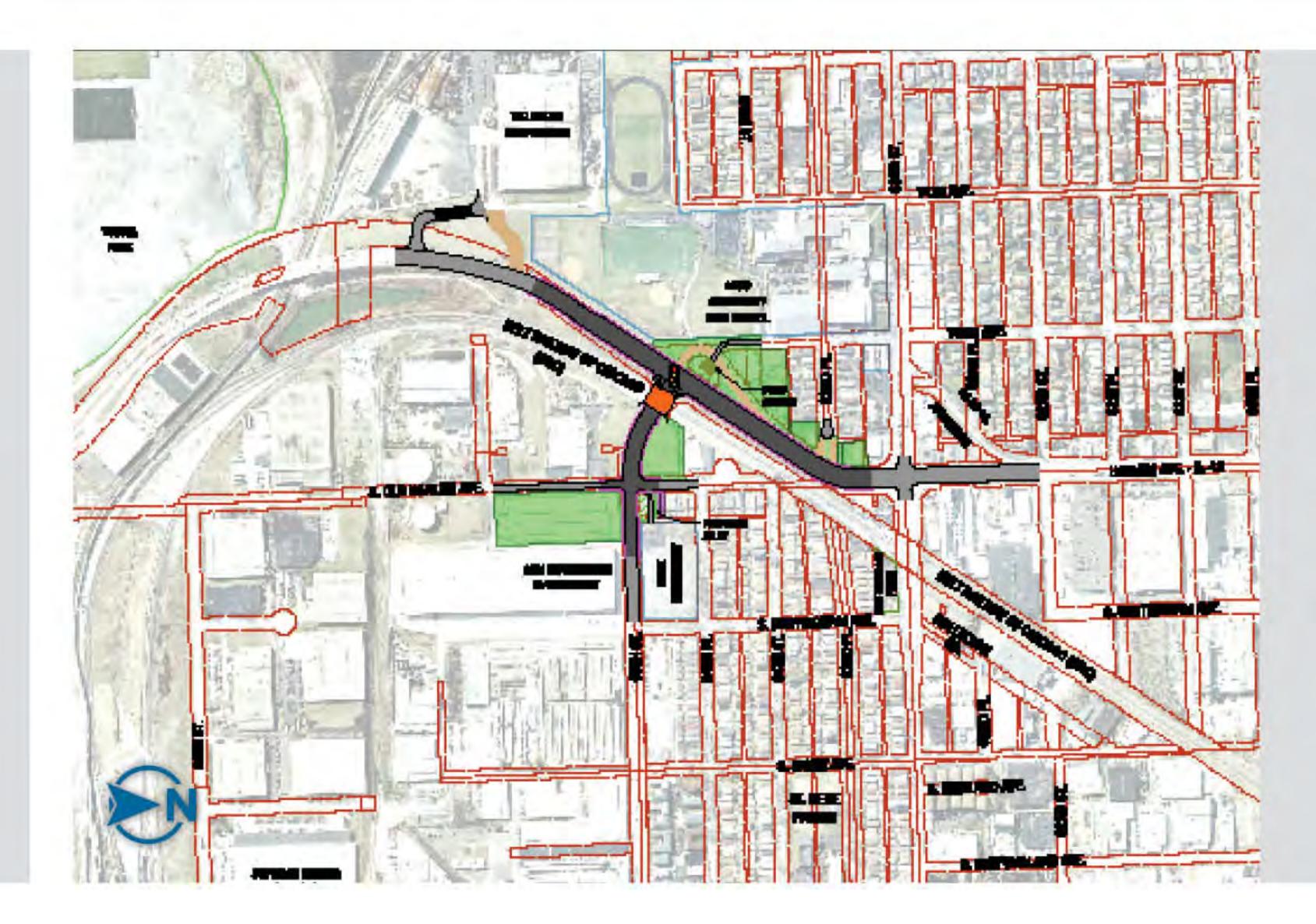
Above grade

### **ALTERNATIVE 15**

### Depressed with Ramp

- Depressed 65<sup>th</sup> St. under BRC and Harlem Ave.
- New 2-track railroad bridge for grade separation
- New Harlem Ave. roadway bridge
- Depressed signalized intersection with ramps to/from Harlem Ave.
- Remove jughandle at Harlem Ave./65th St.







### MATRIX OVERVIEW

Preliminary Displacemen	nts
Residential properties	2
Business properties	11
Preliminary Costs	
Construction	\$101–116M
Long-term maintenance	\$4–5M

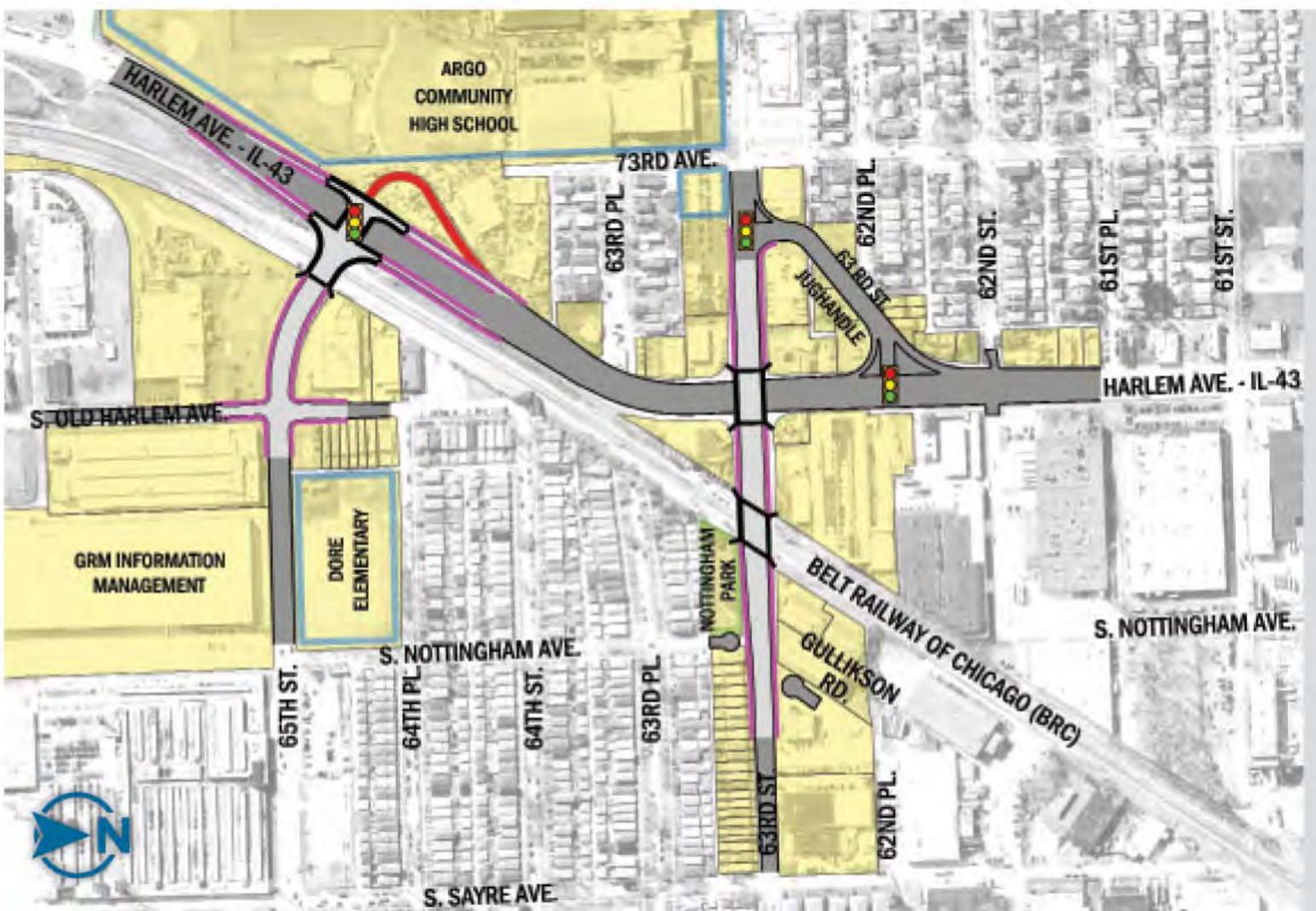
### **ALTERNATIVE 16**

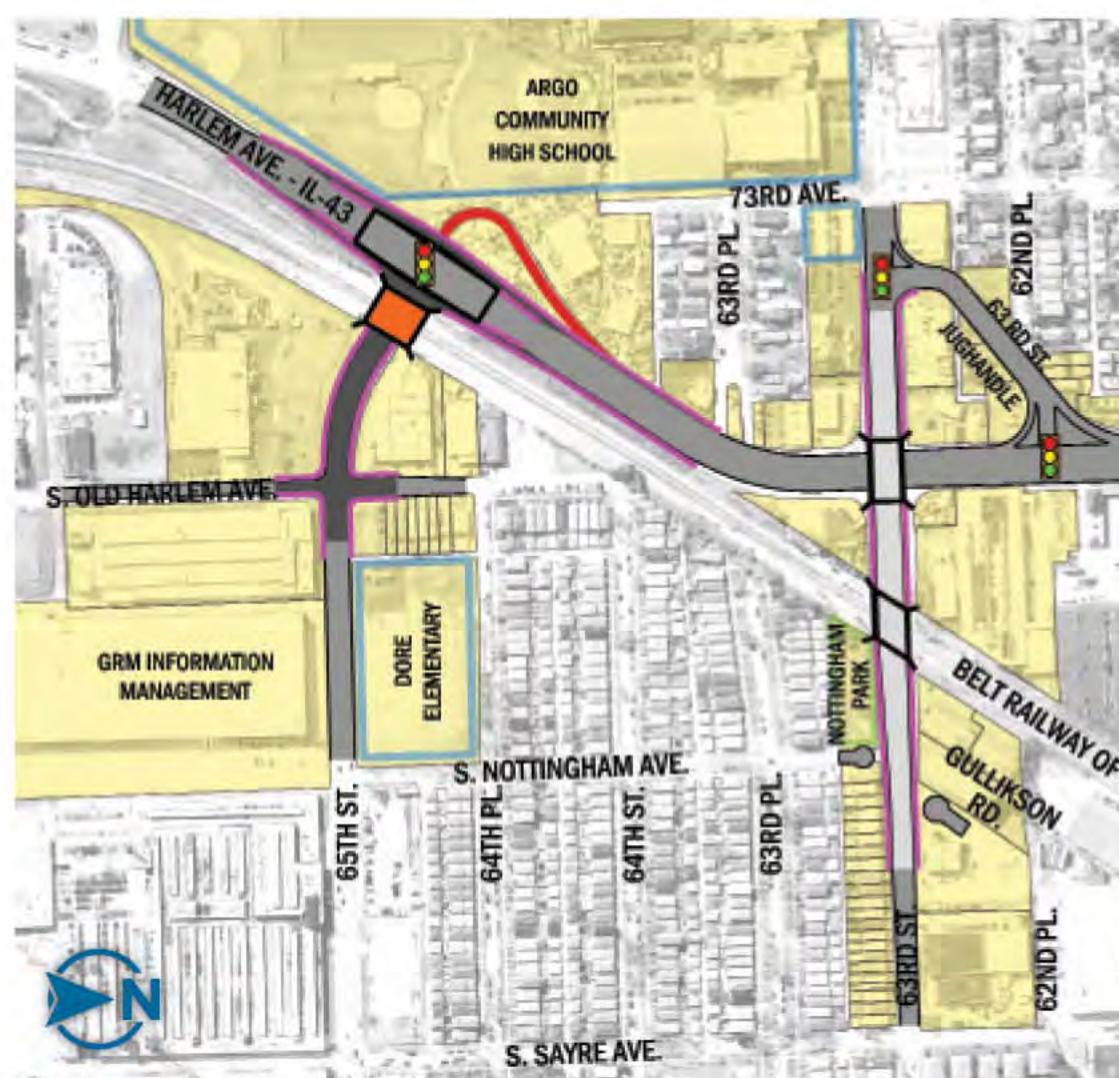
### **Depressed Intersection**

- Depressed 65<sup>th</sup> St. under BRC
- New 2-track railroad bridge for grade separation
- New lowered signalized intersection at Harlem Ave./65<sup>th</sup> St with retaining walls
- Remove jughandle at Harlem Ave./65<sup>th</sup> St.

New/Improved Signalized

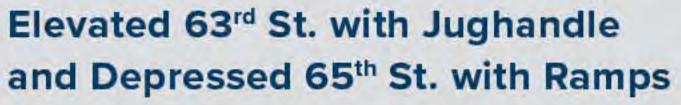
ILLINOIS ALS STUDY	Gr	ou	o 7:	63 <sup>r</sup> Ele
LEGEND				
PROPOSED IMPROVEMENTS	Roadwa	y		Railroad
	Below grade	At grade	Above grade	Below grade





# rd St. and 65<sup>th</sup> St.







\$ \$\$ \$\$\$

### Depressed 63<sup>rd</sup> St. with Jughandle and Depressed 65<sup>th</sup> St. with Ramps

Cost

- Depressed 63<sup>rd</sup> St. under at-grade BRC and Harlem Ave.
- Harlem Ave. / 63<sup>rd</sup> St. intersection grade separated
- Reconfigure jughandle to accommodate Harlem Ave./63rd St. intersection
- New signalized intersection on Harlem Ave. at 63<sup>rd</sup> St. jughandle
- Depressed 65<sup>th</sup> St. under BRC and Harlem Ave.
- Depressed signalized intersection on 65<sup>th</sup> St. with ramps to/from Harlem Ave. & 65<sup>th</sup> St.
- New 2-track railroad bridges for grade separations at 63rd St. and 65th St.
- New Harlem Ave. roadway bridges over 63rd St. and 65th St.
- New 2-track railroad bridges for grade separations at 63rd St. and 65th St.
- New Harlem Ave. roadway bridges over 63rd St. and 65th St.

### Depressed 63<sup>rd</sup> St. with Jughandle and Elevated 65<sup>th</sup> St. with Ramps

- Depressed 63<sup>rd</sup> St. under at-grade BRC and Harlem Ave.
- Harlem Ave. / 63rd St. intersection grade separated
- New 2-track railroad bridge for grade separation at 63rd St.
- New Harlem Ave. roadway bridge over 63rd St.
- Reconfigure jughandle to accommodate Harlem Ave./63rd St. intersection
- New signalized intersection on Harlem Ave. at 63<sup>rd</sup> St. jughandle
- Elevated 65<sup>th</sup> St. over BRC and Harlem Ave.
- Elevated signalized intersection on 65<sup>th</sup> St. with ramps to/from at-grade Harlem Ave.
- Remove jughandle at Harlem Ave. & 65<sup>th</sup> St.