



# Village of Maywood I-290 Advisory Working Group Meeting #3

April 21, 2016

# Agenda

- Introductions
- Summary of alternatives analysis findings
- Overall project benefits
- Next Steps



Illinois Department of Transportation



# *Alternatives Analysis Findings*



😑 🖨 🖨 🖨 🚍

රූන

# Keeping <u>all ramps</u> open is a viable solution

Pending final Federal Highway Administration Approval

- 2 top performing alternatives 1 & 6
  - Both alternatives retain all existing ramps
  - Alternative 6 is variation of Alternative 1
    - Alt 6 best performing overall
    - Alt 6 without frontage road connections at 1<sup>st</sup> Avenue
      - Improves traffic flow along 1<sup>st</sup> Avenue
      - Frontage road 10% local trips / 90% non-local trips



## **Technical Analysis Overview**

Safety, traffic, & travel related factors





linois Departmen of Transportation

#### **Technical Analysis Overview** Safety, traffic, & travel related factors - Local & I-290 factors 50 45.0 42.7 42.5 45 40 35 30 25 20 15 10 5 0 Alt. Alt. Alt. 1 4 6

- Alternatives 1 & 4 have similar overall performance
- Alternatives 1 & 6 address community context



# Alternative 1 & 6 – *All ramps open*



Illinois Department of Transportation

## Local Access Travel Patterns – INRIX Data

Local Maywood Trips – Ramp Access Distribution (to/from I-290)					
Via 25 <sup>th</sup> Avenue	Via 17 <sup>th</sup> Avenue	Via 9 <sup>th</sup> Avenue	Via 1 <sup>st</sup> Avenue		
8%	40%	16%	36%		



9

Millinois Department of Transportation



#### Alternatives 1 & 6 – Benefits Comparison

# Overall Improvements compared to no-build

		Alternative 1		Alternative 6	
Travel Time Savings		<b>45</b> minutes saved		<b>46</b> minutes saved	
Local Arterial Traffic		-5% overall reduction		-5% overall reduction	
a ct	Level of Service	С		B	
1 <sup>st</sup> Avenue Traffic	Vehicle stacking	<b>230</b> ft. southbound	<b>752</b> ft. northbound	217 ft. southbound	<b>525</b> ft. northbound
	Delay	63 redu	<b>3%</b> uction	<b>74</b> redu	.% ction



Illinois Department of Transportation





#### 1<sup>st</sup> Ave. Operations PM Peak Period

- Alt. 1 & 6 improve 1<sup>st</sup> Ave. traffic
  - Keeping existing ramps open eases traffic burden at 1<sup>st</sup> Ave.
  - Alt. 6 has lowest delay & best Level of Service:
    - Fewer signal phases required
    - Improved efficiency at 1<sup>st</sup> Ave.
    - 10% of trips using frontage roads to access
      expressway at 1<sup>st</sup> Ave. are local



#### Alternatives 1 & 6 – Benefits Comparison

# Overall I-290 Improvements compared to no-build

	Alternative 1	Alternative 6
Safety Improvement (crash rate reduction)	9%	<b>9%</b>
Mainline Travel Speed Improvement	123%	133%



ois Departmen Fransportation

#### Mainline Operations – 9<sup>th</sup> to 1<sup>st</sup> Avenue PM Peak Period



- Mainline travel speeds similar for all alternatives
- Alt 6 longer ramp spacing results in higher average speeds

Department nsportation

## Alternatives Analysis – Next Steps

- Present at May 4<sup>th</sup> Town Hall Meeting
- Stakeholder Review & Comments by May 20<sup>th</sup>
- Further discussion of options 1 & 6 June 23<sup>rd</sup> AWG meeting



ois Departmer ransportation



# **Other Project Benefits**



😑 🖨 🚖 🖨 🚍 🤅

ର୍ଦ୍ଧର







- Both storm water & waste water are collected in the same pipe
- The system is undersized



ois Departmer Transportation

# **Existing Drainage Conditions**

# Village Storm Water Overflow Area

- When the Village system is overwhelmed, water overflows to the expressway
- The expressway drainage system is also undersized



ois Departmen Transportation



# **Proposed Drainage Improvements**

# Frontage Road & Local Drainage

 The proposed I-290 drainage system offers an opportunity for improved Village drainage

Illinois Departmen of Transportation



# **Proposed Drainage Improvements**

# Improved Drainage Area

- Potential for reducing flooding in 141 acres of Village
- Secondary benefit for other areas
- Requires local sewer connections
- Additional coordination with Broadview, MWRD



nois Departmer Transportation

## **Proposed Improvements**

# Bataan Dr. & Harrison St. Reconstruction

- Full reconstruction of Bataan Drive & Harrison Street
- Additional greenspace in some areas



## **Proposed Improvements**

## **Cross Road Bridge Improvements**



 17<sup>th</sup> Ave, 9<sup>th</sup> Ave, and 5<sup>th</sup> Ave bridges will be replaced and include wider sidewalks

ois Departmer Transportation



## **Proposed Improvements**

- No existing 1<sup>st</sup> Avenue crosswalk @ Prairie Path
- Protected crosswalk added @ Prairie Path
- Modernized signals with pedestrian countdown timers
- Completes connection to the DesPlaines River bridge crossing to CTA Blue Line Terminal





# NEXT STEPS



- Town Hall Meeting May 4<sup>th</sup>
  - Proviso Mathematics and Science Academy
- Stakeholder comments on Alternatives Analysis by May 20<sup>th</sup>
- Next AWG meeting:

Thursday, June 23, 2016 6:00 PM – 8:00 PM



# **Question & Answer**



😑 🖶 🚖 🌰 🖨 🌔

ର୍ଦ୍ଧତ