



# **NORTHERN BLVD SAFETY, ACCESSIBILITY, AND LIVABILITY IMPROVEMENTS**

**- BETWEEN PRINCE ST AND UNION ST -**

Traffic Engineering & Planning

September 2018



# **OVERVIEW**

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- **Previous Projects**
- **2018 Northern Blvd Street Improvement Project (SIP)**
- **2018 SIP Implementation Schedule**

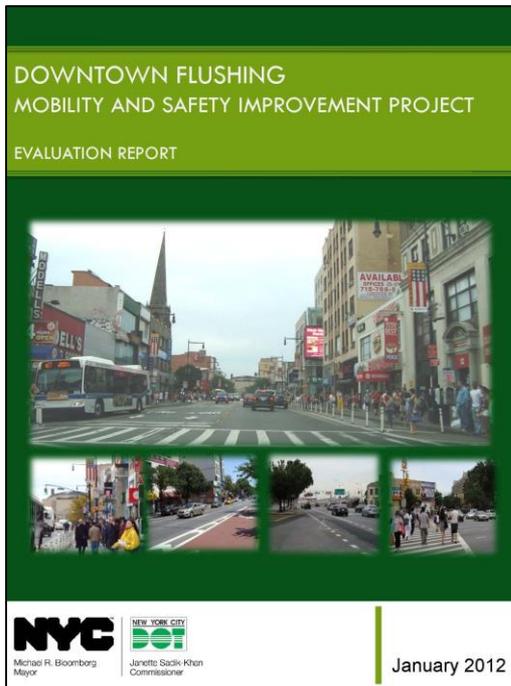
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## PREVIOUS PROJECTS

# 1

# DOWNTOWN FLUSHING MOBILITY AND SAFETY IMPROVEMENT PROJECT (2011)

## Original Report & Before and After 3yr-Crash Comparison



	Before (3-Year Avg)	After (3-Year Avg)	Change (Percent)
Crashes with Injuries	31.3	20.1	-36%
Total Injuries	34.7	26.4	-24%
Pedestrian Injuries	13.7	9.8	-28%
Bicycle Injuries	2.3	0.3	-87%
Vehicle Occupant Injuries	18.7	16.3	-13%

- Along Northern Blvd between Prince St and Union St

# MAIN ST SIDEWALK WIDENING CAPITAL PROGRAM (2017)



# DOWNTOWN FLUSHING MOBILITY AND SAFETY IMPROVEMENT PROJECT

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- The Downtown Flushing improvement project induced the Main St sidewalk widening capital program. Both projects substantially improved mobility and safety in Downtown Flushing.
- 2018 Northern Blvd SIP plans to further enhance safety, accessibility and livability for the community in the downtown Flushing with concrete works, painted markings and pedestrian signal installations.

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2018 NORTHERN BLVD  
STREET IMPROVEMENT PROJECT (SIP)

2

# PROJECT PROCESS

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Preliminary Site  
Visit with CB7  
and CM Koo  
Office

2017-2018 SIP  
Development

Design Plan  
& Internal/  
External  
Coordination

2018 SIP  
Implementation  
(Summer- fall  
2018)

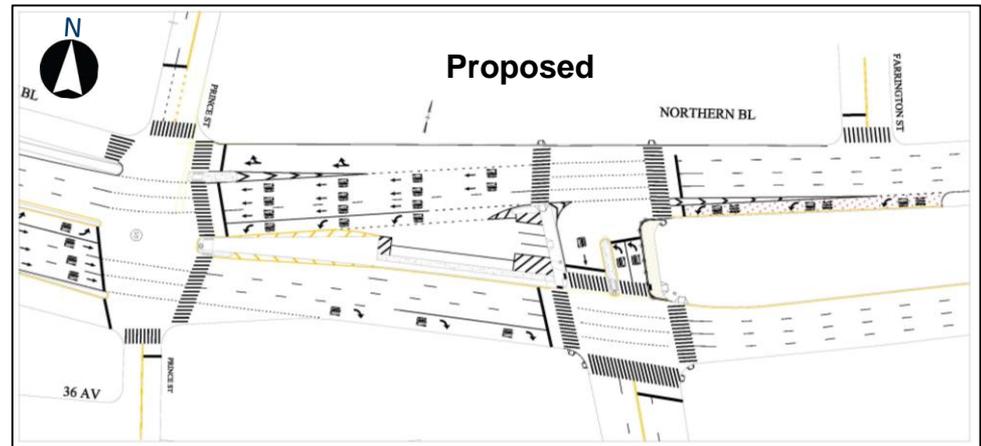
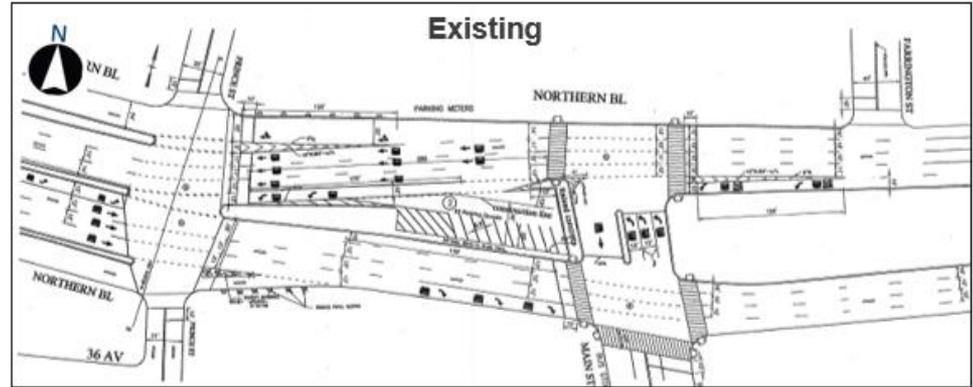
Future (2019 &  
2020 SIPs)

Capital Project

# 2018 NORTHERN BLVD SIP

## Improvements

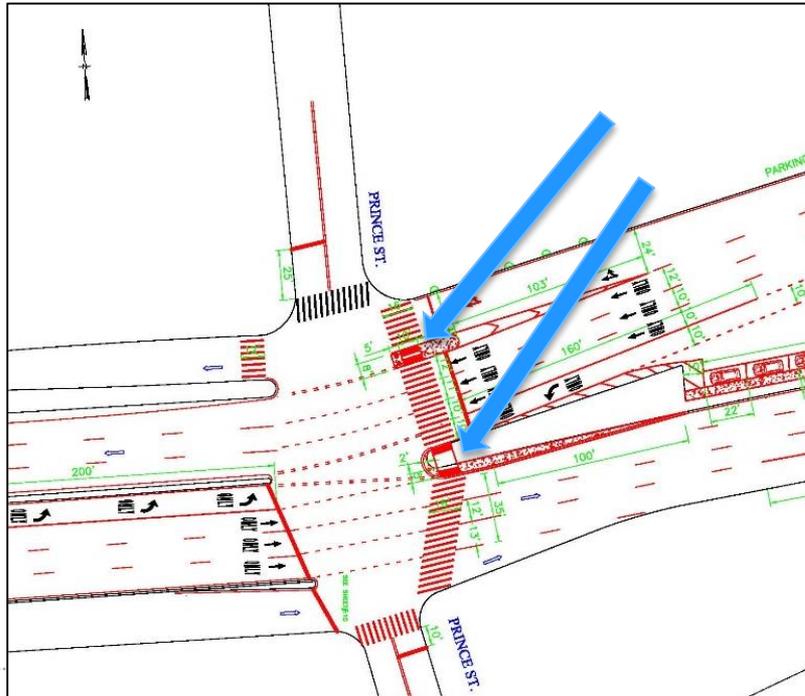
- Convert north and east crosswalks to high visibility at Prince St.
- Provide new west crosswalk and pedestrian signal from /to bridge at Prince St.
- Provide a concrete refuge island at east crosswalk at Prince St.
- Provide new crosswalk and pedestrian signal at Main St.
- Widen existing median and enhance pedestrian safety at Prince and Union Sts.
- Modify signal timing at Main Street to reduce/eliminate bus queues.
- Provide Split LPI(Leading Pedestrian Interval) signal phase for crossing pedestrian at Union St. LPI typically gives pedestrians a 3–7 second head start, and enhance the visibility and right-of-way over turning vehicles of pedestrians.
- Relocate a bus stop at southeast corner from Northern Blvd to Union St.



# PROPOSED IMPROVEMENTS (1)

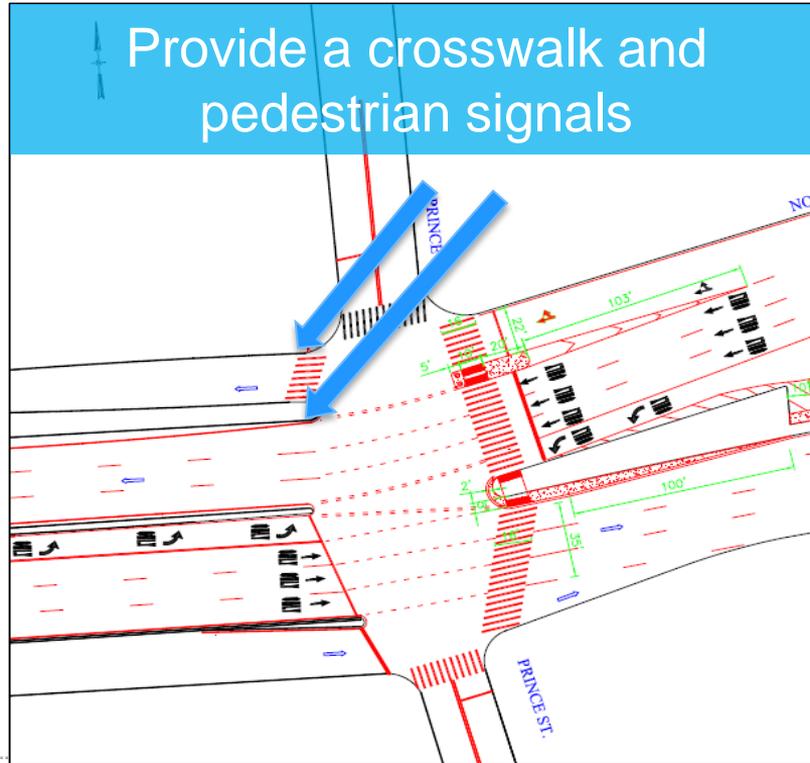
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Provide concrete refuge island and widen center median



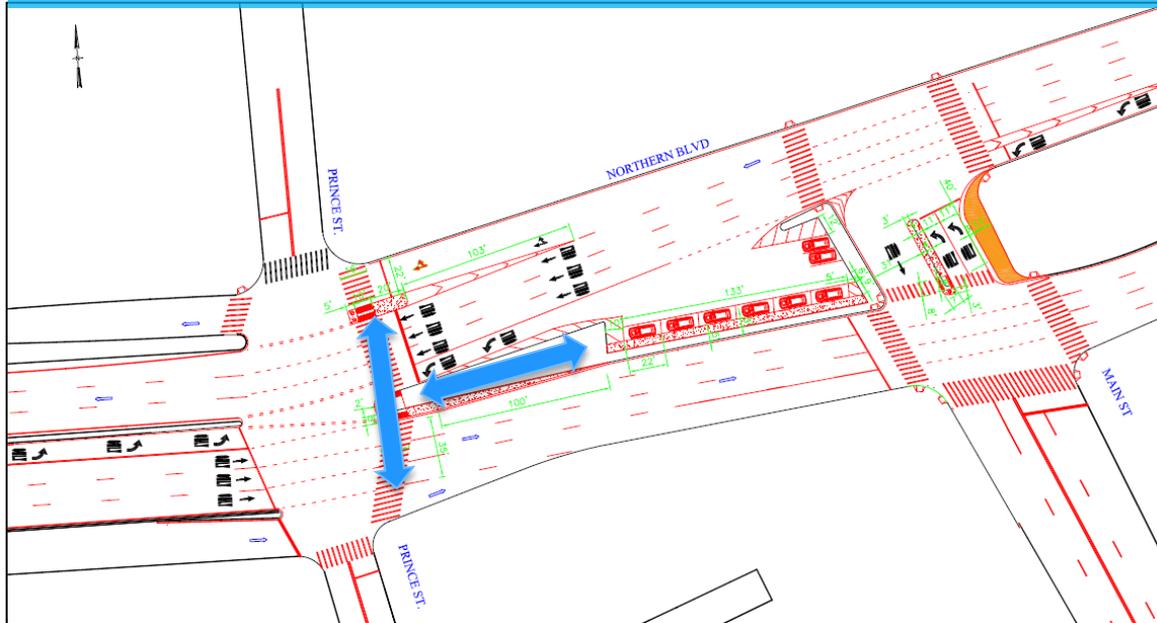
## PROPOSED IMPROVEMENTS (2)

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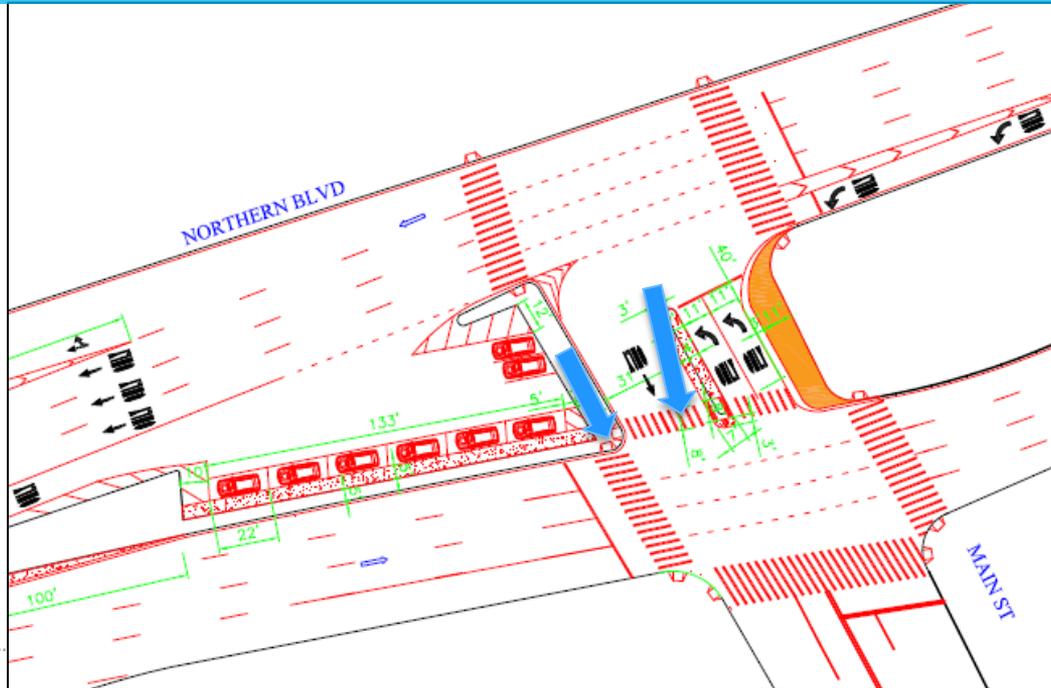
## PROPOSED IMPROVEMENTS (3)

Multiple pedestrian routes utilizing median walkway



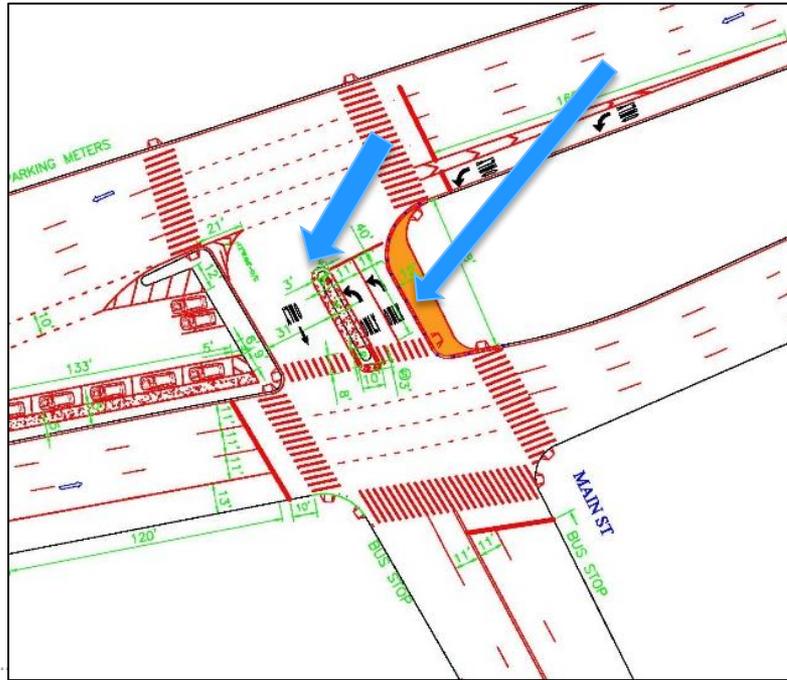
## PROPOSED IMPROVEMENTS (4)

Install crosswalk and pedestrian signal for conflict free pedestrian crossings



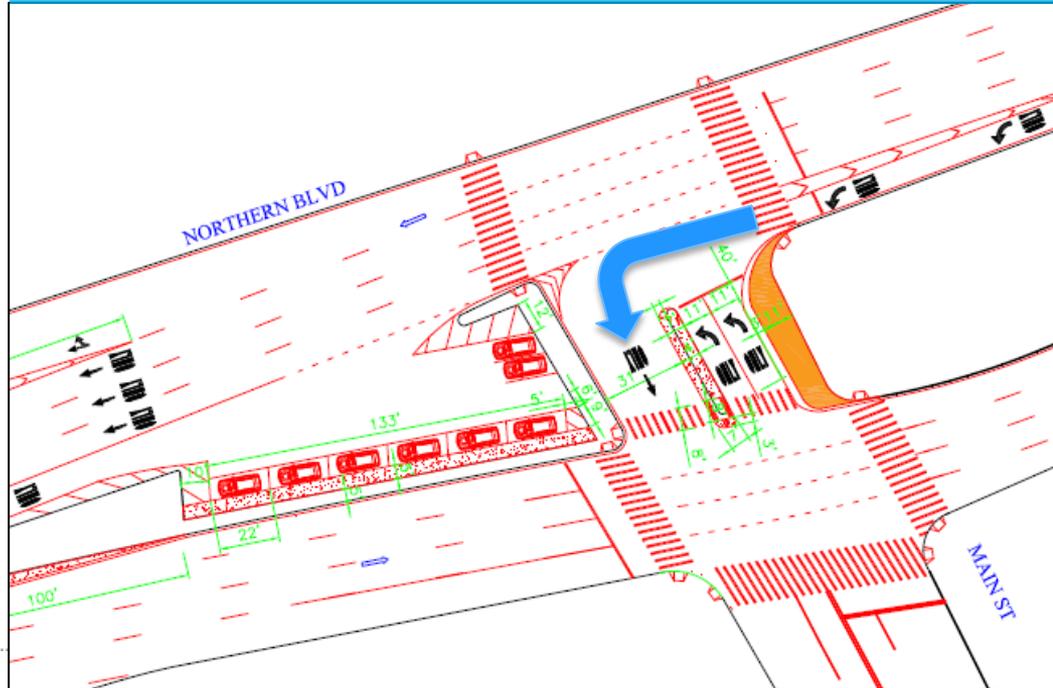
## PROPOSED IMPROVEMENTS (5)

Provide temporary curb extension for pedestrian crossings



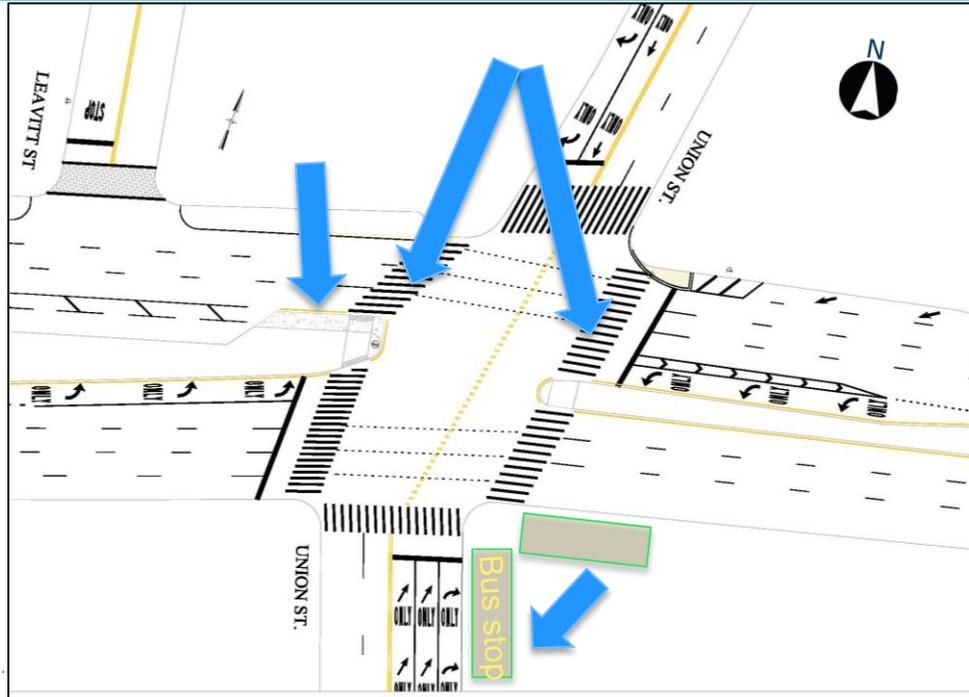
## PROPOSED IMPROVEMENTS (6)

Redesign center island and increase signal timing for WB Northern Blvd buses



## PROPOSED IMPROVEMENTS (7)

Widen a west median, provide a split LPI phase and relocate a bus stop (Q13 & Q28)



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## 2018 SIP IMPLEMENTATION SCHEDULE

# 3

# **SCHEDULE**

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- i. Transportation analysis/Data Collection/Engineering Review-  
Winter/Spring 2018**
- ii. Stakeholder Briefing - Summer 2018**
- iii. Implementation – Summer through fall 2018**
- iv. Potential Capital Plan - TBD**

# THANK YOU!

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Questions?



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