



Department of
Transportation

Route 9A Mobility & Safety Enhancement Study

June 15, 2026

Concept Screening Process

Agenda

1. Introductions
2. Study Overview
3. Concept Development Process
4. Next Steps



Study Overview

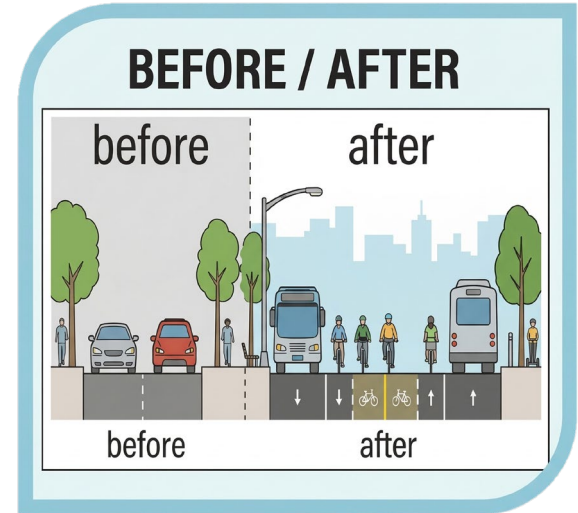
- **Study Limits:** Battery Pl to 59th St
- **Purpose:**
The purpose of the Route 9A Mobility and Safety Enhancements Study is to identify and evaluate multimodal transportation improvements that:
 - Enhance safety
 - Reduce modal conflicts
 - Improve overall mobility along the Route 9A
- **Timeline:**
Began Winter of 2025 and continues until Spring of 2027



Goals developed during Phase 1

Through public feedback collected at the Transportation Partnering Committee Meeting and the Public Meeting during Phase 1, the following goals were developed

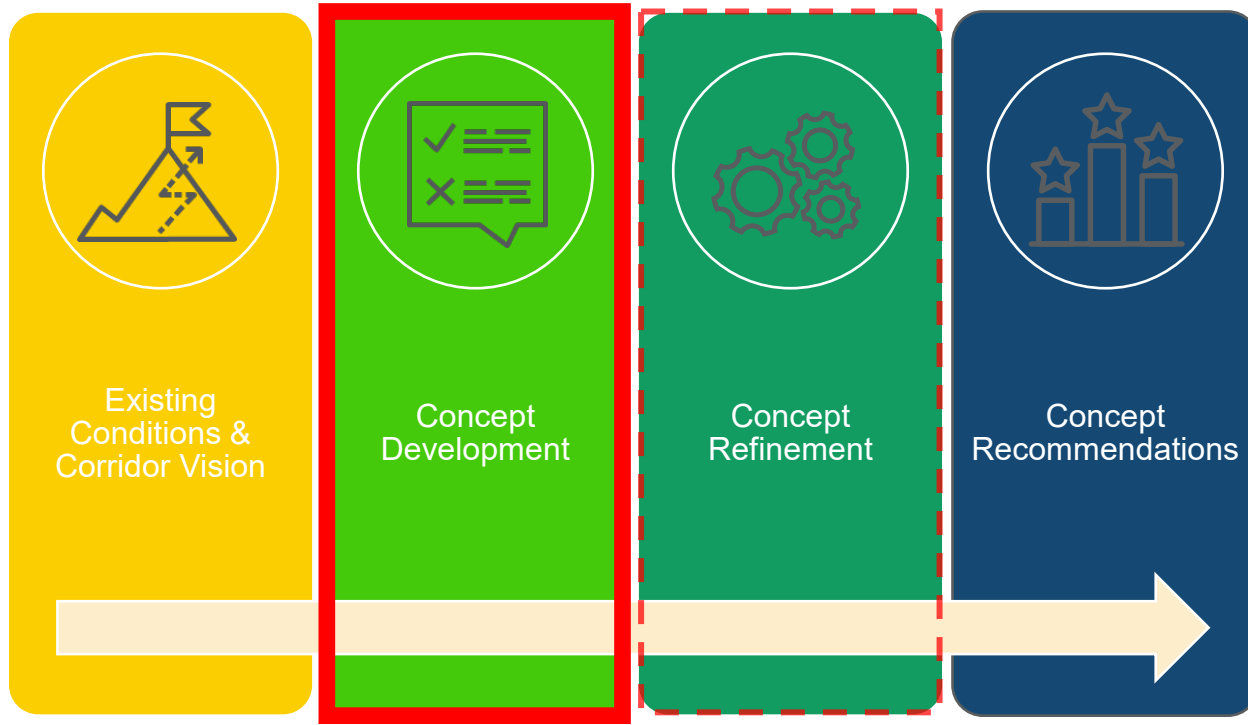
1. Foster a safer and more inclusive corridor by balancing the needs of vehicles, pedestrians, cyclists, micro-mobility, and transit users.
2. Promote better access and connectivity to the waterfront, parks, neighborhoods, and public transportation.
3. Create a corridor that reflects current mobility trends, including micro-mobility and active transportation.
4. Provide a high-quality user experience that is intuitive, legible, and enjoyable for all users—residents, commuters, and visitors alike.



Objectives developed during Phase 1

	Objectives
1	Enhance safety for all users by incorporating design treatments that help reduce crashes
2	Reallocate and optimize space for multimodal use
3	Enhance crossings and intersection safety with targeted pedestrian improvements
4	Support modal balance and increase user compliance
5	Create a connected and navigable corridor via improved wayfinding and signage
6	Promote a livable boulevard character through design modifications that support all roadway users and provide improved connectivity between adjacent neighborhoods and the Hudson River Park
7	Plan for future growth, technology improvements, and resilience
8	Improve transit service

Study Timeline & Concept Development Steps



Phase Two – Cross Section Development

Key Findings Summary

65

Total cross-sections
developed by participants

95+

People attended & shared
input at TPC & Public Meetings

46

Intersection safety treatment
evaluations collected

Most Frequently Prioritized Design Elements

Enhance Pedestrian Walking
& Running Paths

Increase Green Space &
Corridor Beautification

Space Reallocation – Parking & Lanes

Expand Transit (Bus) Priority Space

Dedicated Micro-Mobility Facilities

Bike Path Expansion

The Screening Process: 4 Steps

How we move from 65 raw cross-sections to 3 refined draft concepts

1



Step 1

Block Exercise

Identify all elements/strategies from 65 cross-sections along the 5-mile corridor

2



Step 2

Consolidate

Consolidate redundancy of elements/strategies across all cross sections

3



Step 3

Develop criteria for evaluation

Map elements/strategies against goals

4

Step 4

Create Draft Concepts

Evaluate each concept against the goals and objectives

RESULT: 3 Draft Concepts ready for evaluation against project goals and community feedback

STEP 1

Block Exercise

Catalog all possible strategies/elements across the corridor

What happens in this step:

- Conduct a 'block exercise' reviewing all cross-sections along the corridor
- Identify every unique elements/strategies present or proposed
- Catalog elements/strategies without filtering — this is a comprehensive inventory

Output: Complete inventory of all corridor strategies/elements

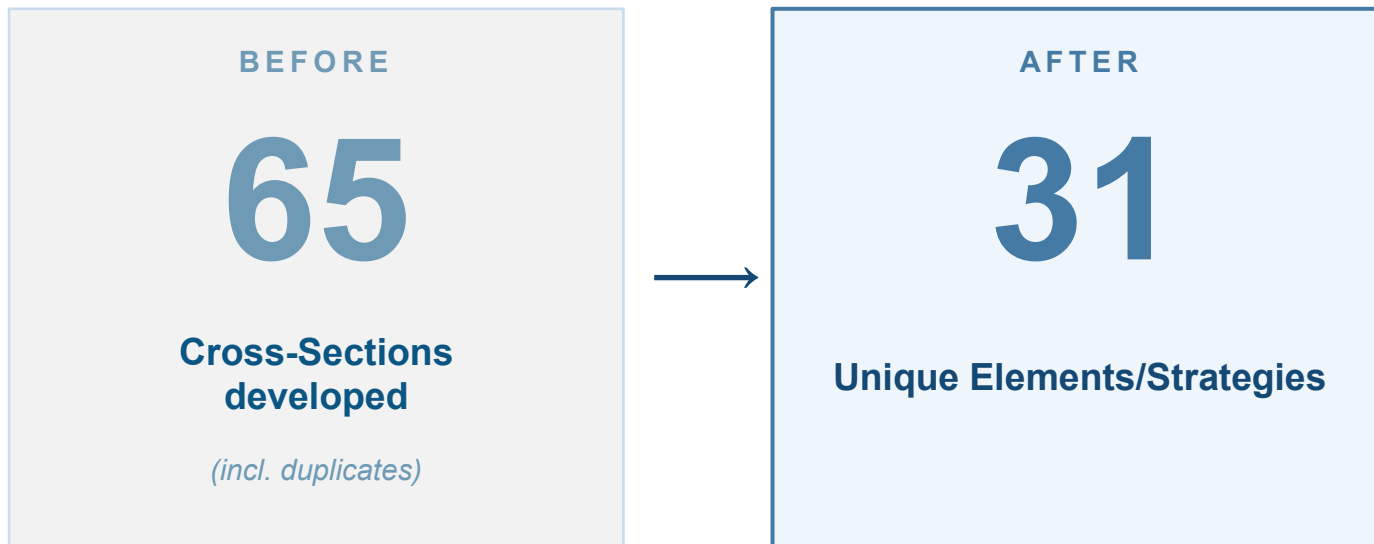
65

**Cross-Sections
along 5-Mile Corridor**

STEP 2

Consolidation

Examine cross-sections to extract specific strategies and elements



How: Cross-reference all elements/strategies where identical or overlapping elements are merged (i.e. Cross Sections 1, 10, 15 indicate a curb extension; this is 1 distinct element/strategy, not 3)

Screening Criteria Matrix: Elements/Strategies vs Goals

Each element/strategy gets evaluated against the 4 project goals as we develop each draft concept

Strategy/Element		Goal 1 Safer & Inclusive	Goal 2 Access & Connect.	Goal 3 Mobility Trends	Goal 4 User Exper.
Bike and Mobility Infrastructure					
1	Widening of the existing bike pathway (e-bike + standard bike traffic flows)				
2	East-curb e-bike lane (with buffer)				
3	Bike and E-Bike facilities on both east and west side of corridor (leisure & express)				
4	Widen buffer between roadway and bike path (noise reduction, headlight visibility)				
5	Center Running Median – Bike/E-Bike				
Intersection & Crossing Safety Treatments					
6	Median Tip improvements — expansions, widening, queue space at busiest intersections (Concrete or Paint)				
7	LPI Signal Timing Changes				
8	Space Delineation between Cyclists and Pedestrian at Crosswalks				
9	Raised Crosswalks/Raised Intersections (Across Vehicle Lanes / Across Bike Path)				
10	Visibility Upgrades: (Reflective Paint, Pavement LEDs)				
11	Widen landing spaces (east curb and west curb) at busy intersections — widen N/S or E/W				
12	Protected Intersection Designs (turn calming, corner buffer islands)				
Bike Path Operations and Safety Features					
13	Bike Path Slowing treatments at busiest intersections				
14	Cyclist Rumble Strips at Crossing Approaches				
15	Improved lighting along the bike pathway				
Pedestrian Infrastructure & Experience					
16	New pedestrian walking/running path along the bike path/west side				

EXAMPLE

Screening Criteria Matrix: Elements/Strategies vs Goals

Each element/strategy gets evaluated against the 4 project goals as we develop each draft concept

	Strategy/Element	Goal 1 Safer & Inclusive	Goal 2 Access & Connect.	Goal 3 Mobility Trends	Goal 4 User Exper.
17	Pedestrian path improvements on both sides of the roadway				
18	Widened pedestrian paths at narrowest sections (e.g. North of 52nd St)				
19	Improved shade				
	Transit (Bus Operations)				
20	Bus Operations on the corridor (Dedicated Bus Lane or Non-Dedicated)				
21	Center Operating Bus lanes				
	Roadway Configuration & Lane Reallocation				
22	Parking Lane Removal				
23	1 or more lane reduction in each direction				
24	1 lane reduction only in the NB direction				
25	Reduce median width				
	Resiliency - Streetscape & Green Infrastructure				
26	Introduce more green space on the eastern curb				
27	Introduce more green space (west & east curbs, existing buffer space & future buffers)				
28	Introduce green infrastructure within new or existing green spaces (bioswales, grassed swales)				
29	Larger green medians				
	Wayfinding & Network Integration				
30	Wayfinding Signage Connecting to Existing Bike Network Connections				
	Operations & Maintenance / Access				
31	Incorporate design considerations and improved access points for HRPT maintenance and facility access				

EXAMPLE

What the screening told us and where we go next!

After evaluating our cross sections against our four project goals and consolidating, we are left with a toolbox of elements/strategies. These elements now serve as the foundation for three distinct draft concepts, each building on the others to improve safety, access, mobility, and the user experience.

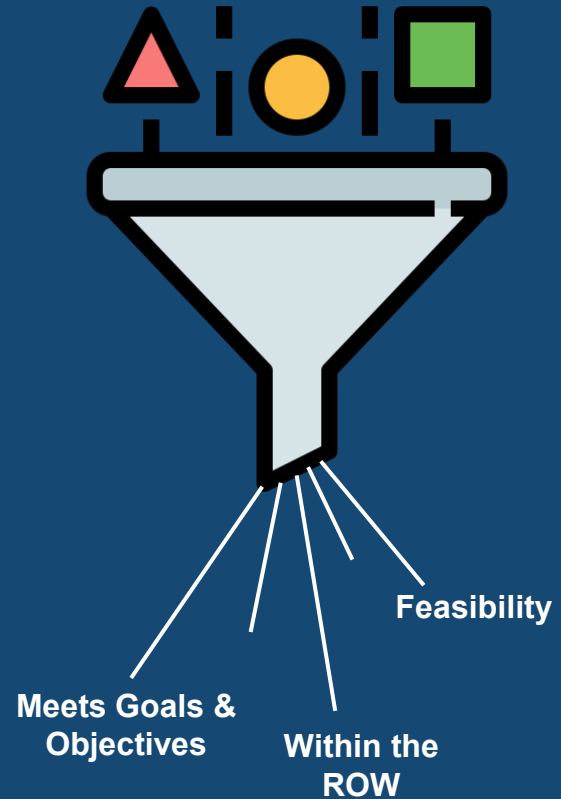
31

Elements/
Strategies
established

**Draft
Concepts
Developed**

4

Project goals
being evaluated



Short Term Strategies



Element #6

Curb extensions and
enhanced medians



Element #12

Traffic Calming



Element #30

Improved Network Connectivity



Element #8

Enhanced Space Delineation

Mid-Term Strategies



Repurposing Parking Space

Element #22



Element #9

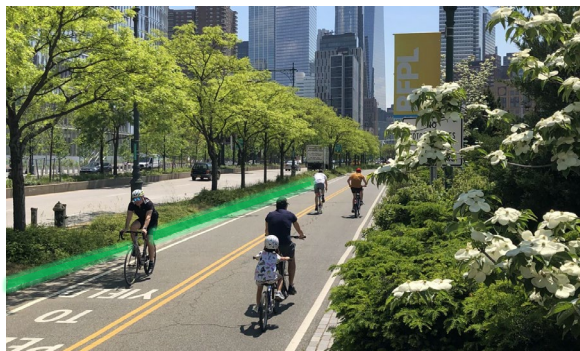
Raised Crosswalks



Element #10, 12

Pedestrian Improvements

Long-Term Strategies



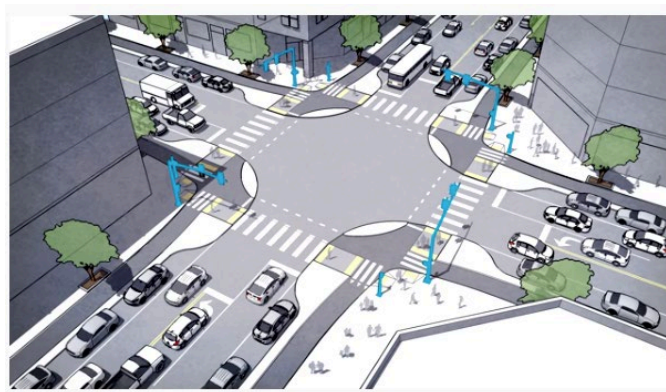
Element: 1

Widening of Existing Bike Pathway



Elements:
1,2,3,4,16,17,
27,29

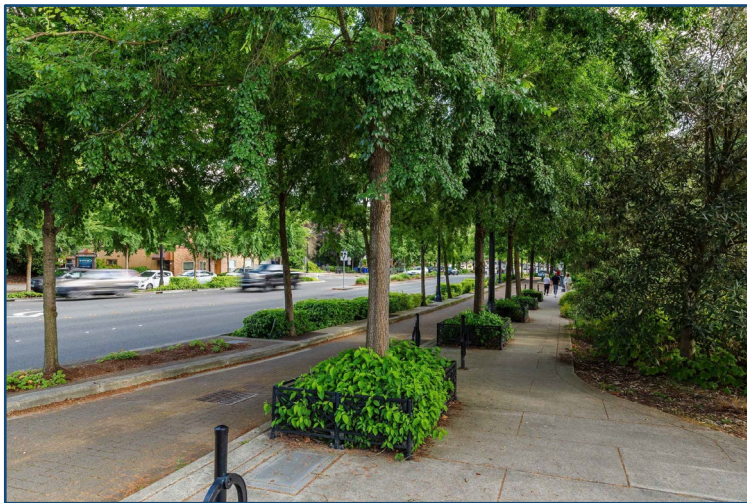
Roadway Reconfiguration



Elements:4,5,11

Curb Improvements

Resiliency Strategies



New and Expanded Green Space

Elements: 24,25,26



Green Infrastructure

Element: 27

Short, Mid, Long-Term – Detail Evaluation

EXAMPLE

Strategy/Element	Goal 1 Safer & Inclusive	Goal 2 Access & Connect.	Goal 3 Mobility Trends	Goal 4 User Exper.
Intersection & Crossing Safety Treatments				
Median Tip improvements — expansions, widening, at busiest intersections (Concrete or Paint)				
Space Delineation between Cyclists and Pedestrians at Crosswalks				
Bike Path Operations and Safety Features				
Bike Path Slowing treatments at busiest intersections				

4

Fully
Meets
Goal

3

Partially
Meets
Goal

2

Meets
Goal
Marginally

1

Does Not
Meet
Goal
EXAMPLE
Waterside
(W)Landside
(E)

Short, Mid, Long-Term – Detail Evaluation

EXAMPLE

Strategy/Element	Goal 1 Safer & Inclusive	Goal 2 Access & Connect.	Goal 3 Mobility Trends	Goal 4 User Exper.
Intersection & Crossing Safety Treatments				
Median Tip improvements — expansions, widening, at busiest intersections (Concrete or Paint)	4			4
Space Delineation between Cyclists and Pedestrians at Crosswalks	4		3	4
Bike Path Operations and Safety Features				
Bike Path Slowing treatments at busiest intersections	4			3

4Fully
Meets
Goal**3**Partially
Meets
Goal**2**Meets
Goal
Marginally**1**Does Not
Meet
Goal

● Safer & Inclusive

● Access & Connect.

● Mobility Trends

● User Experience

EXAMPLE

Sample Summary- Draft Concepts

Combining the Elements/Strategies into distinct Strategy approaches for evaluation that meet all 4 goals

Short Term

- Maintains existing bike & roadway capacity
- Traffic Calming: slow bikes, peds, cars to create friction

Meets **xx of 31** elements
Meets **x of 4** goals

Mid-Term

- Dedicated E-Bike Lane
- General Bus Lane included
- Includes most safety elements from Short Term bucket

Meets **xx of 31** elements
Meets **x of 4** goals

Long Term

- Reconfigures the entire cross-section
- Needs Further Study

Meets **xx of 31** elements
Meets **x of 4** goals

From Concepts to Community Decision

A structured five-phase process to refine, test, and recommend the preferred corridor strategies.

01

Developing Draft Concepts

Prepare drawings and cross-sections for CDs based on the 31 elements/ strategies criteria.



02

Stakeholder Feedback

Meet with key stakeholders: agencies, advocates, and adjacent property owners, to gather initial reactions and technical input.



03

Refine Concepts

Incorporate stakeholder feedback to update and strengthen each concept before broader public release.



04

Community Review

Present refined concepts at public open houses along the corridor. Collect community input on priorities and tradeoffs.



05

Evaluate & Recommend

Score all feedback against project goals. Identify the preferred concept and advance toward the final strategies/ recommendations.



Questions?