



**NYC Parks**

# **RECONSTRUCTION OF BUS STOPS AND PERIMETER SIDEWALKS ON RIVERSIDE DRIVE**

From West 97th Street to West 129th Street in Riverside Park,  
Borough of Manhattan

Community Board 7 Meeting  
March 21, 2016  
Quennell Rothschild & Partners

## GOALS

- Improve pedestrian safety at bus stop locations
- New ADA-compliant bus access
- New paved bus loading areas
- New paved sidewalks
- Repair uneven paving & curbs
- Update bus stops locations
- Replace historic paving details at monuments
- Repair landscape areas adjacent to bus stops

**TOTAL BUDGET:** \$1.875 million  
TEA 21 1.5 M Federal Grant, \$375 local match DPR/DOT

**PROJECT SIZE:** 0.85 acres



Scope meeting was held on July 15th, 2015 and attended by NYCDPR, Quennell Rothschild and Partners, CB7 and CB9.

### **COMMENTS FROM SCOPE MEETING:**

The group physically surveyed sites between 100 St. and 108th St. and reviewed design drawings of the remaining sites. Their biggest concerns for bus stop improvement design include:

- Repair of dangerous tripping hazards at bus stops and on approaches to bus loading areas including settled and broken pavement and curbs.
- Remove bus stops from areas where they overlap with pedestrian crosswalks.
- Design in keeping with surrounding monument paving and views.
- Adding ADA access at each of the bus stops in the project area including ADA ramps at crosswalks and paved access to bus loading areas.
- Minimize parking area removal at bus bump-outs.
- Provide safe vehicular navigation around stopped buses.





Borough

0' 10000'



RIVERSIDE DRIVE BUS STOPS | Project Location



Neighborhood

0' 500'

LEGEND

— Riverside Dr.





**LEGEND**

- Riverside Dr.
- 5 min. walk
- ..... 10 min. walk

**FREDERICK DOUGLASS PLAYGROUND**  
playground, soccer field, basketball field

**STRAUS PARK**  
community garden

**WEST 111TH ST PEOPLE'S GARDEN**  
community garden

**SAKURA PARK**  
community garden

**RIVERSIDE PARK**  
waterfront park



**RIVERSIDE DRIVE BUS STOPS | Neighborhood Context**

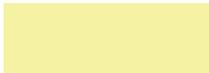
HUDSON RIVER

LEGEND

— Riverside Dr.



LEGEND

	1 and 2 Family Residential		Outdoor Recreation		Industrial		Vacant Lots
	Multi-family Residential		Commercial		Parking		
	Mixed Use		Institutional		Transportation/Utilities		



RIVERSIDE DRIVE BUS STOPS | Land Use

# HUDSON RIVER

## LEGEND

--- Riverside Dr.

RIVERSIDE DRIVE BUS STOPS

## LEGEND

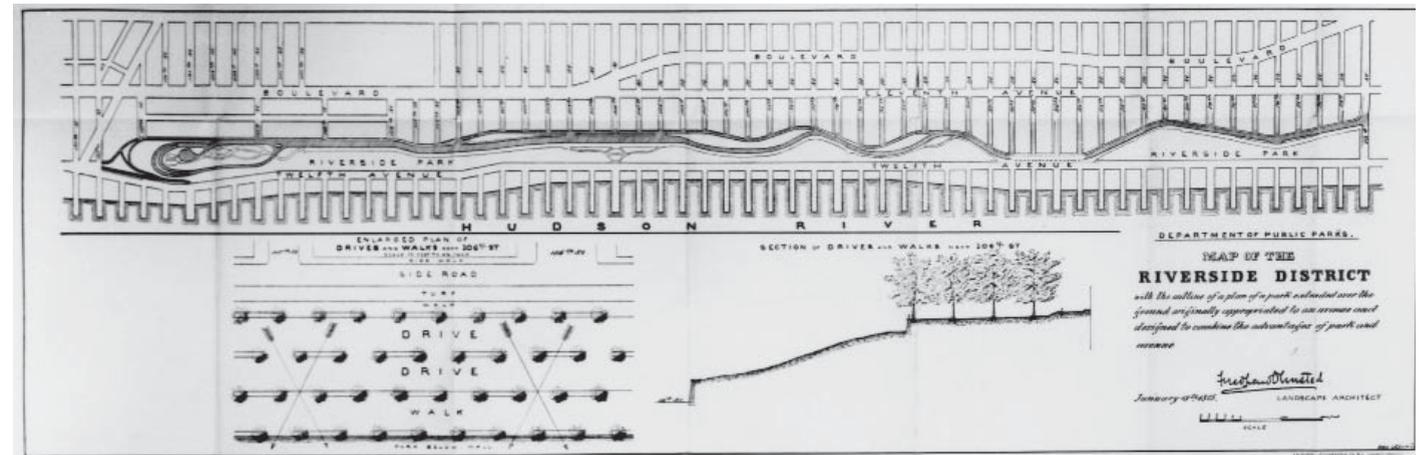
- 100 Year Flood Zone
- 100 Year Flood Zone with Velocity Hazard
- Outside 500 Year Flood Zone



# RIVERSIDE DRIVE BUS STOPS | Flood Risk



Clockwise from Left:  
 Reconstruction c. 1934,  
 Postcard c.1915,  
 Schematic Plan by Frederick Olmsted, 1875





1 Existing Raised Bus Platform looking East



2 Existing Bus Platform looking South



Key

NTS



RIVERSIDE DRIVE BUS STOPS | Existing Condition - 100th Street Southbound



1 Existing Bus Stop at Monument & Existing Tree



2 View South at Existing Bus Stop Terminus at tree



Key NTS



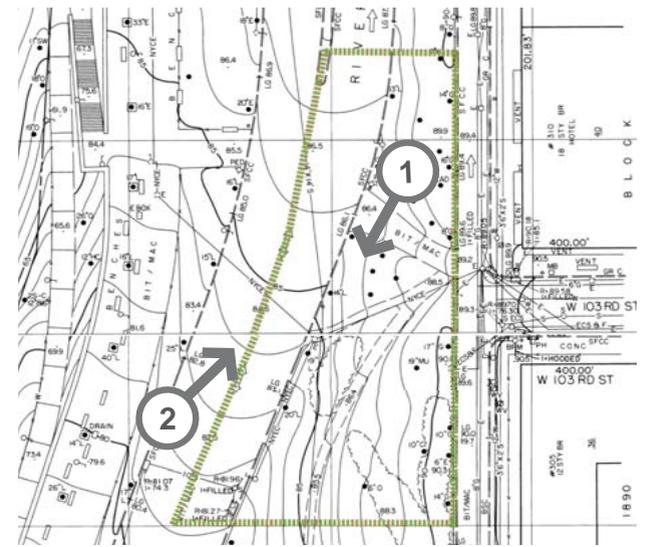
RIVERSIDE DRIVE BUS STOPS | Existing Condition - 100th Street Northbound



1 Existing Bus Stop



2 Existing Bus Stop Boarding Area



Key

NTS



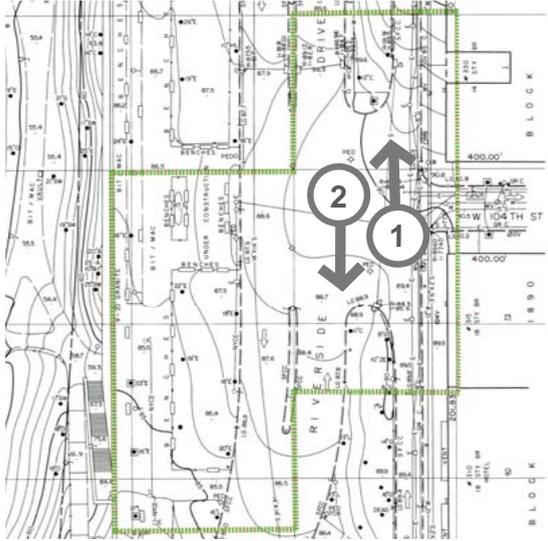
RIVERSIDE DRIVE BUS STOPS | Existing Condition - 103rd Street Northbound



1 View of Planted Island on North side of Intersection



2 View of Planted Island on South side of Intersection



RIVERSIDE DRIVE BUS STOPS | Existing Condition - 104th Street Northbound

Key

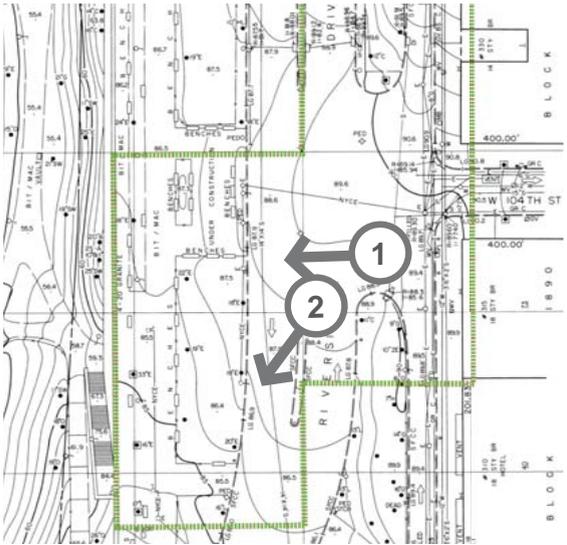
NTS



1 Existing Intersection at 104th ST



2 Area for Proposed Sidewalk Extension



Key NTS



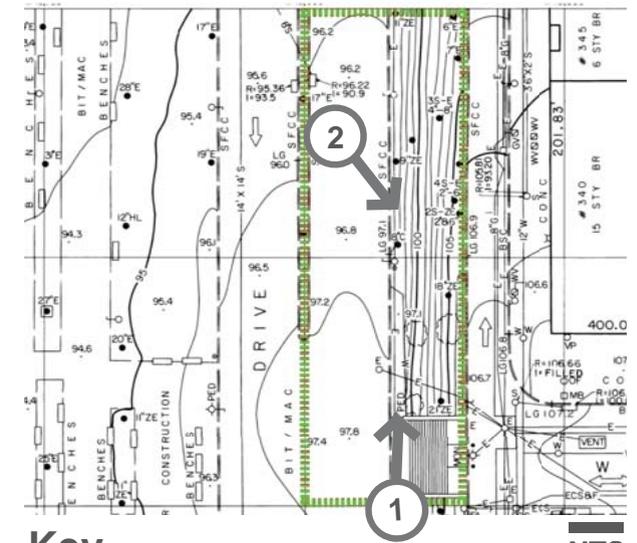
RIVERSIDE DRIVE BUS STOPS | Existing Condition - 104th Street Southbound



1 Existing Bus Stop with Signal Pole & Stairs



2 Existing Bus Stop Boarding Area



Key NTS



RIVERSIDE DRIVE BUS STOPS | Existing Condition - 106th Street Northbound



**Bus Stop clearance too short. Stopped bus blocks crosswalk**

**Bus loading area settlement**

**Pavement heaving & settlement**

**Curb heaved and cracked**

**Pavement settlement**

**No ADA access to loading area**

**Existing Raised Bus Platform looking East**





Existing tree inhibits bus stop extension

Bus stop clearance too short. Stopped bus blocks crosswalk

Bus stop impacts historic monument

Existing traffic pole

No ADA accessible ramp

Existing Bus Stop at Monument & Existing Tree





**Non-standard  
ADA ramp**

**Path width varies**

**Bus stop clearance  
too short  
Stopped bus blocks  
crosswalk**

**Curb heaving  
and cracking**

**Existing Bus Stop Boarding Area**





Catch basin to be relocated

Planted median stops short of crosswalk and provides no pedestrian protection

Crosswalk provides no safe stopping zone for pedestrians during dual road crossing

View of Planted Island on South side of Intersection





Crosswalk provides no safe stopping zone for pedestrians during dual road crossing

Planted median stops short of crosswalk and provides no pedestrian protection

View of Planted Island on North side of Intersection





Bus stop to be relocated

Trees located in proposed new sidewalk zone

Curbs heaved and cracked

Pavement settlement

Non-standard ADA ramp

Existing Raised Bus Platform looking West





Plants on slope spread into paved area

Bluestone pavers heaved, cracked and missing

Bus stop impacts historic monument

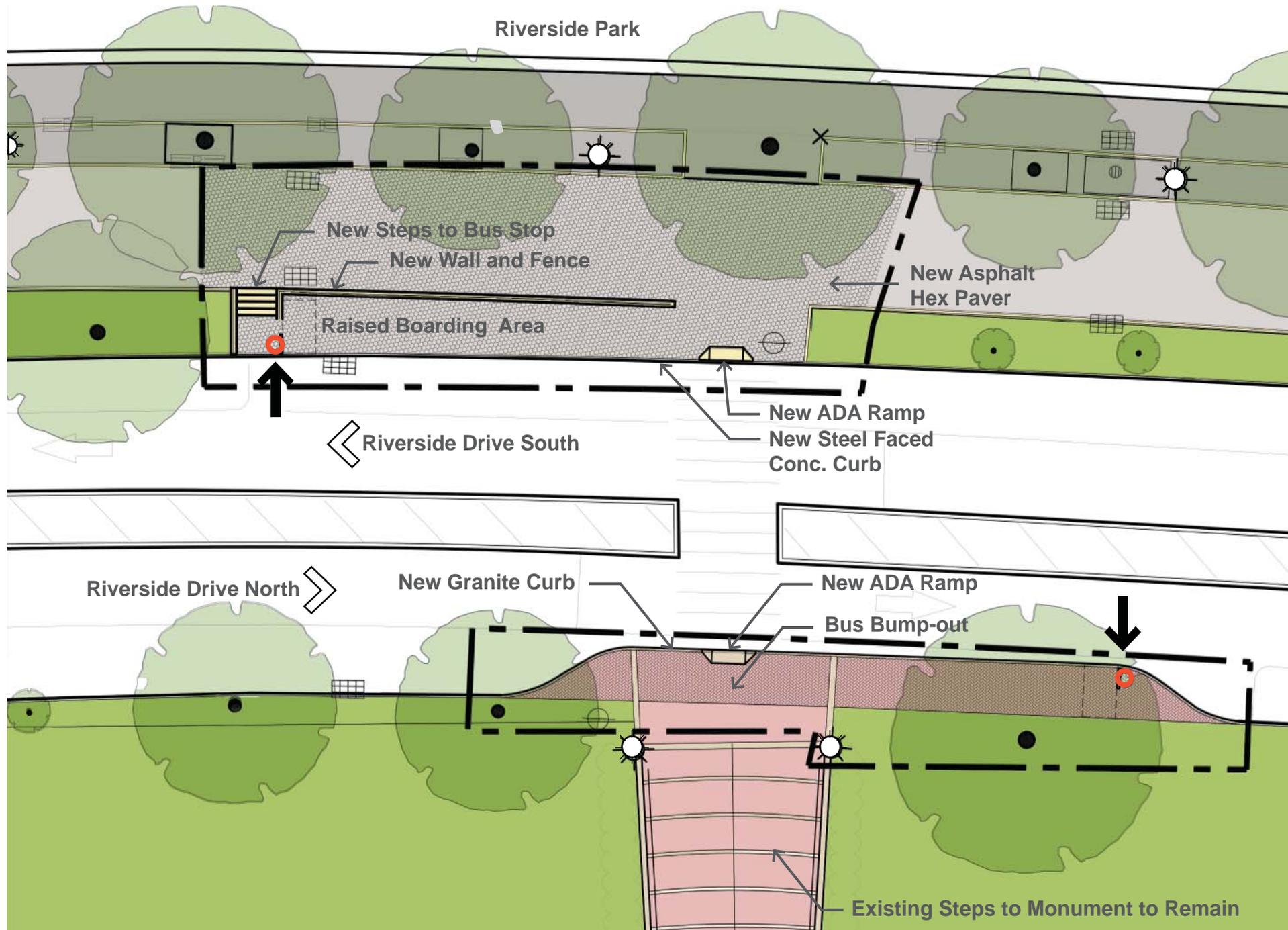
Signal box blocks min. 3' clearance needed for ADA access to bus stop

No ADA accessible ramp

Curb heaved and cracked

Existing Bus Stop Boarding Area



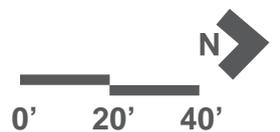


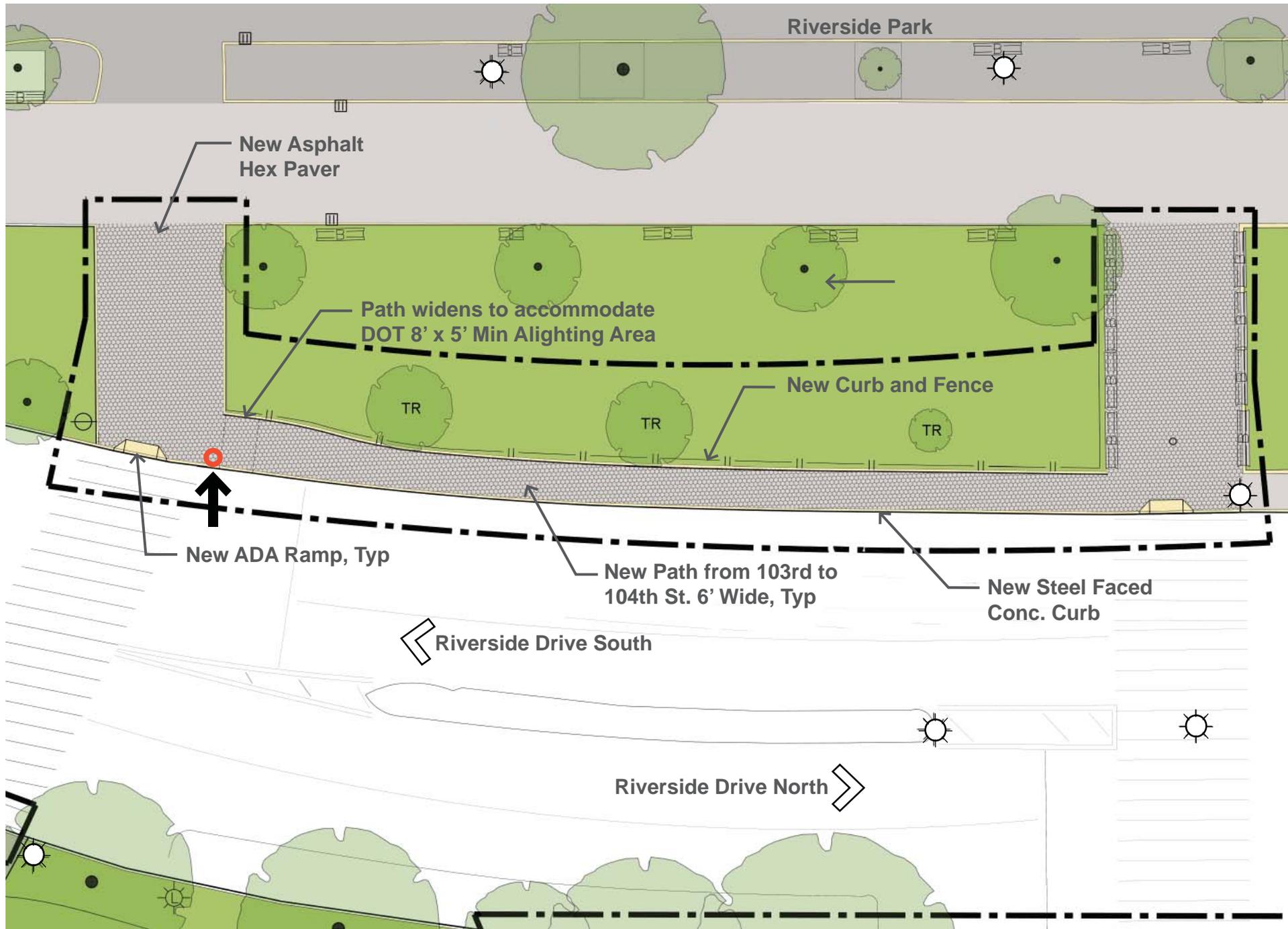
**LEGEND**

-  Project area
-  8' x 5' DOT Alighting Area
-  New Bus Stop
-  Existing Tree
-  Proposed Tree
-  Existing Street Light Post
-  Existing Inlet
-  Existing Lawn
-  Asphalt Block - Existing
-  Asphalt Block - New
-  Concrete Paving/Curbs
-  Brick Paving - Existing
-  Brick Paving - New
-  Granite Paving/Curbs
-  Paving Various



**RIVERSIDE DRIVE BUS STOPS | Schematic Plan - 100 St. Northbound & Southbound**



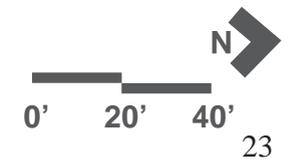


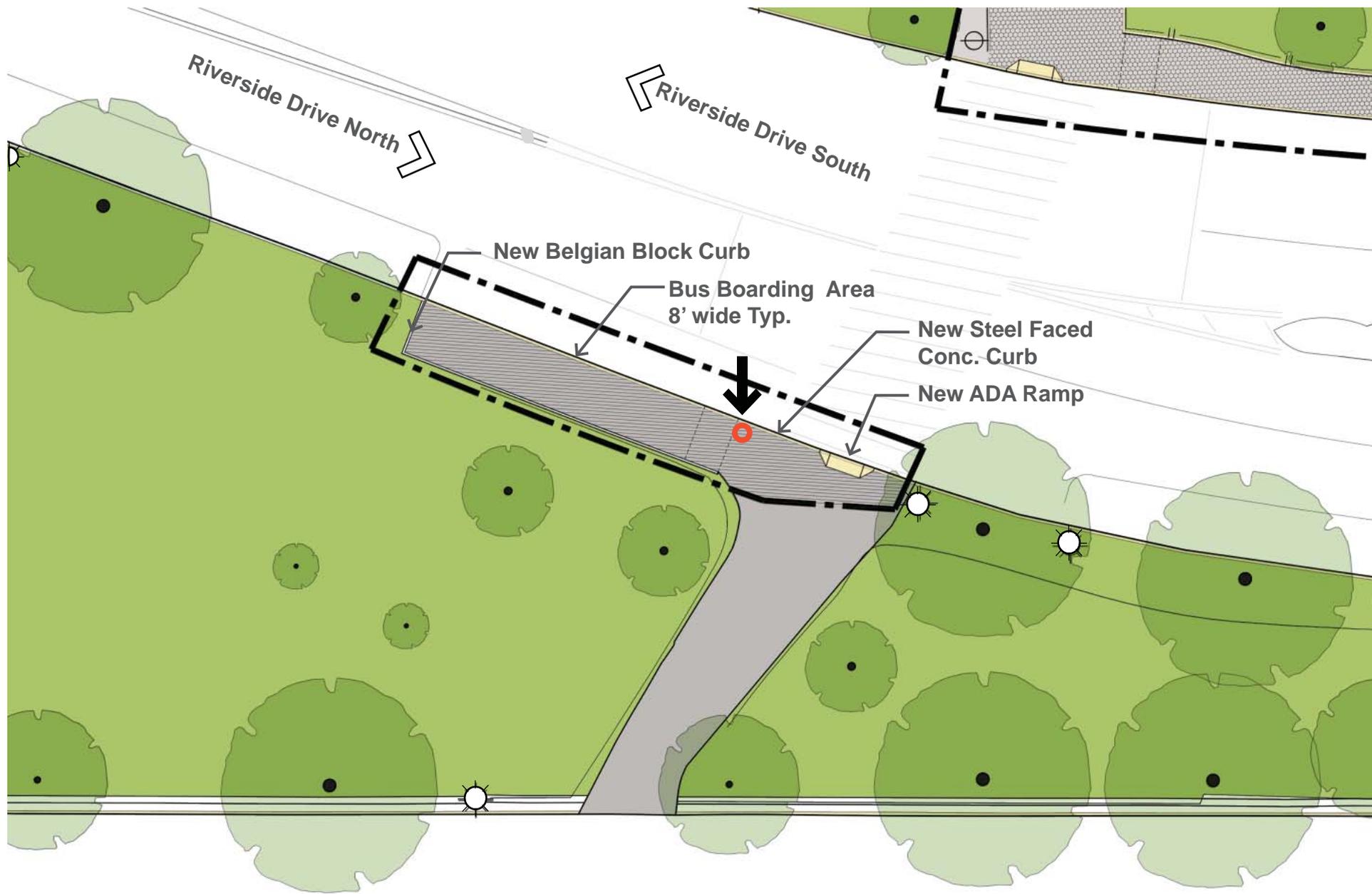
**LEGEND**

-  Project area
-  8' x 5' DOT Alighting Area
-  New Bus Stop
-  Existing Tree
-  Proposed Tree
-  Transplanted Tree
-  Existing Street Light Post
-  Existing Inlet
-  Existing Lawn
-  Asphalt Block Paving
-  Asphalt Block - New
-  Concrete Paving/Curbs
-  Paving Various



**RIVERSIDE DRIVE BUS STOPS | Schematic Plan - 103 St. Southbound**



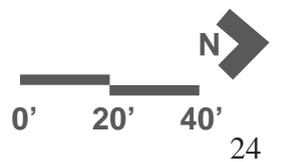


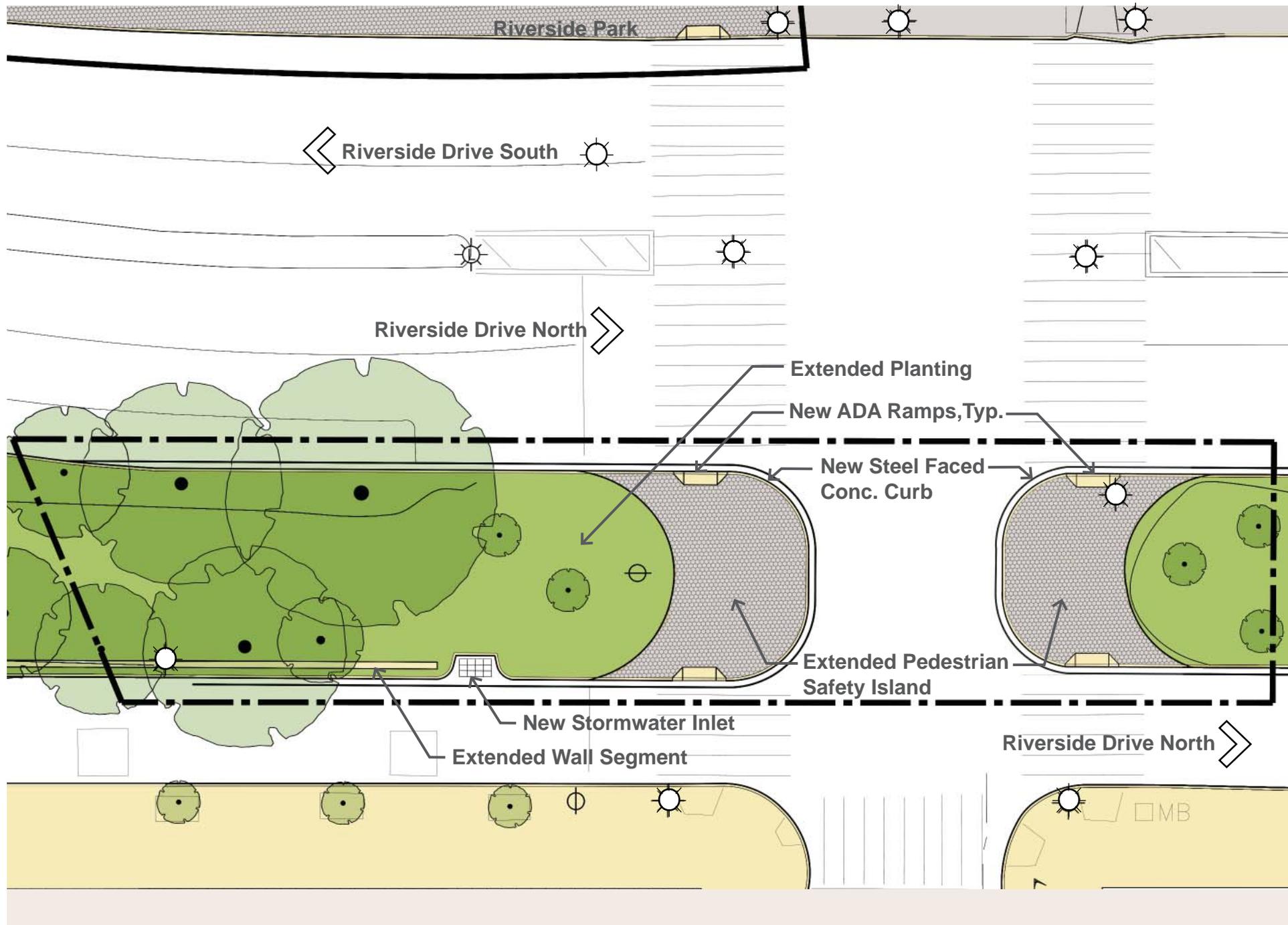
### LEGEND

-  Project area
-  8' x 5' DOT Alighting Area
-  New Bus Stop
-  Existing Tree
-  Proposed Tree
-  Existing Street Light Post
-  Existing Inlet
-  Existing Lawn
-  Asphalt - Existing
-  Asphalt - New
-  Asphalt Block - New
-  Concrete Paving/Curbs
-  Paving Various



## RIVERSIDE DRIVE BUS STOPS | Schematic Plan - 103 St. Northbound



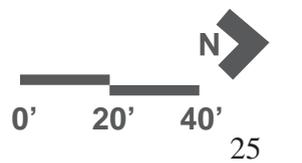


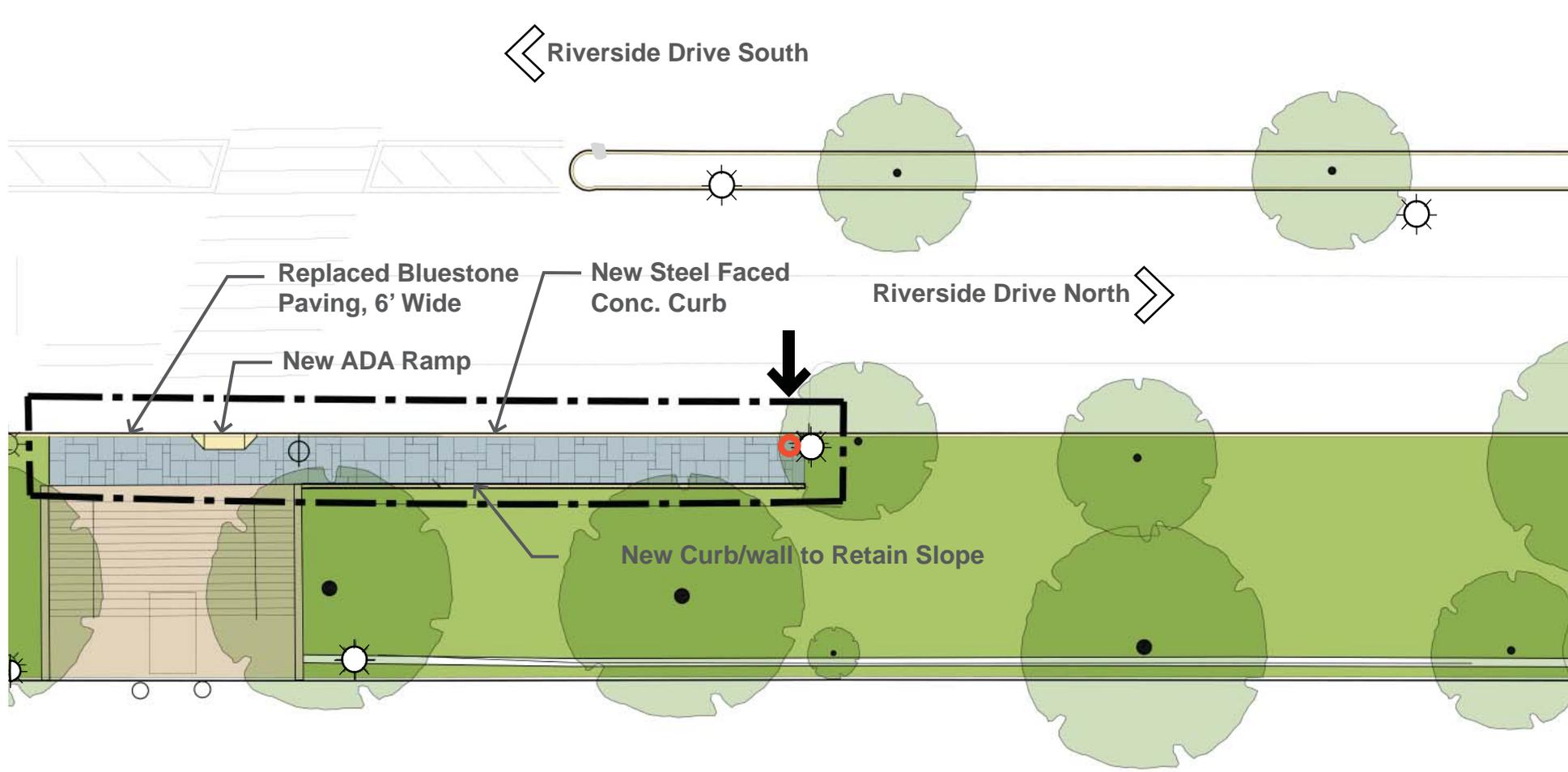
**LEGEND**

-  Project area
-  New Bus Stop
-  Existing Tree
-  Proposed Tree
-  Existing Street Light Post
-  Existing Inlet
-  Existing Lawn
-  Asphalt Block Paving  
Asphalt Block - New
-  Concrete Paving/Curbs



**RIVERSIDE DRIVE BUS STOPS | Schematic Plan - 104 St. Northbound & Southbound**



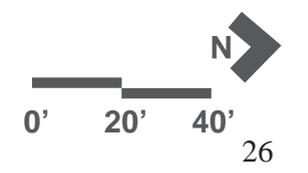


**LEGEND**

-  Project area
-  New Bus Stop
-  Existing Tree
-  Proposed Tree
-  Existing Street Light Post
-  Existing Inlet
-  Existing Lawn
-  Concrete Paving/Curbs
-  Bluestone Paving
-  Granite Paving/Curbs



**RIVERSIDE DRIVE BUS STOPS | Schematic Plan - 106 St. Northbound**





**ASPHALT PAVERS**



**BRICK**



**BLUESTONE**



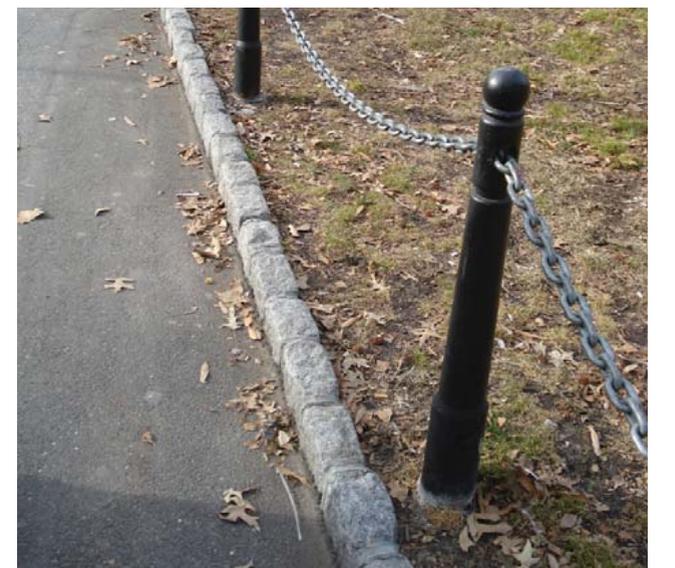
**PIPE RAIL FENCE**



**GRANITE CURB**



**BLUESTONE CURB**



**BELGIAN BLOCK CURB**

