

Forest Avenue & Manursing Avenue Pedestrian Improvement Study

Public Outreach Meeting #2

City of Rye, NY

July 13th 2016



Table of Contents

- Project Overview
- Existing Conditions Overview
- 1st Public Meeting Recap
- Traffic Review
- Pedestrian Improvement Options
- Questions / Discussion Session





FOREST AVENUE / MANURSING AVENUE PEDESTRIAN IMPROVEMENT STUDY



Existing Conditions Overview

Infrastructure

Utility poles

Fire Hydrants

Catch basins/drainage improvements needed



Neighborhood Character

Existing mature trees

Existing shrubs and groundcovers



Roadway and Topography

Ledge and Steep Slopes

Poor Sight Lines at Manursing Ave. & Forest Ave. Intersection

50' Right-of-Way



1st Public Meeting Recap (April 13, 2016)

- **Pedestrian Safety**
- **Traffic Concerns**
- **Maintenance**
- **Drainage**
- **Final Thoughts:**
 - Focused on Reasonable Options (Multi-Use path, Sidewalk & Widened Shoulders)
 - Keep Rye's Roadway Character
 - Pedestrians' Safety is Key

Traffic Review

Saturday: May 21, 2016 (8:00am-1:00pm)

Pedestrian Type	Observed Counts					Daily Total	
	Time	8:00-9:00	9:00-10:00	10:00-11:00	11:00-12:00		12:00-1:00
Jogger		6	11	11	5	7	40
Walker		14	13	13	10	10	60
Stroller		3	2	3	3		11
Dog Walker		1	8	9	2	3	23
Children walking						2	2
Children on Bikes			1				1
Adults on Bikes		20	8	20	8	12	68
Hourly Totals		44	43	56	28	34	205

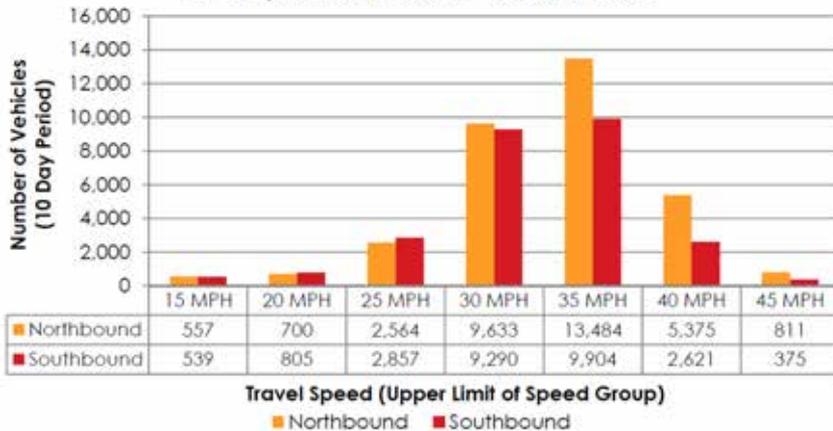
Wednesday: May 25, 2016 (7:00am-11:00am & 1:30pm-3:30pm)

Pedestrian Type	Observed Counts						Daily Total	
	Time	7:00-8:00	8:00-9:00	9:00-10:00	10:00-11:00	1:30-2:30		2:30-3:30
Jogger		9	4	9	4		1	27
Walker		9	12	11	6	12	6	56
Stroller				2	4	1	1	8
Dog Walker		5	2	7		4	2	20
Children walking		1	2				3	6
Children on Bikes			1			1		2
Adults on Bikes		5	5	13	6	6	8	43
Hourly Totals		29	26	42	20	24	21	162

Average Weekday Traffic - Forest Avenue (near Boulder Road)



Travel Speed Distribution - Forest Avenue



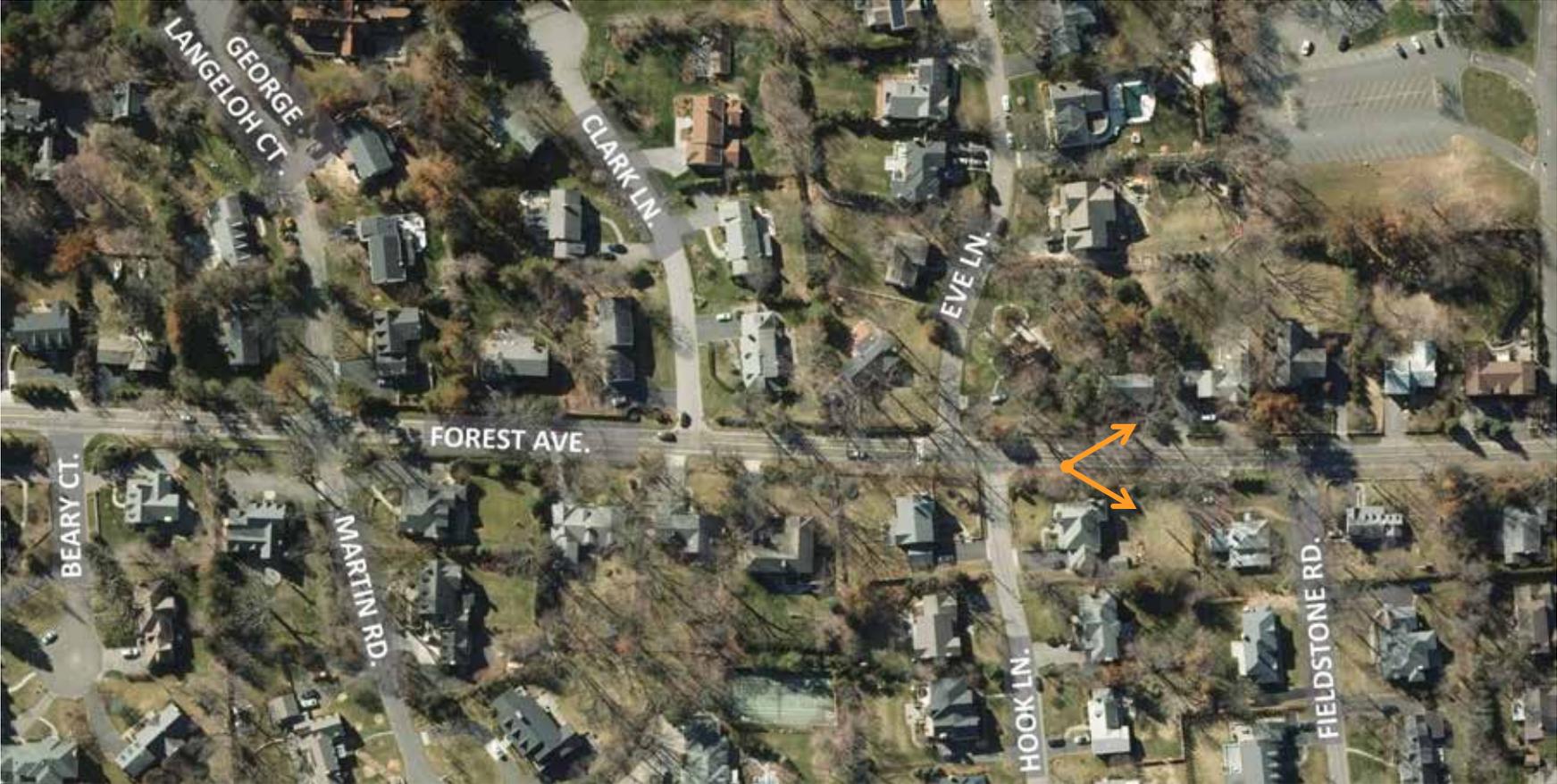
Pedestrian Improvement Options

- No-Build Scenario
- Sidewalk
- Sidewalk with Grass Median
- Multi-use Trail with Rumble Strip
- Multi-use Trail with Grass Median



Pedestrian Improvement Options

Forest Avenue, North of Hook Lane



Pedestrian Improvement Options

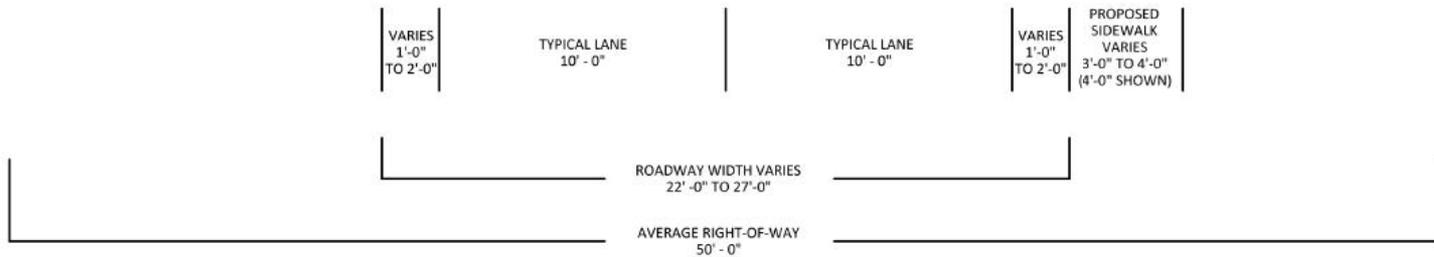
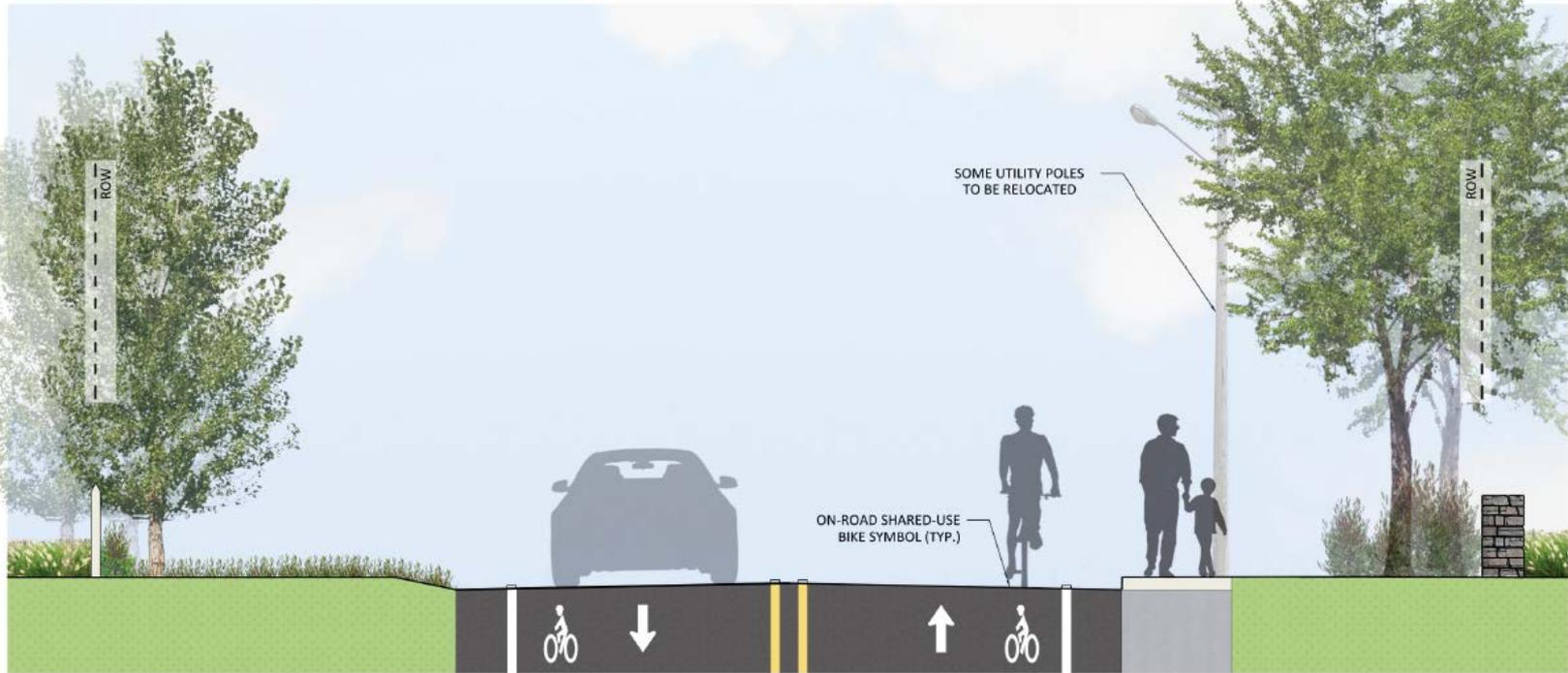
Existing Condition Forest Avenue, North of Hook Lane



Pedestrian Improvement Options

Proposed 4' Sidewalk



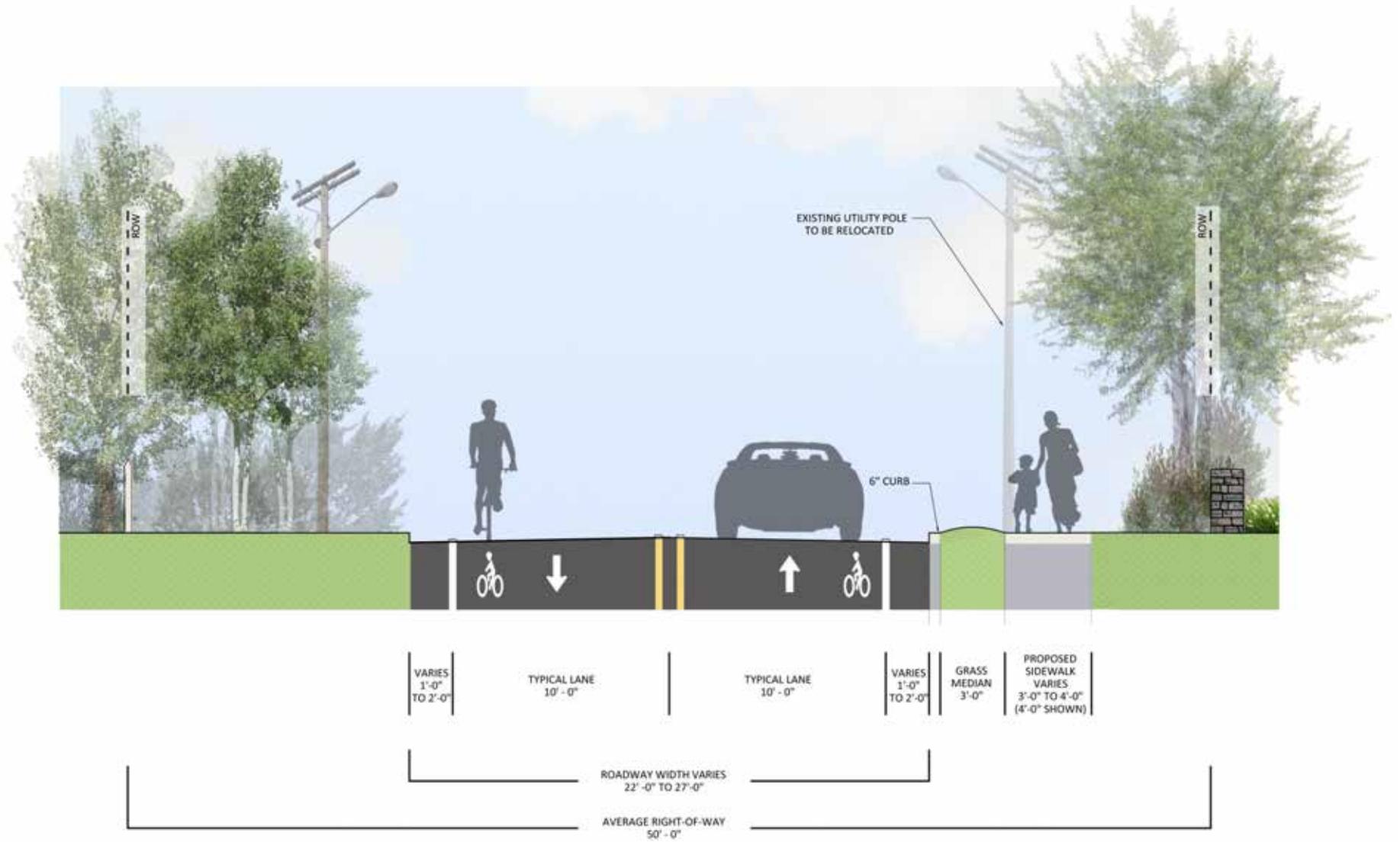


TYPICAL SIDEWALK ON EAST SIDE OF ROAD

Pedestrian Improvement Options

Proposed 4' Sidewalk with Grass Median



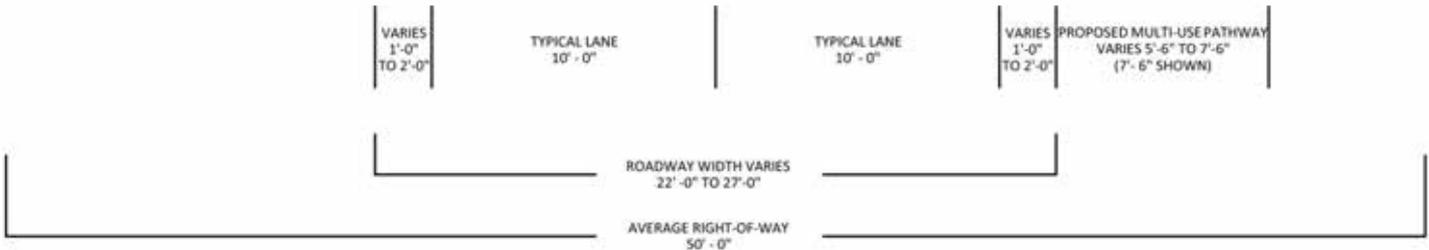
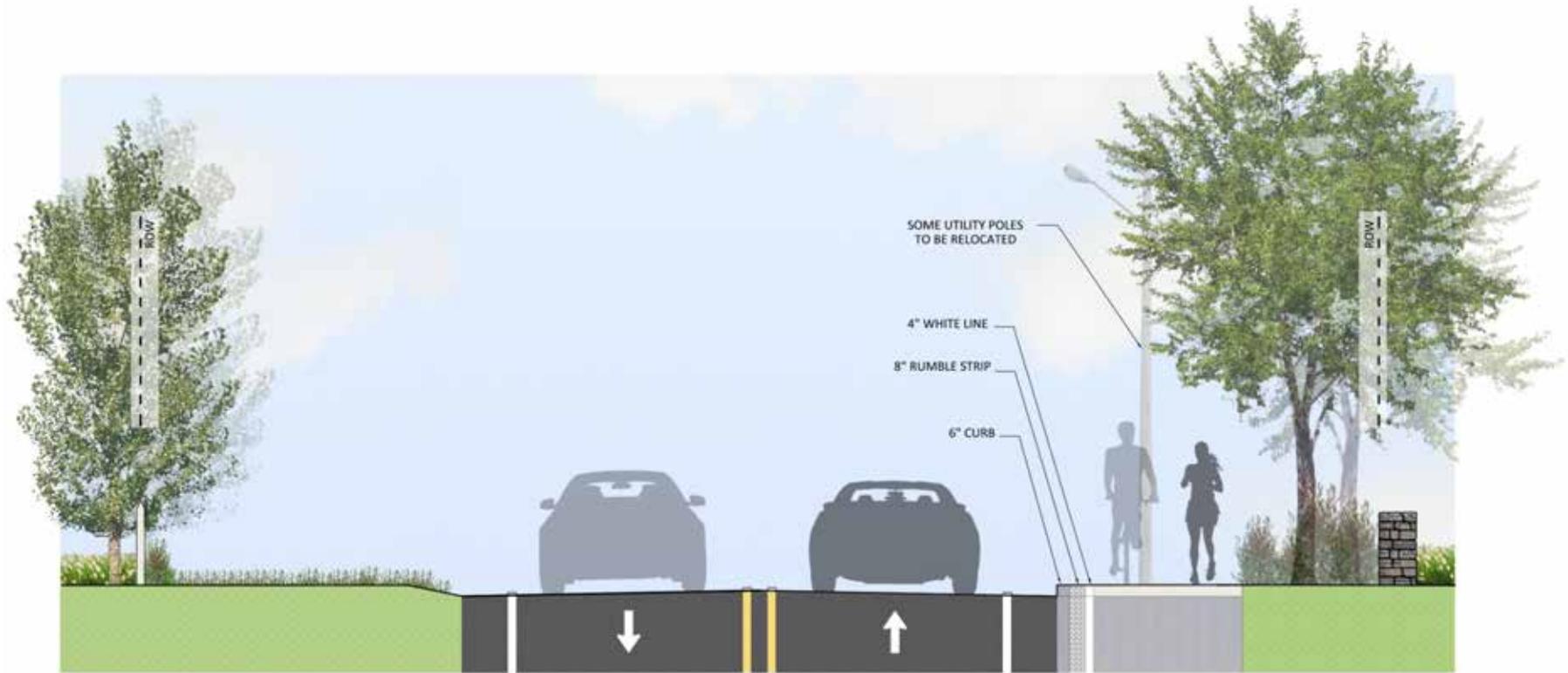


TYPICAL SIDEWALK ON EAST SIDE OF ROAD WITH GRASS MEDIAN

Pedestrian Improvement Options

Proposed 6' Multi-Use Path with Rumble Strip

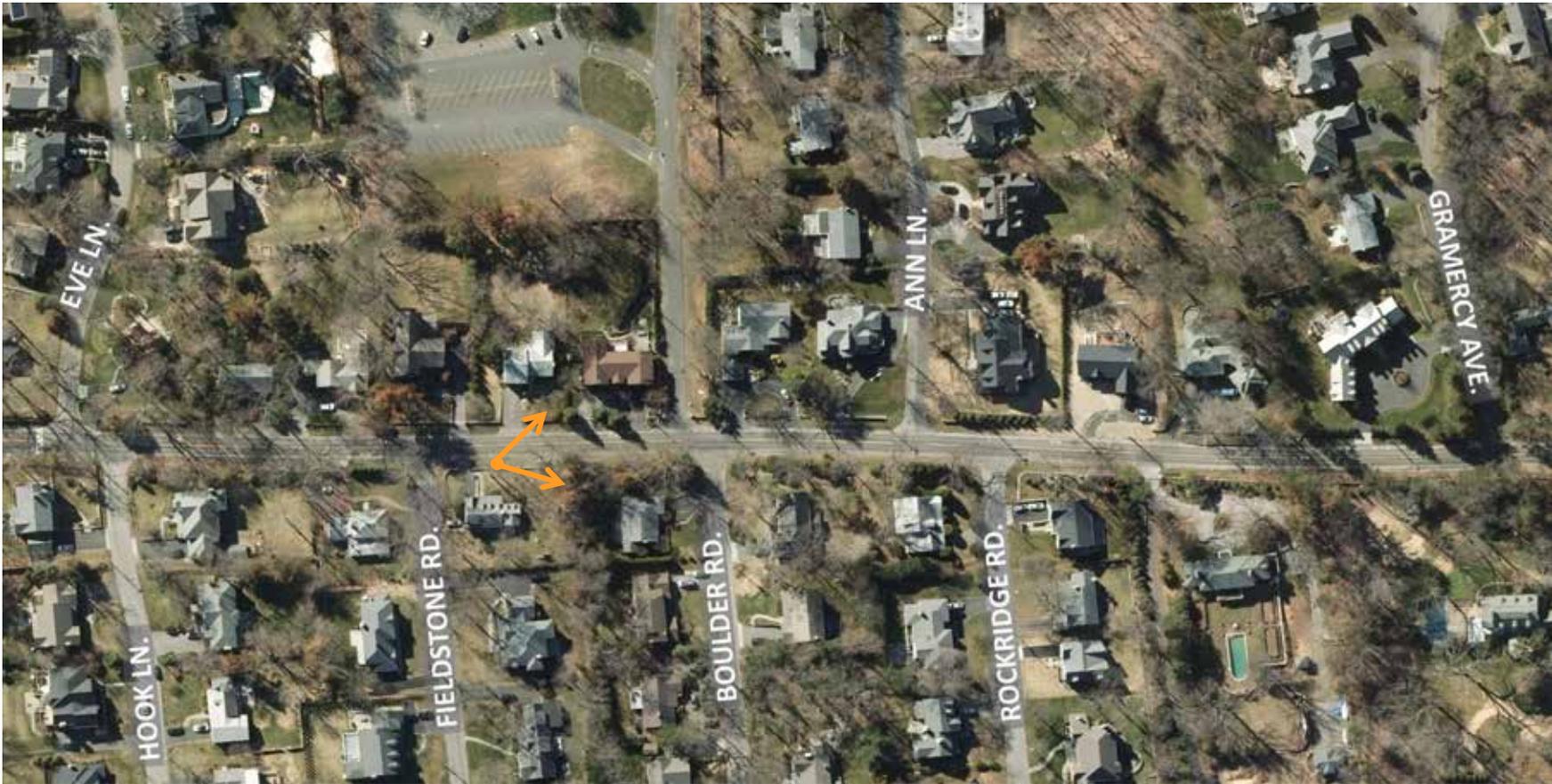




TYPICAL OFF-ROAD MULTI-USE PATH WITH RUMBLE STRIP

Pedestrian Improvement Options

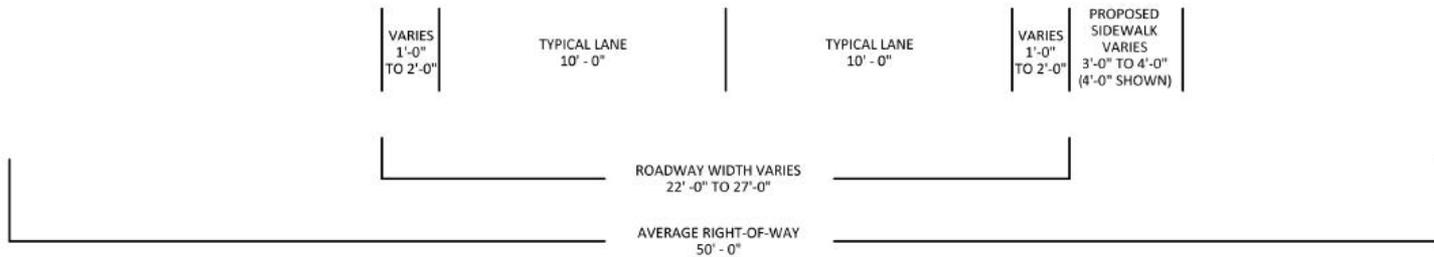
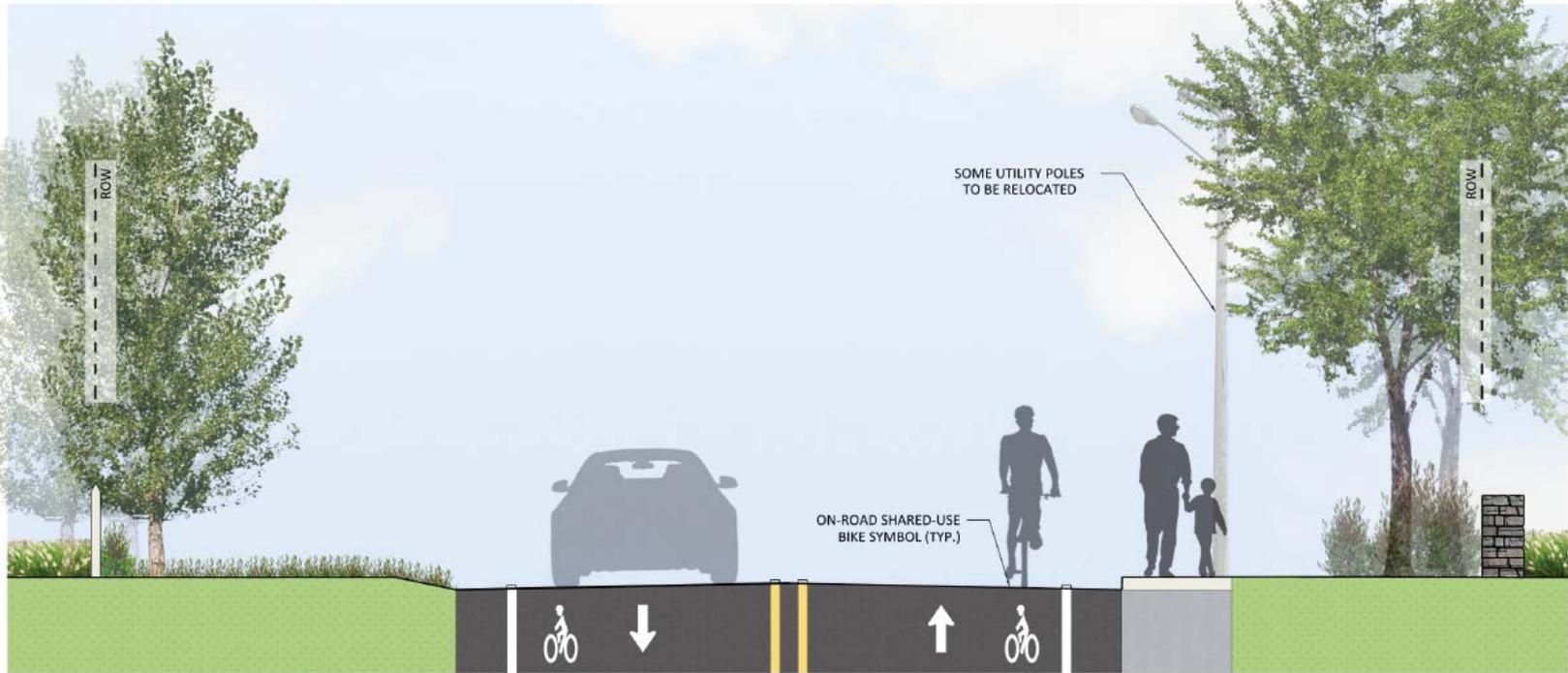
Forest Avenue, North of Fieldstone Road



Pedestrian Improvement Options

Existing Condition Forest Avenue, North of Fieldstone Road

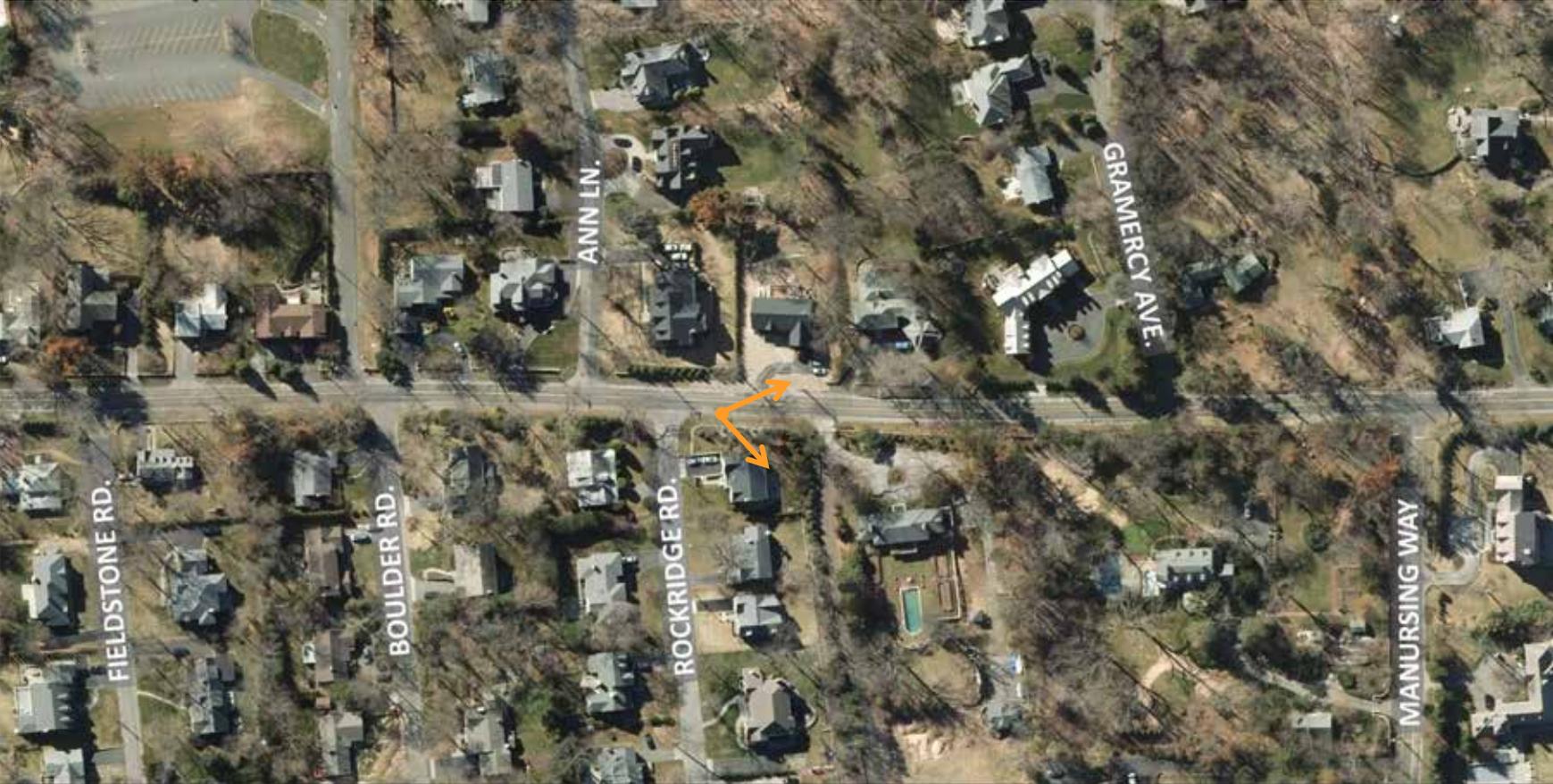




TYPICAL SIDEWALK ON EAST SIDE OF ROAD

Pedestrian Improvement Options

Forest Avenue, North of Rockridge Road



Pedestrian Improvement Options

Existing Condition Forest Avenue, North of Rockridge Road



Pedestrian Improvement Options

Proposed 4' Sidewalk with Grass Median



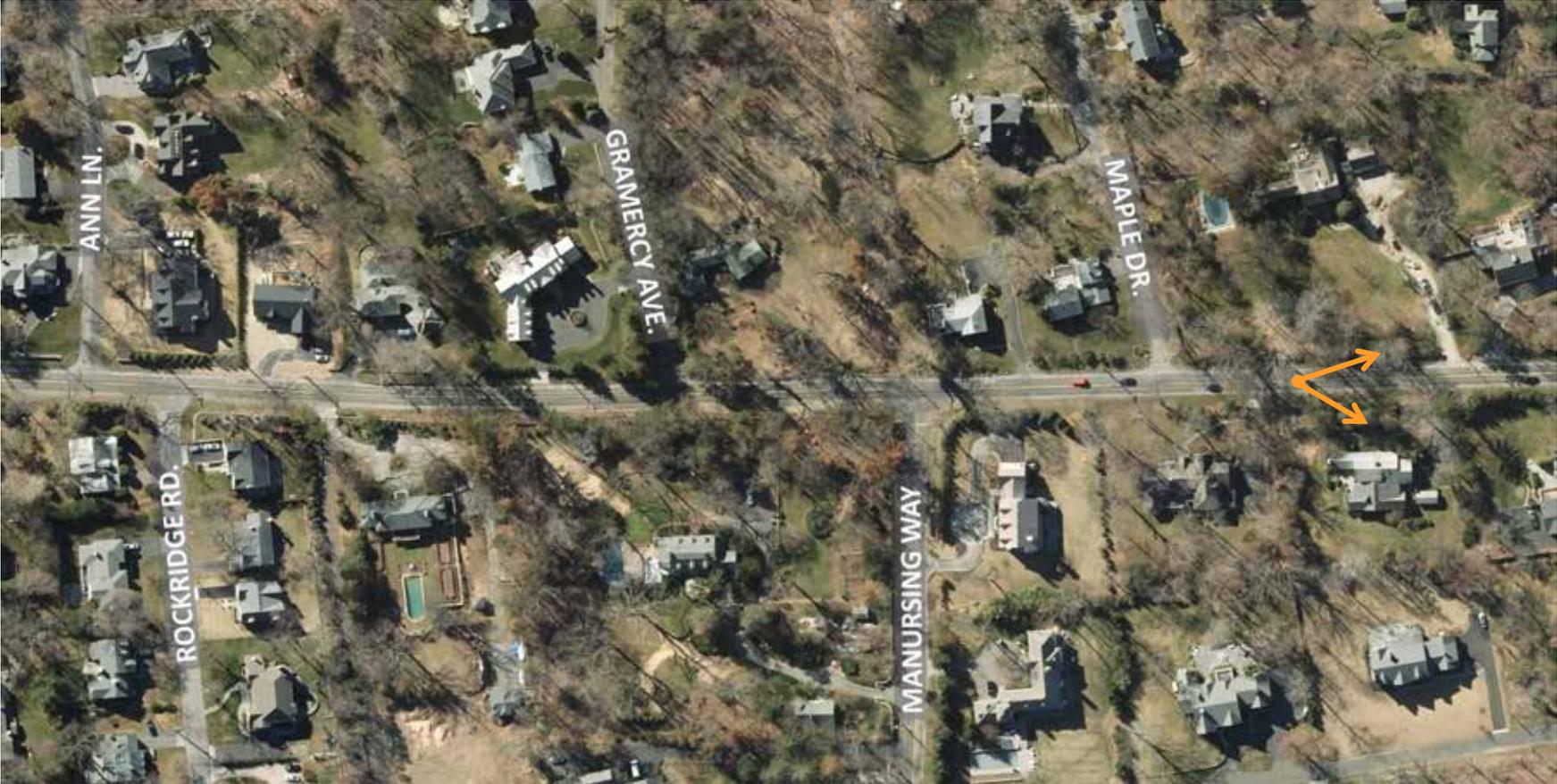
Pedestrian Improvement Options

Proposed 6' Multi-Use Path with Grass Median



Pedestrian Improvement Options

Forest Avenue, North of Maple Drive



Pedestrian Improvement Options

Forest Avenue, North of Maple Drive



Pedestrian Improvement Options

Proposed 4' Sidewalk with Grass Median



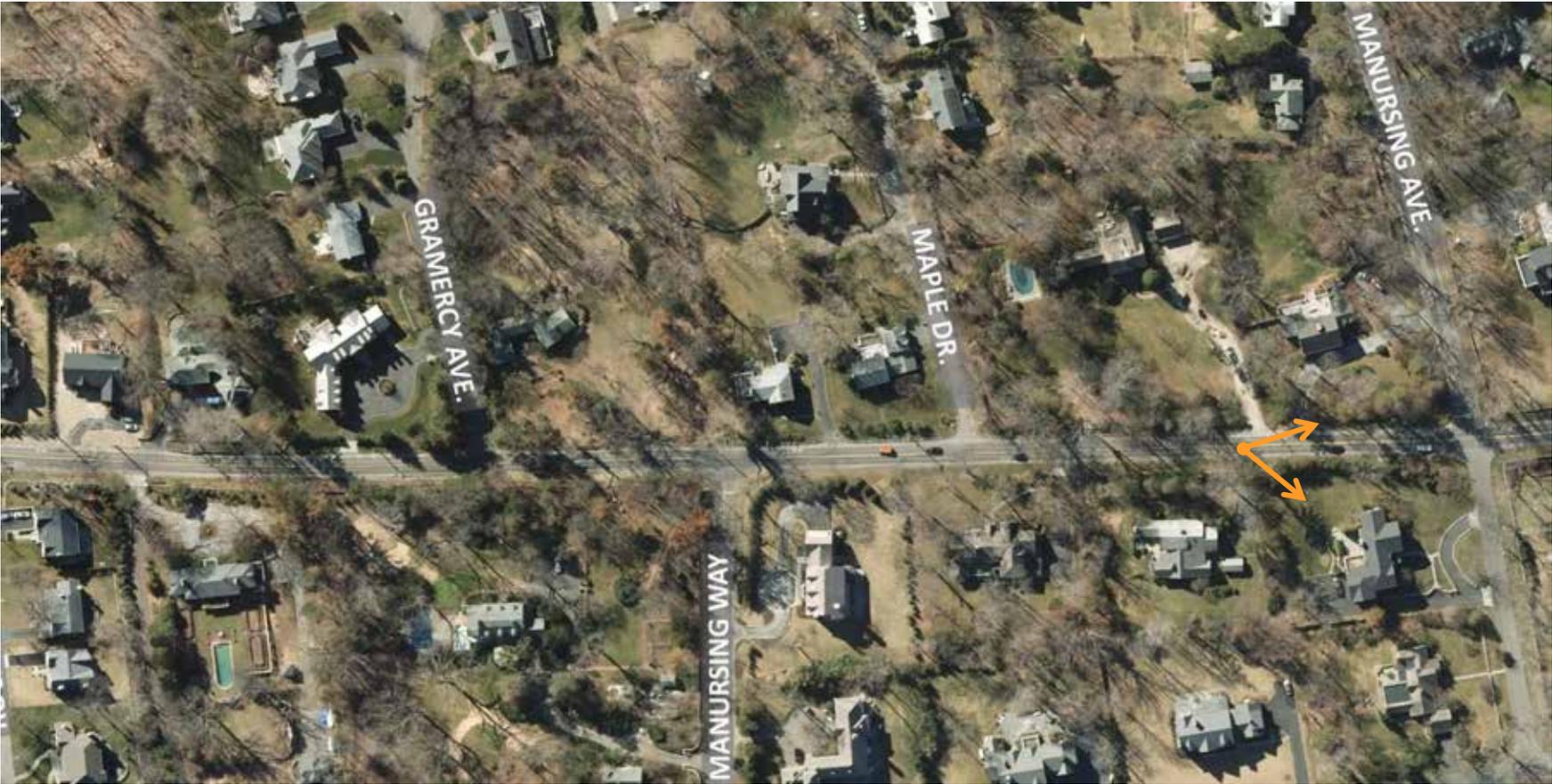
Pedestrian Improvement Options

Proposed 6' Multi-Use Path with Grass Median



Pedestrian Improvement Options

Forest Avenue, North of Maple Drive



Pedestrian Improvement Options

Forest Avenue, North of Maple Drive



Pedestrian Improvement Options

Proposed 4' Sidewalk



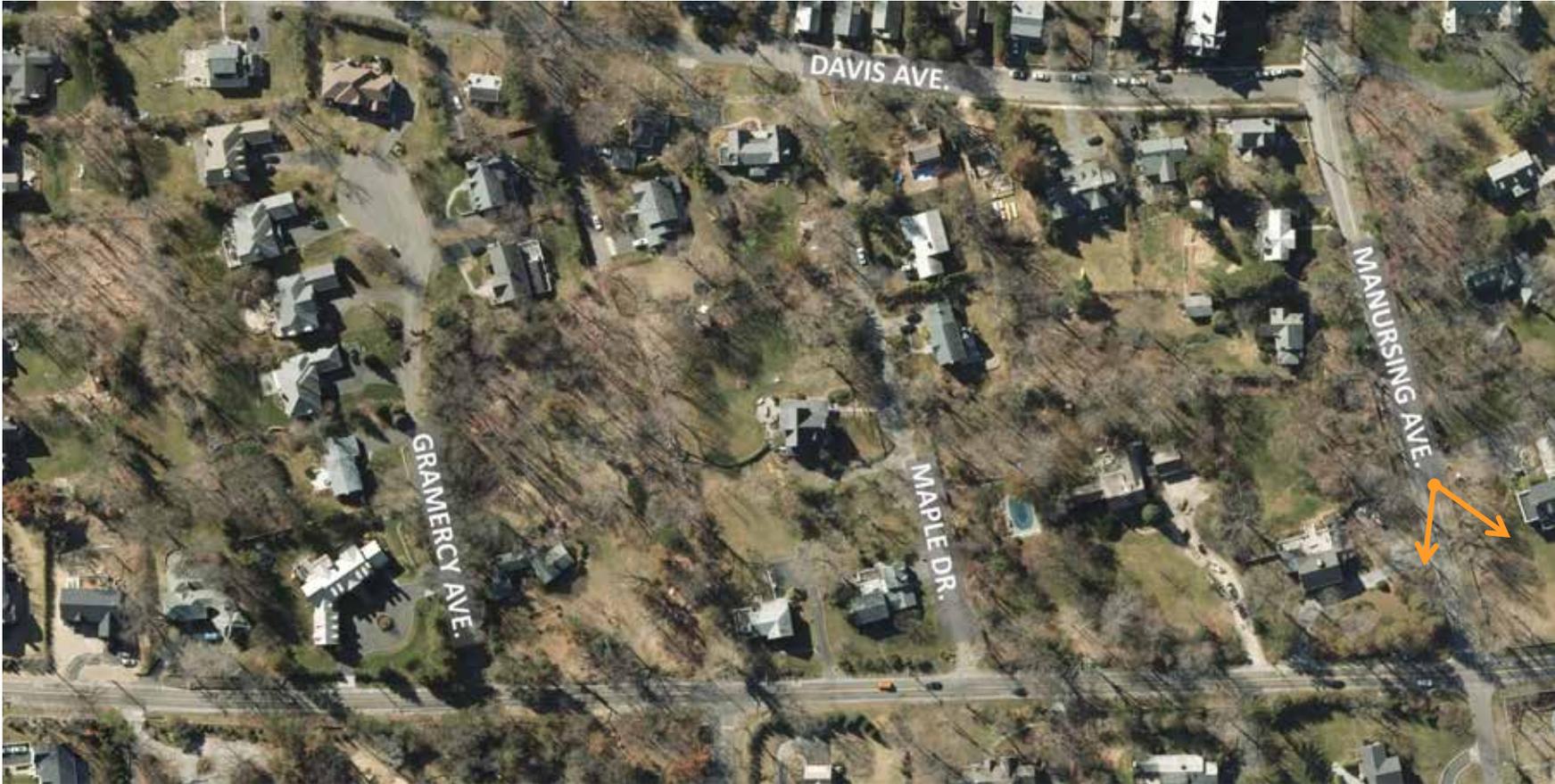
Pedestrian Improvement Options

Proposed 4' Multi-Use Path with Rumble Strip



Pedestrian Improvement Options

Manursing Avenue



Pedestrian Improvement Options

Existing Condition Manursing Avenue



Pedestrian Improvement Options

Proposed 4' Sidewalk with Grass Median



Pedestrian Improvement Options

Proposed 6' Multi-Use Path with Grass Median





FOREST AVENUE / MANURSING AVENUE PEDESTRIAN IMPROVEMENT STUDY

Prepared for:
City of Rye, New York
July 1, 2016

DRAFT



 **Stantec**
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NEW HAVEN, CT 06510-3014



Questions / Discussion

Opinion of Probable Construction Cost

Option A - Sidewalk (Alternating Sides)

Total Project Cost: \$ 1,730,000

Option B - Multi-Use Path (Alternating Sides)

Total Project Cost: \$ 2,030,000

Option C - Sidewalk (East Side Only)

Total Project Cost: \$ 1,470,000

Option D - Multi-Use Path (East Side Only)

Total Project Cost: \$ 1,870,000





FOREST AVENUE / MANURSING AVENUE PEDESTRIAN IMPROVEMENT STUDY



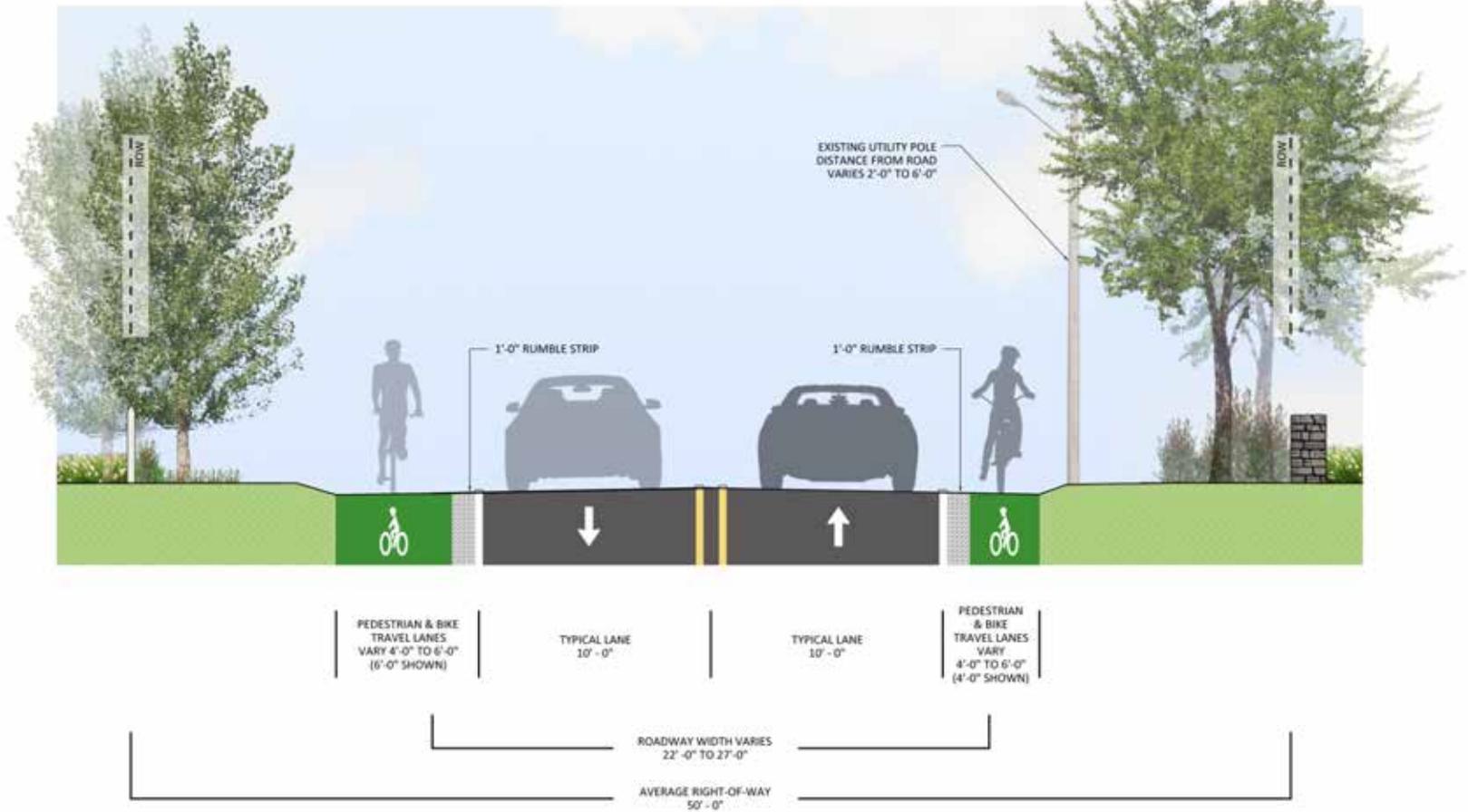




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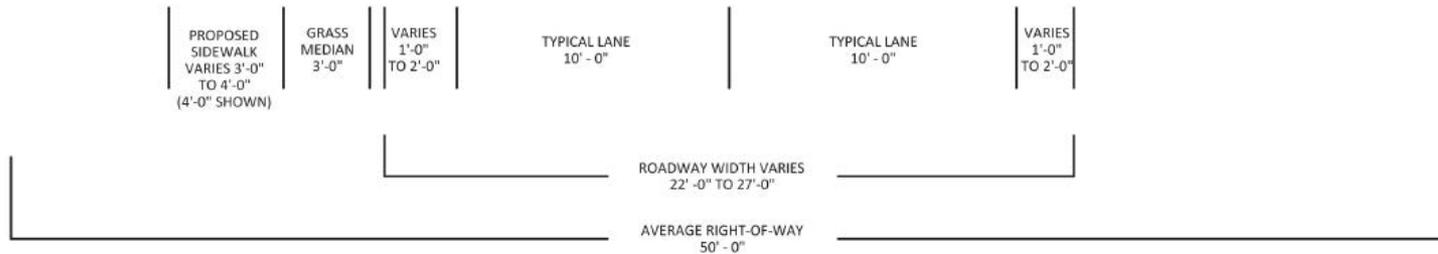
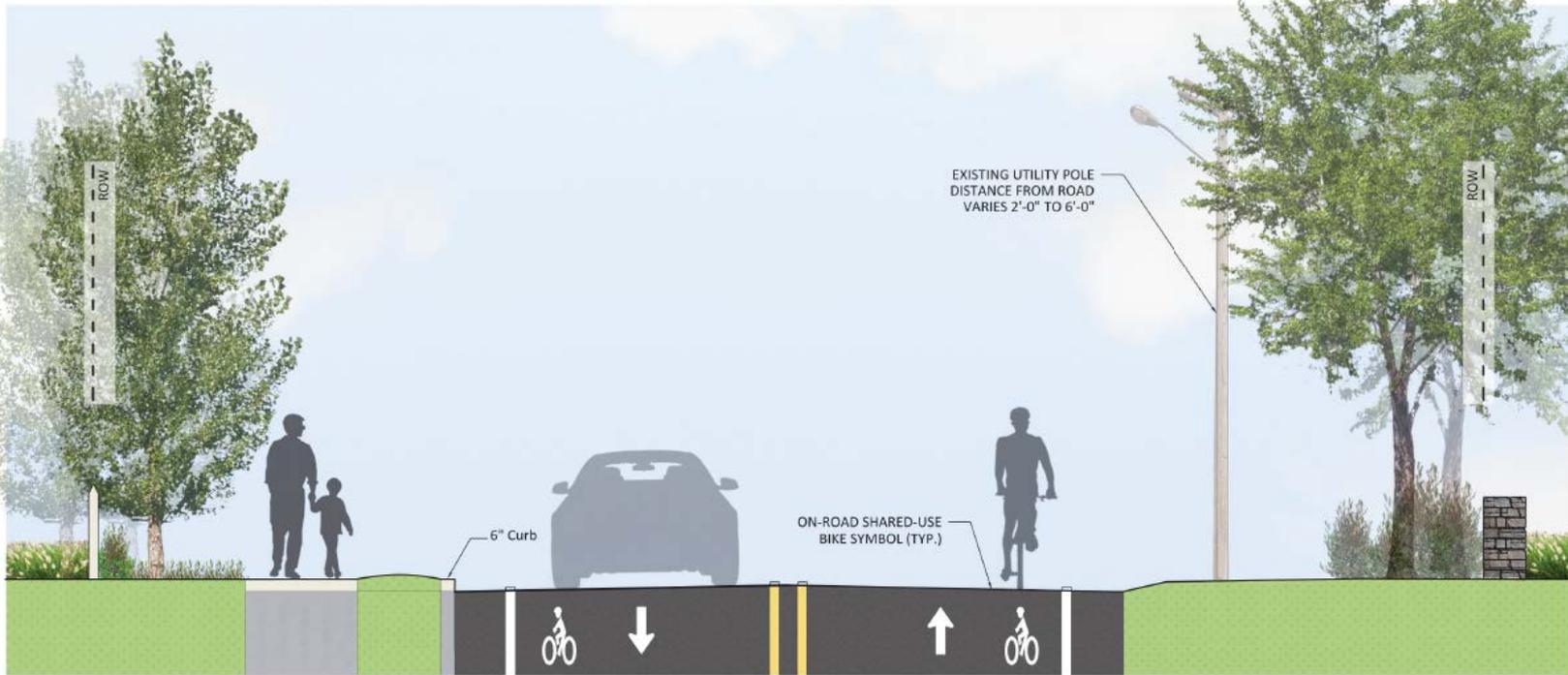




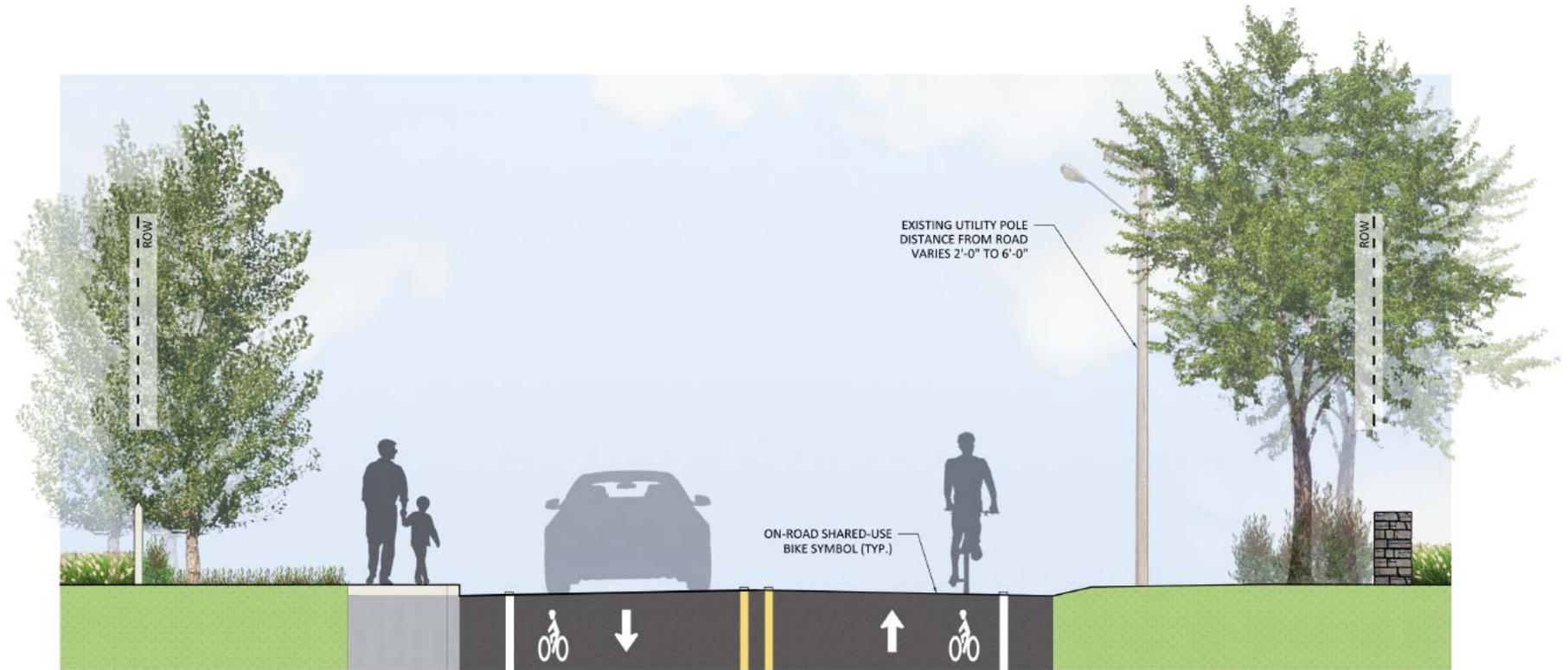


OPTION 4 - ADD MULTI-USE PEDESTRIAN LANES ALONG ROADSIDE

- Bituminous multi-use pedestrian lane within widened roadway shoulder (varies 4' to 6')
- Pedestrian lane has potential to narrow at key pinch points to avoid utility poles and trees
- Some impact expected to existing utilities, retaining walls and vegetation
- Bikes to use off-road multi-use pathway



TYPICAL SIDEWALK WITH GRASS MEDIAN



EXISTING UTILITY POLE
DISTANCE FROM ROAD
VARIES 2'-0" TO 6'-0"

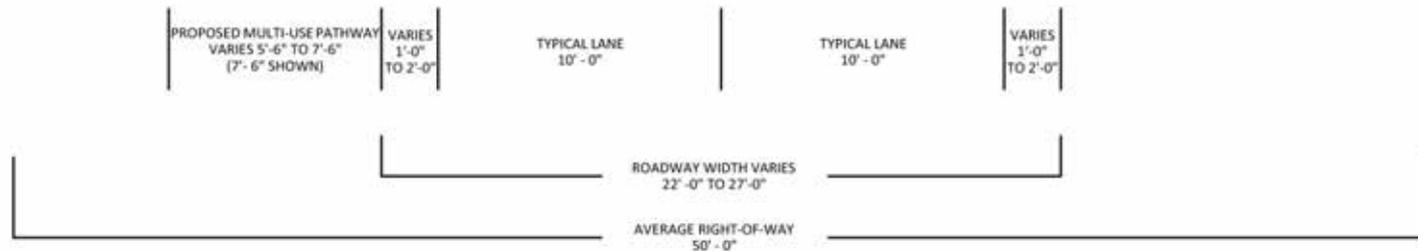
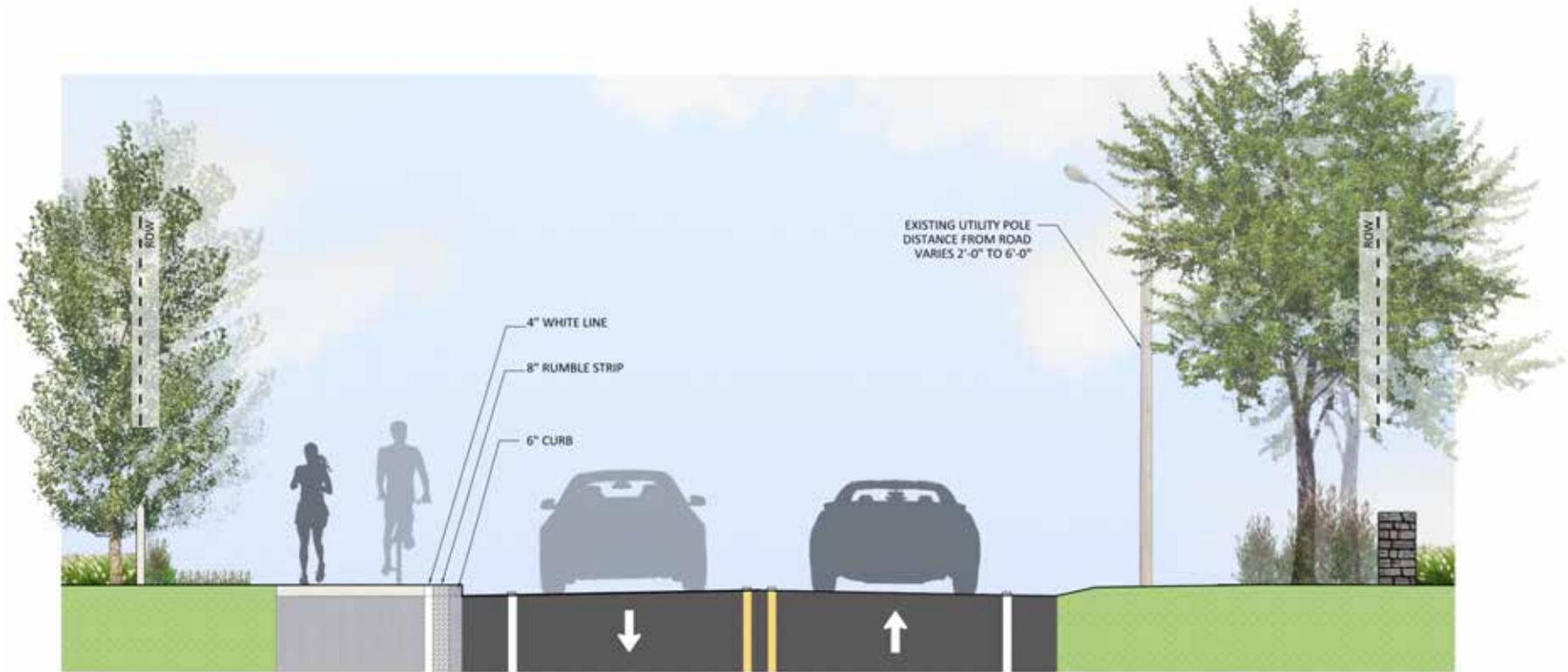
ON-ROAD SHARED-USE
BIKE SYMBOL (TYP.)

PROPOSED SIDEWALK VARIES 3'-0" TO 4'-0" (4'-0" SHOWN)	VARIES 1'-0" TO 2'-0"	TYPICAL LANE 10' - 0"	TYPICAL LANE 10' - 0"	VARIES 1'-0" TO 2'-0"
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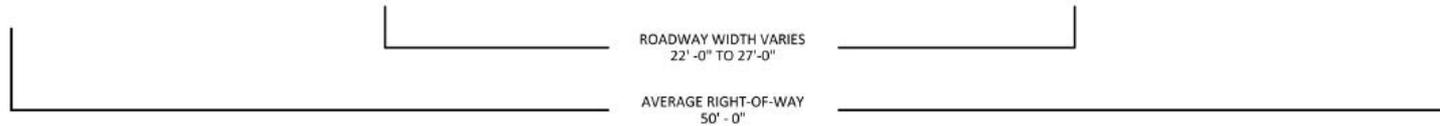
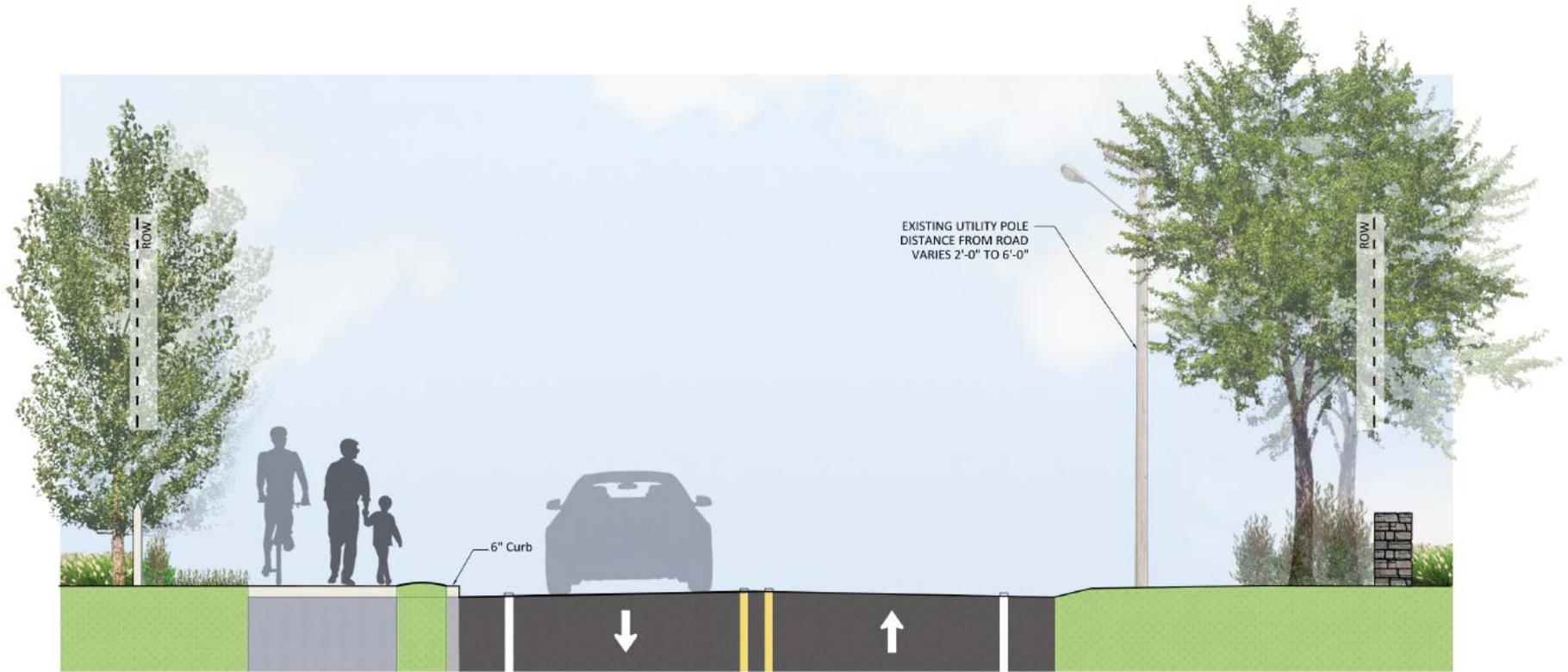
ROADWAY WIDTH VARIES
22' - 0" TO 27' - 0"

AVERAGE RIGHT-OF-WAY
50' - 0"

TYPICAL SIDEWALK WITHOUT GRASS MEDIAN



TYPICAL OFF-ROAD MULTI-USE PATH WITH RUMBLE STRIP

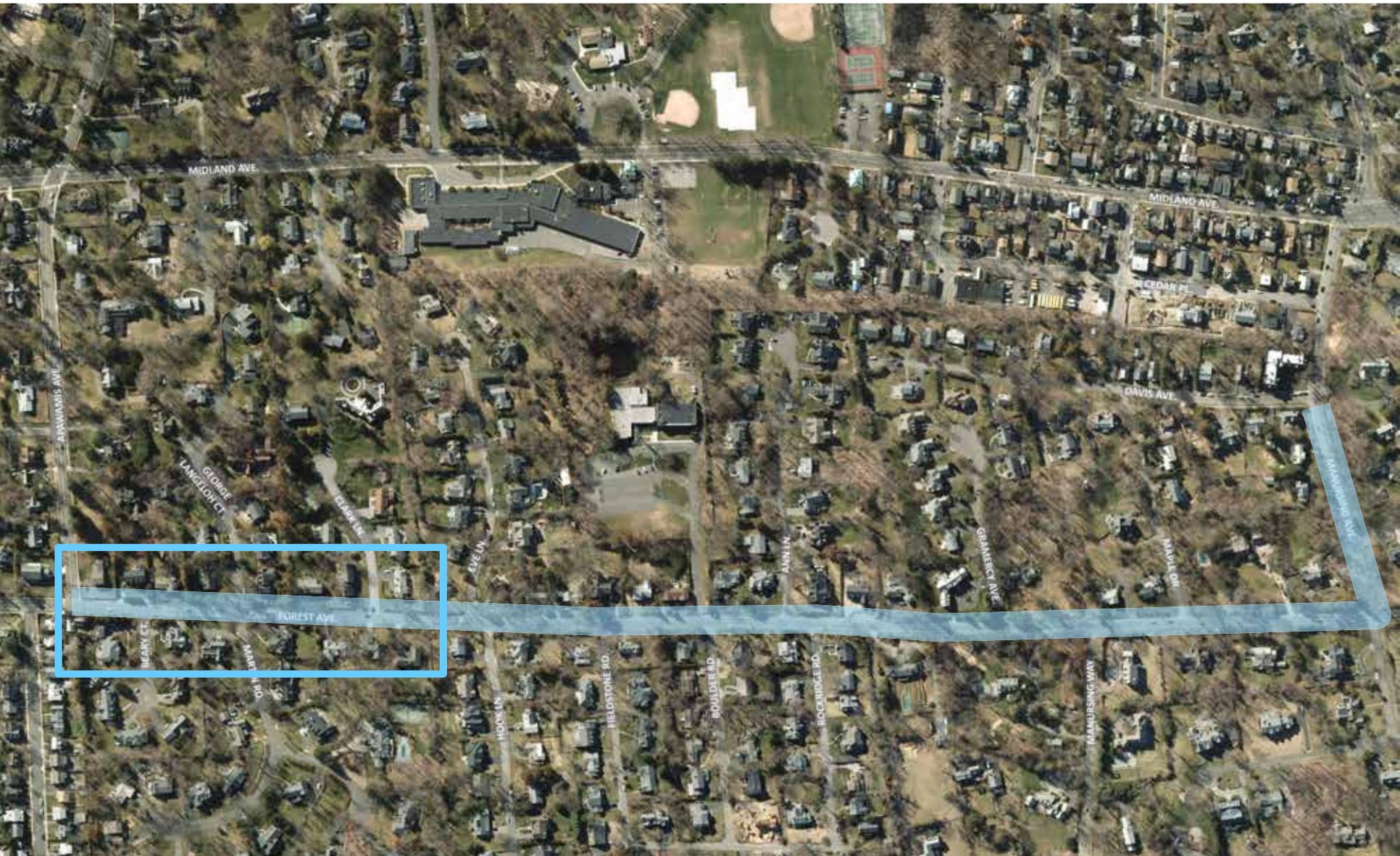


TYPICAL OFF-ROAD MULTI-USE PATH WITH GRASS MEDIAN



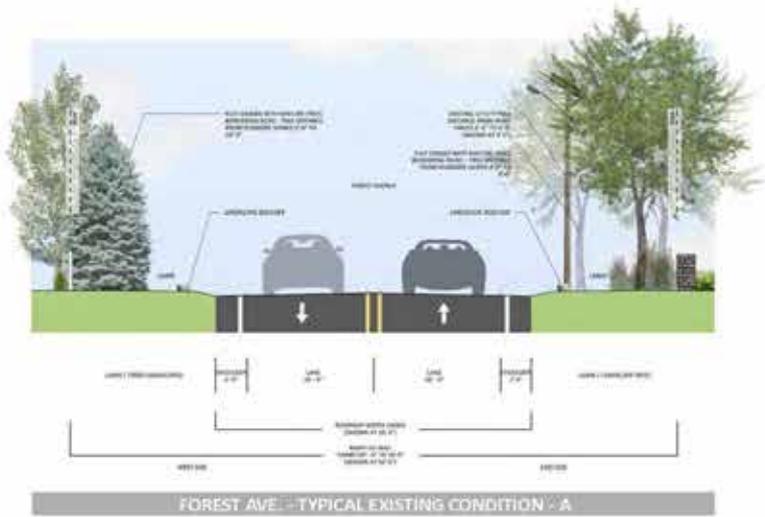
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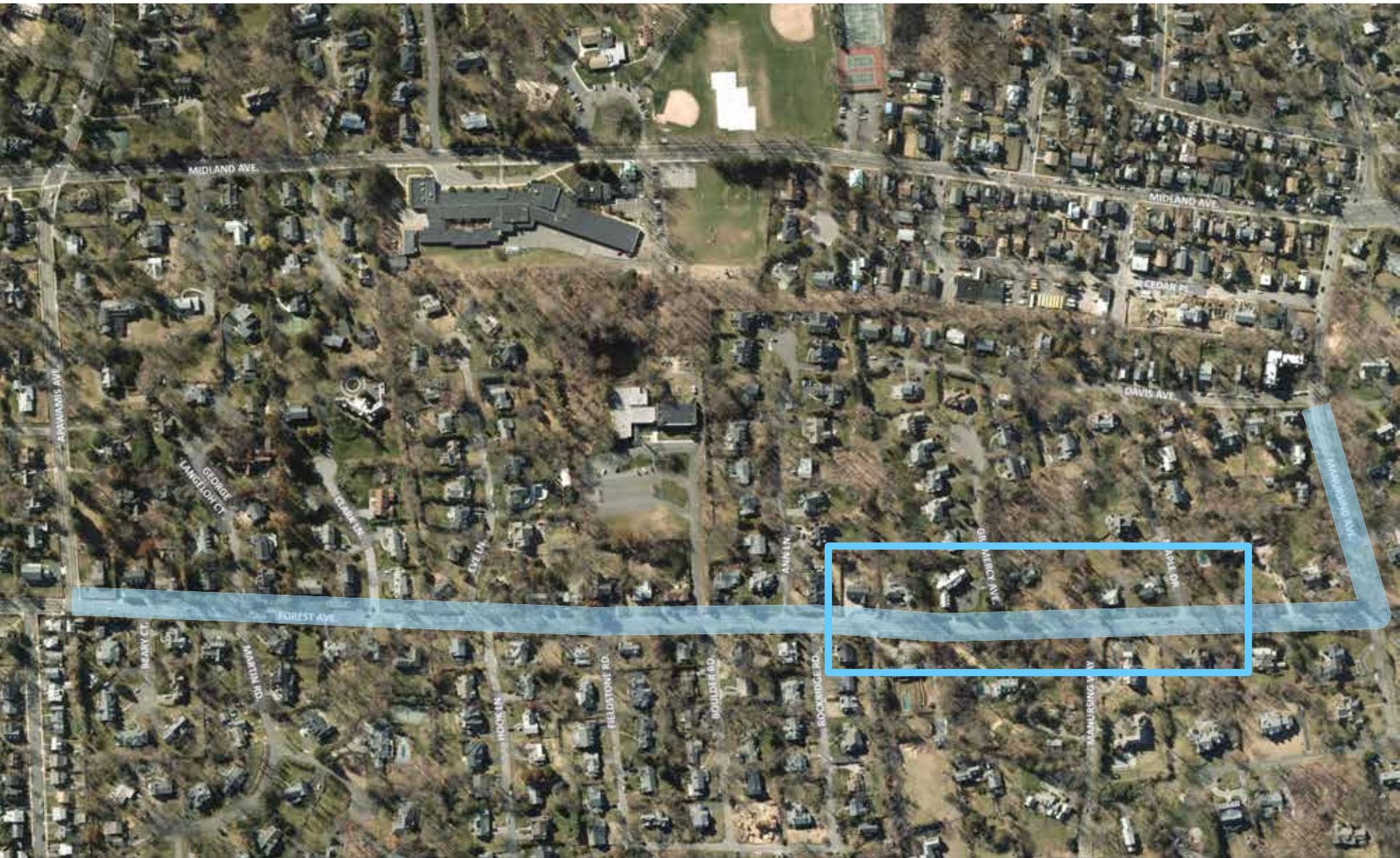
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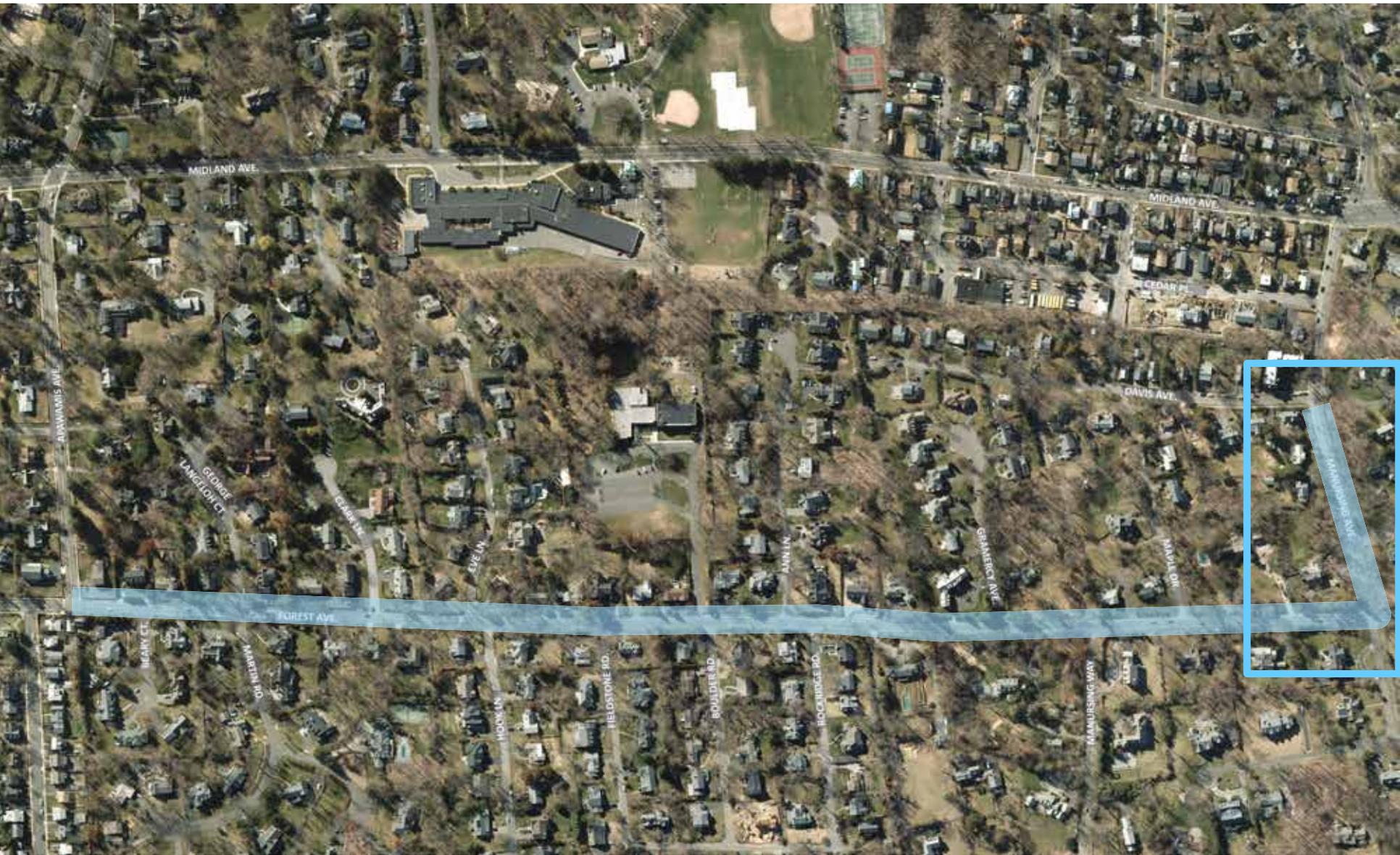
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