

North Main Street Goold Street to Melvin Avenue Racine County



Location Map

Existing and Future Traffic Volumes



AAADT = Average Annual Daily Traffic

Growth Rate = 0%

Intersection and Segment Crash Rates 2016-2020

Crash rates at intersections are measured in crashes per Million Entering Vehicles (MEV). Crash rates above 1.5 MEV warrant watching for safety improvements.



Segment Crash Rate = **312 HMVMT**
10 % Below Statewide Average

Segment Crash Rate Excluding
 Signalized Intersections = **74 HMVMT**
78 % Below Statewide Average

HMVMT = Hundred Million Vehicle Miles Traveled

Traffic Operations



Congestion is measured by Levels of Service (LOS). The LOS ranges from A (very good) to F (very poor) and is based on seconds of average delay of all vehicles in the queue at a stop sign or signal. The thresholds are lower for stop signs because drivers are actively looking for gaps in traffic. Typically, LOS D is established as the minimum acceptable operations for an urban arterial.

LOS	Typical Roadway Conditions	Signal Delay (Sec)	Stop Signs Delay (sec)
LOS A	Primarily free-flow operations. Control delay at intersections is minimal	< 10	<10
LOS B	Ability to maneuver in traffic is slightly restricted. Delay at intersections is not significant.	10 to 20	10 to 15
LOS C	Stable operations with ability to maneuver in traffic being restricted. Delay at intersection may contribute to congestion.	> 20 to 35	>15 to 25
LOS D	Small increase in traffic volumes may cause substantial increase in delay. Congestion at intersections is apparent.	>35 to 55	>25 to 35
LOS E	Significant delay and poor travel speeds can be expected. Intersections experience significant delay and queuing.	>55 to 80	>35 to 50
LOS F	Delays are at unacceptable levels for most drivers. Roadway network capacity has been exceeded.	>80	>50

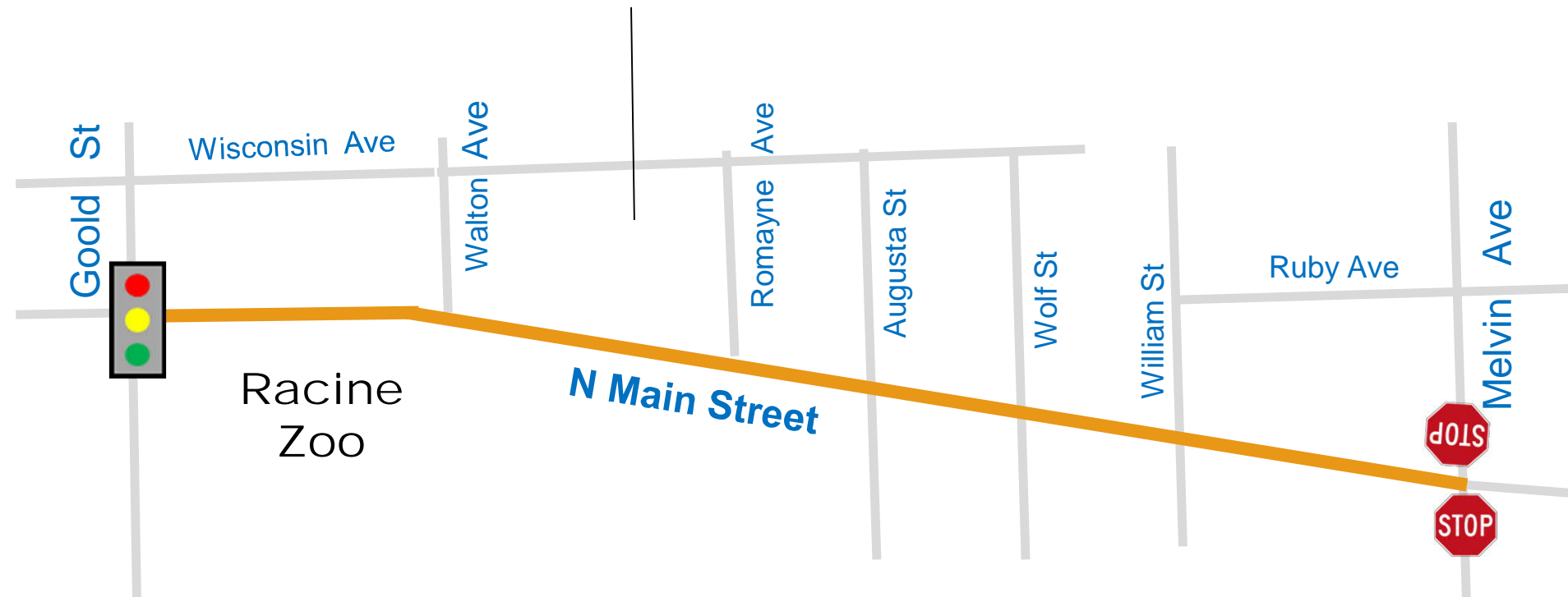


2045 AM/PM Traffic Operations



Future No-Build 4-Lane Roadway		
Intersection	AM Peak	PM Peak
Main Street & Goold Street	A	A
Main Street & Melvin Avenue	B	B

Future Build 2-Lane Roadway		
Intersection	AM Peak	PM Peak
Main Street & Goold Street	B	B
Main Street & Melvin Avenue	C	C



Existing and Future Lane Configuration



Existing

4-lanes No Bike Accommodation and Parking during Non-Peak Hours on Both Sides

4-lanes No Bike Accommodation and Parking during Non-Peak Hours on Both Sides

NB 1-In am
2-In pm
SB 2-In am
1-In pm

Goold St

Wisconsin Ave

Walton Ave

Romayne Ave

Augusta St

Wolf St

William St

Ruby Ave

Melvin Ave



Racine Zoo

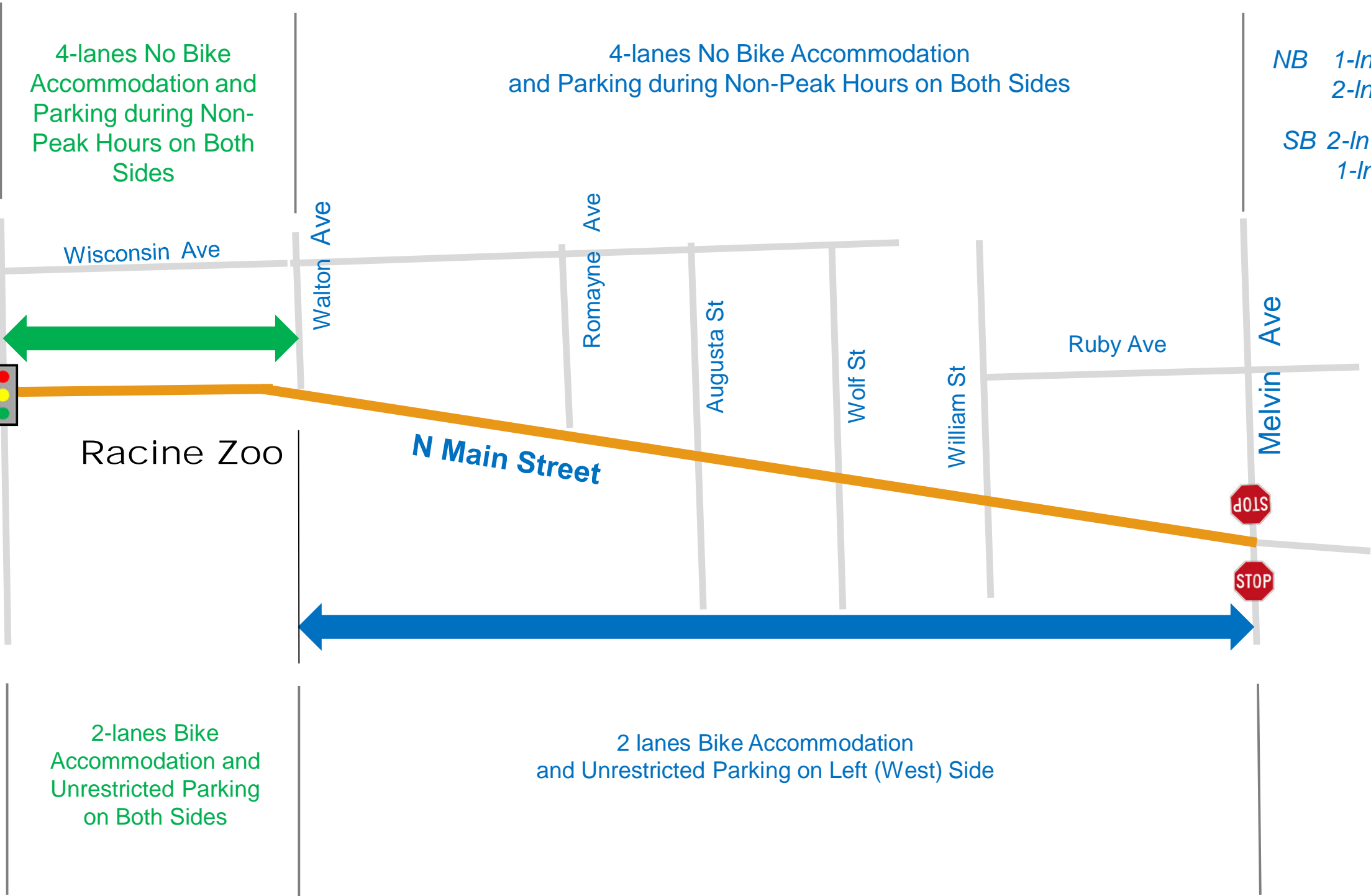
N Main Street



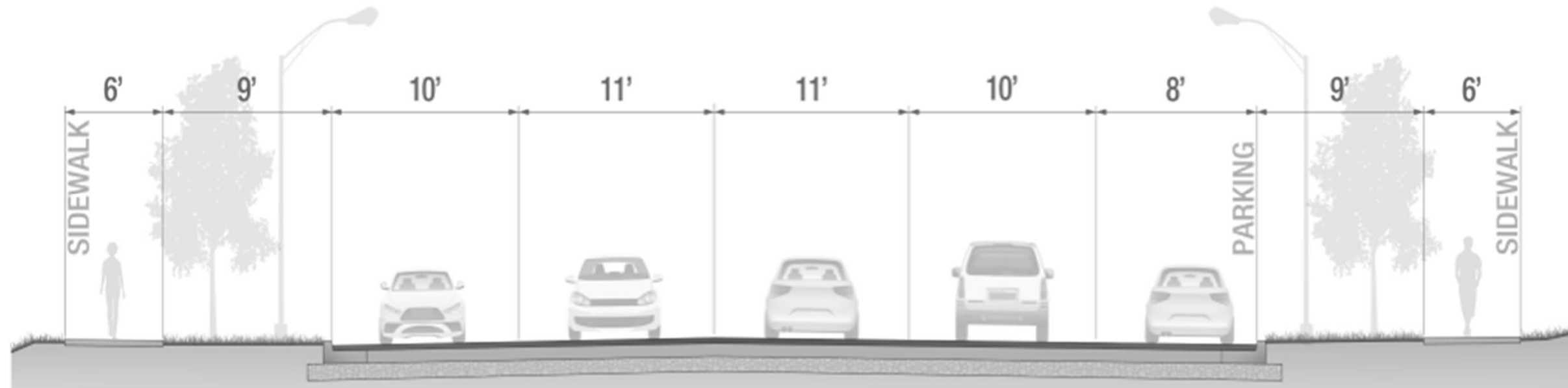
Proposed

2-lanes Bike Accommodation and Unrestricted Parking on Both Sides

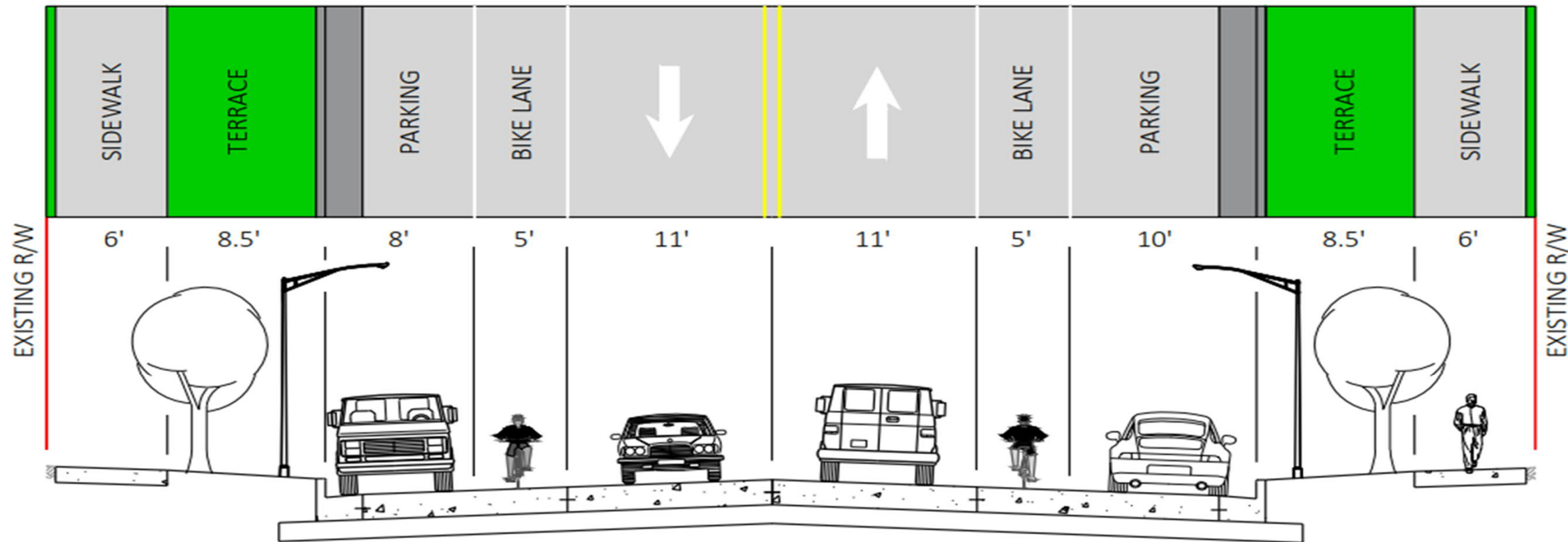
2 lanes Bike Accommodation and Unrestricted Parking on Left (West) Side



Typical Sections: Goold St to Walton Ave

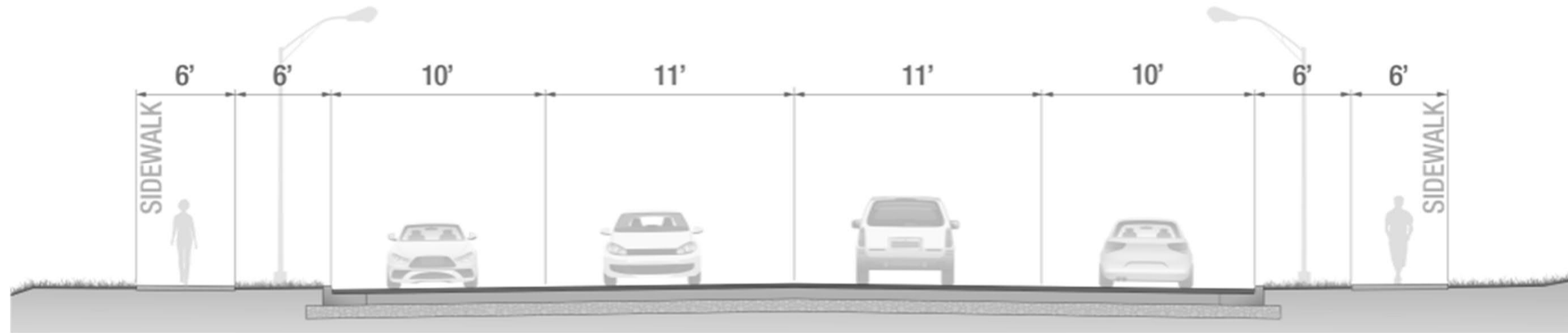


Existing

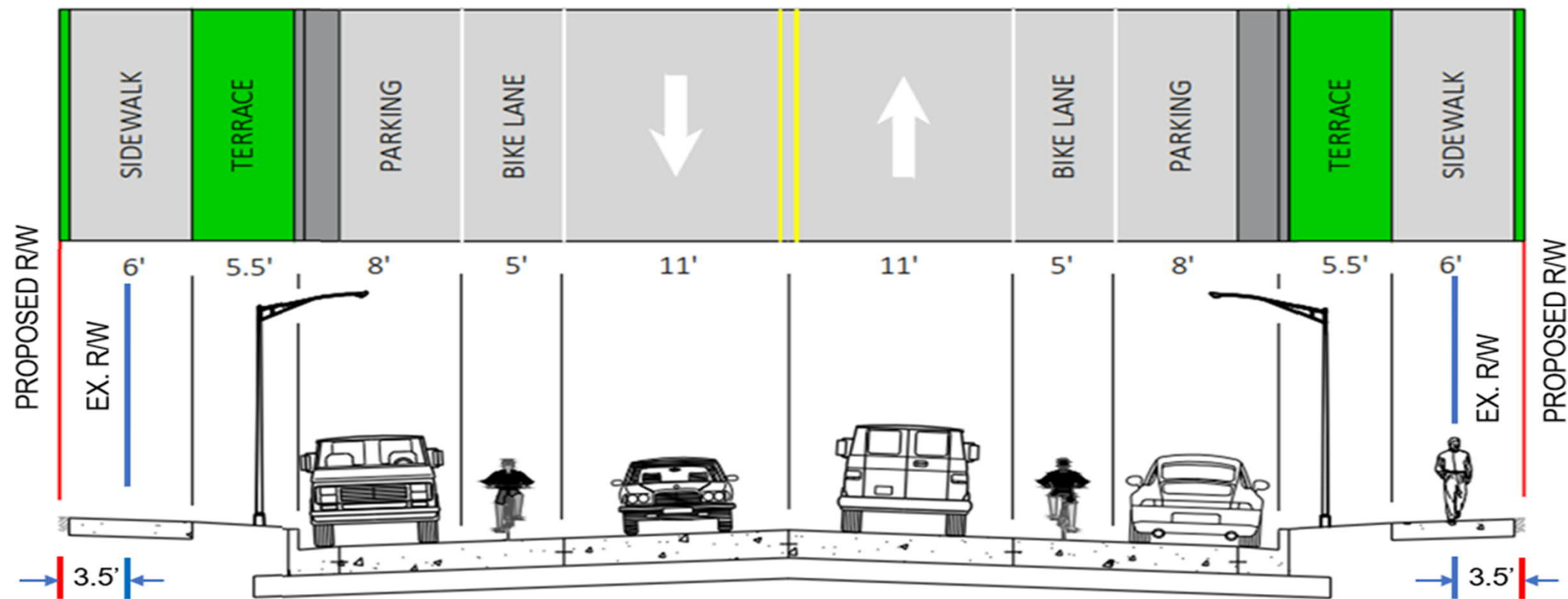


Proposed

Typical Sections: Walton Ave to Melvin Ave



Existing



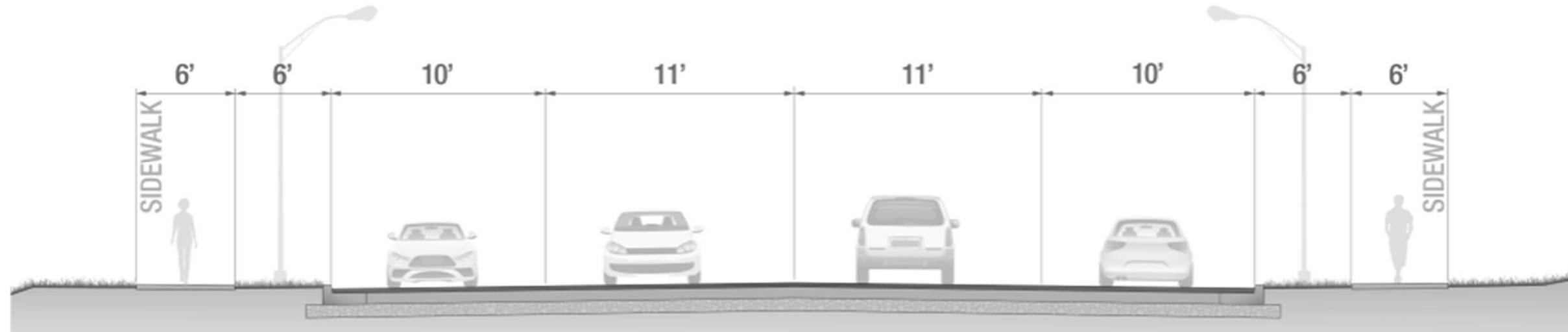
Proposed

Alternative 1

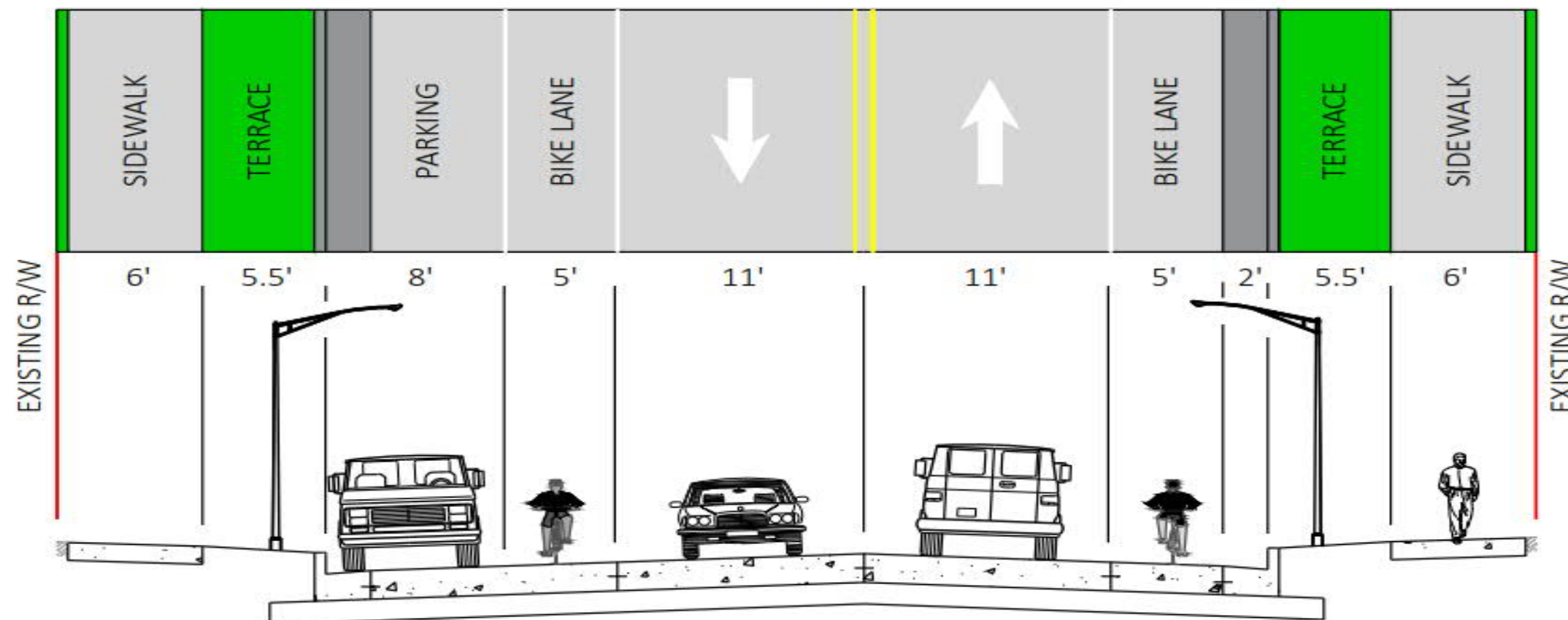
Project ID 2703-09-01 North Main Street



Typical Sections: Walton Ave to Melvin Ave



Existing



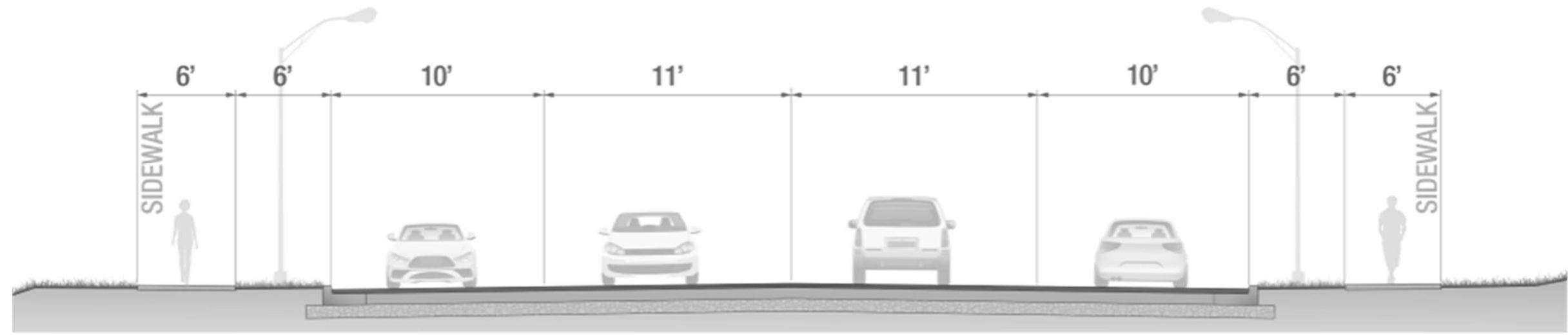
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Alternative 2

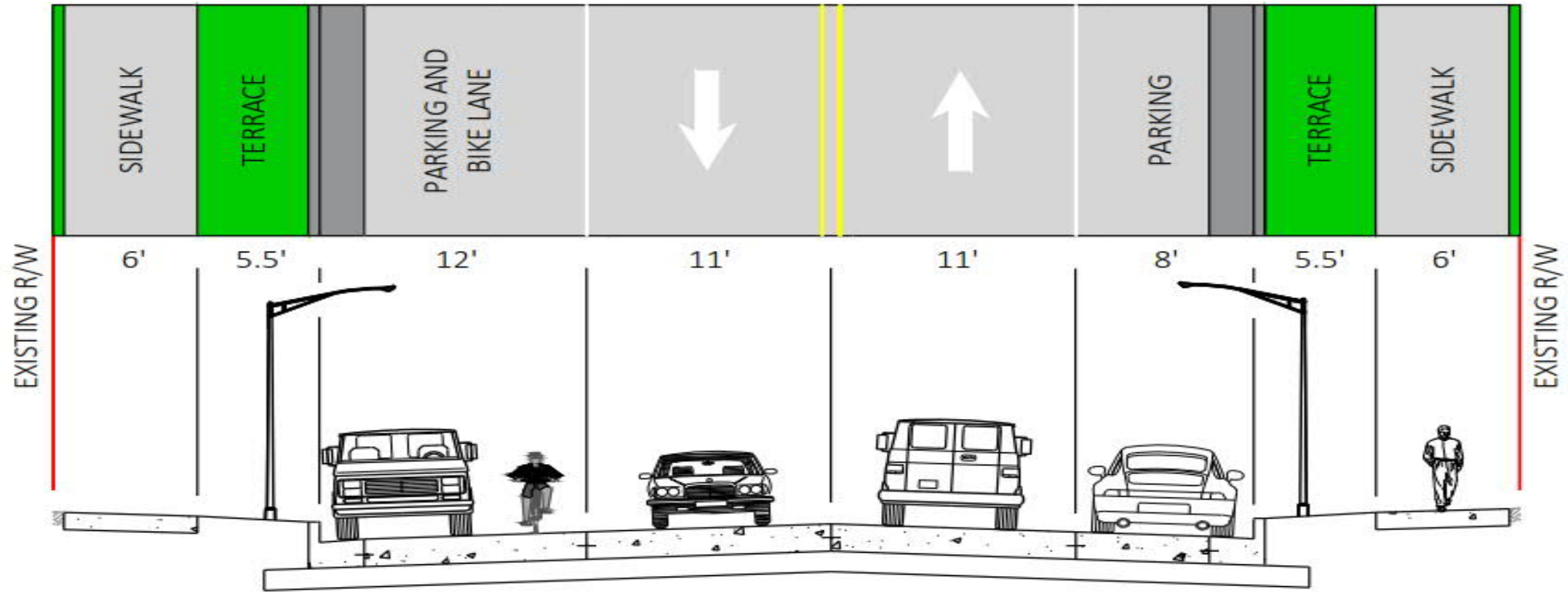
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Typical Sections: Augusta Ave to Melvin Ave



Existing



Proposed

Alternative 2 Modified

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