



City of Cambridge Community Development Department Transit Advisory Committee

October 2021





Welcome

Purpose

- Get feedback from appointed members of the TAC, the City’s “community experts”, on City projects, MBTA initiatives, and development proposals

Objective

- Discussion on presentations in meetings and review of materials at Planning Board, MBTA website, etc.

Process

- Presentation from City or MBTA staff followed by discussion - questions from TAC members, public to type in questions in zoom Q&A, comments during public comment period

Huron Avenue
Aberdeen Avenue & Fresh Pond Pkwy

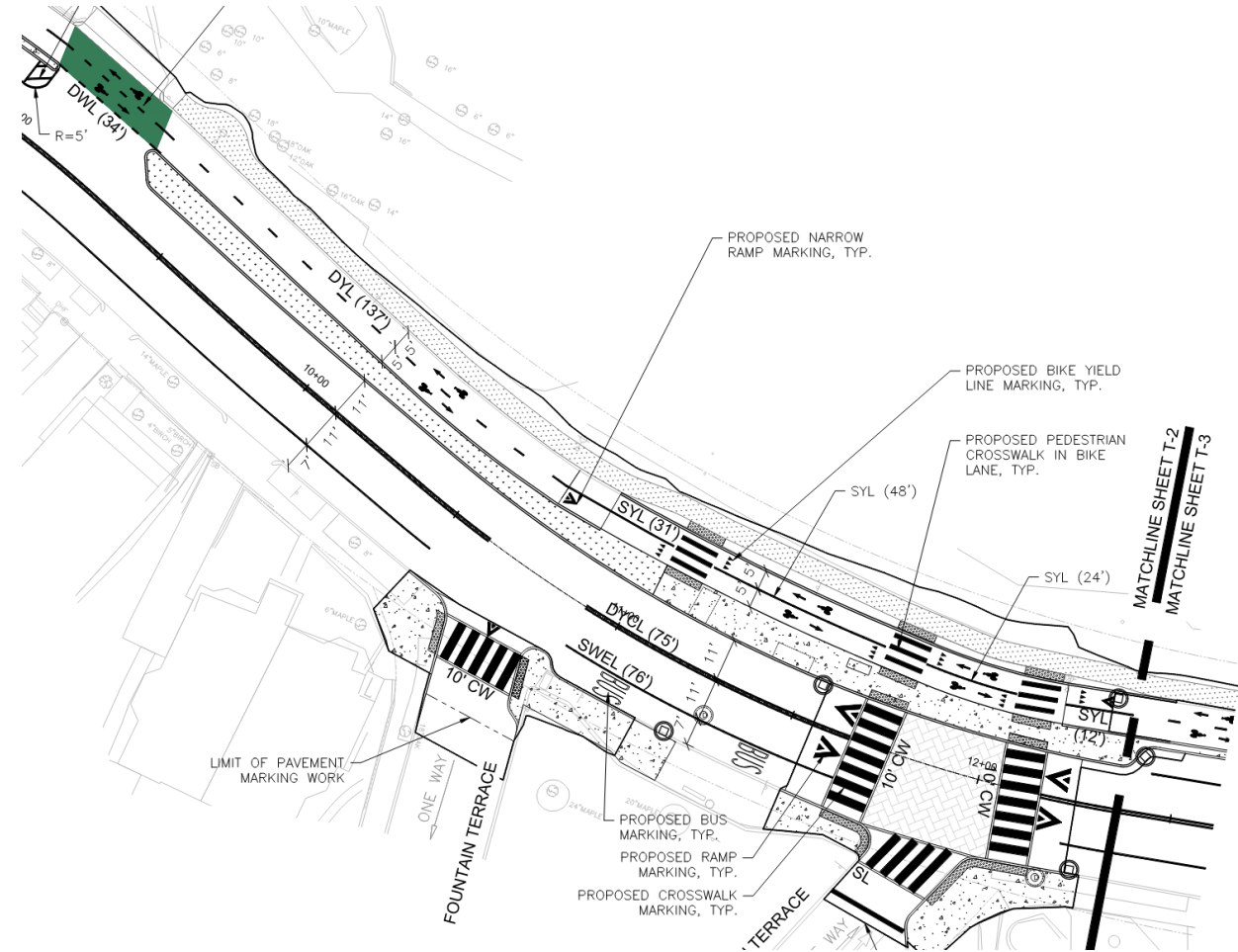
October 6, 2021

Design Objectives

- Provide two-way separated bike lanes along Huron Avenue
- Enhance corridor bus stops
- Reduce bus delay along Huron Avenue through the Aberdeen Avenue and Fresh Pond Parkway intersections
 - Eastbound in the AM Peak
- Provide two-way to one-way bicycle connection at Fresh Pond Parkway

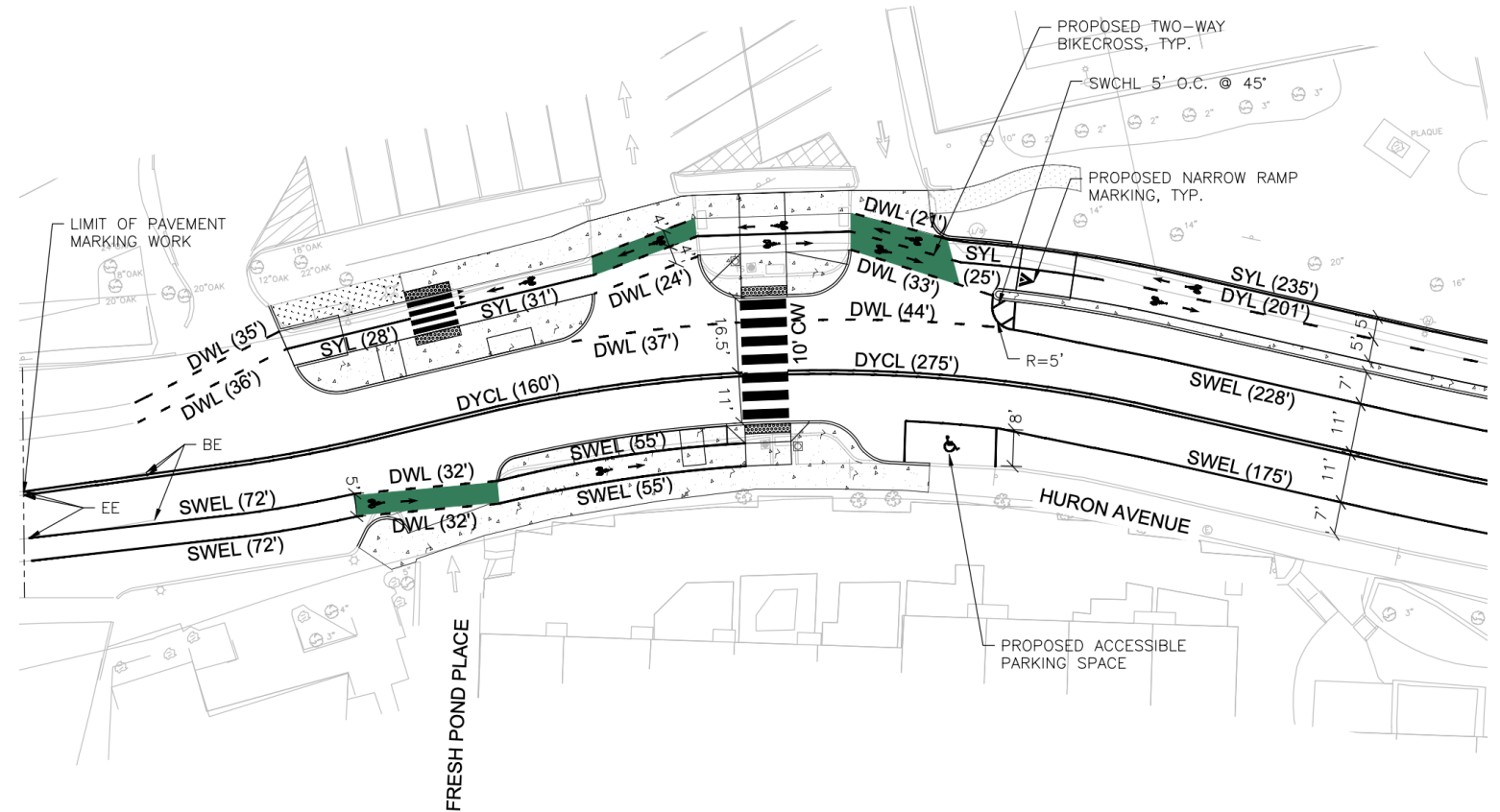
Corridor-wide Transit Modifications

- Provide 11-foot travel lanes per MBTA request
- Enhance bus stops with benches (where feasible)
- Provide crosswalks at all bus stops



Corridor-wide Transit Modifications

- In lane bus stop



Huron Avenue at Aberdeen Avenue

- Existing signal operations
 - Pre-timed
 - Same timing in AM and PM Peak Hours
 - Pedestrian movements protected
 - Pedestrian phases come on every cycle



Huron Avenue at Aberdeen Avenue

- Alternatives considered
 - Optimize timing during AM Peak Hour
 - Add 10 seconds of green time for Huron through movement (41% increase)
 - Reduces eastbound delay by 150 seconds
 - Change westbound left turn phase & pedestrian phase to actuated
 - Not proposed due to minimal delay improvement
 - Install eastbound bus queue jump
 - Not feasible due to heavy right turns
 - Would require removing protection for pedestrians crossing Aberdeen Ave



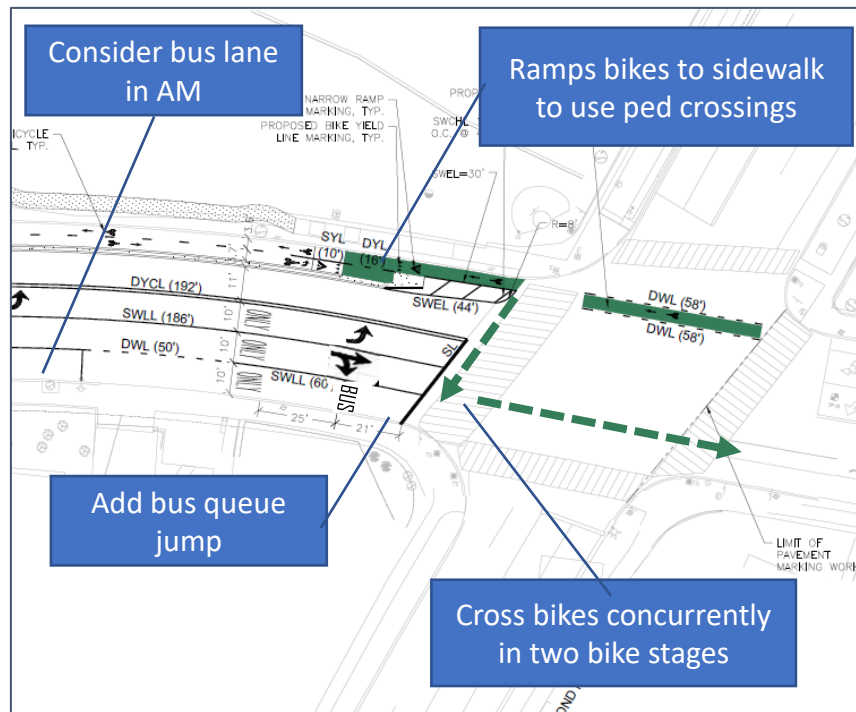
Huron Avenue at Fresh Pond Parkway

- Existing signal operations
 - Pre-timed
 - Operated and maintained by DCR
 - Exclusive pedestrian phase (button activated)

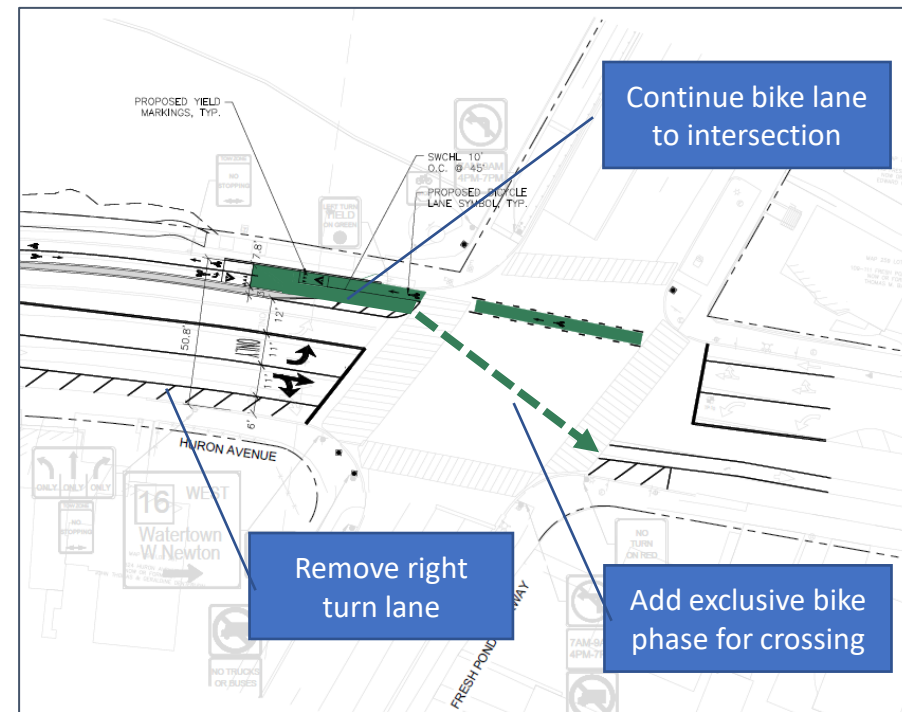


Huron Avenue at Fresh Pond Parkway

- Goal: Add bicycle crossing and reduce bus delay



Alternative 1: Eastbound Queue Jump



Alternative 2: Exclusive Bike Crossing

Huron Avenue at Fresh Pond Parkway

- Alternatives considered
 1. Add short bus queue jump
 - High volume of right turning vehicles in morning peak period
 - Buses wouldn't be able to access the queue jump
 - Narrow parking lane between Aberdeen and Fresh Pond
 2. Extend bike facility to intersection and add diagonal bike crossing, remove right turn lane, and change pedestrian phase to run concurrently with vehicle movements
 - Requires right turn removal to accommodate turning trucks
 - Diagonal crossing cannot move at the same time as Huron Ave crosswalks

Huron Avenue at Fresh Pond Parkway

- Results:
 - Both alternatives exceed capacity for the intersection
 - Both alternatives could cause eastbound queues to spill back to Aberdeen Avenue
 - No receiving bus lane on far side of Fresh Pond Parkway

Thank you!



Thank you for participating in this Transit
Advisory Committee meeting.

Stay healthy and well.

Thank You