

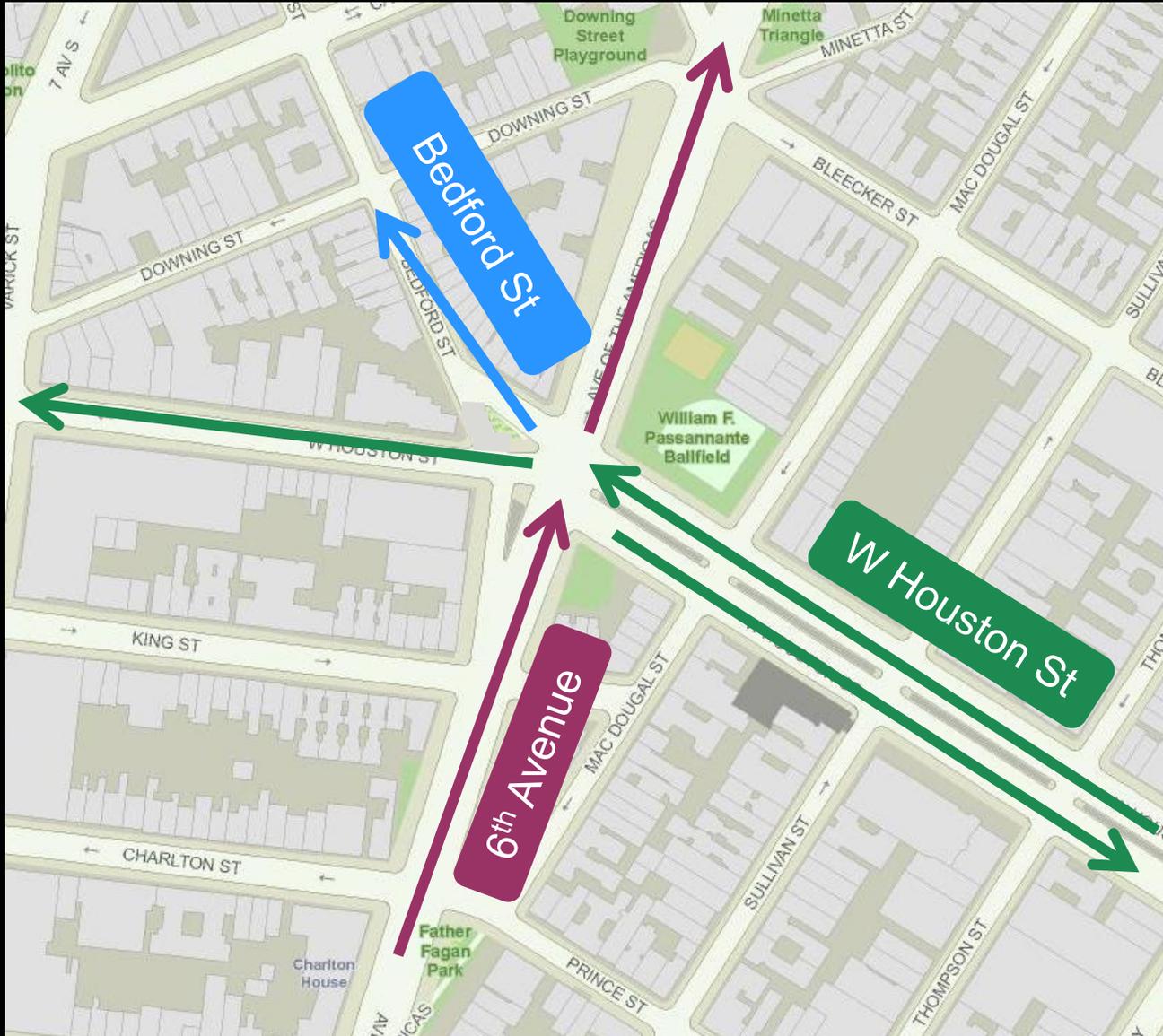
6th Ave and Houston St

Intersection Safety Improvements

2013



Project Area



Existing Issues

- Heavy pedestrian crossing volumes
- Long crossings
- Poor visibility/yielding
- Heavy turning volumes
- Difficult to predict vehicle movements



Goals

- Heavy pedestrian crossing volumes → • Improve pedestrian visibility
- Long E/W crossings → • Shorten crossing distances
- Poor visibility/failure to yield → • Separate vehicles and pedestrians
- Heavy w/b turning volumes → • Maintain w/b throughput
- Difficult to predict vehicle movements → • Clarify w/b through and n/b right turn movements

Existing Aerial



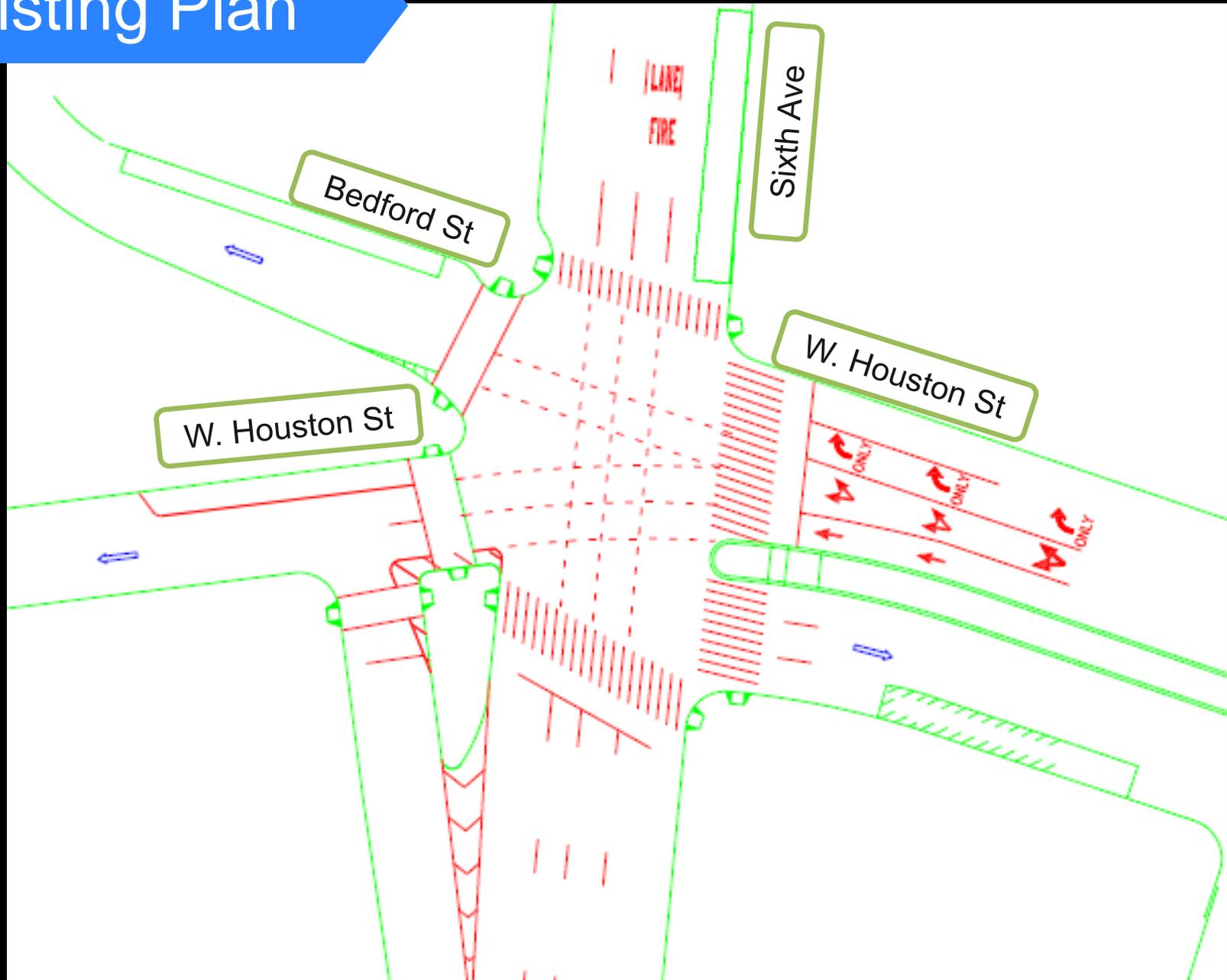
Bedford St

Sixth Ave

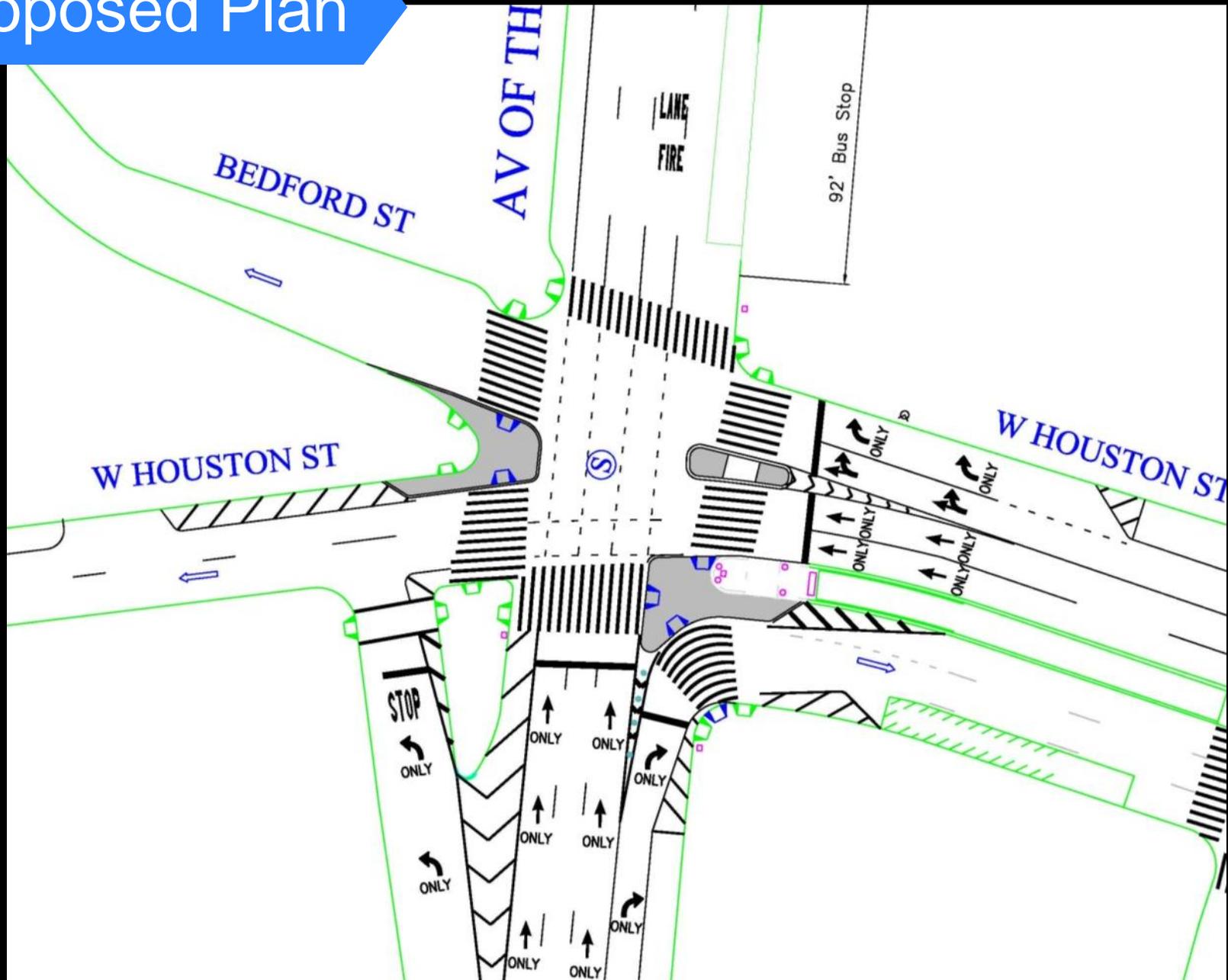
W. Houston St

W. Houston St

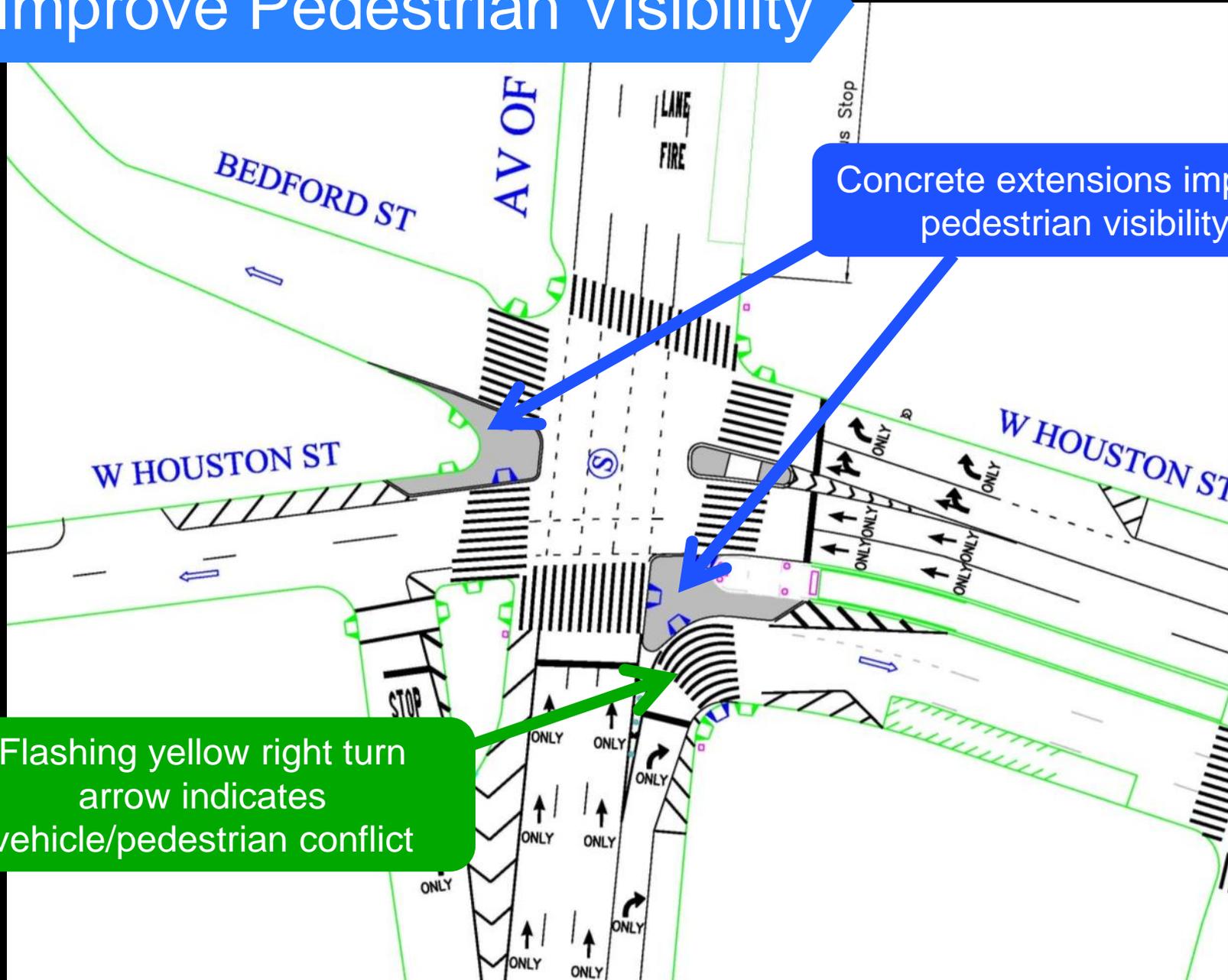
Existing Plan



Proposed Plan



1. Improve Pedestrian Visibility



Concrete extensions improve pedestrian visibility

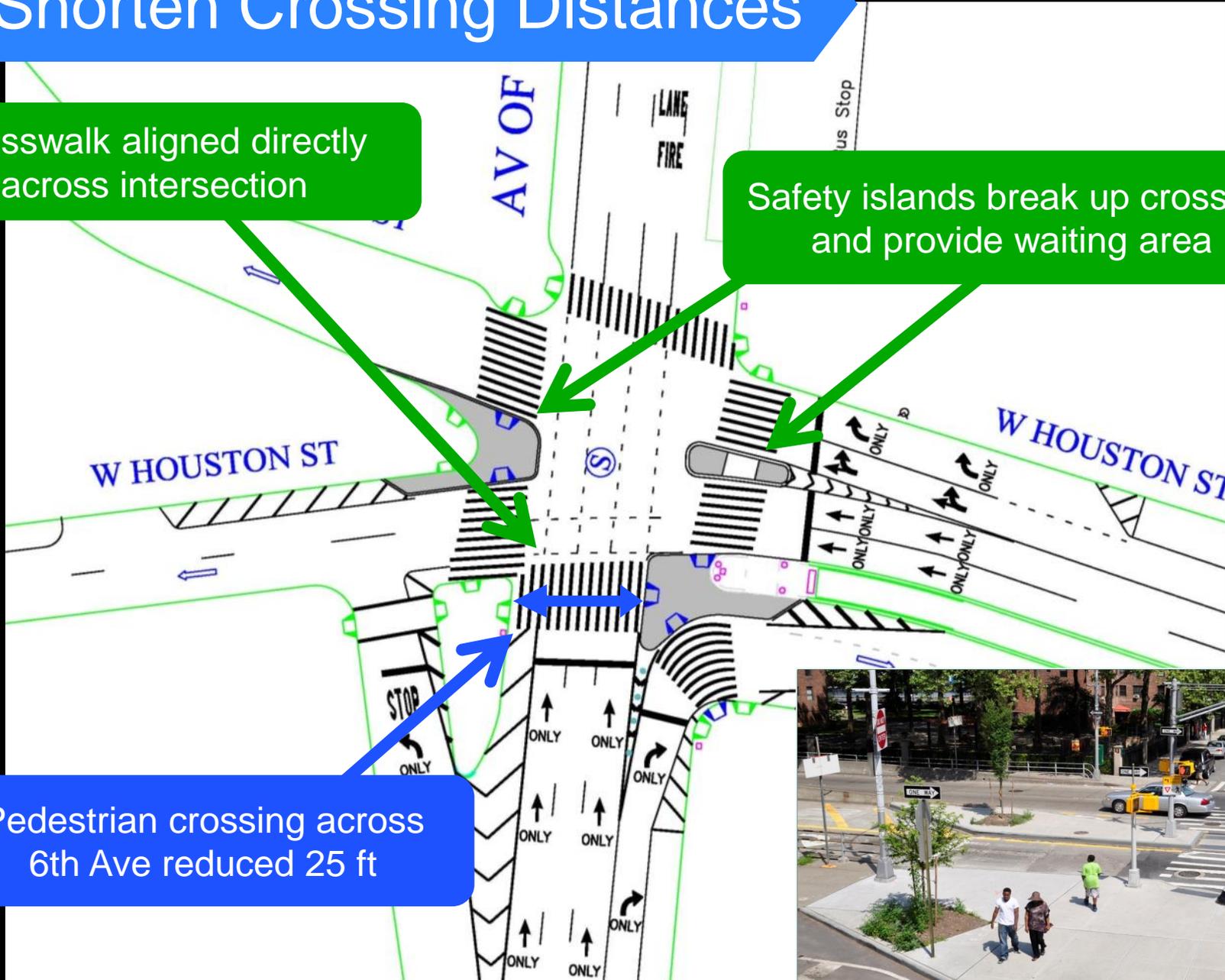
Flashing yellow right turn arrow indicates vehicle/pedestrian conflict

2. Shorten Crossing Distances

Crosswalk aligned directly across intersection

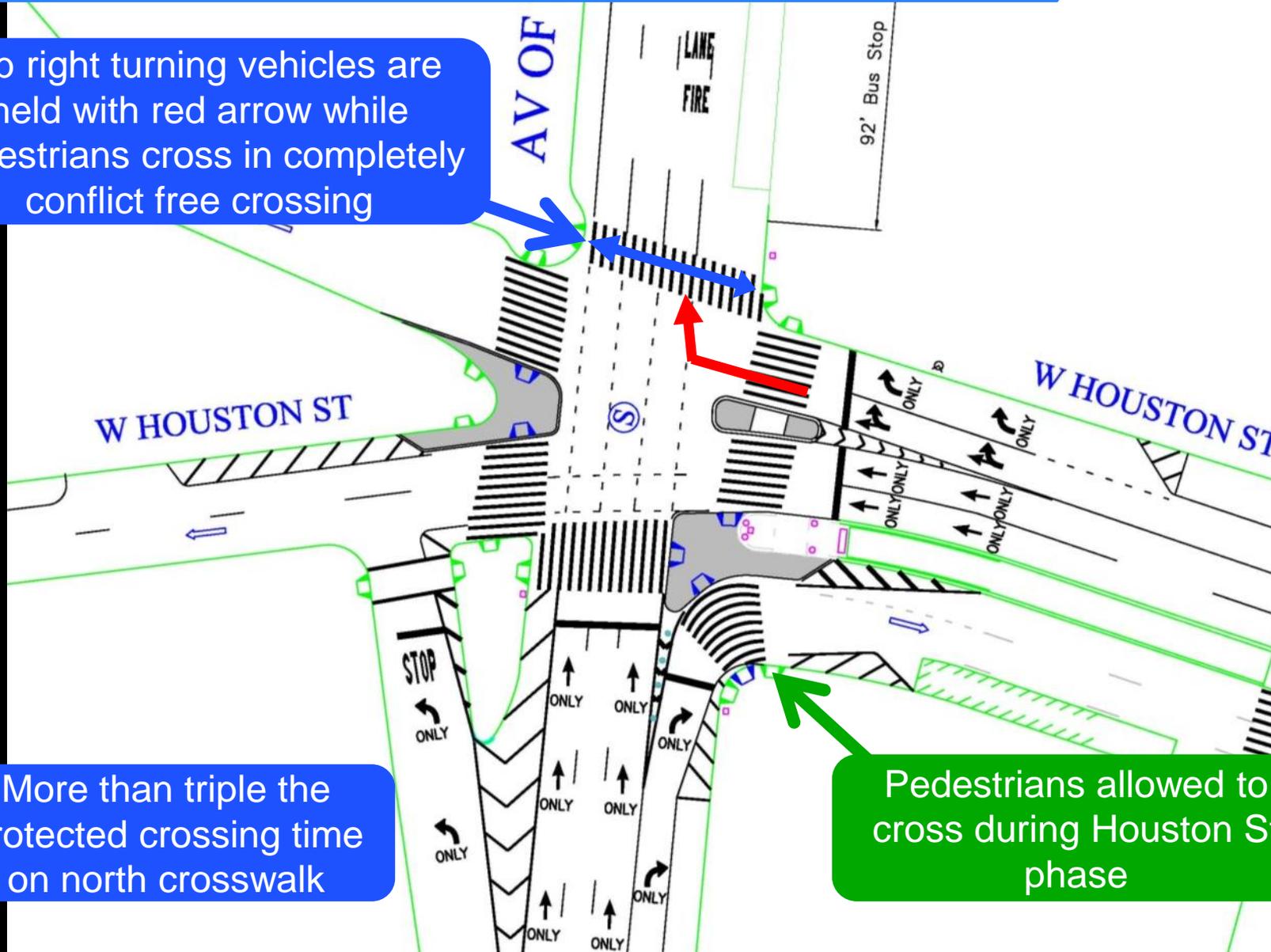
Safety islands break up crossing and provide waiting area

Pedestrian crossing across 6th Ave reduced 25 ft



3. Separate Pedestrians and Vehicles

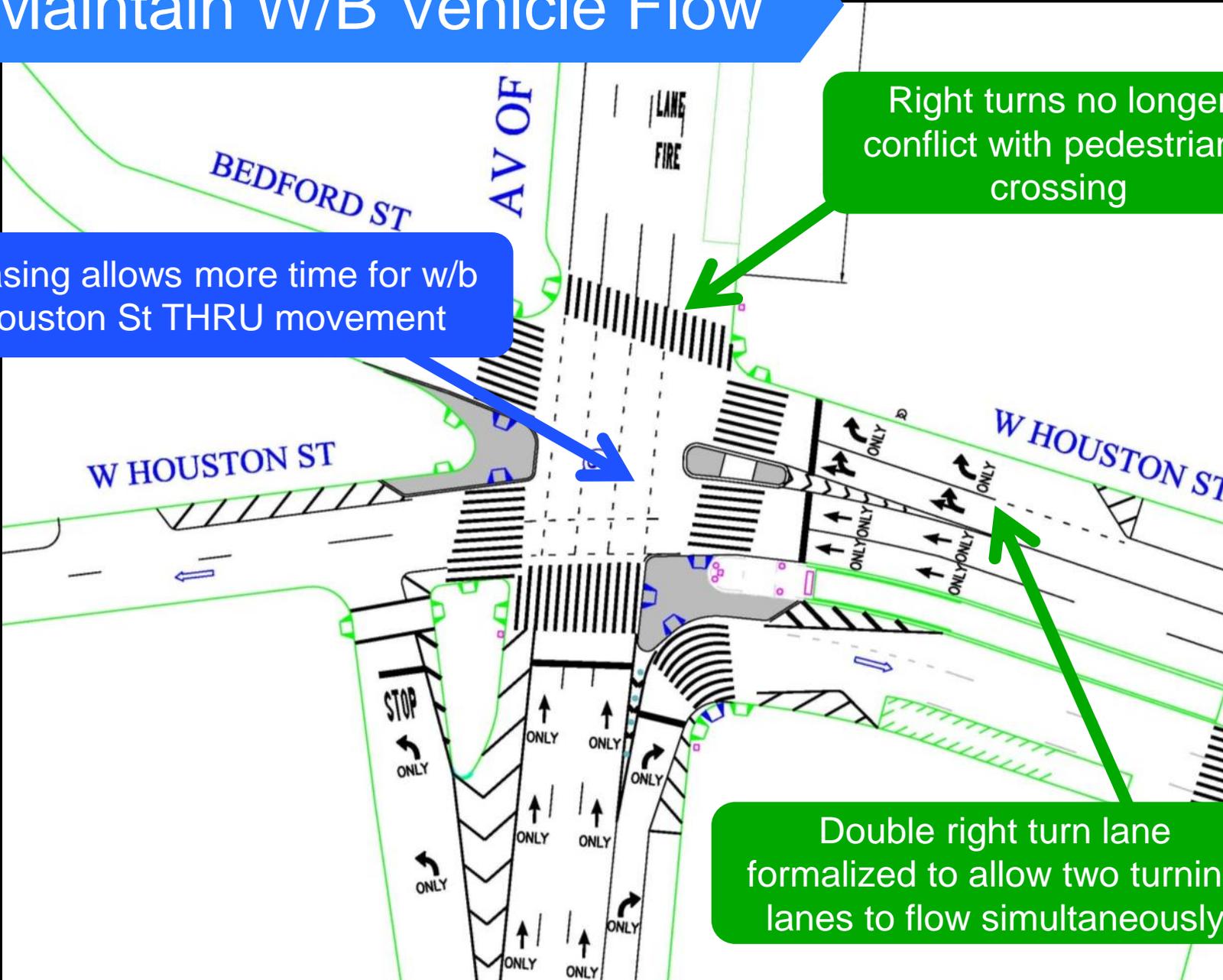
w/b right turning vehicles are held with red arrow while pedestrians cross in completely conflict free crossing



More than triple the protected crossing time on north crosswalk

Pedestrians allowed to cross during Houston St phase

4. Maintain W/B Vehicle Flow



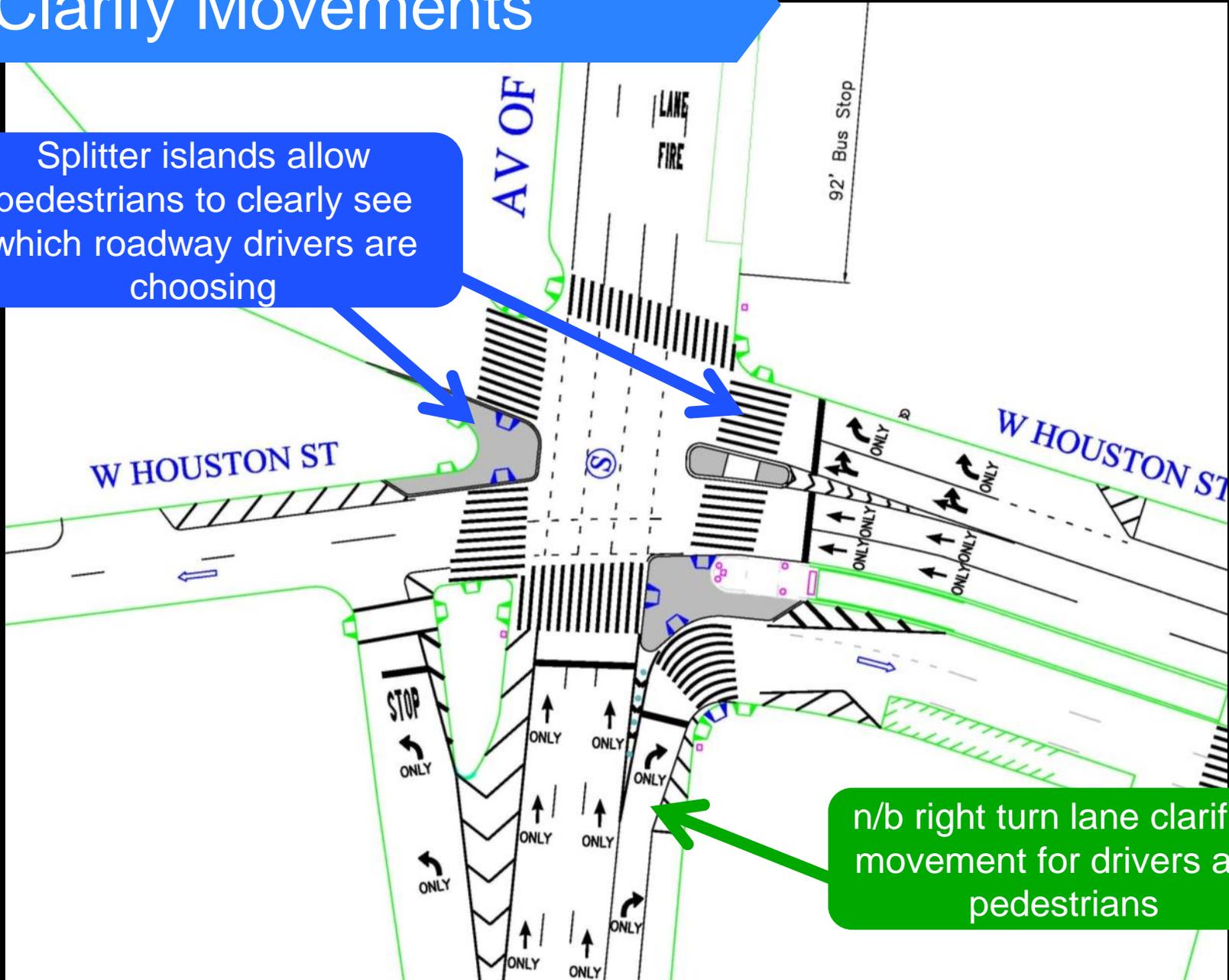
Phasing allows more time for w/b Houston St THRU movement

Right turns no longer conflict with pedestrians crossing

Double right turn lane formalized to allow two turning lanes to flow simultaneously

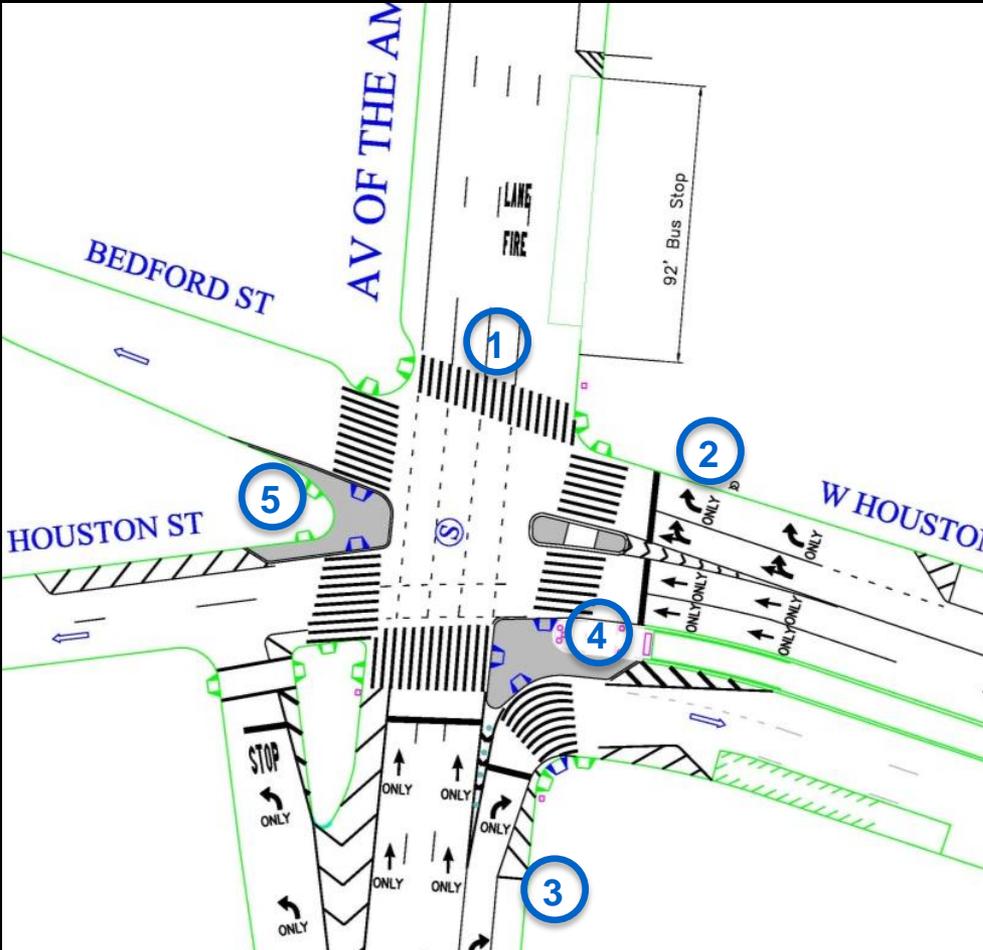
5. Clarify Movements

Splitter islands allow pedestrians to clearly see which roadway drivers are choosing



n/b right turn lane clarifies movement for drivers and pedestrians

Proposal Summary



1. Create conflict free pedestrian phase in north crosswalk
2. Formalize double right turns from w/b Houston St onto n/b 6th Ave
3. Create n/b 6th Ave right turn only lane
4. Extend Houston St/Bedford St sidewalk into west crosswalk
5. Construct sidewalk extension from Houston St median into east crosswalk



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Thank
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