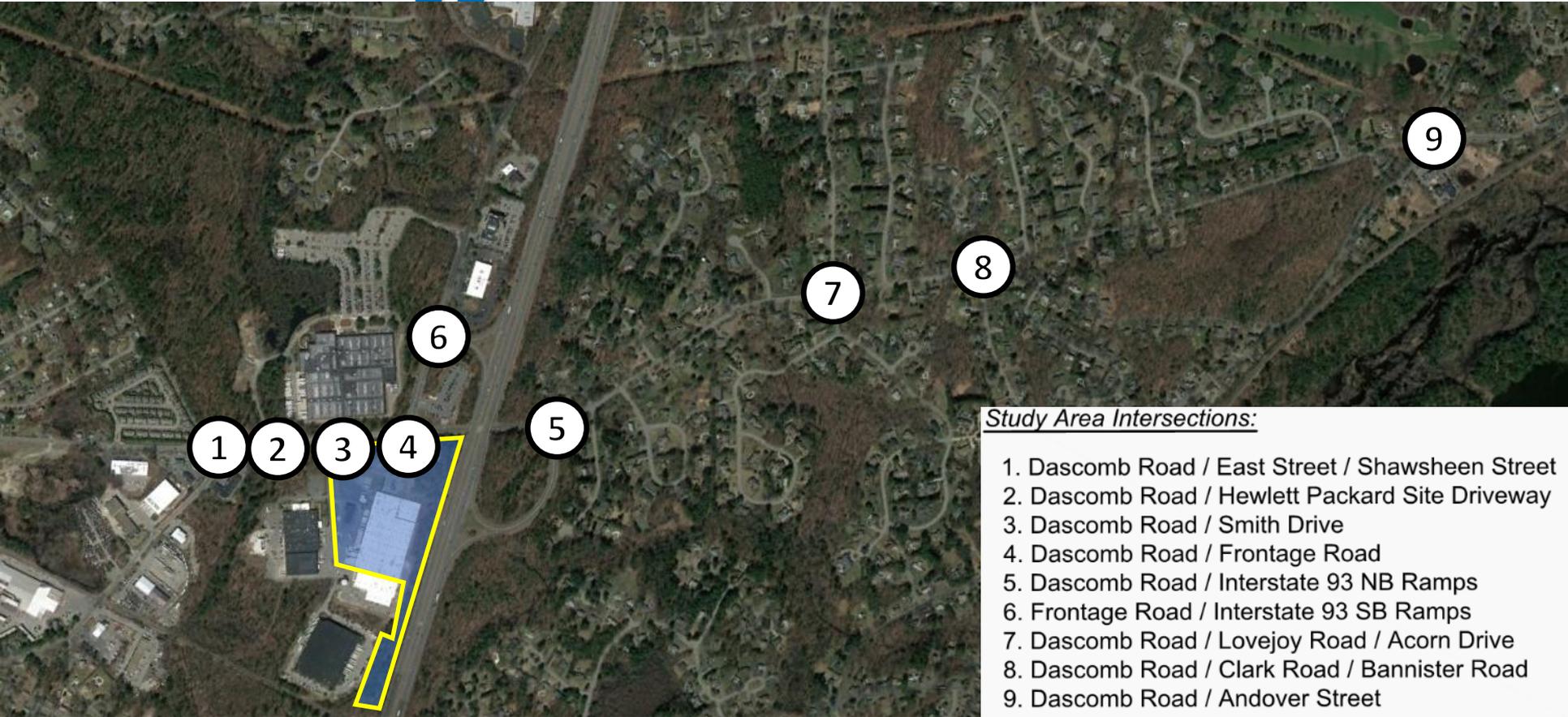


# Dascomb Road Traffic Presentation



## Study Area Intersections:

1. Dascomb Road / East Street / Shawsheen Street
2. Dascomb Road / Hewlett Packard Site Driveway
3. Dascomb Road / Smith Drive
4. Dascomb Road / Frontage Road
5. Dascomb Road / Interstate 93 NB Ramps
6. Frontage Road / Interstate 93 SB Ramps
7. Dascomb Road / Lovejoy Road / Acorn Drive
8. Dascomb Road / Clark Road / Bannister Road
9. Dascomb Road / Andover Street

July 23, 2019

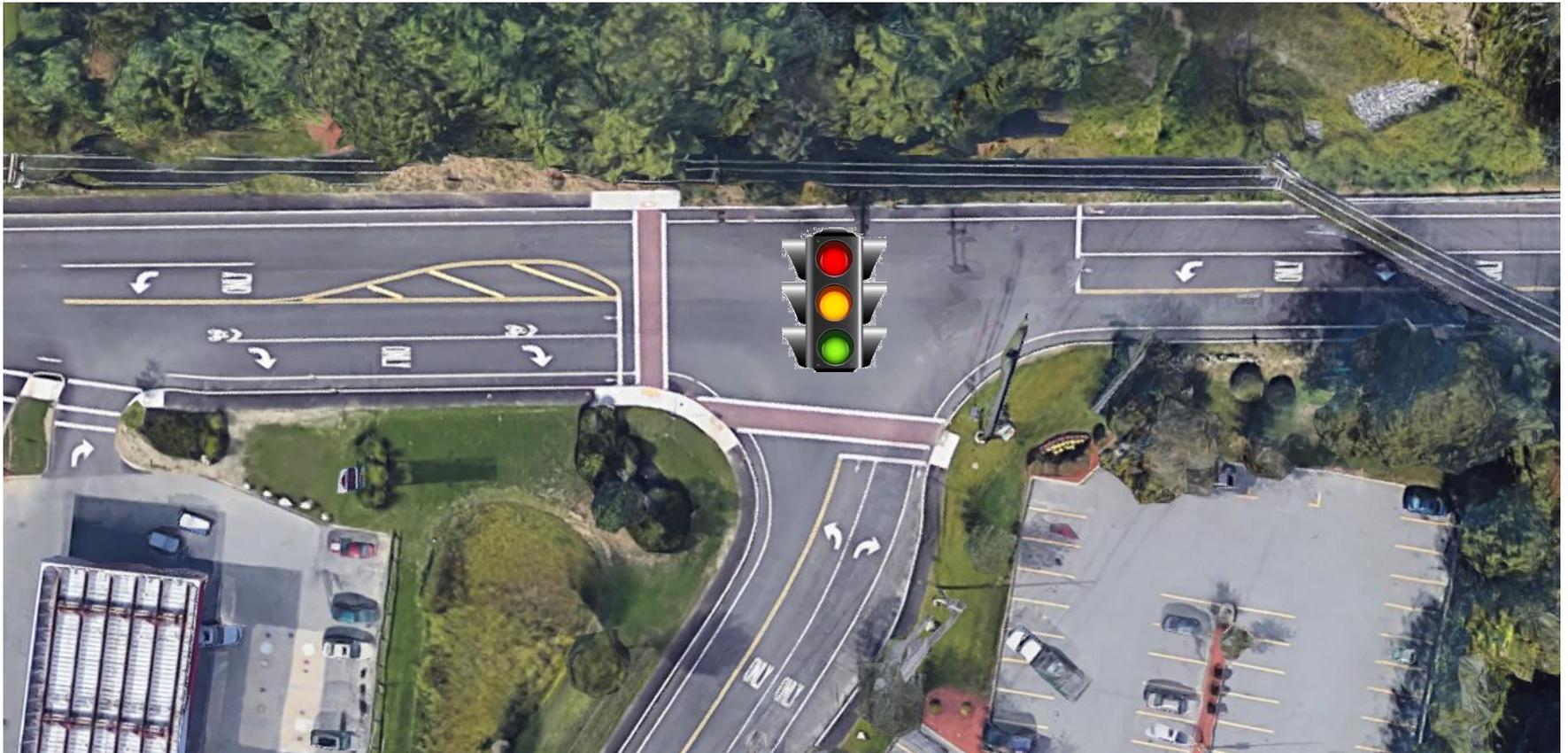
# *Traffic Mitigation*

- *Review-to-Date*
- *Mitigation updates since January presentation*
- *Peer Review Letter, dated July 19, 2019*
  - *Review Outstanding Comments*

# Mitigation Updates

## *Dascomb Road / East Street / Shawsheen Street*

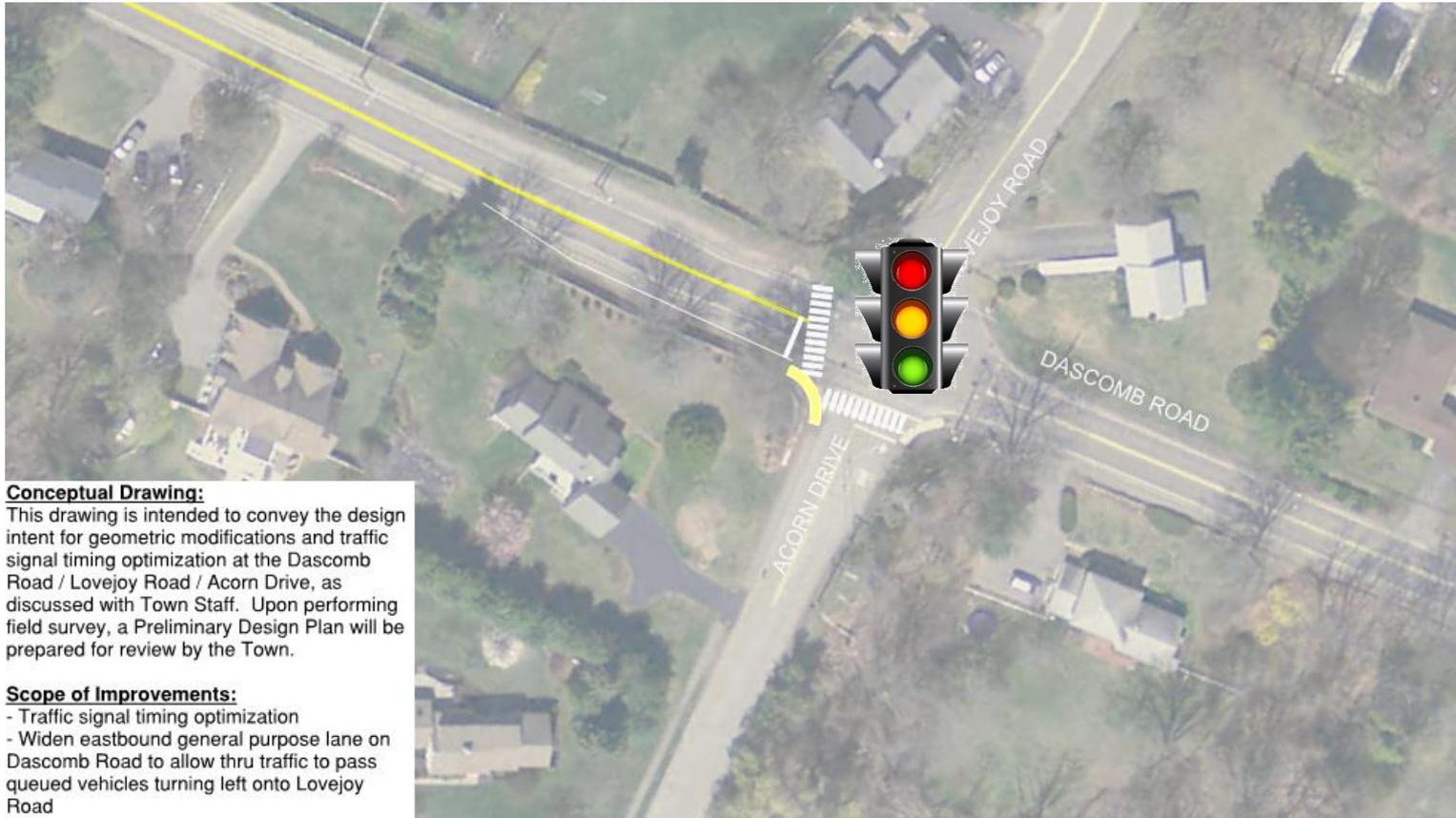
- *Re-timing existing signal*
- *Increase turning radius on Shawsheen Street to accommodate truck turns, coordinate design and improvements with Tewksbury Town Staff*



# Mitigation Updates

## *Dascomb Road / Lovejoy Road / Acorn Drive*

- *Post-occupancy signal re-timing*
- *Geometric Improvements - widening general purpose lane*
- *Coordinate design with Town Staff*



### **Conceptual Drawing:**

This drawing is intended to convey the design intent for geometric modifications and traffic signal timing optimization at the Dascomb Road / Lovejoy Road / Acorn Drive, as discussed with Town Staff. Upon performing field survey, a Preliminary Design Plan will be prepared for review by the Town.

### **Scope of Improvements:**

- Traffic signal timing optimization
- Widen eastbound general purpose lane on Dascomb Road to allow thru traffic to pass queued vehicles turning left onto Lovejoy Road

# Mitigation Updates

## *Dascomb Road / Clark Road / Bannister Road*

- *Geometric improvements*
  - *Separate / better delineate Clark & Bannister*
  - *Align eastbound Dascomb fog line w/ centerline of road*
  - *Move Clark Road stop bar north to improve sight distance and reduce driver hesitation*
  - *Accommodate Andover Fire Truck (39')*
- *Coordinate design with Town Staff*



### **Conceptual Drawing:**

This drawing is intended to convey the design intent for geometric modifications at the Dascomb Road / Clark Road / Bannister Road, as discussed with Town Staff. Upon performing field survey, a Preliminary Design Plan will be prepared for review by the Town.

### **Scope of Improvements:**

- Provide curb and landscape improvements to delineate and better separate Clark Road from Bannister Road.
- Align eastbound fog lane on Dascomb Road with centerline approaching Clark Road.
- Shift stop bar on Clark Road northerly to reduce driver hesitation, improve sight distance, and efficiency of the intersection.
- Accommodate a 39' ladder fire truck turning right from Clark Road onto Bannister Road.

# Mitigation Updates

## Dascomb Road / Andover Street

- *Geometric improvements – Separate entering/exiting Dascomb Road traffic w/ median to reduce driver confusion and improve safety and efficiency of intersection*
- *Coordinate design with Town Staff*



### **Conceptual Drawing:**

This drawing is intended to convey the design intent for geometric modifications at the Dascomb Road / Andover Street intersection, as discussed with Town Staff. Upon performing field survey, a Preliminary Design Plan will be prepared for review by the Town.

### **Scope of Improvements:**

- Reduce driver confusion
- Reduce conflicting turning movements
- Improve safety and efficiency of the intersection
- Separate traffic entering / exiting Dascomb Road with median
- Provide separate left & right turn lanes exiting Dascomb Road



# *Mitigation Summary*

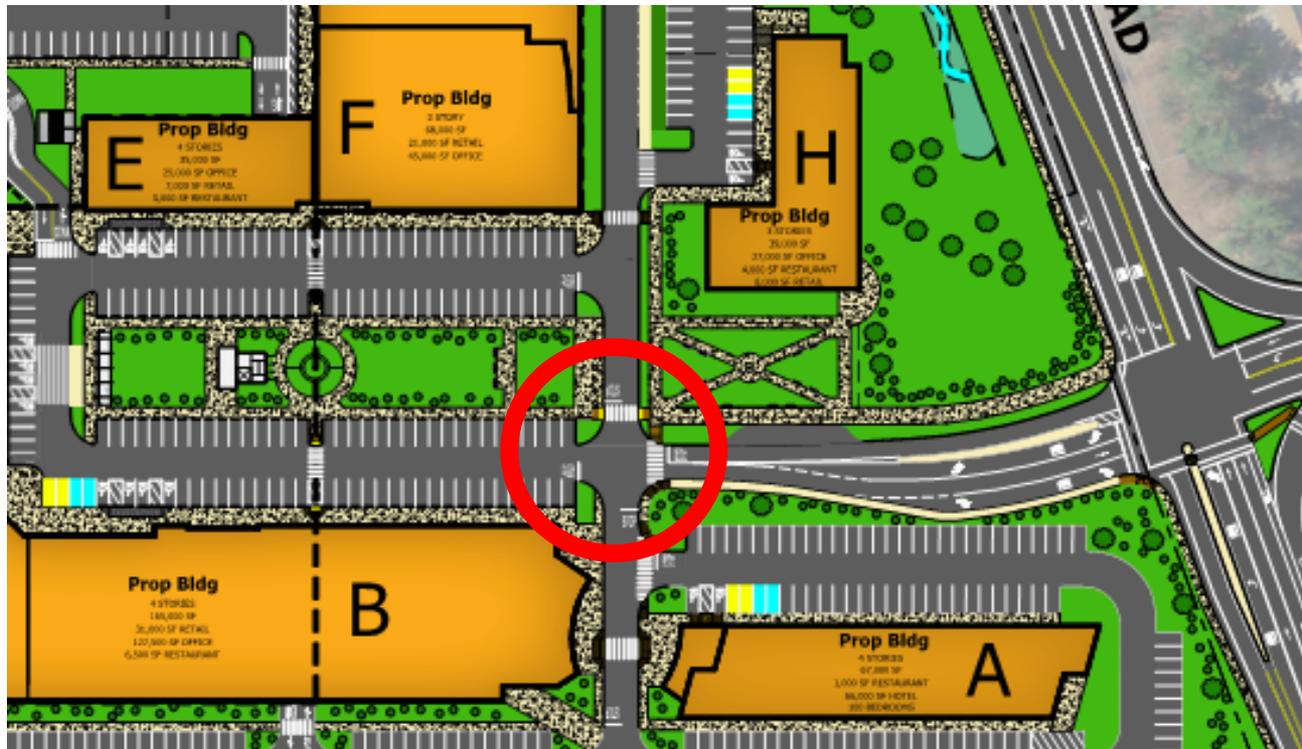
## *General / Corridor-Wide Improvements*

- *Greatly improve pedestrian accommodations on Dascomb Road including ADA accessible sidewalks, ramps, and crossings*
- *Traffic signal timing and coordination*
- *Bicycle accommodations*
- *Transportation Demand Management (TDM) / MVTMA*
- *Preferential parking for rideshare, carpool, and hybrid vehicles*
- *Traffic calming and installation of pedestrian crossings with Rapid Flashing Beacons*
- *Post-occupancy Transportation Monitoring Program (TMP)*

# Peer Review

## Comment #3

- Review Comment
  - Observe queues entering site, approaching the 4-way stop as part of post-occupancy monitoring to assess if that should be converted to free-flow.
- Applicant Response
  - Agree to assess as part of post-occupancy monitoring program.



# Peer Review

## Comment #11

- *Review Comment*
  - *As design of Dascomb Road / Andover Street intersection is advanced into Preliminary Design include yield sign and pavement markings on the channelized right-turn movement, and remove double-yellow centerline on Andover Street at intersection.*
- *Applicant Response*
  - *Agree to incorporate recommendations into the Preliminary Design Plan.*



# Peer Review

## Comment #18

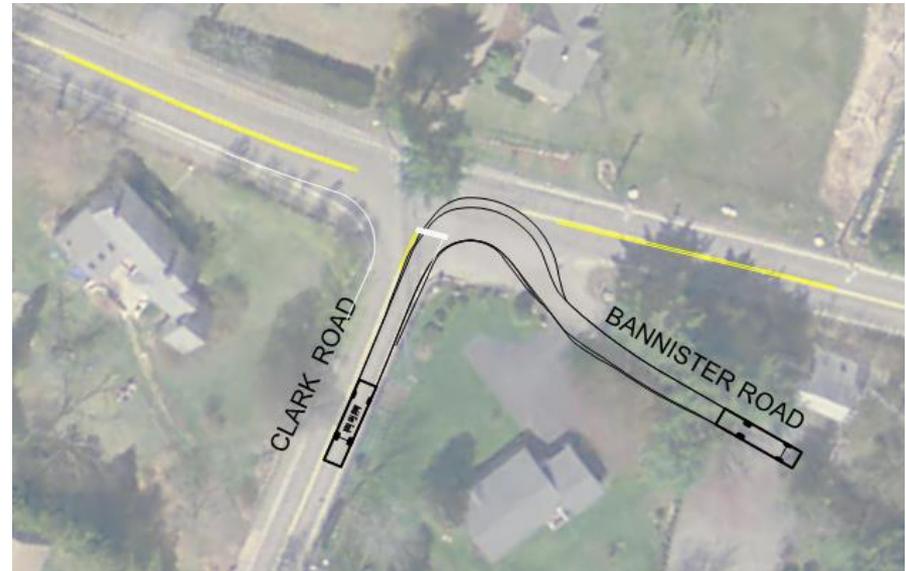
- Review Comment
  - As design of Dascomb Road / Lovejoy Road intersection is advanced into Preliminary Design include dimensions of lane width, length, and taper length. Verify clearance intervals and adjust as necessary when the signal timing is optimized.
- Applicant Response
  - Agree to incorporate recommendations into the Preliminary Design Plan.



# Peer Review

## Comment #19

- Review Comment
  - *Depict Andover Fire Department fire truck on the Dascomb Road / Clark Road. As design of Dascomb Road / Clark Road intersection is advanced into Preliminary Design coordinate details with Town Staff and Reviewer including adding “STOP” pavement markings at the stop bar.*
- Applicant Response
  - *Confirmed that mountable curb isn't required to meet turning needs for APD. Agree to incorporate recommendations and coordinate with Town and Reviewer as Preliminary Design Plan is developed.*



# Peer Review

## Comment #21

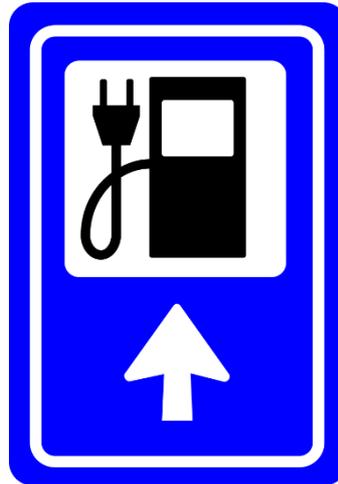
- Review Comment
  - If “banked” parking spaces are to be formalized into paved parking, demonstrate need by conducting a parking utilization study. Then convert parking, if needed, in the following order depicted below.
- Applicant Response
  - We also believe formalizing banked parking won’t be necessary, however, we agree to the process outlined in the letter in the event that additional parking is needed.



# Peer Review

## Comment #23

- *Review Comment*
  - *Provide on-site wayfinding signage for electric vehicle and preferential parking spaces. Consider incorporating separate direction to vacant EV charging stations within intelligent parking system.*
- *Applicant Response*
  - *We agree to consider incorporating wayfinding signage for electric and preferential parking spaces into the future signage package for the site. We also agree to consider direction to vacant EV charging station within the intelligent parking system upon design of the parking structure.*



# Peer Review

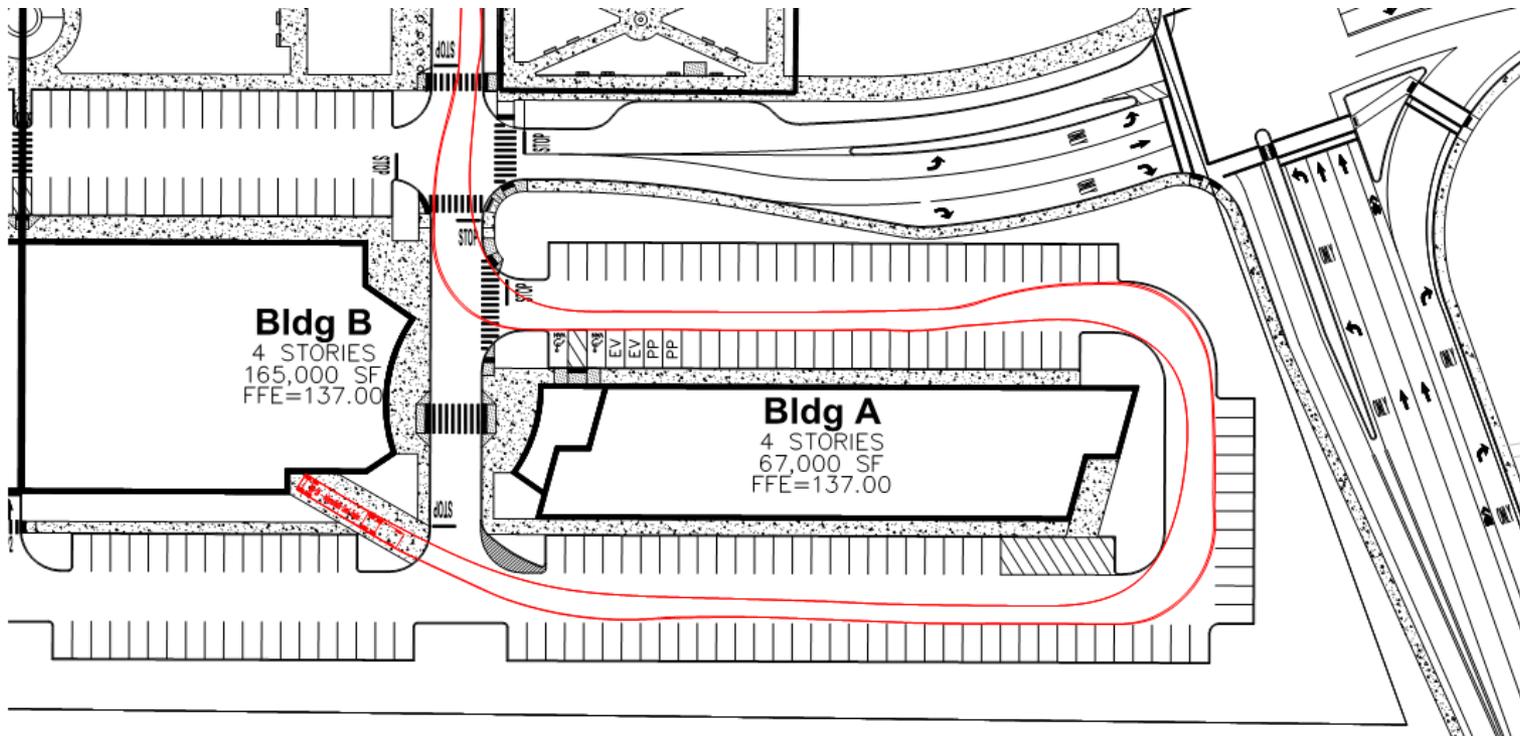
## Comment #30

- *Review Comment*
  - *As phases of the project are developed, coordinate with the Town, LRTA, and MVRTA to see if extending bus service to the site is feasible.*
- *Applicant Response*
  - *We agree to coordinate at each phase of the project with the Town, LRTA, and MVRTA to determine if extending bus service is warranted.*

# Peer Review

## Comment #34

- Review Comment
  - Revise site plan to eliminate parking spaces where conflicting with the loading area at Building A. Depict truck exiting loading area for Building B.
- Applicant Response
  - We agree to revise the Site Plan, as shown below.



# *Peer Review*

## **Comment #39**

- *Review Comment*
  - *Check clearance interval at Dascomb Road / Lovejoy Road when signal timings are optimized.*
- *Applicant Response*
  - *We agree to incorporate a review of the clearance intervals during optimization.*