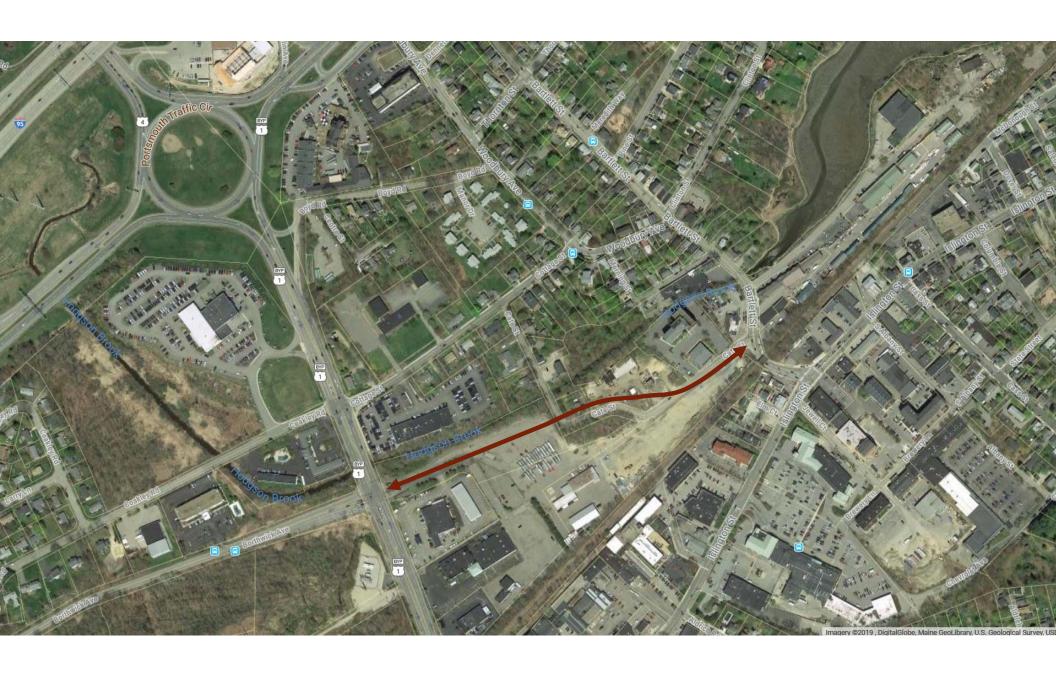
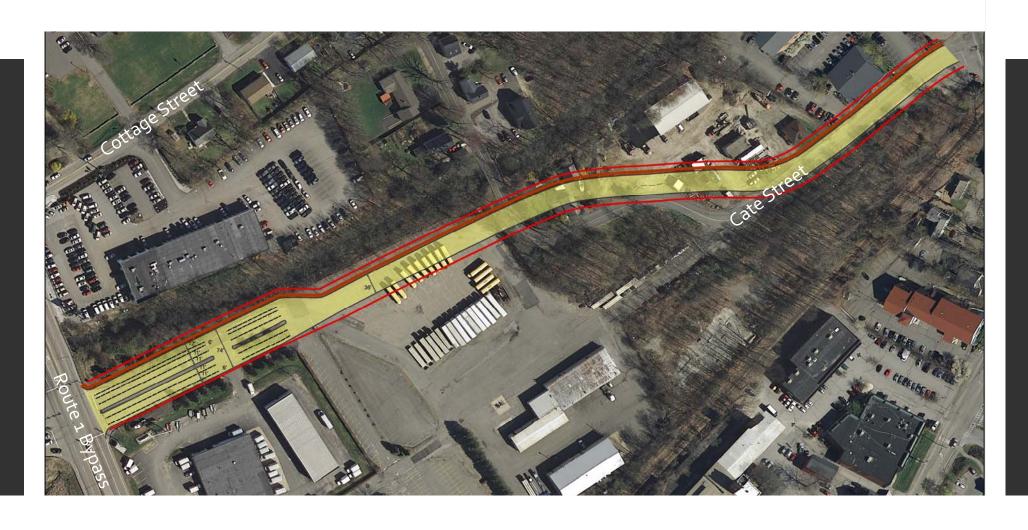
CATE STREET CONNECTOR & BARTLETT STREET NEIGHBORHOOD TRAFFIC CALMING

Neighborhood Listening Session 3/11/2019





CONCEPTUAL LAYOUT



EXISTING CONDITIONS

Bartlett Street

- minor arterial and truck route between Islington St and Woodbury Ave / Route 1 Bypass
- travels through dense residential neighborhoods
- peak traffic levels in weekday PM (commuter period)
- significant queuing of vehicles at Islington St signal during peak travel time
- railroad bridge creates constrained condition before Islington St intersection

Cate Street

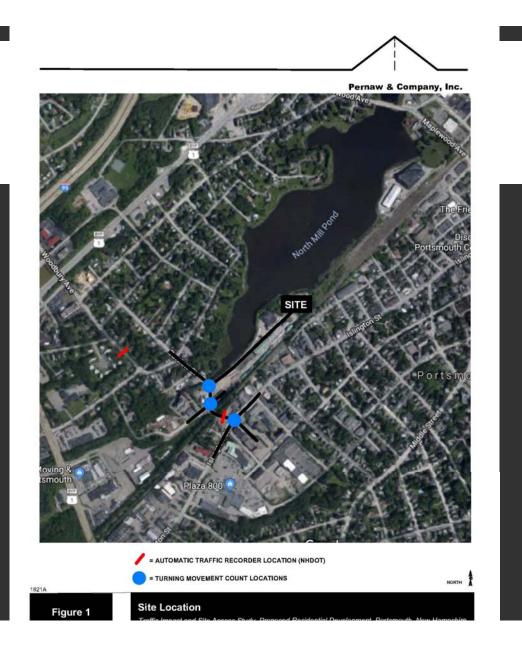
- local road, indirect connection to Route 1 Bypass via Cottage St
- sub-standard bridge over Hodgson Brook will need replacement in near future
- periodically blocked by queuing from Islington St signal

Islington St

- · minor arterial and primary connector between downtown and Rte 33/Greenland Rd
- Truck traffic accounts for 2-3% of traffic flow

105 BARTLETT STREET TRAFFIC ANALYSIS

- Potential impact of 120 dwelling units (conceptual only, no formal development proposal has been submitted)
- Intersections studied: Bartlett St / existing driveway, Bartlett St / Cate St, Bartlett St / Islington St
- Findings
 - Increase of 41 vph AM peak, 53 vph PM peak
 - Primarily outbound in AM, primarily inbound in PM (opposite of existing)
 - Biggest impact on Bartlett St east of site (net 2% increase in AM)
 - Queuing at Islington St traffic signal will continue to extend beyond driveway at peak times
 - Recommend addition of left turn lane on southbound approach of Bartlett St (not supported by staff at this time)

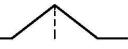


105 BARTLETT STREET TRAFFIC ANALYSIS

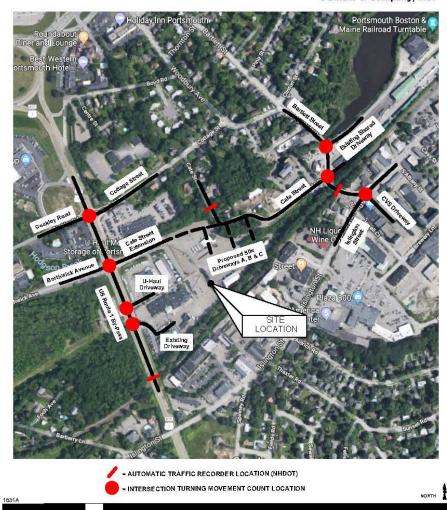
- Impact of Cate Street Extension and Proposed Mixed Use Development on Frank Jones Center property
 - the extension of Cate Street will reduce vehicle-trips on certain sections of Bartlett Street due to local trip diversions
 - the extension of Cate Street will alter the travel patterns of those currently using the existing driveway
 - recommend no-right turn for large trucks from site driveway
 - net change on Bartlett Street during the weekday PM peak hour is approximately
 -200 vph north of the shared driveway and -50 vph south of the shared driveway

428 ROUTE 1 BYPASS (FRANK JONES CENTER) TRAFFIC ANALYSIS

- Potential impact of 325 apts, 17 townhomes, 22K retail/restaurant, 22K office (conceptual only, final project proposal has not been submitted)
- Intersections studied
 - US1 Bypass/Cottage St/Coakley Rd
 - US 1 Bypass/Borthwick Ave
 - US 1 Bypass/site driveway
 - Islington St / Bartlett St / CVS driveway
 - Bartlett St / Cate St
 - Bartlett St / existing driveway
 - Cate Street extension proposed site driveways



Pernaw & Company, Inc.



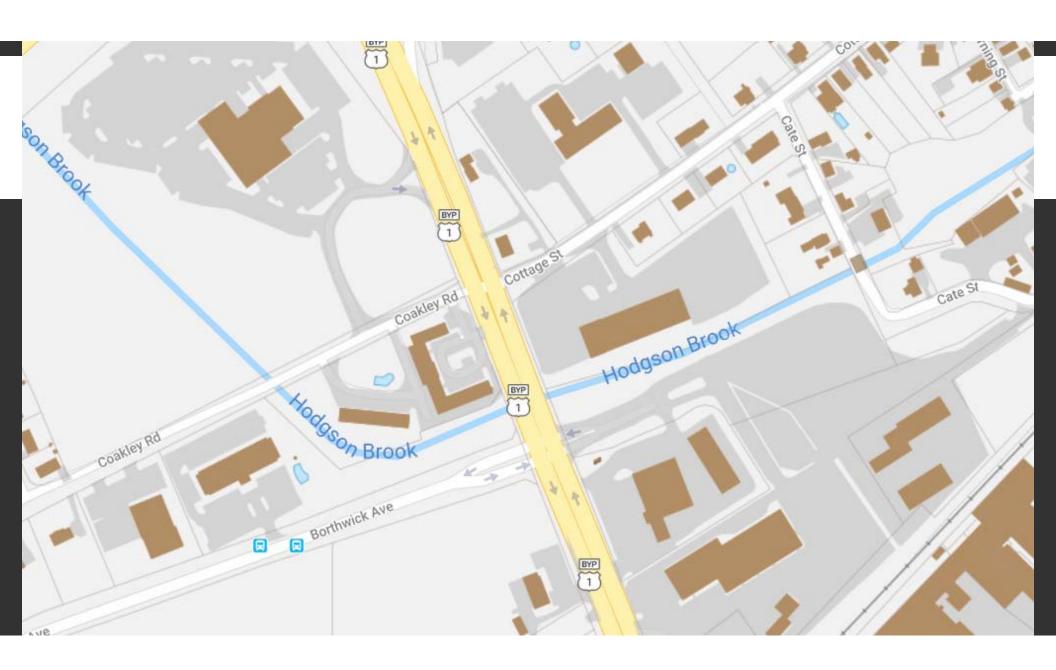
Site Location

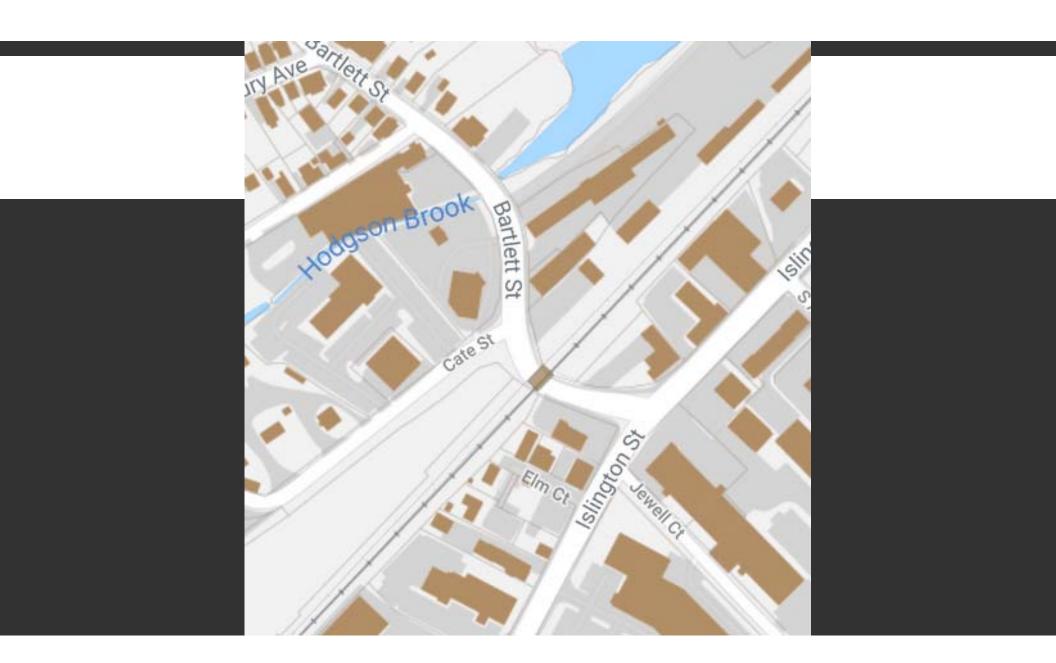
428 ROUTE 1 BYPASS (FRANK JONES CENTER) TRAFFIC ANALYSIS

Findings

- Increase of 379 vehicles per hour (vph) PM peak, 471 vph Saturday mid-day this is all vehicles entering and exiting the site
- Addition of Cate Street Extension will result in -200 vph (approximately 18% decrease) on Bartlett St (north of project) and -80 vph (approx. 16% decrease) on Cottage St (east of Bypass) during PM peak
- Capacity deficiencies at Bartlett St / Cate St intersection as a result of site traffic and diverted traffic to new roadway
- 3 Alternatives considered for Bartlett St / Cate St intersection
- Intersection improvements at US 1 Bypass and potential closure of the median island at Cottage St/Coakley Rd will likely be required





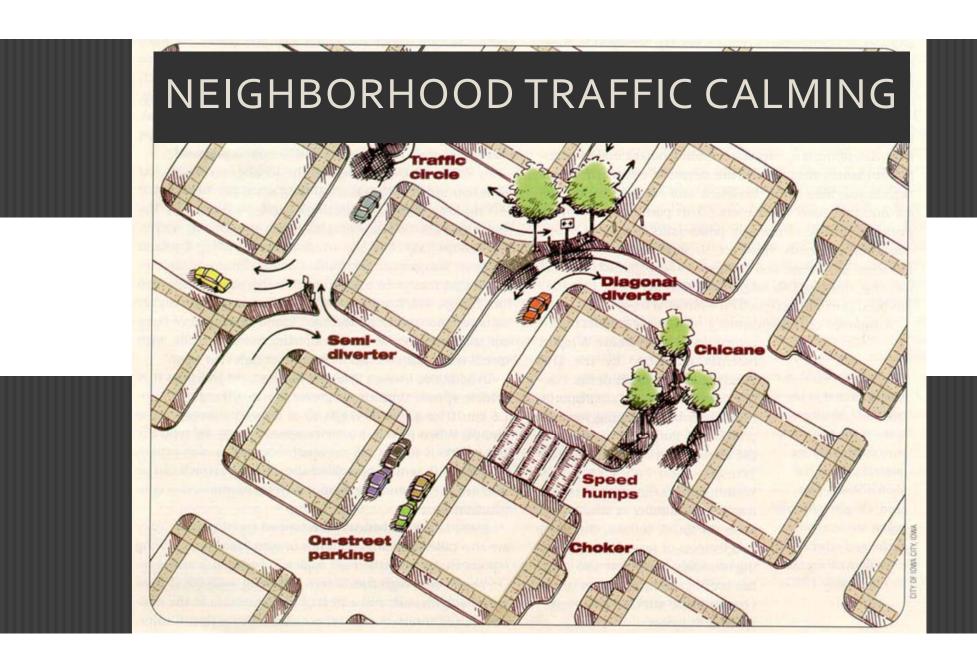


PRELIMINARY ANALYSIS

- Pros
 - Removal of cut-through traffic through Bartlett St residential neighborhood
 - Queuing on Cate Street will eliminate the blockage of the Cate Street/Bartlett intersection, which is key for left turns from Bartlett onto Cate (such as ambulances on the way to the hospital)
 - Removal of traffic signal and closing of median on Bypass at Cottage will make for better traffic flow and safer conditions on the Bypass
 - More direct access for to Borthwick Ave and Hospital
 - Bicycle and pedestrian connections
 - Divert traffic queuing from Islington St onto Cate St rather than Bartlett St

PRELIMINARY ANALYSIS

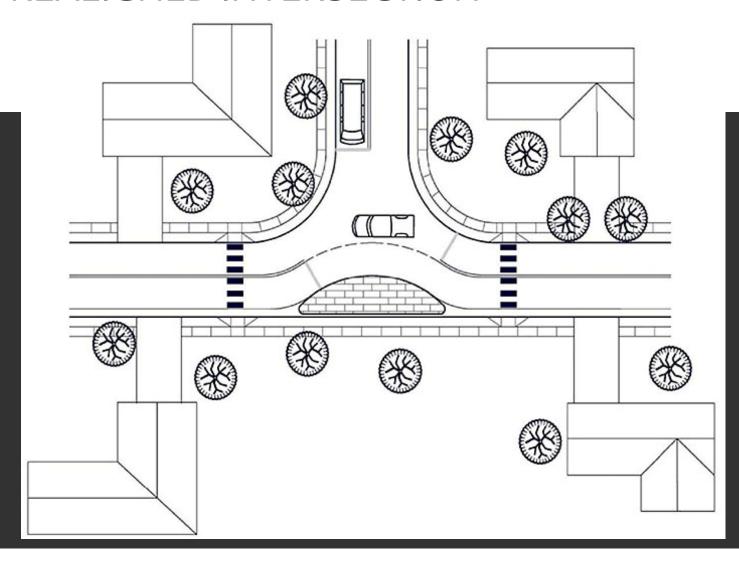
- Cons
 - Intersection improvements required at Route 1 Bypass
 - Connector road required for median closure at Coakley/Cottage
 - Elimination of existing Cate St Cottage St connection will impact existing properties
 - Queuing at Islington St / Bartlett St intersection will likely increase
 - Potential for overall traffic to increase



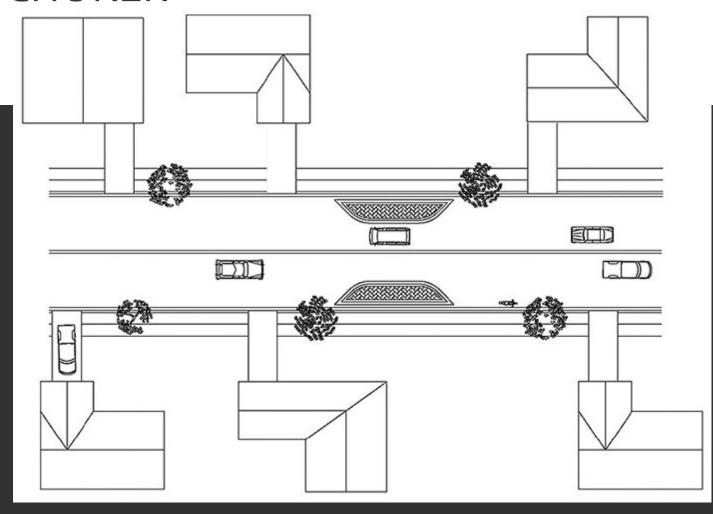
OVERALL NEIGHBORHOOD



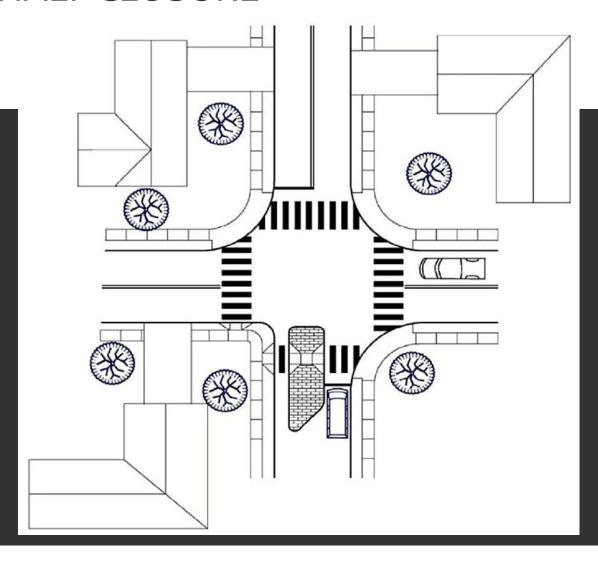
REALIGNED INTERSECTION



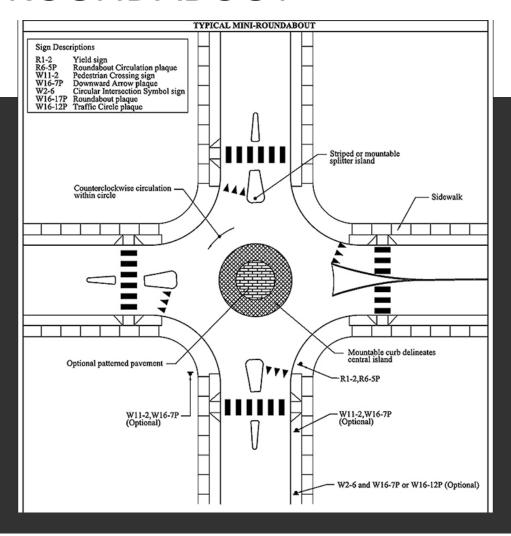
CHOKER



HALF CLOSURE



MINI-ROUNDABOUT



BARTLETT STREET AND THORNTON STREET INTERSECTION

