

From: [Robert Michaud](#)
To: [Keith Hague](#)
Subject: Acton
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Keith –

Traffic networks as requested and that served as the basis for concept design and our discussions with MassDOT and Roche Bros. Key points:

- Route 111 is a high speed (45 mph) roadway that carries approximately 650-750 vehicles per hour
- The Plaza generates peak traffic activity of 750 vehicles per hour (weekday evenings) and likely more on Saturdays
- Approximately 65% of all Plaza trips originate from or return to Route 111 via the Plaza access road, creating significant queues and delays that extend from Route 111 past the Plaza driveway
- New driveway on Route 111 is expected to accommodate 120 inbound trips and 187 outbound (exiting) trips for the Plaza – about 40 percent of the total Plaza trip activity.
- Direct access to Route 111 will eliminate the access road queue issue; analysis shows queues of less than 3 vehicles during peak hours with the driveway in place versus more than 9 currently.
- Concept access design meets MassDOT geometric requirements for driveways on high speed roadways which require sufficient lane deceleration/acceleration length to come to a full stop at the Plaza circulation aisle and to merge with traffic on Route 111.
- Driveway is located at the optimal location, as parking spaces impacted by the driveway are among the lowest utilized spaces in the entire Plaza.

Let me know if you need parking figures as well or have any questions.

Best Regards,

Bob

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Attachments:

623 Figure 3.pdf	(167 KB)
623 Figure 4.pdf	(196 KB)
623 Figure 7.pdf	(137 KB)
623 Figure 8.pdf	(138 KB)
623 Figure 9.pdf	(172 KB)
623 Figure 10.pdf	(175 KB)