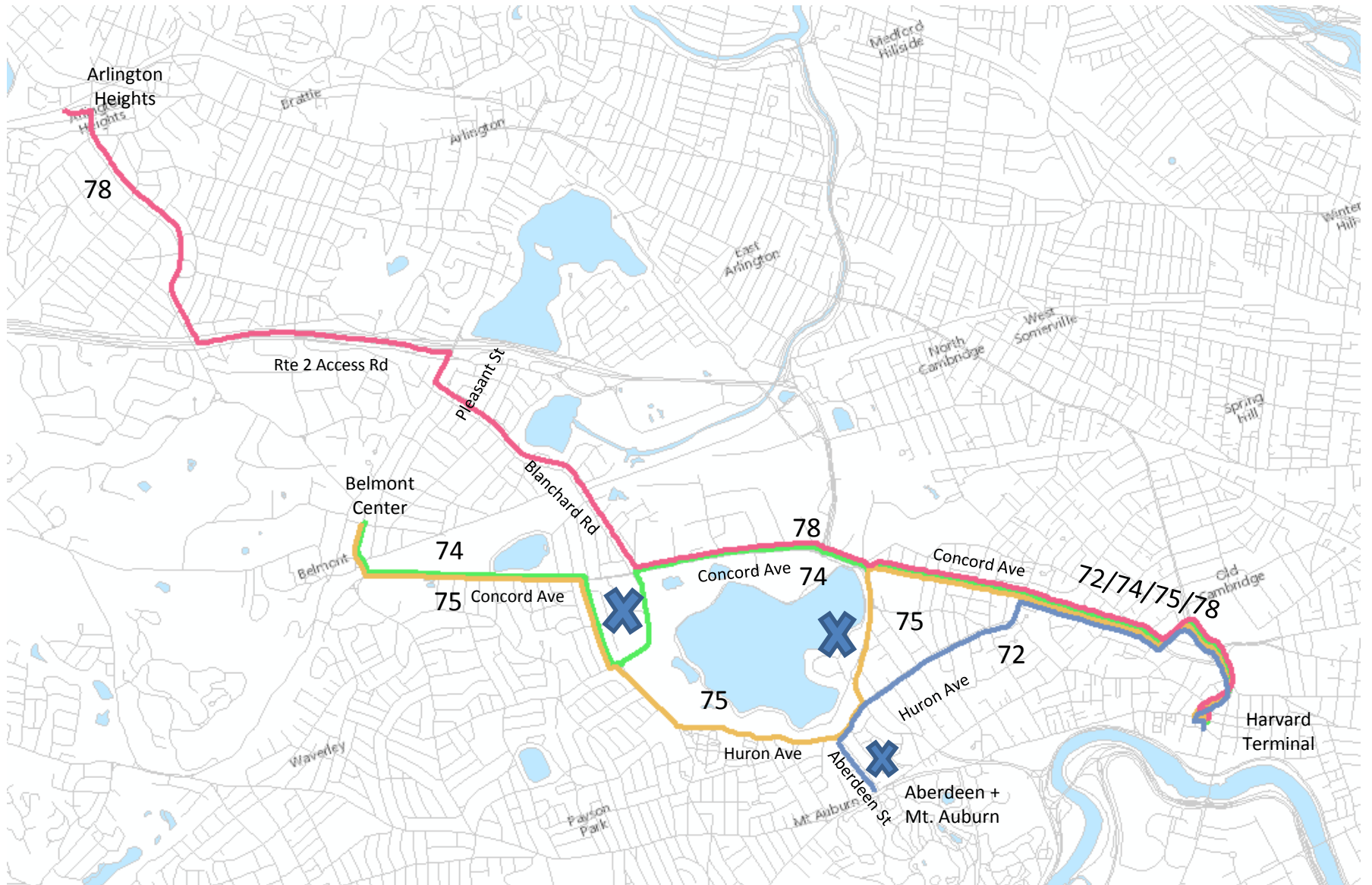


Proposed Improved Service Plan for MBTA Routes 72, 74, 75, & 78

Cambridge Transit Advisory Committee

April 5, 2017

MBTA Bus Routes 72, 74, 75, 78



Advantages of Proposed (72/75/74/78) Plan

- Greatly enhanced service for West Cambridge and Belmont bus users at a very small cost (9 peak buses vs. 8)
- Even, mostly clockface headways of 15 minutes or better in peak for most users of 4 routes
- Less crowding and better (more uniform) utilization than existing schedule can provide
- Eliminates annoying Cambridge/Belmont kink (with only one stop eliminated and 1-2 riders/day affected) in Route 74 on Blanchard/Bright Roads and traffic-plagued Fresh Pond Parkway link on Route 75 as well as Aberdeen Road stops

Advantages of Proposed (72/75/74/78) Plan (cont.)

- More schedule time for Route 78 (badly needed based on running time analysis) as well as for 72/75 and 74 by eliminating small, unproductive segments
- New schedules for 74 and 78 and interlining during the off-peak periods provide better recovery in cases of bad peak congestion (more overall and reallocated recovery time for these related Concord Ave. routes)
- Complete schedule coordination among all 4 routes → less bus bunching
- Should result in significant ridership growth (only modest increases assumed here) and productivity increases likely even with addition of one bus
- Overhead electric wires on Concord, Huron & Aberdeen can be eliminated with a maintenance cost savings to the MBTA (these haven't been used for past two years due to construction)

Route Statistics

Current Schedule				Proposed Plan				
Route 72	Headway	Buses	Current Riders	Est. Prod. Pax/Bus Hr.				
Before 7:30	30 m	1	114	57				
7:30 – 9:29	20 m	2	257	62				
9:30 – 4:29	35 m	1	301	43				
4:30 – 6:59	20 m	2	243	49				
After 7:00	30 m	1	<u>103</u>	21				
			1,018					
Combined Route 72/75								
Route 75	Headway	Buses	Current Riders	Est. Prod. Pax/Bus Hr.	Headway	Buses	Est. Riders (20% Inc.)	Est Prod. Pax/Bus Hr.
Before 7:30	1 trip	1	59	30	30 m	2	210	53
7:30 – 9:29	65 – 70m	1	80	40	15 m	4	410	56
9:30 – 4:29	70m	1	171	24	30 m	2	560	40
4:30 – 6:59	50-75m	1	89	36	15 m	4	400	40
After 7:00	125m	0.5	<u>62</u>	25	30 m	2	<u>200</u>	20
			461				1,780	

Proposed Coordinated Schedules

AM Inbound

Route (Bus)	Leave Arlington Heights	Leave Belmont Center	Leave Concord/ Blanchard	Leave 700 Huron Ave	Leave Concord/ Huron	Arrive Harvard
74(1)		6:30	6:40		6:50	7:00
75(1)		6:37		6:50	6:58	7:07
78(1)	6:30		6:55		7:05	7:15
75(2)		6:52		7:05	7:13	7:22
74(2)		7:00	7:10		7:20	7:30
75(3)		7:07		7:20	7:28	7:37
78(2)	7:00		7:25		7:35	7:45
75(4)		7:22		7:35	7:43	7:52
74(1)		7:30	7:40		7:50	8:00
75(1)		7:37		7:50	7:58	8:07
78(3)	7:30		7:55		8:05	8:15

Proposed Coordinated Schedules

AM Outbound

Route (Bus)	Leave Harvard	Leave Concord/ Huron	Leave 700 Huron Ave	Leave Concord/ Blanchard	Arrive Belmont Center	Arrive Arlington Heights
74(1)	7:05	7:10		7:20	7:25	
75(1)	7:12	7:17	7:24		7:34	
78(1)	7:20	7:25		7:35		7:55
75(2)	7:27	7:32	7:39		7:49	
74(2)	7:35	7:40		7:50	7:55	
75(3)	7:42	7:47	7:54		8:04	
78(2)	7:50	7:55		8:05		8:25
75(4)	7:57	8:02	8:09		8:19	
74(1)	8:05	8:10		8:20	8:25	
75(1)	8:12	8:17	8:24		8:34	
78(3)	8:20	8:25		8:35		8:55