

## Engineering

Criterion	Measure	Alt 1 (No Build, 2 Tracks)	Alt 3A (4 Tracks)	Alt 3B (4 Tracks)	Alt 3C (4 Tracks)
Travel Time Between Penn Station and Gwynns Falls Bridge (Southbound/Northbound)	Minutes: Seconds	<u>Amtrak Acela</u> 5:43/6:10 <u>Amtrak Regional</u> 5:50/6:19 <u>MARC</u> 5:50/6:14	<u>Amtrak Acela</u> 3:59/4:02 <u>Amtrak Regional</u> 4:19/4:19 <u>MARC</u> 4:56/4:17	<u>Amtrak Acela</u> 3:24/3:25 <u>Amtrak Regional</u> 3:43/3:34 <u>MARC</u> 4:22/3:56	<u>Amtrak Acela</u> 3:27/3:27 <u>Amtrak Regional</u> 3:46/3:37 <u>MARC</u> 4:33/4:04
Travel Time Savings over Alternative 1 (Southbound/Northbound)	Minutes: Seconds	Not Applicable	<u>Amtrak Acela</u> 1:44/2:08 <u>Amtrak Regional</u> 1:31/2:00 <u>MARC</u> 0:54/1:57	<u>Amtrak Acela</u> 2:19/2:45 <u>Amtrak Regional</u> 2:07/2:45 <u>MARC</u> 1:28/2:18	<u>Amtrak Acela</u> 2:16/2:43 <u>Amtrak Regional</u> 2:04/2:42 <u>MARC</u> 1:17/2:10
Average Operating Speed (Southbound/Northbound)	MPH	<u>Amtrak Acela</u> 35/34 mph <u>Amtrak Regional</u> 34/34 mph <u>MARC</u> 34/34 mph	<u>Amtrak Acela</u> 54/56 mph <u>Amtrak Regional</u> 50/52 mph <u>MARC</u> 44/52 mph	<u>Amtrak Acela</u> 63/66 mph <u>Amtrak Regional</u> 57/63 mph <u>MARC</u> 49/57 mph	<u>Amtrak Acela</u> 65/68 mph <u>Amtrak Regional</u> 59/65 mph <u>MARC</u> 49/57 mph