



GREENWICH PUBLIC SCHOOLS

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April 1, 2016

The School Start Time Steering Committee is pleased to share a preliminary, yet inclusive range of bell time options, which are under consideration for adoption in the Greenwich Public Schools effective Fall 2017. The seven options were generated by School Bus Consultants (SBC) and are based on many of the options originally identified by the School Start Time (SST) Steering Committee in the Fall 2015. The Steering Committee was presented all seven options for review at their bimonthly, public meeting on March 18, 2016. While posted on the SST Web page, the options will be widely distributed to parents, staff and community on Friday, April 1, prior to the first community engagement session on April 6, 2016, at Central Middle School.

SBC has developed seven options, which are juxtaposed to the current bell schedules. Each of the seven options presents start and end times for our elementary and secondary schools and budget implications. The estimated amount of extra sleep time minutes gained for high school students is also included under each option. The options are accompanied by a set of comments from SBC for further consideration.

As has been widely announced, there are a series of town-wide engagement sessions planned for April and May, as well as an online response form, that will allow parents, staff, students and the community to share their feedback on the options under consideration. A comprehensive list of dates and times for the engagement sessions can be accessed on the district's website at: www.greenwichschools.org/sst. The important dates are also shared below as a reminder. Finally, a parent, student and staff survey will be disseminated from April 13 - 27, 2016. The survey will provide another opportunity for the district to further ascertain preferences and perspectives regarding the bell-time options.

Important Dates:

- | | |
|--------------------|---|
| April 6, 7:00 pm | Community Engagement Session (CES) -Presentation of Options - Central Middle School |
| April 7, 9:00 am | CES-Presentation of Options – Greenwich Public Library |
| April 7, 7:00 pm | BOE Work Session - Havemeyer Boardroom - Presentation of Options by SBC,
No Opportunity for Public Comment |
| April 19, 6:30 pm | CES-Presentation of Options – Boys and Girls Club of Greenwich |
| April 21, 7:00 pm. | BOE Regular Meeting - Riverside School, Opportunity for Public Comment |
| May 12, 7:00 pm | BOE Work Session – North Street School - Superintendent presents Start Time
recommendation to BOE, No Opportunity for Public Comment |
| May 23, 7:00 pm | CES on Superintendent Recommendation – Central Middle School |
| May 24, 9:00 am | CES on Superintendent Recommendation – Town Hall Meeting Room |
| May 26, 7:00 pm | BOE Regular Meeting – Western Middle School, Opportunity for Public Comment |
| June 14, 7:00 pm | BOE Regular Meeting - New Lebanon School, BOE votes on the Superintendent's
Recommendation, Opportunity for Public Comment |

Greenwich Public Schools - Bell Time Changes
Transportation Impact Analysis - Summary of Options

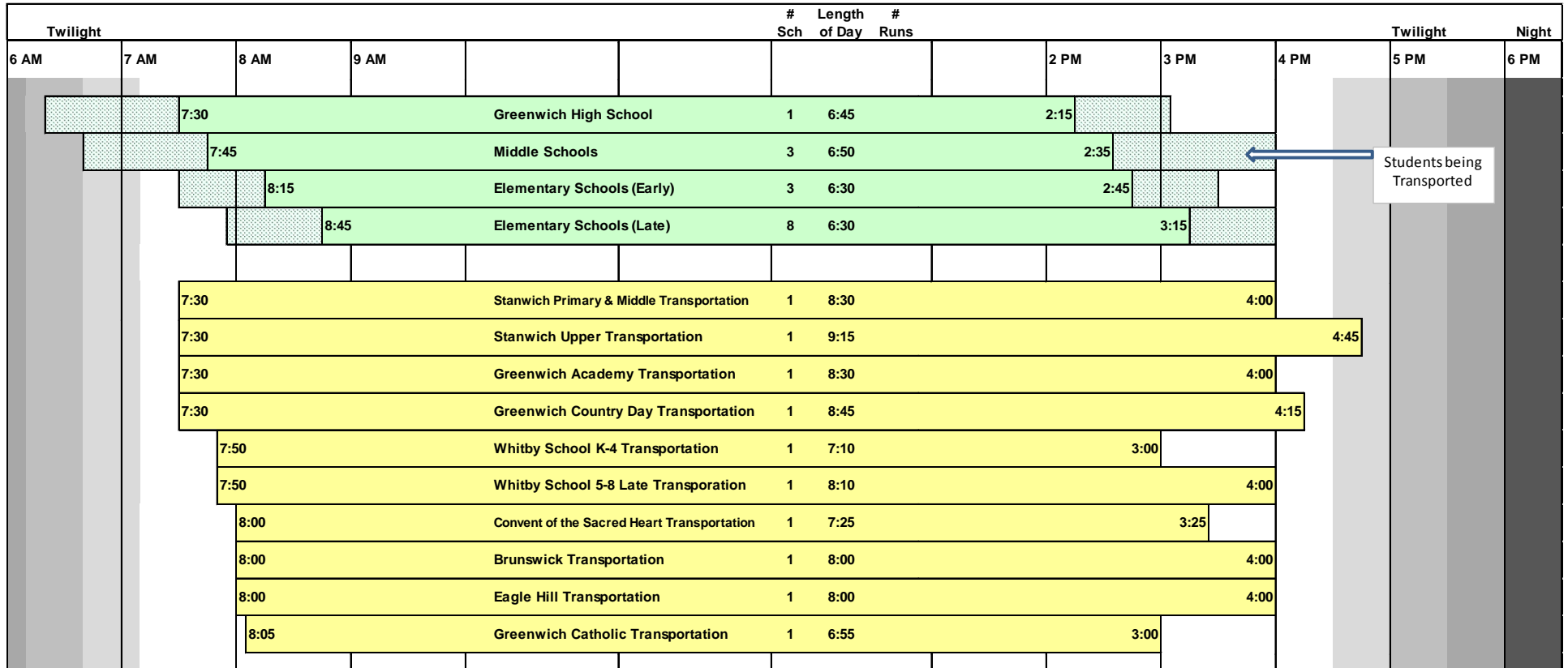
Daily Runs per Bus:	Baseline	Option 1	Option 2	Option 3	Option 4	Option 5	Option 6	Option 7
1	2	18	0	0	9	11	3	6
2	6	0	18	48	18	7	17	10
3	13	6	4	6	13	37	11	16
4	38	31	48	19	39	26	25	9
5	5	16	1	10	0	0	14	26
6	1	0	0	0	0	0	0	0
Average Runs per Bus	3.64	3.38	3.43	2.89	3.04	2.96	3.43	3.58
Total Buses	65	71	70	83	79	81	70	67
Bus Change %		9.2%	7.7%	27.7%	21.5%	24.6%	7.7%	3.1%
Cost Change Estimate		540,000	450,000	1,620,000	1,260,000	1,440,000	450,000	180,000
Bell Times								
High School	7:30 2:15	8:15 3:00	8:45 3:30	8:00 2:45	8:00 2:45	8:30 3:15	8:30 3:15	8:45 3:30
Middle Schools	7:45 2:35	7:45 2:35	7:45 2:35	8:15 3:05	8:15 3:05	8:45 3:35	8:45 3:35	9:30 4:20
Early Elementary Schools	8:15 2:45	7:30 2:00	7:30 2:00	8:45 3:15	9:15 3:45	9:15 3:45	9:45 4:15	8:00 2:30
Late Elementary Schools	8:45 3:15							
Independent Schools	<i>Unchanged</i>							
High School Change		0:45	1:15	0:30	0:30	1:00	1:00	1:15

Assumptions & Comments:

- 1 All existing bus runs remain intact in all scenarios.
- 2 Bus runs were linked into new bus routes based to eliminate run time conflicts and to utilize available deadhead/ layover slack time.
- 3 Special needs runs were deliberately left out of the analysis, assuming they will conform to any new bell schedule.
- 4 All private school bell times were left unchanged in all scenarios.
- 5 Private school shuttles have not been addressed in these scenarios.
- 6 Other key constraints include:
 - Avoid civil twilight violations; and
 - Keep all instructional day lengths intact.

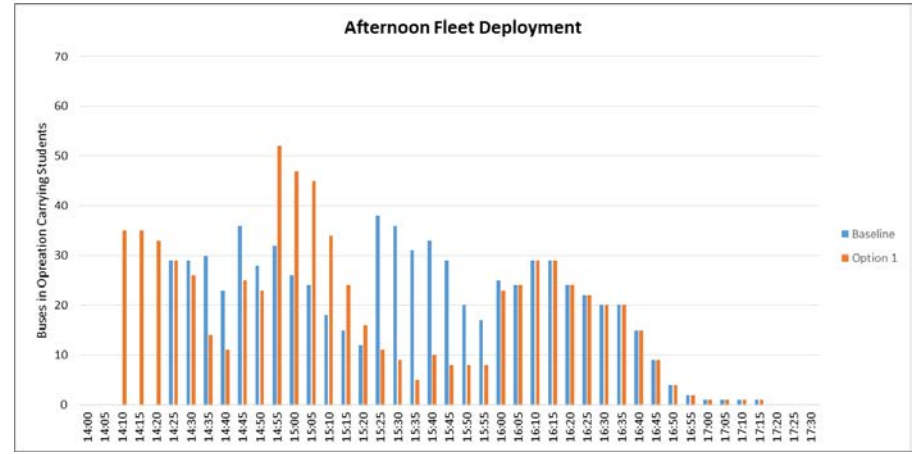
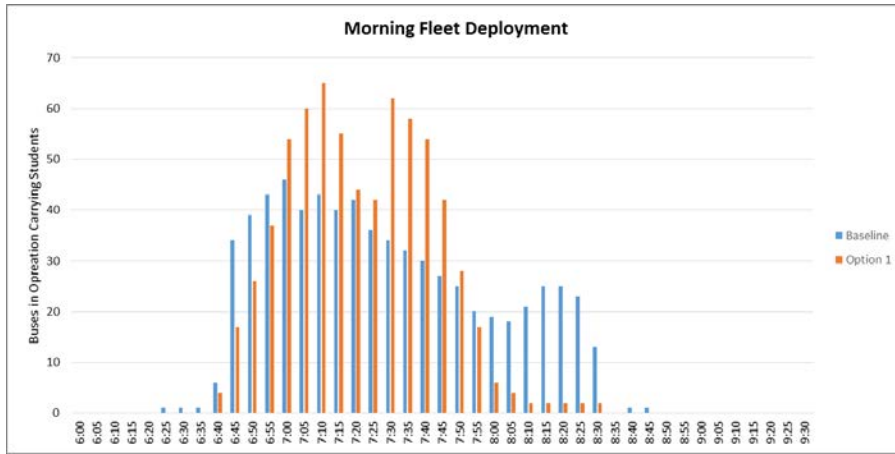
Current Baseline Bell Times

Greenwich Public Schools - Transportation & Bell Times



Students being Transported

Option 1

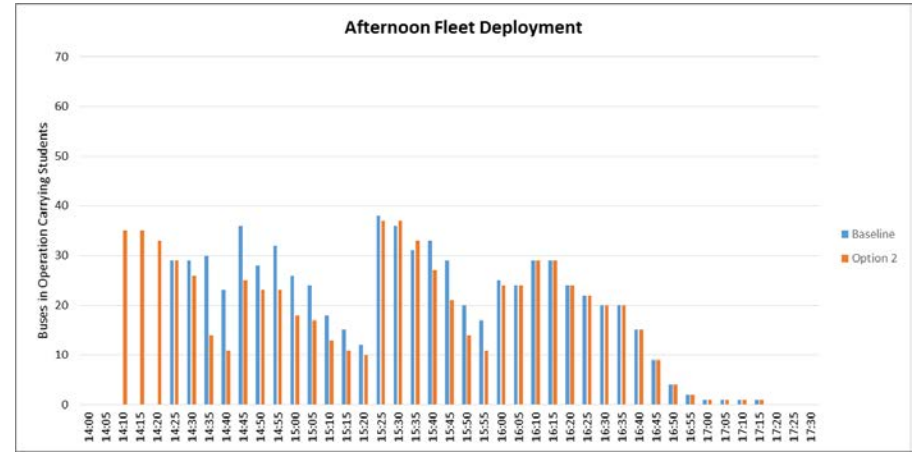
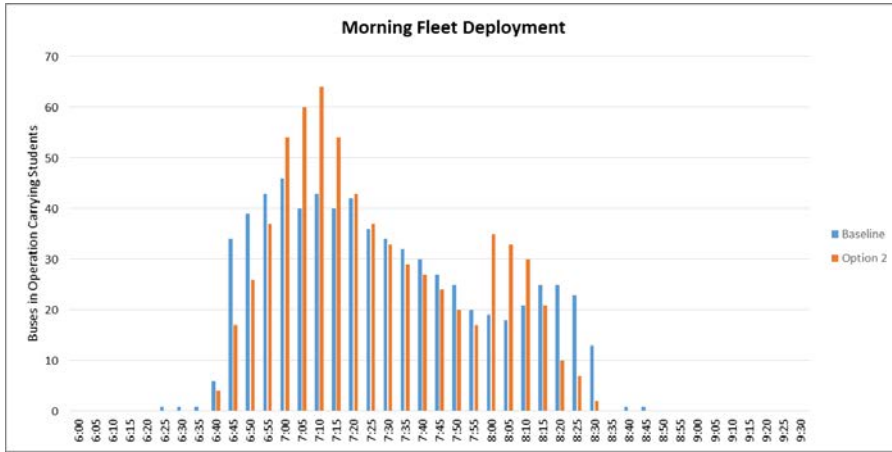


Option 1												
		# Sch	Length of Day	# Runs								
6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM
	7:30	Elementary Schools (All)		11	6:30	2:00						
	7:45	Middle Schools		3	6:50	2:35						
	8:15	Greenwich High School		1	6:45	3:00						
	7:30	Stanwich Primary & Middle Transportation		1	8:30	4:00						
	7:30	Stanwich Upper Transportation		1	9:15	4:45						
	7:30	Greenwich Academy Transportation		1	8:30	4:00						
	7:30	Greenwich Country Day Transportation		1	8:45	4:15						
	7:50	Whitby School K-4 Transportation		1	7:10	3:00						
	7:50	Whitby School 5-8 Late Transportation		1	8:10	4:00						
	8:00	Convent of the Sacred Heart Transportation		1	7:25	3:25						
	8:00	Brunswick Transportation		1	8:00	4:00						
	8:00	Eagle Hill Transportation		1	8:00	4:00						
	8:05	Greenwich Catholic Transportation		1	6:55	3:00						

Additional Buses Required: 6
 Estimated Additional Annual Cost: \$540,000
 High School Sleep Time Gained: 0:45

- Comments:
- Twilight violation exist for some ES students
 - Accomplishes the narrow goal of moving HS later
 - ES starts earlier (-0:45 or -1:15)
 - Some tiering efficiency is lost due to generally longer HS runs placed in middle of the pattern

Option 2

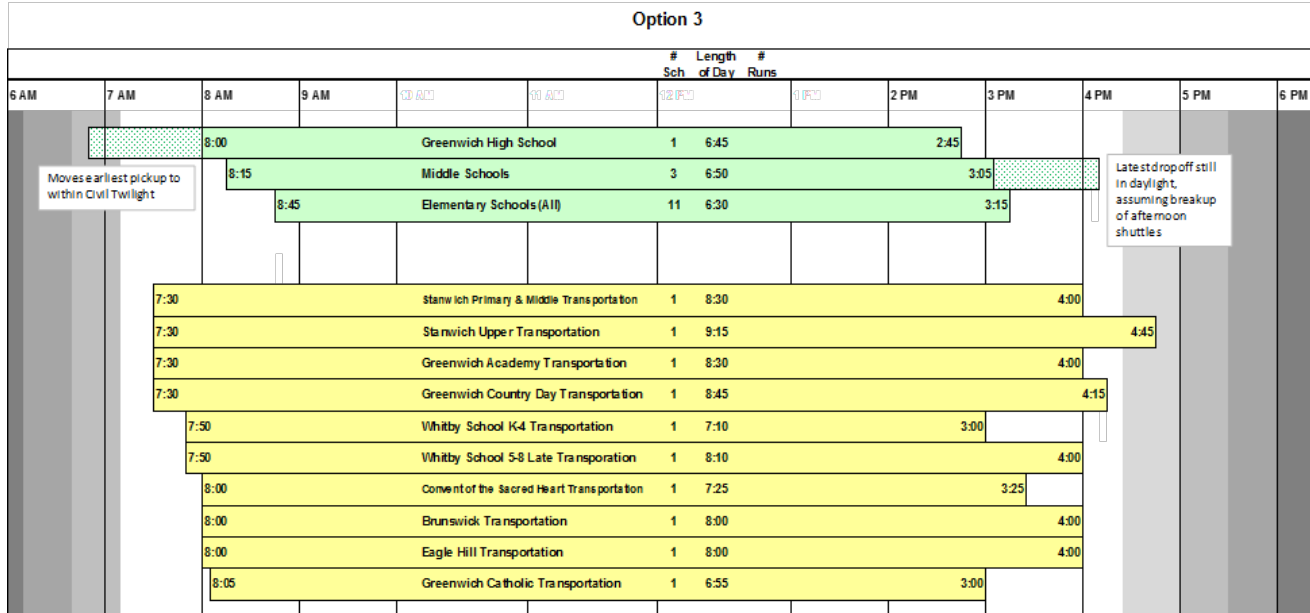
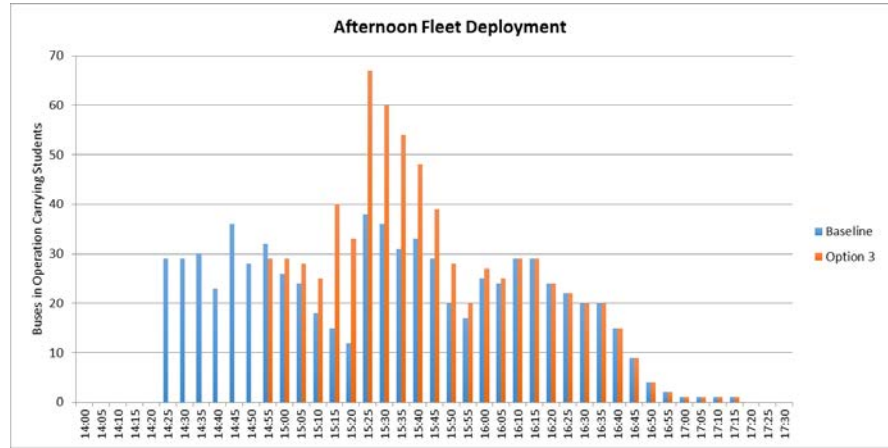
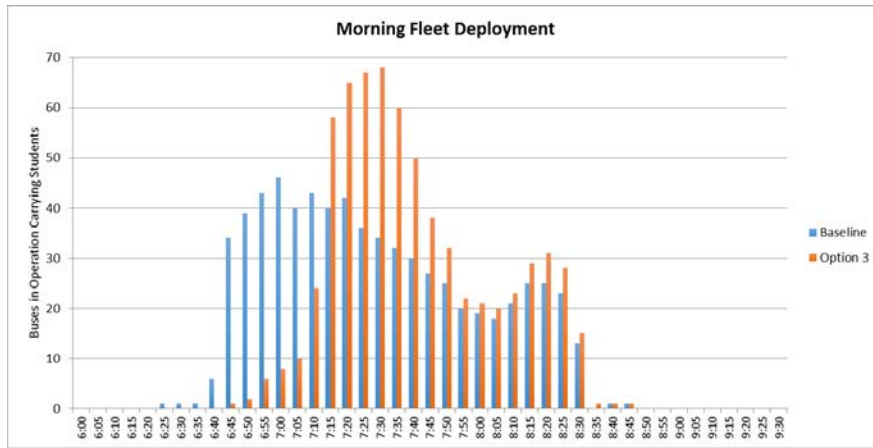


		Option 2		# Sch	Length of Day	# Runs							
6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	
		7:30	Elementary Schools (All)					11	6:30	2:00			
		7:45	Middle Schools					3	6:50	2:35			
		8:45	Greenwich High School					1	6:45	3:30			
	7:30	Stanwich Primary & Middle Transportation					1	8:30	4:00				
	7:30	Stanwich Upper Transportation					1	9:15	4:45				
	7:30	Greenwich Academy Transportation					1	8:30	4:00				
	7:30	Greenwich Country Day Transportation					1	8:45	4:15				
	7:50	Whitby School K-4 Transportation					1	7:10	3:00				
	7:50	Whitby School 5-8 Late Transportation					1	8:10	4:00				
	8:00	Convent of the Sacred Heart Transportation					1	7:25	3:25				
	8:00	Brunswick Transportation					1	8:00	4:00				
	8:00	Eagle Hill Transportation					1	8:00	4:00				
	8:05	Greenwich Catholic Transportation					1	6:55	3:00				

Additional Buses Required: 5
 Estimated Additional Annual Cost: \$450,000
 High School Sleep Time Gained: 1:15

- Comments:
- Same as Option 1, but with later HS start
 - Accomplishes the narrow goal of moving HS later
 - ES starts earlier (-0:45 or -1:15)
 - Tiering efficiency is regained (compared to Option 1) but only in PM, leaving AM constraint prevalent in determining cost

Option 3

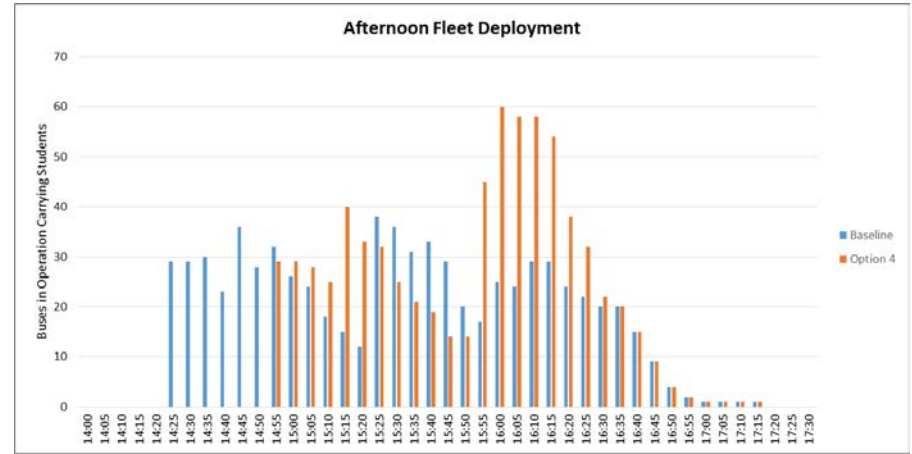
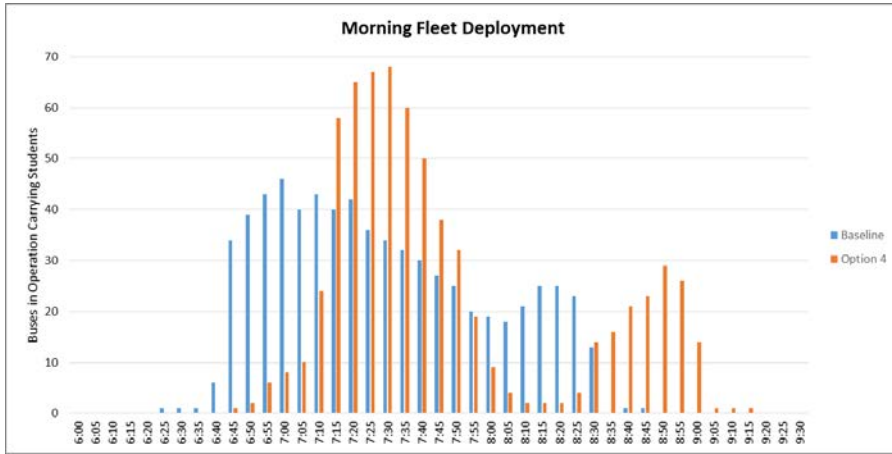


Additional Buses Required: 18
 Estimated Additional Annual Cost: \$1,620,000
 High School Sleep Time Gained: 0:30

Comments:

- This is the most expensive option modeled
- Also results in the smallest change to HS start time
- MS and some ES also gain 0:30 of later start time
- Additional “stacking” of bus runs at core times causes largest loss of tiering efficiency, and highest additional cost

Option 4

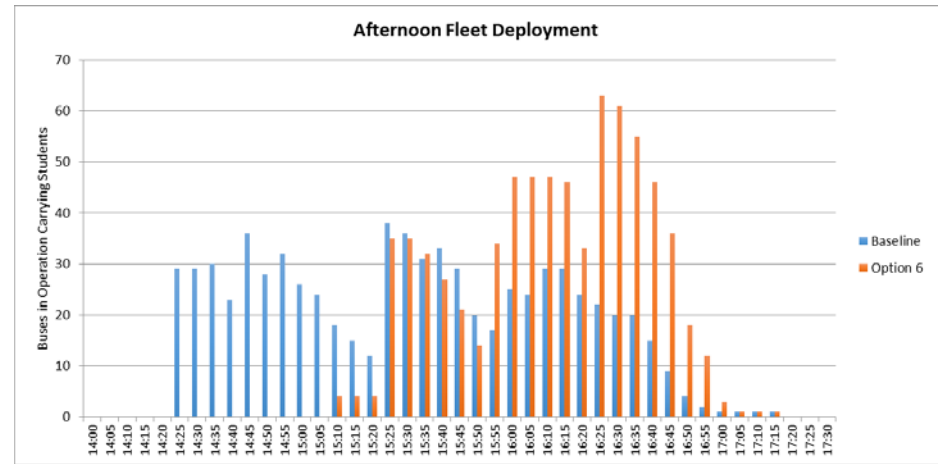
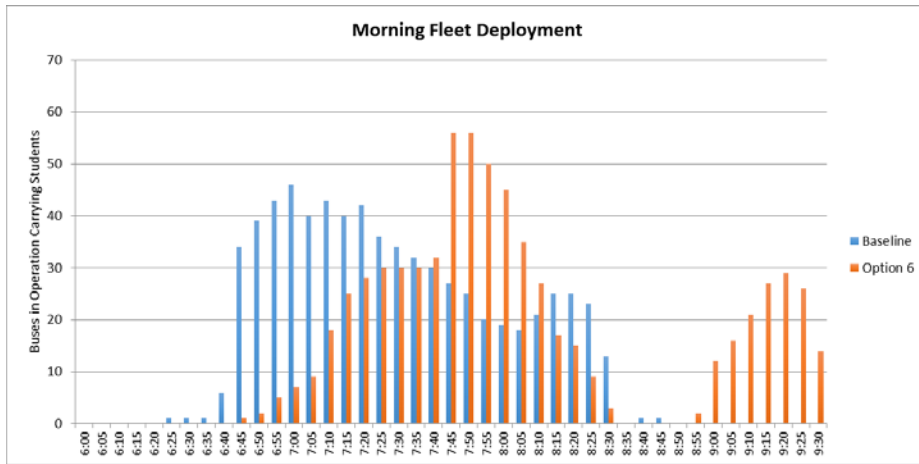


Option 4												
6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM
		# Sch	Length of Day	# Runs								
		8:00	Greenwich High School	1	6:45	2:45						
		8:15	Middle Schools	3	6:50	3:05						
		8:15	Elementary Schools (All)	3	6:30	3:45						Late dropoffs for ES, but no twilight violations
	7:30		Stanwich Primary & Middle Transportation	1	8:30	4:00						
	7:30		Stanwich Upper Transportation	1	9:15	4:45						
	7:30		Greenwich Academy Transportation	1	8:30	4:00						
	7:30		Greenwich Country Day Transportation	1	8:45	4:15						
	7:50		Whitby School K-4 Transportation	1	7:10	3:00						
	7:50		Whitby School 5-8 Lab Transportation	1	8:10	4:00						
	8:00		Convent of the Sacred Heart Transportation	1	7:25	3:25						
	8:00		Brunswick Transportation	1	8:00	4:00						
	8:00		Eagle Hill Transportation	1	8:00	4:00						
	8:05		Greenwich Catholic Transportation	1	6:55	3:00						

Additional Buses Required: 14
 Estimated Additional Annual Cost: \$1,260,000
 High School Sleep Time Gained: 0:30

- Comments:
- Same as Option 3, but with later ES start
 - Moves latest drop-offs in the afternoon from the MS to the ES level, but no Civil Twilight violations result (barely).
 - Moves PM deployment peak later, but with only a marginal impact on lowering demand, and therefore cost.

Option 6



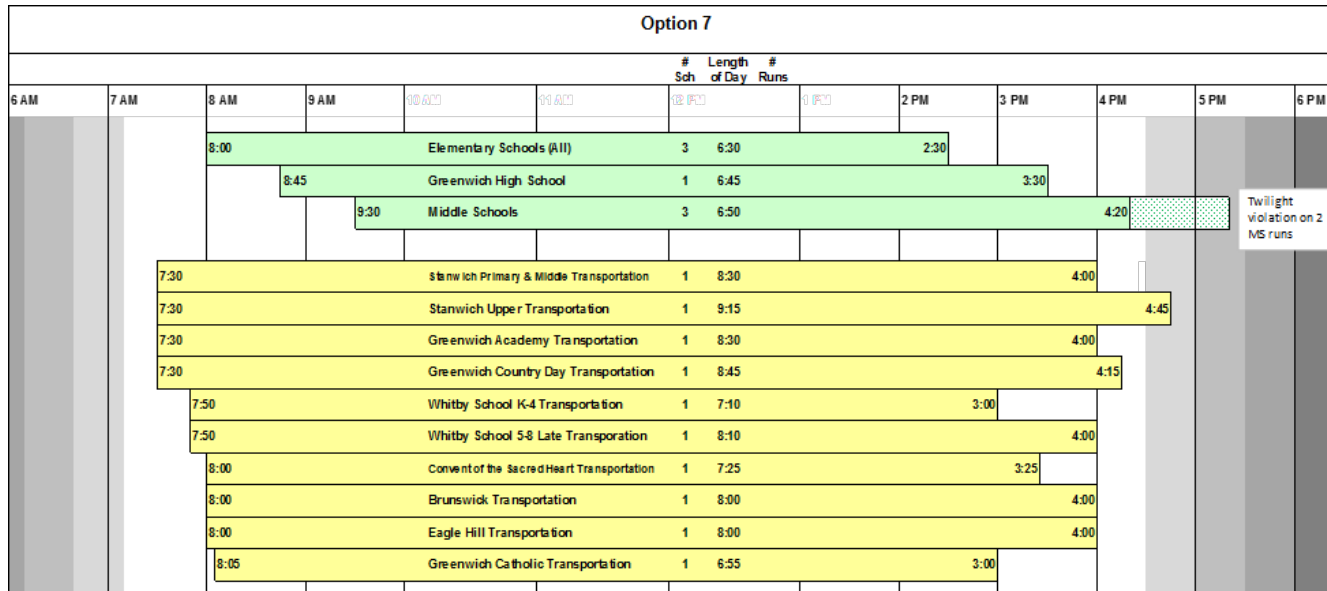
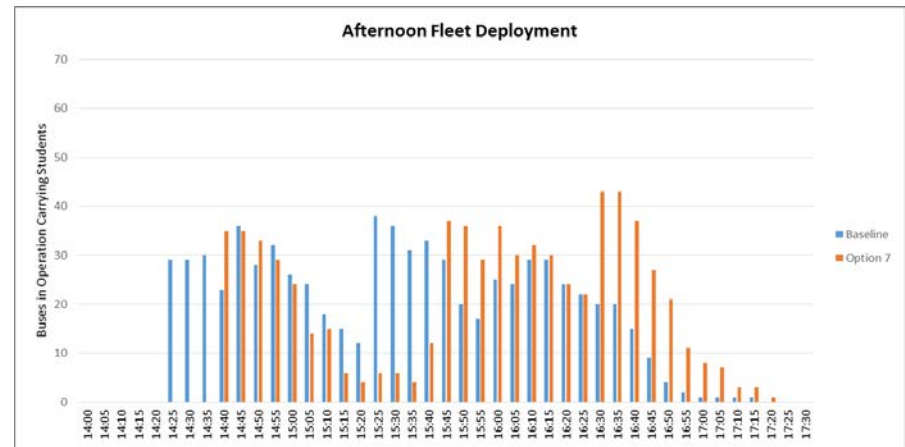
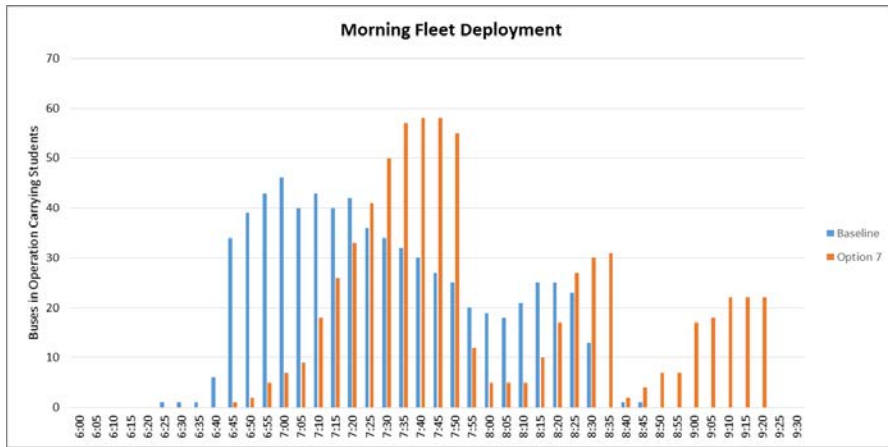
Option 6													
		# Sch	Length of Day	# Runs									
6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	12 PM	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	
		8:30	Greenwich High School		1	8:45						3:15	
		8:45	Middle Schools		3	8:50						3:35	
		8:45	Elementary Schools (All)		3	8:50						4:15	Twilight violation for ES, PM only, last stop only
	7:30	Stanwich Primary & Middle Transportation		1	8:30						4:00		
	7:30	Stanwich Upper Transportation		1	9:15						4:45		
	7:30	Greenwich Academy Transportation		1	8:30						4:00		
	7:30	Greenwich Country Day Transportation		1	8:45						4:15		
	7:50	Whitby School K-4 Transportation		1	7:10						3:00		
	7:50	Whitby School 5-8 Late Transportation		1	8:10						4:00		
	8:00	Convent of the Sacred Heart Transportation		1	7:25						3:25		
	8:00	Brunswick Transportation		1	8:00						4:00		
	8:00	Eagle Hill Transportation		1	8:00						4:00		
	8:05	Greenwich Catholic Transportation		1	8:55						3:00		

Additional Buses Required: 5
 Estimated Additional Annual Cost: \$450,000
 High School Sleep Time Gained: 1:00

Comments:

- Same as Option 5, but pushes ES start time even later
- Solves the afternoon stacking issue in Option 5, enabling much more efficient tiering, and significantly lower cost
- However, twilight constraint is violated for a small number of ES students (final stop on 3 bus runs would be after Civil Twilight)

Option 7



Additional Buses Required: 2
 Estimated Additional Annual Cost: \$180,000
 High School Sleep Time Gained: 1:15

- Comments:
- Twilight violation for small number of MS students
 - Maximum start time gain for HS students of all options
 - MS also gains 1:45; ES starts earlier than current (-0:15 or - 0:45)
 - Maximum tiering efficiency is gained, resulting in lowest cost of all options except baseline; A high potential for net-zero cost impact on refinement of this model

School Start Time Community Engagement Sessions

What are the options for change under current consideration?

The Greenwich Public Schools is exploring a possible change of K-12 school start and dismissal times. The Superintendent will present a recommendation to the Board of Education on May 12, 2016. Prior to that recommendation, the following Community Engagement Sessions are planned in order to provide the community with an opportunity to understand and discuss the options.

Community Engagement Session I

Presentation of School Start Time Options and Analysis

April 6, 2016	7:00 - 9:00 p.m.	Central Middle School Auditorium
April 7, 2016	9:00- 11:00 a.m.	Greenwich Public Library Auditorium
April 19, 2016	6:30-8:30 p.m.	Boys and Girls Club

The April 6 and 7 session will be conducted by Greenwich Public Schools' consultant School Bus Consultants (SBC*) and present various start time options. Session I will be taped and re-presented at the Community Engagement Session on April 19, allowing for additional community feedback and sharing of perspectives. Childcare provided at evening sessions.

Community Engagement Session II

Final SST Recommendation

May 23, 2016	7:00-8:30 p.m.	Central Middle School Auditorium
May 24, 2016	9:00-10:30 a.m.	Town Hall Meeting Room

SBC will share final recommended option(s) for school start times and a plan to implement the recommendations, if applicable.

Additional opportunities to follow the development of the options:

Board of Education Meetings

**Public Hearing Opportunity

- April 7, 7p @ Havemeyer
- ** April 21, 7p @ Riverside School
- May 12, 7p @ North Street School
- ** May 26, 7p @ Western Middle School
- June 2, 7p @ Havemeyer
- ** June 14, 7p @ New Lebanon School

School Start Time Steering Committee

Public Meetings - No Public Hearing/Comments

- April 21, 11:15 am @ Havemeyer Building
- May 3, 10:30 am @ Havemeyer Building
- May 19, 11:15 am @ Havemeyer Building
- June 10, 9:30 am @ Havemeyer Building

For more information: www.greenwickschools.org/sst