# Facility Design Selection – 13<sup>th</sup> High School

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October 21, 2015



#### Purpose

- Feedback from some School Board members:
  - Patriot prototype is too expensive
  - School Division needs more seats in the 13<sup>th</sup> High School
- Developed a "Hybrid" Design
  - Limited modifications to avoid complete redesign of the facility
  - Provides cost savings and increases the overall value
  - Allows for a 2020 opening of the 13<sup>th</sup> High School



### Battlefield Prototype – Modifications

Item	Cost	
Code Update Requirements		
Add Vestibules to entrances	\$	750,000
Electrical upgrades; install motion sensors in rooms	\$	200,000
Install dimmable LED lights	\$	-
Building envelope and roof changes - new energy code	\$	400,000
Mechanical system / HVAC upgrades - new energy code	\$	750,000
Firewall changes required	\$	500,000
Seismic code changes	\$	300,000
Additional women's bathroom facilities	\$	250,000
ADA requirements for Auditorium	\$	500,000
Code Update Requirements Total	\$	3,650,000
Other Changes		
Change Weight Room to Fitness Center - Curriculum Req.	\$	630,000
Install larger windows and some skylights	\$	1,300,000
Total Battlefield modifications	\$	5,580,000

## Patriot Prototype Cost-Reduction Modifications

Item	Cost Reduction	
Modify building exterior; simplify architecture	\$	2,000,000
Modify roof system to flat roof	\$	3,000,000
Reduce auditorium capacity from 1,200 to 800	\$	1,250,000
Total	\$	6,250,000

### Prototype Cost Comparison

Item	Value	
Estimated Cost Differential — Patriot - Battlefield Prototype	\$18	8,300,000
Battlefield prototype – Facility modifications (net price increase for Battlefield)	\$	5,580,000
Patriot prototype – Facility modifications (net price decrease for Patriot)	\$	(6,250,000)
New Cost Differential — Patriot (modified) - Battlefield (modified)	\$ (	6,470,000

#### Creating Additional Capacity –

Patriot Redesign Increasing Capacity Effectively

- Reconfiguration of existing classrooms yields 7 additional classrooms
  - Capacity for 147 additional students
- Construct second floor atop CTE area
  - Yields 17 additional classrooms
  - Capacity for 357 additional students
  - 15,000 square feet
  - Estimated cost => \$3,375,000
  - Cost per Student = \$9,454, versus \$35,000 overall
  - Adds additional capacity within the existing footprint



### Cost per Student Comparison

Prototype	Capacity	2018 Building- Only Cost	Cost per Student	
Battlefield (with modifications)	2,053	\$ 75,000,000	\$ 36,532	
Patriot Redesign Increasing Capacity				
Effectively	2 557	¢ 94 975 000	¢ 22 102	
- reconfiguration => + 7 classrooms	2,557	\$ 84,875,000	\$ 33,193	
- construction => + 17 classrooms				

#### Administrative Recommendation

- Approve use of the Patriot Redesign Increasing Capacity Effectively
  - Modified exterior and simplified architecture
  - Maintains the high percentage of classes receiving daylighting
  - Modern, energy-efficient design
  - Potential to add capacity
    - Reconfiguration adds 7 classrooms, 147 seats
    - Second story atop CTE adds 17 classrooms, 357 seats
  - Increases capacity by 504 students
  - Reduces cost per student below that of Battlefield design prototype













