

Contingencies

| Owner's Contingency | | |
|--------------------------|----------------------|--------------------------|
| \$ Original | \$ Remaining Current | \$ Remaining Anticipated |
| \$0 | \$0 | \$0 |
| Construction Contingency | | |
| \$ Original | \$ Remaining Current | \$ Remaining Anticipated |
| \$0 | \$0 | \$0 |
| TBD | | |
| \$ Original | \$ Remaining Current | \$ Remaining Anticipated |
| \$0 | \$0 | \$0 |
| TBD | | |
| \$ Original | \$ Remaining Current | \$ Remaining Anticipated |
| \$0 | \$0 | \$0 |

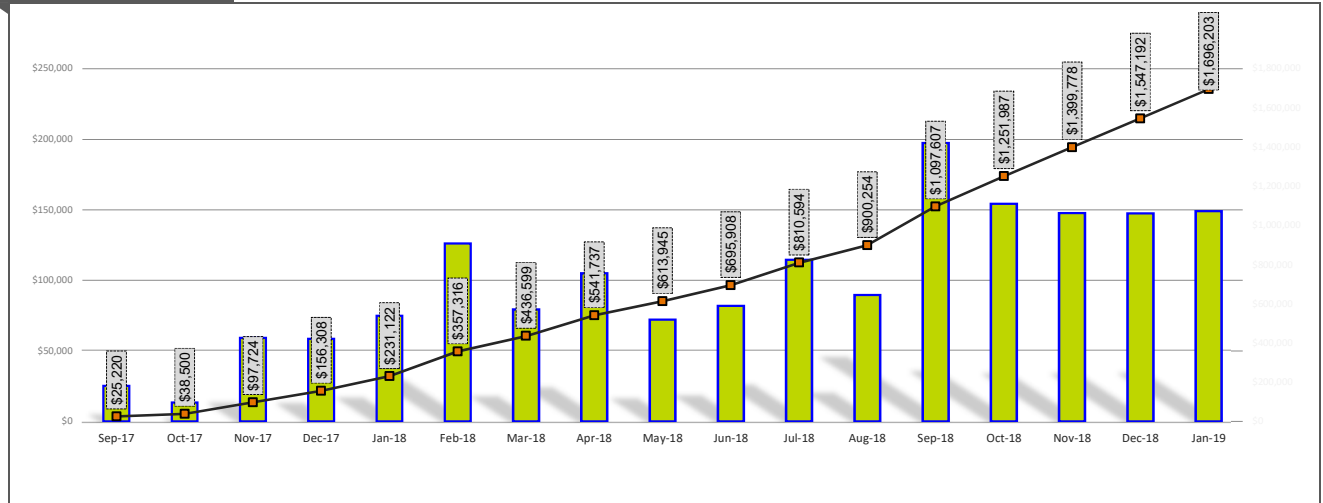
Total Budget: **\$2,000,000**
Cost of work + Contingency

Total Committed: **\$1,870,347** 94%
Contracts / PO's executed

Total Spent: **\$1,399,778** 75%
Amount Invoiced

Cost at Completion: **\$1,870,347** 94%
Committed + Submitted Changes

Cash Flow



Current Pay Period

Pay App No.: 15
 Pay App Amount: **\$147,791.04**

Pro Pay

Amount Submitted: **\$810,593.84**
 Amount Reimbursed: **\$348,554.99**

Change Events

| Change as % of Orig. Budget: | Number | Amount |
|------------------------------|--------|-----------|
| 0.0% | | |
| Approved Changes: | 2 | \$0 |
| Submitted Changes: | 0 | \$0 |
| Pending Changes: | 0 | \$0 |
| Rejected Changes: | 0 | \$0 |
| Approved Budget Transfers: | 2 | \$259,120 |

Key Contracts

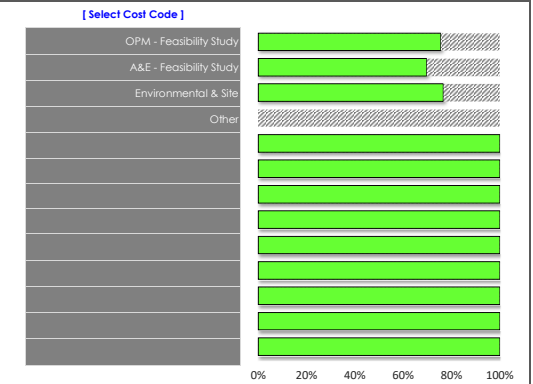
Firm: **Skanska USA Building**
 Original Contract Amount: **\$442,880**
 Contract Changes to Date: **\$0**
 Total Amount: **\$442,880**
 Invoiced to Date: **\$339,811** 77%
 Contract Amount Remaining: **\$103,069**

Firm: **HMFH Architects, Inc.**
 Original Contract Amount: **\$1,158,722**
 Contract Changes to Date: **\$0**
 Total Amount: **\$1,158,722**
 Invoiced to Date: **\$841,684** 73%
 Contract Amount Remaining: **\$317,038**

Firm: **Existing Conditions Survey, Inc.**
 Original Contract Amount: **\$0**
 Contract Changes to Date: **\$81,180**
 Total Amount: **\$81,180**
 Invoiced to Date: **\$56,760** 70%
 Contract Amount Remaining: **\$24,420**

Firm: **Universal Environmental Consultants**
 Original Contract Amount: **\$0**
 Contract Changes to Date: **\$14,850**
 Total Amount: **\$14,850**
 Invoiced to Date: **\$14,850** 100%
 Contract Amount Remaining: **\$0**

Budget vs. Actual



Report By Cost Code - Summary

| | | TOTAL: | \$2,000,000 | \$1,870,347 | (\$129,653) | \$1,399,778 | \$470,569 |
|-----------------------------|-----------|------------------------|------------------|--------------------------|----------------|------------------|-----------|
| Cost Code Description | Cost Code | Approved Budget Amount | Committed Amount | Budget vs. Committed +/- | Invoice Amount | Remaining Amount | |
| Feasibility Study Agreement | 0000-0000 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| OPM - Feasibility Study | 0001-0000 | \$450,000 | \$442,880 | (\$7,120) | \$339,811 | \$103,069 | |
| A&E - Feasibility Study | 0002-0000 | \$1,289,080 | \$1,239,902 | (\$49,178) | \$898,444 | \$341,458 | |
| Environmental & Site | 0003-0000 | \$210,920 | \$187,565 | (\$23,355) | \$161,523 | \$26,042 | |
| Other | 0004-0000 | \$50,000 | \$0 | (\$50,000) | \$0 | \$0 | |

Arlington High School Building Project

Schematic Design Executive Schedule – MSBA Module 4

| | |
|--------------------------|--|
| December 18, 2018 | AHSBC Meeting |
| January 8th, 2019 | AHSBC Meeting |
| January 9, 2019 | Community Tour of AHS |
| January 14, 2019 | SD Documents Available to Estimators |
| January 14, 2019 | Community Forum (Snow Date - 1/16/19) |
| January 22, 2019 | AHSBC Meeting |
| January 28, 2019 | Estimates due |
| January 29, 2019 | First Estimate Reconciliation Meeting (HMFH/Skanska) |
| January 29, 2019 | AHSBC Meeting – Estimate Update and/or VE Discussion |
| January 30, 2019 | Second Estimate Reconciliation Meeting (HMFH/Skanska) |
| January 31, 2019 | (Placeholder) AHSBC Meeting – Further VE Discussion |
| February 5, 2019 | AHSBC Meeting – Approve Total Project Budget for MSBA Submission |
| February 12, 2019 | AHSBC Meeting – Approve Submission of the SD Report to MSBA |
| February 20, 2019 | SD Submission to MSBA |
| April 20, 2019 | MSBA Board Meeting – Approve Project Scope & Budget |

- = Scheduled AHSBC Meetings
- = Community Outreach
- = Project Team Critical Dates

Arlington High School
MSBA Project Benchmarks - DRAFT

| | | MSBA Project Benchmarks | | | | |
|------------------------------|---|---|---|---|---|-------------------------------------|
| | | Arlington HS | Waltham HS (Vocational Included)** | Belmont HS (Upper Middle Included) | Saugus HS-MS (Upper Middle Included) | Somerville HS (Vocational Included) |
| Base Info | Phase | Module 4, Schematic Design | Module 4, Schematic Design | Module 5, Funding the Project | Module 6, Detailed Design | Module 7, Construction |
| | Project Type | New Construction (Phased/Occupied) | New Construction (Unoccupied) | Addition/Renovation (Occupied) | New Construction (Unoccupied) | Addition/Renovation (Occupied) |
| | Date Approved by District | Targeting: Spring, 2019 | TBD | Fall, 2018 | Summer, 2017 | Fall, 2016 |
| | Design Enrollment | 1,755 | 1,830 | 2,215 | 1,360 | 1,590 |
| PSR Stage Raw Data | Total Construction Cost | \$238,072,994 | Unknown | \$237,594,715 | \$127,885,357 | \$199,191,461 |
| | Total Project Cost | \$308,278,341 | \$381,292,924 | \$295,824,264 | \$160,860,953 | \$255,997,997 |
| | Total Gross Sq. Ft. | 415,400 | 429,638 (64,870 vocational) | 445,100 | 271,320 | 373,373 (64,950 vocational) |
| | Total Gross Sq. Ft. of Non-Educational Program Space | 53,575 | Unknown | 12,532 | 0 | 2,400 |
| | Construction Cost Per Sq. Ft. | \$573 | Unknown | \$534 | \$471 | \$533 |
| | Project Cost Per Pupil | \$175,657 | \$208,357 | \$133,555 | \$118,280 | \$161,005 |
| PSR Adjusted For Escalation* | Total Project Cost Escalated to AHS Schedule | \$308,278,341 | \$381,292,924*** | \$339,581,507 | \$188,852,407 | \$291,282,294 |
| | Construction Cost Per Sq. Ft. | \$573 | Unknown | \$585 | \$533 | \$597 |
| | Project Cost Per Pupil | \$175,657 | \$208,356 | \$153,310 | \$138,862 | \$183,196 |
| MSBA Citation | http://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/About_Us/Board_Meetings/2018_Board/8_29_18/Arlington%20HS%20PS%20Memo_Final.pdf | http://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/About_Us/Board_Meetings/2018_Board/8_29_18/Waltham%20FSA%20Extension%20of%20Time%20Memo_Final.pdf | http://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/About_Us/Board_Meetings/2018_Board/6_27_18/Belmont%20PS%20Memo_Final.pdf | http://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/About_Us/Board_Meetings/2017_Board/2_15_17/Saugus%20PSR%20BoD%20Memo_Final.pdf | http://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/About_Us/Board_Meetings/2016_Board/7_20_16/Somerville_PS_Memo_Final.pdf | |

*The Total Project Costs have been escalated to the AHS midpoint of construction. We are using the industry standard of 4% annual escalation.

**Waltham Process Notes: Waltham began the feasibility study process in 2016 and produced estimates for two sites that ranged from \$283 million to \$300 million. Neither of these town-owned sites were feasible, and in June 2018 the town council voted to use eminent domain to buy property for a new school. The shown Waltham Total Project Cost have been approved by the Waltham SBC in preparation for the 12/14/18 PSR Submission (Citation from 12/3/18 Meeting Minutes: <https://drive.google.com/file/d/18i8GaBMYgmIAD0wOvz00HrYLoZQEORq-/view>)

***Waltham's budget has not been escalated as the construction midpoint is projected to be 4 months ahead of AHS.

Arlington High School
MSBA Project Benchmarks (cont.) - DRAFT

Comparison of MSBA Space Summary / Total Project Budget Forms

| Proposed Space Summary (Based on PSR Submission) | Arlington HS | Belmont HS-MS | Saugus HS-MS | Somerville HS |
|---|-------------------|-------------------|-------------------|-------------------|
| | area totals (GFA) | area totals (GFA) | area totals (GFA) | area totals (GFA) |
| Core Academic Spaces | 87,680 | 111,280 | 76,390 | 69,155 |
| Special Education | 31,560 | 24,310 | 13,680 | 19,959 |
| Art & Music | 15,200 | 16,150 | 13,250 | 11,120 |
| Auditorium/Drama | 12,440 | 14,200 | 10,400 | 10,800 |
| Vocations & Technology | 19,200 | 19,400 | 9,100 | 64,950 |
| Health & Physical Education | 37,208 | 54,642 | 28,150 | 39,829 |
| Library Learning Commons | 12,550 | -- | -- | -- |
| Media Center | -- | 13,744 | 8,400 | 7,500 |
| Dinning & Food Service | 13,708 | 16,698 | 11,540 | 12,035 |
| Medical | 1,510 | 2,140 | 1,320 | 1,310 |
| Administration & Guidance | 6,158 | 8,200 | 6,005 | 11,035 |
| Custodial & Maintenance | 2,942 | 4,347 | 2,645 | 2,818 |
| Other / Non-Programmed Spaces | 53,537 | 12,532 | 0 | 2,400 |
| Total Building Gross Floor Area (GFA) | 415,292 | 445,100 | 271,320 | 402,128 |

| Other / Non-Program Spaces | Area Totals (GFA) |
|------------------------------|-------------------|
| Arlington HS* | 53,537 |
| Comptroller | 1,350 |
| Facilities Department | 5,475 |
| IT Network and Offices | 4,725 |
| Payroll | 2,325 |
| Community Education | 2,700 |
| School District Offices | 13,380 |
| LABBB | 6,810 |
| Menotomy Preschool | 16,810 |
| Belmont HS-MS | 12,532 |
| Technology Workroom | 900 |
| Technology Offices | 150 |
| Technology Director Office | 400 |
| Technology Conference Room | 200 |
| Equity Academic Center | 850 |
| Metco Office | 150 |
| BEA Office | 150 |
| Food Service Director | 150 |
| Nurse's Office/ Waiting | 150 |
| Pool Pump Room | 7,447 |
| Locker Room / Pool | 1,620 |
| School Store | 125 |
| Resource Officer | 120 |
| Storage for Emergency Center | 120 |
| Saugus MS-MS | 0 |
| N/A | |
| Somerville HS | 2,400 |
| School Storage | 300 |
| Somerville City Cable | 1,000 |
| Health Suite | 1,100 |

**PLEASE NOTE: Since the PSR submission, The Arlington HS Building Committee has decided, with direction from the Superintendent's Office and the Town Manager's office, to exclude the Comptroller, Facilities Department and IT Department from the AHS Building Project. This will lower the project's "Other/Non-Program Space" to 42,025 GFA.*

| Total Project Budget (Based on PSR Submission) | Arlington HS | Belmont HS-MS | Saugus HS-MS | Somerville HS |
|---|----------------------|----------------------|----------------------|----------------------|
| Feasibility Study Agreement Subtotal | \$2,000,000 | \$1,750,000 | \$1,850,000 | \$1,975,000 |
| Administration Subtotal | \$8,132,555 | \$8,767,000 | \$4,895,026 | \$10,415,356 |
| Architectural/Engineering Subtotal | \$21,166,934 | \$20,800,000 | \$11,739,816 | \$21,482,008 |
| Existing Building Demolition | \$3,136,000 | \$1,836,375 | \$1,313,375 | \$7,406,640 |
| In-Bldg. Hazardous Material Abatement | \$3,318,100 | \$6,580,000 | \$3,486,650 | \$0 |
| Asbestos Cont'g Floor Mat'l Abatement | \$780,000 | \$520,000 | \$360,000 | \$0 |
| Building Sitework | \$8,111,665 | Unknown | \$9,135,484 | \$8,661,233 |
| Construction Budget | \$238,072,994 | \$236,647,607 | \$127,685,356 | \$197,820,084 |
| Misc. Project Costs Subtotal | \$800,000 | \$2,740,000 | \$375,000 | \$3,255,200 |
| Furnishings & Equipment | \$11,056,500 | \$7,088,000 | \$3,263,200 | \$5,096,000 |
| Swing Space / Modular / Phasing | \$0* | \$1,000,000 | \$0 | \$2,355,200 |
| Design Enrollment | 1,755 | 2,215 | 1,360 | 1,590 |
| Total Building Gross Square Feet (GSF) | 415,200 | 445,100 | 294,586 | 369,496 |
| MSBA Reimbursement Rate | 49.72% | \$40.66% | 57.72% | 77.44% |
| Total Project Budget (excluding contingencies) | \$282,824,166 | \$278,959,189 | \$152,091,198 | \$240,793,649 |
| Scope Items Excluded or Otherwise Ineligible | \$98,038,794 | \$92,629,827 | \$39,128,388 | \$83,218,254 |
| Construction Contingency | \$16,969,450 | \$14,200,000 | \$7,661,121 | \$11,869,205 |
| Owner's Contingency | \$8,484,725 | \$2,000,000 | \$968,234 | \$1,688,943 |
| Total Project Budget | \$308,278,341 | \$295,159,189 | \$160,720,553 | \$254,351,796 |
| Construction Cost Per Square Foot | \$573 | \$534 | \$471 | \$533 |
| Total Project Cost Escalated to AHS Schedule | \$308,278,341 | \$339,581,507 | \$188,852,407 | \$291,282,294 |
| Const. Cost Per Sq. Ft. Escalated to AHS Schedule | \$573 | \$585 | \$533 | \$597 |
| Project Cost Per Pupil Escalated to AHS Schedule | \$175,657 | \$153,310 | \$138,862 | \$183,196 |

PLEASE NOTE: This information has been taken directly from each project's PSR Submission. These figures have not been escalated to the AHS schedule. Waltham has not been included as their PSR, submitted on 12/14/18 is under review by the MSBA and has not yet been made public.

** The Arlington High School Phasing/Swing Space cost has been included in the overall cost per square foot as well as the Construction Contingency. The current plan does not require modular program spaces..*

Escalation Calculation (as referenced on Benchmark Sheet "Total Project Cost Escalated to AHS Schedule") - DRAFT

| | Construction Schedule | | | Compared to AHS Years | Total Construction Cost | Escalation (4%) | to the midpoint of AHS construction Schedule | Total Escalated Construction Cost | Total Escalated Cost with Soft Cost Factor (1.3) | Total Escalated Cost Per Pupil |
|------------------------------|-----------------------|-----------|------------|-----------------------|-------------------------|-----------------|--|-----------------------------------|--|--------------------------------|
| | Start | End | Midpoint | | | | | | | |
| Arlington HS | 7/1/2020 | 4/1/2025 | 11/15/2022 | | | | | | \$308,278,341 | \$175,657 |
| Newton North HS* | 7/1/2007 | 8/1/2010 | 1/14/2009 | 13.8 | \$166,000,000 | \$6,640,000 | \$91,853,333 | \$285,585,365 | \$371,260,975 | \$200,682 |
| Saugus HS-MS | 7/1/2018 | 9/1/2020 | 8/1/2019 | 3.3 | \$127,885,357 | \$5,115,414 | \$16,625,096 | \$145,271,083 | \$188,852,407 | \$138,862 |
| Belmont HS-MS | 4/1/2019 | 7/1/2021 | 5/16/2020 | 2.4 | \$237,594,715 | \$9,503,789 | \$22,967,489 | \$261,216,544 | \$339,581,507 | \$153,310 |
| Waltham HS** | 1/1/2021 | 1/1/2024 | 7/2/2022 | 0.3 | Unknown | Unknown | Unknown | Unknown | \$381,292,924 | \$208,357 |
| Somerville HS | 6/1/2018 | 5/1/2021 | 11/15/2019 | 3.0 | \$199,191,461 | \$7,967,658 | \$23,902,975 | \$224,063,304 | \$291,282,295 | \$183,196 |
| Wellesley HS | 10/17/2009 | 12/1/2012 | 5/10/2011 | 11.5 | \$115,000,000 | \$4,600,000 | \$52,900,000 | \$180,543,244 | \$234,706,218 | \$158,585 |
| Concord-Carlisle HS | 7/1/2014 | 7/1/2016 | 7/1/2015 | 7.3 | \$93,000,000 | \$3,720,000 | \$27,280,000 | \$123,830,129 | \$160,979,168 | \$129,301 |
| Natick HS | 9/1/2010 | 9/1/2012 | 9/1/2011 | 11.2 | \$73,510,500 | \$2,940,420 | \$32,834,690 | \$114,057,219 | \$148,274,384 | \$115,749 |
| Minuteman Reg. Voc. Tech. HS | 6/19/2017 | 9/25/2019 | 8/7/2018 | 4.3 | \$121,392,277 | \$4,855,691 | \$20,636,687 | \$143,692,605 | \$186,800,386 | \$297,453 |
| Thompson ES | 3/11/2010 | 9/1/2013 | 12/6/2011 | 10.9 | \$15,130,244 | \$605,210 | \$6,606,873 | \$23,201,140 | \$30,161,482 | \$79,372 |
| Gibbs MS | 7/1/2017 | 8/1/2018 | 1/15/2018 | 4.8 | \$19,000,000 | \$760,000 | \$3,673,333 | \$22,935,786 | \$29,816,522 | \$59,633 |

PLEASE NOTE: The Total Project Costs have been escalated to the AHS midpoint of construction. We are using the industry standard of 4% annual escalation.

*Newton North construction schedule and construction cost is assumed from the following citations:

(http://archive.boston.com/news/education/k_12/articles/2010/08/31/197m_later_newton_north_to_open/) (<https://doreandwhittier.com/newton-north-high-school.html>)

**Waltham construction timeline is assumed as a 36 month construction project starting on 7/1/2018 (4 months ahead of the Arlington High School Project). We have not escalated the Waltham budget as the construction midpoint is only 4 months ahead of Arlington's.