AGENDA

1. Review of Meetings & Process
2. Guiding Principles
3. Programming & Ed Spec
4. Group Discussion
5. Building Planning
6. Group Discussion
- Consider taller building adjacent to Old Dominion
- Consider a one-way solution on Vacation Lane and/or 23rd st
- Opportunity for student drop-off outside of the site
- Five points intersection is a big challenge, particularly if traffic to site must enter via Old Dominion
- Parent traffic will be more problematic than buses
- Courtyard scheme is most difficult from historic design perspective
Introductions and Discussion
April 8, 2015

Visioning and Site Planning
April 20, 2015

Site Planning and Massing
May 4, 2015

Programming & Building Planning
May 18, 2015

Preliminary Concepts
June 1, 2015

Concept Development and Value Analysis
June 15, 2015

Preferred Concept and Conclusions
June 29, 2015

Review of School Board Presentation
August 2015, TBD
VALUE STATEMENTS

1. Create stimulating, innovative, adaptable and flexible learning environments that meet the needs of the whole child for years to come.

2. Provide design solutions that are respectful and mindful of the existing context.

3. Provide well considered multimodal transportation solutions that create safe routes to and from school.
VALUE STATEMENTS

4. Provide a high performance building that balances performance, cost, and ease of operation and maintenance.

5. Carefully consider schedule, phasing, and construction logistics to deliver the project on time, while minimizing adverse impacts to ongoing operations of the school and the neighboring community.

6. Provide site solutions which preserve open space resources and create educational and recreational opportunities for the school and the larger community.
PROGRAMMING
ALTERATIONS AND ADDITIONS

1995 North Addition
1995 South Addition
2005 Music Addition
EXISTING PROGRAM

BASEMENT

- Art
- Music
- Performing Art
- Elective
- Building Support

Main Entry
Entry
Back of House
EXISTING PROGRAM

FIRST FLOOR

- Core Classrooms
- Art
- Elective
- Music
- Special Ed.
- Clinic
- Admin
- Building Support
- Performing Arts

Arlington Public Schools
Stratford Middle School - 11
EXISTING PROGRAM

THIRD FLOOR

- Elective
- Media Center
- Core Classrooms

MAIN ENTRY
ENTRY
BACK OF HOUSE

Arlington Public Schools
Stratford Middle School - 13
PRELIMINARY AREA REQUIREMENTS

1 Administration
2 Counseling Services
3 Student Services
4 Clinic
5 Food Services
6 Auxiliary Services
7 Media Center
8 Group Instruction / Performing Arts
9 Core Classrooms
10 Art
11 Music
12 Work & Family Studies
13 Physical Education
14 Technology Education
15 Elective Classrooms
16 Special Education & Instructional Support
17 Custodial Support
18 Building Support
19 Student Spaces
## PROGRAMMING

### AREA REQUIREMENTS - GREATEST NEED (PRELIMINARY)

<table>
<thead>
<tr>
<th>Area Description</th>
<th>Existing (SF)</th>
<th>SSES 1000</th>
<th>DELTA</th>
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<tbody>
<tr>
<td></td>
<td>TOTAL</td>
<td>TOTAL</td>
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<tr>
<td>1. Administration</td>
<td>4235</td>
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<td>870</td>
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<td>3. Student Services</td>
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<td>4. Clinic</td>
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<td>-112</td>
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<td>5. Food Services</td>
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<td>1534</td>
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<td>6. Auxiliary Services</td>
<td>366</td>
<td>4450</td>
<td>4084</td>
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<td>7. Media Center</td>
<td>3604</td>
<td>6825</td>
<td>3221</td>
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<tr>
<td>8. Group Instruction / Performing Arts</td>
<td>8584</td>
<td>8130</td>
<td>-454</td>
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<td>9. Core Classrooms</td>
<td>28412</td>
<td>35180</td>
<td>6768</td>
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<td>5650</td>
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<td>13. Physical Education</td>
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<td>14. Technology Education</td>
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<td>3780</td>
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<td>15. Elective Classrooms</td>
<td>5023</td>
<td>6380</td>
<td>1357</td>
</tr>
<tr>
<td>16. Special Education &amp; Instructional Support</td>
<td>7354</td>
<td>9720</td>
<td>2366</td>
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<tr>
<td>17. Custodial Support</td>
<td>981</td>
<td>1710</td>
<td>729</td>
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<td>18. Building Support</td>
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<td>11960</td>
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<td>19. Student Spaces</td>
<td>86</td>
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<td><strong>TOTALS</strong></td>
<td><strong>95552</strong></td>
<td><strong>± 138740</strong></td>
<td><strong>± 43188</strong></td>
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Grossing Factor

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<td><strong>137889</strong></td>
<td><strong>± 191461</strong></td>
<td><strong>± 59600</strong></td>
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### MIDDLE SCHOOL COMPARISON

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<thead>
<tr>
<th>School</th>
<th>Students</th>
<th>GSF/Student</th>
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<tbody>
<tr>
<td>Swanson</td>
<td>998</td>
<td>137</td>
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<tr>
<td>Williamsburg</td>
<td>1071</td>
<td>167</td>
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<tr>
<td>Jefferson</td>
<td>851</td>
<td>258</td>
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<td>Kenmore</td>
<td>893</td>
<td>231</td>
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<tr>
<td>Gunston</td>
<td>871</td>
<td>240</td>
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</tbody>
</table>

### APS AVERAGE

**203 GSF/Student**

*Excludes H-B Woodlawn 6-12 Program*
30% average percentage of general classrooms that are un-utilized in middle and high schools during any given period.
PROGRAMMING

AUXILIARY SERVICES (STORAGE & TEACHER SPACE) +4000 SF

EXISTING

PROPOSED
a collaborative workspace dedicated
to teacher planning and professional
enrichment

Teacher Work Room

Staff Lounge / Lunch

Conference Room

Teacher Work Space / Student Success Hub
## PROGRAMMING

### CORE CLASSROOMS ±6700 SF

**Core Academic Classrooms**

<table>
<thead>
<tr>
<th>RM #</th>
<th>Room Name</th>
<th>SF</th>
<th>ED Spec Size</th>
<th>Level</th>
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<tbody>
<tr>
<td>318</td>
<td>BIOLOGY</td>
<td>1328</td>
<td>1200</td>
<td>THIRD FLOOR - WEST</td>
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<tr>
<td>314</td>
<td>CHEMISTRY</td>
<td>1175</td>
<td>1200</td>
<td>THIRD FLOOR - WEST</td>
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<tr>
<td>322</td>
<td>PHYSICS</td>
<td>1014</td>
<td>900</td>
<td>THIRD FLOOR - WEST</td>
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<tr>
<td>126</td>
<td>ART / SCIENCE - STRATFORD</td>
<td>954</td>
<td>900</td>
<td>FIRST FLOOR</td>
</tr>
<tr>
<td>128</td>
<td>COMPUTER</td>
<td>950</td>
<td>900</td>
<td>FIRST FLOOR</td>
</tr>
<tr>
<td>124</td>
<td>MIDDLE SCHOOL</td>
<td>927</td>
<td>900</td>
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<tr>
<td>128</td>
<td>MIDDLE SCHOOL</td>
<td>917</td>
<td>700-750</td>
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</tr>
<tr>
<td>319</td>
<td>COMPUTERS</td>
<td>914</td>
<td>700-750</td>
<td>THIRD FLOOR - WEST</td>
</tr>
<tr>
<td>313</td>
<td>WORLD LANGUAGES / LATIN / ENGLISH</td>
<td>900</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
<tr>
<td>312</td>
<td>ENGLISH</td>
<td>874</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
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<tr>
<td>114</td>
<td>HIGH SCHOOL</td>
<td>843</td>
<td>700-750</td>
<td>FIRST FLOOR</td>
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<tr>
<td>201</td>
<td>SCIENCE / EARTH-SPACE</td>
<td>824</td>
<td>900</td>
<td>SECOND FLOOR</td>
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<tr>
<td>116</td>
<td>HIGH SCHOOL</td>
<td>820</td>
<td>700-750</td>
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<tr>
<td>202</td>
<td>SCIENCE / BIOLOGY</td>
<td>816</td>
<td>900</td>
<td>SECOND FLOOR</td>
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<tr>
<td>110</td>
<td>CORE 6</td>
<td>817</td>
<td>700-750</td>
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<td>310</td>
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<td>810</td>
<td>700-750</td>
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<tr>
<td>111</td>
<td>CORE 6</td>
<td>807</td>
<td>700-750</td>
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<td>329</td>
<td>SOCIAL STUDIES / ANCIENT CIV / WORLD HISTORY / ENGLISH</td>
<td>806</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
<tr>
<td>109</td>
<td>CORE 6</td>
<td>800</td>
<td>700-750</td>
<td>FIRST FLOOR</td>
</tr>
<tr>
<td>318</td>
<td>MATH</td>
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<td>700-750</td>
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</tr>
<tr>
<td>113</td>
<td>HIGH SCHOOL</td>
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</tr>
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<td>112</td>
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<tr>
<td>302</td>
<td>MATH</td>
<td>723</td>
<td>700-750</td>
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<tr>
<td>316</td>
<td>ENGLISH</td>
<td>639</td>
<td>700-750</td>
<td>THIRD FLOOR - WEST</td>
</tr>
<tr>
<td>305</td>
<td>SOCIAL STUDIES / EUROPEAN HISTORY / ECONOMICS</td>
<td>636</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
<tr>
<td>304</td>
<td>WORLD LANGUAGES / FRENCH AND SPANISH</td>
<td>636</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
<tr>
<td>107</td>
<td>MATH</td>
<td>632</td>
<td>700-750</td>
<td>FIRST FLOOR</td>
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<tr>
<td>106</td>
<td>SOCIAL STUDIES</td>
<td>632</td>
<td>700-750</td>
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<td>629</td>
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<td>THIRD FLOOR</td>
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<tr>
<td>105</td>
<td>ENGLISH</td>
<td>625</td>
<td>700-750</td>
<td>FIRST FLOOR</td>
</tr>
<tr>
<td>300U</td>
<td>WORLD LANGUAGES / SPANISH</td>
<td>621</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
<tr>
<td>309</td>
<td>SOCIAL STUDIES</td>
<td>613</td>
<td>700-750</td>
<td>THIRD FLOOR</td>
</tr>
</tbody>
</table>

**TOTAL EXISTING CLASSROOMS:** 32  
**ED SPEC TOTAL CLASSROOMS:** 42
### PROGRAMMING

#### TEAM FOUNDATION

<table>
<thead>
<tr>
<th>Subject</th>
<th>EXISTING</th>
<th>1000 STUDENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math, Language Arts, Social Studies</td>
<td>27 Classrooms</td>
<td>33 Classrooms (11 Teams)</td>
</tr>
<tr>
<td>Science</td>
<td>5 Classrooms</td>
<td>9 Classrooms (9 Teams - Scheduled to accommodate 11 Teams)</td>
</tr>
<tr>
<td>Special Education</td>
<td>±12 Instructional Spaces</td>
<td>17 Instructional Spaces</td>
</tr>
</tbody>
</table>

Assume 21 Students per Class = 881 Students
Assume 10 Students per Space = 170 Students
### MEDIA CENTER, ART, ELECTIVES ±12400 SF

**Existing (SF)**

<table>
<thead>
<tr>
<th>7 Media Center</th>
<th>10 Art</th>
<th>12 Work &amp; Family Studies</th>
<th>14 Technology Education</th>
<th>15 Elective Classrooms</th>
<th>19 Student Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>3604</td>
<td>4260</td>
<td>0</td>
<td>0</td>
<td>5023</td>
<td>86</td>
</tr>
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</table>

**SSES 1000**

<table>
<thead>
<tr>
<th>7 Media Center</th>
<th>10 Art</th>
<th>12 Work &amp; Family Studies</th>
<th>14 Technology Education</th>
<th>15 Elective Classrooms</th>
<th>19 Student Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>6825</td>
<td>4600</td>
<td>3050</td>
<td>3780</td>
<td>6380</td>
<td>750</td>
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</table>

**DELTA**

<table>
<thead>
<tr>
<th>7 Media Center</th>
<th>10 Art</th>
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<th>14 Technology Education</th>
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<th>19 Student Spaces</th>
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</thead>
<tbody>
<tr>
<td>3221</td>
<td>340</td>
<td>3050</td>
<td>3780</td>
<td>1357</td>
<td>664</td>
</tr>
</tbody>
</table>

**TOTAL**

| 12973 | 25385 | 12412 |

**PROGRAMMING**

- Media Center, Art, Electives ±12400 SF

**Quinn Evans Architects**
• Ed Spec Gym size: 8000 - 10500 SF

• HB Gym : 7075

• Auxiliary Gym of 2000 SF in Ed Spec

• No Auxiliary Gym at HB

• Total Ed Spec PE SF: 18515 SF

• HB PE SF : 11041 SF

YOUTH BASKETBALL COURT : 74’ X 42’
HIGH SCHOOL BASKETBALL COURT: 84’ X 50’
PROGRAMMING

1ST FLOOR PE - 1949

ORIGINAL 1ST FLOOR PE SPACE: 8150 SF
1000 STUDENT OPTION - KEY ELEMENTS - PRELIMINARY ANALYSIS

Key Renovations and Additions:

- Add Core Educational Spaces (11 Academic Teams)
- Add Elective Labs
- Enhance Media Center
- Expansion of PE Spaces
- 180,000 square feet (35,000-40,000 Addition)

Existing to Remain:

- Auditorium & Stage
- 2005 Music Wing
- Gym
- Cafeteria
PROGRAMMING | DISCUSSION
ENTRY & CIRCULATION
EXISTING BUILDING
ENTRY & CIRCULATION

EXISTING BUILDING
HEART OF SCHOOL & PLACEMAKING

- Social Dynamic
- Pride of Place
- Wayfinding

QEA - Alice Deal Elementary
QEA & McDonough - American University School of International Service
HEART OF SCHOOL & PLACEMAKING

Integrus Architecture - Ingraham High School

Perkins + Will Architects - William Jones Preparatory High School
HEART OF SCHOOL & PLACEMAKING

Alfred Hall Monaghan Morris Architect,
Graphics: Studio Myerscough - Westminster Academy

VMDO Architects - Fauquier High School
SITE PLAN OPTIONS
OPTIONS PREFERRED BY BLPC
SITE SECTION

MAX. BUILDABLE AREA - SECTION 1
SITE SECTION

MAX. BUILDABLE AREA - SECTION 1

EXISTING BLDG
MIN. 30'
104' BUILDING LIMIT

R  EL +332.5'
3  EL +319.2'
2  EL +305.8'
1  EL +292.5'
B  EL +275.2'

30'  20'  150' MIN. FIELD WIDTH (SOCCER)

EL. + 280' (FIELD)

PROPERTY LINE

Arlington Public Schools
Stratford Middle School - 38
SITE SECTION

MAX. BUILDABLE AREA - SECTION 2

EXISTING BLDG

BUILDING LIMIT

150' MIN. FIELD WIDTH
(SOCkker)

EL. + 280' (FIELD)

R EL +336.5'

3 EL +323.17'

2 EL +305.8'

1 EL +292.5'

B EL +275.2'
SITE SECTION

SITE ROAD - SECTION 2

EXISTING BLDG

60' BUILDING LIMIT

12'

25' BUS DRIVE

150' MIN. FIELD WIDTH
(SOCCER)

EL. + 290'

EL. + 280' (FIELD)

Arlington Public Schools
Stratford Middle School - 42
**CLASSROOM CONFIGURATION**

**CORRIDOR EFFICIENCY**

- **Double Loaded**
  - 30’ Deep - 24’ Wide
  - Diagram: 72’

- **Double Loaded**
  - 24 Deep - 30’ Wide
  - Diagram: 60’

- **Single Loaded**
  - 30’ Deep - 24’ Wide
  - Diagram: 42’
SITE PLAN OPTIONS
OPTIONS PREFERRED BY BLPC
ENTRY & CIRCULATION
MAIN ENTRY LOCATIONS
ENTRY & CIRCULATION

MAIN ENTRY LOCATIONS - EXISTING
ENTRY & CIRCULATION

SOUTH ENTRY

CAR DROP-OFF VISITORS

Heart of School

BUS

CAR DROP-OFF VISITORS

BUS
ENTRY & CIRCULATION

WEST ENTRY

CAR DROP-OFF VISITORS

BUS

CAR DROP-OFF VISITORS

BUS
ENTRY & CIRCULATION

WEST ENTRY

CAR DROP-OFF VISITORS

BUS

CAR DROP-OFF VISITORS

BUS
PRELIMINARY MASSING

OPTION 1 - PARALLEL CORE

• Addition equals height of the existing building

• Light connections to the existing building core

• 45’ min. to existing building core
PRELIMINARY MASSING

OPTION 2 - TERRACED

• Addition steps down with the hillside

• Maintain maximum space with the existing building core

• Building would interfere with road in Site Options C/D
PRELIMINARY MASSING

OPTION 3 - EAST “L”

- Lower addition
- Larger footprint
PRELIMINARY MASSING

OPTION 4 - WEST “L”

- Lower addition
- Larger footprint
- Building would interfere with road in Site Options C/D
PRELIMINARY MASSING

OPTION 5 - EXTENSION ON GYM

- Minimum area touching the existing building
- Maximize daylight potential in classrooms
- Constricts site access options and field size
PRELIMINARY MASSING

OPTION 6 - GYM WRAP

- Maintain light well at existing gym facade
- Create “heart of school” at connection to existing building core
PRELIMINARY MASSING

OPTION 7 - PLAZA

• Below grade program provides:
  • view of the historic building
  • improved entrance at field level and/or 1st floor
  • terrace, plaza or courtyard feature
PRELIMINARY MASSING

OPTION 8 - SATELLITE BUILDING

- 6 Story building on Old Dominion
• BLPC #5 : Monday, June 1st