**Agenda**

- Introductions
- MCPS Presentation
  - Who, What, Where, When, and Why?
- TLP Presentation
  - Project Understanding
  - What is a Capacity Study?
  - The Capacity Study Process
  - Goals of Today’s Meeting
  - Present Design Options
  - Gather Feedback
Address space shortages at elementary schools in the lower section of the Downcounty Consortium

Allow superintendent to make recommendations to address the space shortages as part of the FY 2017–2022 Capital Improvements Program (CIP) in October 2015

Why a Capacity Study?
Learn the following:

- Which schools we can add classrooms to?
- How large the classroom additions can be?
- How much the classroom additions would cost?

Compare cost of construction of additions to the cost of constructing a new elementary school

- Paired schools will be looked at as paired and unpaired schools
- Board of Education adopted study

Purpose of Elementary Capacity Study
<table>
<thead>
<tr>
<th>School</th>
<th>Grades Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Silver Spring ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Forest Knolls ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Highland View ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Montgomery Knolls ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>New Hampshire Estates ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Oak View ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Pine Crest ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Piney Branch ES</td>
<td>3–5</td>
</tr>
<tr>
<td>Rolling Terrace ES</td>
<td>pre-K–5</td>
</tr>
<tr>
<td>Sligo Creek ES</td>
<td>K–5</td>
</tr>
<tr>
<td>Takoma Park ES</td>
<td>pre-K–2</td>
</tr>
<tr>
<td>Woodlin ES</td>
<td>K–5</td>
</tr>
</tbody>
</table>
- Possible classroom additions at 5 of the 12 schools in the study area
  - Montgomery Knolls ES
  - New Hampshire Estates ES
  - Oak View ES
  - Pine Crest ES
  - Sligo Creek ES

- Remaining 7 schools have been studied previously or can’t be made larger
  - East Silver Spring ES  Master Planned Addition
  - Forest Knolls ES  Completed as part of DCC Capacity Study in 2013
  - Highland View ES  Completed in 2011
  - Rolling Terrace ES  Completed in 2009
  - Woodlin ES  Completed in 2013
  - Takoma Park/Piney Branch ES  Can’t be made larger

- Possible classroom additions at schools that are over capacity
- Possible classroom additions at schools that are not over capacity but could relieve schools that are over capacity through future boundary changes
What Will the Study Not Explore?

- **No** sites for future schools will be explored in this study
- **No** boundary changes will be explored as part of this study
## Enrollment Projections

### DCC Study Lower Area: Enrollments and Space

<table>
<thead>
<tr>
<th>School</th>
<th>Pre-K/K-5 Schools</th>
<th>Paired Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Silver Spring</td>
<td>Capacity</td>
<td>558</td>
</tr>
<tr>
<td></td>
<td>Enrollment</td>
<td>521</td>
</tr>
<tr>
<td>Forest Knolls</td>
<td>Capacity</td>
<td>523</td>
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<tr>
<td></td>
<td>Enrollment</td>
<td>733</td>
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<tr>
<td></td>
<td>Enrollment</td>
<td>422</td>
</tr>
<tr>
<td></td>
<td>space available/deficit</td>
<td>-144</td>
</tr>
<tr>
<td>Rolling Terrace</td>
<td>Capacity</td>
<td>695</td>
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<tr>
<td></td>
<td>Enrollment</td>
<td>899</td>
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<tr>
<td></td>
<td>space available/deficit</td>
<td>-204</td>
</tr>
<tr>
<td>Sligo Creek</td>
<td>Capacity</td>
<td>664</td>
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<tr>
<td></td>
<td>Enrollment</td>
<td>652</td>
</tr>
<tr>
<td></td>
<td>space available/deficit</td>
<td>12</td>
</tr>
<tr>
<td>Woodlin</td>
<td>Capacity</td>
<td>462</td>
</tr>
<tr>
<td></td>
<td>Enrollment</td>
<td>626</td>
</tr>
<tr>
<td></td>
<td>space available/deficit</td>
<td>-164</td>
</tr>
</tbody>
</table>

### Total Capacity
- 6,059
- 6,059
- 6,059
- 6,059
- 6,059
- 6,059
- 6,059

### Total Enrollment
- 6,928
- 7,141
- 7,222
- 7,173
- 7,159
- 7,080
- 6,970

### space available/deficit
- -869
- -1,082
- -1,163
- -1,114
- -1,100
- -1,021
- -911
The superintendent will review the capacity studies and cost estimates.

The superintendent will make a recommendation on classroom additions, a new elementary school, or a combination of both, in late October 2015 as part of the FY 2017–2022 CIP.

The superintendent’s recommendation will include a request for funds to design and construct what is recommended.

What Will Happen After the Study?
- If the superintendent recommends a new elementary school, then a site selection advisory committee would be formed next school year to evaluate site options.

- Whether the solution to space shortages are classroom additions or a new school, it is likely that some school boundaries will change.

- Boundary changes would be timed to occur when the additional capacity becomes available.

- In the meantime, schools will be provided with relocatable classrooms.

What Will Happen After the Study?
Provide Capacity Increasing Options

- Consideration must be given to:
  - The existing facility layout
  - The site potentials and constraints

Goals

- Address space shortages
- Compare the cost of multiple additions to the cost of a new school
**Capacity Study** - A Design Investigation of potential classroom additions at multiple schools to increase the program capacity and core capacity of the schools being studied

- **Core Capacity** – The capacity of the school based on the size of the core spaces (the media center, the cafeteria, the gym)

- **Program Capacity** - The capacity of the school based on the number of classrooms and the programs they host.

**What is a Capacity Study?**
- East Silver Spring
- Forest Knolls
- Highland View
- Montgomery Knolls*
- New Hampshire Estates*
- Oak View*
- Pine Crest*
- Piney Branch*
- Rolling Terrace
- Sligo Creek
- Takoma Park*
- Woodlin

* Schools in color are paired schools

The Capacity Study Area
The Capacity Study Process

1. MCPS Develops the Space Summary
2. Architect meets with MCPS and School Staff
3. Architect develops Addition Options
4. Options presented at Community Meetings
5. Feedback provided by the Community
6. Revisions made to the Options
7. Final Presentation made to the Community
Goals of Today’s Meeting

✔ Identify Existing Building / Site Conditions

✔ Present Concept Design Options
  ▪ Based on Space Summary

✔ Discuss Pros / Cons of each Option
  ▪ Including Additional Issues not Identified in the Options Presented

✔ Gather Consensus regarding Preferred Option to pursue
Understanding the Existing School

- Current Core Capacity – 640
- Current Program Capacity – 358
- Current Enrollment (2014-15) - 382
- Proposed Core Capacity – 640
- Projected Program Capacity w/ Addition – 634/637*
- Projected Enrollment 2020-21 – 446
- Projected Excess Capacity after Addition – (188/191)*

* Capacities Provided for 3-5 and PreK-5 Options respectively

- Currently has Capacity Deficit (-24)
- Currently 1 Relocatable
- Two Story School
- Large Site (11.2 Acres)
- Paired with NH Estates ES
- Grades 3-5
- Original School Built in 1949
- Additions in 1953, 1983, and 2005
- Design Issues / Constraints
  - Sloping site
  - On Site Forest

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The Existing School – Floor Plans

Lower Level

Main Level
The Existing School – Site

- Topography
- Drop-Off
- On Site Forest Boundary
- Existing Trees
  - 41”
  - 26” – 31” Street Trees
- Fire Truck Access
The Space Summaries from MCPS identify spaces required to achieve 640 Core Capacity and a 634/637* Program Capacity

* Capacities Provided for 3-5 and PreK-5 Options respectively

Grades 3-5
- Net vs. Gross SF
  - 14,700 Net SF needed
  - @20,500 Gross SF needed

Grades PreK-5
- Net vs. Gross SF
  - 25,500 Net SF needed
  - @35,700 Gross SF needed
Lower Level

Lower Level Addition – 9,900 SF
Main Level Addition – 10,430 SF
Total Addition – 20,330 SF

Stair Renovation – 300 SF

Design Options – Option 1 – Grades 3-5 - Floor Plans
- Minimal Site Work
- No New Retaining Walls
- No Revisions to Play Areas
- Maintains Existing Fire Truck and Maintenance Access
- Eliminates the 41” Tree
- Provides Circulation Loop on Main Level

Design Options – Option 1 – Grades 3-5 - Site Plan
Design Options – Option 1 – Grades PreK-5 - Floor Plans

**Lower Level**
- Lower Level Addition – 17,250 SF
- Main Level Addition – 15,950 SF
- Total Addition – 33,200 SF
- Stair Renovation – 300 SF

**Main Level**
- Minimal Site Work
- No New Retaining Walls
- No Revisions to Play Areas
- Maintains Existing Fire Truck and Maintenance Access
- Eliminates the 41” Tree, Permitting will require Justification
- Stays clear of the On Site Forest Line
- Provides Circulation Loop on Main Level
Main Level Addition – 10,000 SF
Upper Level Addition – 10,530 SF
Total Addition – 20,530 SF

Design Options – Option 2 – Grades 3-5 - Floor Plans
- Significant Site Work
- New Retaining Walls
- Revisions to Play Areas
- Requires New Fire Truck and Maintenance Access
- Keeps the 41” Tree, stays clear of the On Site Forest Line
- Eliminates the 3 Street Trees
- Creates Long Corridor on Main Level
Main Level

Lower Level

Main Level Addition – 17,130 SF
Upper Level Addition – 13,600 SF
Total Addition – 30,730 SF

Design Options – Option 2 – Grades PreK-5 - Floor Plans
- Significant Site Work
- New Retaining Walls
- Revisions to Play Areas
- Requires New Fire Truck and Maintenance Access
- Keeps the 41” Tree, stays clear of the On Site Forest Line
- Eliminates the Most of the Street Trees
- Creates Long Corridor on Main Level
Design Options – Options 1 & 2 – Grades PreK-5 - Comparison
Design Options – Overall Comparison

- **Option 1**
  - Grades 3-5
  - Grades PreK-5

- **Option 2**
  - Grades 3-5
  - Grades PreK-5
Questions?