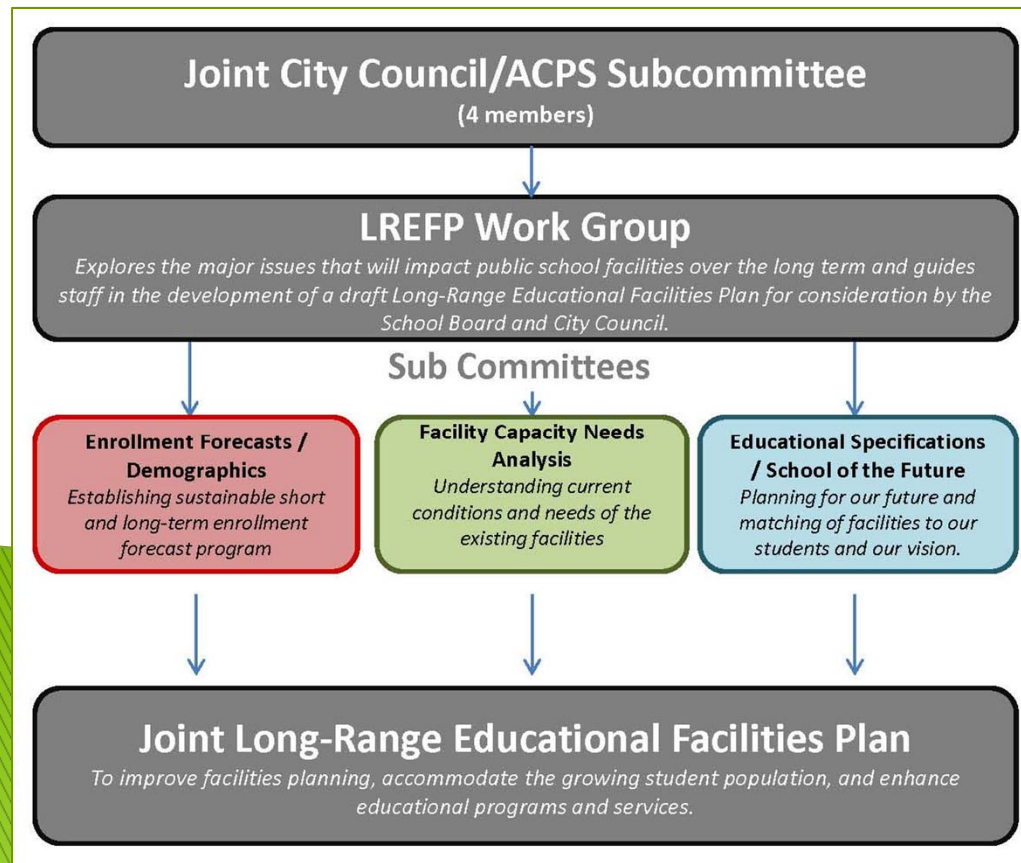


Facility Capacity Needs Analysis Subcommittee

ACPS & City of Alexandria
October 15, 2014



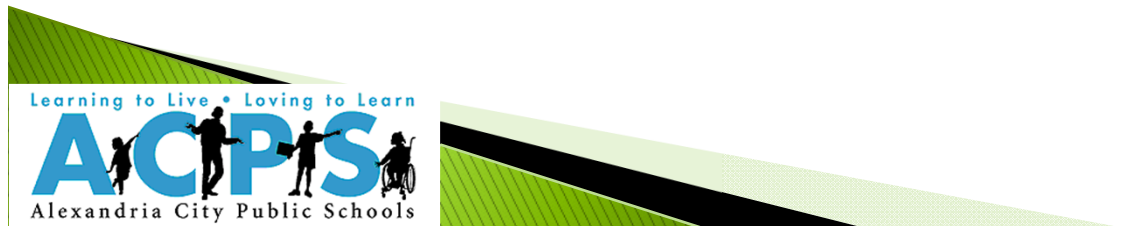
Agenda

- ▶ Review Work Program
- ▶ Progress by A/E Teams
 - Existing Conditions Exterior Site Inventory
 - Educational Adequacy Assessments (EAs)
- ▶ Prioritization Methodology
- ▶ Discussion/Next Steps

- ▶ Goal for this meeting
 - Provide feedback on overall process, tiers and prioritization methodology

Review Work Program

- ▶ Facility Capacity Work Program Goals
 - Assess existing conditions
 - Review capacity analysis methodology
 - Review how existing capacity is allocated to meet demand
 - Establish guidelines for adding capacity, supporting education
 - Identify potential school site types



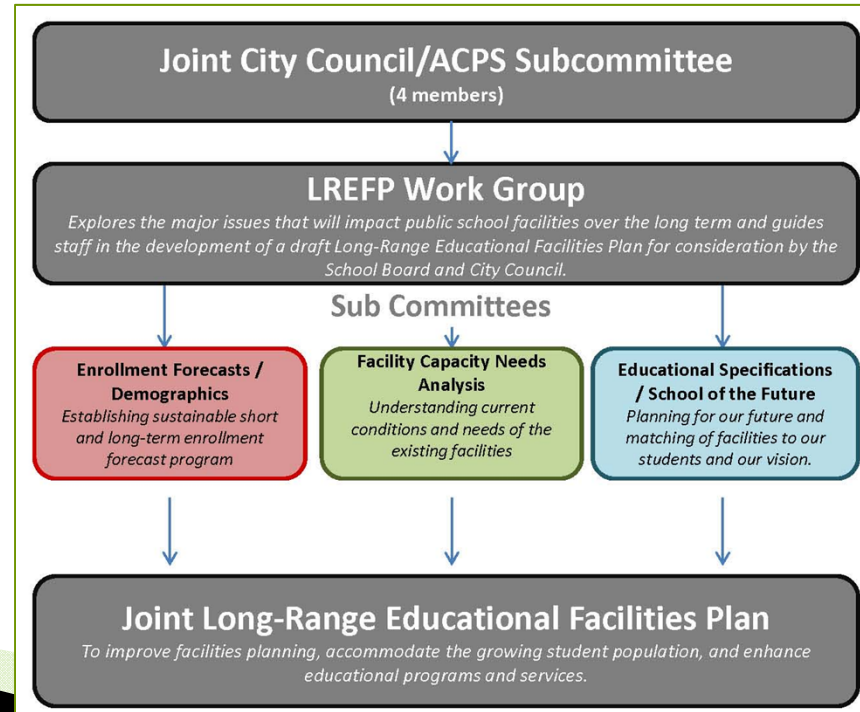
Review Work Program

- ▶ Work Program Approach
 - Develop a school facility and site inventory
 - Develop a capacity and utilization assessment for each school site
 - Identify space needs by type of use
 - Review findings of Enrollment Subcommittee and Educational Specifications Subcommittee
 - Reallocate existing capacity to meet current demand
 - Develop guidelines for adding capacity
 - Review potential future school sites

Review Work Program

▶ Next Steps

- Assess existing conditions of school sites
- Educational Adequacy Assessment
- Preparation of future master plans



Status on School Facility Inventory– Exterior Site Inventory

- ▶ Scope of Work
- ▶ General site description, including:
 - Describe property ownership and boundaries
 - Usable acreage of open space and recreation features
 - General size and condition of playgrounds
 - Document any natural resources/areas present
 - General site accessibility/traffic issues
 - Adequacy of site utilities to accommodate new construction
- ▶ Products
 - Report for each school site
 - Electronic site plans

Status on School Facility Inventory– Exterior Site Inventory

- ▶ Schedule
- ▶ Pilot School– George Mason
- ▶ Group 1
 - Mt. Vernon, Matthew Maury, George Washington, Douglas MacArthur, Charles Barrett
- ▶ Group 2
 - Minnie Howard, Cora Kelly, Francis C. Hammond, Lyles–Crouch
- ▶ Group 3
 - William Ramsay, James K. Polk, John Adams, Samuel Tucker, T.C. King Street Campus
- ▶ Sites Not Included
 - Jefferson–Houston, Patrick Henry

Educational Adequacy Assessments (EAs)

- ▶ Goal of EAs
 - Assess the ability of existing facilities to support the educational program
- ▶ 3 Major Areas
 - School Site
 - Overall Building Assessment
 - Instructional and Support Spaces
- ▶ Utilization

Educational Adequacy Assessments (EAs)

- ▶ Evaluation Process
 - Compile and review relevant data
 - Floor plans
 - Interior survey information (SF, acoustics, lighting)
 - Other?
 - Field Visit
 - Field verify and collect additional information
 - Survey building users
 - Summarize
 - Utilization Calculation
 - Prepare report

Educational Adequacy Assessments (EAs)

- ▶ Evaluation Factors (see handout)
 - School Site
 - Site Circulation
 - Play Areas/Fields
 - Building Assessment
 - Building Organization
 - Technology and Supporting Infrastructure
 - Safety, Security and Accessibility
 - Individual Spaces
 - Size Requirements
 - Internal Organization and Ancillary Spaces
 - Loose Furnishings
 - Fixed Furnishings
 - Lighting Quality
 - Acoustics
 - Air Quality

Evaluation Methodology: Site and Spaces

▶ Rating Categories–

- ▶ **Excellent:** The individual space, or aggregate subcategory, meets at least 90 percent of the requirements outlined in the Ed. Specs.
- ▶ **Satisfactory:** The individual space, or aggregate subcategory, meets between 70 and 89 percent of these requirements.
- ▶ **Borderline:** The individual space, or aggregate subcategory, meets between 50 and 69 percent of these requirements.
- ▶ **Inadequate:** The individual space, or aggregate subcategory, meets between 30 and 49 percent of these requirements.
- ▶ **Very inadequate:** The space(s) do not provide at least 29 percent of the requirements.

Site, Building Assessment, Instructional and Support Spaces			
	Rating	Rang A	Rang B
1	Excellent	89.5	100
2	Satisfactory	69.5	89.4
3	Borderline	49.5	69.4
4	Inadequate	29.5	49.4
5	Very Inadequate	0	29.4
6	Non-existent	-0.01	-0.01

Summary Matrix

Technology and Supporting Infrastructure						
	Wireless bandwidth is adequate to enable a one-to-one student-to-device ratio	Electricity is provided in multiple locations along all walls throughout building	Clocks and PA systems are integrated, digital, and functioning	Universal wireless access is provided in all spaces of the facility.		
Yes	5	5	5	5	Total Score	Percent Compliant
Some	2.5	2.5	2.5	2.5		
No	1	1	1	1		
Room 1	Yes --or-- 5	Some --or-- 2.5	Yes --or-- 5	No --or-- 1	13.5	68%
Room 2	No --or-- 1	Some --or-- 2.5	No --or-- 1	Some --or-- 2.5	7	35%
Room 3	No --or-- 1	Yes --or-- 5	Yes --or-- 5	Yes --or-- 5	16	80%
Room 4	No --or-- 1	Some --or-- 2.5	No --or-- 1	No --or-- 1	5.5	28%
Room 5	Yes --or-- 5	Yes --or-- 5	Yes --or-- 5	Yes --or-- 5	20	100%
					62	62%

▶ Handout provided.

Evaluation Methodology: Utilization

▶ Rating Categories

- ▶ **Excellent:** The school meets the capacity outlined in the educational specifications using the approved planning numbers.
- ▶ **Satisfactory:** The school is 10 percent over or under the capacity outlined in the educational specifications using the approved planning numbers.
- ▶ **Borderline:** The school is up to 20 percent under capacity or up to 15 percent over capacity based on the approved planning numbers in the educational specifications.
- ▶ **Inadequate:** The school is up to 30 percent under capacity or up to 20 percent over capacity based on the approved planning numbers in the educational specifications.
- ▶ **Very inadequate:** The school does not fall in any of the other ranges.

Utilization					
	Rating	Range A	Range B	Range C	Range D
1	Excellent	100			
2	Satisfactory	90	99.9	100.1	110
3	Borderline	80	89.9	110.1	115
4	Inadequate	70	79.9	115.1	120
5	Very Inadequate	0	69.9	120.1	300

Evaluation Methodology: Utilization

▶ Rating By Size–

- ▶ **Excellent:** Enrollment of 570 is met.
- ▶ **Satisfactory:** Enrollment is up to 57 students over or under capacity.
- ▶ **Borderline:** Enrollment is up to 114 students under capacity or 58 students over capacity.
- ▶ **Inadequate:** Enrollment is up to 171 students under capacity or up to 86 students over capacity.
- ▶ **Very inadequate:** Enrollment is more than 171 students under capacity or more than 86 students over capacity.

Utilization - Measured in students		Number of Students			570
	Rating	Range A	Range B	Range C	Range D
1	Excellent	570			
2	Satisfactory	513	569	571	627
3	Borderline	456	512	628	656
4	Inadequate	399	455	656	684
5	Very Inadequate	Below --->	398.43	684.57	<---- Above

Evaluation Methodology: Utilization

▶ Rating by Number of Students–

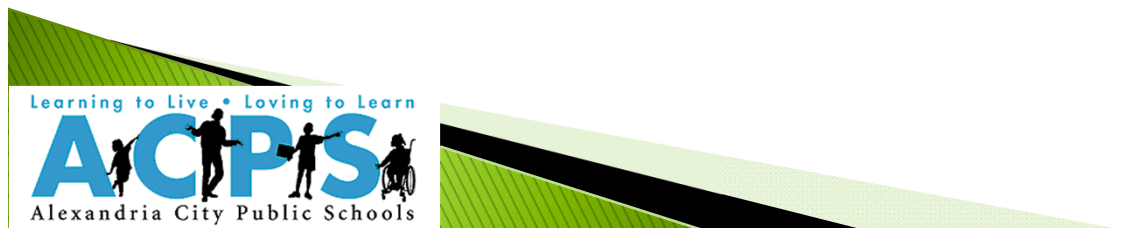
- ▶ **Excellent:** The classroom holds all 22 students based on the sqft/student planning size.
- ▶ **Satisfactory:** The classroom is under or over capacity by 2 students.
- ▶ **Borderline:** The classroom is under capacity by 4 students or over capacity by 3 students.
- ▶ **Inadequate:** The classroom is under capacity by 7 students or over capacity by 4 students.
- ▶ **Very inadequate:** The classroom is under capacity by more than 7 students or over capacity by more than 4 students.

Utilization			Students		22
	Rating	Range A	Range B	Range C	Range D
1	Excellent	22			
2	Satisfactory	20	22	22	24
3	Borderline	18	20	24	25
4	Inadequate	15	18	25	26
5	Very Inadequate	Below --->	15	26	<---- Above

Prioritization Methodology

► Tiers

1. Safety and Security
2. Capacity
3. Support of Educational Program
4. Enhancement to Learning Environment
5. Other



Prioritization Methodology

Rating	Tier	Priority
Very Inadequate	1- Safety & Security	1
	2- Capacity	2
	3- Support of Educational Program	3
	4- Enhancement to Learning Environment	4
	5- Other	5
Inadequate	1- Safety & Security	6
	2- Capacity	7
	3- Support of Educational Program	8
	4- Enhancement to Learning Environment	9
	5- Other	10
Borderline	1- Safety & Security	11
	2- Capacity	12
	3- Support of Educational Program	13
	4- Enhancement to Learning Environment	14
	5- Other	15
Satisfactory	1- Safety & Security	16
	2- Capacity	17
	3- Support of Educational Program	18
	4- Enhancement to Learning Environment	19
	5- Other	20
Excellent	1- Safety & Security	21
	2- Capacity	22
	3- Support of Educational Program	23
	4- Enhancement to Learning Environment	24
	5- Other	25

Status on Educational Adequacy Assessments (EAs)

- ▶ Schedule
- ▶ Pilot School
- ▶ Group 1
 - Mt. Vernon, Matthew Maury, George Mason, George Washington
- ▶ Group 2
 - Douglas MacArthur, Charles Barrett, Cora Kelly, Francis C. Hammond
- ▶ Group 3
 - Lyles–Crouch, William Ramsay, James K. Polk, John Adams, Samuel Tucker
- ▶ Sites Not Included
 - Jefferson–Houston, Patrick Henry, Minnie Howard, T.C. King Street

Group 1

- ▶ Mt. Vernon, Matthew Maury, George Mason, George Washington
 - ☑ Compile and review relevant data
 - ☑ Field Visit
 - ☑ Summarize
 - ☑ Utilization Calculation

Discussion/Next Steps

