



# BRISTOL PUBLIC SCHOOLS

Feasibility Study, Board of Education Schools

*Operations Committee Presentation – November 21, 2017*

## Our Process

- COLLECTING
- LISTENING
- VISIONING
- DOCUMENTATION

# Our Process

## -DOCUMENTATION



- 1 Executive Summary
- 2 Existing Conditions
- 3 Enrollment Projections
- 4 Options Considered
- 5 Recommendations
- 6 Appendices

# COLLECTING



- 1 Executive Summary
- 2 Existing Conditions**
- 3 Enrollment Projections**
- 4 Options Considered
- 5 Recommendations
- 6 Appendices**

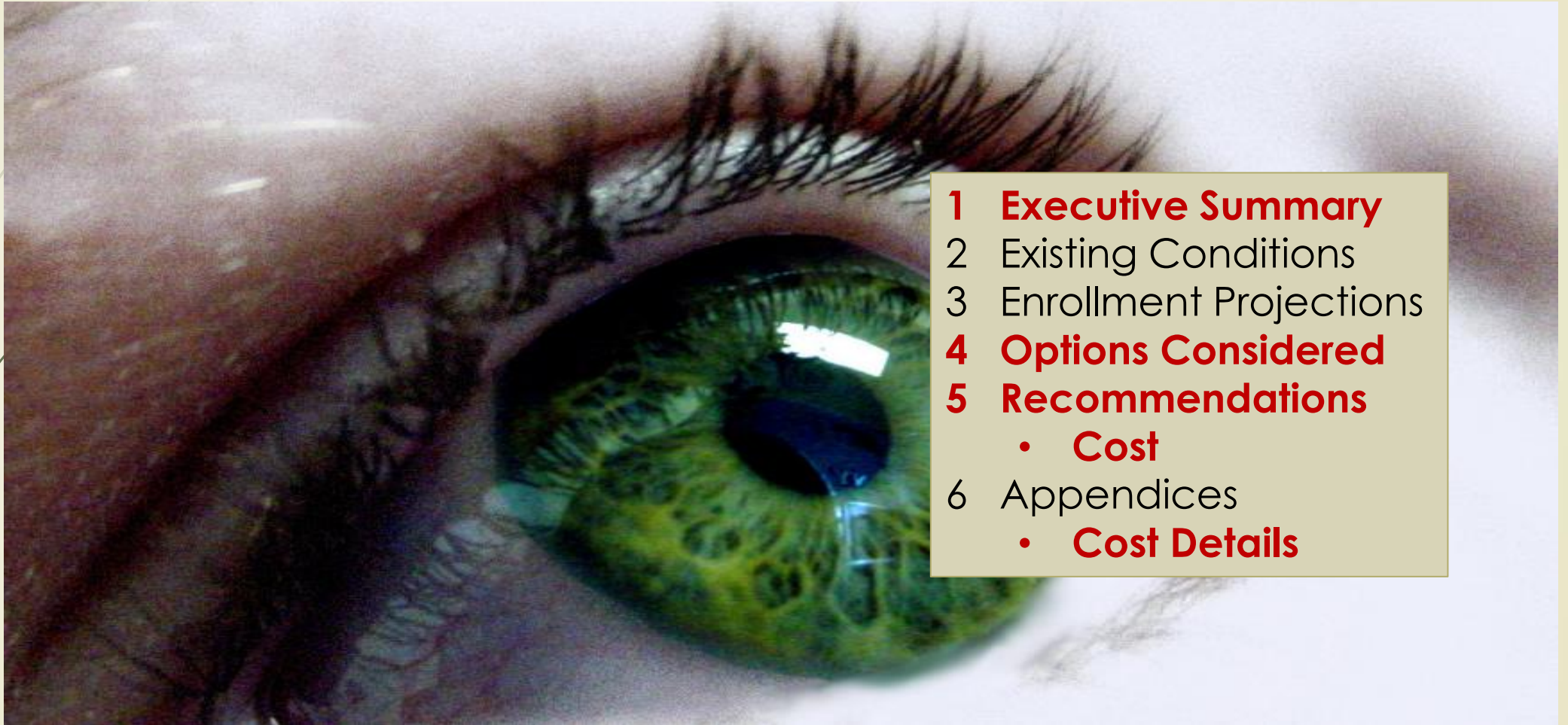
# LISTENING



- 1 Executive Summary**
- 2 Existing Conditions
- 3 Enrollment Projections
- 4 Options Considered**
- 5 Recommendations**
- 6 Appendices



# VISIONING



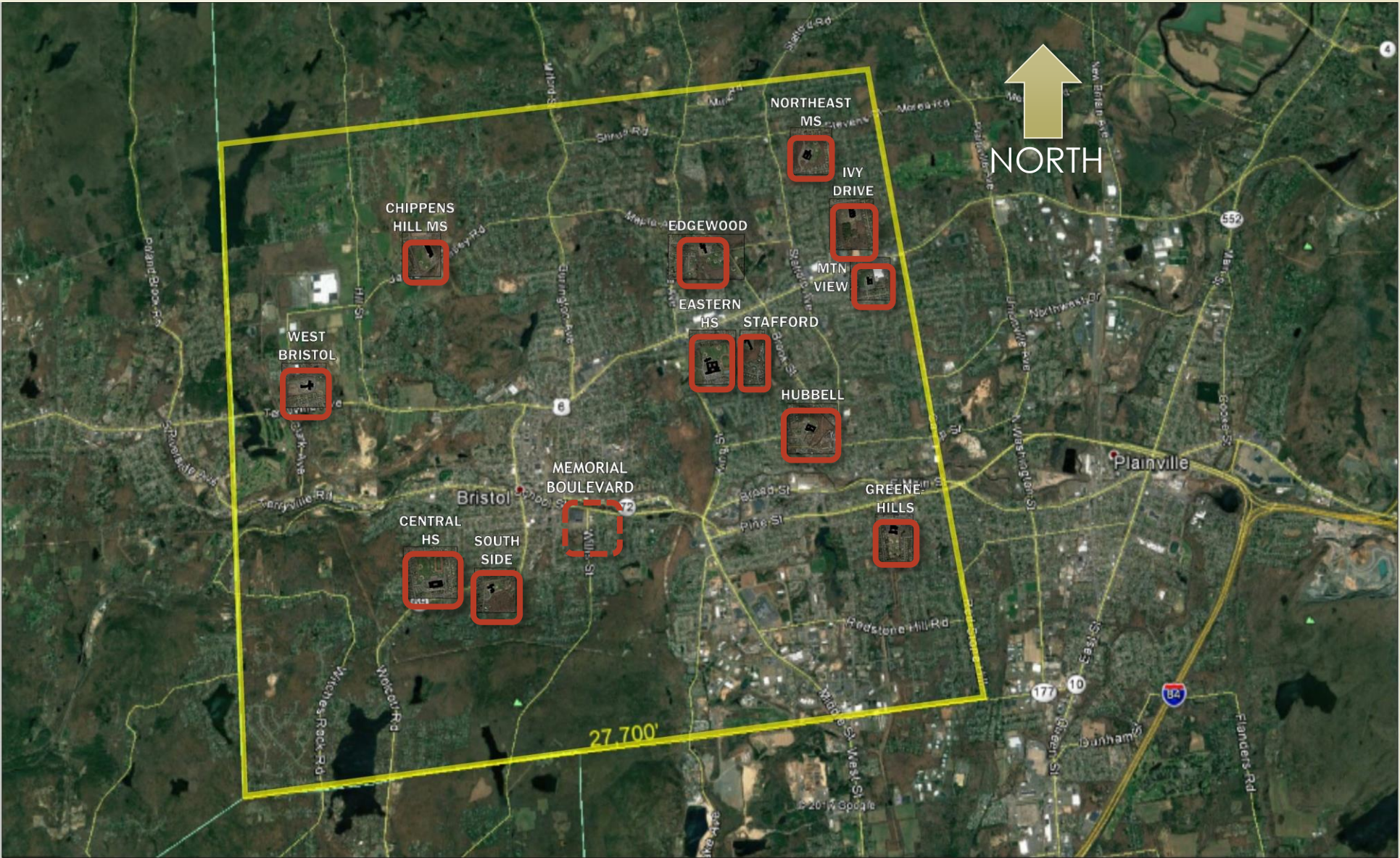
- 1 Executive Summary**
- 2 Existing Conditions
- 3 Enrollment Projections
- 4 Options Considered**
- 5 Recommendations**
  - **Cost**
- 6 Appendices
  - **Cost Details**



# BRISTOL PUBLIC SCHOOLS

FINAL 11/21/17

City Map



Google Earth

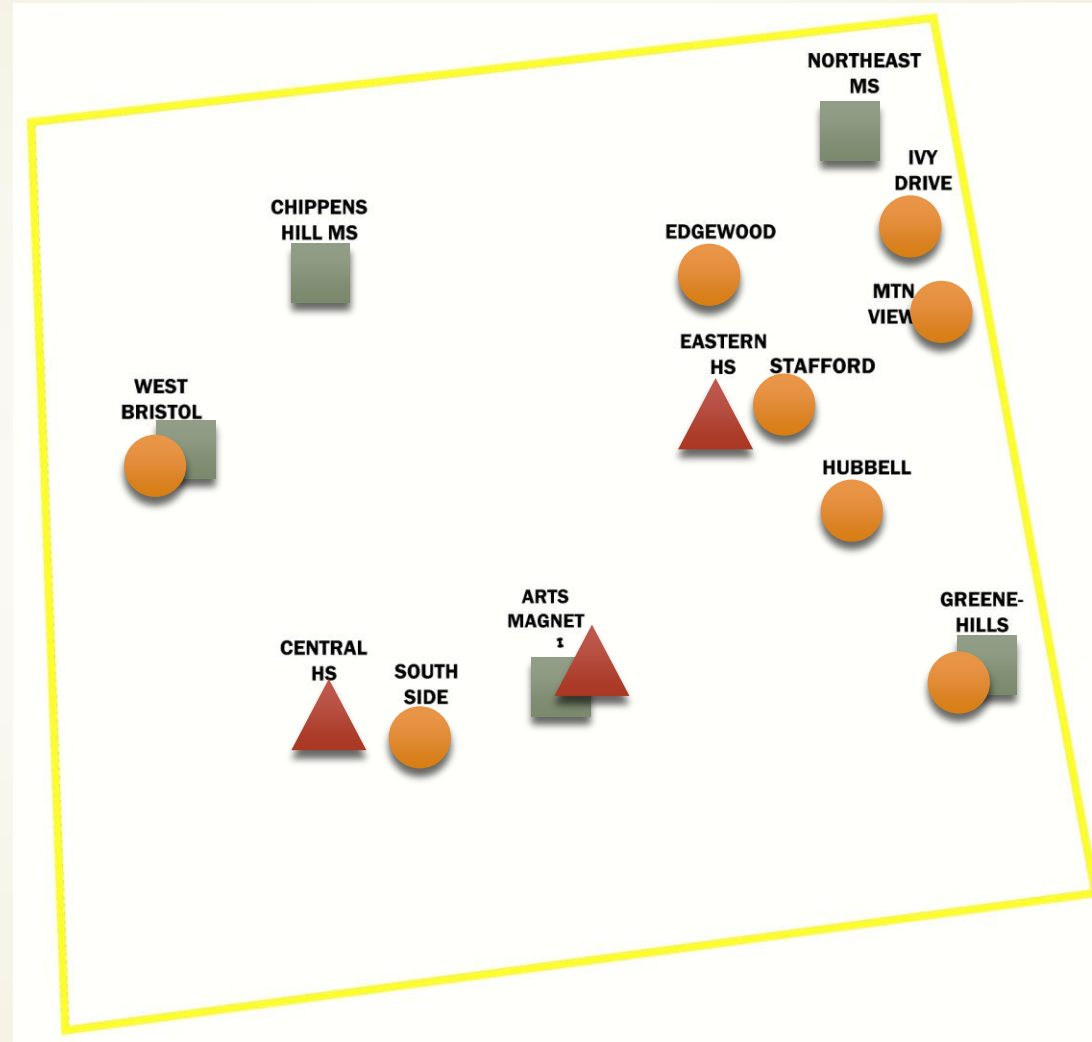
## Schools

### EXISTING CONFIGURATION

- ▲ 2 High Schools
- 2 Middle Schools (6-8)
- 2 K-8 Schools
- 6 Elementary (PK-5)

### FUTURE

- ▲ 1 Arts Magnet (6-12)

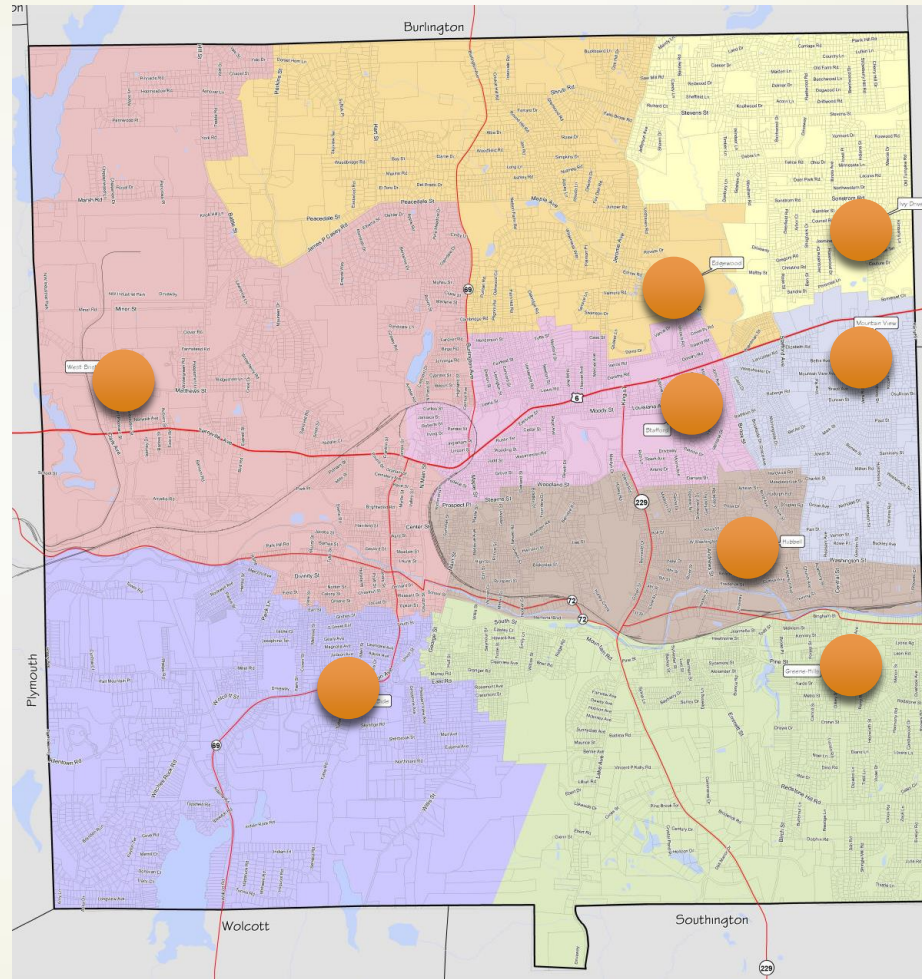




## Districts

### EXISTING CONFIGURATION

- ▲ 2 High Schools
- 4 Middle Schools (6-8)
- 8 Elementary (PK-5)

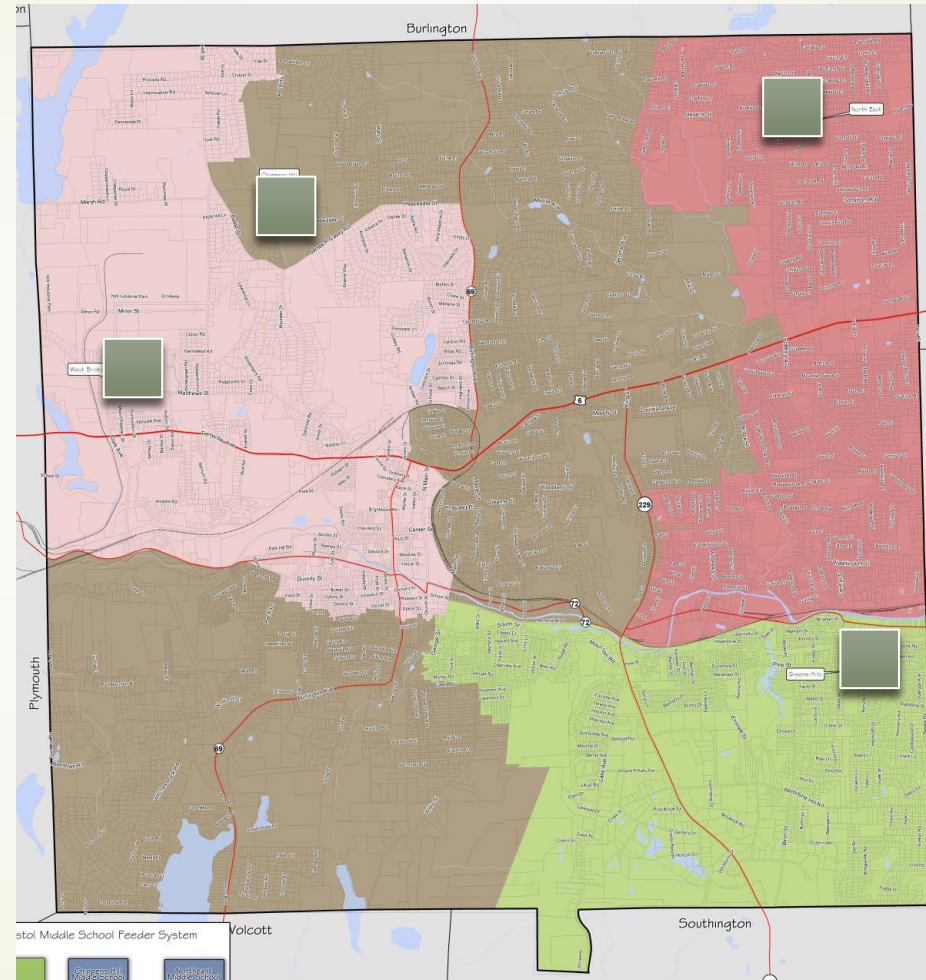


Milone & MacBroom, 2012

## Districts

### EXISTING CONFIGURATION

- ▲ 2 High Schools
- 4 Middle Schools (6-8)
- 8 Elementary (PK-5)



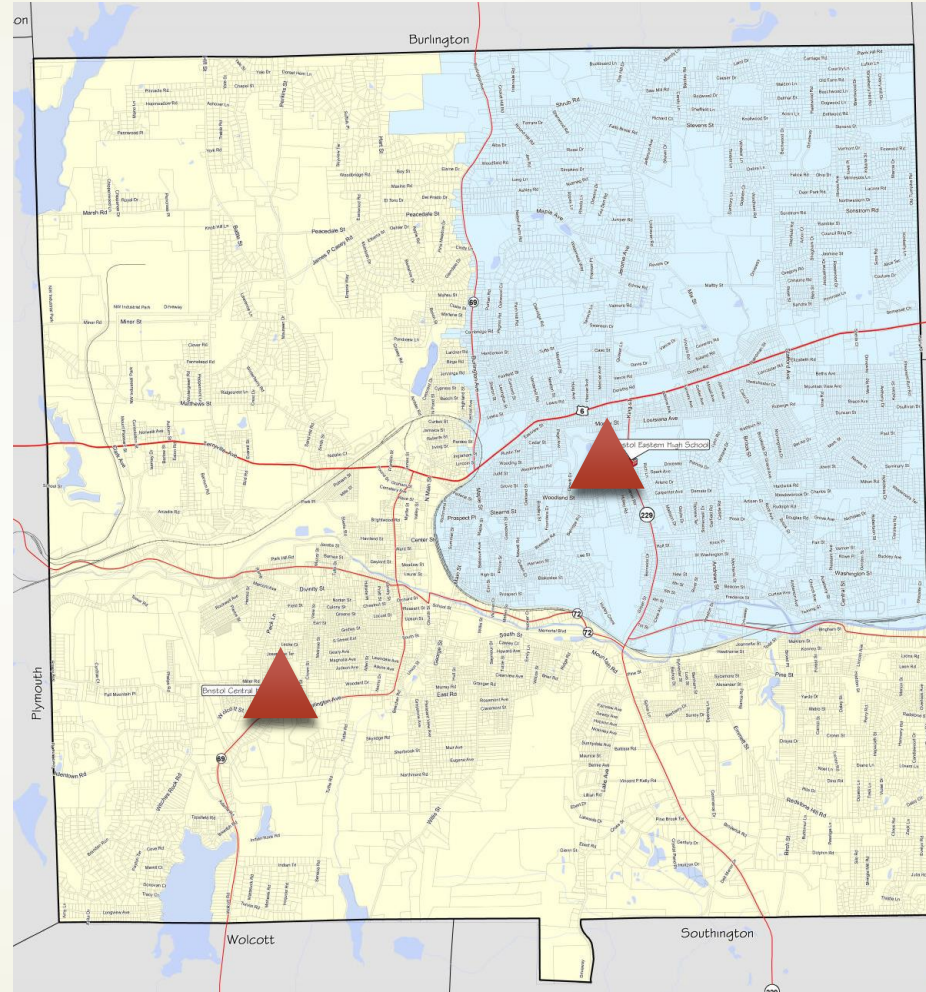
Milone & MacBroom, 2012



## Districts

### EXISTING CONFIGURATION

- ▲ 2 High Schools
- 4 Middle Schools (6-8)
- 8 Elementary (PK-5)



Milone & MacBroom, 2012



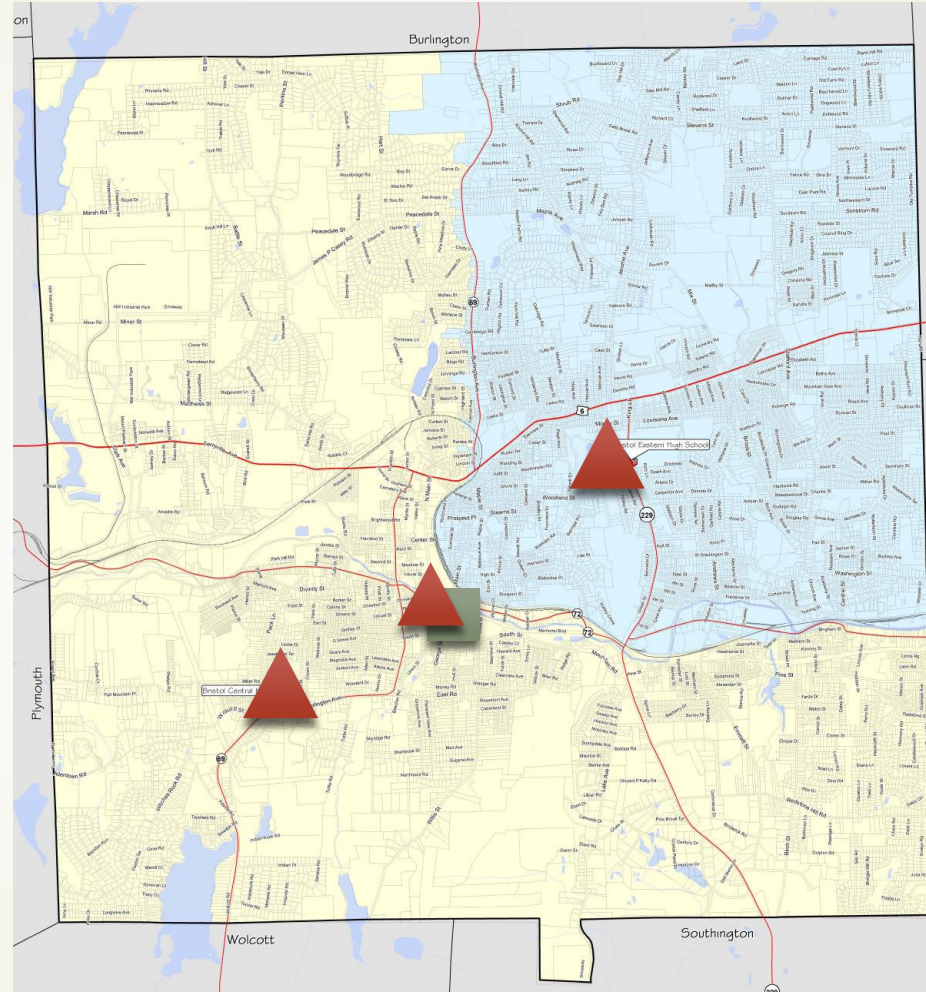
## Districts

### EXISTING CONFIGURATION

- ▲ 2 High Schools
- 4 Middle Schools (6-8)
- 8 Elementary (PK-5)

### NEAR FUTURE

- ▲ 1 Arts Magnet (6-12)

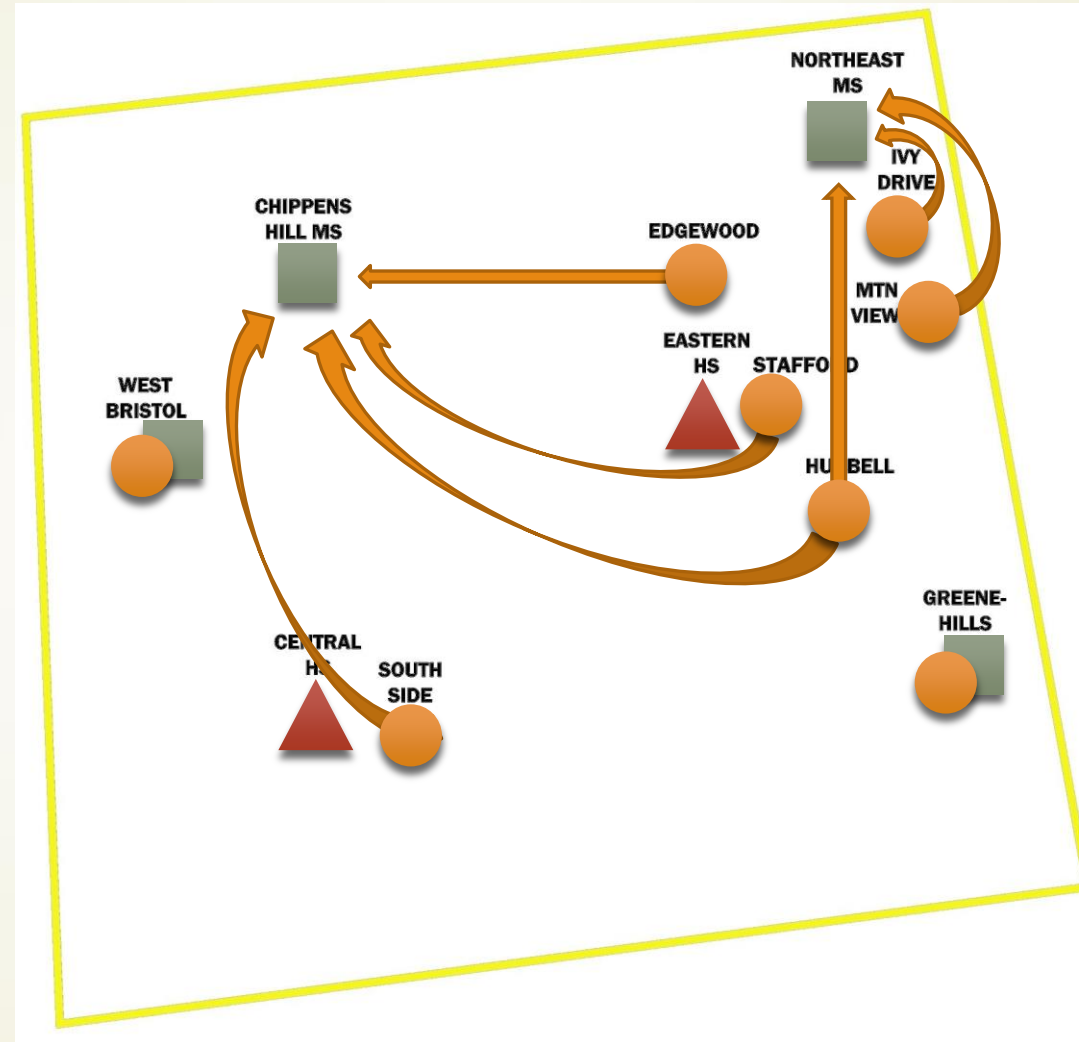


Milone & MacBroom, 2012

# Feeders

## ELEMS FEEDING MS

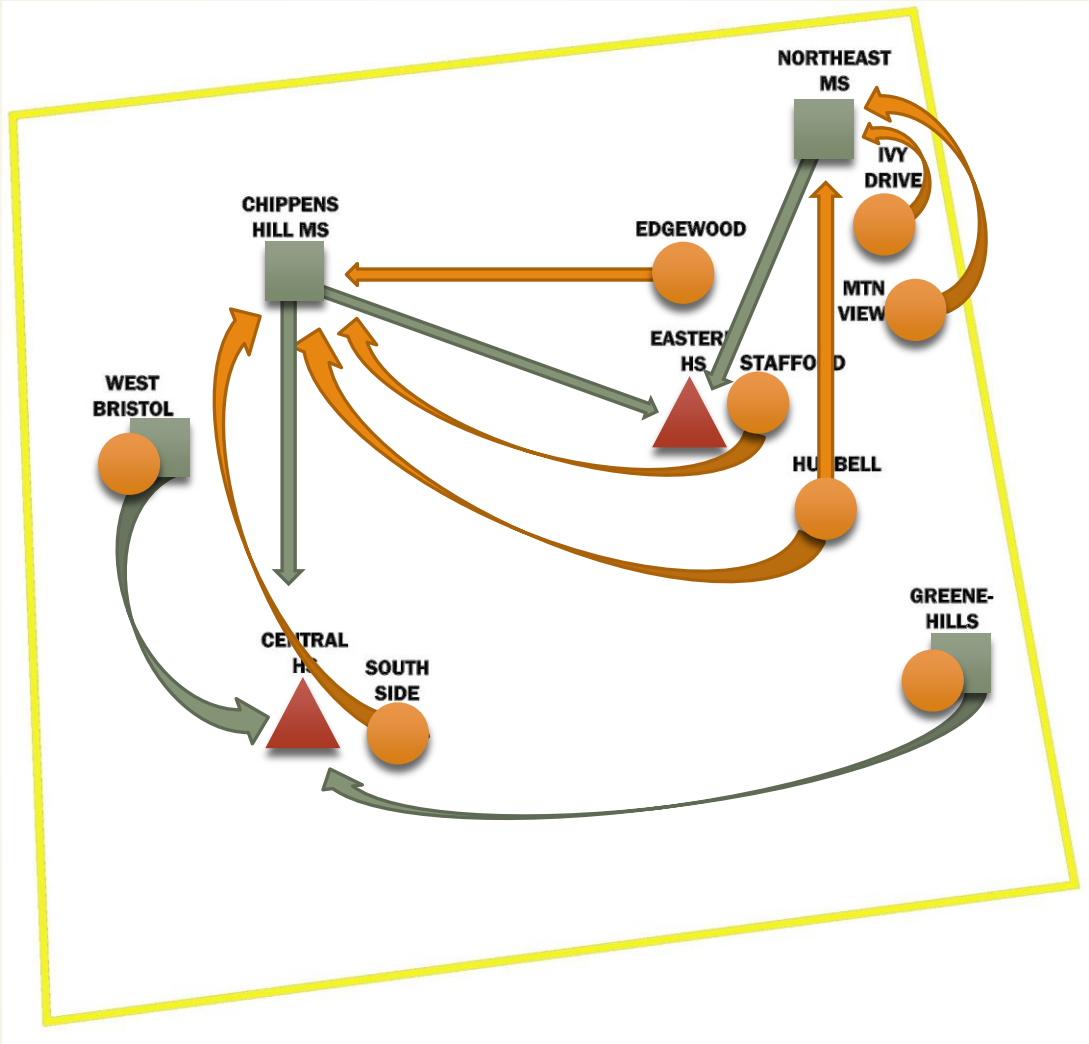
- 2 High Schools
- 2 Middle Schools (6-8)
- 2 K-8 Schools
- 6 Elementary (PK-5)



Feeders

**MS FEEDING HS**

- ▲ 2 High Schools
- 2 Middle Schools (6-8)
- 2 K-8 Schools
- 6 Elementary (PK-5)



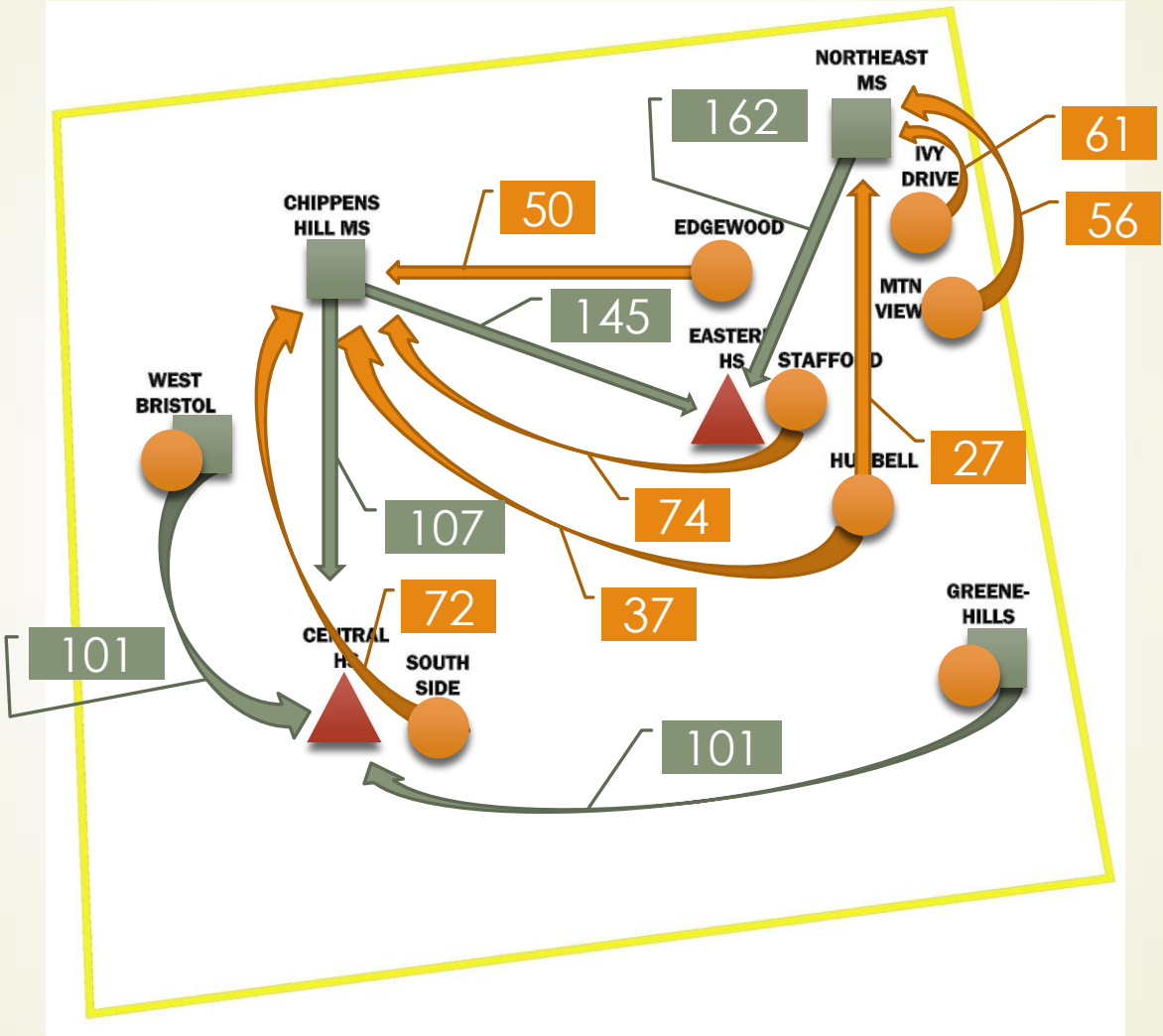


Feeders

**STUDENT FLOWS - 2017-18**

- ▲ 2 High Schools
- 2 Middle Schools (6-8)
- 2 K-8 Schools
- 6 Elementary (PK-5)

Note: Based on 2017-18 enrollment projections, not actual enrollments



## Arts Magnet



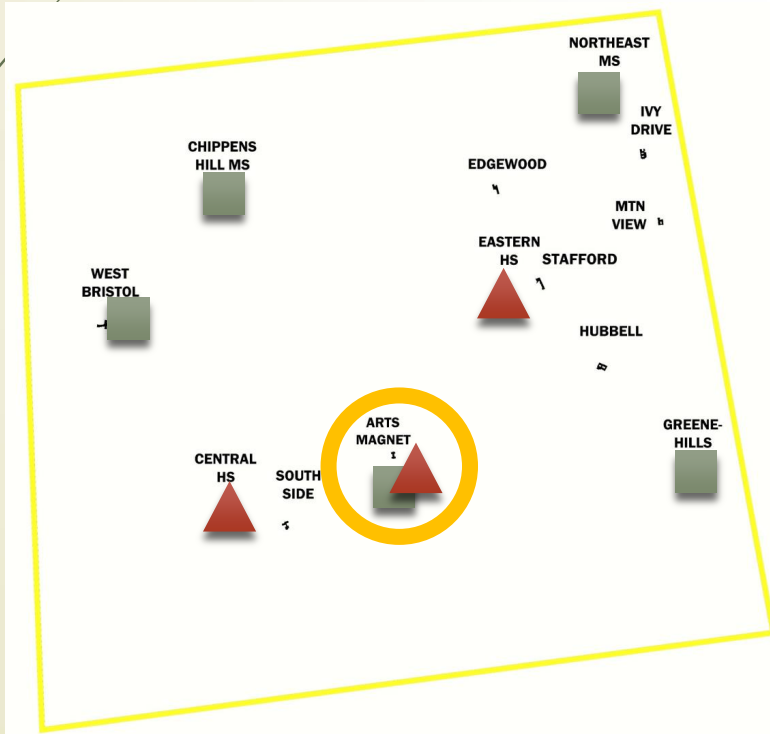
### Arts Magnet School, Memorial Boulevard

ENROLLMENT, grades 6-12:

525 students in 7 grades = 75 average/grade





Assuming the 75 seats in each grade are equally available to each school, the following enrollment adjustments have been included:

- Chippens Hill, -56 students
- Northeast MS, -56 students
- Greene-Hills, -56 students
- West Bristol, -56 students
- Central HS, -150 students
- Eastern HS, -150 students
- Arts Magnet, +525 students




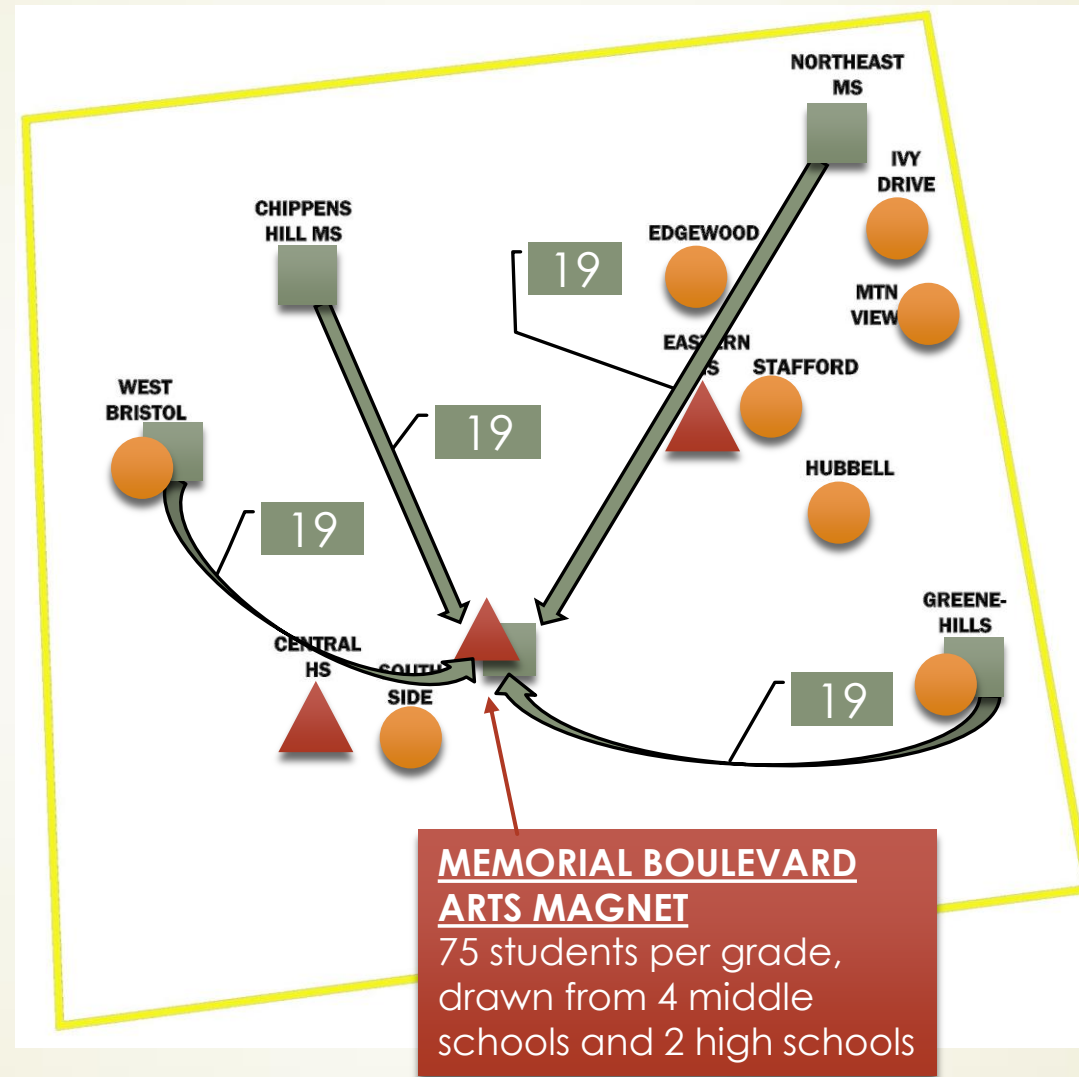
## Feeders

### STUDENT FLOWS

-  2 High Schools
-  2 Middle Schools (6-8)
-  2 K-8 Schools
-  6 Elementary (PK-5)

### FUTURE

-  1 Arts Magnet (6-12)
- The number of students in each grade is 75





# OPTIONS AND COMPARISONS

1. **Do Nothing**, continue with the same configuration
2. **All K-8 Schools**, build 1 new and reno/add 2 schools
3. **One Middle School**, Northeast
4. **One Middle School**, Chippens Hill

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## Other questions:

Analyze Two High Schools: can one HS be closed?

Arts Magnet School: what is the enrollment impact on district?



# 1. DO NOTHING OPTION

Schools continue in their present configuration.

Maintenance costs and necessary upgrades will continue.

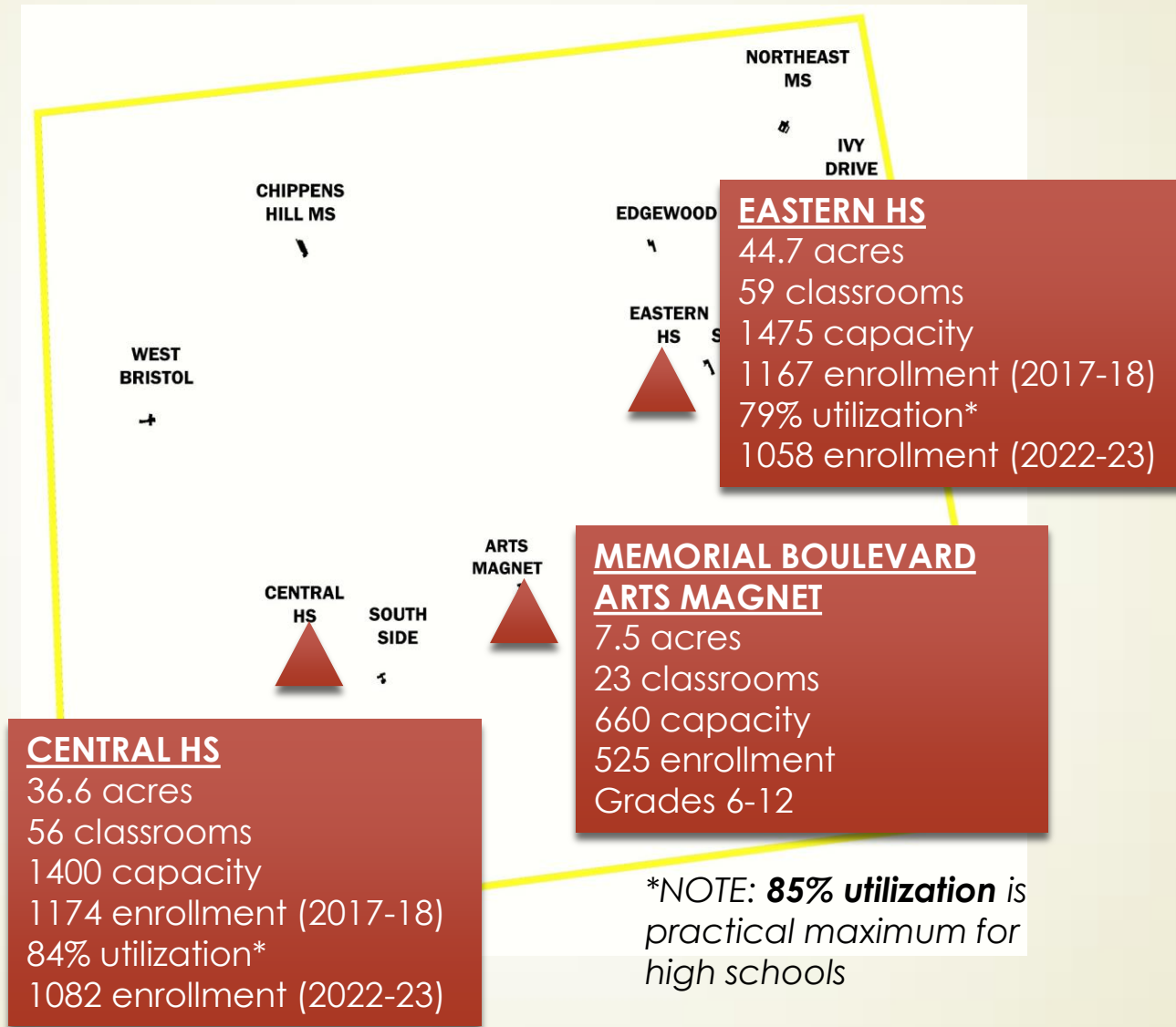
## Option 1

### EXISTING CONDITIONS

- ▲ 2 High Schools  
Grades 9-12

### FUTURE

- ▲ 1 Arts Magnet School  
Grades 6-12





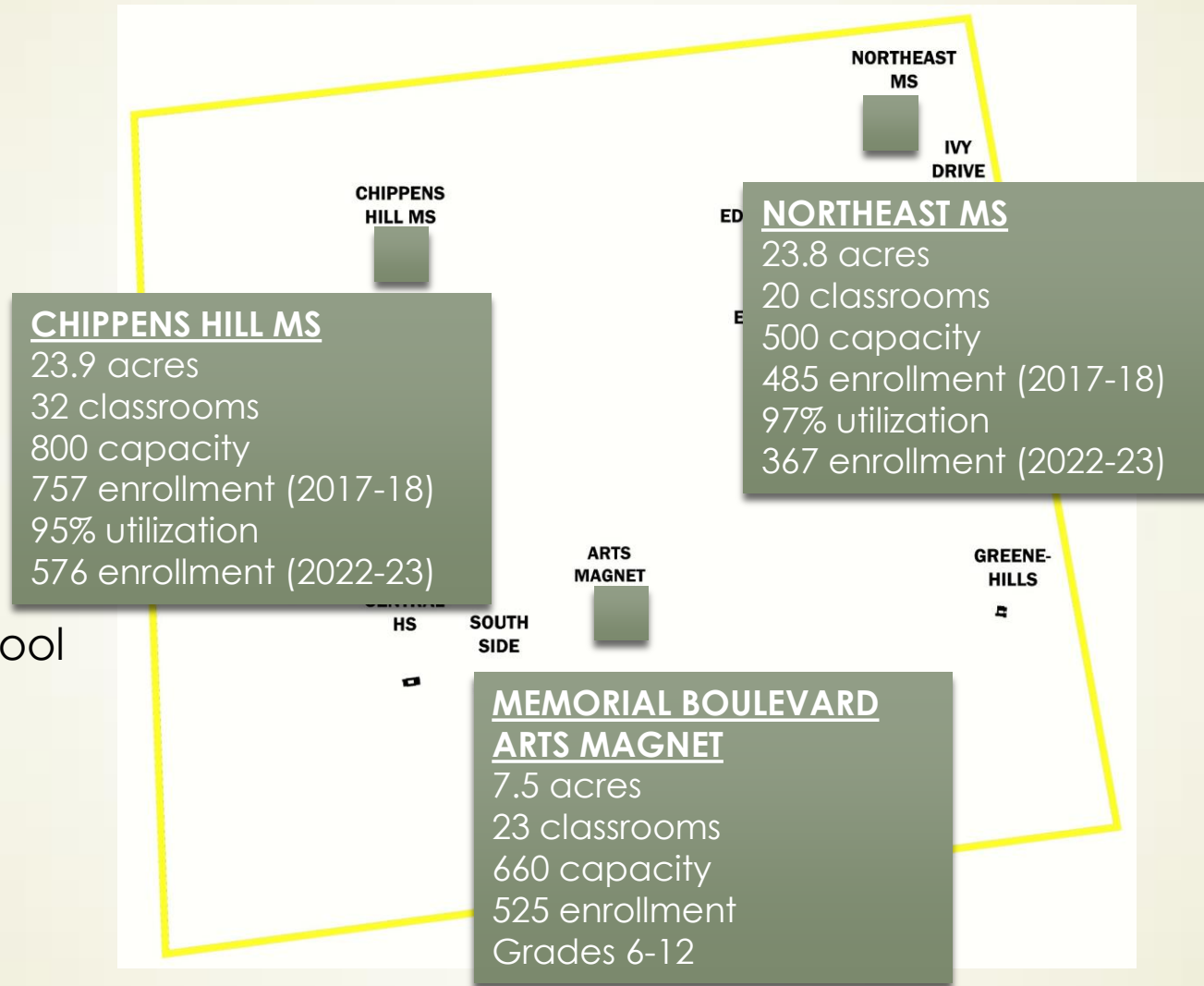
## Option 1

### EXISTING CONDITIONS

- 2 Middle Schools  
Grades 6-8

### FUTURE

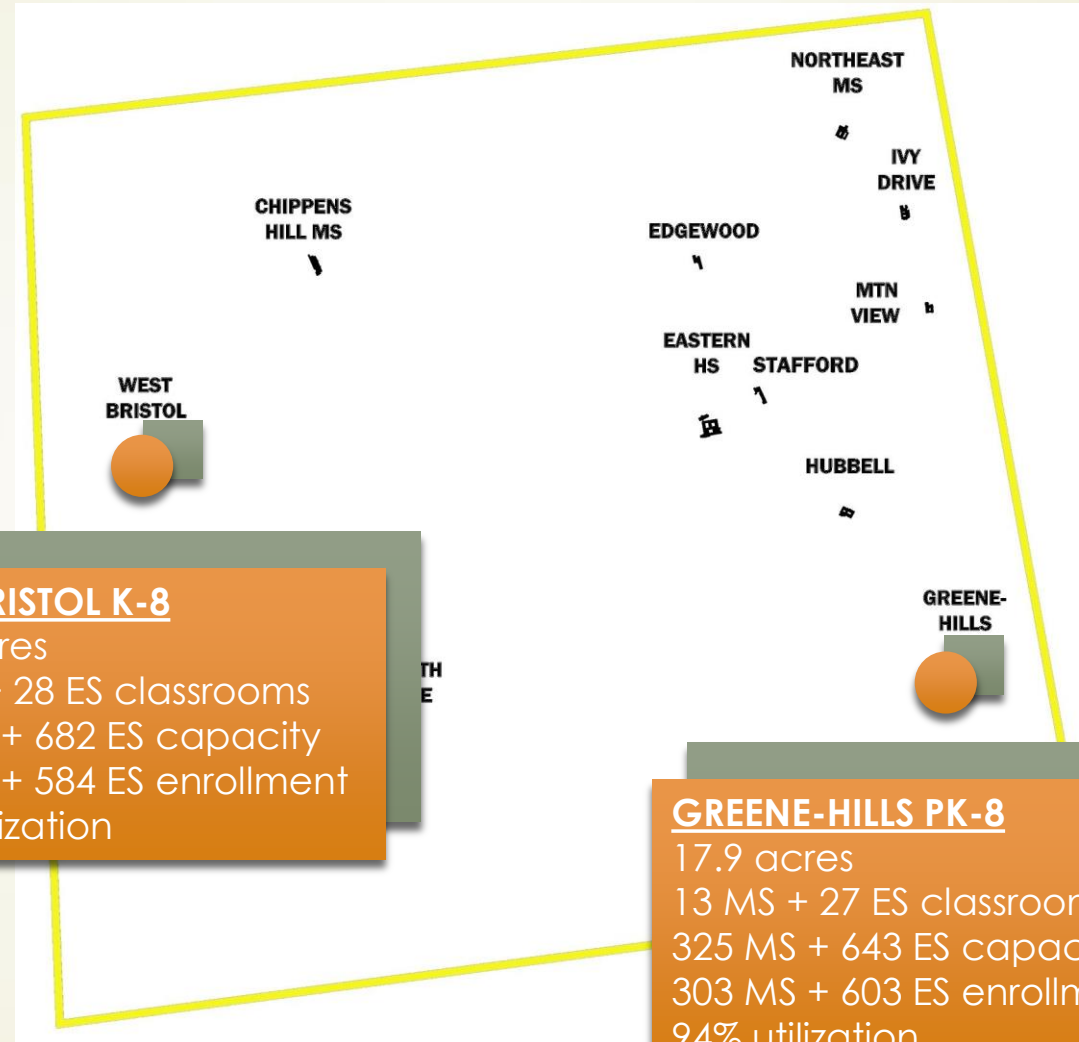
- 1 Arts Magnet School  
Grades 6-12



## Option 1

### EXISTING CONDITIONS

2 K-8 Schools



#### WEST BRISTOL K-8

28.6 acres  
13 MS + 28 ES classrooms  
325 MS + 682 ES capacity  
303 MS + 584 ES enrollment  
88% utilization

#### GREENE-HILLS PK-8

17.9 acres  
13 MS + 27 ES classrooms  
325 MS + 643 ES capacity  
303 MS + 603 ES enrollment  
94% utilization

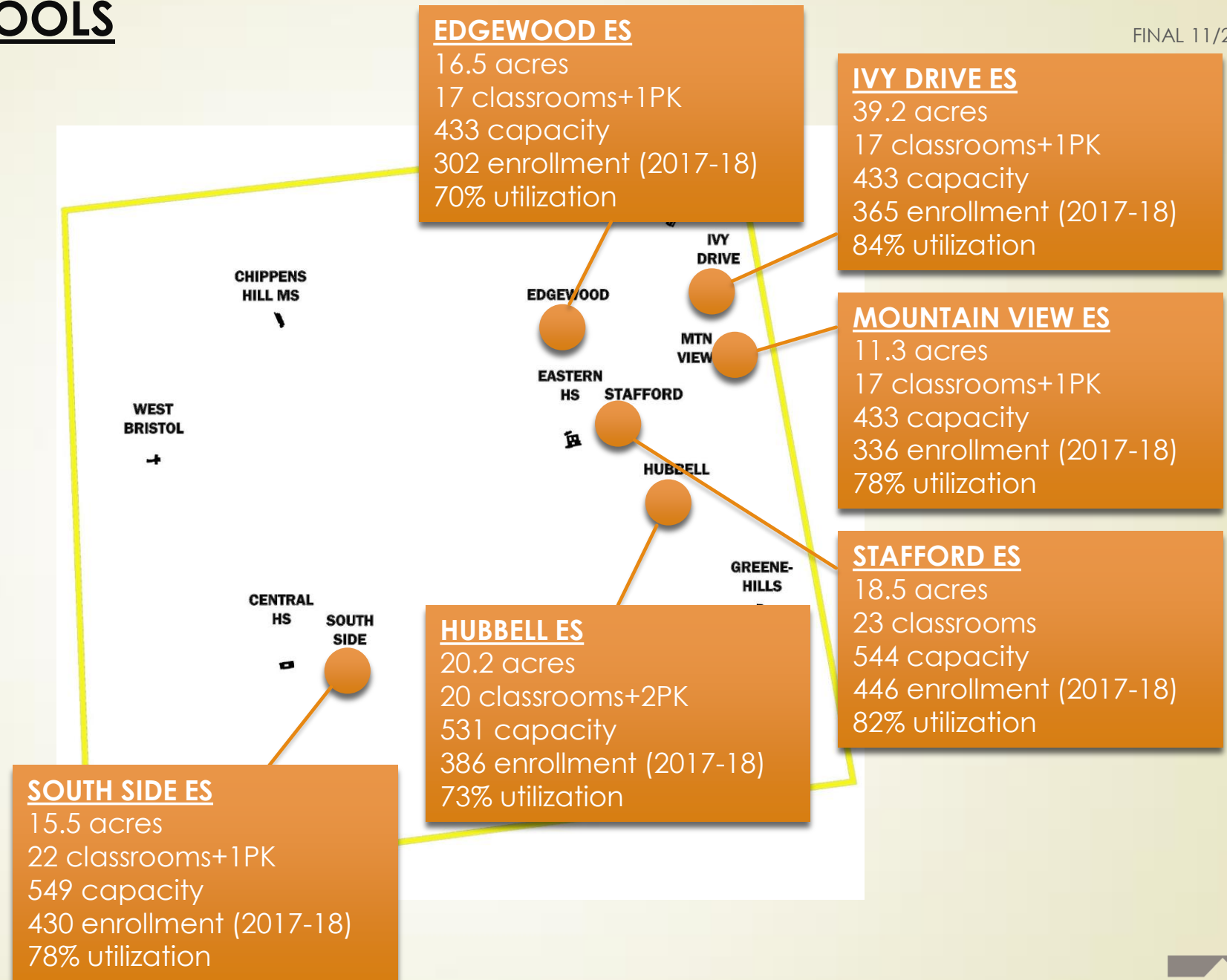
# BRISTOL PUBLIC SCHOOLS

FINAL 11/21/17

## Option 1

### EXISTING CONDITIONS

- 6 Elementary Schools  
Grades PK (or K) to 5





## 2. ALL K-8 SCHOOLS OPTION

Chippens Hill Middle School converted into PK-8 School.

New PK-8 on Northeast MS site, existing MS demolished.

2 Renovated PK-8 Schools on Ivy Drive and Mountain View sites.



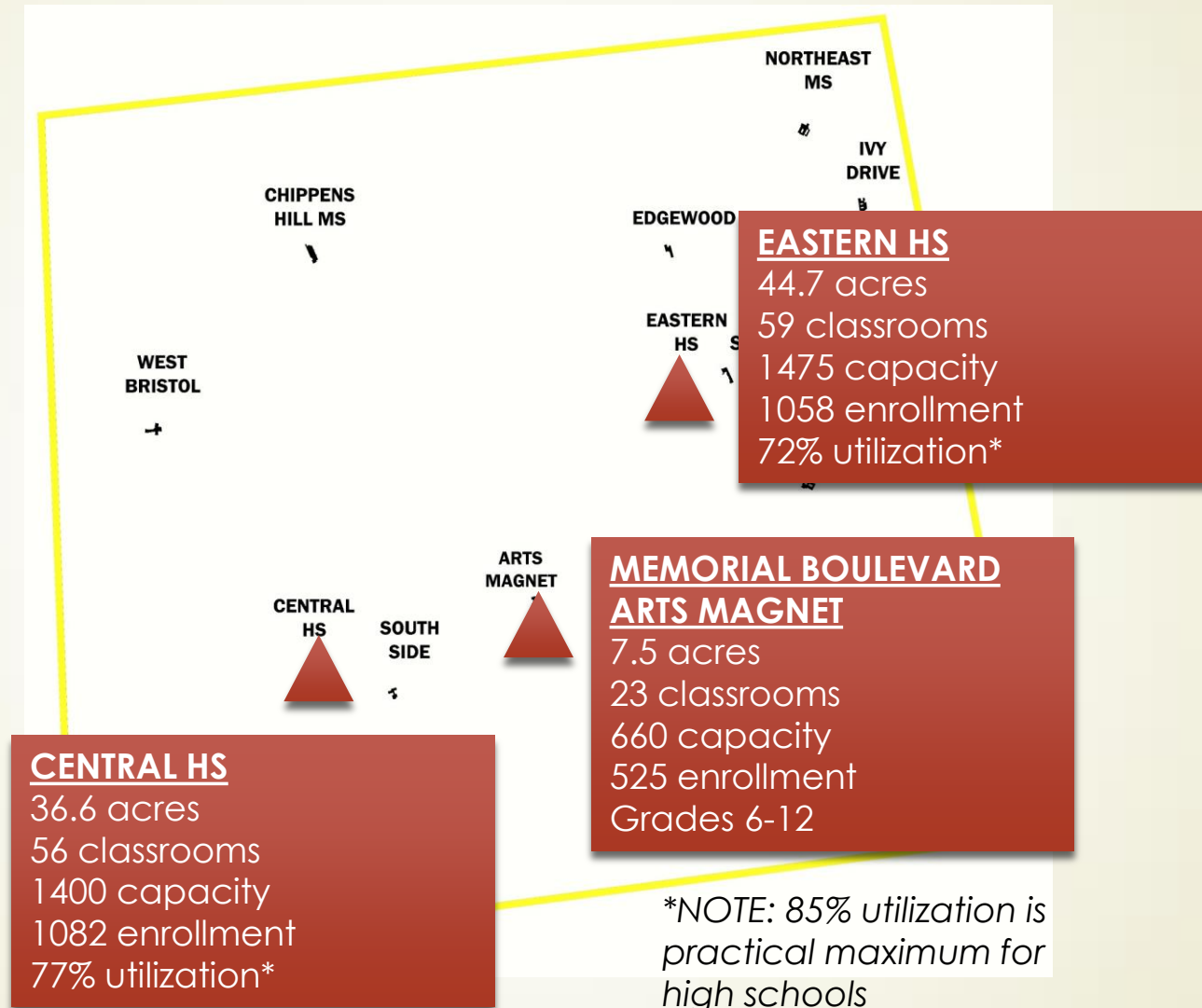
## Option 2

### HIGH SCHOOLS CONTINUE

- ▲ 2 High Schools  
Grades 9-12  
(Enrollments: **2022-23**)

### FUTURE

- ▲ 1 Arts Magnet School  
Grades 6-12



# BRISTOL PUBLIC SCHOOLS

FINAL 11/21/17

## Option 2

### NO K-5 SCHOOLS, ALL K-8

6 K-8 Schools, retire  
four K-5 & PK-5  
schools

(Enrollments: **2022-23**)

#### CHIPPENS HILL RENO PK-8

23.9 acres  
14 MS + 31 ES classrooms  
350 MS + 744 ES capacity  
248 MS + 575 ES enrollment  
75% utilization

#### WEST BRISTOL K-8

28.6 acres  
13 MS + 28 ES classrooms  
325 MS + 682 ES capacity  
248 MS + 575 ES enrollment  
82% utilization

#### NORTHEAST NEW PK-8

23.8 acres  
15 MS + 28 ES classrooms  
375 MS + 662 ES capacity  
283 MS + 625 ES enrollment  
88% utilization

#### IVY DRIVE RENO: PK-8

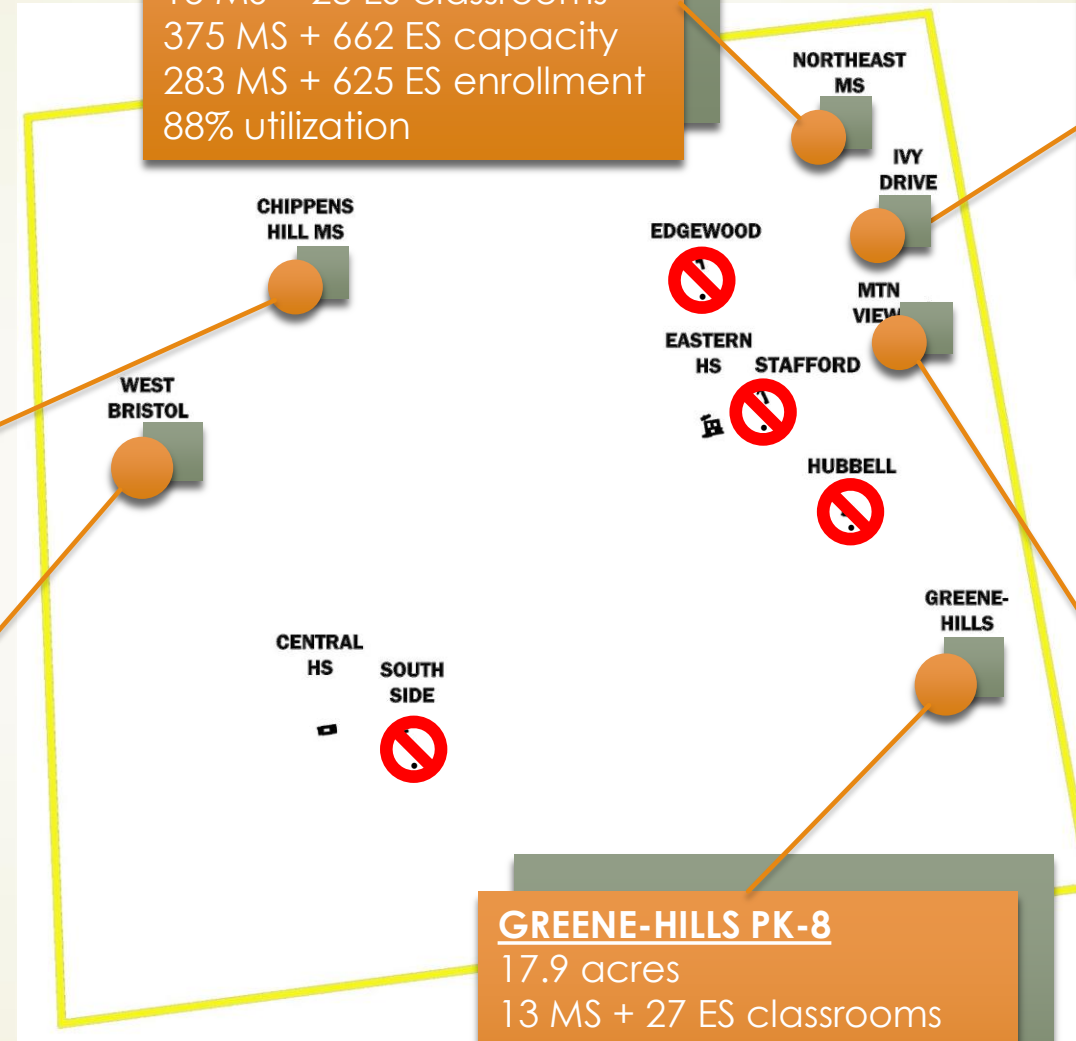
39.2 acres  
15 MS + 26 ES classrooms  
375 MS + 618 ES capacity  
221 MS + 602 ES enrollment  
83% utilization

#### MTN VIEW RENO: PK-8

11.3 acres  
15 MS + 26 ES classrooms  
375 MS + 618 ES capacity  
221 MS + 602 ES enrollment  
83% utilization

#### GREENE-HILLS PK-8

17.9 acres  
13 MS + 27 ES classrooms  
364 MS + 672 ES capacity  
257 MS + 599 ES enrollment  
83% utilization



Option 2

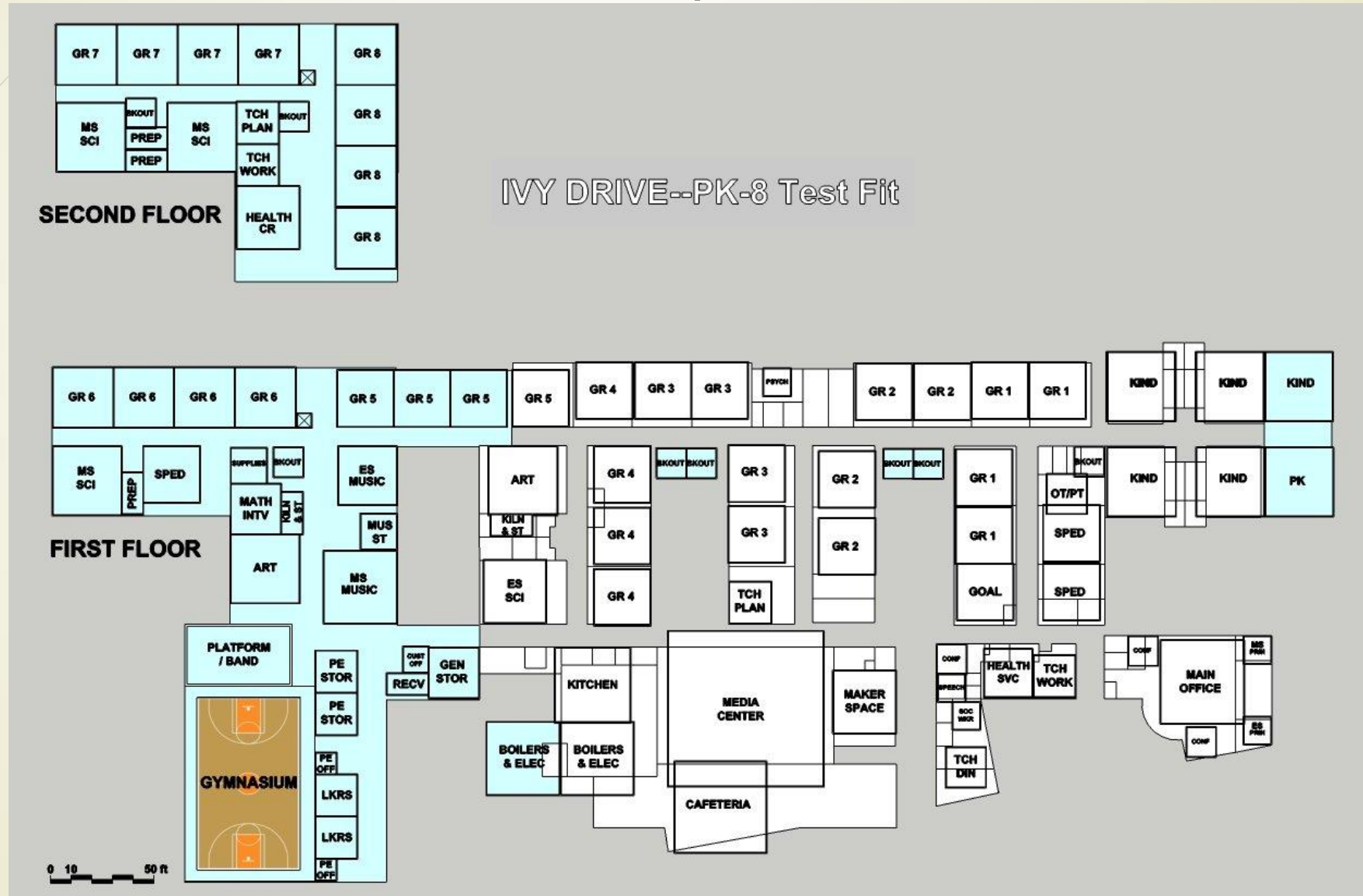
# TEST FIT PLANS – Ivy Drive





Option 2

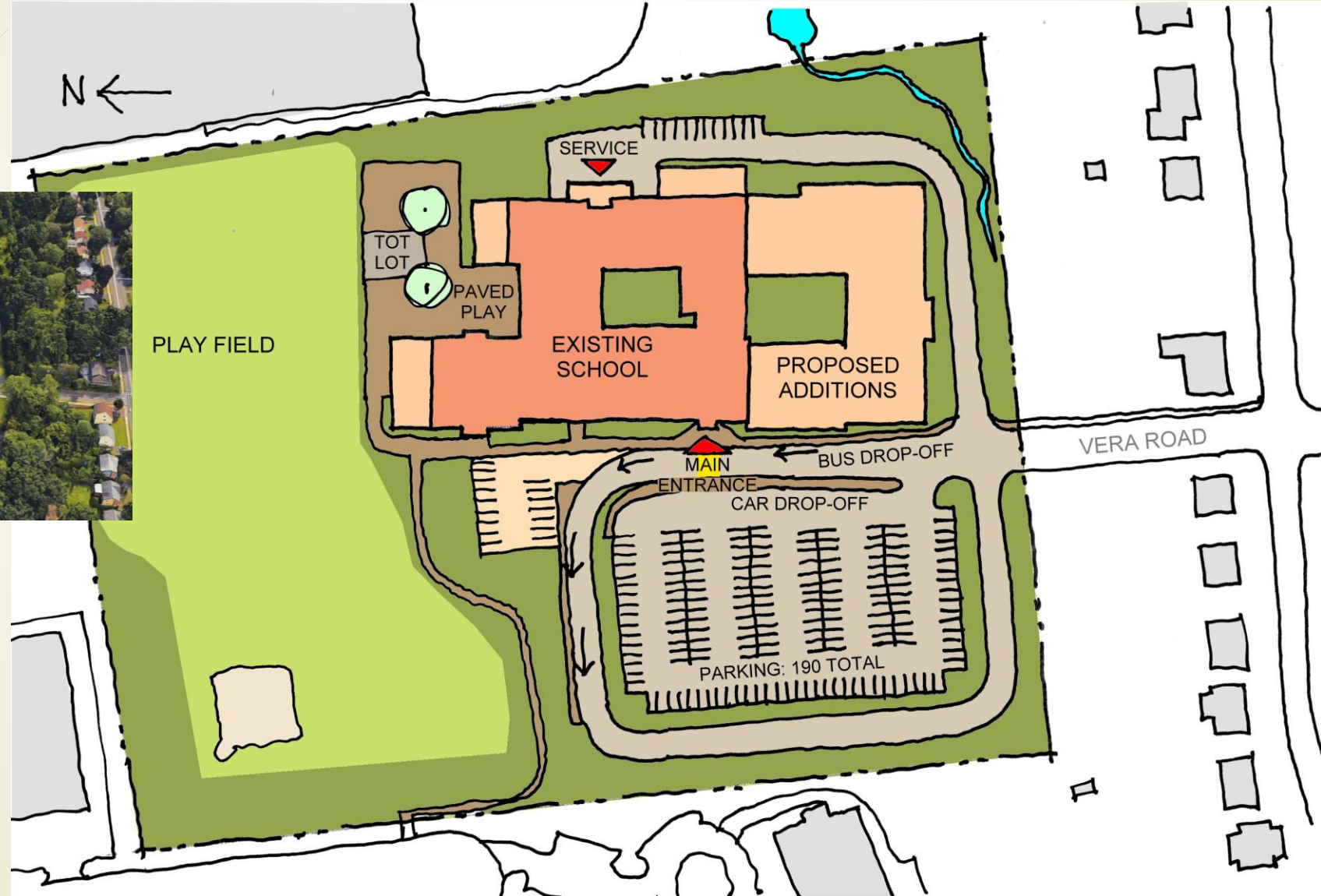
# TEST FIT PLANS – Ivy Drive





Option 2

# TEST FIT PLANS – Mountain View



# TEST FIT PLANS – Mountain View





### 3. ONE MIDDLE SCHOOL OPTION

Chippens Hill Middle School converted into PK-8 School(s).

Northeast is replaced with a new Middle School.

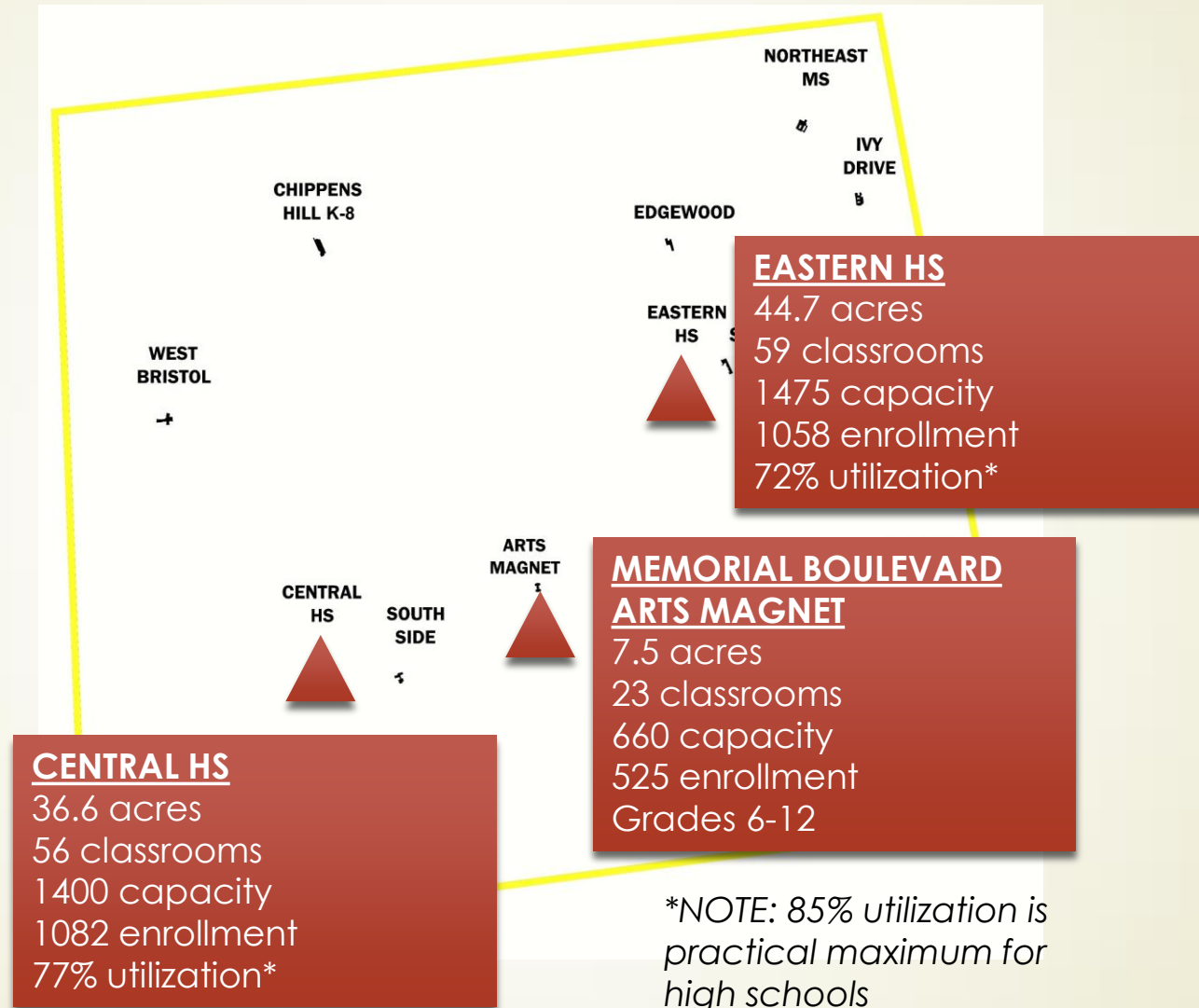
## Option 3

### HIGH SCHOOLS CONTINUE

- ▲ 2 High Schools  
Grades 9-12  
(Enrollments: **2022-23**)

### FUTURE

- ▲ 1 Arts Magnet School  
Grades 6-12





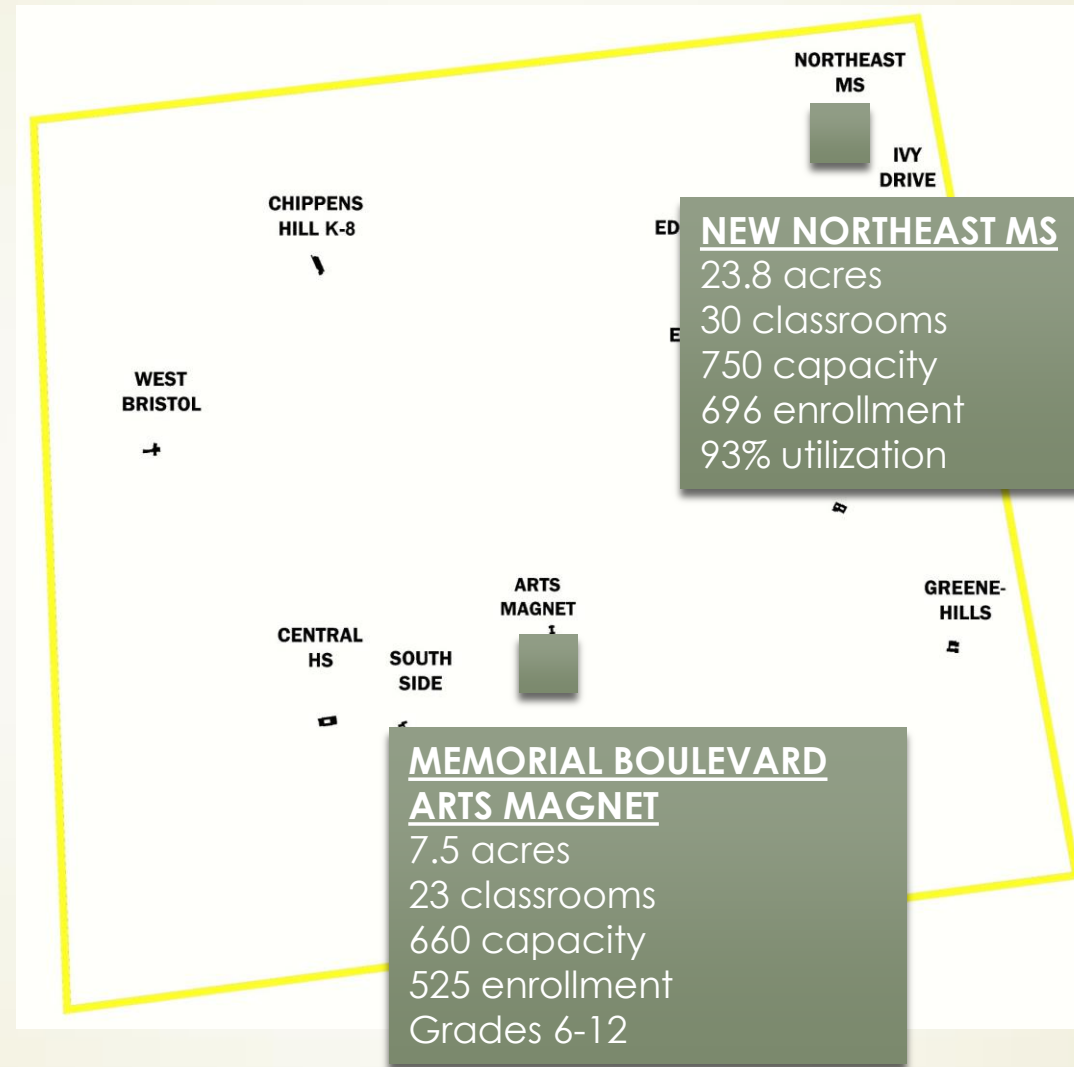
## Option 3

### ONE NEW MS ON EXIST. SITE

1 Middle School  
Grades 6-8  
(Enrollments: **2022-23**)

### FUTURE

1 Arts Magnet School  
Grades 6-12



## Option 3

### LARGEST MS BECOMES K-8

3 K-8 Schools

(Enrollments: 2022-23)

#### CHIPPENS HILL PK-8

23.9 acres

16 MS + 32 ES classrooms

448 MS + 794 ES capacity

341 MS + 701 ES enrollment

84% utilization

CHIPPENS  
HILL K-8

WEST  
BRISTOL

#### WEST BRISTOL K-8

28.6 acres

13 MS + 28 ES classrooms

364 MS + 666 ES capacity

232 MS + 584 ES enrollment

79% utilization

EDGEWOOD

EASTERN  
HS

STAFFORD

HUBBELL

ARTS  
MAGNET

GREENE-  
HILLS

#### GREENE-HILLS PK-8

17.9 acres

13 MS + 27 ES classrooms

364 MS + 672 ES capacity

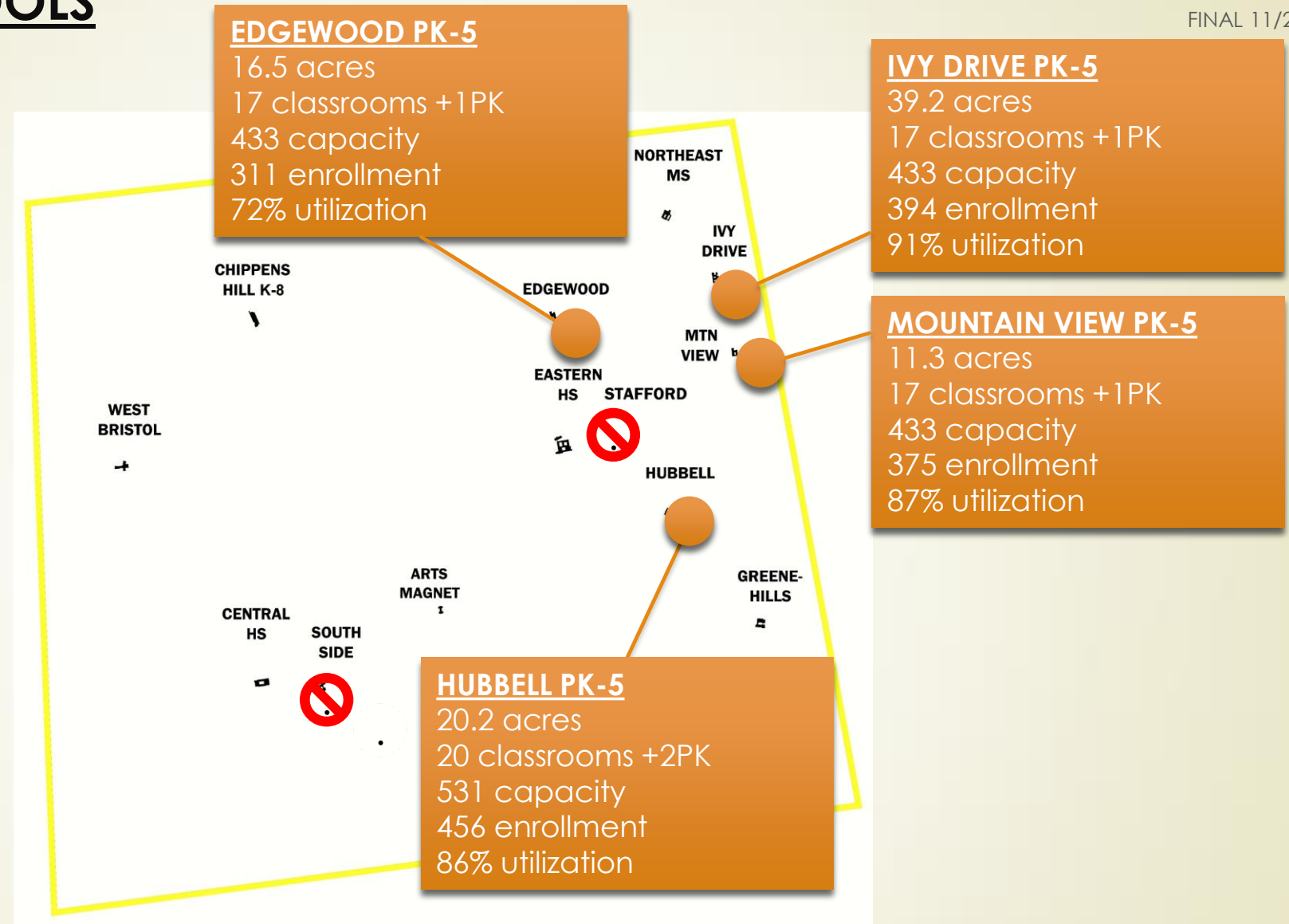
241 MS + 599 ES enrollment

81% utilization

## Option 3

### FEWER K-5 SCHOOLS

- 4 Elementary Schools  
Grades PK (or K) to 5.  
2 Buildings Retired  
(Enrollments: **2022-23**)





## 4. ONE MIDDLE SCHOOL OPTION

Northeast Middle School converted into PK-8 School.

Chippens Hill remains as a Middle School.

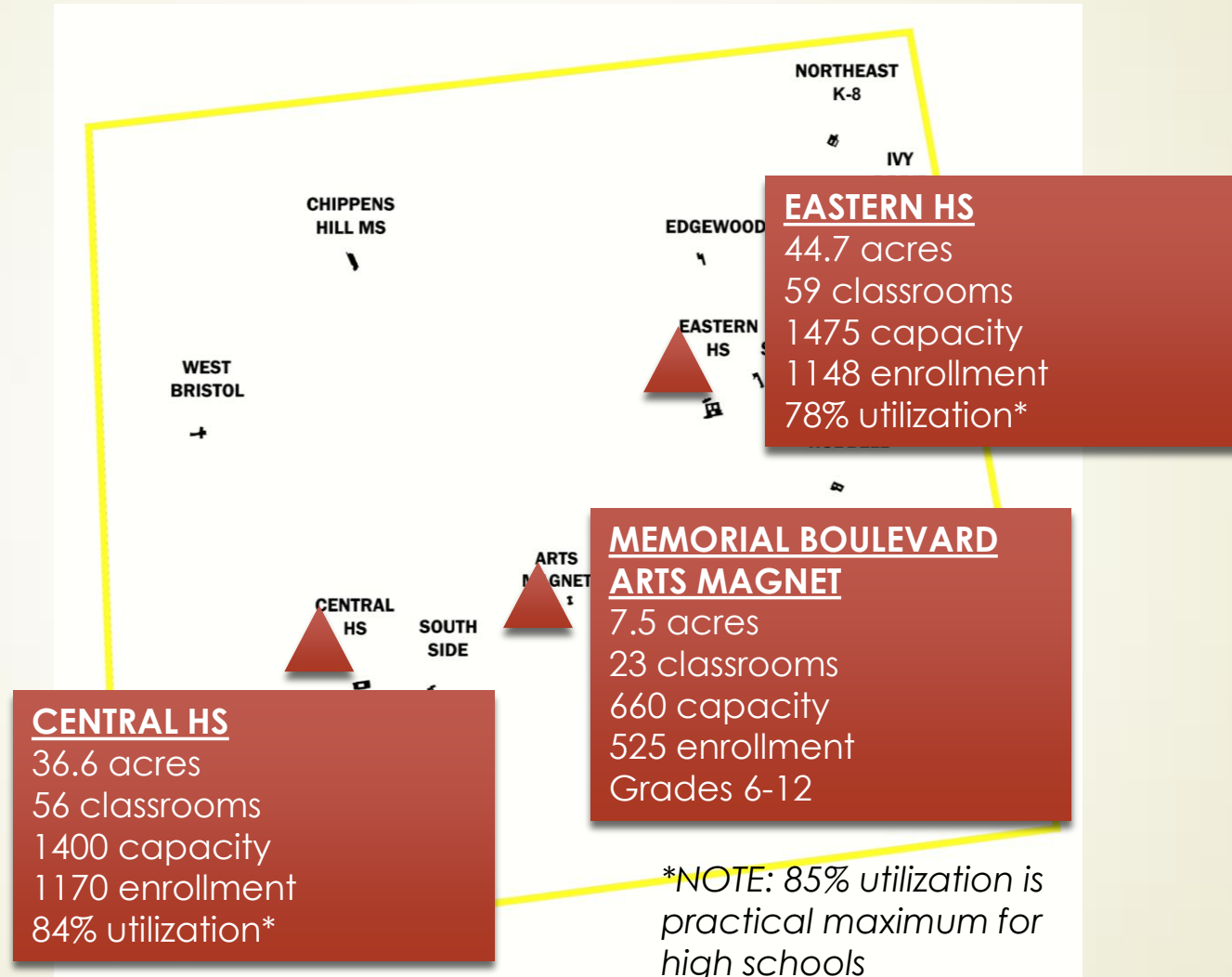
Memorial becomes 6-12 Arts Magnet School



## Option 4

### HIGH SCHOOLS

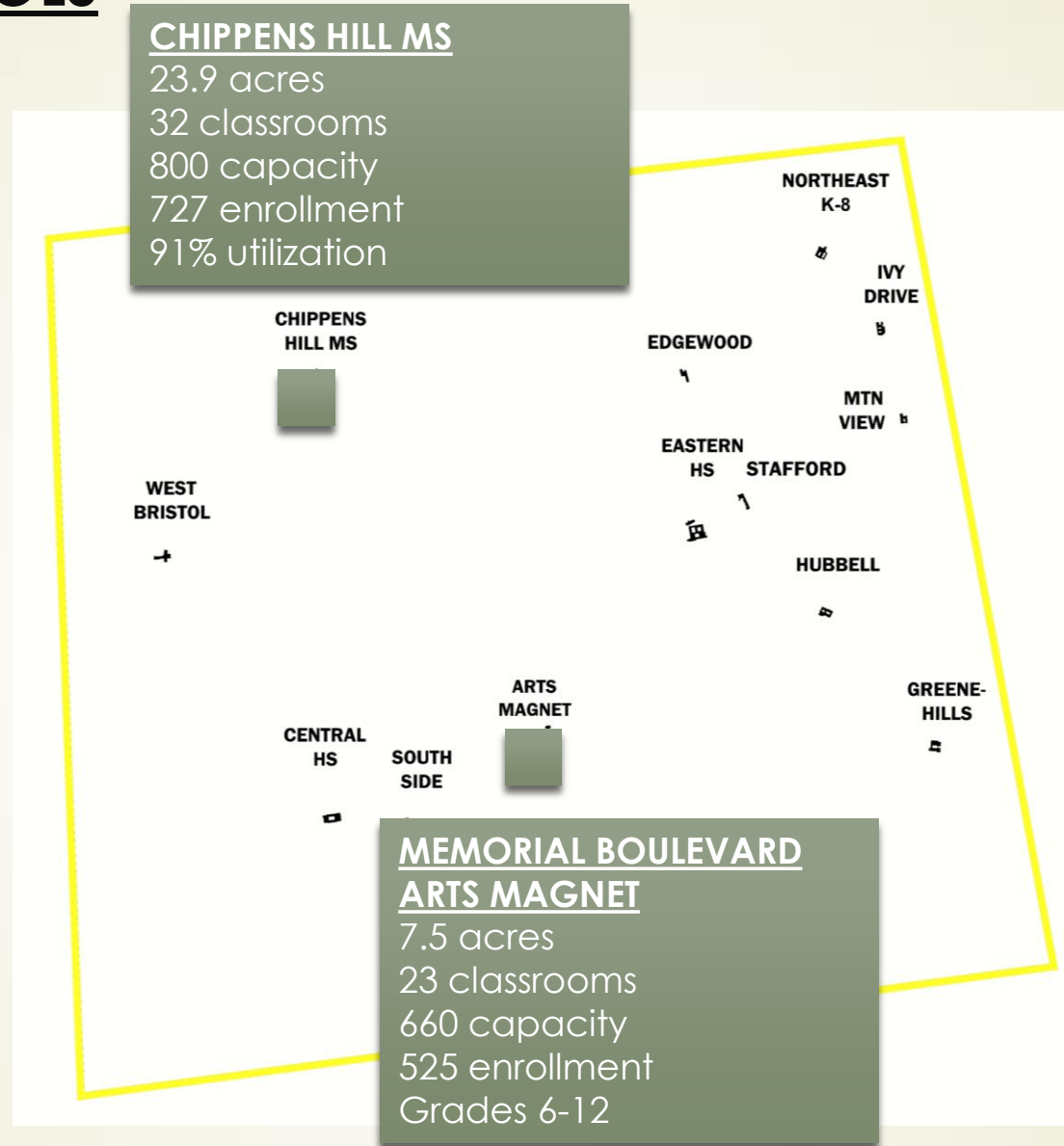
- ▲ 2 High Schools  
Grades 9-12, plus
- ▲ 1 Arts Magnet School  
Grades 6-12  
(Enrollments: **2022-23**)



## Option 4

### ONE MS ON EXIST. SITE

- 1 Middle School  
Grades 6-8, plus
- 1 Arts Magnet School  
Grades 6-12  
(Enrollments: **2022-23**)



## Option 4

### LARGEST MS BECOMES K-8

3 K-8 Schools  
(Enrollments: 2022-23)

#### WEST BRISTOL K-8

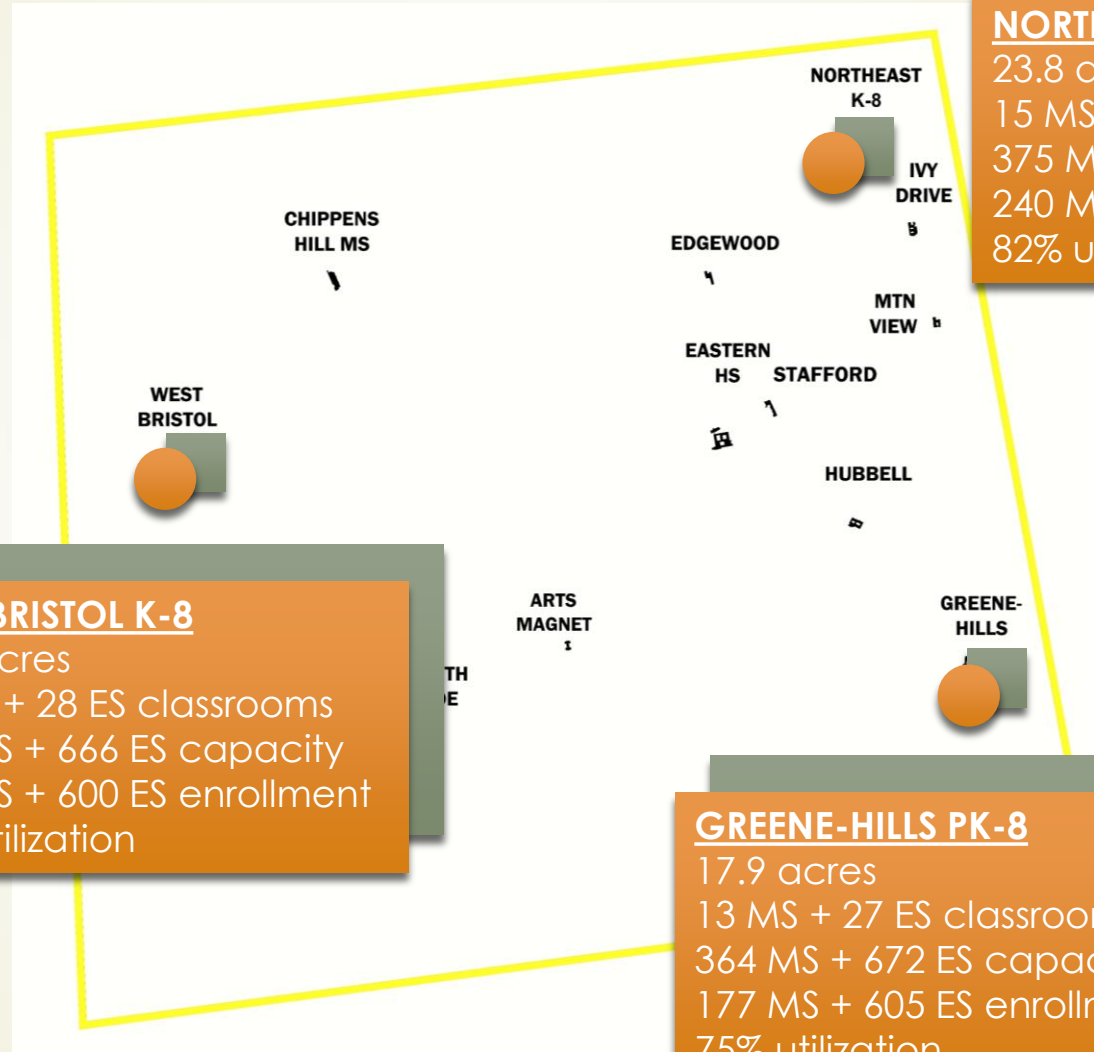
28.6 acres  
13 MS + 28 ES classrooms  
364 MS + 666 ES capacity  
168 MS + 600 ES enrollment  
75% utilization

#### NORTHEAST PK-8

23.8 acres  
15 MS + 30 ES classrooms  
375 MS + 640 ES capacity  
240 MS + 590 ES enrollment  
82% utilization

#### GREENE-HILLS PK-8

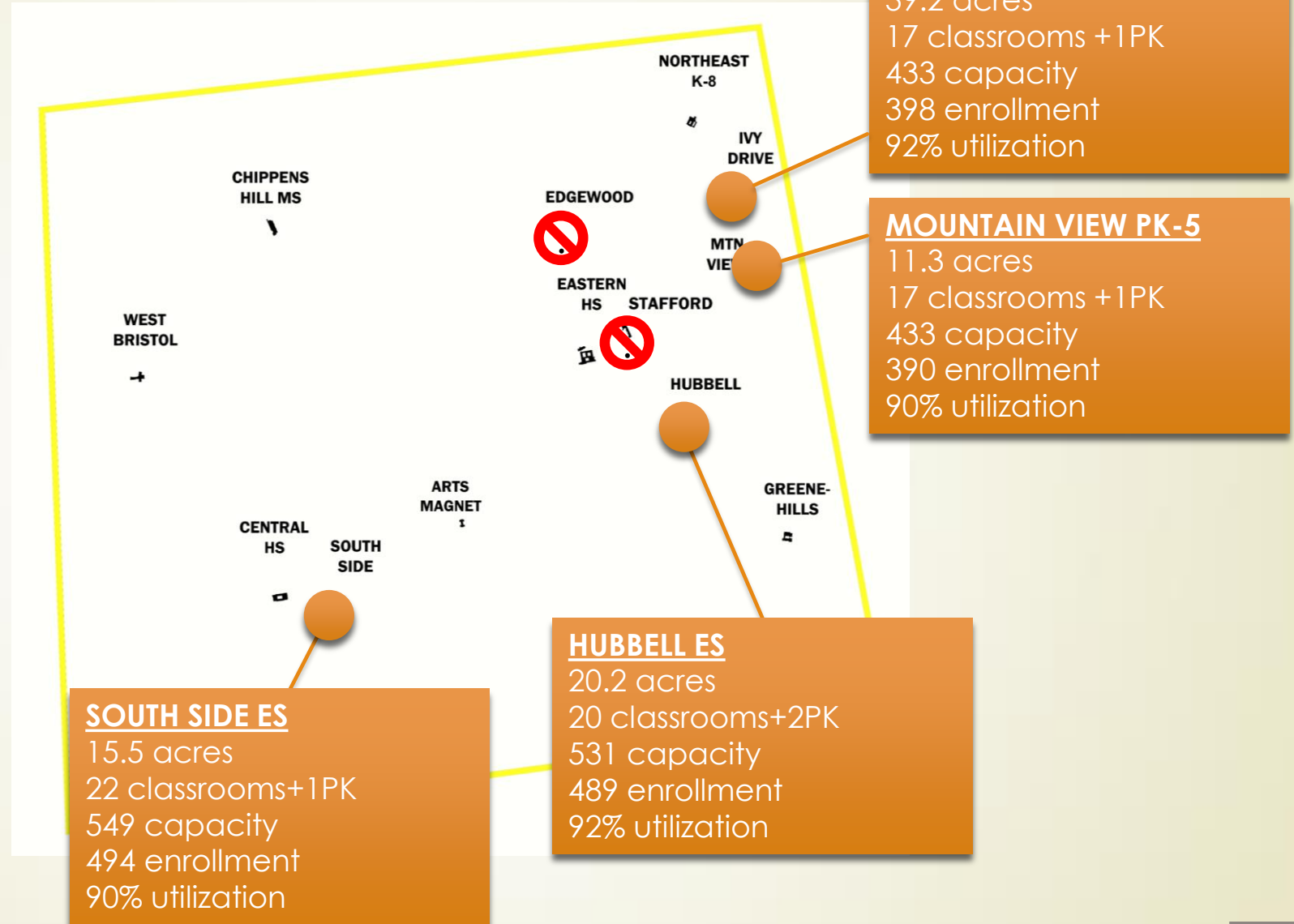
17.9 acres  
13 MS + 27 ES classrooms  
364 MS + 672 ES capacity  
177 MS + 605 ES enrollment  
75% utilization



## Option 4

### FEWER K-5 SCHOOLS

- 4 Elementary Schools  
Grades PK to 5; all 4  
feed Chippens Hill MS.  
**2 Buildings Retired**  
(Enrollments: **2022-23**)

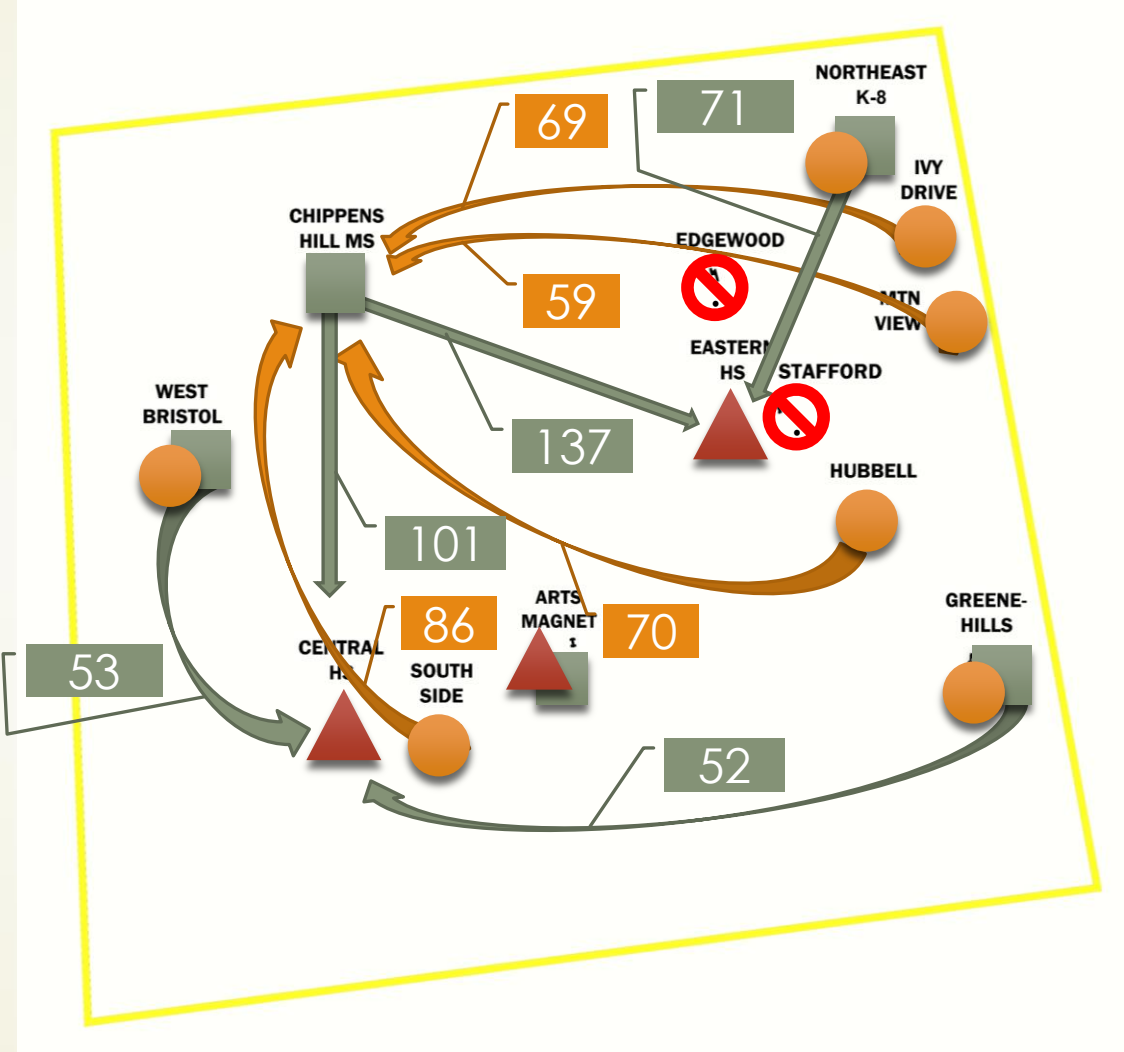




Option 4

**STUDENT FLOWS - 2022-18**

- ▲ 2 High Schools
- ▲ 1 Arts Magnet (6-12)
- 1 Middle School (6-8)
- 3 K-8 Schools
- 4 Elementary (PK-5)



Cost

## BUDGET COMPARISON: OPTION 1 to OPTION 4

### DO NOTHING - Capital Improvement Plan

No.	Description	Total Cost	*State Reimbursement: Including 5% Reduction for Ineligible Cost	Cost to City
1	Southside HVAC	\$3,597,160	0%	\$3,597,160
2	Stafford Roof & Masonry Repointing	\$2,043,575	0%	\$2,043,575
3	Edgewood Renovate as New with addition	\$25,909,470	64%	\$9,327,409
4	Northeast Renovate as New (updated)	\$34,371,994	64%	\$12,373,918
5	Southside Renovate as New (updated)	\$36,793,344	64%	\$13,245,604
6	Stafford Renovate as New (updated)	\$28,770,918	64%	\$10,357,530
7	Hubbell Renovate as New	\$20,140,646	64%	\$7,250,633
				<u>\$58,195,829</u> TOTAL COST TO CITY

### OPTION 4

No.	Description	Total Cost	* State Reimbursement: Including 5% Reduction for Ineligible Cost	Cost to City
1	Northeast Renovate as New and Addition**	\$72,356,659	64%	\$26,048,397
2	Southside Renovate as New	\$36,793,344	64%	\$13,245,604
3	Hubbell Renovate as New	\$20,140,646	64%	\$7,250,633
				<u>\$46,544,634</u> TOTAL COST TO CITY

\* State Reimbursment 2017 for  
"Renovation" Status = 68.93%-5% for  
Ineligibles= 63.98%.

\*\* State Reimbursment 2017 for "New  
Construction" = 58.93%-5% for  
Ineligibles= 53.98%.

# OPTIONS AND COMPARISONS

1. **Do Nothing**, continue with the same configuration
2. **All K-8 Schools**, build 1 new and reno/add 2 schools
3. **One Middle School**, Northeast
4. **One Middle School**, Chippens Hill

**PREFERRED OPTION**

## Next Steps

# NEXT STEPS

1. Board of Ed and Board of Finance **approval of Option 4**
2. Consider **bonding scenarios and timelines**, include Arts Magnet
3. Adopt a **Masterplan** to complete the 3 projects in Option 4  
More phasing details, useful in presentations to both state and to city residents
4. **Submit ED049** to state for phase 1  
Masterplan as an attachment
5. Form a **building committee**
6. Gather data, conduct testing, start phase 1 **schematic design**

Two H S's

# TWO HIGH SCHOOLS

Since the two high schools are experiencing declining enrollments, is there an opportunity to close one of them?

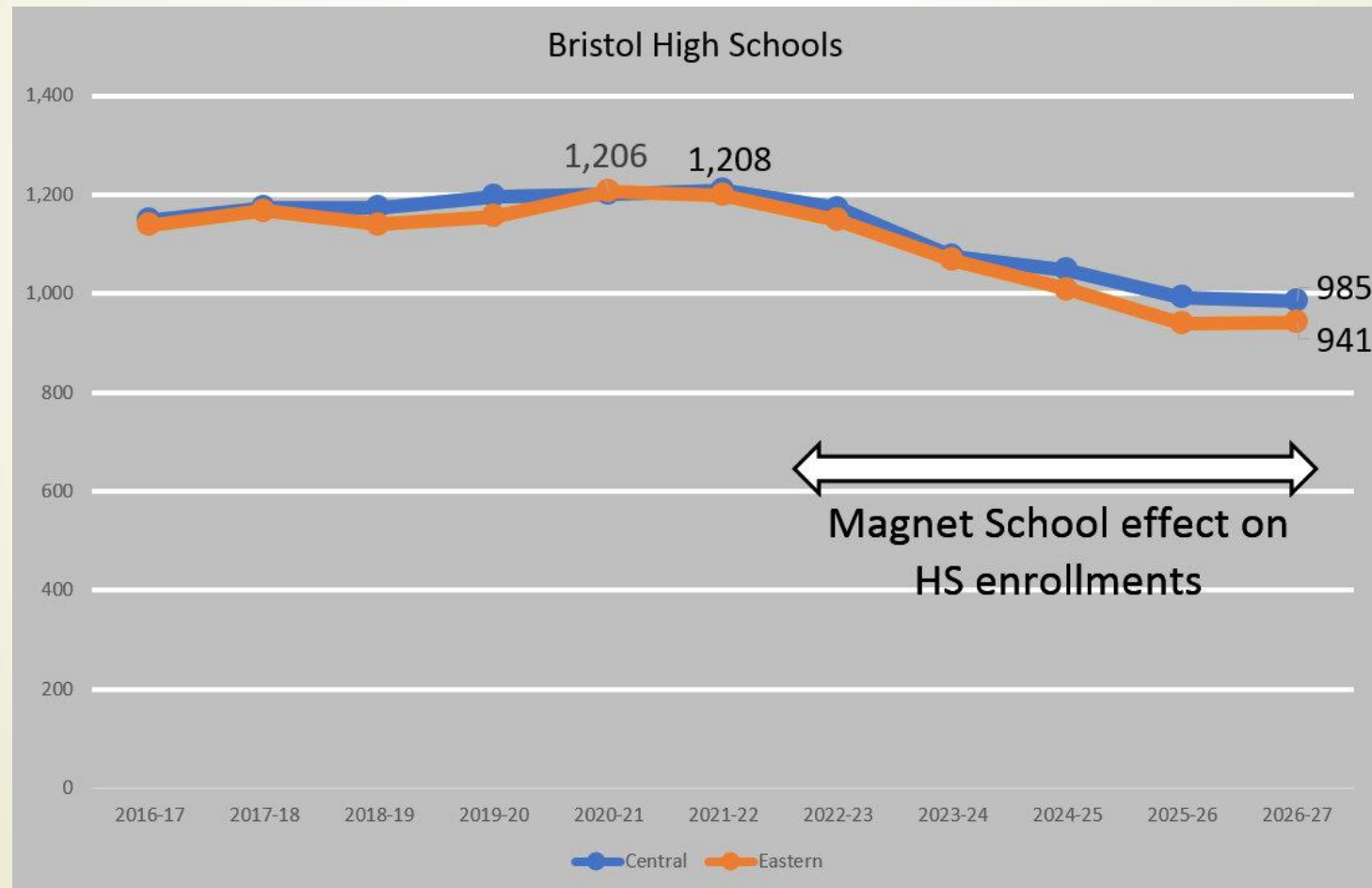


## Two H S's

**Projected Enrollments, including reductions for Magnet School effects:**

Each High School will have approximately 150 students less, as students attend the Arts Magnet School.

Both schools are near their capacity now, but even with the projected drop in enrollments, neither school is large enough to take all of Bristol's high school students.



## Two H S's

CENTRAL HIGH SCHOOL

## Pros:

- Newer building
- In better shape
- More efficient building layout

## Cons:

- Smaller site
- Minimal buffers to neighboring houses
- Building addition more difficult
- Traffic problems

EASTERN HIGH SCHOOL

## Pros:

- Larger site
- Building addition more feasible
- Closer to concentration of population

## Cons:

- Older building
- More worn building
- Main office doesn't control entrance
- More inefficient building layout
- Traffic problems

Either building would need a sizable addition to become the only high school, and additional parking. This would squeeze the site, eliminating some athletic fields.

Neither school has an overwhelming reason to be chosen as the only high school for Bristol.

