



# COOPERATIVE STRATEGIES

COMPLETE FINANCIAL & DEMOGRAPHIC PLANNING FOR EDUCATION



**ELIZABETH SCHOOL DISTRICT**

**FACILITIES MASTER PLAN**

**MAY 2018**

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## **ACKNOWLEDGEMENTS**

Cooperative Strategies, Wold Architects and Engineers, and JHL Constructors extends our appreciation to Elizabeth School District for commissioning this facilities master plan and for its cooperation to make this possible. We also thank the following groups.

### **School Board**

**Carol Hinds**, President  
**Dee Lindsey**, Vice President  
**Cary Karcher**, Treasurer  
**Paul Benkendorf**, Secretary  
**Richard Smith**, Assistant Secretary/Treasurer

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**Ron Patera**, Director of Finance and Operations  
**Melissa Hoelting**, Communications Director  
**Jeff Neer**, Coordinator of Operations and Maintenance  
**Marty Silva**, Technology Director  
**Tammy Krueger**, Principal Running Creek Elementary  
**Regina Montera**, Principal Singing Hills Elementary  
**Pam Eschief**, Principal Elizabeth Middle School  
**Rob McMullen**, Director Frontier High School  
**Bret McClendon**, Principal Elizabeth High School  
**Terry Wilson**, Director of Transportation

### **Cooperative Strategies**

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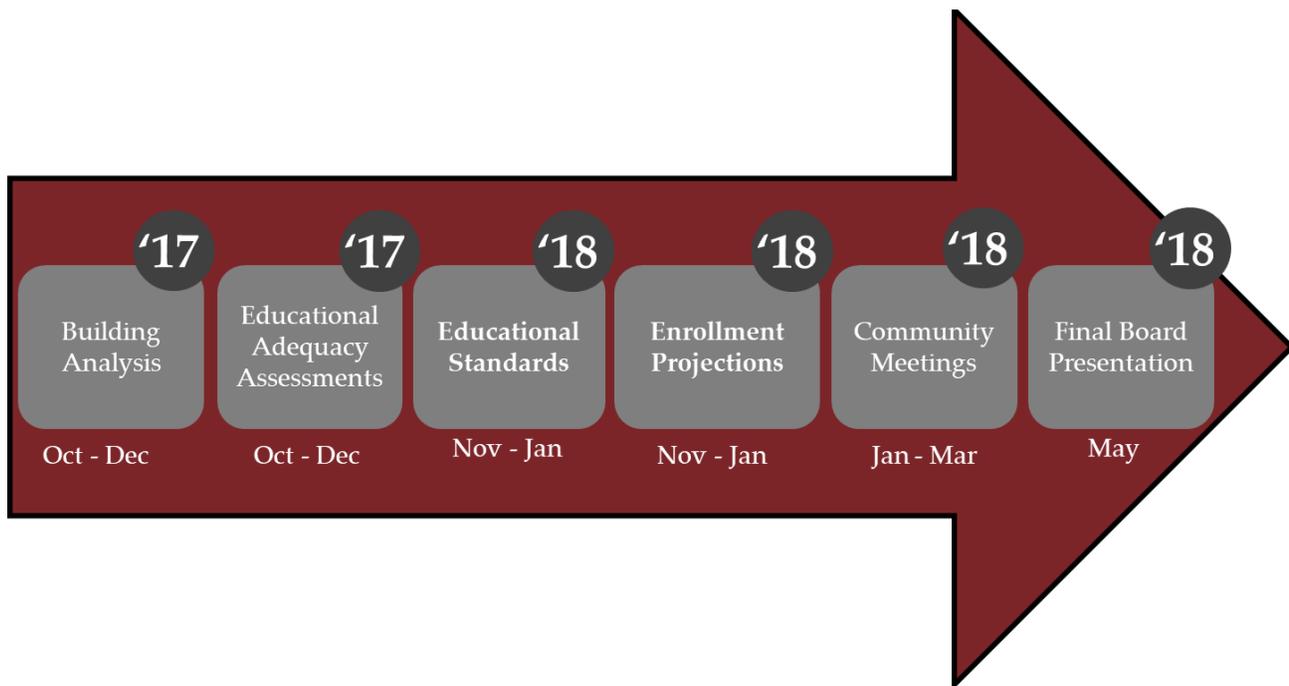
### **JHL Constructors**

**Will Valkner**, Director of Preconstruction Services

### **Elizabeth School District Community**

Thank you for your participation and input in this planning effort.

## EXECUTIVE SUMMARY & RECOMMENDATIONS



### Executive Summary of Process

#### I. Building Analysis

JHL performed an analysis of each school to develop and update the facility condition index. The facility condition index is a percentage of the of the building components that need to be replaced compared to the overall cost to replace the building. The components that need to be replaced is a combination of components that have outlived their life span and those components that are failing. We met with the facilities and maintenance staff to discuss projects that have occurred since the previous analysis and physically walked through each room of each building to assess the visible performance. We asked the maintenance staff of each facility to provide a list of issues they deal with to keep the buildings operational. We evaluated the ADA compliance of each building. We have provided building analysis of Elizabeth High School, Frontier High School, Elizabeth Middle School, Running Creek Elementary School, and Singing Hills Elementary School.

#### II. Enrollment Projections

Cooperative Strategies developed 10-year enrollment projections for Elizabeth School District using the cohort survival methodology. The cohort survival method is a popular methodology used to project K-12 enrollment. This methodology uses historical live birth data and historical student enrollment to age a known population throughout the school grades. The percentage of students who move from grade to grade, year to year (survival ratios) are analyzed to determine a projection ratio that is applied to current and future enrollment to develop the enrollment projections. The cohort survival methodology

inherently considers the net effects of historical trends in migration, housing, dropouts, transfers to and from charter schools, open enrollment, and deaths. This methodology does not assume changes in policies, program offerings, and migration patterns.

The projections presented in this report are meant to serve as a planning tool for the future and represent the most likely direction of the District. Enrollment projections were developed by analyzing the following data:

- Live birth data
- Historical enrollment by school, by grade
- Home based education
- Choice in & out
- Census data
- Building permits
- Planned housing development

A range of enrollment projections, including recommended, moderate, low, and high, were provided to Elizabeth School District. The moderate projection reflects a 3-year weighted average of survival ratios. The low and high projections offer a more conservative and liberal approach surrounding the moderate projection. The recommended projection is based on a detailed analysis of survival ratios by grade, by year and reflects more recent trends in the District.

Enrollment in the Elizabeth School District has decreased by 537 students since the 2003-04 school year. Over the next ten years, based on the recommended projection developed, K – 12 enrollment is projected to increase due to factors such as an increase in resident live birth counts; an increase in the birth to k ratio; and a gain in students at most grade levels in recent years and planned housing development.

There are many factors that can influence student enrollment including, but not limited to, changes or additions in program offerings, student transfer policy changes, housing activity, school voucher programs, school closures, etc. It is important to keep a close eye on these trends as they are difficult to predict and they do have an impact on projected enrollment. *A more in-depth summary of these projections is offered later in this report and the full enrollment projections report is available in Appendix A.*

### **III. Educational Standards**

The master planning team met with District and School administration members together to understand ESD's existing district-wide educational programming goals, technology plan, and security infrastructure adequacy. The District's Strategic Plan, Technology Plan, and past Security analyses were reviewed through these discussions to identify current issues and potential desired updates. In addition, the District's adopted Class Size policy was used to calculate facility capacities.

#### **IV. Educational Adequacy Assessments**

Meetings were held with each school Principal to tour the facilities, document current building utilization and discuss educational adequacy. Specifically, the master planning team documented how well the facilities are supporting the mission of each school program; are there safety & security concerns on site; are core spaces adequately sized and configured to support learning; are the Specials, Cafeteria and outdoor spaces adequate, or are there any challenges to effective teaching/learning that are due to facility layout or infrastructure. As a result of these meetings, recommended actions to improve the educational environment were identified.

#### **V. Community Meetings**

Multiple community meetings were held to gather input from the greater Elizabeth community determine their wants, needs, and priorities in planning for the future. The planning team also shared their facility scorecards, enrollment projections, and garnered input on district priorities. Approximately 100+ participants attended these meetings. The meetings included an introduction from the Superintendent followed by the planning teams' presentation concluding with time for participants to answer a questionnaire, have group discussions and offer feedback. For those unable to attend these meetings, the District website hosted an online questionnaire for a month where an additional 189 participants submitted responses to this survey. *A summary of the results of these questionnaires is offered later in this report on and the full report is in Appendix B.*

#### **VI. Final Board Presentation**

The final report was presented to the Elizabeth Board of Education on May 21, 2018. The final presentation outlined the components of the physical building assessments, the calculated enrollment projections, and the educational adequacy assessments. The planning team outlined their recommendations, which were based on priority, future growth and available funding. Those recommendations are outlined on the following pages.

## **FACILITY RECOMMENDATIONS**

### **RUNNING CREEK ELEMENTARY**

#### **Existing Needs**

The current FCI, facility condition index is 73.5%. The site concrete paving and asphalt need to be replaced. There are many large cracks in the pavement and evident heaving and degradation of sidewalks and curb and gutter. The playground surfacing has reached the end of its life and should be repaired or replaced. The doors and hardware are functioning, however, they are not ADA compliant and should be replaced. The HVAC and plumbing systems are performing, however have exceeded their life expectancy and should be replaced in the near future. The electrical system has exceeded its life expectancy and should be replaced. The light fixtures have T-12 lamps which are inefficient and should be replaced.

#### **Recommended Improvements**

##### **Safety/Security:**

- Interior building remodel to relocate main office adjacent to the main entrance to provide a secure entrance vestibule that is monitored by staff.
- Upgrade security camera equipment, integrated across all district facilities, for improved monitoring capabilities and coverage.
- Increase PA system coverage on exterior of building.
- Reconfigure vehicle drop-off/pick-up driveway and parking to improve pedestrian/vehicle safety, and increase parking capacity.
- Renovate preschool and elementary playground surfacing, equipment and grass play field to provide safe outdoor play and learning spaces.
- Replace exterior doors with new safe/secure, code compliant doors and locks.

##### **Educational Programming:**

- Improve technology infrastructure to support increased interactive technology and future 1:1 device usage.
- An extensive interior building remodel could be considered to address the challenges of the small, triangular-shaped classrooms. Selective removal of some demising walls and creation of more flexible learning spaces could alleviate constraints and benefit educational programming.

## **FACILITY RECOMMENDATIONS -continued-**

### **SINGING HILLS ELEMENTARY**

#### **Existing Needs**

The current FCI, facility condition index is 47.8%. The site concrete paving and asphalt need to be replaced. There are many large cracks in the pavement and evident heaving and degradation of sidewalks and curb and gutter. The concrete slab on grade within the building is settling in many locations causing an uneven floor, and walls to either heave or settle. We recommend a structural analysis and repairs or replacement as necessary. Many windows need to be replaced. The operable portions of the windows do not operate properly so maintenance staff has mechanically fastened them shut. The majority of the flooring within the building has exceeded its life expectancy and should be replaced. HVAC controls are not functioning properly and need to be repaired or replaced.

#### **Recommended Improvements**

##### **Safety/Security:**

- Interior building remodel to relocate main office adjacent to the main entrance to provide a secure entrance vestibule that is monitored by staff.
- Upgrade security camera equipment, integrated across all district facilities, for improved monitoring capabilities and coverage.
- Replace door hardware between adjoining classrooms for improved security.
- Install cellphone booster for improved coverage.
- Renovate grass play field to provide safe outdoor play and learning field space.

##### **Educational Programming:**

- Add electrical receptacles in classrooms for enhanced instruction and educational technology.
- Improve technology infrastructure to support increased interactive technology and future 1:1 device usage.
- Addition/Remodel to increase the Cafeteria size for future increase in enrollment and improve acoustics and daylighting.

## **FACILITY RECOMMENDATIONS -continued-**

### **ELIZABETH MIDDLE SCHOOL**

#### **Existing Needs**

The current FCI, facility condition index is 69.7%. The site concrete paving and asphalt need to be replaced. There are many large cracks in the pavement and evident heaving and degradation of sidewalks and curb and gutter. The parking lot lighting is limited. Additional lighting is needed for safety and security. The exterior walls are not insulated. To increase energy efficiency, insulation should be added. The doors and hardware are functioning, however, they are not ADA compliant and should be replaced. The wood siding accents are deteriorating and need to be replaced. The HVAC and plumbing systems are performing, however they have exceeded their life expectancy and should be replaced in the near future. Many plumbing fixtures are not ADA compliant. The electrical system has exceeded its life expectancy and should be replaced. The intercom and clock system is past its life expectancy and should be replaced.

#### **Recommended Improvements**

##### **General:**

- Building replacement or extensive renovation should be considered in the +5 year timeframe, due to the educational adequacy concerns and condition deficiencies.
- Prioritize educational adequacy concerns that can be addressed in the short term until building replacement. Consider upgrading PA, security camera equipment, technology infrastructure and furniture.

## **FACILITY RECOMMENDATIONS -continued-**

### **FRONTIER HIGH SCHOOL**

#### **Existing Needs**

The current FCI, facility condition index is 69.3%. Without repairs, in ten years the FCI will be 100%. The site concrete paving and asphalt need to be replaced. There are many large cracks in the pavement and evident heaving and degradation of sidewalks and curb and gutter. The exterior structure is deteriorating. The exterior brick needs repair and complete tuck pointing. In the original portions of the building, there is a lot of cracks in the plaster and evidence of water infiltration. The wood trim on the addition needs to be replaced. The locksets and doors at the main entry are failing and need to be replaced. There is minimal electronic security installed. The exterior walls are not insulated. To increase energy efficiency, insulation should be added. The doors and hardware are not ADA compliant and should be replaced. Windows are single pane and in poor condition. They should be replaced. Furnishings and fixtures have exceeded their life expectancy and need to be replaced. The HVAC and plumbing systems are not performing well; they have exceeded their life expectancy and should be replaced. When plumbing or hydronic pipes leak, the maintenance staff have taken a "Bandaid" approach to keep the system operational. Many plumbing fixtures are not ADA compliant. To make these fixtures ADA-complaint, significant remodeling is required. The electrical system has exceeded its life expectancy and should be replaced.

#### **Recommended Improvements**

##### General:

- Move the FHS program out of the current facility due to educational adequacy concerns and condition deficiencies.
- Addition/Remodel at EHS campus to provide dedicated FHS program space for core programs and CTE. EHS campus location provides potential opportunities for some shared facility usage as well as operational efficiencies (food service, student support/Special Ed. services, transportation, etc).
- Prioritize educational adequacy concerns that can be addressed in the short term until relocation. Consider upgrading PA, security camera equipment and technology infrastructure.

## **FACILITY RECOMMENDATIONS -continued-**

### **ELIZABETH HIGH SCHOOL**

#### **Existing Needs**

The current FCI, facility condition index is 20.7%. The building is performing well. There are a few key areas that should be addressed in the near future. The site concrete paving has sections that are deteriorating and should be replaced. This appears to be caused by de-icing. There are cracks in the asphalt pavement that should be filled to extend the life of the paving. There are a few isolated areas where the exterior walls are separating from the floor structure. We recommend a structural engineer evaluate the issue and provide a recommendation for repair. Most windows are performing well, however, some have broken seals allowing condensation to develop between panes. These windows should be replaced.

#### **Recommended Improvements**

##### **Safety/Security:**

- Interior building remodel to provide a secure entrance vestibule that is monitored by staff.
- Upgrade security camera equipment, integrated across all district facilities, for improved monitoring capabilities and coverage.

##### **General:**

- Addition/Remodel for increased CTE programming, Athletics and Arts. Consider providing separate Cafeteria and Auditorium.

## **FACILITY RECOMMENDATIONS -continued-**

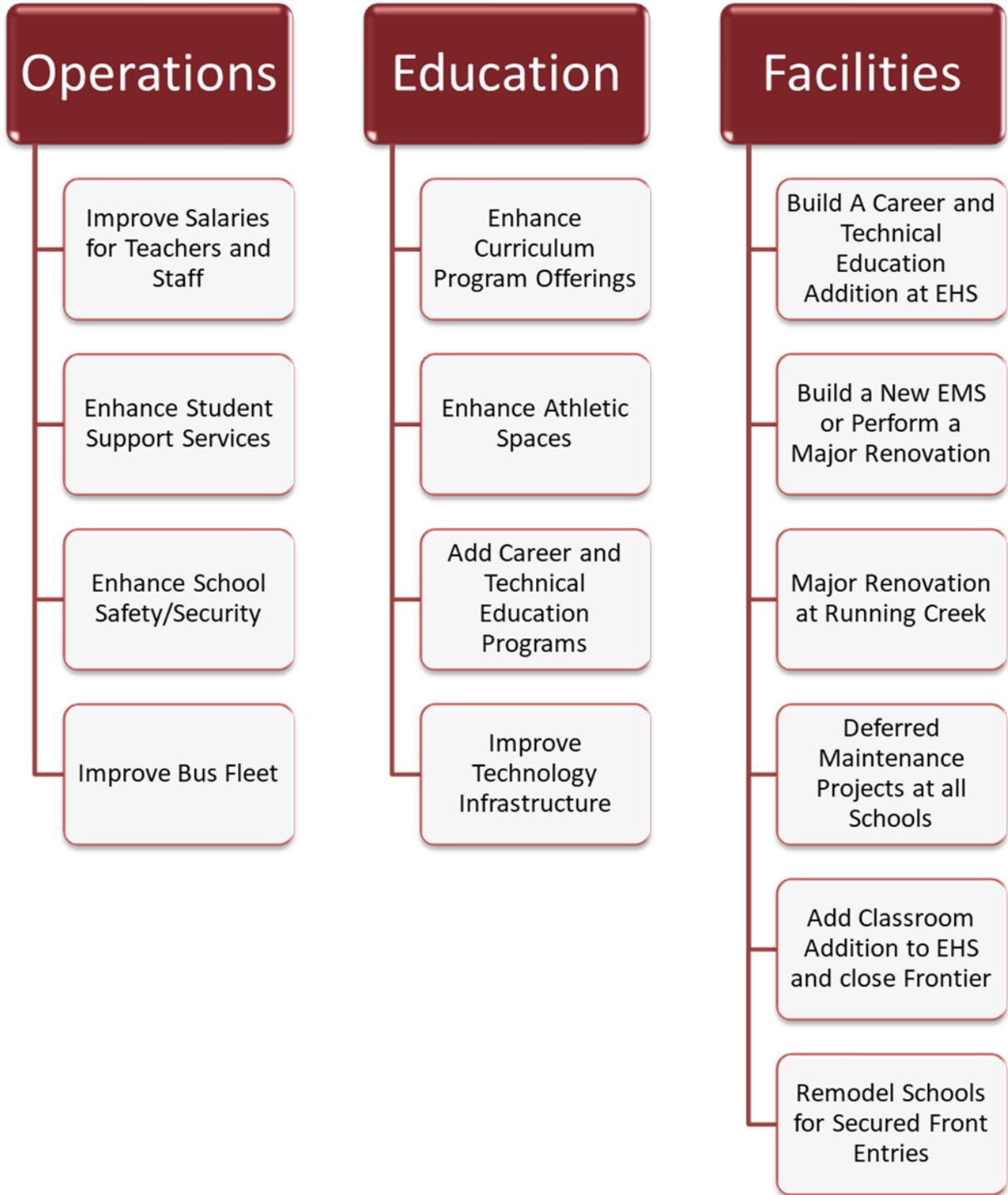
### **DISTRICTWIDE**

While not directly related to facility improvements, our planning team also investigated opportunities to improve the school district operationally. We surveyed school district administration, school district staff, and the greater Elizabeth school district community to identify areas where operations could be improved. Topics included: Teacher salaries, bus fleet, bus routes, before and after school programs, safety upgrades, current and enhanced program offerings, career and technical education development, technology enhancements, visual and performing arts enhancements, and athletic enhancements. Below is a list of the top priorities identified by the Elizabeth school district community:

- **Competitive salaries for teachers** – This was identified as a top priority by the Elizabeth school district community. The community has a desire to hire and retain quality teachers for their students.
- **Safety and security** – This priority is both improvements to the physical security at each school and improvements to the security measures at each school from an organization and personnel standpoint.
- **Enhanced program offerings:**
  - **Expanded and centralized Career and Technical Development (CTE) programs** – The community has a desire to expand their CTE offerings in the Elizabeth school district to offer a greater selection of programs for students looking for pathways beyond college. This includes both high-bay (construction trades, woodworking, automotive, etc.) and low-bay (computer programming, robotics, healthcare, etc.)
  - **Expanded athletic facilities and options**
  - **Expanded Science Technology Engineering Math (STEM) programs**
  - **Visual and performing arts** – This was the lowest priority of respondents, however it was noted the school district current has a robust visual and performing arts program and has made investments in recent years to enhance these.
- **Bus Fleet** – The buses in Elizabeth school district have reached the end of their useful life and need to be replaced. While they are not in disrepair, they have reached a point where most school districts begin cycling in newer buses with less mileage and less maintenance costs. During our community outreach there was discussion around improving the bus routes and part of the overall transportation discussion.

The Elizabeth school district should take these operational priorities into consideration as they plan into the future. The school district may be able to address some of these priorities through existing general fund allocations however to fully implement all these priorities the school district will more than likely need tax payer support through the authorization of a mill levy increase.

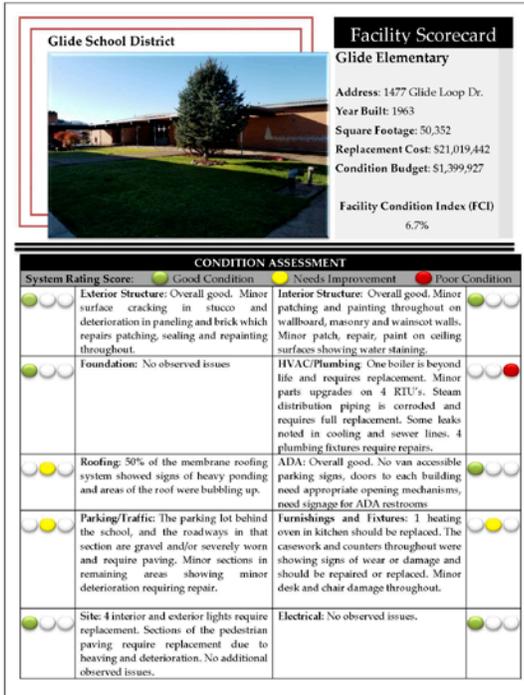
**FACILITY RECOMMENDATIONS SUMMARY**



## ASSESSMENT SUMMARY & SCORECARDS

As a result of the facility condition assessments and educational adequacy assessments, the following scorecards were generated to further explain the observations and recommended action items. It is important to note that these are planning figures based on life cycle cost models and actual bids for construction will be different. The assessment identifies needs and assigns a cost figure based on the assessed condition of that need.

### Scorecard example on how to read:



**Facility Scorecard**  
Glide Elementary

Address: 1477 Glide Loop Dr.  
Year Built: 1963  
Square Footage: 50,352  
Replacement Cost: \$21,019,442  
Condition Budget: \$1,399,927  
Facility Condition Index (FCI): 6.7%

**CONDITION ASSESSMENT**

System Rating Score:	Good Condition	Needs Improvement	Poor Condition
Exterior Structure: Overall good. Minor surface cracking in stucco and deterioration in paneling and brick which repairs patching, sealing and repainting throughout.	●●●●●		
Foundation: No observed issues	●●●●●		
Roofing: 50% of the membrane roofing system showed signs of heavy ponding and areas of the roof were bubbling up.	●●●●●	●	
Parking/Traffic: The parking lot behind the school, and the roadways in that section are gravel and/or severely worn and require paving. Minor sections in remaining areas showing minor deterioration requiring repair.	●●●●●	●	
Site: 4 interior and exterior lights require replacement. Sections of the pedestrian paving require replacement due to heaving and deterioration. No additional observed issues.	●●●●●		
Interior Structure: Overall good. Minor patching and painting throughout on wallboard, masonry and wainscot walls. Minor patch, repair, paint on ceiling surfaces showing water staining.	●●●●●		
HVAC/Plumbing: One boiler is beyond life and requires replacement. Minor parts upgrades on 4 RIU's. Steam distribution piping is corroded and requires full replacement. Some leaks noted in cooling and sewer lines. 4 plumbing fixtures require repairs.	●●●●●	●	●
ADA: Overall good. No van accessible parking signs, doors to each building need appropriate opening mechanisms, need signage for ADA restrooms	●●●●●		
Turnishings and Fixtures: 1 heating oven in kitchen should be replaced. The casework and counters throughout were showing signs of wear or damage and should be repaired or replaced. Minor desk and chair damage throughout.	●●●●●	●	●
Electrical: No observed issues.	●●●●●		

General introduction section identifying school

Replacement Cost and Condition Budget

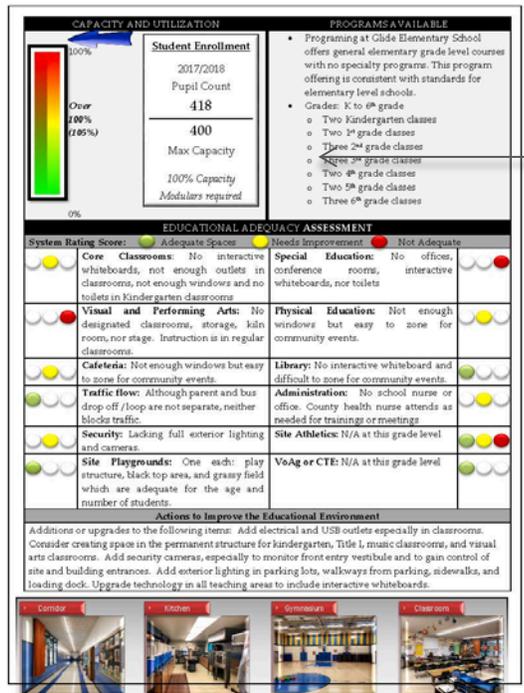
Major building systems are assessed and given a condition rating from JHL based on current condition

Priority projects based on urgency and deficiency

Other projects identified from assessment

List of grade levels and programs offered at school

Current capacity at the school



**EDUCATIONAL ADEQUACY ASSESSMENT**

System Rating Score: Adequate Spaces, Needs Improvement, Not Adequate

Core Classrooms: No interactive whiteboards, not enough outlets in classrooms, not enough windows and no toilets in Kindergarten classrooms.	Special Education: No offices, conference rooms, interactive whiteboards, nor toilets	●●●●●	●●●●●
Visual and Performing Arts: No designated classrooms, storage, kiln room, nor stage. Instruction is in regular classrooms.	Physical Education: Not enough windows but easy to zone for community events.	●●●●●	●●●●●
Cafeteria: Not enough windows but easy to zone for community events.	Library: No interactive whiteboard and difficult to zone for community events.	●●●●●	●●●●●
Traffic Flow: Although parent and bus drop-off loop are not separate, neither block traffic.	Administration: No school nurse or office. County health nurse attends as needed for trainings or meetings.	●●●●●	●●●●●
Security: Lacking full exterior lighting and cameras.	Site Athletics: N/A at this grade level	●●●●●	●●●●●
Site Playgrounds: One each: play structure, black top area, and grassy field which are adequate for the age and number of students.	VoAg or CTE: N/A at this grade level	●●●●●	●●●●●

**Actions to Improve the Educational Environment**

Additions or upgrades to the following items: Add electrical and USB outlets especially in classrooms. Consider creating space in the permanent structure for kindergarten, Title I music classrooms, and visual arts classrooms. Add security cameras, especially to monitor front entry vestibule and to gain control of site and building entrances. Add exterior lighting in parking lots, walkways from parking, sidewalks, and loading dock. Upgrade technology in all teaching areas to include interactive whiteboards.

Corridor, Kitchen, Gymnasium, Classroom

Major educational spaces in a school are given an adequacy score based on current education needs

Actions to improve the educational environment to maximize programs

Photos of common school spaces

See raw data sheets showing all facility findings in Appendices D & E.

**Elizabeth School District**



**Facility Scorecard**

**Running Creek Elementary**

**Address:** 900 S Elbert St

**Year Built:** 1988

**Square Footage:** 60,000

**Replacement Cost:**

2018 \$ 16,009,424

2028 \$ 23,698,750

**Condition Budget:**

2018 \$ 11,762,864

2028 \$ 17,412,567

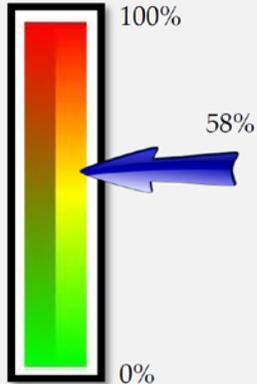
**CONDITION ASSESSMENT**

System Rating Score: Good Condition Needs Improvement Poor Condition

	<b>Exterior Structure:</b> No observed issues.	<b>Interior Structure:</b> No apparent issues, but the interior walls and wall finishes have exceeded their life expectancy.	
	<b>Foundation:</b> No observed issues.	<b>HVAC/Plumbing:</b> Systems have exceeded their life-expectancy; however, they are functioning. Control system upgrades are needed.	
	<b>Roofing:</b> No observed issues. Replaced within last 10 years.	<b>ADA:</b> Restrooms are not ADA compliant; Door hardware and clearances are not ADA compliant.	
	<b>Parking/Traffic:</b> Repair and fill cracks in asphalt.	<b>Furnishings and Fixtures:</b> No observed issues.	
	<b>Site:</b> In many areas of concrete sidewalks and curb and gutter need to be replaced.	<b>Electrical:</b> System is functional, yet it is at the end of its life expectancy. Light fixtures have T-12 lamps and ballasts which should be upgraded to a more efficient type.	
	<b>Security:</b> Existing system is functional and operating as intended.	<b>Doors:</b> Functioning, but not ADA compliant.	
	<b>Windows:</b> Most windows are in good condition and have insulated	<b>Flooring:</b> No observed issues.	

	glass, but have exceeded their life expectancy.		
Priority Projects			
Concrete paving and curb and gutter repair/replacement. ADA upgrades. HVAC controls need to be upgraded.			
Additional Projects, if Funds Become Available			
HVAC, Plumbing, and Electrical system replacement.			

**CAPACITY AND UTILIZATION**



**Student Enrollment**

2017-2018 K-5  
Pupil Count: 314

K-5 Potential  
Capacity: 541

58% Capacity

**PROGRAMS AVAILABLE**

Programing at Running Creek offers general elementary grade level courses.

This program offering is consistent with standards for elementary level schools.

2017-18 Grades:

- (3) Pre-K classrooms
- (2) each K - 2nd Grade
- (3) each 3rd - 5th Grade

**EDUCATIONAL ADEQUACY ASSESSMENT**

System Rating Score: ● Adequate Spaces ● Needs Improvement ● Not Adequate

	<p><b>Core Classrooms:</b> Triangular shape of classrooms is functional challenge. Minimal natural light and casework storage.</p>	<p><b>Special Education:</b> All needs are currently being met.</p>	
	<p><b>Visual and Performing Arts:</b> Most needs are met. A/V system in Gymnasium could be upgraded for better functionality.</p>	<p><b>Physical Education:</b> Most needs are currently being met. A playfield would benefit physical education.</p>	
	<p><b>Cafeteria:</b> All needs are currently being met.</p>	<p><b>Library:</b> Greater access to natural light and views would benefit adequacy and function.</p>	
	<p><b>Traffic flow:</b> Drive/parking area is very congested at pick-up/drop-off. Inadequate parking capacity.</p>	<p><b>Administration:</b> Most needs are being met. There is no conference space currently and this would benefit functions.</p>	
	<p><b>Security:</b> Front office monitors visitors via video-phone as office is not adjacent to entry. All other needs being met.</p>	<p><b>Site Athletics:</b> N/A at this grade level.</p>	
	<p><b>Site Playgrounds:</b> Playground surface and equipment is older and in need of upgrade. Playfield is not safe/not used due to uneven ground surface and plantings.</p>	<p><b>VoAg or CTE:</b> N/A at this grade level.</p>	

Actions to Improve the Educational Environment



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Addressing classroom configuration would be ideal but would require a full remodel/addition. Site reconfiguration to provide improved pedestrian/vehicle separation, traffic routing and parking capacity would benefit safety and operations. Relocation of main office could be considered. Renovation of playground and field would provide a safer outdoor space for play and learning.



**Elizabeth School District**



**Facility Scorecard**

**Singing Hills Elementary**

**Address:** 41012 Madrid Drive

**Year Built:** 1995

**Square Footage:** 53,000

**Replacement Cost:**

2018 \$ 14,541,420

2028 \$ 21,525,664

**Condition Budget:**

2018 \$ 6,950,218

2028 \$ 15,974,072

**CONDITION ASSESSMENT**

System Rating Score:  Good Condition  Needs Improvement  Poor Condition			
	<b>Exterior Structure:</b> Good condition; General maintenance of caulking and sealers is needed.	<b>Interior Structure:</b> Appear in good shape and have been well maintained.	
	<b>Foundation:</b> The slab is settling in many locations.	<b>HVAC/Plumbing:</b> Systems have or soon will exceeded their life-expectancy; however, they are functioning. Control system upgrades are needed.	
	<b>Roofing:</b> All roofing has been replaced in last 2 years.	<b>ADA:</b> No observed issues.	
	<b>Parking/Traffic:</b> Repair and fill cracks in asphalt is needed.	<b>Furnishings and Fixtures:</b> No observed issues.	
	<b>Site:</b> In many areas of concrete sidewalks and curb and gutter need to be replaced.	<b>Electrical:</b> No observed issues.	
	<b>Security:</b> Existing system is functional and operating as intended.	<b>Doors:</b> No observed issues.	
	<b>Windows:</b> Many operable windows do not function.	<b>Flooring:</b> Some flooring has been replaced, but most of the flooring is past its life expectancy.	
<b>Priority Projects</b>			

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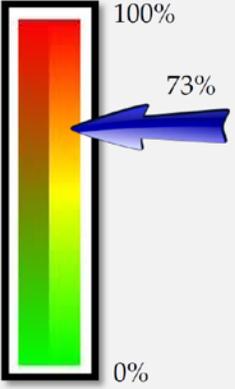
Repair the settling concrete slabs. Asphalt and concrete paving and curb and gutter repair/replacement. HVAC controls need to be upgraded.

Additional Projects, if Funds Become Available

Window replacement; HVAC, Plumbing, and Electrical system replacement.



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CAPACITY AND UTILIZATION		PROGRAMS AVAILABLE
 <p>100% 73% 0%</p>	<p><b>Student Enrollment</b></p> <p>2017-2018 K-5 Pupil Count: 392</p> <p>K-5 Potential Capacity: 540</p> <p>73% Capacity</p>	<p>Singing Hills offers general elementary grade level courses and STEM at all grade levels.</p> <p>This program offering is consistent with standards for elementary level schools.</p> <p>2017-18 Grades: (3) Pre-K classrooms (3) Kindergarten (2) 1st Grade (3) each 2nd - 5th Grade</p>

EDUCATIONAL ADEQUACY ASSESSMENT			
System Rating Score: <span style="color: green;">●</span> Adequate Spaces <span style="color: yellow;">●</span> Needs Improvement <span style="color: red;">●</span> Not Adequate			
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Core Classrooms:</b> Could use additional outlets; 4th & 5th classrooms are small for age/size of students.	<b>Special Education:</b> All needs are currently being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Visual and Performing Arts:</b> Music storage and acoustic separation could be improved.	<b>Physical Education:</b> All needs are currently being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Cafeteria:</b> Small for adequate use and flow; 6 lunch periods; space is loud and there is minimal access to natural light.	<b>Library:</b> All needs are currently being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Traffic flow:</b> Drives and lot are very congested at pick-up/drop-off. Bus parking is limited.	<b>Administration:</b> All needs are currently being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Security:</b> Front office monitors visitors via video-phone as office is not adjacent to entry. Some classroom door hardware is need of upgrade.	<b>Site Athletics:</b> N/A at this grade level.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Site Playgrounds:</b> Playgrounds are adequate. Open field space is limited.	<b>VoAg or CTE:</b> N/A at this grade level.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>

Actions to Improve the Educational Environment

Adding electrical outlets in classrooms could enhance instruction. Cafeteria improvements to size, natural light and acoustics would benefit function and adequacy, as enrollment increases. Door hardware at doors between classrooms could be upgraded to improve functioning for lockdowns. Relocation of main office could be considered. Parking/drive expansion or reconfiguration could improve site safety. Improvements to grass playfields could benefit the learning environment.



**Elizabeth School District**



**Facility Scorecard**

**Elizabeth Middle School**

**Address:** 34427 CO Road 13  
**Year Built:** 1978 - Add's '84, '88  
**Square Footage:** 67,000  
**Replacement Cost:**  
 2018 \$ 20,578,010  
 2028 \$ 30,461,628  
**Condition Budget:**  
 2018 \$ 14,348,753  
 2028 \$ 21,240,459

**CONDITION ASSESSMENT**

System Rating Score: <span style="color: green;">●</span> Good Condition <span style="color: yellow;">●</span> Needs Improvement <span style="color: red;">●</span> Poor Condition			
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Exterior Structure:</b> The exterior structure appears to be in good condition. No evident signs of structure failure; Lacks wall insulation in exterior walls; Wood siding accents are deteriorating.	<b>Interior Structure:</b> Interior Walls are approaching end of life expectancy.	<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Foundation:</b> No observed issues.	<b>HVAC/Plumbing:</b> Majority of systems are original; Most have exceeded life expectancy; Functioning, but in need of replacement; Plumbing Fixtures are not ADA-compliant.	<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Roofing:</b> Replaced in the last 10 years, no observed issues.	<b>ADA:</b> Doors and restrooms are not ADA compliant.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>
<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>	<b>Parking/Traffic:</b> Surface is deteriorated requiring repaving.	<b>Furnishings and Fixtures:</b> All at the end of their useful life.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>
<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>	<b>Site:</b> Paving is deteriorated and needs to be replaced. Additional site lighting is needed for safety and security.	<b>Electrical:</b> Original clock/intercom system is past life expectancy; EM lighting needs to be replaced; May not have functional battery back-up.	<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Security:</b> Systems functioning however the layout of main entry	<b>Doors:</b> Many non-ADA-compliant door knobs throughout.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>

	lacks appropriate vision and control of visitors.		
	<b>Windows:</b> Windows are single pane glazing, and water infiltration is evident; few windows in facility with minimal natural light.	<b>Flooring:</b> At the end of its useful life and requires replacement.	

**Priority Projects**

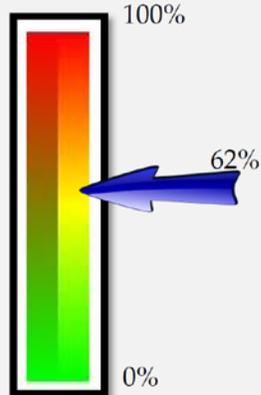
Site paving replacement; window replacement; EM Lighting system replacement are top priorities.

**Additional Projects, if Funds Become Available**

Replacement of HVAC system; Security upgrades; ADA upgrades, flooring



**CAPACITY AND UTILIZATION**



**Student Enrollment**

2017-2018 6-8  
 Pupil Count: 430  
  
 K-5 Potential  
 Capacity: 696  
  
 62% Capacity

**PROGRAMS AVAILABLE**

Programing at Elizabeth Middle School offers general middle school grade level courses with electives in:

- Drama
- Fine Arts
- STEAM
- Technology
- Music

**EDUCATIONAL ADEQUACY ASSESSMENT**

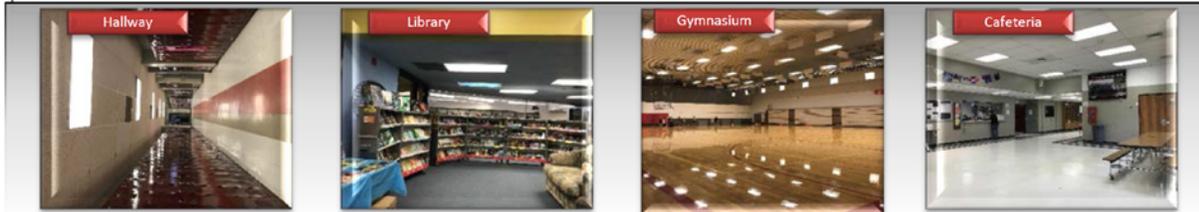
System Rating Score: ● Adequate Spaces ● Needs Improvement ● Not Adequate

	<p><b>Core Classrooms:</b> Most classrooms are small for adequate functioning and have little or no exterior windows. More elec outlets needed.</p>	<p><b>Special Education:</b> Needs are being met.</p>	
	<p><b>Visual and Performing Arts:</b> Needs are being met.</p>	<p><b>Physical Education:</b> Use of gym and locker room showers are sometimes impacted by condition issues (roof leaks and water service). Location of gym is not ideal for public access. Capacity of gym for large events is limited.</p>	
	<p><b>Cafeteria:</b> Needs are being met.</p>	<p><b>Library:</b> Interior space w/o natural light or views. No PA access to space. More technology would benefit students.</p>	
	<p><b>Traffic flow:</b> Vehicle congestion, low light levels, pedestrian safety concerns and inadequate parking for events.</p>	<p><b>Administration:</b> Location at center of building limits supervision and access to natural light/views. Otherwise needs are being met.</p>	
	<p><b>Security:</b> Concerns noted regarding visitor access/main office location, quantity of cameras could be improved; no ability to limit access to portions of building during community events; PA system improvements needed.</p>	<p><b>Site Athletics:</b> Student access to fields after school crosses traffic areas. Facilities are otherwise adequate.</p>	

	<p><b>Site Playgrounds:</b> Most needs are being met; play area for recess could be improved with more equipment and outdoor furnishing.</p>	<p><b>VoAg or CTE:</b> N/A at this grade level.</p>	
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**Actions to Improve the Educational Environment**

Security improvements for visitor access and monitoring would be a benefit. Classroom improvements to size and natural light throughout school would benefit the learning environment. Natural light, ventilation and temperature control issues throughout building would improve the adequacy of building. Parking and driveway layout, lighting, parking capacity could be improved for safety. The outdoor play/recess area for students is adequate, but could be improved.



**Elizabeth School District**



**Facility Scorecard**

**Frontier High School**

**Address:** 589 S. Banner St.

**Year Built:** 1920

**Square Footage:** 51,000

**Replacement Cost:**

2018 \$ 16,585,929

2028 \$ 24,552,151

**Condition Budget:**

2018 \$ 11,493,592

2028 \$ 24,102,172

**CONDITION ASSESSMENT**

System Rating Score: <span style="color: green;">●</span> Good Condition <span style="color: yellow;">●</span> Needs Improvement <span style="color: red;">●</span> Poor Condition			
● ● ●	<b>Exterior Structure:</b> Masonry Repairs/Tuckpointing is needed; Wood Fascia is deteriorating; Evidence of water infiltration.	<b>Interior Structure:</b> Past life expectancy; Many cracks in the existing plaster, Interior masonry walls appear sound.	● ● ●
● ● ●	<b>Foundation:</b> Appears to be in good condition for age; nearing end of life expectancy.	<b>HVAC/Plumbing:</b> Past Life expectancy; Majority of systems are original and have been fixed when broken with a "bandaid" approach. Complete system replacement is needed.	● ● ●
● ● ●	<b>Roofing:</b> Replaced in 2000; functioning well.	<b>ADA:</b> Restrooms and many spaces do not meet ADA requirements; Significant remodel work would be required to bring building up to ADA standards.	● ● ●
● ● ●	<b>Parking/Traffic:</b> At the end of its useful life, need to replace.	<b>Furnishings and Fixtures:</b> Most fixtures and furnishings are past life expectancy	● ● ●
● ● ●	<b>Site:</b> At the end of its useful life, sidewalks, stairs and paving are uneven and in poor condition.	<b>Electrical:</b> Past life expectancy; Entire system needs to be upgraded.	● ● ●
● ● ●	<b>Security:</b> Minimal security measure installed, lockset are failing.	<b>Doors:</b> Past life expectancy; hardware is not ADA compliant;	● ● ●

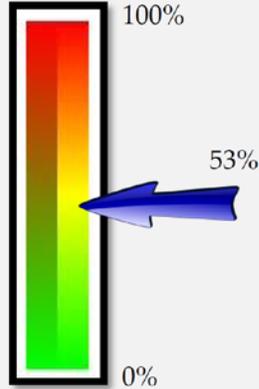
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		Failing doors and hardware have led to air and water infiltration and security issues.	
	<b>Windows:</b> At the end of their useful life; leaking air and moisture.	<b>Flooring:</b> Past life expectancy.	
<b>Priority Projects</b>			
Masonry Repairs/Tuckpointing is needed; Wood Fascia is deteriorating; Replacement of windows and doors; Replacement of HVAC System; Site paving repairs.			
<b>Additional Projects, if Funds Become Available</b>			
ADA upgrades; site lighting; electrical system replacement.			



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**CAPACITY AND UTILIZATION**



**Student Enrollment**  
 2017-2018  
 Pupil Count: 57  
 Potential Capacity: 108  
 53% Capacity

**PROGRAMS AVAILABLE**

Frontier High School offers a broad range of traditional and life skills courses in an alternative high school setting. The average class size at FHS is 13 students per class. The school shares the building with several other non-District programs. Potential capacity of 108 may be possible, but would depend on programming.

**EDUCATIONAL ADEQUACY ASSESSMENT**

System Rating Score: ● Adequate Spaces ● Needs Improvement ● Not Adequate

● ● ●	<b>Core Classrooms:</b> Needs are being met.	<b>Special Education:</b> N/A at this school.	● ● ●
● ● ●	<b>Visual and Performing Arts:</b> Current spaces used are not designed for arts curriculum, and are not adequate for storage, acoustics, access.	<b>Physical Education:</b> Needs are being met.	● ● ●
● ● ●	<b>Cafeteria:</b> Adequate for current enrollment. Location is at main entrance without any visitor/public access control.	<b>Library:</b> N/A. There is no dedicated library at this school.	● ● ●
● ● ●	<b>Traffic flow:</b> Adequate, needs are being met.	<b>Administration:</b> Needs are being met. For security, it would be ideal for school visitors to enter the office before gaining access to school.	● ● ●
● ● ●	<b>Security:</b> Access to school is open to the public; no access control. Age of systems causes periodic maintenance issues.	<b>Site Athletics:</b> N/A at this grade level.	● ● ●
● ● ●	<b>Site Playgrounds:</b> There is no outdoor learning or field space. Programming adapts to this, but it would be ideal to have outdoor spaces available.	<b>VoAg or CTE:</b> Foods classroom equipment is out of date and in need to upgrade. The school lacks spaces for other CTE programming, which is desired by the school and students.	● ● ●

Actions to Improve the Educational Environment

Educational adequacy is significantly impacted by the age and condition of the building, with regard to safety, access and support of programming. The school would benefit from an improved layout and educational spaces designed for their use.



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**Elizabeth School District**



**Facility Scorecard**

**Elizabeth High School**

**Address:** 34500 Co Rd 13

**Year Built:** 2000

**Square Footage:** 139,000

**Replacement Cost:**

2018 \$ 43,135,215

2028 \$ 66,203,287

**Condition Budget:**

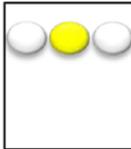
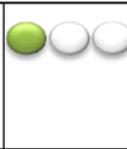
2018 \$ 8,916,311

2028 \$ 23,464,540

**CONDITION ASSESSMENT**

System Rating Score: <span style="color: green;">●</span> Good Condition <span style="color: yellow;">●</span> Needs Improvement <span style="color: red;">●</span> Poor Condition			
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Exterior Structure:</b> No observed issues aside from minor caulking and sealer.	<b>Interior Structure:</b> There are gaps between the floor structure and the exterior walls in a few locations indicating there is post-construction movement.	<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Foundation:</b> No observed issues, except additional investigation is required where exterior walls are pulling away from the concrete slab.	<b>HVAC/Plumbing:</b> Plumbing fixtures and terminal boxes are approaching their life expectancy, but they are currently performing without issues. Control system upgrades are needed.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Roofing:</b> All roofing has been replaced in last 6 years.	<b>ADA:</b> No observed issues.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Parking/Traffic:</b> Surface is deteriorating requiring repair and fill cracks in asphalt.	<b>Furnishings and Fixtures:</b> No observed issues.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Site:</b> Many areas of concrete sidewalks need to be replaced. It appears the snow and ice removal practices have greatly damaged the concrete.	<b>Electrical:</b> No observed issues.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Security:</b> Existing system is functional and operating as intended.	<b>Doors:</b> No observed issues.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>

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	<p><b>Windows:</b> While most windows are in good condition. Some have condensation build-up indicating the seals have been compromised.</p>	<p><b>Flooring:</b> No observed issues.</p>	
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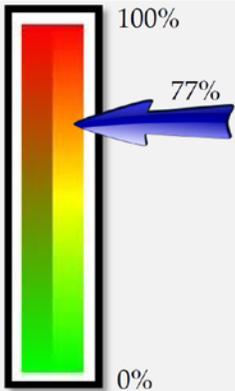
**Priority Projects**

Exterior masonry and storefront caulking. Apply sealers to the exterior CMU. Stair tread bull nose replacement. These general building maintenance items will greatly help extend the life of the building. HVAC controls need to be upgraded.

**Additional Projects, if Funds Become Available**

Many areas of site paving are deteriorating. Review snow/ice removal practices. Many areas are in need of replacement.

**CAPACITY AND UTILIZATION**



**Student Enrollment**

2017-2018  
Pupil Count: 700

Potential Capacity:  
Count: 912

77% Capacity

**PROGRAMS AVAILABLE**

Elizabeth High School offers courses in Math, Language Arts, Social Studies and Science; Art, Business, Family/Consumer Science, Music, PE, Technology, Theater and World Languages.

**EDUCATIONAL ADEQUACY ASSESSMENT**

System Rating Score: ● Adequate Spaces ● Needs Improvement ● Not Adequate

<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Core Classrooms:</b> Needs are being met.	<b>Special Education:</b> Needs are being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Visual and Performing Arts:</b> Needs are being met. Drama program needs for space are increasing as popularity in program grows.	<b>Physical Education:</b> There is a main gym and aux. gym, however they are fully utilized and more space is needed for desired programs. No space for wrestling mat storage, no space for inclement weather practice. Weight room is fully utilized and could benefit from more space.	<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Cafeteria:</b> Combined Cafeteria/Auditorium is challenging to schedule and maintain/operate due to set-up/take down for different activities. Tiered floor impedes flexible use.	<b>Library:</b> Needs are being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Traffic flow:</b> Drives and lot can be congested at pick-up/drop-off.	<b>Administration:</b> Needs are being met.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: white;">●</span> <span style="color: yellow;">●</span> <span style="color: white;">●</span>	<b>Security:</b> Office does not have direct visual or physical control of visitor access; Main entry doors are unlocked throughout the day. Camera coverage could be improved in some locations.	<b>Site Athletics:</b> Needs are being met. There is no dedicated space for band practice.	<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>
<span style="color: green;">●</span> <span style="color: white;">●</span> <span style="color: white;">●</span>	<b>Site Playgrounds:</b> Needs are being met.	<b>VoAg or CTE:</b> No space to support CTE industrial technology or trades.	<span style="color: white;">●</span> <span style="color: white;">●</span> <span style="color: red;">●</span>

Actions to Improve the Educational Environment

Space to support construction, welding, CAD, other CTE options are desired to address student needs and interests. A separate auditorium and cafeteria would improve programming and operational efficiency. Dedicated space for wrestling and mat storage would improve gym space issues. Increased video monitoring around the facility, and remodel of office area to control visitor access at main entry could improve security.



## ENROLLMENT PROJECTIONS

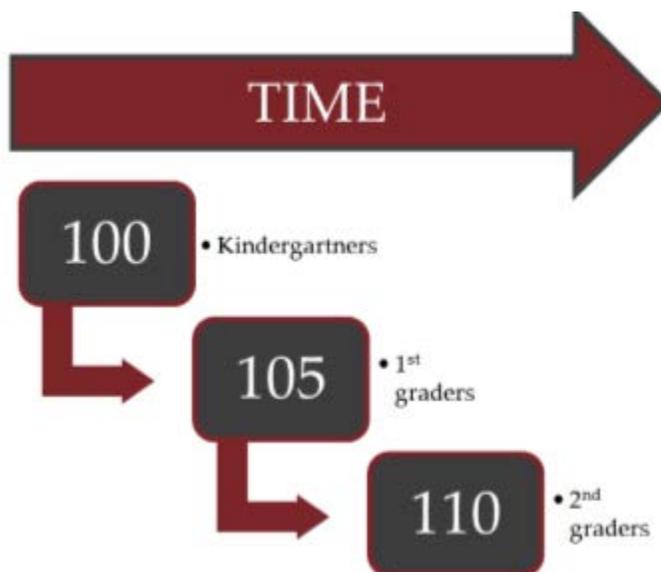
### Cohort Survival Method

A cohort is a group of persons [in this case, students]. The cohort survival enrollment projection methodology uses historic live birth data and historic student enrollment to “age” a known population or cohort throughout the school grades. For instance, a cohort begins when a group of kindergarteners enrolls in grade K and moves to first grade the following year, second grade the next year, and so on.

A “survival ratio” is developed to track how this group of students increased or decreased in number as they moved through the grade levels. By developing survival ratios for each grade transition [i.e. 2nd to 3rd grade] over a ten year period of time, patterns emerge and can be folded into projections by using the survival ratio as a multiplier.

For example, if student enrollment has consistently increased from the 8th to the 9th grade over the past ten years, the survival ratio would be greater than 100% and could be multiplied by the current 8th grade to develop a projection for next year’s 9th grade. This methodology can be carried through to develop ten years of projection figures. Because there is not a grade cohort to follow for students coming into kindergarten, live birth counts are used to develop a survival ratio. Babies born five years previous to the kindergarten class are compared in number, and a ratio can be developed to project future kindergarten enrollments.

The cohort survival method is useful in areas where population is stable [relatively flat, growing steadily, or declining steadily], and where there have been no significant fluctuations in enrollment, births, and housing patterns from year to year.



## ELIZABETH SCHOOL DISTRICT HISTORICAL ENROLLMENT

As indicated in the table below, over the past fifteen years, PK-12 student enrollment in the Elizabeth School District has decreased by 537 students, or approximately 21 percent.

Historical Enrollment - by School

School	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	Trend
Elizabeth High	824	809	848	866	835	812	786	776	721	778	764	717	701	693	676	
Frontier High	52	51	58	60	44	39	59	59	65	61	63	57	54	57	55	
Elizabeth Middle	636	629	599	586	561	514	516	504	496	496	529	494	437	434	430	
Running Creek Elementary	510	516	490	495	496	461	459	386	361	352	341	343	332	334	312	
Singing Hills Elementary	477	442	448	442	460	482	463	441	446	424	403	395	394	398	392	
Running Creek Preschool	24	33	80	92	72	57	82	77	82	83	68	61	66	72	63	
Singing Hills Preschool	20	11	20	66	67	65	68	71	51	60	49	55	63	64	78	
<b>Total</b>	<b>2,543</b>	<b>2,491</b>	<b>2,543</b>	<b>2,607</b>	<b>2,535</b>	<b>2,430</b>	<b>2,433</b>	<b>2,314</b>	<b>2,222</b>	<b>2,254</b>	<b>2,217</b>	<b>2,122</b>	<b>2,047</b>	<b>2,052</b>	<b>2,006</b>	

Source: Elizabeth School District

Historical Enrollment - District-wide

Grade	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
PK	44	44	100	158	139	122	150	148	133	143	117	116	129	136	141
K	144	149	102	160	146	133	142	113	117	125	124	104	100	93	106
1	129	150	155	123	169	149	128	128	108	115	116	125	120	99	94
2	160	141	162	163	137	170	150	122	128	115	113	124	131	127	101
3	182	169	150	174	176	137	172	147	130	139	121	118	126	142	137
4	166	186	180	141	174	184	142	172	153	127	140	121	126	133	139
5	206	163	189	176	154	170	188	145	171	155	130	146	123	138	127
6	211	211	175	186	179	155	169	192	140	165	173	124	147	136	132
7	214	199	211	185	184	183	149	162	195	142	189	176	129	157	139
8	211	219	213	215	198	176	198	150	161	189	167	194	161	141	159
9	275	239	267	244	242	207	203	213	171	199	214	178	217	188	163
10	210	240	221	247	235	227	196	207	224	186	203	209	167	218	194
11	196	195	224	229	208	218	236	190	204	238	172	189	190	161	208
12	195	186	194	206	194	199	210	225	187	216	238	198	181	183	166
<b>Grand Total</b>	<b>2,543</b>	<b>2,491</b>	<b>2,543</b>	<b>2,607</b>	<b>2,535</b>	<b>2,430</b>	<b>2,433</b>	<b>2,314</b>	<b>2,222</b>	<b>2,254</b>	<b>2,217</b>	<b>2,122</b>	<b>2,047</b>	<b>2,052</b>	<b>2,006</b>

Source: Elizabeth School District

Historical Enrollment - District-wide

Grade	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
PK	44	44	100	158	139	122	150	148	133	143	117	116	129	136	141
K - 5	987	958	938	937	956	943	922	827	807	776	744	738	726	732	704
6 - 8	636	629	599	586	561	514	516	504	496	496	529	494	437	434	430
9 - 12	876	860	906	926	879	851	845	835	786	839	827	774	755	750	731
<b>Grand Total</b>	<b>2,543</b>	<b>2,491</b>	<b>2,543</b>	<b>2,607</b>	<b>2,535</b>	<b>2,430</b>	<b>2,433</b>	<b>2,314</b>	<b>2,222</b>	<b>2,254</b>	<b>2,217</b>	<b>2,122</b>	<b>2,047</b>	<b>2,052</b>	<b>2,006</b>

School	Trend
Elizabeth High	
Frontier High	
Elizabeth Middle	
Running Creek Elementary	
Singing Hills Elementary	
Running Creek Preschool	
Singing Hills Preschool	
<b>Total</b>	

## LIVE BIRTH DATA

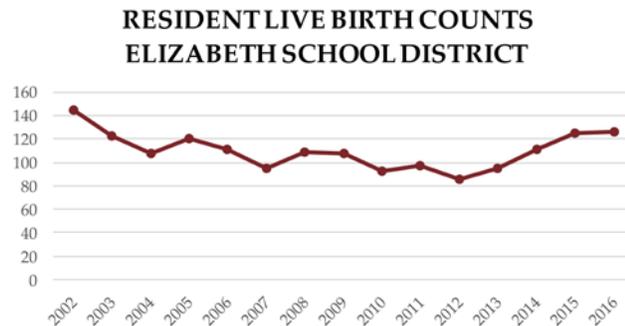
Utilization of live birth data is recommended when projecting future kindergarten enrollments. This data provides a helpful overall trend. Large bubbles in birth counts, either up or down, can also be planned for or anticipated by the District.

In addition, the live birth counts are used in determining a birth-to-kindergarten and birth-to-first grade survival ratio. This ratio identifies the percentage of children born in a representative area who attend kindergarten and first grade in the District five and six years later. The survival ratios for birth-to-kindergarten, birth-to-first grade, as well as grades 1-12 can be found on page 19 of this report. Data is arranged by the residence of the mother. For example, if a mother lives in Elizabeth but delivers her baby in Denver, the birth is counted in Elizabeth. Live birth counts are different from live birth rates. The live birth count is simply the actual number of live births. A birth rate is the number of births per 1,000 women in a specified population group.

The table and graph includes the resident live birth counts for the Elizabeth School District population group.

### RESIDENT LIVE BIRTH COUNTS ELIZABETH SCHOOL DISTRICT

Year	# of live births
2002	144
2003	123
2004	108
2005	120
2006	111
2007	95
2008	109
2009	107
2010	107
2011	97
2012	86
2013	95
2014	111
2015	125
2016	126



*Source: Vital Statistics Program, Colorado Department of Public Health and Environment.*

## HOUSING DATA

Housing development and building permits are tracked to determine their effect on student enrollment. The table and chart below illustrates the number of single-family building permits issued in Elizabeth and Elbert County since 2000.

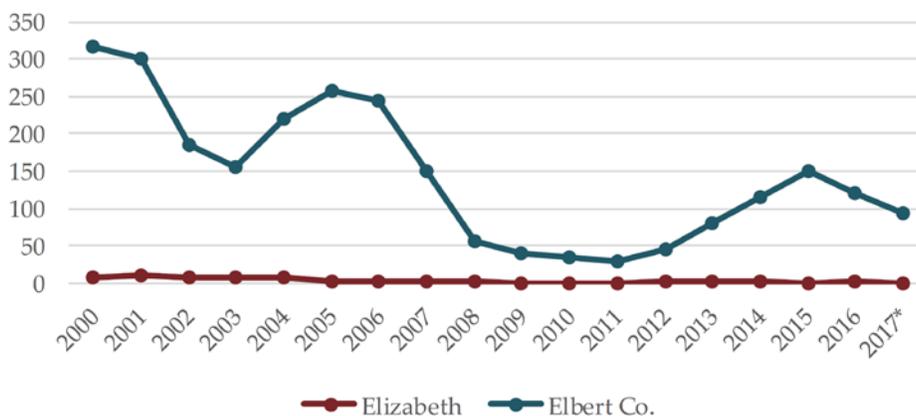
### BUILDING PERMITS SINGLE-FAMILY

Year	Elizabeth	Elbert Co.
2000	8	317
2001	10	301
2002	7	185
2003	6	154
2004	6	219
2005	2	258
2006	2	244
2007	3	150
2008	1	57
2009	0	39
2010	0	33
2011	0	30
2012	1	45
2013	1	79
2014	1	116
2015	0	149
2016	1	120
2017*	0	94

Source: SOCDs Building Permits Database

\*preliminary through July 2017

### # OF SINGLE-FAMILY BUILDING PERMITS ISSUED



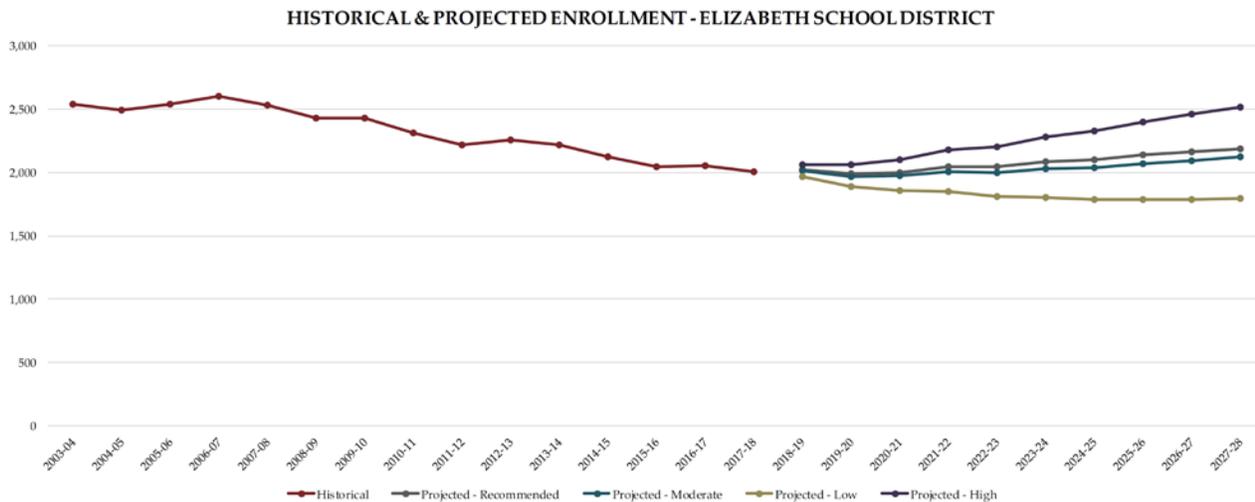
NOTE: A full subdivision analysis is provided in the full study.

## PROJECTED ENROLLMENT

Cooperative Strategies developed low, moderate, high, and recommended enrollment projections for the Elizabeth School District. The moderate enrollment projections are based on a selected average or weighted average of survival ratios (in this case, a 3 year weighted average, by school). The low and high enrollment projections are developed using statistical distributional theory, providing the District with a more cautious (low) and more generous (high) enrollment projection. The recommended enrollment projection is based on a detailed analysis of historical enrollment and resulting survival ratios over the past 15 years. Significant shifts in survival ratio patterns are realized and accounted for in determining projection ratios independently for each grade level. The recommended illustrates the most likely direction of the District based on more recent trends.

The range of enrollment projections from low (cautious) to high (generous) are offered due to the limitations of the cohort survival method in factoring changes to policies, program offerings, and future changes in housing and migration patterns. For example, the low enrollment projection might be used if housing declines significantly more than anticipated; the high enrollment projection might be used if housing growth increases at a more rapid rate than seen in recent years.

LOW PROJECTION	MODERATE PROJECTION	HIGH PROJECTION
↑ Higher inflation / interest rates	↔ Moderate inflation	↓ Low inflation / interest rates
↓ Decline in new housing	↔ Moderate level of new housing	↑ High level of new housing
↓ Decline in live births	↔ Stagnate number of live births	↑ Increase in live births



## ELIZABETH SCHOOL DISTRICT PROJECTED ENROLLMENT – RECOMMENDED

Based on the recommended projected enrollment, the student enrollment in the Elizabeth School District is projected to increase from 2,006 students in 2017-18 to 2,191 students in 2027-28, based on the cohort survival method.

Projected Enrollment - Recommended - District-wide

Grade	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
PK	141	141	141	141	141	141	141	141	141	141
K	114	132	149	150	143	143	143	143	143	143
1	107	115	134	150	152	145	145	145	145	145
2	98	112	119	139	157	158	151	151	151	151
3	106	103	117	125	146	164	166	159	159	159
4	139	108	104	119	127	149	168	168	161	161
5	140	140	109	105	121	128	150	169	170	163
6	125	138	139	107	104	119	127	148	166	168
7	136	129	142	143	111	107	122	130	152	172
8	142	139	132	145	146	113	109	125	133	156
9	206	169	180	167	184	187	142	147	168	174
10	165	209	172	182	169	187	190	144	149	171
11	188	159	200	165	175	163	179	182	138	144
12	217	194	164	208	170	182	168	185	189	143
<b>Recommended Total</b>	<b>2,024</b>	<b>1,988</b>	<b>2,002</b>	<b>2,046</b>	<b>2,046</b>	<b>2,086</b>	<b>2,101</b>	<b>2,137</b>	<b>2,165</b>	<b>2,191</b>
Spring Valley Ranch	32	32	32	32	32	32	32	32	11	0
Ritoro	28	28	28	28	7	0	0	0	0	0
NW Development	0	0	36	36	36	36	36	36	36	36
Student Potential from Planned Development	60	60	96	96	75	68	68	68	47	36
<b>Grand Total</b>	<b>2,084</b>	<b>2,048</b>	<b>2,098</b>	<b>2,142</b>	<b>2,121</b>	<b>2,154</b>	<b>2,169</b>	<b>2,205</b>	<b>2,212</b>	<b>2,227</b>

Source: Cooperative Strategies

Projected Enrollment - Recommended - District-wide

Grade	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
PK	141	141	141	141	141	141	141	141	141	141
K - 5	704	710	732	788	846	887	923	935	929	922
6 - 8	403	406	413	395	361	339	358	403	451	496
9 - 12	776	731	716	722	698	719	679	658	644	632
<b>Recommended Total</b>	<b>2,024</b>	<b>1,988</b>	<b>2,002</b>	<b>2,046</b>	<b>2,046</b>	<b>2,086</b>	<b>2,101</b>	<b>2,137</b>	<b>2,165</b>	<b>2,191</b>
Spring Valley Ranch	32	32	32	32	32	32	32	32	11	0
Ritoro	28	28	28	28	7	0	0	0	0	0
NW Development	0	0	36	36	36	36	36	36	36	36
Student Potential from Planned Development	60	60	96	96	75	68	68	68	47	36
<b>Grand Total</b>	<b>2,084</b>	<b>2,048</b>	<b>2,098</b>	<b>2,142</b>	<b>2,121</b>	<b>2,154</b>	<b>2,169</b>	<b>2,205</b>	<b>2,212</b>	<b>2,227</b>

Source: Cooperative Strategies

The darker shades of blue represent smaller cohorts while the darker shades of red represent larger cohorts in comparison to the historical, and all of the projected district-wide enrollment. The bold red line separates the projected enrollment developed based on actual live birth counts and projected live birth counts as described on page 24. It should be noted that the student potential from planned development may include existing Elizabeth School District students.

## ELIZABETH SCHOOL DISTRICT PROJECTED ENROLLMENT – RECOMMENDED

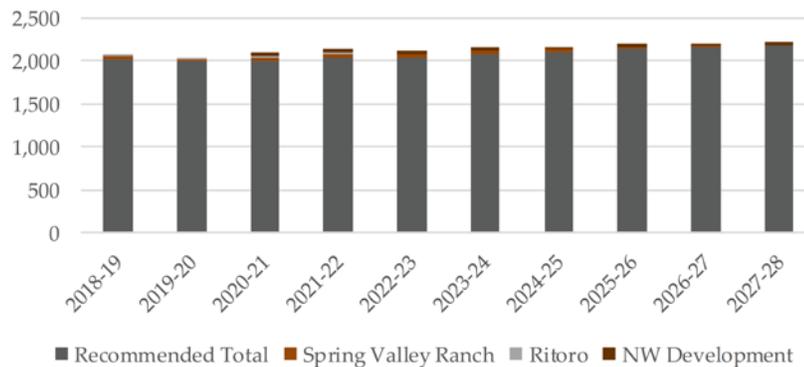
Projected Enrollment - Recommended - by School

School	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Trend
Elizabeth High	717	676	662	667	647	665	627	607	595	586	
Frontier High	59	55	54	55	51	54	52	51	49	46	
Elizabeth Middle	403	406	413	395	361	339	358	403	451	496	
Running Creek Elementary	308	306	317	340	362	381	396	401	398	395	
Singing Hills Elementary	396	404	415	448	484	506	527	534	531	527	
Running Creek Preschool	63	63	63	63	63	63	63	63	63	63	
Singing Hills Preschool	78	78	78	78	78	78	78	78	78	78	
<b>Total</b>	<b>2,024</b>	<b>1,988</b>	<b>2,002</b>	<b>2,046</b>	<b>2,046</b>	<b>2,086</b>	<b>2,101</b>	<b>2,137</b>	<b>2,165</b>	<b>2,191</b>	

Source: Cooperative Strategies

School	Trend
Elizabeth High	
Frontier High	
Elizabeth Middle	
Running Creek Elementary	
Singing Hills Elementary	
Running Creek Preschool	
Singing Hills Preschool	
<b>Total</b>	

### PROJECTED ENROLLMENT - RECOMMENDED - DISTRICT-WIDE



# ELIZABETH SCHOOL DISTRICT FUTURE DEVELOPMENT AND CURRENT STUDENT DENSITY

