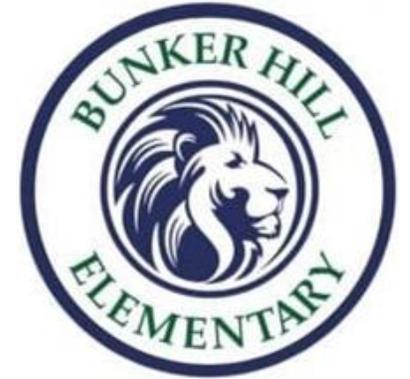




WELCOME TO BUNKER HILL ELEMENTARY!

We are committed to providing progressive, meaningful instruction through communication, collaboration and congruent teaching in a caring environment.

Bunker Hill Elementary School
Spring Branch ISD



Bunker Hill ES Replacement SD/DD Recommendation

June 8, 2020





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- 01 **Introduction** - Project Scope + Schedule
- 02 **PAT Engagement** - Process Overview
- 03 **Recommendation** - Bunker Hill ES Replacement



Project Scope:

- Replacement of Bunker Hill Elementary School
- **On-Site** Transition
- **Approx. 103,360 SF** per SBISD Educational Specifications
- **18-20 Month** total Construction period

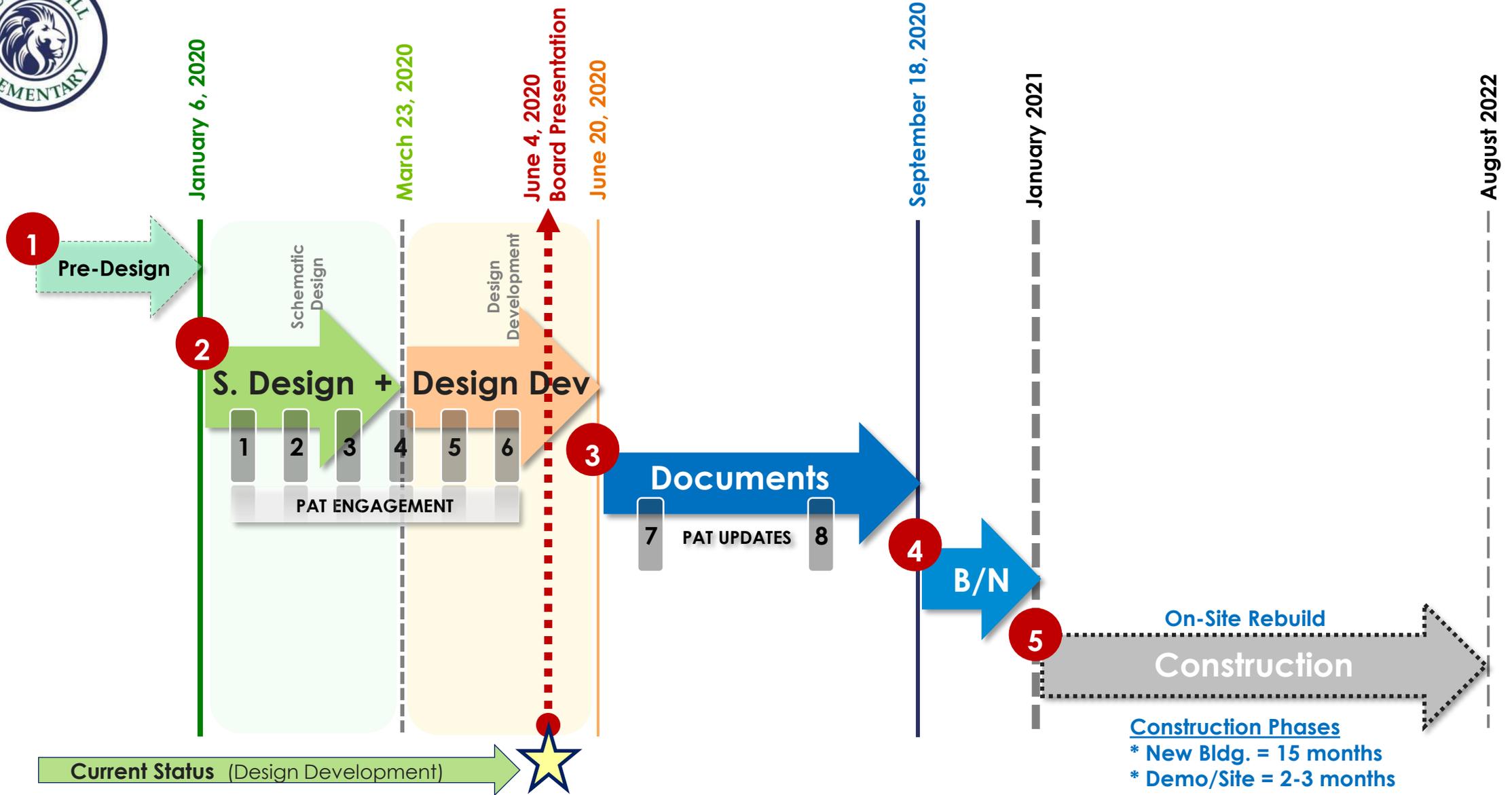




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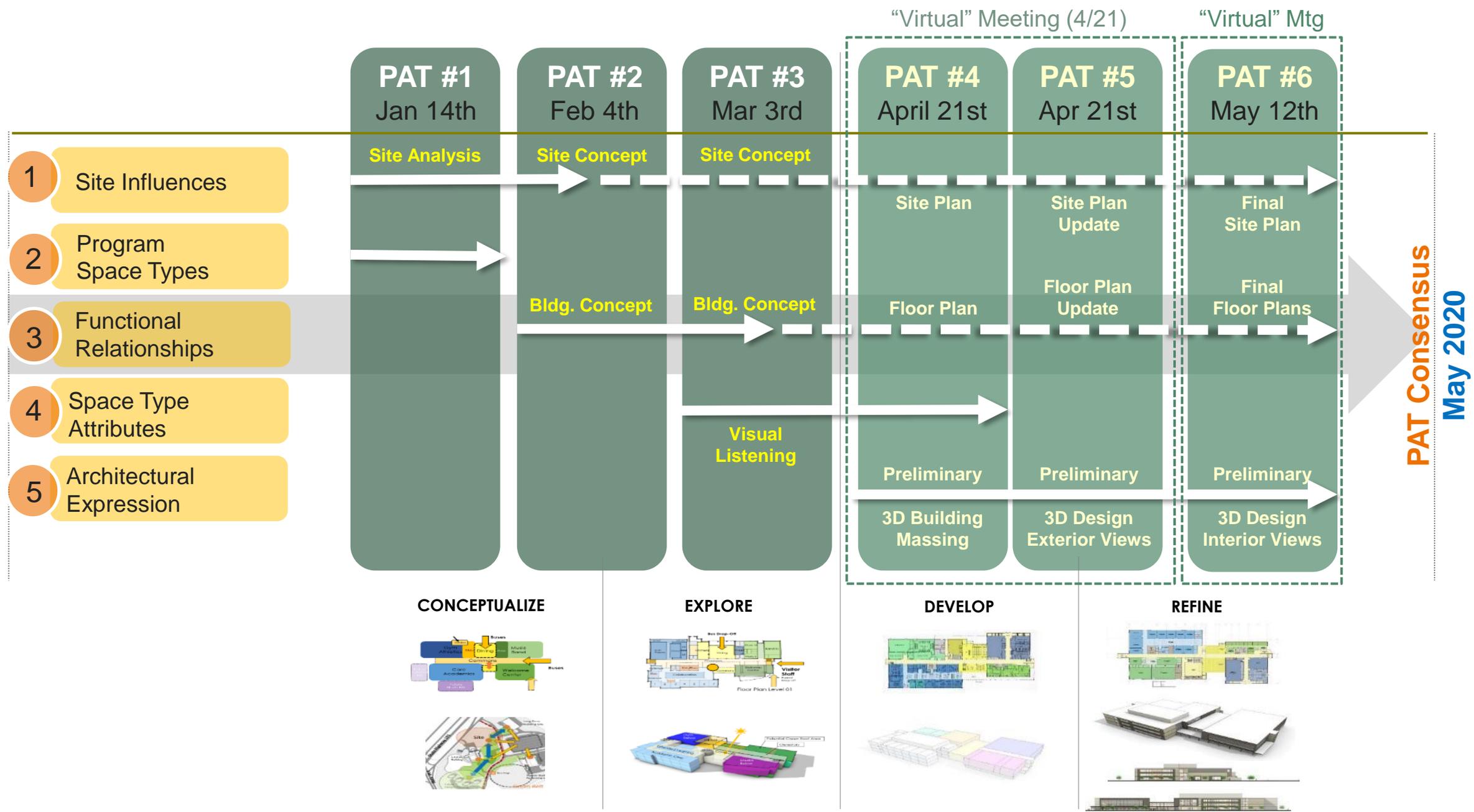
01 **Introduction** - Project Scope + Schedule



02 **PAT Engagement** - Process Overview

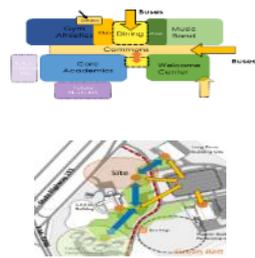
03 **Recommendation** - Bunker Hill ES Replacement

January 2020

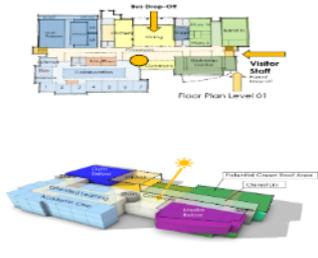


PAT Consensus
May 2020

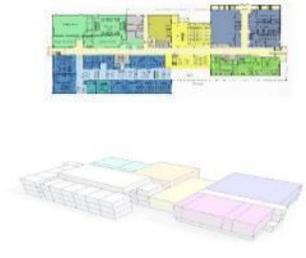
CONCEPTUALIZE



EXPLORE



DEVELOP

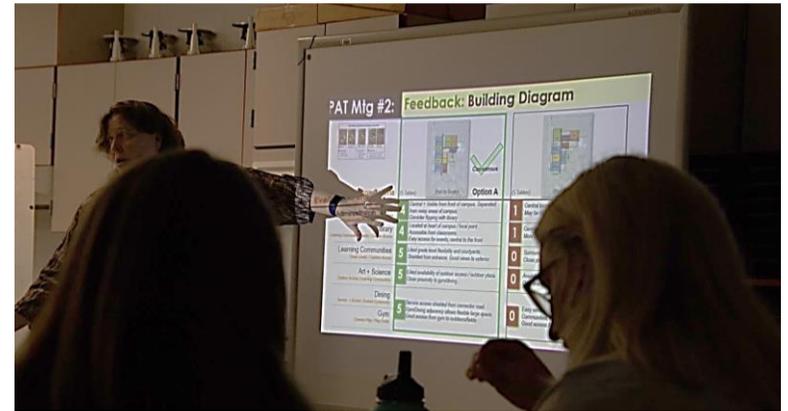


REFINE



PAT Mtg #1 thru Mtg #3: PAT Engagement → PAT Input from variety of activities influenced New BHE Design

PAT INPUT / FEEDBACK



PAT Mtg #3: RECAP PAT Mtg #3 Feedback → Guiding Principles from PAT set objectives for new BHE design

Q1: Does the proposed plan meet the objectives of the BHE Guiding Principles?

Meets Objectives: **17** (Unanimous) | Does Not Meet Objectives: **0**

Q2: Preferred Concept for BHE

Orthogonal Plan: **4** | Hybrid Plan: **2** | Organic Plan: **6** (Consensus)

PAT Voting Results (17 voters)
 Like Elements of Both - Leaning towards Organic:
 - 4 votes - Orthogonal Plan
 - 8 votes - Organic Plan
 - 5 votes - Hybrid Plan (3 Organic / 2 Orthogonal)

PAT Mtg #3: PAT Input / Engagement

PAT Guiding Principles:

- Open and accessible learning spaces
- Support for learning and teaching
- Support for research and innovation
- Support for community and social interaction
- Support for sustainability and environmental stewardship
- Support for accessibility and inclusivity
- Support for flexibility and adaptability
- Support for safety and security
- Support for quality and excellence
- Support for cost-effectiveness and value for money

Hybrid Plan Learning Communities + Shared Spaces

ORTHOGONAL PLAN | **ORGANIC PLAN**

BHE Personality / Character

PAT Mtg#1 Feedback: Design Vision

1. How do you want the building to be perceived and characterized?

PHYSICAL ENVIRONMENT

Natural Open Trees / Woodsy Cozy Quaint
 Traditional Cottage Accessible Quiet
 Private Peaceful Park-like Setting Safe Green Tucked Away Contemporary Intimate

IDENTITY CHARACTERISTICS

Family Friendly Welcoming Community Loving Student-Centered Inclusive
 Excellence Happy Proud Tight Knit Caring Diversity High-Achieving Charming Involved
 Home Enclave Neighborhood Collaborative

What makes BHE unique

PAT Mtg#1 Feedback: Design Vision

2. How do you want the building to be distinguished from other buildings?

PHYSICAL ENVIRONMENT

Natural Environment Embedded in the Neighborhood Access to Outdoor Learning
 Intimate Building Quiet/Private
 Exterior Views/Natural Light Protected Exterior Entries One Story

IDENTITY CHARACTERISTICS

Small Community Oriented Sense of Closeness/Togetherness
 Family Oriented Inclusive/Diversity Student/Parent Involvement Welcoming
 Traditions Happy Friendly Openness Excellence Core Values Innocence

Existing: Favorite/Least Favorite

PAT Mtg#1 Feedback: Design Vision

3. What do you like or dislike about the existing campus? What do you like or dislike about the existing campus? What do you like or dislike about the existing campus?

FAVORITE ASPECTS

Outdoor Spaces Natural Setting Open Space Walkable / Bikeable Views
 Play Spaces Hidden Neighborhood Privacy
 Art Displays Natural Wood in the Library Old School Contemporary Design Intimate Culture

LEAST FAVORITE ASPECTS

Parking / Lack of Drive Connection Too Many Entrances / Too Far Apart
 Safety / Security Concerns Site / Location of Entrance Age / Condition of Building
 Technology Need More Outdoor Learning Features Cafeteria Too Small
 Lack of Multi-Function Space Outdoor Walkways Stacking Traffic on Stray/Taylorcrest

Bunker Hill ES | Design Vision Common Themes from PAT:

- Community Oriented / Sense of Closeness
- Embedded in Neighborhood
- Access to Outdoor Learning
- Student Centered / Inclusive
- Natural / Open / Trees / Woodsy
- Welcoming / Family / Friendly

Support Student/Community

PAT Mtg#1 Feedback: Educational Vision

Describe how the building can help support both Student engagement and Community both in:

<p>FLEXIBILITY</p> <p>Larger and more flexible meeting, learning and work areas</p> <p>Spaces that fit evening programs, performances and community activities</p> <p>Ability to separate public spaces from evening community</p> <p>Spaces with room to work and store</p> <p>More Restrooms?</p> <p>Better access</p>	<p>LEARNING ENVIRONMENT</p> <p>Incorporate access to outdoor learning opportunities</p> <p>Library at center of instructional spaces</p> <p>Distributed space where students are active as much as they study</p> <p>Spaces for special learning activities</p>	<p>PHYSICAL ENVIRONMENT</p> <p>Taking advantage of outdoor environment as an asset</p> <p>More Parking</p> <p>Use of Natural Lighting</p> <p>Welcoming Environment</p>
---	--	---

21st Century Learning Environment

PAT Mtg#1 Feedback: Educational Vision

Describe how the building can help support 21st Century Learning & Learning environment both in: Support and help successful program.

<p>LEARNING ENVIRONMENT</p> <p>Technology:</p> <p>Access to / Use of / Scalable</p> <p>Flexible collaborative spaces for meeting and learning (meeting classrooms)</p> <p>Practical and innovative Platform</p> <p>Equipment advance for 21st jobs that encourage learning the process</p> <p>Library at center of instructional spaces</p> <p>Lab with new world application / environments for future skill sets</p> <p>Distributed / Shared / Flexible space</p>	<p>PHYSICAL ENVIRONMENT</p> <p>Ample Natural Light / Views to Exterior</p> <p>Safety</p> <p>Energy efficient / climate focused</p> <p>"Check-in/Checkout" - "Check-in/Check-out"</p>	<p>FLEXIBILITY</p> <p>Flexibility</p> <p>Forward Looking</p>
		<p>COMMUNITY</p> <p>Conducive for Parent Involvement</p> <p>Building Community</p>

Teaching and Learning

PAT Mtg#1 Feedback: Educational Vision

Describe how Teaching and Learning new changes at Bunker Hill Secondary School in 2025.

<p>TEACHING STRATEGIES</p> <p>Collaborative Teaching and Learning</p> <p>Openness from teacher focused to Student focused</p> <p>Move from 20's to Thinking Skills</p> <p>More focus on individualized Instructional Approach</p> <p>Team Teaching</p> <p>Using Student Help / Resources</p>	<p>TECHNOLOGY</p> <p>One-to-one technology / growth of personal technology</p> <p>Information Knowledge</p> <p>Science Lab / Ed. Advance / Advance</p>	<p>PHYSICAL ENVIRONMENT</p> <p>Classroom spaces / instructional area use</p> <p>small and large group instruction</p> <p>Use large "Open" "Open" / open spaces</p> <p>Denies / better / change</p>
		<p>COMMUNITY</p> <p>Safety and Security</p> <p>Designing for safety</p> <p>More access + better to everybody</p>

Bunker Hill ES | Educational Vision

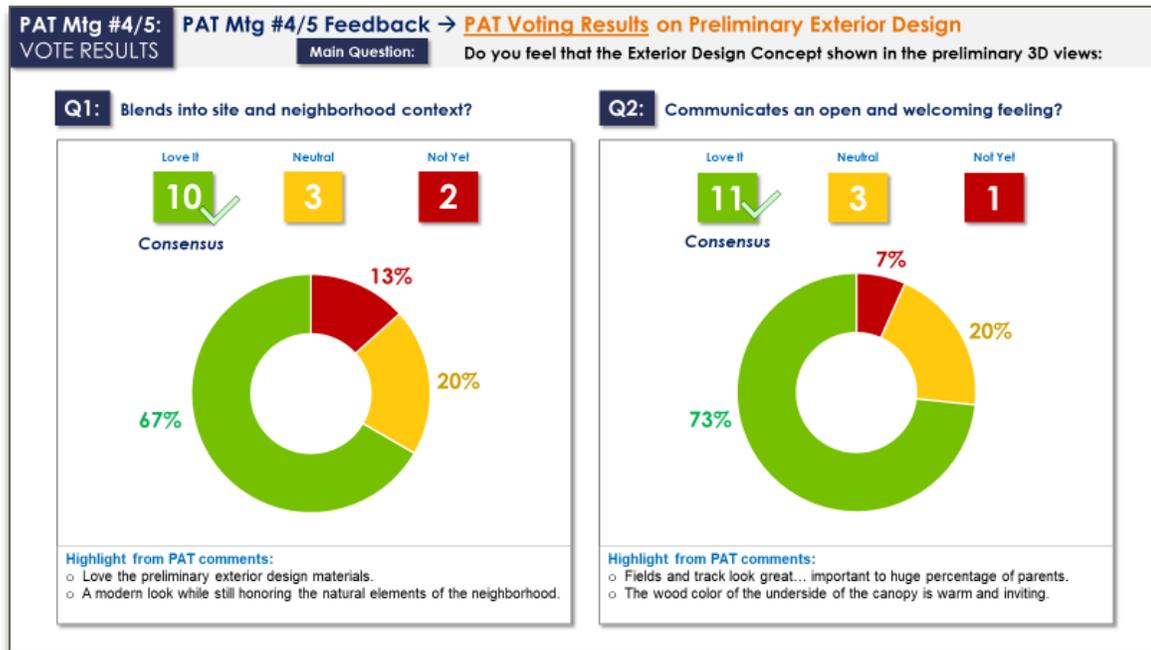
Common Themes from PAT:

- Library at Center of Instruction
- Natural Light / Views to Exterior
- Flexible / Collaborative Spaces
- Access to Outdoor Learning
- Safe Environment / Student Movement
- Student Focused / Build Thinking Skills

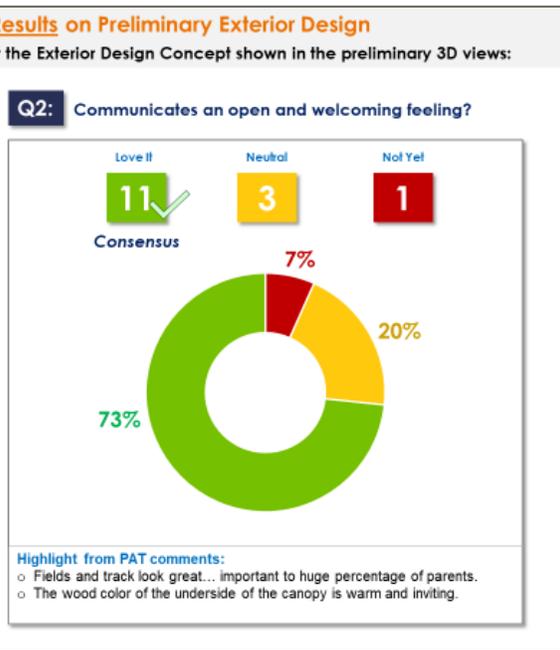
Bunker Hill ES | Guiding Principles Design Objectives from PAT:

- 1. Open and Welcoming feeling.**
Inviting to and inclusive of the diverse community.
- 2. Embedded within Natural setting.**
Connected with views and access to walkable neighborhood.
- 3. Student centered and Parent involved.**
Celebrating excellence, achievement and tradition.
- 4. Flexible, Collaborative and Forward Thinking.**
Responsive to Teaching and Learning objectives over time.

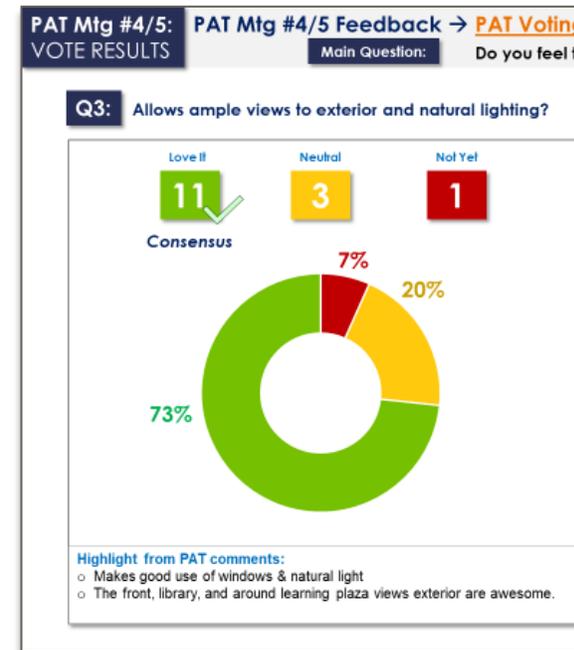
The design team provided **Preliminary 3D Views** showing the **Exterior Design (PAT Mtg #4/5)** to seek feedback from the PAT and confirm if the design development was heading in the right direction.



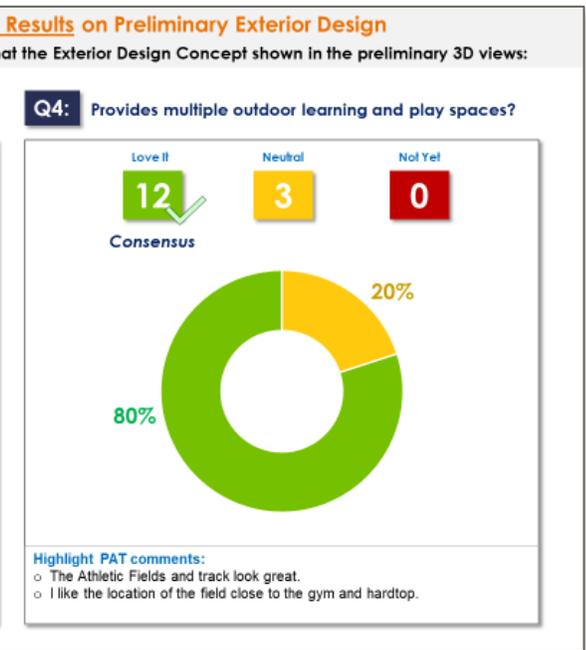
Blends into Neighborhood Context



Open and Welcoming Feeling



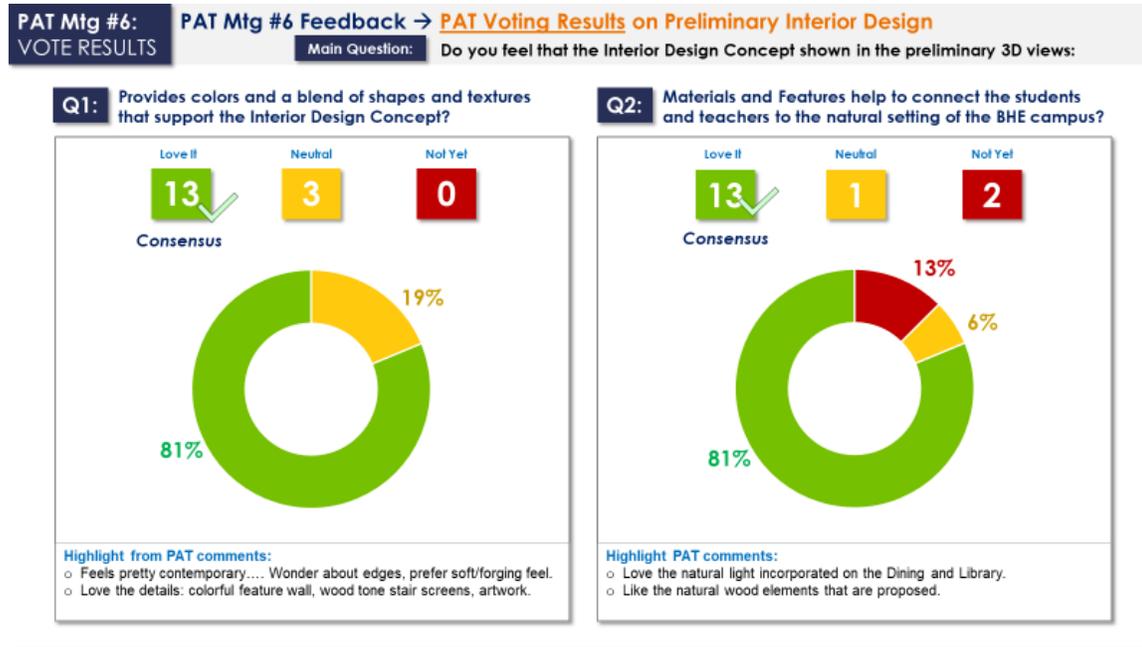
Views to Exterior + Natural Lighting



Outdoor Learning + Play Spaces

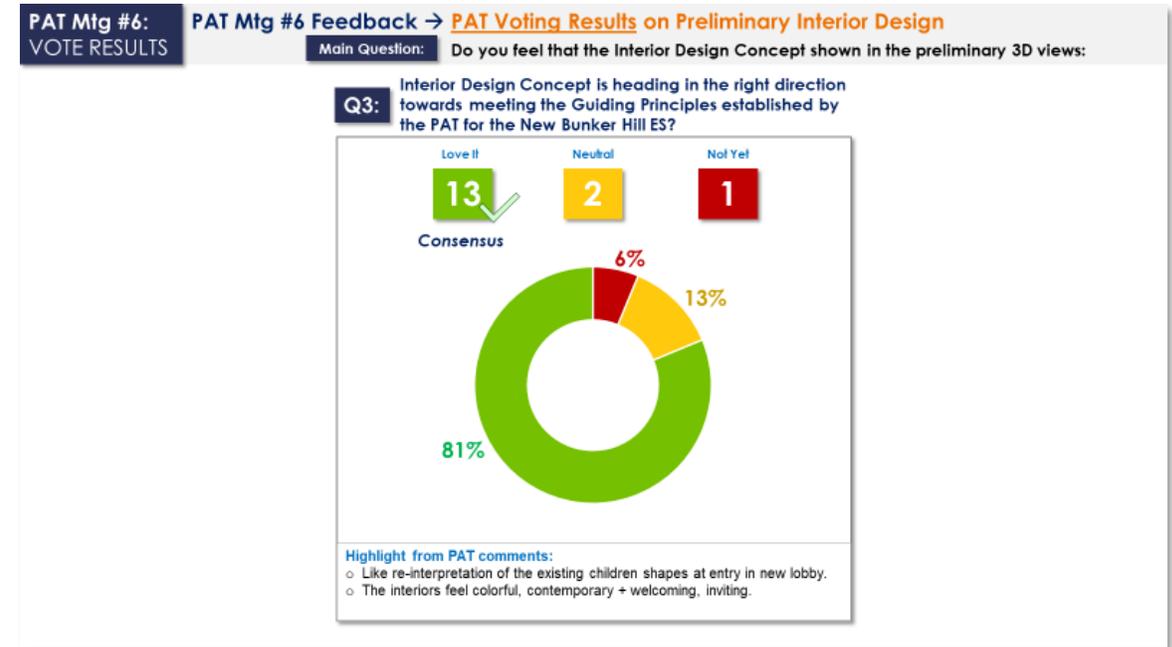
Based on the PAT member individual responses to the survey questions it shows we have CONSENSUS from the PAT the Exterior Design is heading in the right direction.

The design team provided **Preliminary 3D Views** showing the **Interior Design (PAT Mtg #6)** to seek feedback from the PAT and confirm if the design development was heading in the right direction.



Blend of Colors, Shapes, Textures

Connection to BHE natural setting



Support BHE PAT Guiding Principles

Based on the PAT member individual responses to the survey questions it shows we have CONSENSUS from the PAT the Interior Design is heading in the right direction.



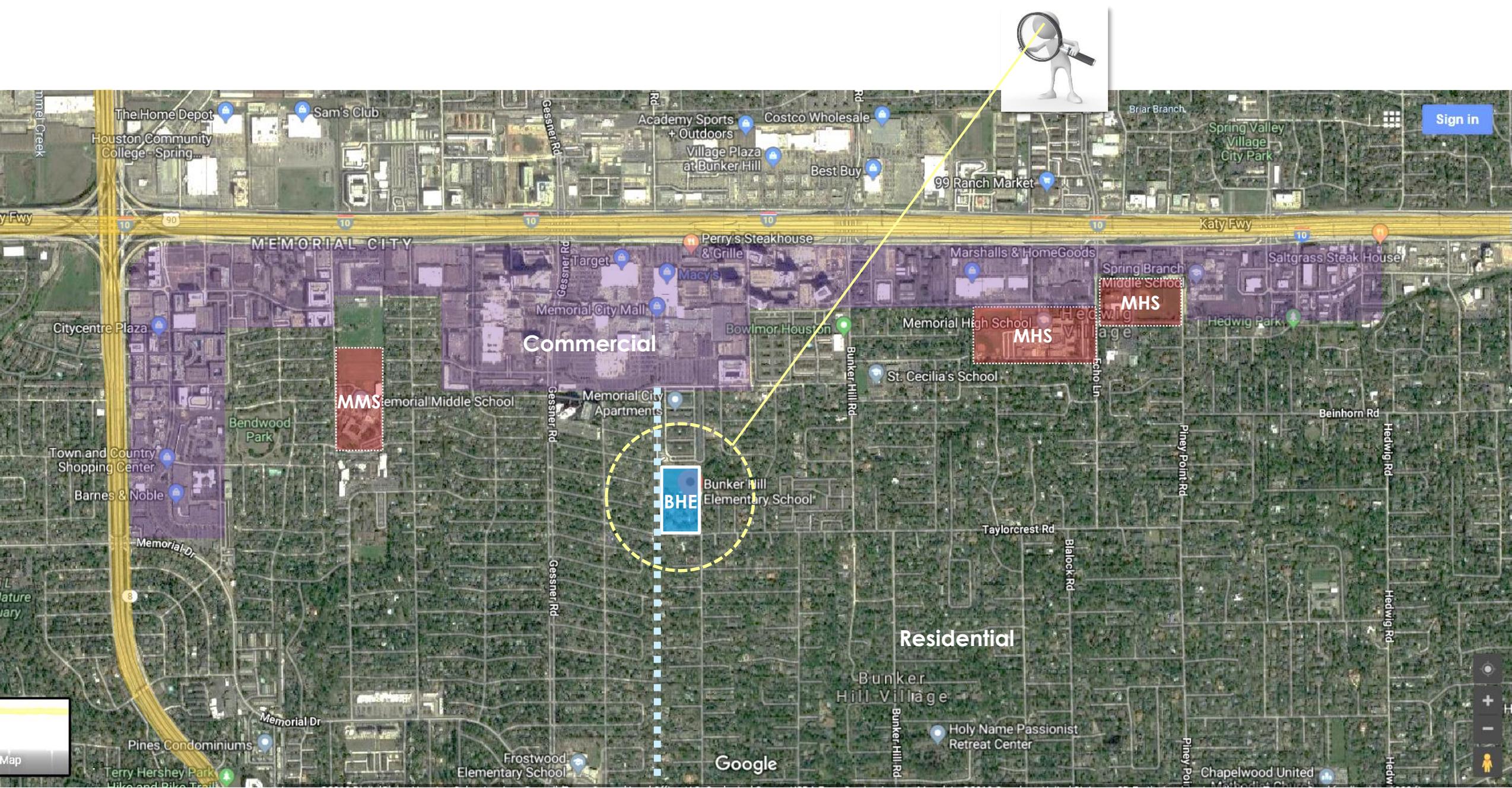
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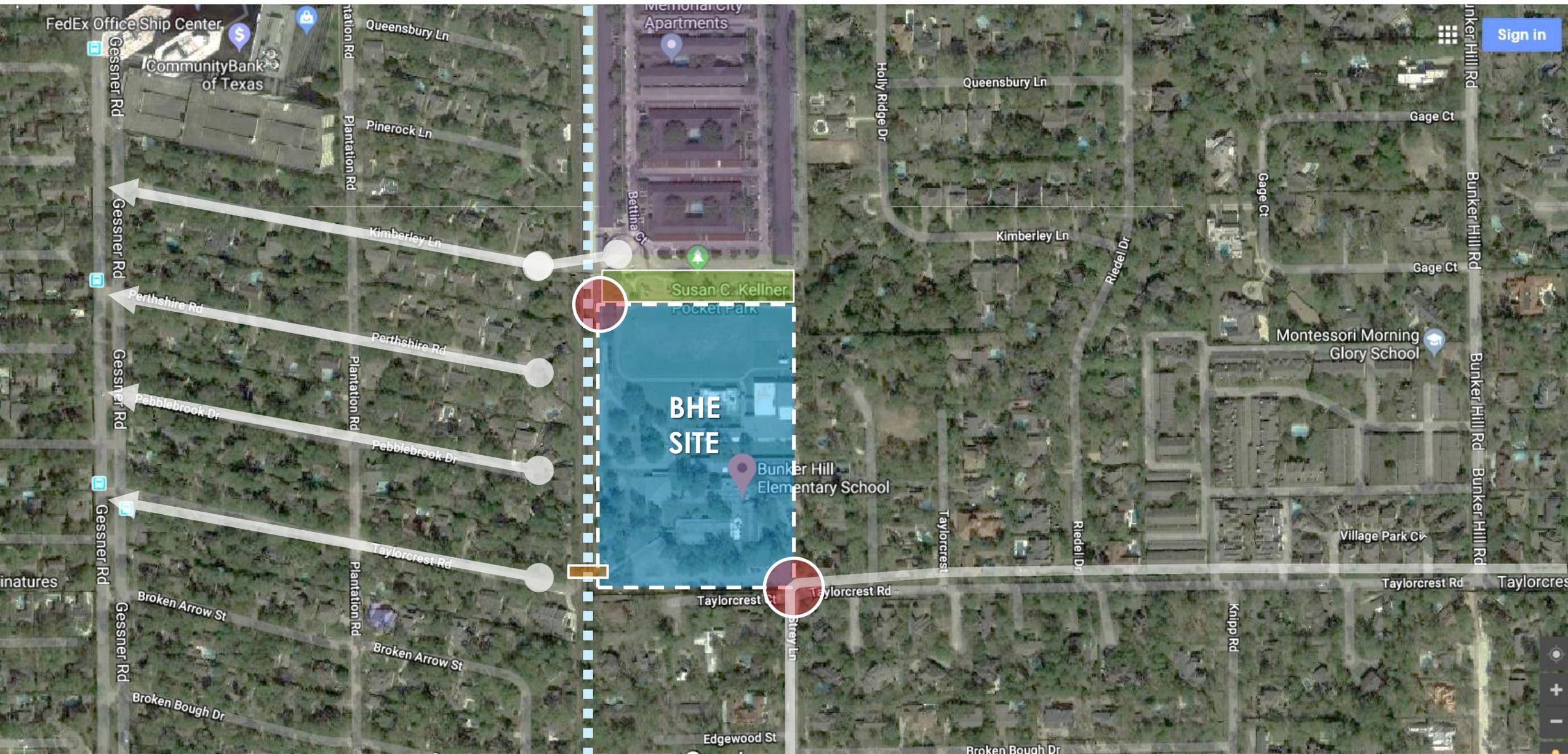


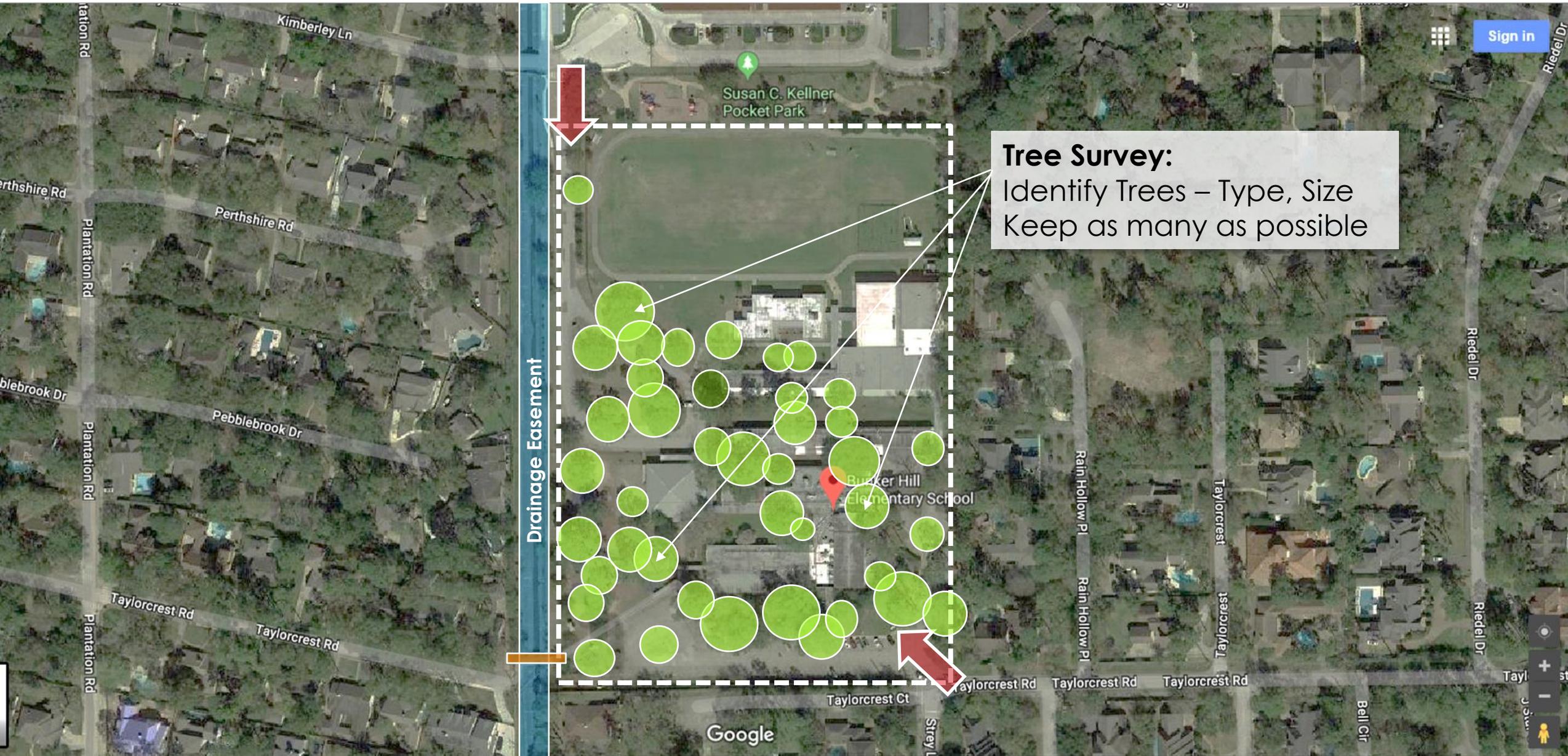
03 **Recommendation** - Bunker Hill ES Replacement



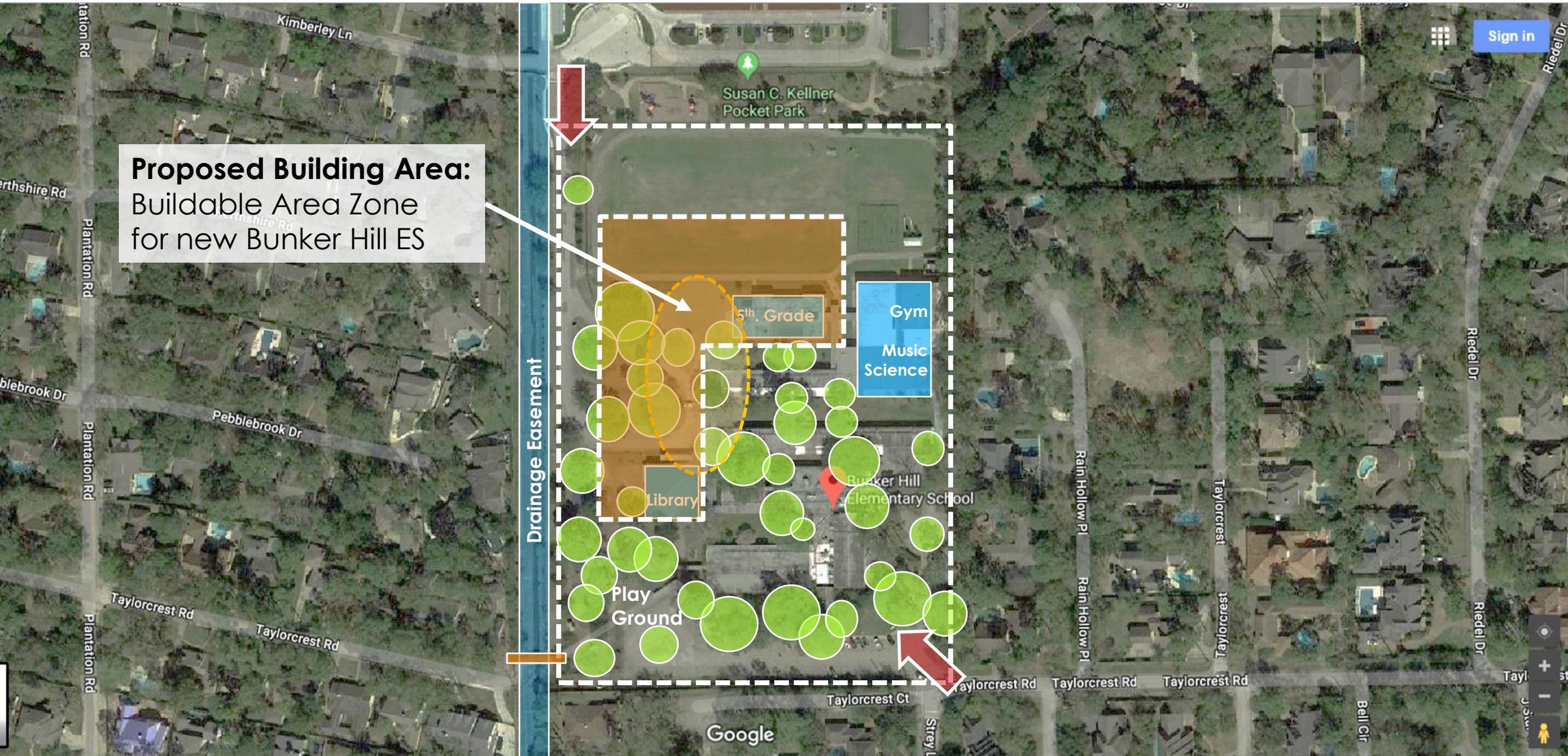
Bunker Hill ES | Existing Conditions / Constraints

Project Location





Tree Survey:
Identify Trees – Type, Size
Keep as many as possible



Proposed Building Area:
Buildable Area Zone
for new Bunker Hill ES

Drainage Easement

Susan C. Kellner
Pocket Park

5th. Grade

Gym
Music
Science

Library

Bunker Hill
Elementary School

Play
Ground

Google

Sign in

Existing Condition Site Constraints

50' HARRIS COUNTY DRAINAGE EASEMENT

50' BUILDING SETBACK

ROADWAY EASEMENT

UTILITY EASEMENT

Site Access points (Internal Connecting road)

2 Story Height Max.

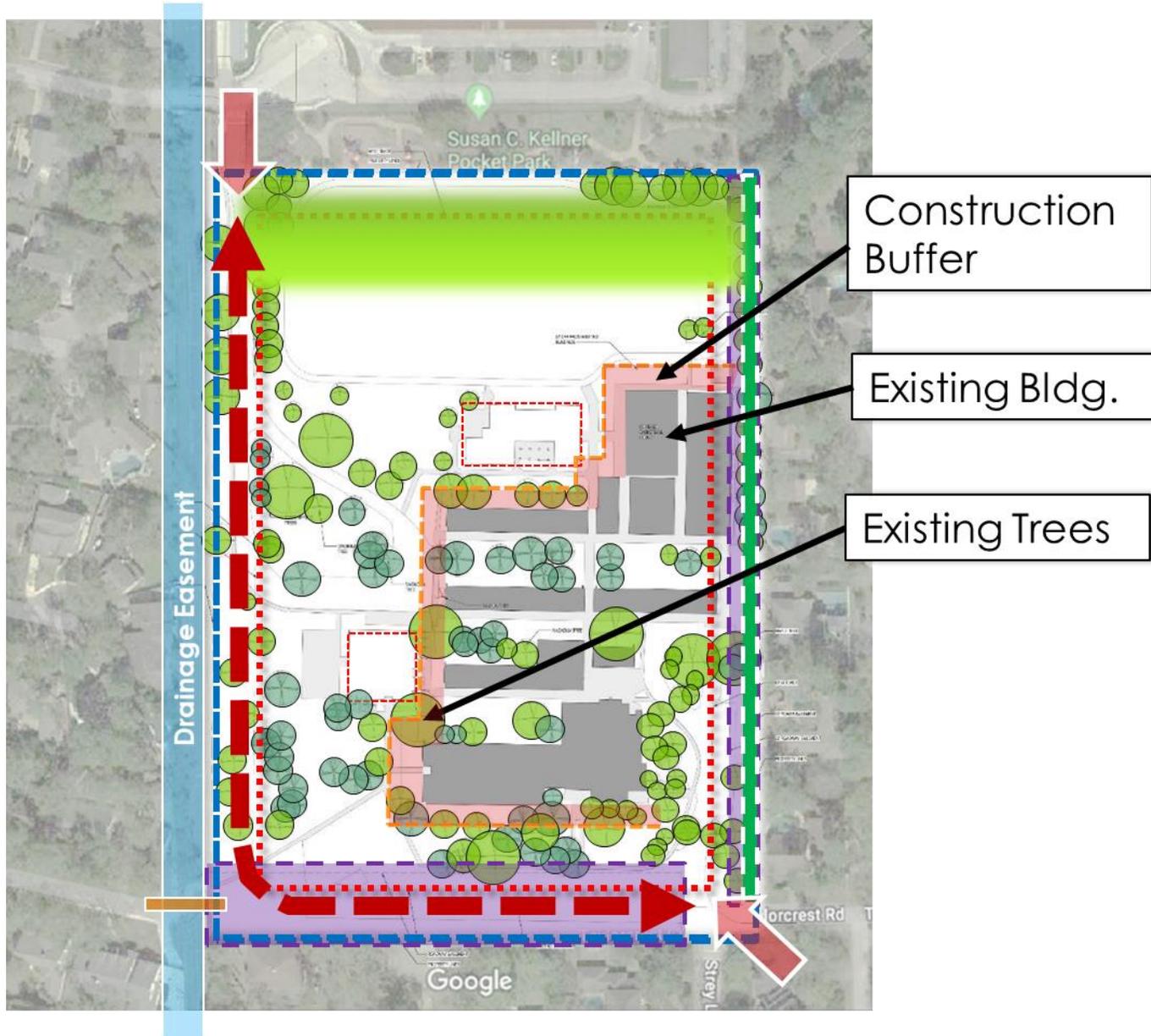
Residential Zones on Three sides

buffer from Apartments Undetermined
future use

Existing Building & Existing Trees-survey



Traffic Patterns and Pedestrian Circulation



Existing Condition Site Constraints

50' HARRIS COUNTY DRAINAGE EASEMENT

50' BUILDING SETBACK

ROADWAY EASEMENT

UTILITY EASEMENT

Site Access points (Internal Connecting road)

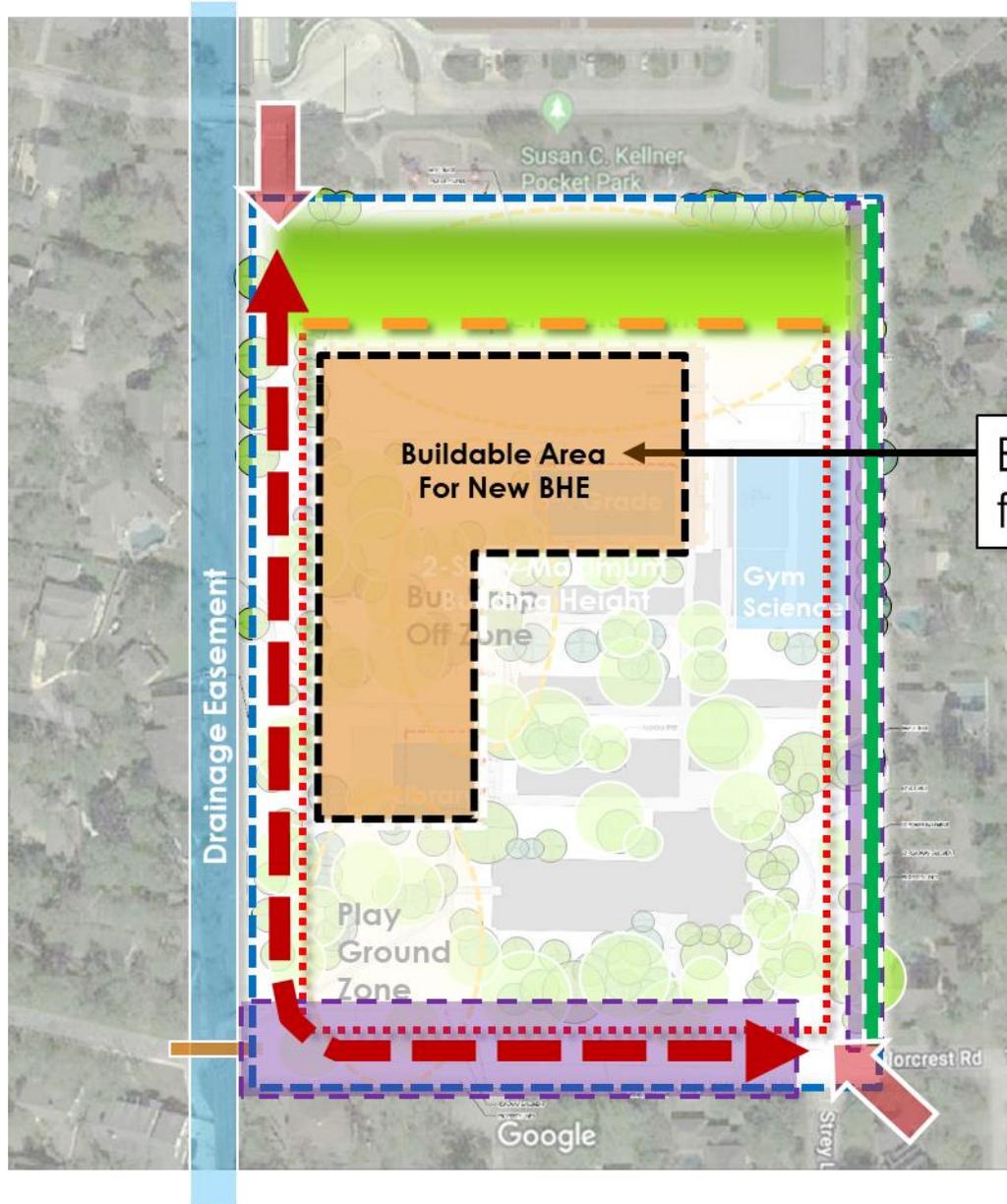
2 Story Height Max.

Residential Zones on Three sides
buffer from Apartments Undetermined future use

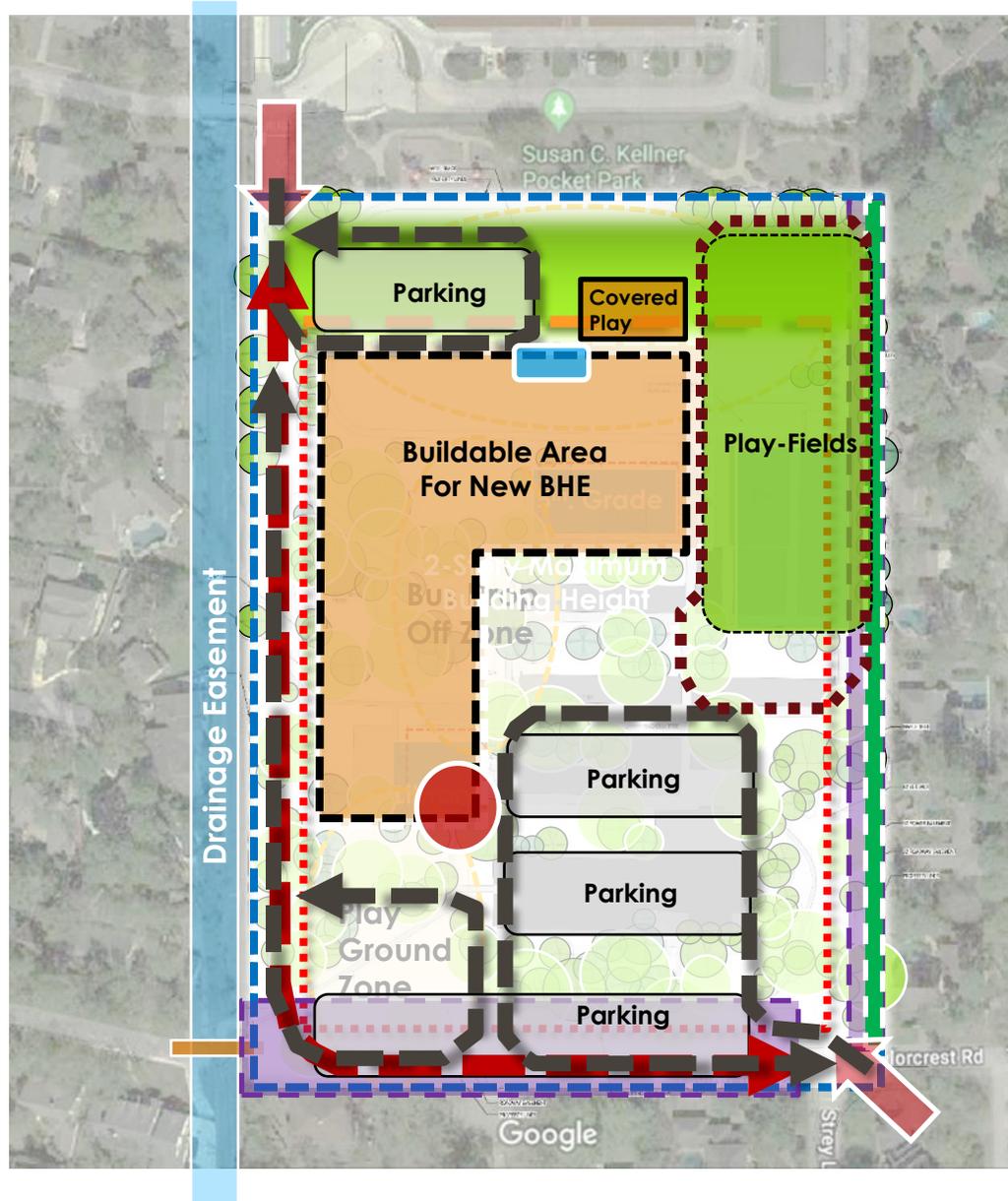
Existing Building & Existing Trees-survey



Traffic Patterns and Pedestrian Circulation



Buildable Area
for new BHE



Site Plan

Functional Relationships

Entry Drives: Parent Drop-off, Visitor Entry + Bus Drop-Off

Parking: Visitor, Staff, Service

Outdoor Play: Covered Play, 1/4 Mile Track, Fields



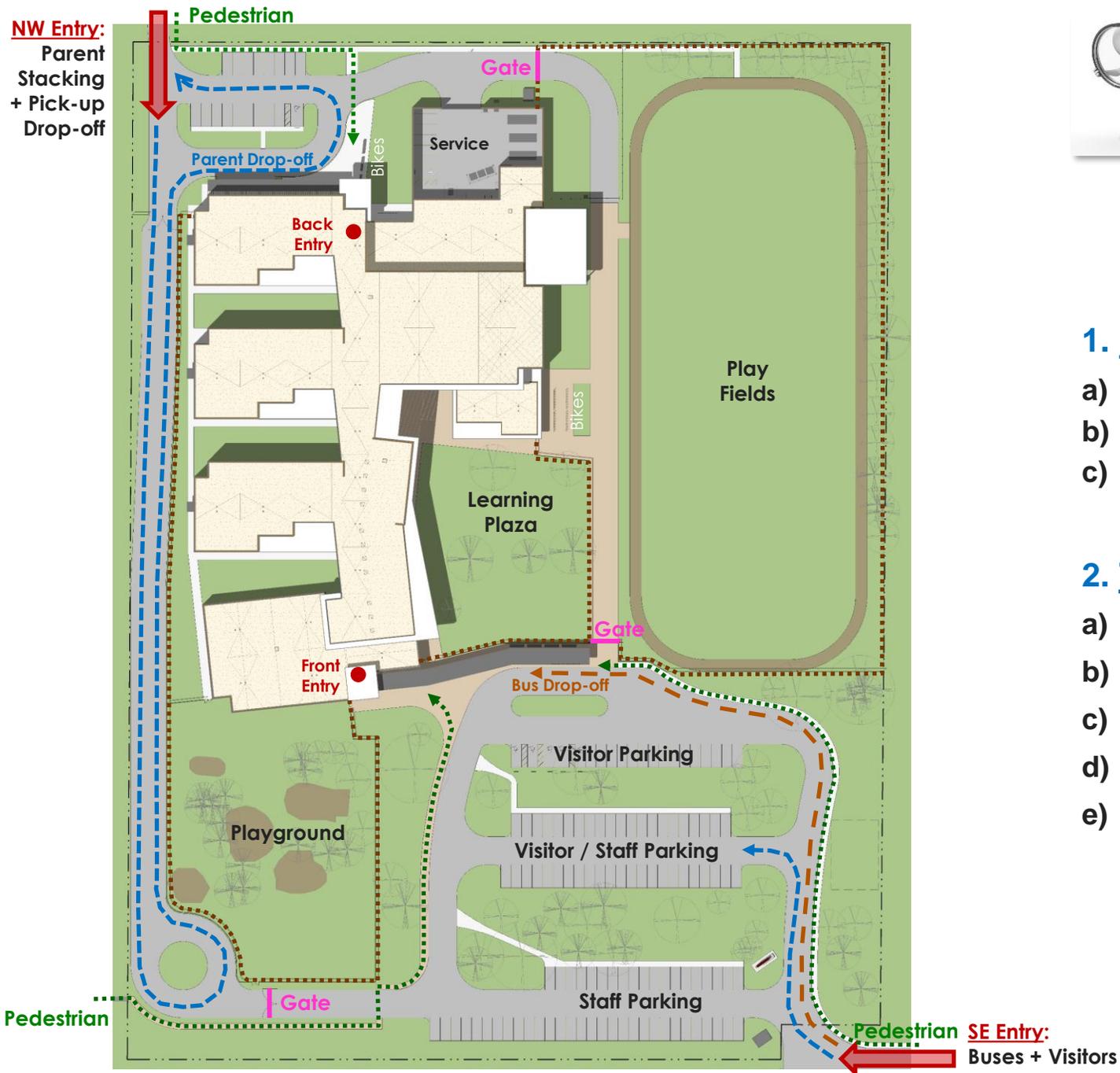
Bunker Hill ES Design Development Site Plan Elements

1. Perimeter Boundary / Security

- Site Access** (Existing access points to campus remain as is)
- Site Fencing** (6ft at Perimeter + Learning Plaza, 3 Gates)
- Building** (Main Front Entry, Back Secondary Entry)

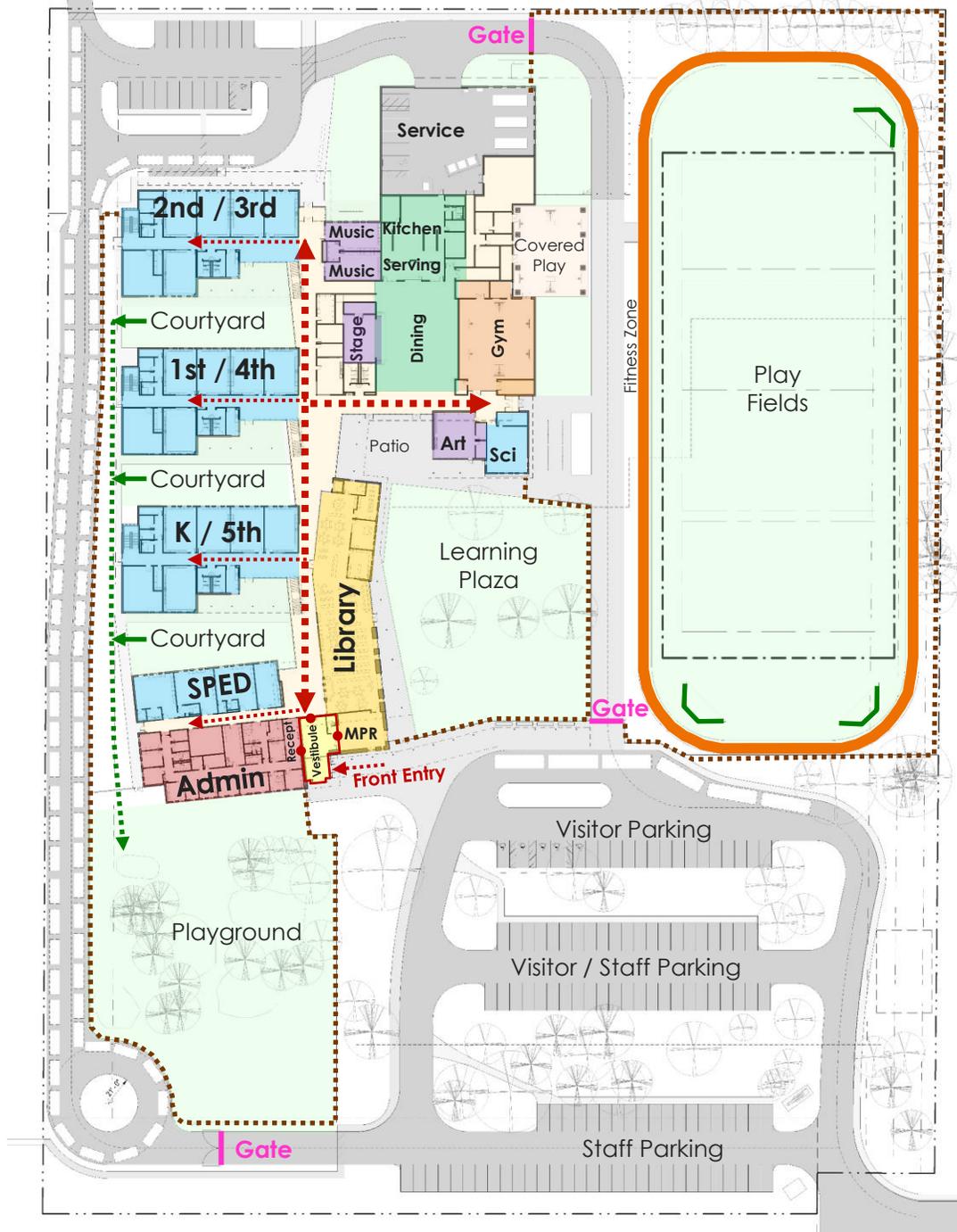
2. Traffic Flow

- Pedestrian Walks** (3 points of entry)
- Parent Drive/Drop-off** (NW corner from neighborhood)
- Bus Drive/Drop-off** (SE corner from Taylorcrest)
- Visitor Entry** (SE corner from Taylorcrest)
- Student Bike Racks** (80 near Gym + 20 at Parent Drop-off)





Bunker Hill ES Design Development Site Plan Elements



3. Building Organization

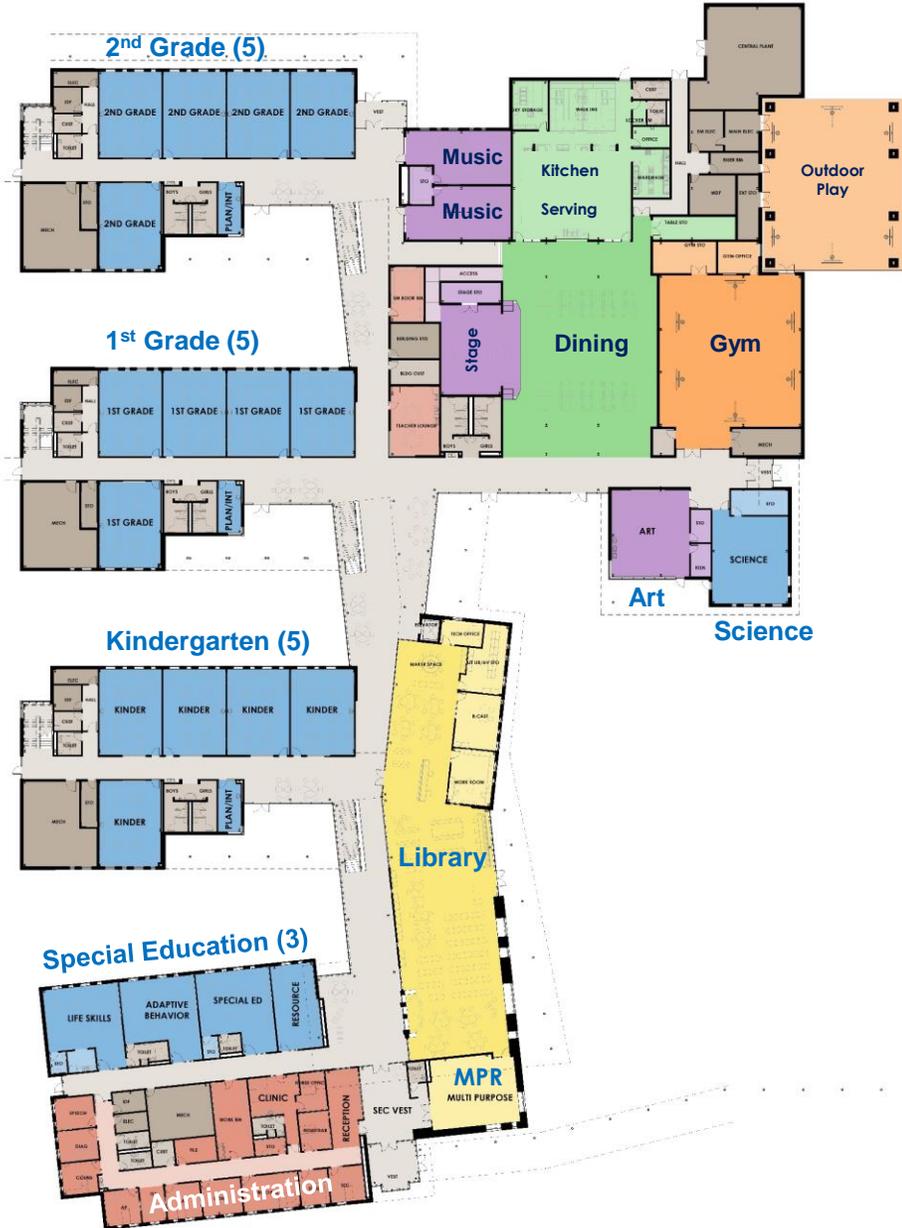
- Main Entry + Administration** (Identifiable, 1-Story)
- Learning Communities** (2-story Classroom Wings)
- Shared Spaces** (Library, Dining, Gym, Specials)

4. Outdoor Spaces

- Learning Community Courtyards** (Intimate, Protected)
- Learning Plaza** (Educational Patio, Trees, Green Space)
- Outdoor Play** (Gym, Covered Play, Fields, Fitness Zone)
- Playground** (Secure area near front)

Bunker Hill ES Design Development

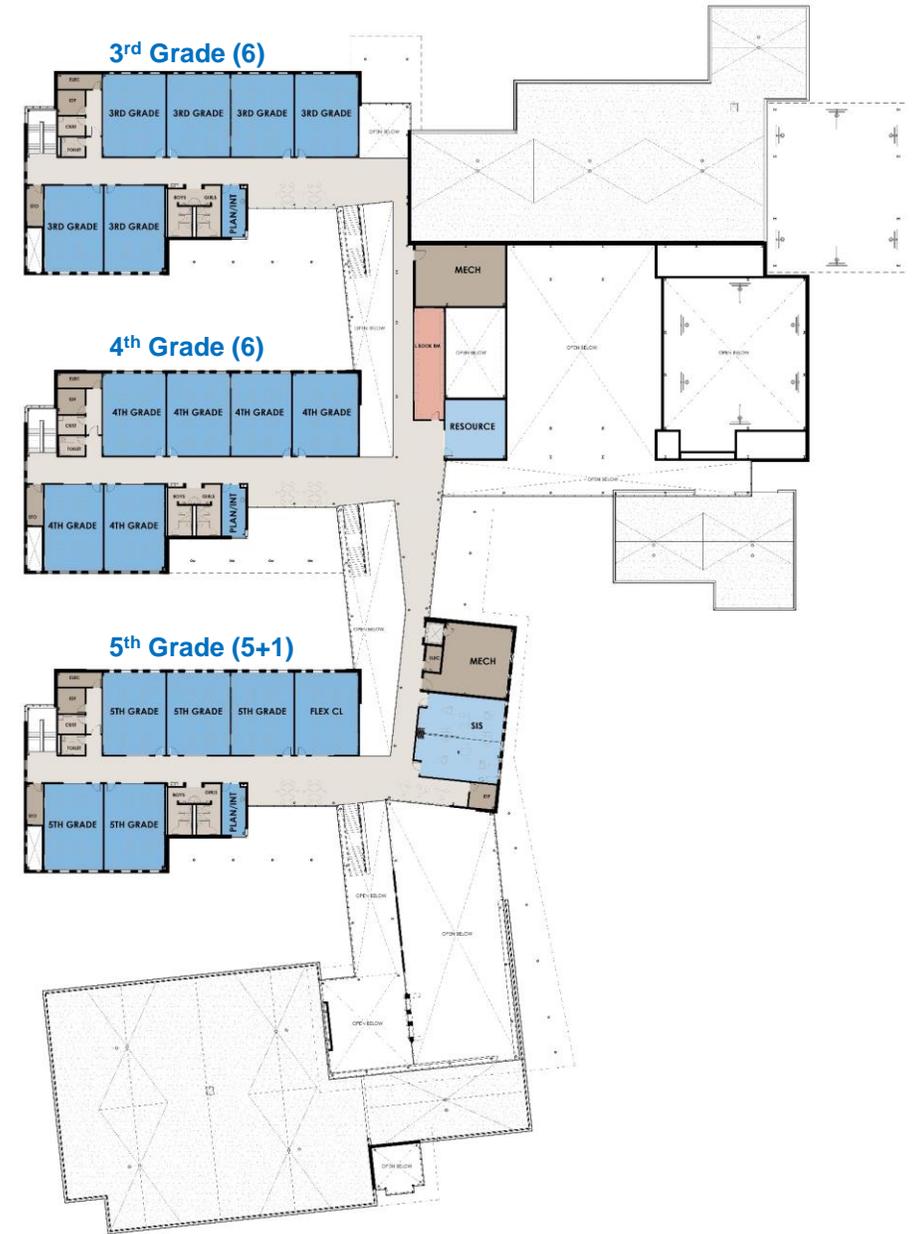
Floor Plan Elements

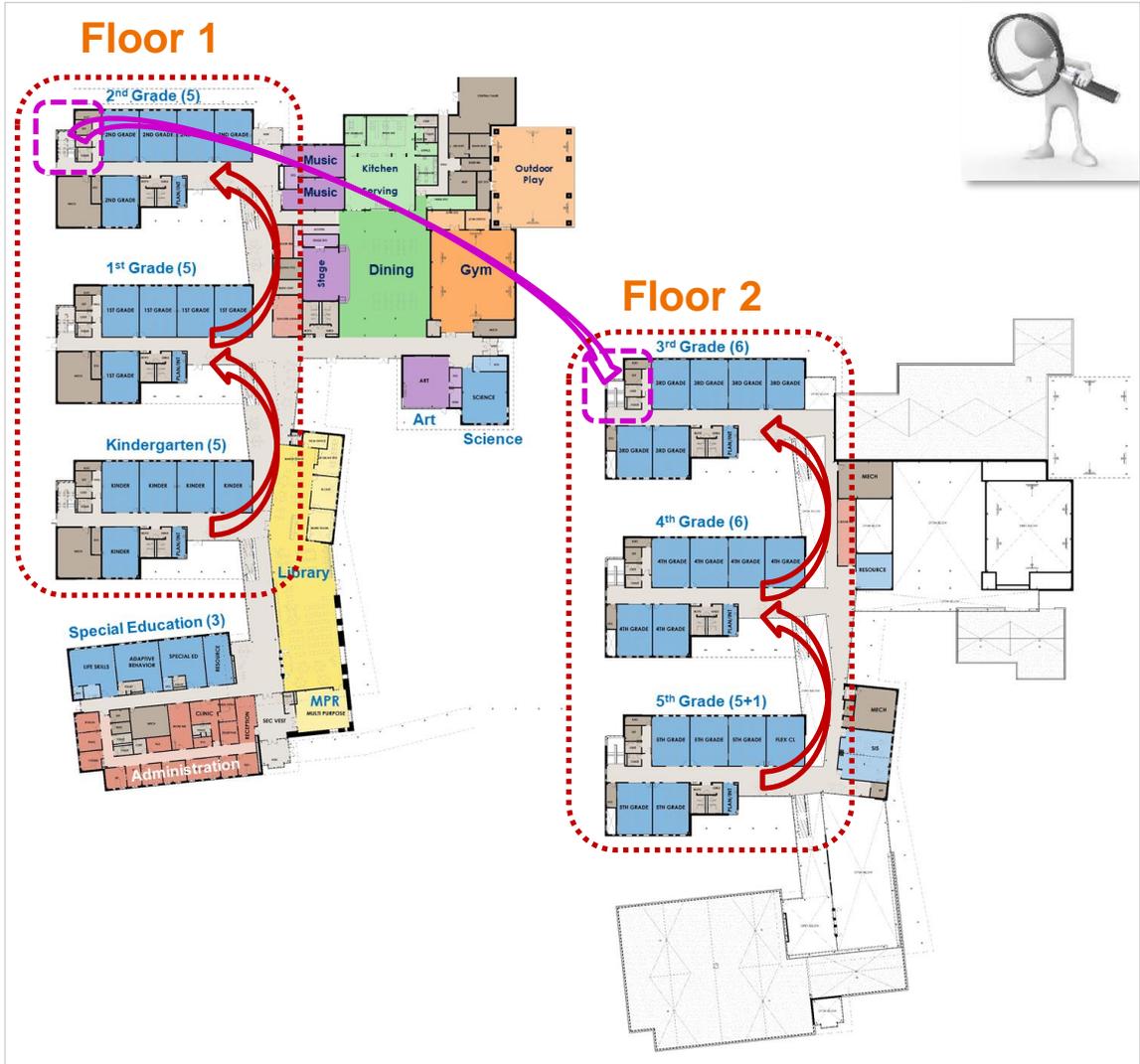


5 = PK/Kinder
 5 = 1st grade
 5 = 2nd grade
 6 = 3rd grade
 6 = 4th grade
 6 = 5th grade (5+1)
33 Classrooms Total

Legend

- Administration
- Media Center
- K-5th, SPED, Science
- Collaboration/Flex
- Dining Commons
- Gym / C. Play
- Art / Music
- Building Support
- Circulation





Floor Plan Clarification Information:

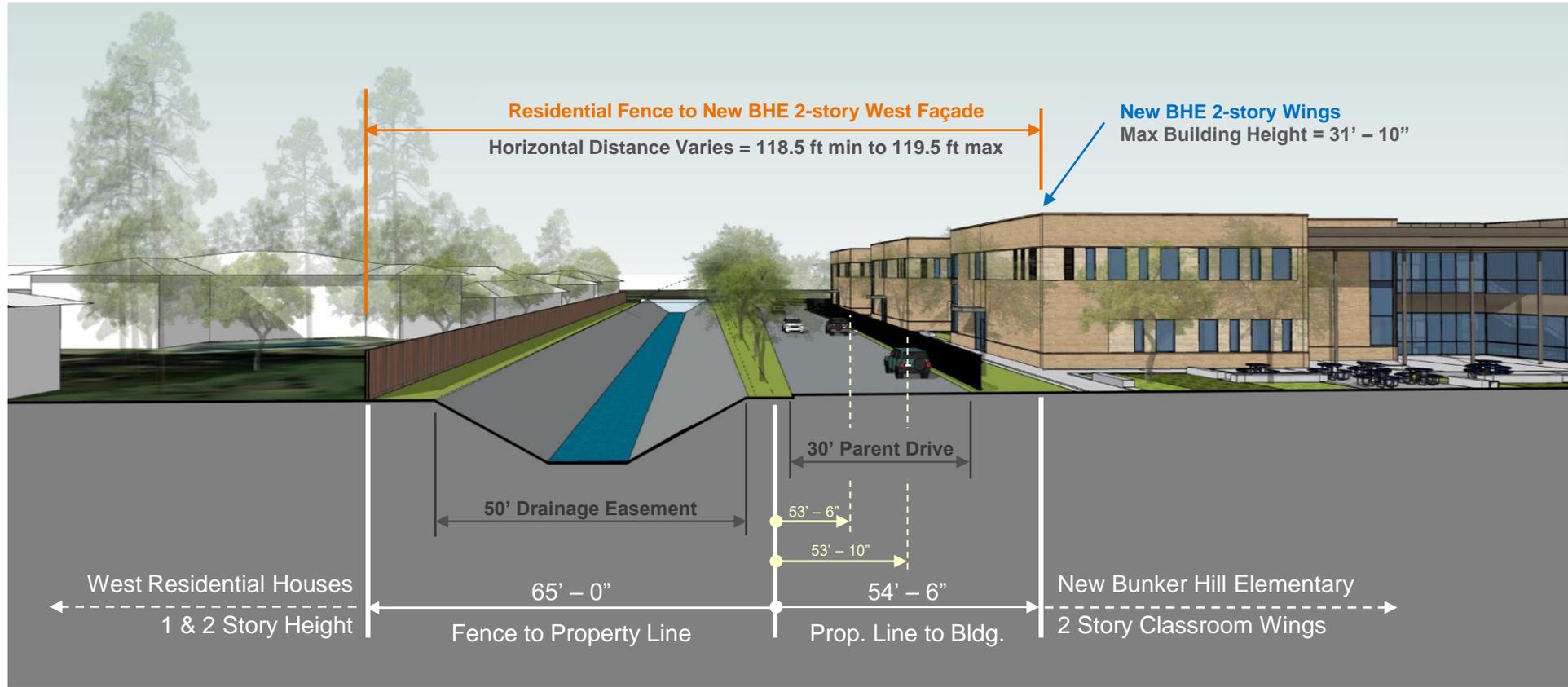
We continue to work with SBISD on design development.

This slide provides Site Plan clarification information to PAT questions from the web survey that are within PAT Charge.

Floor Plan Clarification on classroom quantity + location:

- **Demographics:** The District has conducted a 2020 District wide Demographic Study and BHE future enrollment predictions can be accommodated within the number of classrooms in the design.
- **Classroom Quantity:** The design provides one extra classroom than originally planned (32 + 1 flex classroom) as a result of the building design layout. This provides grade level swing space and will also accommodate any future enrollment growth.
- **Grade Level Swings:** The design provides flexibility for grade level classrooms as student enrollment adjusts over time.
 - a. Enrollment changes impacting the number of grade level classrooms can shift between wings on the same floor.
 - b. If K-2nd grade classroom quantity needed exceeds the quantity on floor 1, a 2nd grade classroom can be located on floor 2 near designated stairway for 2nd Grade students use.

PAT Information Update: BHE Neighborhood Site Section



Site Section Diagram illustrates site context critical dimensions of new BHE in relation to the west neighbors:

Horizontal Distance: Ranges from 118.5 to 119.5 ft at the new BHE 2-story Classroom Wing

- 65' - 0" Total horizontal distance from Residential Fence to west BHE Property Line includes the 50ft drainage easement
- Horizontal distance of 2-story portion New BHE west facade varies in its location from west BHE property line.
- West Residential Houses vary in horizontal location from each respective fence that borders the drainage easement.

Vertical Building Height: Maximum Building Height of 31' - 10" from first floor level to top of new 2-story portion of the new BHE Building.

- West Residential Houses vary in height (1 & 2-story).

Preliminary Exterior 3D Views

Building Shape / Forms + Exterior Finish Materials shown in the following 3D images communicate the proposed exterior expression of the new BHE design.

You will see how the **proposed exterior building materials** help create a new facility that **compliments** and fits into the surrounding **neighborhood context**.

Brick colors allow the building to **blend into a natural park like campus** setting.

Wood tone under the canopy and overhangs **with the slender columns evoke the image of trees**.

Use of **glass** provides **views and reflects** the trees and sky.

The organic shape of the **Library embraces the Learning Plaza** anchored by the Art + Science.

Decisions made and direction set from PAT Mtgs #1 thru #3 together influenced the Exterior Development of the Design you are about to see in the next group of slides.

Bunker Hill ES Design

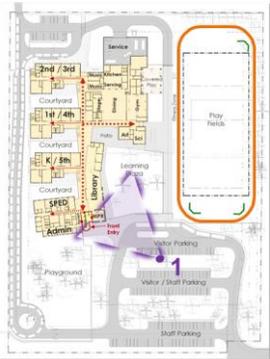
Preliminary 3D Exterior Views

1 View of Front of School

Students, Staff and Visitors will approach the school has a similar feeling as the context of the wooded neighborhood.

The design images shown have been developed based on PAT Committee input and feedback:

- **Scale/Height** of front entry blends with the **neighborhood** context.
- Glass entry vestibule at **front entry** is clearly defined extending an **inviting welcome** to visitors.
- Site design maintains a **park like setting** by preserving the **existing trees** that will be a feature of the Learning Plaza that embraces the new building.



Bunker Hill ES Design

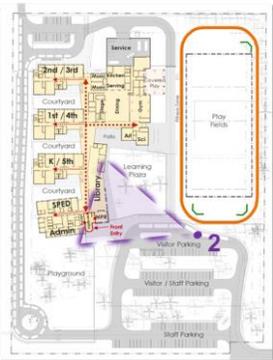
Preliminary 3D Exterior Views

2 View from Bus Drop-off

The canopy wood tone soffit provides cover from the elements as you approach the building entry along the path adjacent to the Learning Plaza and Library.

The design images shown have been developed based on PAT Committee input and feedback:

- The **building height** steps up in scale from the 1-story front entry to the 2-story portion set back from the main pedestrian path.
- The new school has a parklike setting with open **green space and landscape** in Learning Plaza.



Bunker Hill ES Design

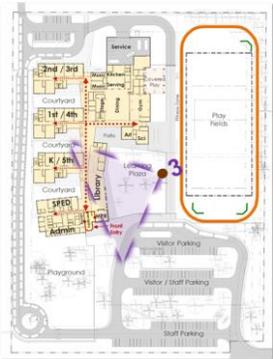
Preliminary 3D Exterior Views

3 View of East Bldg. Facade

This view we are inside the Learning Plaza looking back towards the Library + Front entry.

The design images shown have been developed based on PAT Committee input and feedback:

- The use of materials and window design of the Library sets it apart from the other building portions. The **Library** is the **academic heart** and central **architectural feature**.
- The **Learning Plaza** has a mix of hardscape paths and seating in the natural park setting providing **opportunities for outdoor learning**.



Bunker Hill ES Design

Preliminary 3D Exterior Views

4 View of Learning Plaza

The outdoor patio is nestled between the Art/Science building and Library with visual connection to Dining Commons + Flex space.

The design images shown have been developed based on PAT Committee input and feedback:

- The large patio area provides an area for **outdoor learning** and **outdoor dining** space for **parents** when they visit their **children** and **community** activities on the campus.
- The canopy **filters sunlight** through the baffles similarly to how light would be diffused through a tree canopy and provides **covered shade** for **outdoor learning** activities.



Bunker Hill ES Design

Preliminary 3D Exterior Views

5 View at Gym Entrance

The Art/Science building in the center of this view is embraced by the Library on the left and the Gym on the right.

The design images shown have been developed based on PAT Committee input and feedback:

- **Art and Science** has its own **dedicated outdoor patio** area with direct access to Learning Plaza.
- The students have direct access to the **Covered Play** from the **Gym**. There is an **extended activity zone** for bicycle racks, fitness and recreation activities.



Bunker Hill ES Design

Preliminary 3D Exterior Views

6 View at Parent Drop-off

Parent drivers enter the site and queue in the stacking lane campus connector drive with drop-off zone along the canopy leading to the building entry.

The design images shown have been developed based on PAT Committee input and feedback:

- The **parent drop-off entrance** has smaller **entry plaza** and **landscaping** elements like the front entry.
- There is **pedestrian plaza** provides **space for students in cars** independent of the **student walkers** and **bike riders** that arrive from the neighborhood.



Bunker Hill ES Design

Preliminary 3D Exterior Views

7 View at Courtyard

This view is from within the Learning Community courtyard looking eastward from just outside the main circulation spine.

The design images shown have been developed based on PAT Committee input and feedback:

- Covered **outdoor learning** area can house multiple groups for **individual study + collaboration**.
- The **courtyards** have a combination of hardscape and landscape supporting a **variety of activities** (learning, socializing, connecting with nature).
- The windows provide **natural daylight** to the **classrooms** from the north and south side of the building.



The preliminary 3D views presented communicates the new BHE exterior design concept: The Bunker Hill ES design creates a welcoming and inviting approach to the school set in a familiar wooded neighborhood. The exterior design incorporates building shapes and color tones reflecting the surrounding natural environment resulting in an engaging 21st century learning environment.



Preliminary Interior 3D Views

Building Shape / Forms + Interior Finish Materials shown in the following 3D images communicate the proposed interior expression of the new BHE design.

You will see how the **proposed interior finish materials** help create a new facility that **compliments and responds** to the exterior expression.

Exterior brick and stone walls **continue into the interior spaces to connect** the students and staff **with the outdoor learning environments.**

The character of the wood tones and color palette recall **organic patterns and textures of sky, water, plants and earth.**

Use of glass provides **natural daylight to the interior and views of the outdoor** park-like setting.

The playful **design of the feature wall** in the main corridor **engages the students** with the Library at the heart of the school.

Decisions made and direction set from PAT Mtgs #1 thru #3 together influenced the Interior Development of the Design you are about to see in the next group of slides.

Bunker Hill ES Design

Preliminary 3D Interior Views

1 Lobby / Main Corridor

The School Lobby and Main Corridor are filled with colors found in nature organized in both orthogonal and organic patterns.

The design images shown have been developed based on PAT Committee input and feedback:

- The **artwork** over the existing school main entry is reimagined here against **BHE's school color** to reinforce the **identity** and provide **familiarity** in the new environment.
- The **colorful feature wall** provides an immediate **visual connection** to the Library. The interior **glazing provides views** through the **Library** to the **Learning Plaza**.



Bunker Hill ES Design

Preliminary 3D Interior Views

2 Library: View to Exterior

The connection to the outdoor Learning Plaza is heightened by the large glass view and exterior stone wall with reading nooks.

The design images shown have been developed based on PAT Committee input and feedback:

- **Windows** at exterior wall provide direct views to the outdoors and fills the Library with natural daylight.
- **Accent lighting** helps to define the genius bar and circulation desk as unique destinations within the library.
- The **warm colors** of wood and green accompanied with the textures and patterns of the interior finish materials reflect the natural park like setting of the Learning Plaza.



Bunker Hill ES Design

Preliminary 3D Interior Views

3 Library: View to Interior

The full-height feature wall provides an engaging and functional centerpiece to the library flanked by views to the Learning Communities.

The design images shown have been developed based on PAT Committee input and feedback:

- The **flexible furniture** and **genius bars** located adjacent to the circulation desk provide a **variety of individual + group spaces** within the Library.
- The large amount of **glazing provides interior views** to the two-story learning community and the learning courtyard beyond, **connecting the library** with the other educational environments.



Bunker Hill ES Design

Preliminary 3D Interior Views

4 Learning Community

Students, teachers and parents are invited to flex zones and collaborative areas along the main circulation path.

The design images shown have been developed based on PAT Committee input and feedback:

- Each **learning community** is identified by a **unique color for wayfinding**. **Vibrant colors** mimic those found in nature, plants and animals.
- **Parents** and their **students** can share lunch during inclement weather at the **collaboration zone** near the dining commons. This space is defined by **earth tones** with **organic textures and patterns** in the flooring and globe shaped **accent lighting**.



Bunker Hill ES Design

Preliminary 3D Interior Views

5 Dining Commons + Stage

The Dining Commons has a direct connection to the Learning Plaza. This large multi-purpose area provides ample space for student dining and large group assembly.

The design images shown have been developed based on PAT Committee input and feedback:

- The **angled form** of the library seen through the **two-story glazing** is traced into the cafeteria **angular shaped ceiling**, visually connecting the indoor / outdoor spaces.
- **Angled fabric wrapped panels** surround the stage to reinforce the school's geometry and **provide acoustic softening** in the large open assembly space.





BUNKER HILL
ELEMENTARY SCHOOL



Thank you to the PAT Committee team members for your engagement!
Your input and feedback has led us to this wonderful proposed design for the new Bunker Hill Elementary School.

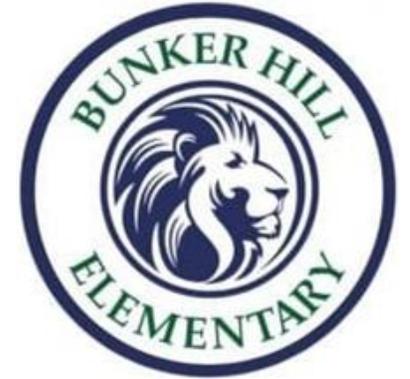
Thank You.....

WELCOME TO BUNKER HILL ELEMENTARY!

We are committed to providing progressive, meaningful instruction through communication, collaboration and congruent teaching in a caring environment.

.....Questions?

Bunker Hill Elementary School
Spring Branch ISD



Bunker Hill ES Replacement SD/DD Recommendation

June 8, 2020

