



HEMPFIELD HIGH SCHOOL PROJECT

October 28, 2025



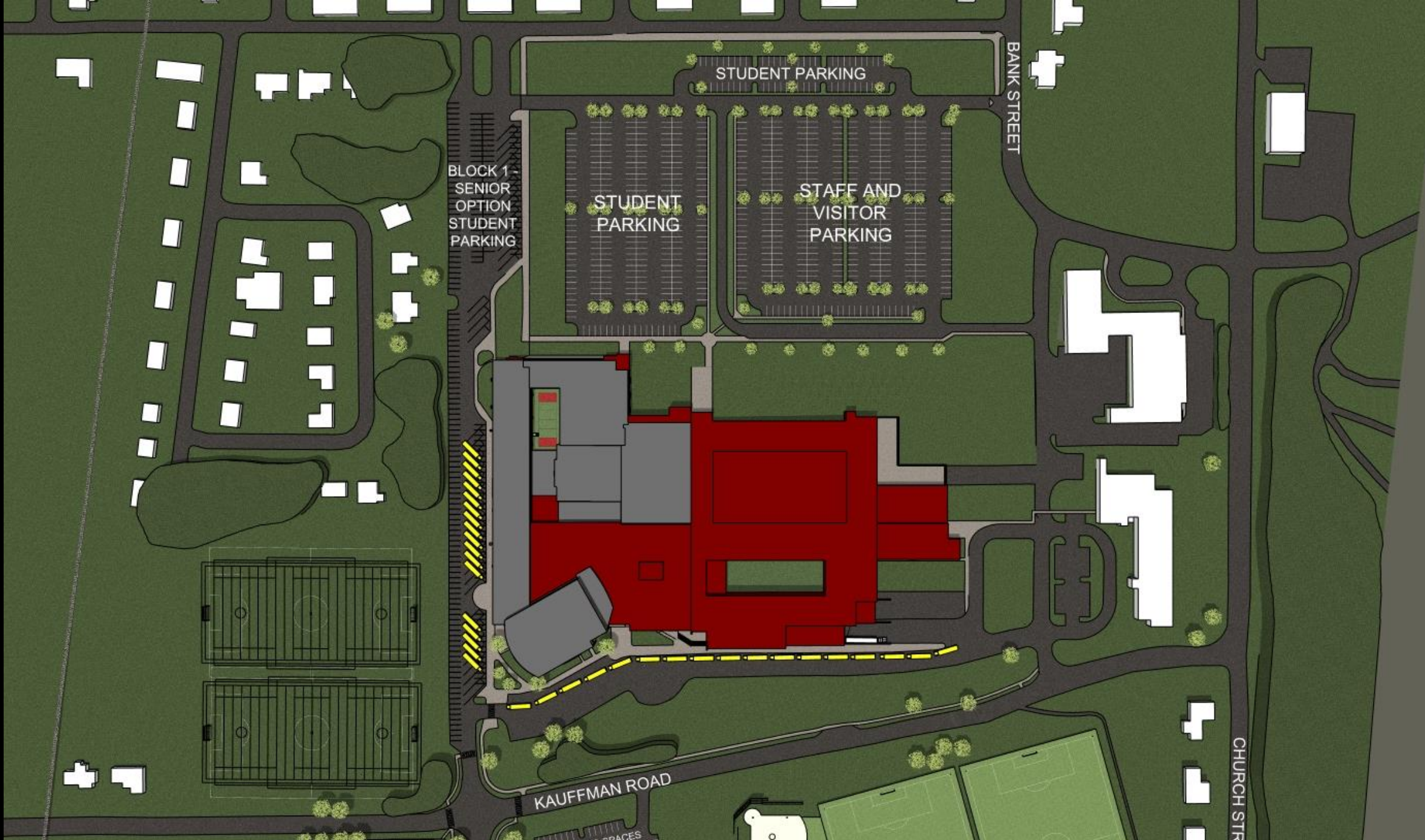
MOORE
ENGINEERING COMPANY





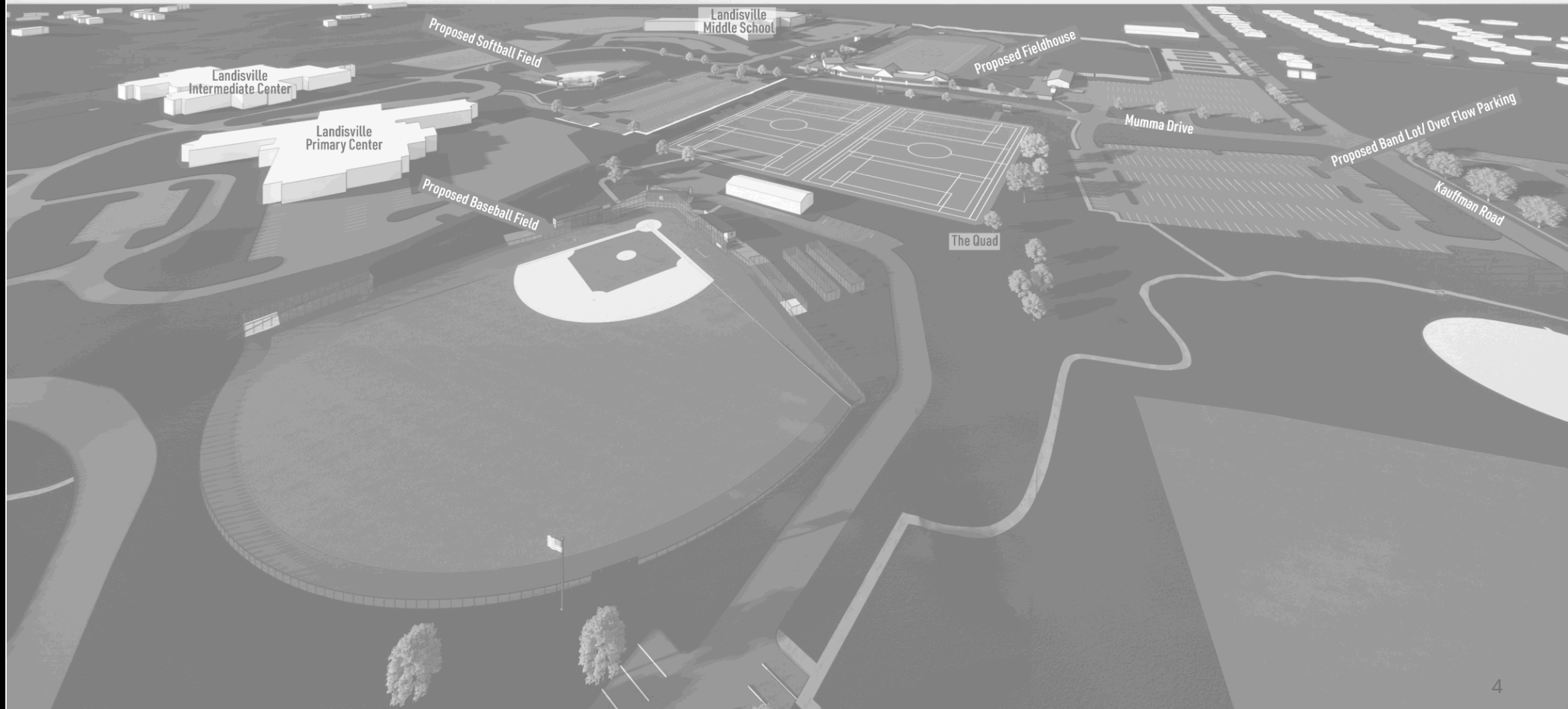
Steps Taken

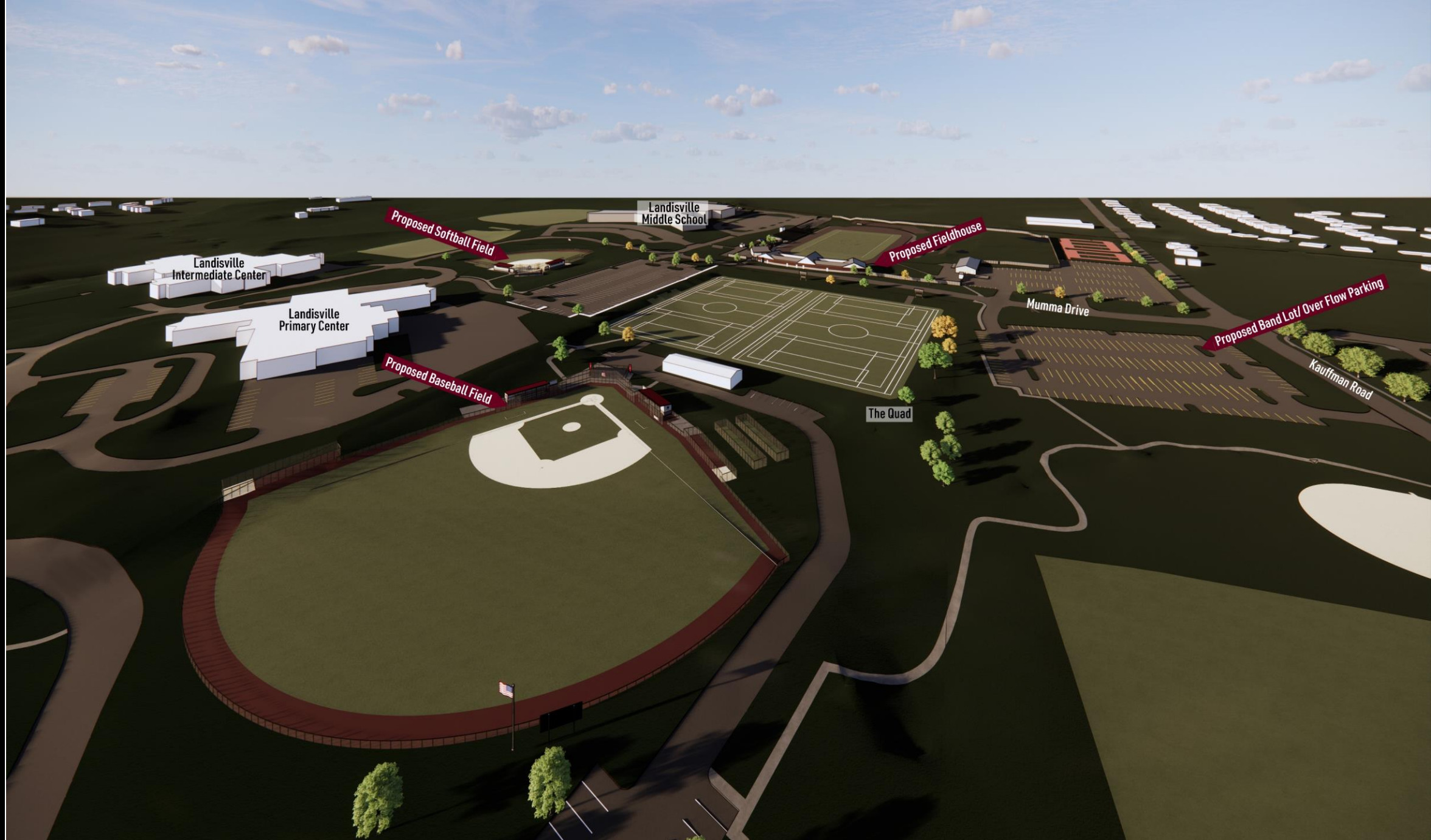
- **Bi-Weekly Design Committee**
- **Land Development Process**
- **Building Information Models**
 - Existing Structural Evaluation
- **Campus Master Planning & Campus Building Design**
 - Baseball & Softball Field Start
- **Teacher & Staff Meetings** [September]
- **Student Council Meeting** [October]
- **Build. & Grounds Member Meeting**
 - Stormwater & Structural Discussion

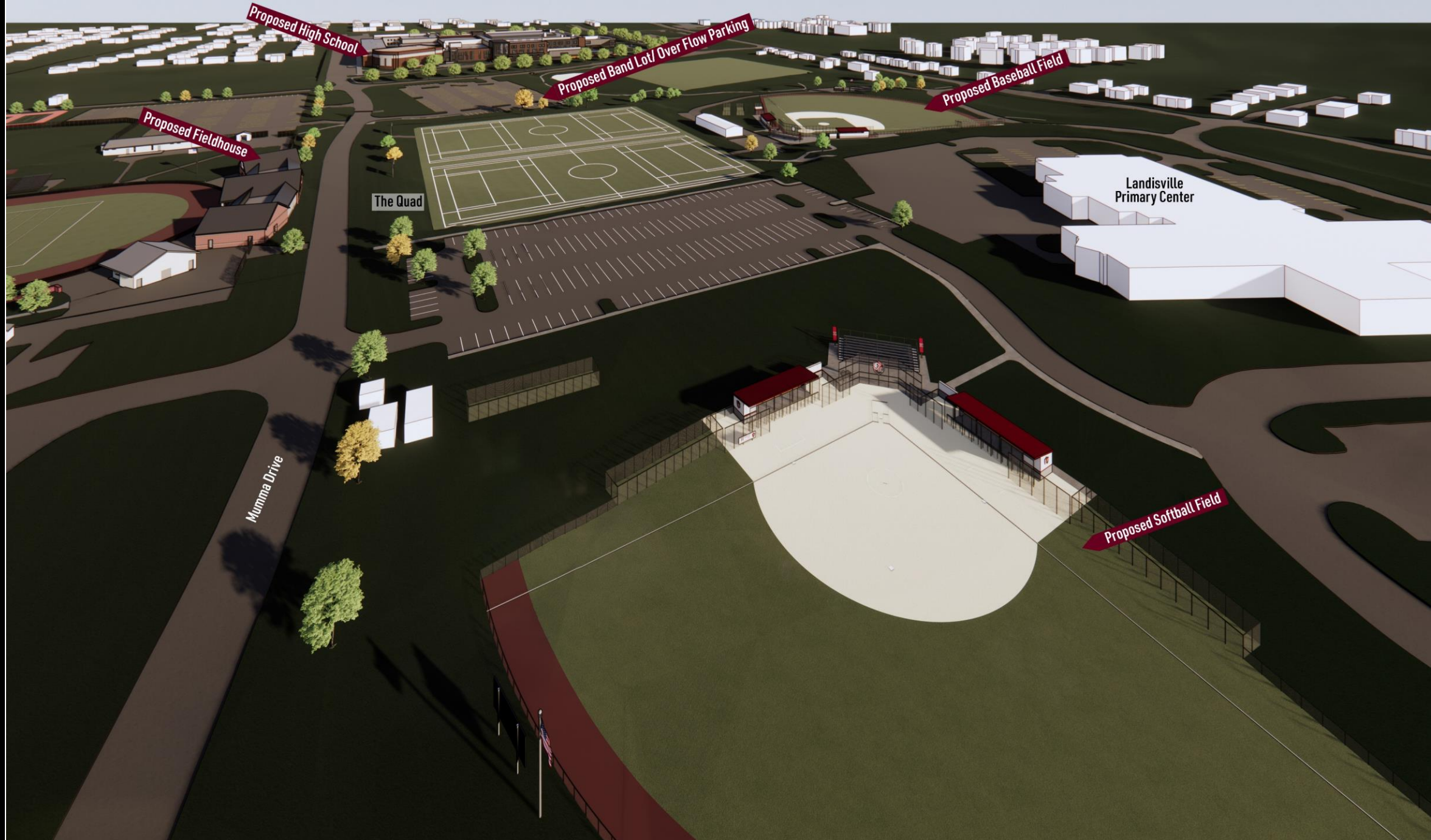


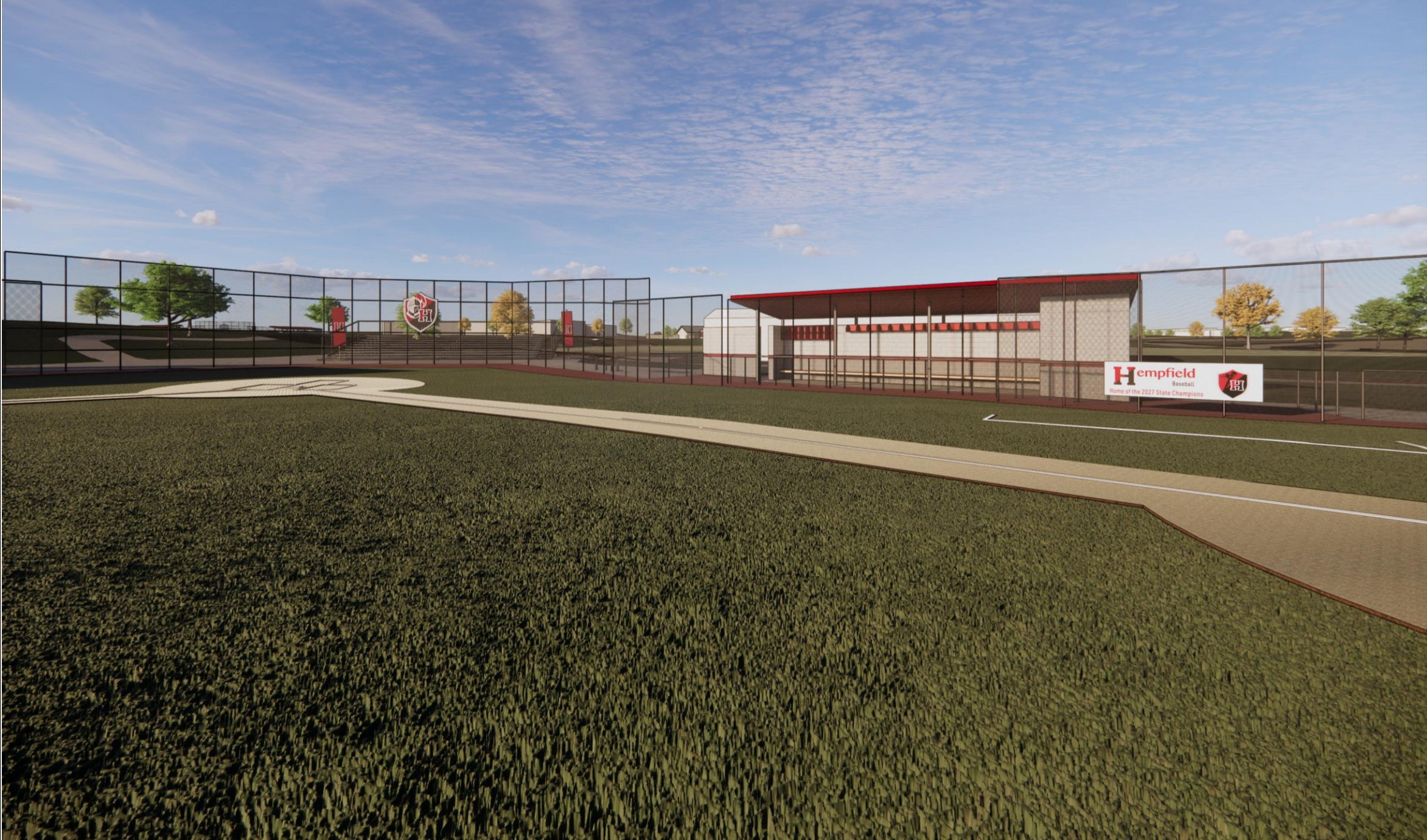
Prior to High School Project Starting...

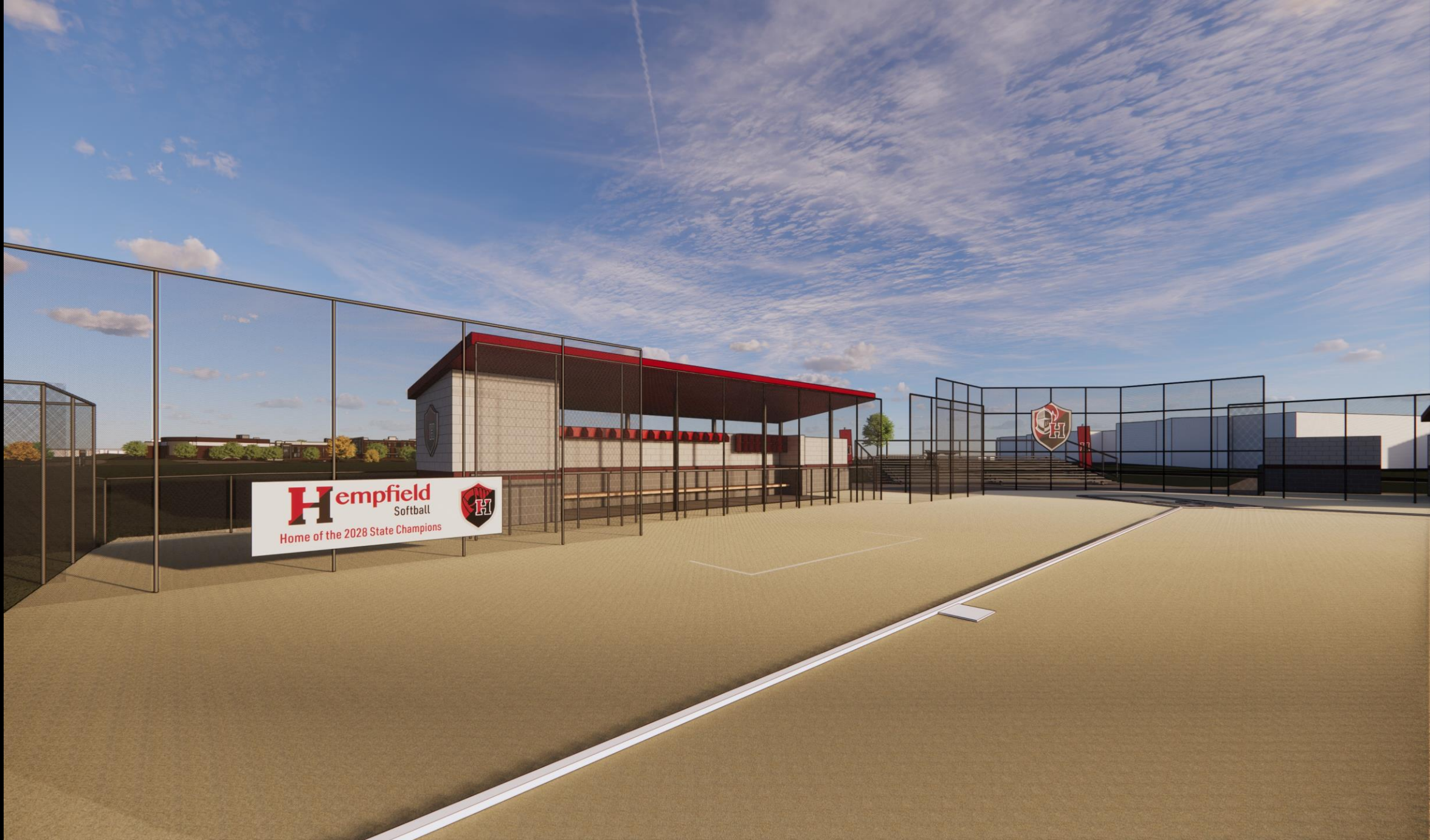
- Baseball field relocation & creation + Softball field upgrades



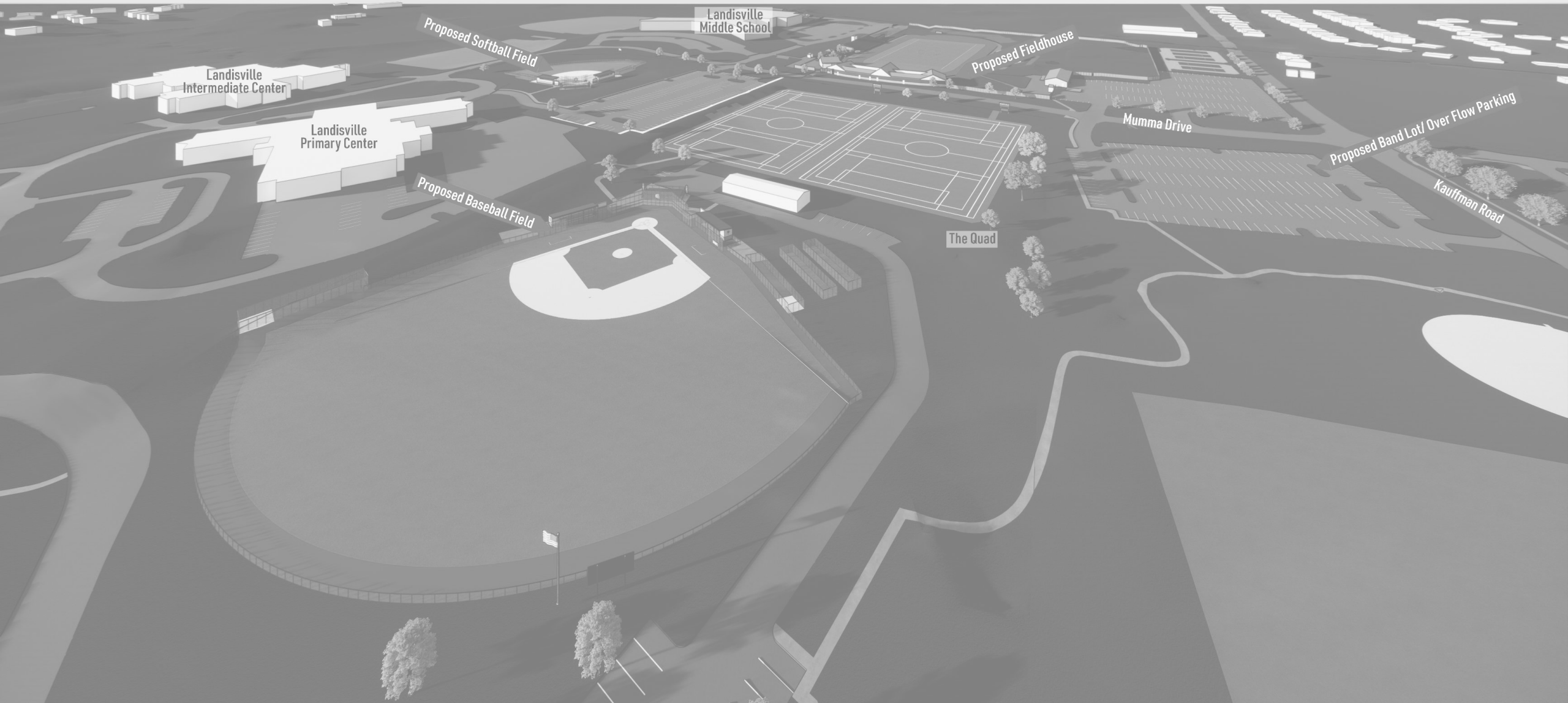


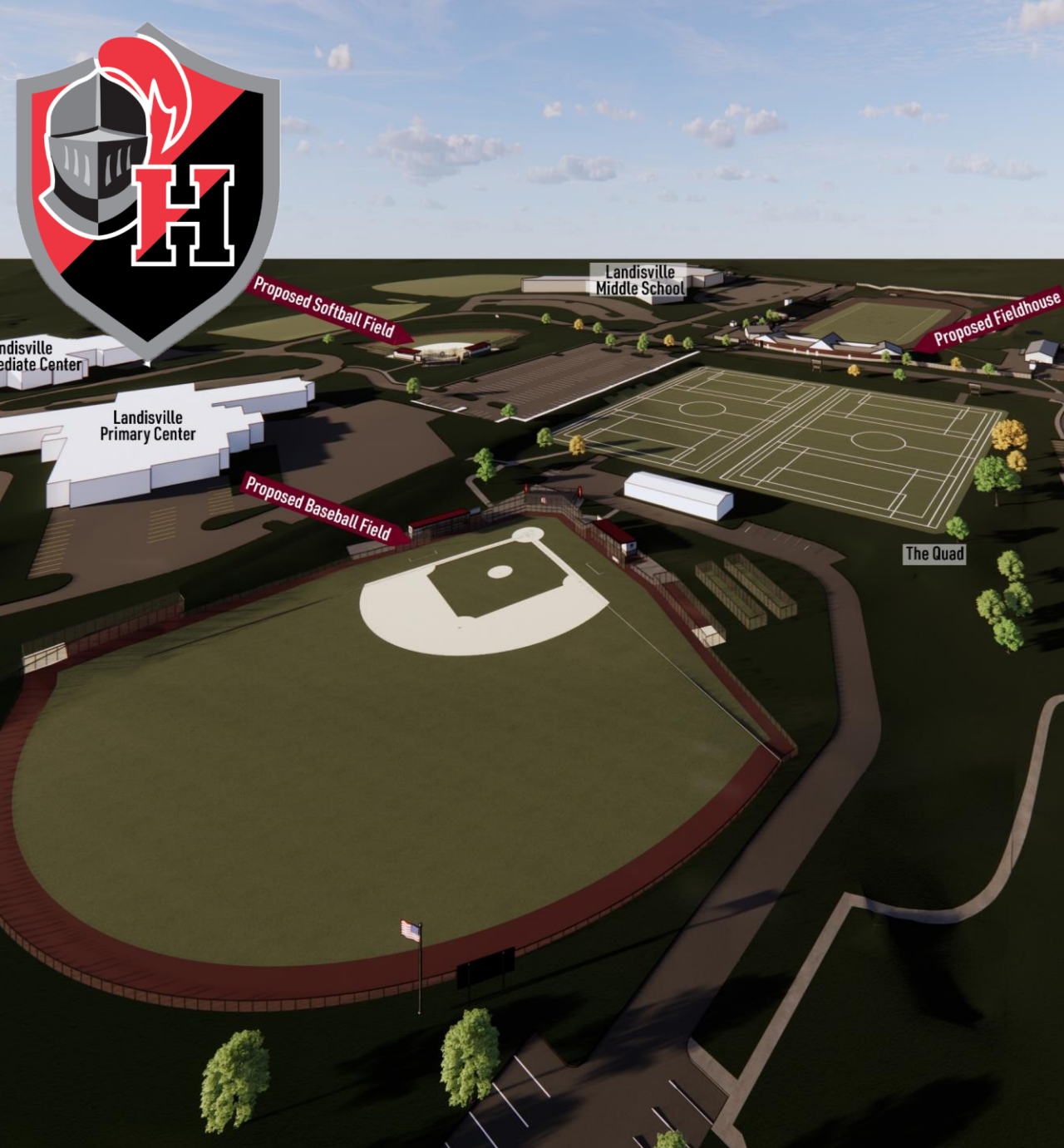






Building & Land Development





Stormwater Limitations

- Stormwater is typically managed through onsite infiltration
 - Water draining into the ground
- Site Testing at Hempfield has confirmed limited infiltration on-site
 - Which means we have 3 options
- PA Department of Environmental Protection allows for a Managed Release Concept (MRC) on sites with limited infiltration



Surface Facility

- Open Areas Only
- Exposed to Open Air
- Least Expensive



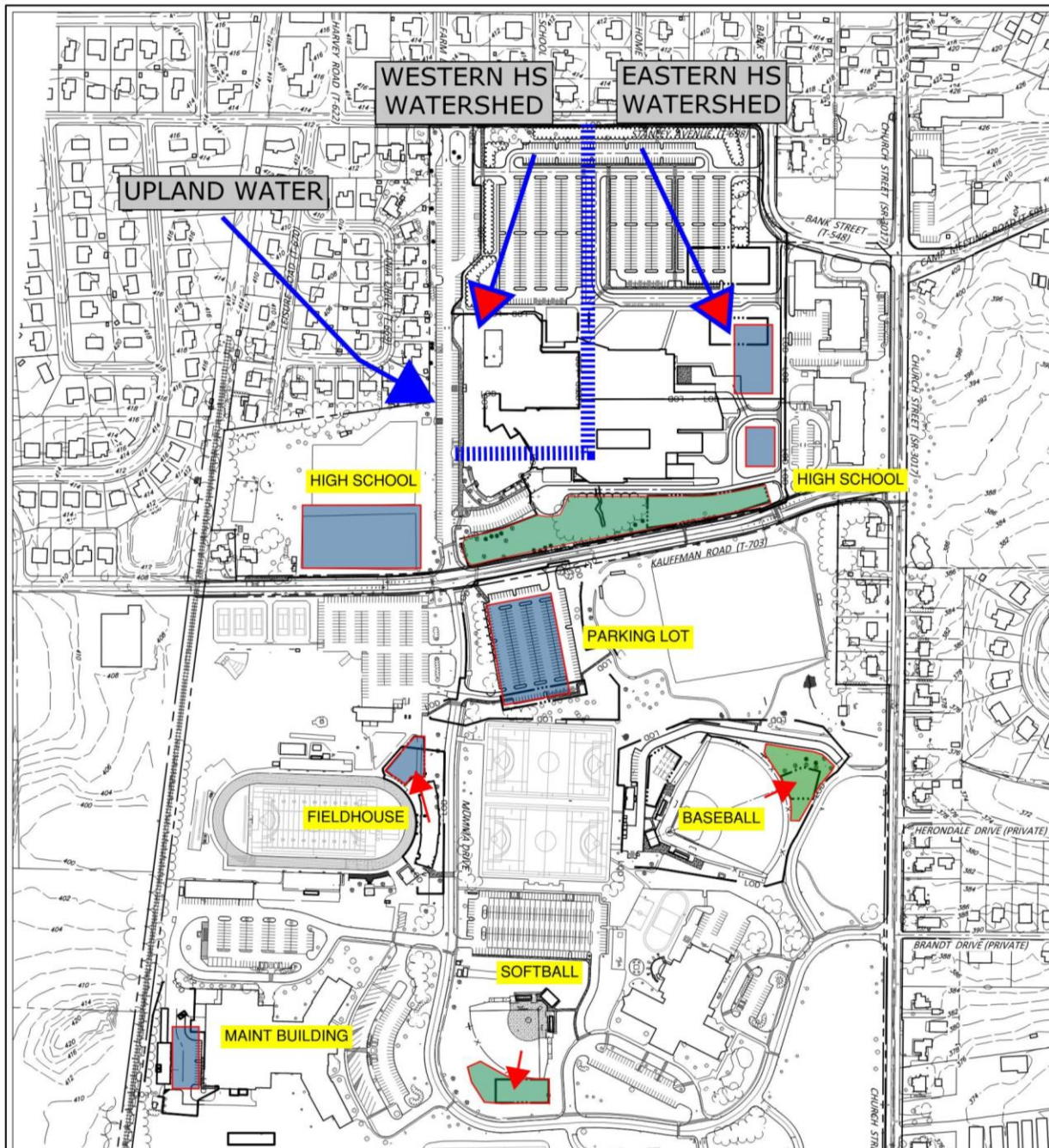
Subsurface Facility **Crate System / "Stormbrixx"**

- Utilized under Green Space / Parking Lots with enough grading / earth cover
- More Expensive than Surface Facility
- Less Expensive than Concrete Subsurface Facility



Subsurface Facility **Concrete / "Storm trap"**

- Utilized under Parking Lots / Heavy Loading Areas
- Most Expensive
- More cost effective if basins are greater than 4 feet.



Stormwater Limitations

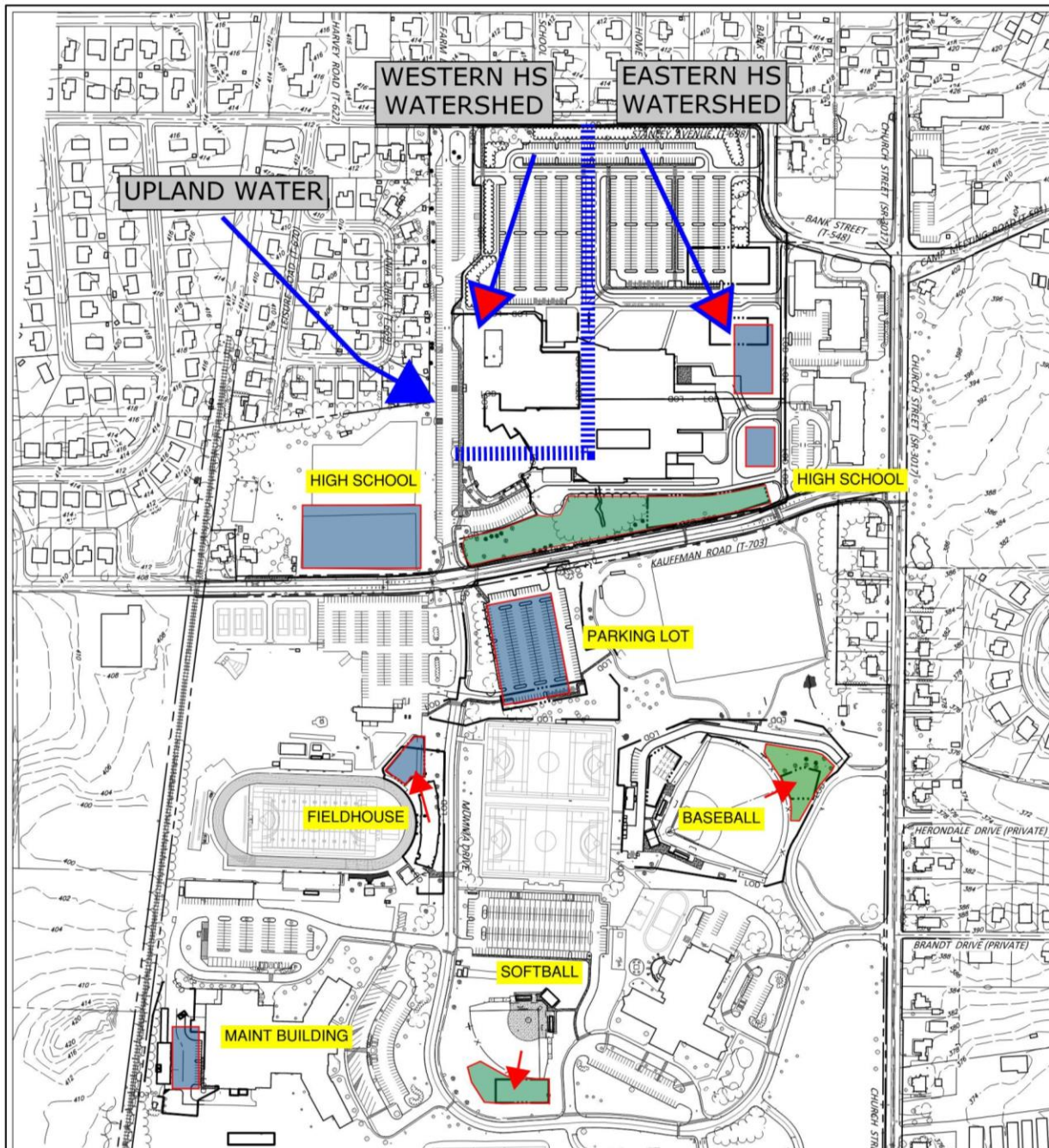
- MRC's will hold stormwater underground and slowly release
- MRC's require additional measures to function, which increase cost
- Combined approach
 - Surface Infiltration Facilities
 - Underground MRC's to maximize land use

LEGEND



SURFACE ATTENUATION

SUBSURFACE ATTENUATION



Next Steps

- Engineers are working to finalize plans, drawings, cost estimates, etc.
- Stormwater design is evolving daily
 - Maintenance Building Option for some surface attenuation
 - Basin Depth, potential for cost effective concrete
- Goal for completion: 11/30/25

LEGEND



SURFACE ATTENUATION

Option 1



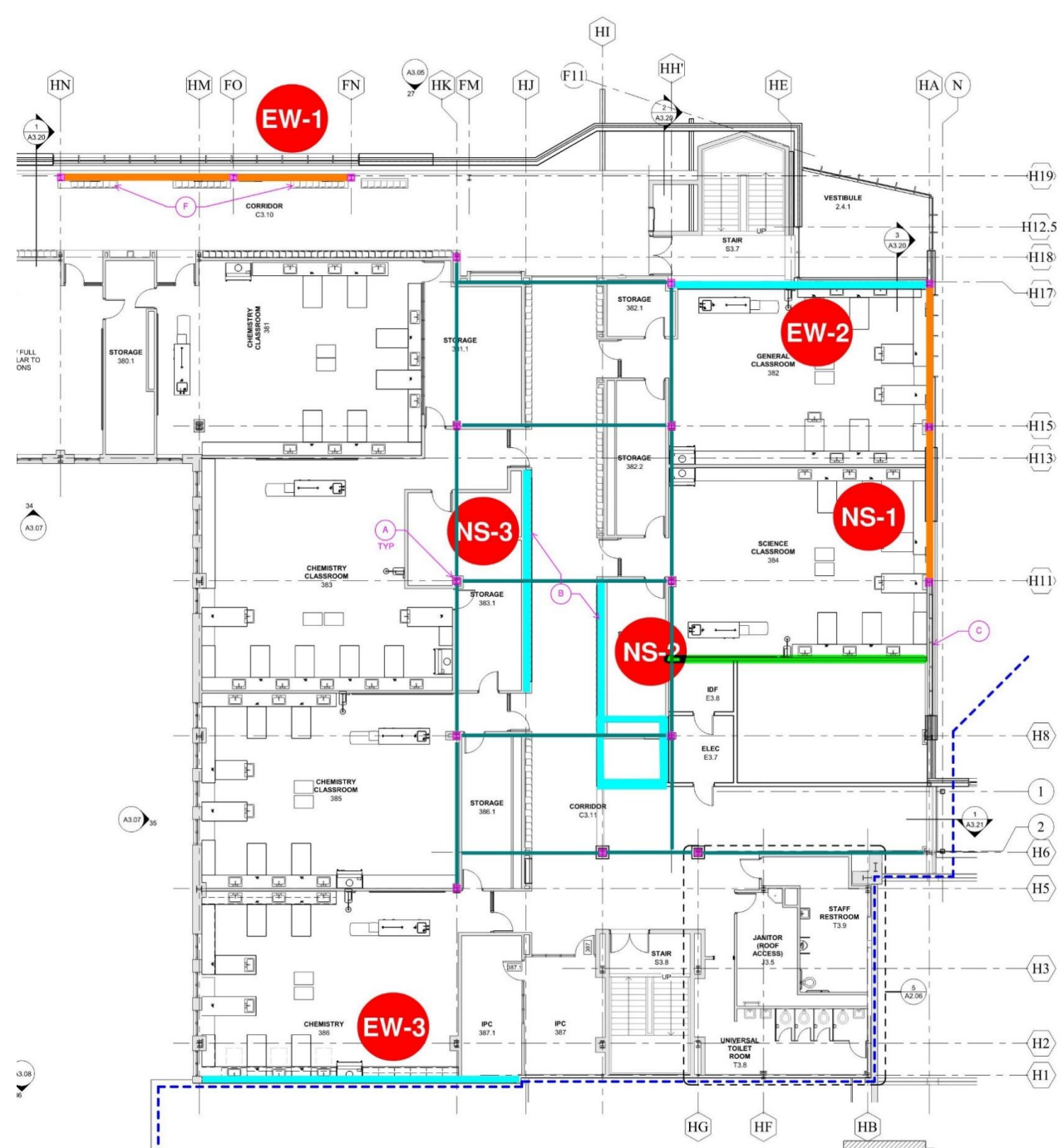
SUBSURFACE ATTENUATION

Option 2



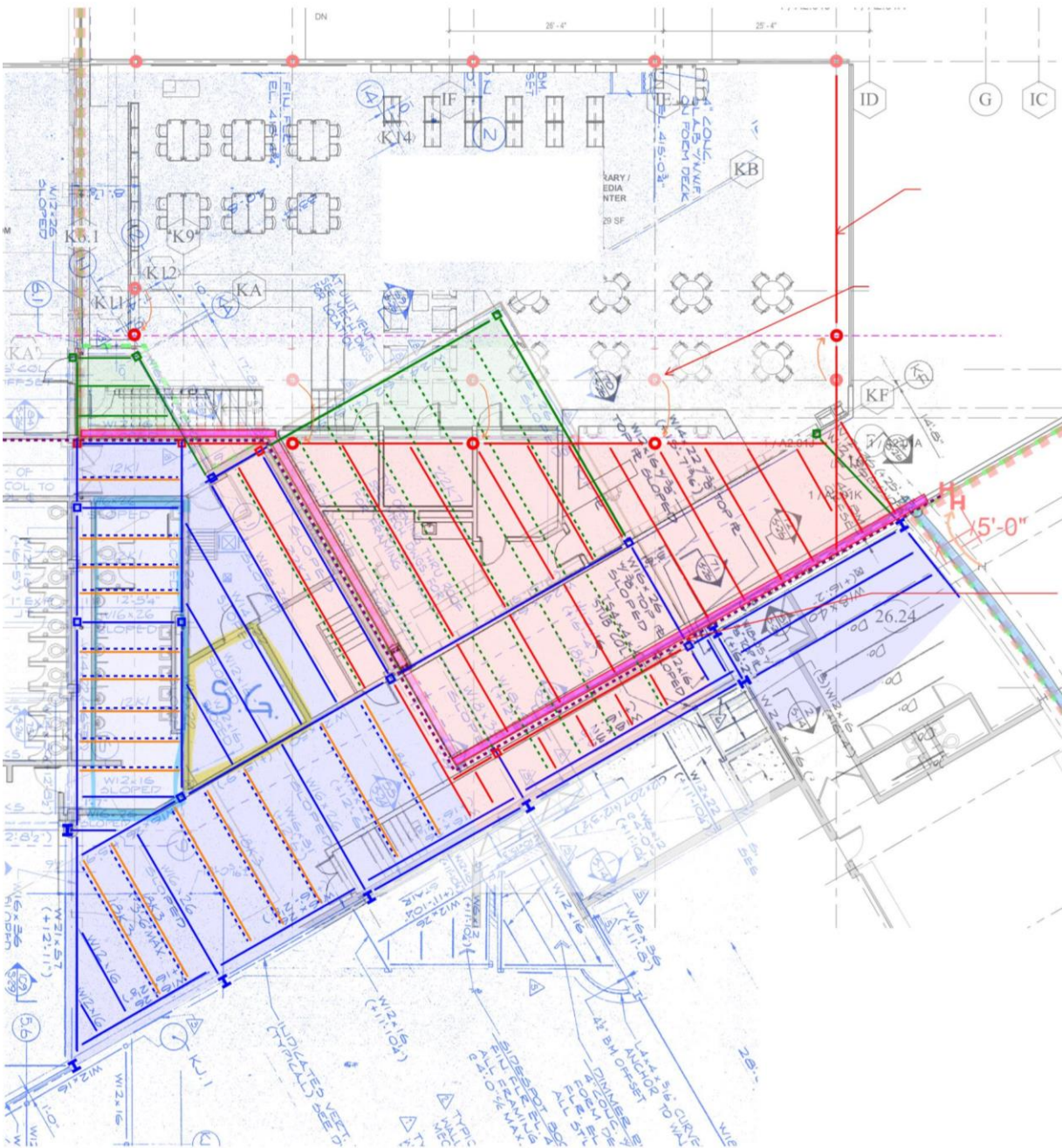
Structural Challenges

- Soil Conditions
- Northern End of Buchanan (Science Wing)
- Buchanan/PAC roof that will meet the new roof



Existing Structure Reinforcing

- Due to removal of Franklin Building and existing building conditions existing Buchanan Building Science Lab Wing must be reinforced
- Reinforcing includes a combined strategy of Shear Walls (Blue) inside the building and Braced Frames (Orange) outside of the building

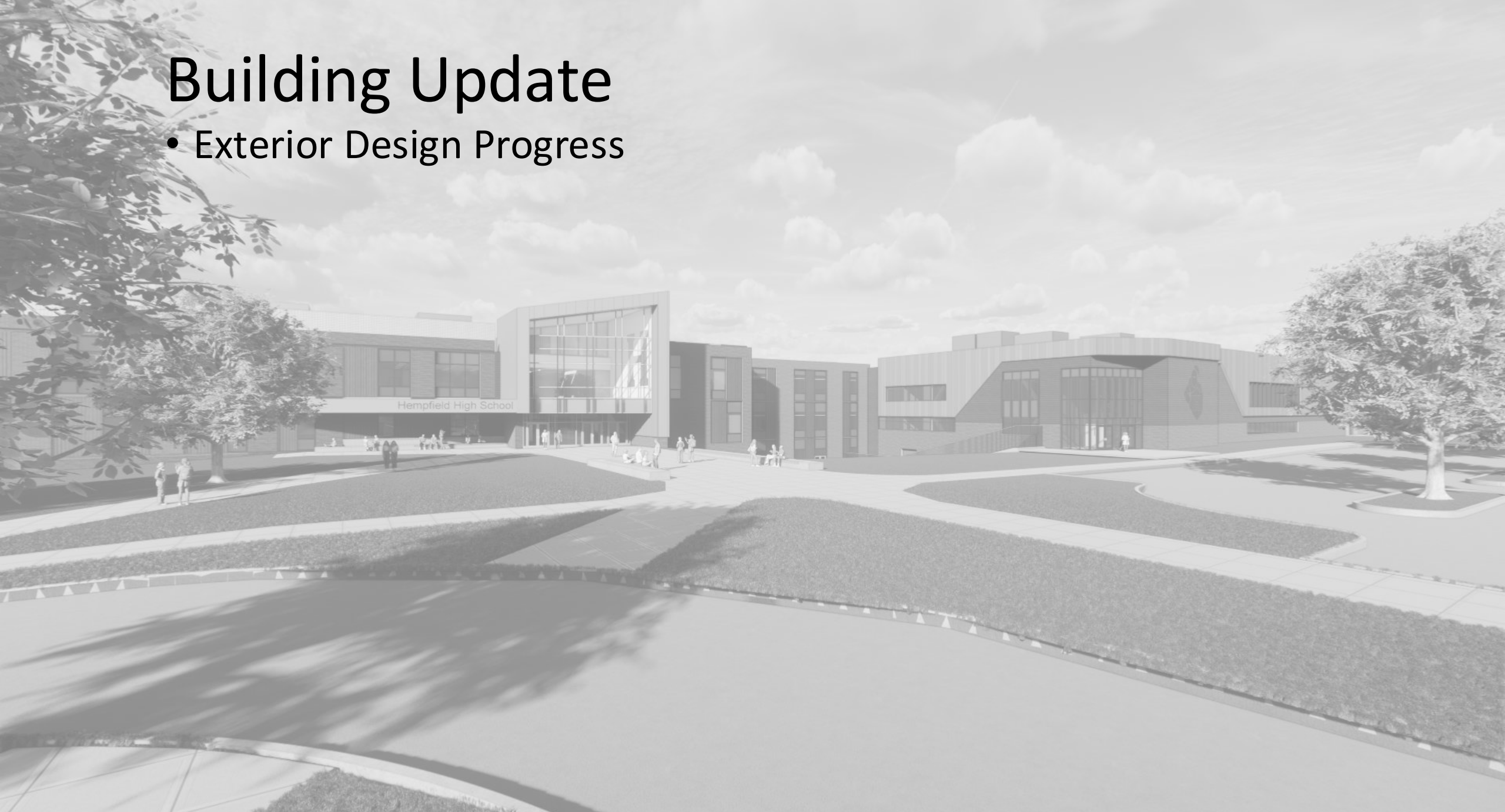


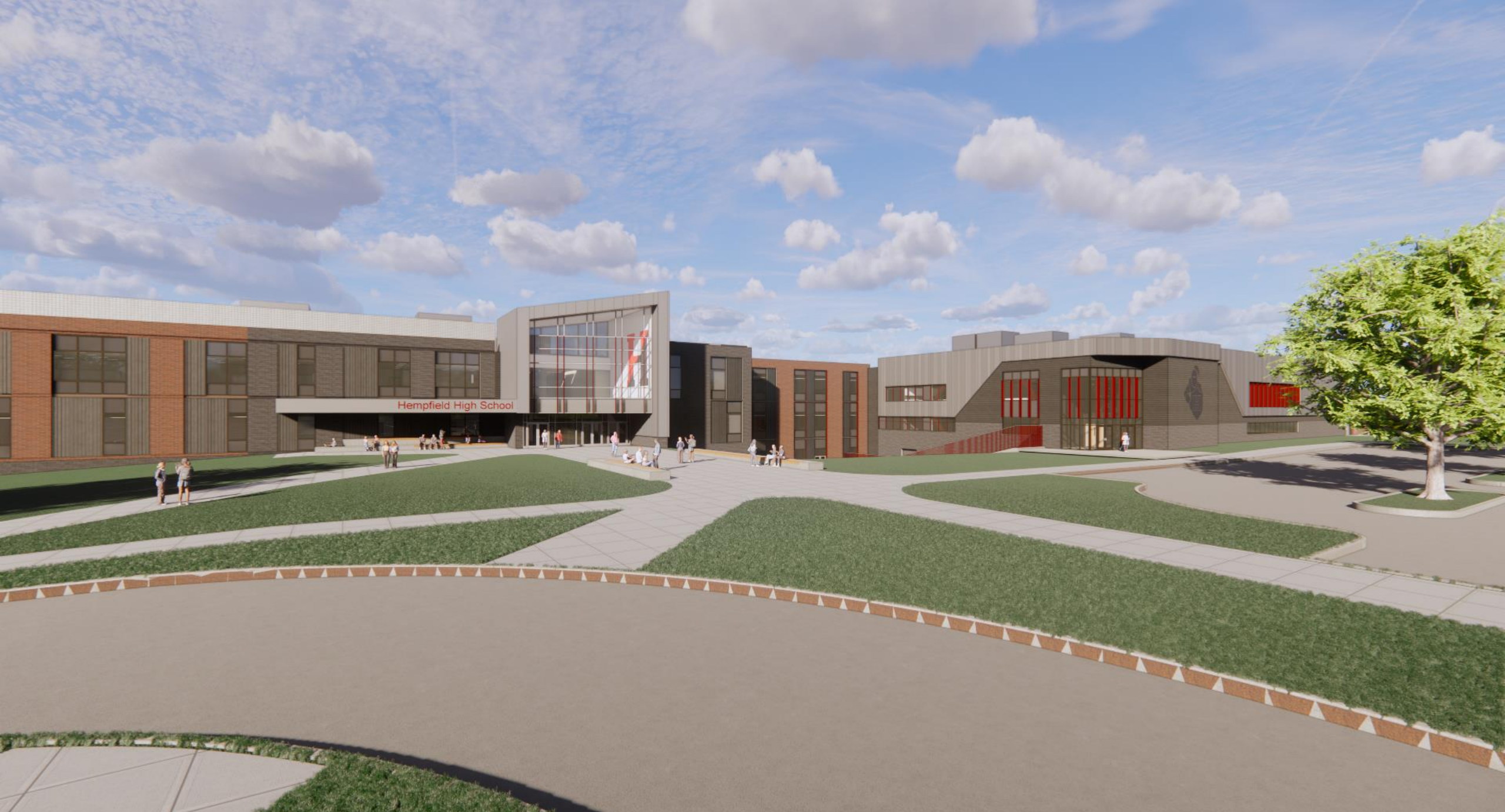
Existing Structure Reinforcing

- Existing roofs to remain adjacent to the Preforming Arts Center to be reinforced due to construction of the new addition and current building codes.
- Existing Structure to Remain (Blue)
- Demolish Existing Structure (Green)
- New Construction (Red)
- Install Additional Joists (Orange)

Building Update

- Exterior Design Progress















Building Update

- Interior Design Progress







TECH ED WOOD SHOP

- 24 STUDENTS

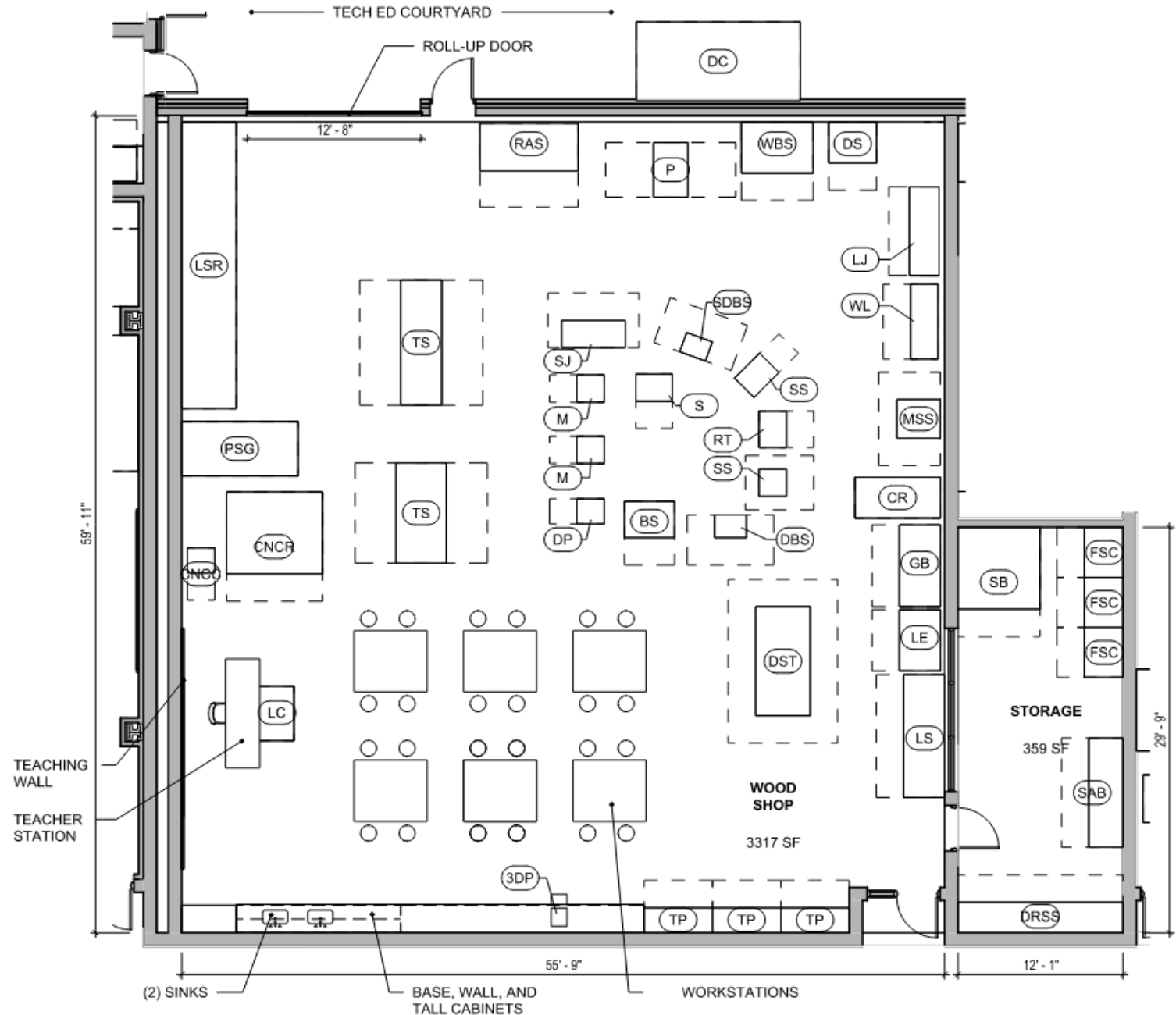
WOOD SHOP EQUIPMENT SCHEDULE		
Equipment Tag	Equipment Name	Equipment Status

NEW

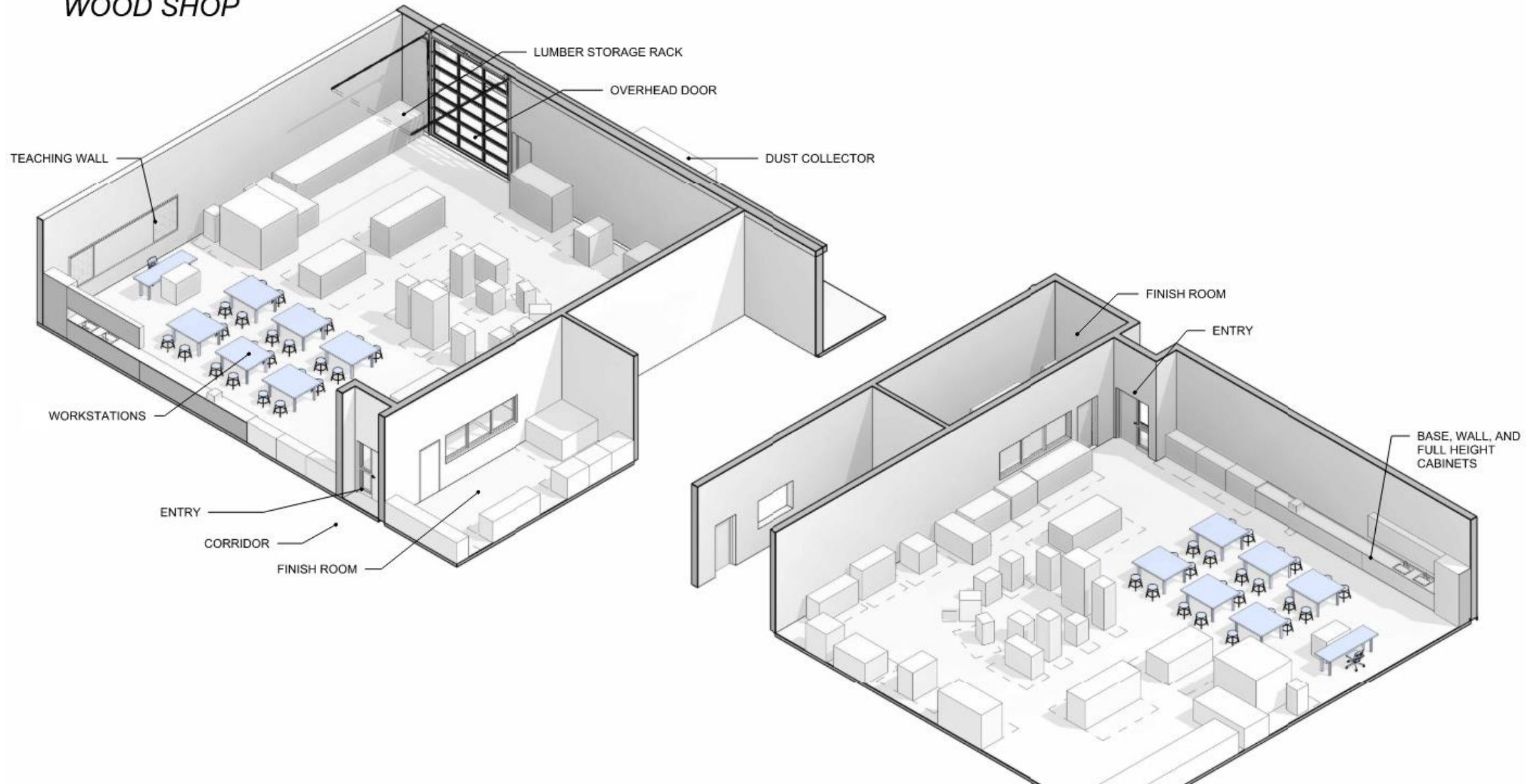
DC	DUST COLLECTOR	NEW
DST	DOWNDRAFT SANDING TABLE	NEW
FSC	FLAMMABLE STORAGE CABINET	NEW
LC	LAPTOP CART	NEW
SB	SPRAY BOOTH	NEW
WBS	25" WIDE BELT SANDER	NEW

EXISTING

3DP	3D PRINTER	EXISTING
BS	BAND SAW	EXISTING
CNCC	CNC CONTROLER	EXISTING
CNCR	CNC ROUTER	EXISTING
CR	CLAMP RACK	EXISTING
DBS	DISC/BELT SANDER	EXISTING
DP	DRILL PRESS	EXISTING
DRSS	DRYING RACK FOR SMALL PROJECTS	EXISTING
DS	DRUM SANDER	EXISTING
FSC	FLAMMABLE STORAGE CABINET	EXISTING
FSC	FLAMMABLE STORAGE CABINET	EXISTING
GB	GLUE BENCH	EXISTING
LE	LASER ENGRAVER	EXISTING
LJ	LARGE JOINTER	EXISTING
LS	ACRYLIC/LASER SUPPLIES	EXISTING
LSR	LUMBER STORAGE RACK	EXISTING
M	MORTISER	EXISTING
M	MORTISER	EXISTING
MSS	MITER SAW STATION	EXISTING
P	25" PLANER	EXISTING
PSG	PLYWOOD/SHEET GOODS STORAGE RACK	EXISTING
RAS	RADIAL ARM SAW	EXISTING
RT	ROUTER TABLE	EXISTING
S	SHAPER	EXISTING
SAB	STAIN APPLICATION BENCH	EXISTING
SDBS	SMALL DISC/BELT SANDER	EXISTING
SJ	SMALL JOINTER	EXISTING
SS	SPINDLE SANDER	EXISTING
SS	SCROLL SAW	EXISTING
TP	TOOL PANEL	EXISTING
TP	TOOL PANEL	EXISTING
TP	TOOL PANEL	EXISTING
TS	TABLE SAW	EXISTING
TS	TABLE SAW	EXISTING
WL	WOOD LATHE	EXISTING



TECH ED WOOD SHOP



Stadium & Fieldhouse

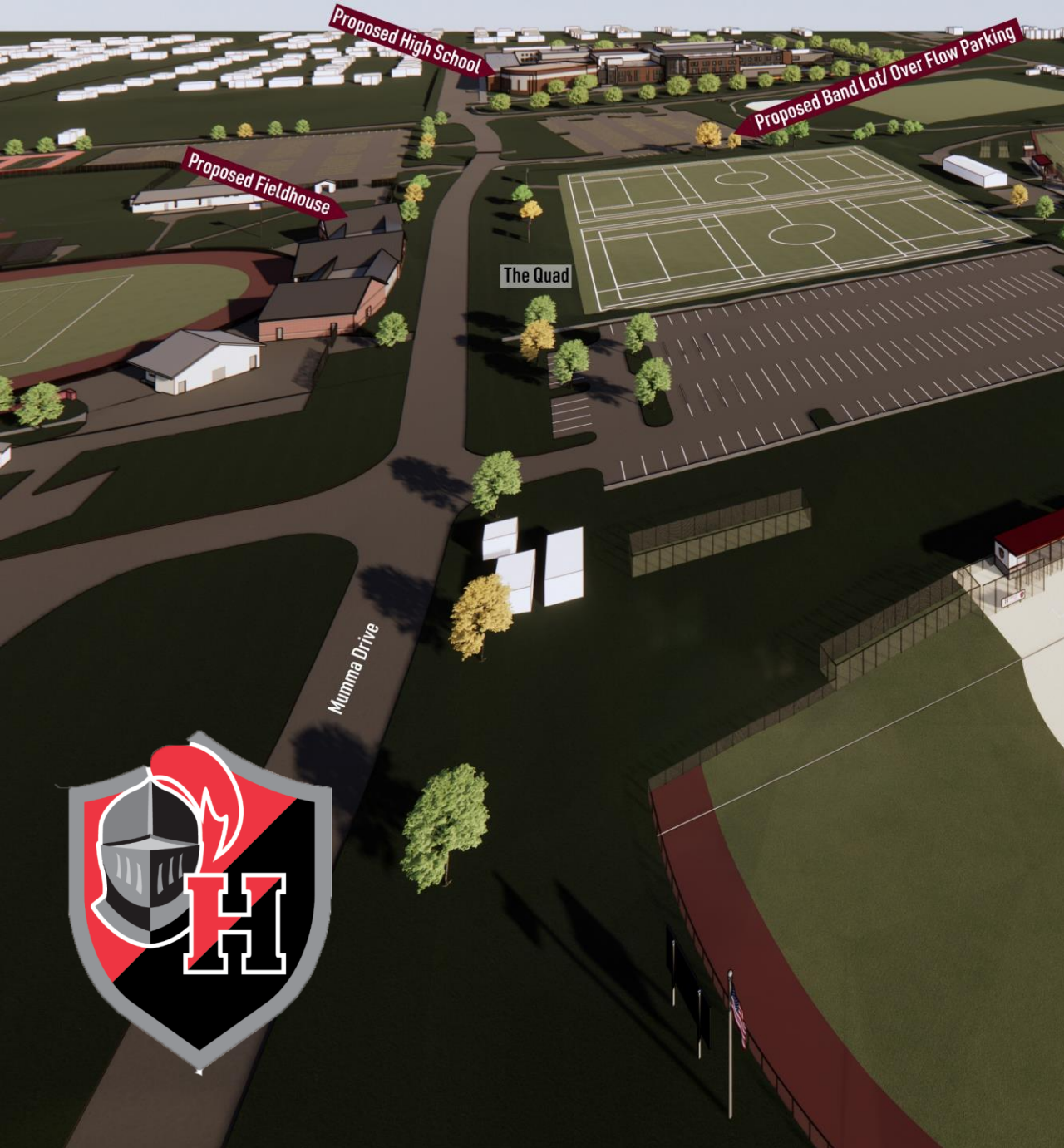


Stadium & Fieldhouse

- Reminder:

FACILITY UPDATES FEASIBILITY STUDY – TWO PATHS





Stadium & Fieldhouse

- Lighting: Getting updated quotes
 - QUAD – Upgrade is easier
 - Stadium – Update is more challenging given the age of the lighting but can use existing poles
- Sound: Getting quotes
 - Must do lights first, as the speakers will be mounted to poles
- Bleachers/Press Boxes: Getting updated quotes

Stadium & Fieldhouse

- Fieldhouse: Design Development Continues







HEMPFIELD HIGH SCHOOL RENOVATION/ADDITION PROJECT

HEMPFIELD SCHOOL DISTRICT

ACTION	2025	2026	2027	2028	2029	2030
Schematic Design	1/25	4/25				
Design Development	5/25	10/25				
Construction Documents	11/25	2/26				
Bidding/Contracts		3/26	5/26			
Construction: New Addition		6/26		8/28		
Occupy New Addition				* 8/28		
Construction: Buchanan Renovation				6/28	8/29	
Construction: Franklin Demo & Sitework					6/29	8/30
Project Complete						* 8/30

Schedule

- Design Development to be completed 10/31/25 - extended due to Storm Water Design
- Construction Documents to be complete 2/27/26
- Construction to start 6/1/26



Next Steps

- **Complete Design Development Documents [October/November]**
- **Community Townhall [November]**
- **Construction Starts on Fields [Nov]**
- **Prepare Cost Estimate [November]**
- **Land Development Process**
 - Submissions November 2025
- **Building Code Review [December]**
- **Pre-Purchase Equipment [Winter]**
- **Act 34 Hearing [January]**