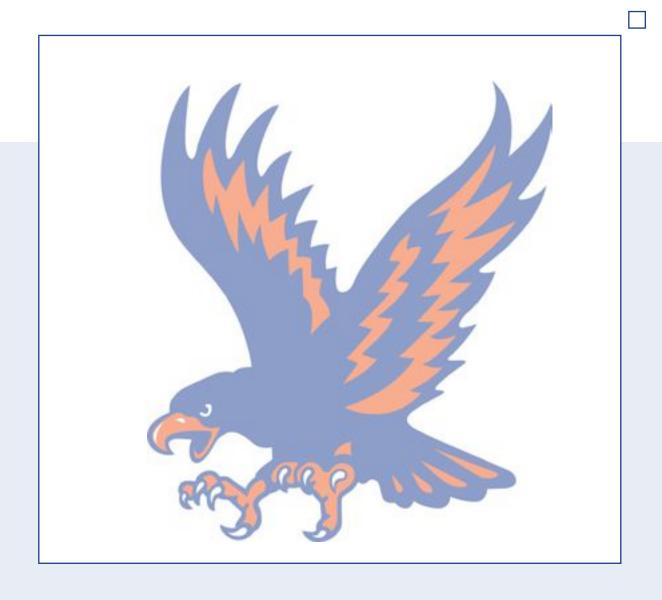
JESUP COMMUNITY SCHOOLS

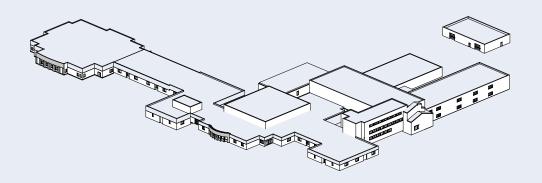


Facility Assessment Report



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JESUP COMMUNITY SCHOOLS

ADDRESS 531 Prospect Street Jesup, IA 50648

SUPERINTENDENT Nathan Marting

STUDENTS
Pre-K through 12th Grade

Executive Summary

Jesup Community School's previous master plan was completed in 2012. In 2019, district leadership and the school board proactively determined it was time to update the plan to look ahead to the next 10 years.

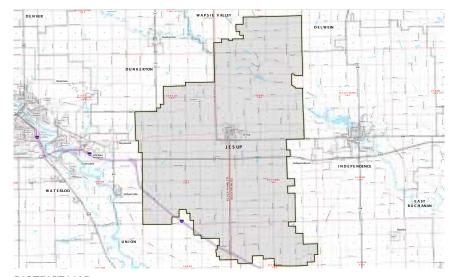
In September 2019, the district hired OPN to conduct an educational facility assessment to help the district identify needs and prioritize funding. This report was created to outline the condition of the Jesup Community Schools' academic and athletic facilities. The purpose of this report is to assist the School Board and District Administration in making informed financial and building upgrade decisions regarding the future use of district facilities.

Over the course of several months, the project team worked closely with district leadership and a Facilities Advisory Committee to develop this document. This highly collaborative process engaged users to gather information about how the current facilities are or are not working for learning and teaching in the 21st century.

The assessment focuses on identifying the deficiencies based on currently adopted codes and other maintenance or risk conditions that exist on the property. This report does address general accessibility issues noted at the facilities, but an in-depth analysis was not made to determine full compliance with the Americans with Disabilities Act.

Visual inspections and observations were noted and have been documented in this report. Specific items reviewed include building envelope (excluding the roof), assessment of interior spaces for circulation, egress, code compliance, accessibility, and finish materials that could impact use or safety.

The mission of championing each and every student through opportunity and compassion begins with the infrastructure and facilities of the District supporting education and instruction triumphantly. This assessment provides the foundation for the design of spaces that are inspirational, collaborative, flexible, and adaptable for today's and future generations of Jesup's students.



DISTRICT MAP



CAMPUS AERIAL



Process

Process



Kickoff

Establish assessment objectives

Establish Facilities Advisory Committee



Research

Review existing Drawings

Building tours

technologies

Energy



Analysis

Existing conditions

> Existing space utilization

Code compliance

Building

performance



Feedback

Facility Advisory Committee meetings

Staff & student listening sessions



Document

Assemble findings

Associate cost estimates

Prioritize projects

Deliver final assessment







existing architectural drawings sets for Jesup Community Schools. Using these drawings, OPN created a 3D Building Information Model with an associated database for Jesup Elementary, Middle, and High School.

Analysis

The team then conducted several field verification visits for the facilities logging additional observations into the database in real-time using laptops. Further, each room and building was documented using photography and laser measuring devices to compare to the existing drawings for accuracy.

Simultaneously, MODUS Engineering also assessed each building's mechanical, electrical, technology, and fire protection systems through visual inspection and photo documentation, and Fehr Graham assessed exterior site improvements on the campus through visual inspection.

Feedback

OPN Architects began the information gathering and evaluation by reviewing the provided Concurrent with the facility analysis, the design team conducted listening sessions with Jesup staff and students and the community to gain a broader understanding of the district's needs and generate a preliminary set of priorities.

> This qualitative feedback was presented to the Facilities Advisory Committee along with the results of the physical assessments. Based on feedback from the Facilities Advisory Committee, needs were divided into four categories: Major Interventions, Minor Interventions, General Maintenance, and Equipment & Technology. Following building tours led by faculty, the committee members were asked to place dots (see page 10) next to the items they felt most in need.

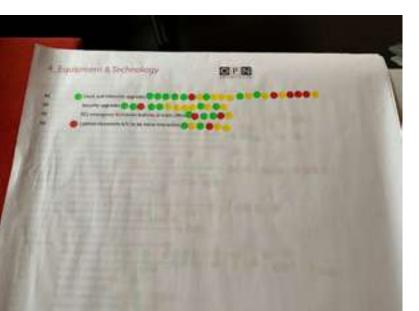
> Using data from facility assessments and following the building tours, the design team further refined the priorities list. The facilities committee was then asked to select their individual top 15 needs. The results of this on-line survey (see page 11) and subsequent conversation revealed the projects to which the design team would focus on assigning costs.

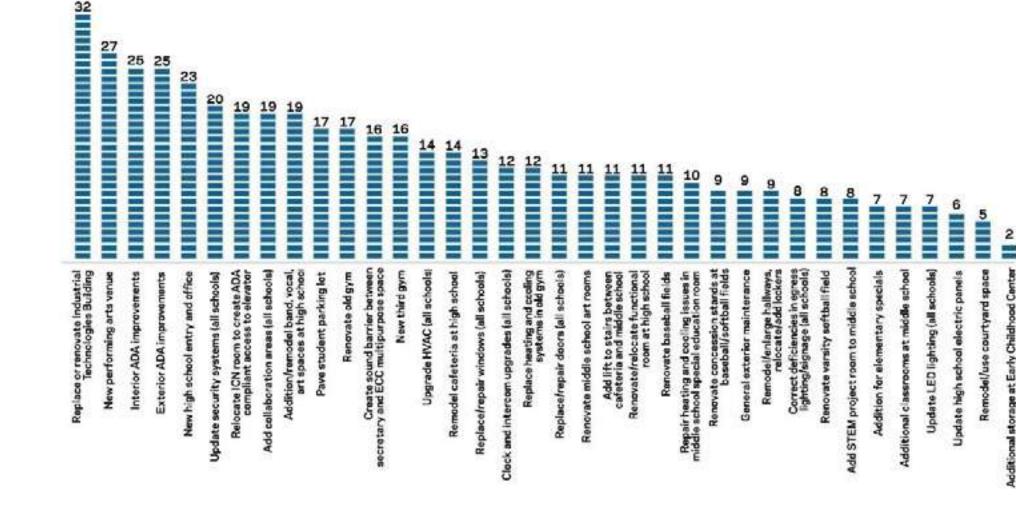














Facility Assessment

Facility Assessment

As part of the facilities assessment process, the design team of OPN Architects, Modus Engineering, and Fehr Graham visited Jesup Community Schools buildings multiple times over the course of a few months. Initial visits included guided building tours with administration leaders and facilities staff. Existing building drawings were analyzed and digitized for the District and for design team use in the construction of 3D building information management (BIM) models.

Also during these visits, by logging observations into digital models in real time, the design team was able to make a full assessment of the interior as well as the exterior of the primary district facilities. The team identified deficiencies in floors, ceilings, doors, windows, casework, display surfaces, and overall paint quality. Also documented were issues related to Americans with Disabilities Act (ADA) compliance. Further field observations were included review of building systems, plumbing fixtures, and visible equipment.

KEY ISSUES

Overall, the facilities have good bones. The exterior is constructed of durable brick and robust finishes. The building layout is indicative of a facility that has grown over time, with a sprawling footprint and areas that have been adapted as needed.

The oldest sections of the school are nearing 100 years old. The majority of the building was constructed in the mid 20th century with several smaller additions completed in the early 2000s. Many areas are well maintained, however there are areas and building systems that have long outlived their useful lifespan and are in need of modernization.

Some of the biggest issues of note are the lack of cohesive finishes throughout the building, resulting in a disjointed appearance moving between various areas of the building. Door hardware and stairs throughout the building are not ADA compliant. The industrial technology and agriculture building is one of the spaces in the poorest condition.

The following items were noted as part of the assessment findings presented to the school board at the January 2020 meeting:

- Finishes: A wide spectrum of finishes were noted. Cohesive finishes would help to tie the building together. Some floors appear to be asbestos tile. Ceiling panels and lighting are not cohesive in some areas.
- Doors: In older areas of the building many doors do not meet ADA requirements for lever access. Door panels throughout the building are not consistent and some are in very poor condition.
- Exterior: Overall the exterior appears to be in good shape. Some areas of tuck-pointing / brick repair are noted. Windows appear to be in adequate to good condition. Any upgrades on older windows would help energy, heating, and cooling needs, especially those in the High School.
- Restrooms: Code and ADA issues related to clearances, door hardware, toilet partitions, and spacing of restroom fixtures were noted. Finish and equipment upgrades in these spaces is needed. Lighting repair or replacement is also suggested for these areas.
- Circulation: ADA paths to the Cafeteria and levels in the High School are convoluted and longer than direct paths to and from spaces. Suggested review of circulation be taken into consideration for improved access and flow.



Facility Assessment — Interior

As part of the detailed site visits conducted by OPN Architects and Modus Engineering, the design team was able to review much of the interior spaces and quality of finishes. The following heat maps indicates a ranking of deficiencies in doors, floors, casework and wall finishes.

Each component listed above was rated from 1 (very poor) to 5 (excellent). Ratings below a 3 were identified as in need of repair and/or replacement. These results are represented in a variety of formats including graphs, floor plans, and numerical representations.

Areas darker in color reveal areas within the building that may require the most urgent attention. Not surprisingly, the areas typically in excellent condition are zones of the building that are newer in age or were recently renovated in the early 21st Century. Finishes are not standard through the building, and could perhaps be made more cohesive to better create a sense of consistency and quality. Doors/door hardware and some restrooms throughout the facility do not meet ADA requirements and may need to be addressed as a priority item for the maintenance of the building.

The diagrams below show the general state of casework, doors, ceilings, walls, flooring, and windows:

RANKING SCALE & COLOR CODE KEY



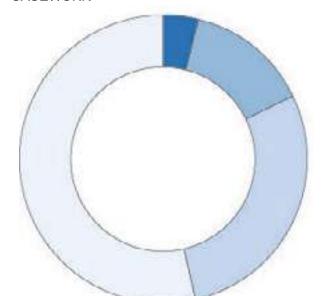
2 - POOR

3 - FAIR

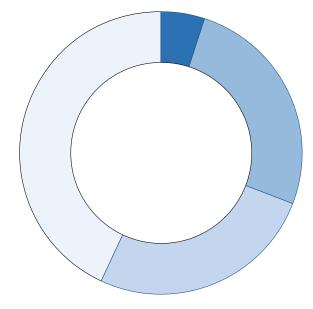
4 - ABOVE AVERAGE

5 - EXCELLENT

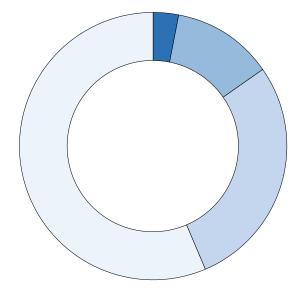
CASEWORK



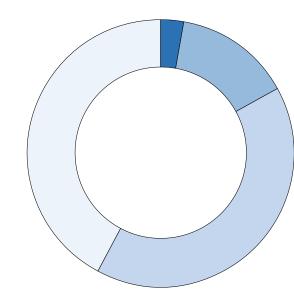
DOORS



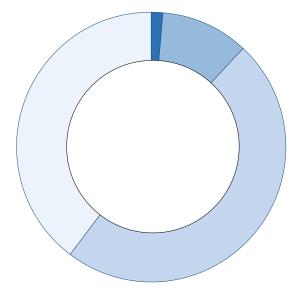
CEILING



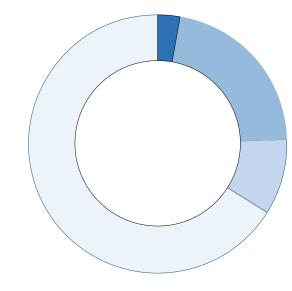
FLOORING

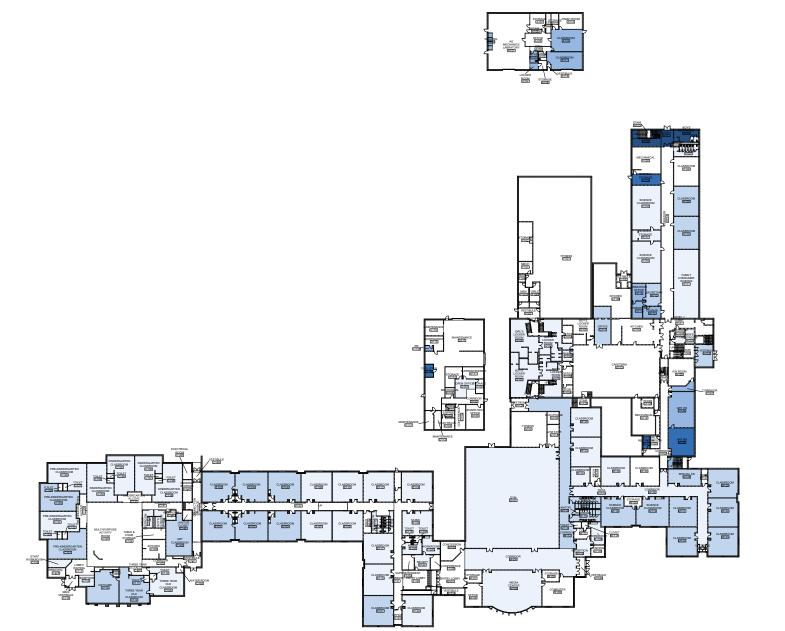


WALLS



WINDOWS







LEVEL 1 - CASEWORK

LEVEL 1 - CEILING

















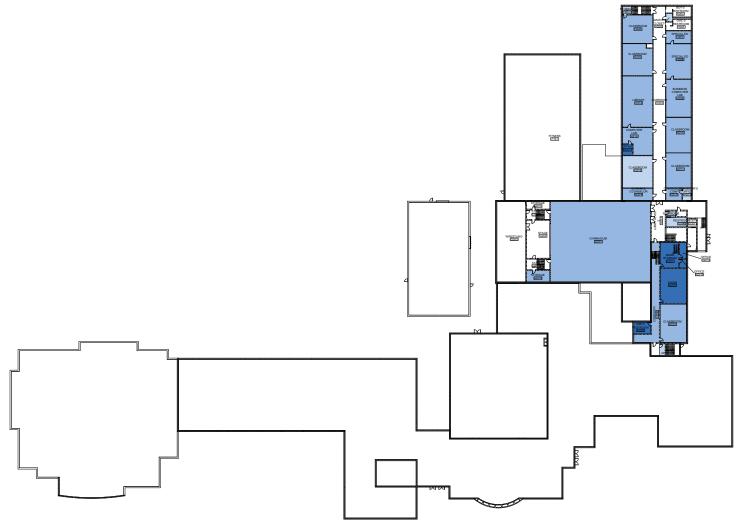


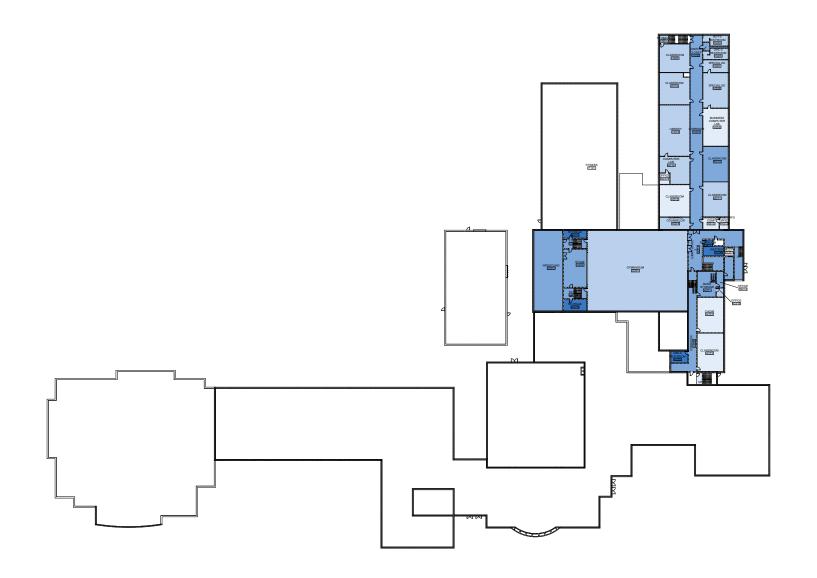


LEVEL 2 - CASEWORK

LEVEL 2 - CEILING

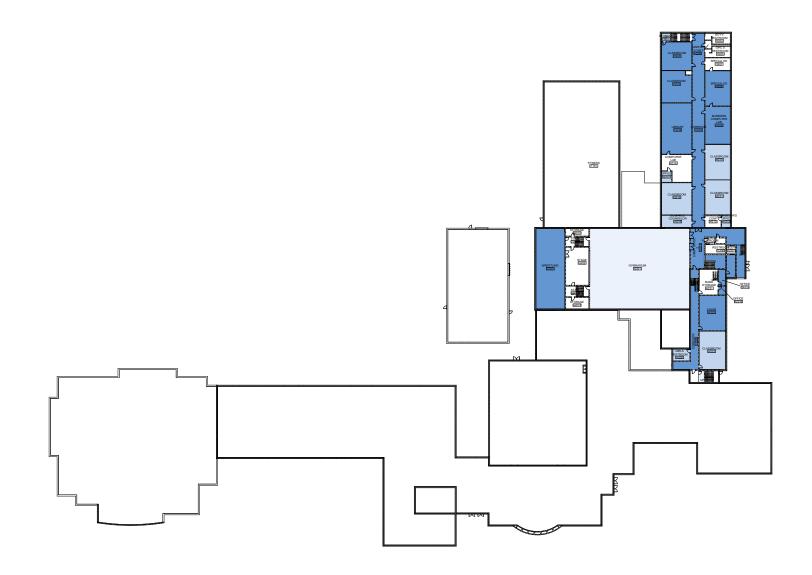
LEVEL 2 - DOORS



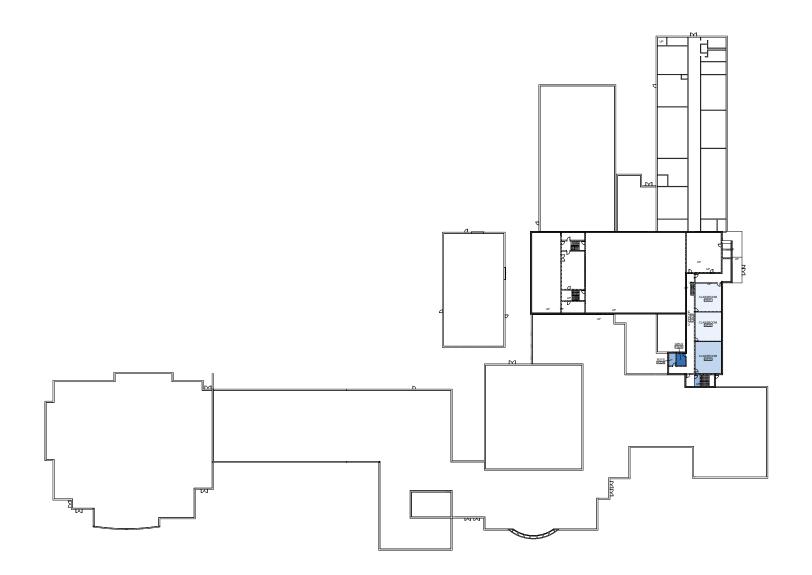


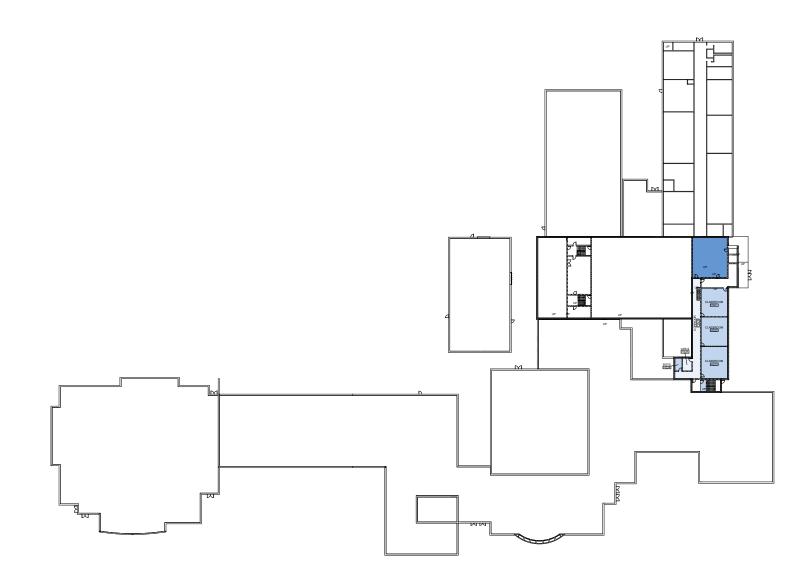
LEVEL 2 - FLOORING





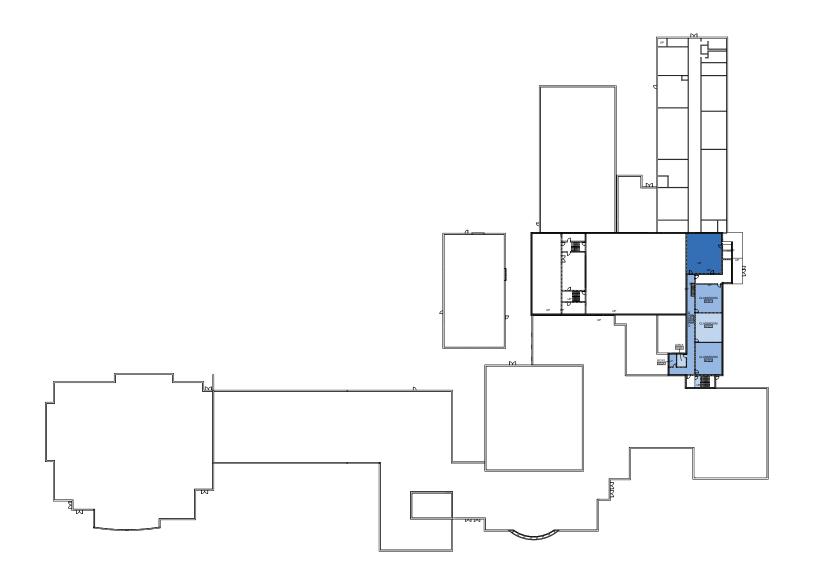
LEVEL 2 - WALLS LEVEL 2 - WINDOWS

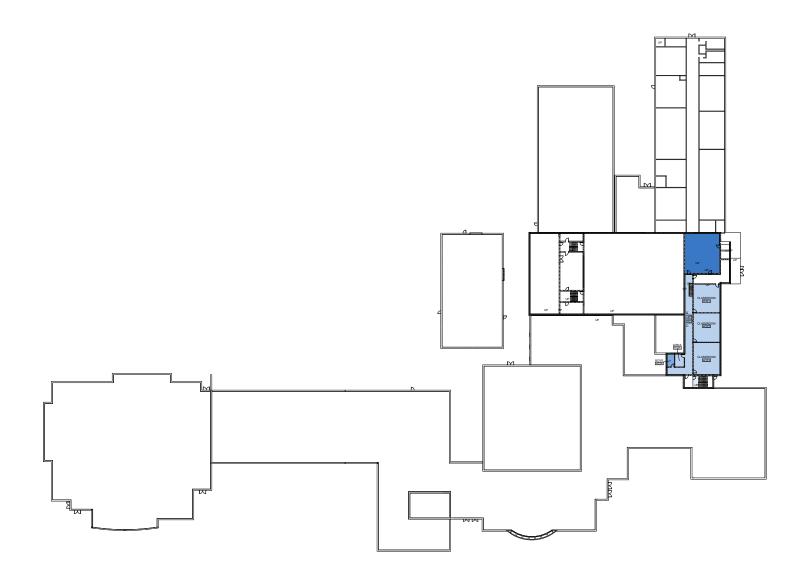




LEVEL 3 - CASEWORK

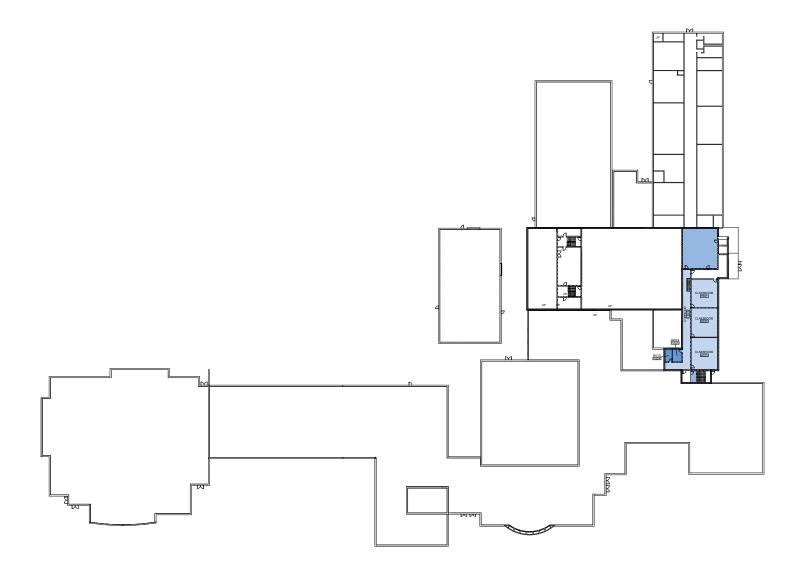
LEVEL 3 - CEILING

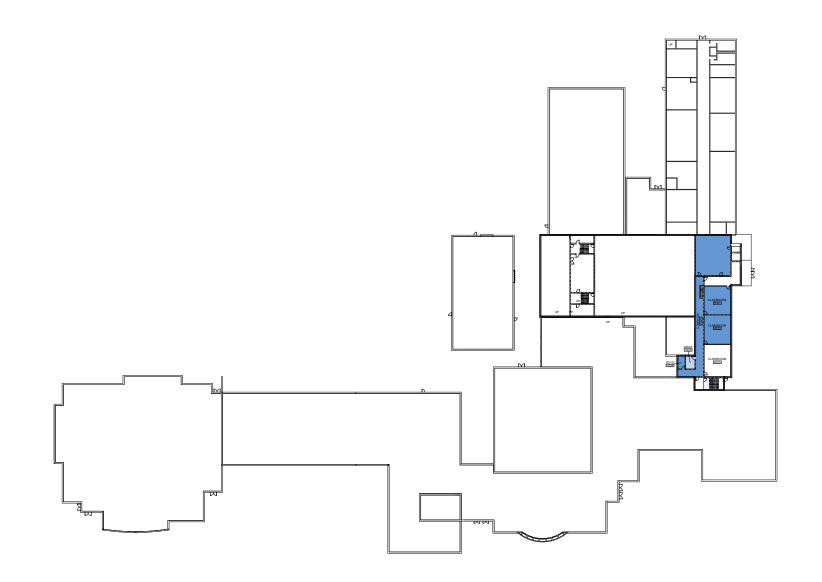




LEVEL 3 - DOORS

LEVEL 3 - FLOORS



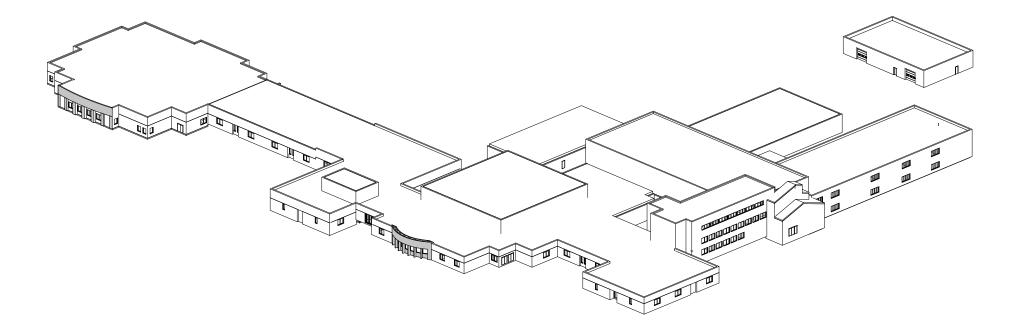


LEVEL 3 - WALLS

LEVEL 3 - WINDOWS

Facility Assessment — Exterior

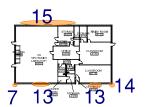
Overall, the exterior of the building is in good shape and will continue to serve the district well into the third decade of the 21st Century, provided the building is well maintained, deficient areas rehabilitated, and updated as required.

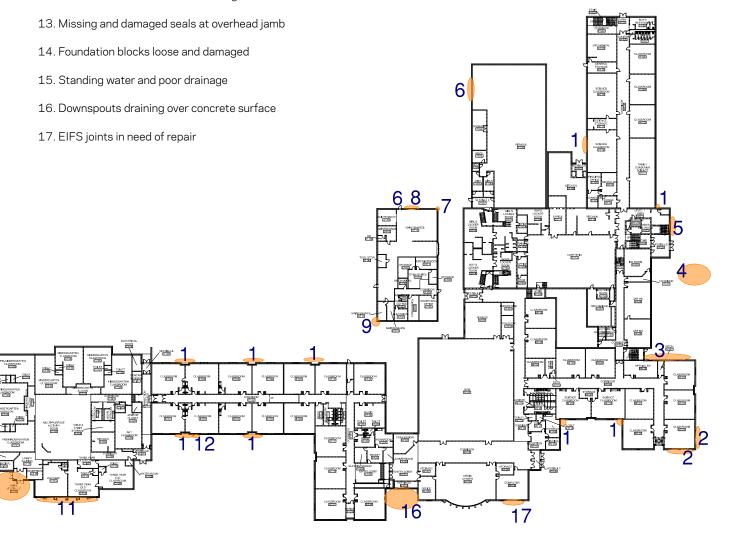


KEY ISSUES

- 1. Water damage on brick and mortar
- 2. Grade above exterior flashing
- 3. Drainage issues along wall
- 4. Ramp not ADA compliant
- 5. Metal panels in poor condition
- 6. Damaged overhead door
- 7. Brick and joints cracked at corner
- 8. Damaged lintel

- 9. Rotting fascia board
- 10. Paint wearing off concrete stairs and ramp
- 11. Mortar joints at columns cracked. Mortar missing
- 12. Efflorescence at hose bib indicating water issue

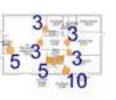




Facility Assessment — ADA & Code

KEY ISSUES

- 1. Handrails not ADA compliant
- 2. FEC mounting height not code compliant
- 3. Door hardware not ADA compliant
- 4. Unsteady handrail, handrail not ADA compliant
- 5. Fixtures not ADA compliant
- 6. No stair handrail, not code compliant
- 7. Locker room showers not ADA compliant
- 8. Counter/sink not accessible
- 9. No grab bars
- 10. Entry into classroom and door hardware not code compliant
- 11. Door opening not code compliant





Facility Assessment — Entry Security

KEY ISSUES

- 1. Staff has no direct oversight over high school entrance not secure
- 2. Staff offices adjacent to middle school entrance provides direct visual oversight
- 3. Staff has no direct oversight at main entrance and no oversight once guest is buzzed in
- 4. Staff offices adjacent to early childhood entrance provides oversight, with direct visual connection through vestibule window

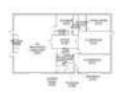


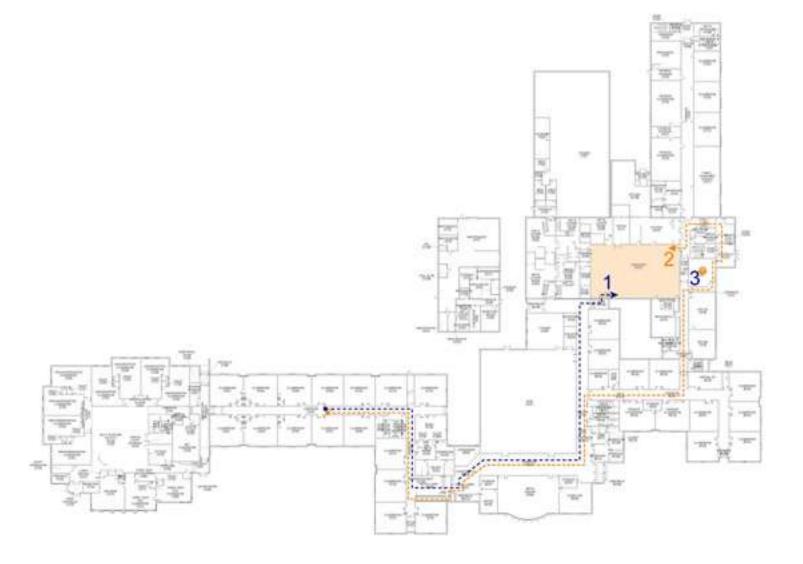


Facility Assessment — Accessibility

TRAVEL PATH TO CAFETERIA

- 1. Accessible circulation path to cafeteria
- 2. Circulation through ICN room is disruptive to room use and confusing to users





Facility Assessment — Accessibility

TRAVEL PATH TO FITNESS ROOM

- 1. Accessible circulation path to fitness room
- 2. Circulation through ICN room is disruptive to room use and confusing to us
- 3. The accessible path to fitness room requires users to go outside and re-enter from main fitness vestibule





Facility Assessment — Site

The site is located at 531 Prospect Street on the northwest side of Jesup, lowa. The site is a single campus serving grades preschool through 12th grade, including all athletic fields, covering nearly 48 acres. Primary vehicular paths and staff and guest parking areas are concrete surfaced, with student and additional overflow parking surfaced with rock. The open areas are turf grass and well maintained. The west end of the property is row cropped, occupying approximately 300 feet parallel to 1st Street and serves as a storm water detention facility. A berm was constructed along 1st Street in 2014 to prevent overtopping 1st Street and slow runoff onto the golf course approximately a quarter mile west.

The buildings are primarily faced with brick to be low maintenance. The school is interconnected except for the administration/maintenance building, agriculture and industrial technology education (Ag ed) building, a small green house and the bus maintenance shed (bus barn). The bus barn is a steel-sided building with access from North Street. There are numerous structures to support the athletic fields, as well.

There is a small parcel along North Street that is owned by the City of Jesup. A municipal elevated water storage tank resides on the parcel, as well as outdoor tennis and basketball courts. The courts encroach onto school property. The courts are considered a shared improvement, though the existence of a formal agreement for responsibility is in guestion.

Existing Facilities and Findings

The campus was reviewed with facilities maintenance staff and the athletic director. The exteriors of the buildings were visually inspected from ground level for indications of structural issues, water infiltration or drainage issues, and accessibility. Pavement was reviewed based on its use, either vehicular or pedestrian access. Athletic facilities were considered from both maintenance and performance perspectives. The overall site drainage patterns were reviewed, and problem areas noted.

The exteriors of the buildings are generally in good to excellent condition. Only some minor items were noted, and none of them are high priority or needing immediate attention. The items noted are as follows:

- Staining along some of the downspouts, especially in interior corners (presumably from splashing or leaky fittings in the downspouts)
- Brick on Ag ed building is cracked near north end (no expansion joint)
- Heated stairs at early development entrance do not heat to outside edges of treads and create ice dams

The campus is served by municipal water and sanitary sewer. No issues were observed or reported. Natural gas and electric service is provided by MidAmerican and no concerns were observed or reported. Storm water runoff drains to the municipal storm sewer system or to open channels and off-site

The drainage immediately around the school buildings is generally sufficient. There were several minor issues identified as follows:

- Tile from sump pit near the northeast corner freezes in winter and requires a heat tape to be run in cold weather
- Erosion/scouring along stairs at east main entrance
- Erosion/scouring from roof drains in landscaping in southeast interior corner
- Downspout near Activities entrance discharges onto sidewalk (ice problem in cold
- Low point in curb at north entrance does not drain (ice problem in cold weather)
- Back-fall toward west side of Ag ed building, causing infiltration during heavy rains

The drainage on and around the athletic fields has several more significant issues. The terrain generally slopes from east to west, so a significant amount of runoff from the buildings and parking drains toward the athletic fields. It appears that some problem areas have been addressed reactively. Specific locations that have issues are:

- Right field of the baseball field (from football field and track runoff)
- Along centerfield and left field fence of baseball field
- Between baseball field and NW recreational softball field
- Between varsity softball field and NW recreational softball field
- Multiple broken tile in practice football field
- Wet spot in south end zone on east side of football field

There is a total of 208 paved and striped parking stalls, including eight designated as reserved for handicapped. This satisfies the recommended minimum number of accessible spaces of seven as based on the Iowa Statewide Urban Design and Specifications Design Manual Section 8C-1. Table 8C-1.02. Six of the eight stalls are van accessible. There are an additional 196 stalls in designated parking lots and 14 to 20 around the greenhouse and Ag ed building available on rock surfaced areas. There are no accessible parking stalls in the rock surfaced areas, thus handicap parking is deficient by at least five stalls. Handicap accessible access from the parking to the buildings and facilities is discussed later.

The parking demand is projected to be 350 to 370 in the next five to ten years. The 410 to 416 parking stalls (not including handicap stalls) available satisfies this demand. However, the student parking is desirable on the north side of the campus. With student drivers generating most of the demand, the parking on the north side of the school is deficient by 50 to 70 stalls.

Pavement on the campus appeared to generally be in fair to excellent condition except for the driveway entrance from 6th Street on the north side of the school to the parking lot east of the track. That concrete was observed to have many random cracks and faulting, most likely due to poor sub-grade and inadequate sub-grade drainage. All the pedestrian paths around the school and football field are paved but most are not compliant with the Americans with Disabilities Act (ADA) and current design standards, guidelines and requirements. The baseball and softball fields have gaps in the paved pedestrian paths, thus are not ADA compliant. The drop-off location at the main entrance on 6th Street has handicap stalls marked but there is not an accessible route from that area.

The athletic facilities vary in condition. The football field and track were rehabilitated in 2013, which included drainage and surfacing improvements. These are still in good condition with a few exceptions, namely the wet spot noted above and a gap between the asphalt track and concrete path on the east side of the track. Items noted as deficient are a lack of permanent bleachers on the visitor's side and lack of handicap accessible bleachers on the home side.

The baseball and softball fields were constructed over 30 years ago with no major rehabilitation projects. There is a concession stand and restroom facility shared by the baseball and softball fields. All the fields have bleachers. There is some overhead netting installed to protect spectators from foul balls. The baseball and varsity softball fields are irrigated, but the systems do not operate reliably and require a significant amount of maintenance. The fields appear to be tiled to help with drainage but no records to confirm the size, spacing or arrangement were available. The fences around the varsity fields are leaning in some places and there are gaps between the bottom of the fence and ground in several locations. The backstop on the baseball

field is shorter than the desired height. The lime on the infields does not drain well. There is an undesirable slope in the right field corner of the baseball field. Storm water drainage between and onto the fields is a major issue. It was noted by staff that there is a significant amount of time and resources spent to maintain the fields due to the multitude of ongoing issues. Based on the age of the fields, the lighting is at or past its expected useful life. The quality and intensity of the light is likely substandard as the bulbs' output decreases over time. Replacing the lighting systems with light-emitting diode (LED) lighting will improve the illumination quality and intensity. LED lights also provide a more consistent and energy-efficient light, improving the player and fan experience while reducing energy consumption.

Bleacher seating was noted at all the athletic fields. The home side of the football field is not accessible, and the visitors' side does not have permanent or compliant bleachers. The softball fields have bleachers but not with fall protection. The softball and baseball bleachers have some overhead netting to provide protection from foul balls from other fields, but the netting does not provide protection for all bleachers. There have been minor injuries to spectators reported from

The athletic field concession stands are functional but showing age. The current structures are requiring more and more maintenance. The layouts for functionality and efficiencies could be improved. Major renovations are needed on the baseball and softball fields which provides an opportune time to address deficiencies and improve the operation and function of the concession stands at all the athletic facilities.

Proposed Improvements/Recommendations

With a growing number of students and visitors with limited mobility. ADA-compliant accessibility improvements are a high priority. Most of the sidewalks constructed since 2010 appear to comply, but most of the older pedestrian routes do not. Even the newer paths are not completely accessible. There is not designated handicap parking near the football field and track. The baseball and softball fields do not have a fully accessible route. It is recommended that all pedestrian routes to/from the paved parking lots, along the school building, to/from the Ag ed building, and all athletic fields be improved. This work will primarily consist of pavement removal and replacement, minor grading, and possibly some drainage improvements to eliminate ice problems during cold weather. It will also address the deficiency of handicap parking stalls, adding a minimum of five stalls. It is suggested to add at least three near the baseball and softball fields entrance and two at the football field/track entrance north of the school and east

The available parking theoretically satisfies the demand, but it was noted that student parking

available on the north side of the school is likely deficient. Unfortunately, there is no available and available parking. space for additional parking on the north side of the school without displacing the shot put and discus track event fields. The recommendation is to maintain the existing parking available. Limited convenient parking will encourage carpooling and bus use or alternative transportation such as biking or walking.

The disturbance of the sidewalks creates an opportunity to repair the erosion and scouring. The concentrated flows causing the erosion may be rerouted or utilize resilient landscaping to armor the locations. This can include landscaping rock and cobble and deep-rooted plantings that will both beautify and protect the areas.

The back-fall along the west side of the Ag ed building should be resolved as soon as possible to prevent water infiltration and, subsequently, damage to the structure or growth of mildew/ mold inside the building and walls. The earth along this side may be regraded to provide positive drainage at least ten feet from the building. It appears that the site can be graded to surface drain to the north around an addition to the Ag ed building.

The exteriors of the buildings are generally in good condition. The staining near the downspouts appears to be cosmetic only. This maybe left as-is or power washed. Any cleaning solutions used should be tested in an inconspicuous location prior to use to ensure they do not discolor the façade. It is likely that the staining may not be fully removed or may return.

The cracking of the brick mortar joint on the Ag ed building should be repaired to prevent water infiltration. The cause of the cracking is likely due to a lack of expansion joint near the corner. It is recommended that an experienced masonry expert be consulted for the proper solution.

The broken pavement along the north side of the school and south of the Ag ed building likely is not a major concern except for the ponding at the north entrance. Without amending the soils and addressing the subsurface drainage, it is likely that similar pavement cracking would develop in the new pavement. Instead of or in addition to the sub-grade improvements, new pavement could be reinforced so that any random cracking will not separate or fault, thus maintaining a smoother ride and better surface drainage. It is likely most economical to include the pavement with other concrete work in that vicinity, such as a sidewalk or pedestrian path project to improve ADA compliance.

The parking for the baseball and softball fields is surfaced with crushed stone and thus is not considered handicap accessible. At a minimum, accessible parking should be provided close to the entrance to the baseball/softball fields with hard surfaced stalls and pedestrian path. The ideal solution is to provide a paved parking lot with defined parking stalls to maximize access

The wet areas in the south end zone of the football field and across the practice football fields are likely damaged tile. The cause is difficult to determine without excavating the problem location and inspecting the type of failure. The solution is likely removing the damaged section and replacing it.

The gap between the track and the sidewalk pavement on the east side appears to be freeze/ thaw deterioration of the asphalt edge. It is recommended to have an asphalt contractor route and clean the area and fill with a hot-applied tar sealant. The tar sealant will prevent water from standing in the gap and thus preventing further damage. The color of the tar will blend well with the black track surface.

The condition of the baseball field and severity of the drainage issues warrant an overhaul of the playing surface, subsurface drainage system, and fencing. It is highly recommended to address the drainage issues in the outfield at the same time. Because there is limited elevation difference from outside the right field fence to the left field corner, a traditional storm sewer system to capture runoff from the football field will be very challenging and likely inefficient. The recommendation is to grade a swale, or shallow channel, at least 10 to 20 feet outside the fence to capture runoff from routine rain events before the runoff impacts the baseball field. The swale would flow northerly and westerly parallel to the fence and outlet to the channel north of the north softball field. If grade allows, a tile may be installed in or along the swale to promote a dry, stable flow line in order to facilitate regular mowing.

The varsity softball field is also in need of an overhaul to improve drainage and the playing surface. Improvements recommended include new tile system, better infield surface to promote drainage, and replace the irrigation system.

The recreational softball fields also suffer from drainage and playing surface problems. These fields are not expected to play to the same level as the varsity field but are utilized at a competitive level. At a minimum, the subsurface drainage and infield surfacing should be

The common areas between the softball and baseball fields does not provide ADA accessibility and suffers from drainage problems, both lack of drainage and erosion or scouring from concentrated flows. Installing pavement, including a series of ramps and stairs for access to the concession stand and restrooms, will promote better drainage and prevent the erosion in the pedestrian areas. This may eliminate or reduce the need for storm sewer inlets and piping, thus the concentrated flows that cause erosion and scouring.

Bleacher seating improvements may be a lower priority, but still worth considering for accessibility and safety reasons. There appears to be room on the north end of the home side football bleachers to install a ramp to provide ADA access. There will need to be some modifications to allow for wheelchair accommodations. The visitors' side would benefit from bleachers with fall protection due to the height of the bleachers present. It is likely most cost effective to purchase new bleachers with such protection rather than retrofit. The bleachers would also be dedicated to the visitors' side and prevent damage from moving them for other events. The softball bleachers should have fall protection installed.

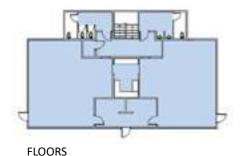
The baseball and softball concession stand is showing age and wear. The concession area is not highly efficient, and the restrooms are outdated. It is possible that the existing building be remodeled, but it may be as cost-effective to demolish the structure and construct a new one to meet current standards. That would allow for additional restroom stalls, true ADA compliance and confidence that the concession area meets all applicable codes and standards for food safety. The storage areas could be expanded and security enhanced. It would also be an opportunity to make Jesup athletics a premiere facility to host tournaments and post-season games.

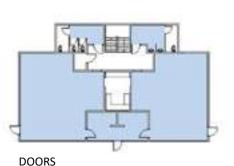
Many of the recommended improvements will require significant capital expenditures. Budgetary cost information for the recommendations is included in Appendix A. Some projects may be phased or staged to fit available funding.

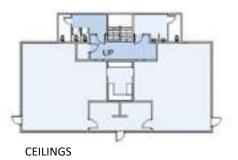
Facility Assessment — Rural Schools: Triumph

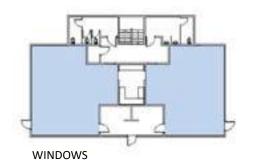
The Triumph Elementary site is located at 1348 145th Street near Fairbank in Buchanan County, Iowa. The site is a 0.88-acre parcel serving an Amish community. The building is served with a crushed stone surfaced driveway and small parking lot. The parcel is fenced around the perimeter with chain link fencing. There is a metal slide, jungle gym, swing set and merry go round. There is backstop for baseball, basketball hoop and volleyball area. There is also a small plastic play set and a sandbox.

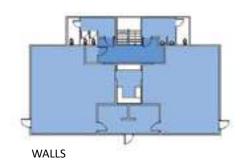
The school has poured concrete foundation, composite siding and a steel roof. The building appears to be in good condition. The main entrance has a concrete patio and flush entry for accessibility. There is a liquid propane tank for the furnace and evidence of a septic system. There is a small horse barn available for students' horses. The barn has steel siding, with one section having a steel roof and the other part having asphalt shingles.

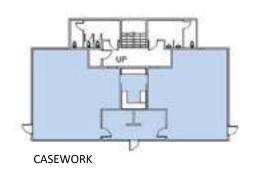












Existing Facilities and Findings

The site was reviewed for potential problems or items of concern. The exteriors of the buildings were visually inspected from ground level for indications of structural issues, water infiltration or drainage issues, and accessibility. Pavement and other surfacing was reviewed based on its use, either vehicular or pedestrian access. The overall site drainage patterns were reviewed, and problem areas noted.

The exterior of the school building is generally in good to excellent condition. The siding has some minor chipping or breaks along the bottom edge, but this does not appear to be of significant concern at this time.

The drainage around the school building should be improved on the north and west sides as the ground immediately adjacent to the building has back-fall. The concrete areas drain well and are in good condition.

The asphalt shingled roof of the horse barn is in poor condition, with significant wear to the entire roof.

The fence around the perimeter is in good condition and appears to provide sufficient security.

There are no signed or striped parking due to the rock surfacing. Because there is no pavement, there is inherently no accessible parking. The main entrance appears to otherwise be ADA compliant. Other exits have stoops but are not handicap accessible. There is one egress window for the basement in the northeast corner. It has a permanent ladder bolted to the foundation. The size of the window was not checked for proper egress standards.

The playground equipment is out of date and lacks modern safety features. There is no fall protection or safety surfacing present. There are no competition-level athletic facilities on the site.

Proposed Improvements/Recommendations

Because this is an Amish school, the normal parking standards to not apply. There is sufficient space for the students' horse drawn buggies. The staff operating motorized vehicles also have adequate space. However, there is a lack of handicap accessible parking. At least one van-accessible space should be paved near an accessible entrance.

The playground does not meet current safety regulations and the equipment should be replaced. Until it is replaced, fall protection and/or safety surfacing should be installed under the slide, swing set and jungle gym. The volleyball area is missing a post on the west end. A new post is recommended to be installed and net provided. Consideration may be given to installing permanent bases for the ball field.

The low areas adjacent to the foundation should be regraded for proper drainage.

The asphalt shingles on the horse barn should be replaced as soon as practical.

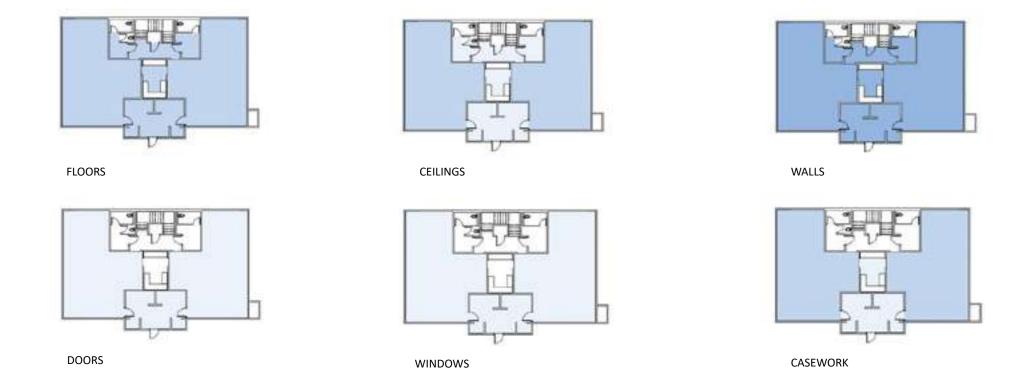




Facility Assessment — Rural Schools: Prairie Grove

The Prairie Grove Elementary site is located at 1501 150th Street outside of Hazelton in Buchanan County, Iowa. The site is a 0.63-acre parcel serving an Amish community. The building is served with a crushed stone surfaced driveway and small parking lot. The parcel is fenced around the perimeter with chain link fencing. There is swing set, backstop for baseball, basketball hoop and volleyball net.

The school has poured concrete foundation, composite siding and a steel roof. The building appears to be in good condition. The main entrance has a concrete patio and flush entry for accessibility. There is a liquid propane tank for the furnace and evidence of a septic system.



Existing Facilities and Findings

The site was reviewed for potential problems or items of concern. The exteriors of the buildings were visually inspected from ground level for indications of structural issues, water infiltration or drainage issues, and accessibility. Pavement and other surfacing was reviewed based on its use, either vehicular or pedestrian access. The overall site drainage patterns were reviewed, and problem areas noted.

The exterior of the building is generally in good to excellent condition. The siding has some minor chipping or breaks along the bottom edge but this does not appear to be of significant concern at this time.

The drainage around the school building appears sufficient. The concrete areas drain well and are in good condition. The only area noted was at the downspout on the northeast corner of the school. The splash pad is in a slight depression and does not appear to fully drain.

The fence around the perimeter is in good condition and appears to provide sufficient security.

There are no signed or striped parking due to the rock surfacing. Because there is no pavement, there is inherently no accessible parking. The main entrance appears to otherwise be ADA compliant. Other exits have stoops but are not handicap accessible. There is one egress window for the basement in the northeast corner. It has a permanent ladder bolted to the foundation. The size of the window was not checked for proper egress standards.

The playground equipment is minimal and appears to be in fair condition. There is no fall protection or safety surfacing present. There are no competition-level athletic facilities on the site.

Proposed Improvements/Recommendations

Because this is an Amish school, the normal parking standards to not apply. There is sufficient space for the students' horse drawn buggies. The staff operating motorized vehicles also have adequate space. However, there is a lack of handicap accessible parking. At least one van-accessible space should be paved near an accessible entrance.

There is minimal playground equipment available. Consideration may be given for additional, age-appropriate items. The playground does not meet current safety regulations and fall protection and/or safety surfacing should be installed under the swing set. Consideration may be given to installing permanent bases for the ball

The low spot at the northeast downspout should be regraded for proper drainage.

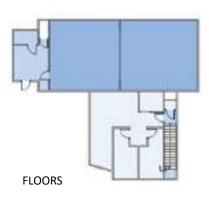


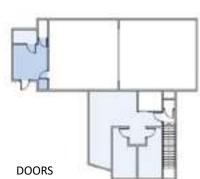


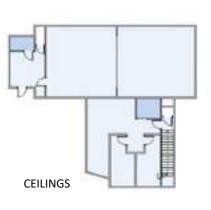
Facility Assessment — Rural Schools: Perry #1

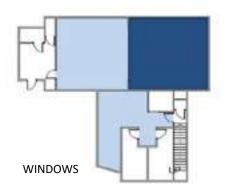
The site is located at 1726 Fairbank Amish Boulevard north of Independence in Buchanan County, Iowa. The site is a 0.66-acre parcel serving an Amish community. The building is served with a crushed stone surfaced driveway and small parking lot. The parcel is fenced around the perimeter with wood posts and welded wire panels. There is some playground equipment available, including a metal slide, jungle gym, merry-go-round and swing set. There is also a backstop for baseball and a volleyball net. A small barn is available for horses.

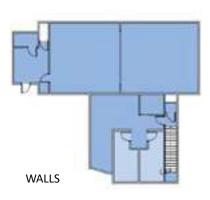
The school has vinyl siding and a steel roof. The building appears to consist of an original building with a concrete block foundation and an addition to the southeast. The addition appears more modern and has a concrete ramp and stairs to provide access. There is a liquid propane tank for the furnace and evidence of a septic system.

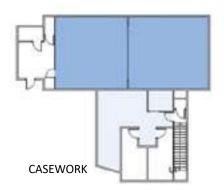












Existing Facilities and Findings

The exteriors of the buildings were visually inspected from ground level for indications of structural issues, water infiltration or drainage issues, and accessibility. Pavement and other surfacing was reviewed based on its use, either vehicular or pedestrian access. The overall site drainage patterns were reviewed, and problem areas noted.

The exterior of the building is generally in fair condition. The vinyl siding shows some wear with minor damage on the north side.

The drainage around the school building is questionable as the ground immediately against the foundation appears to have back-fall. This may not be a noticeable issue since the roof has gutters with downspouts that are tiled away.

The fence around the perimeter appears to provide sufficient security. However, the majority of the fence on the northeast side is leaning. Another small section is leaning on the southwest side. The backstop in the east corner is severely leaning.

There are no signed or striped parking due to the rock surfacing. Because there is no pavement, there is inherently no accessible parking. There is a ramp to access the school. The ramp and stairs have railings. There is a precast set of stairs at the west door to the original building that is cracked and the reinforcement is showing at the bottom.

The playground equipment is out of date and lacks modern safety features. There is no fall protection or safety surfacing present. There are no competition-level athletic facilities on the site.

Proposed Improvements/Recommendations

The damaged siding should be repaired to prevent water infiltration and damage to the building. It may also improve thermal efficiency by reducing airflow in the walls, especially with predominant winds from the northwest. The grading adjacent to the structures should also be improved to promote positive drainage.

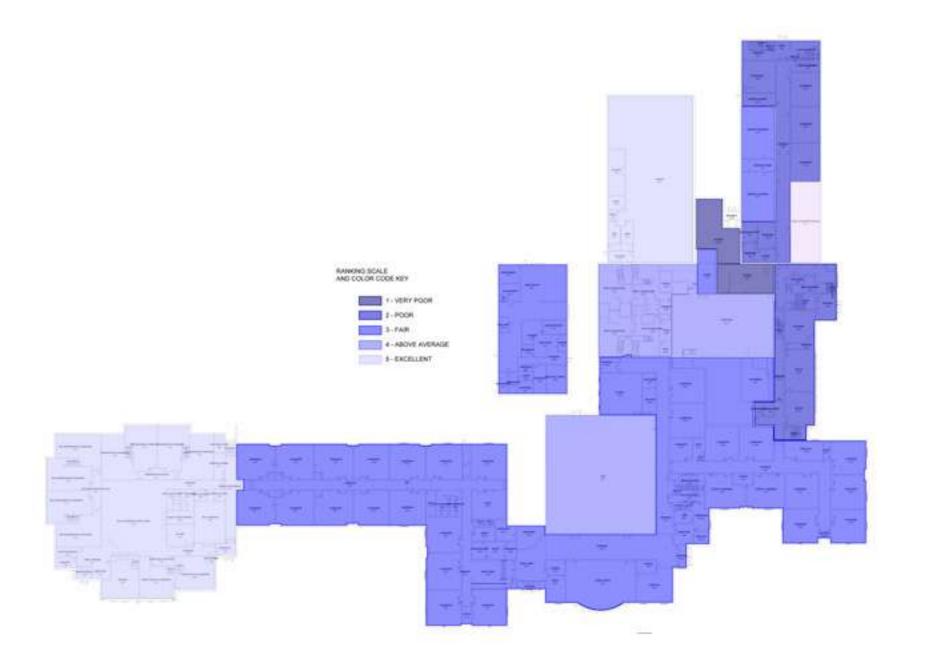
Because this is an Amish school, the normal parking standards to not apply. There is sufficient space for the students' horse drawn buggies. The staff operating motorized vehicles also have sufficient space. However, there is a lack of handicap accessible parking. At least one van-accessible space should be paved near the accessible entrance.

The playground does not meet current safety regulations and the equipment should be replaced. Until it is replaced, fall protection and/or safety surfacing should be installed under the slide, swing set and jungle gym. The volleyball net is supported by movable posts cast in concrete in rubber tires. The posts were also anchored with rope to the fence on one end and a picnic table on the other. Permanent posts capable of supporting the net are recommended to eliminate the ropes to the fence and table that present hazards. The backstop should be repaired. Consideration may be given to installing permanent bases for the ball field.

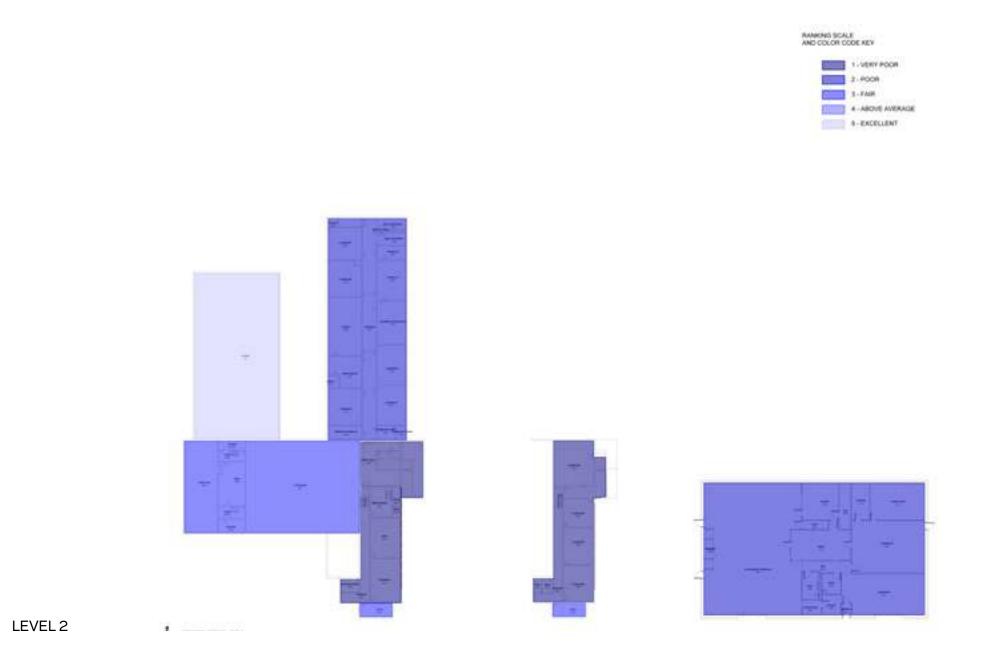




Facility Assessment — Mechanical Systems

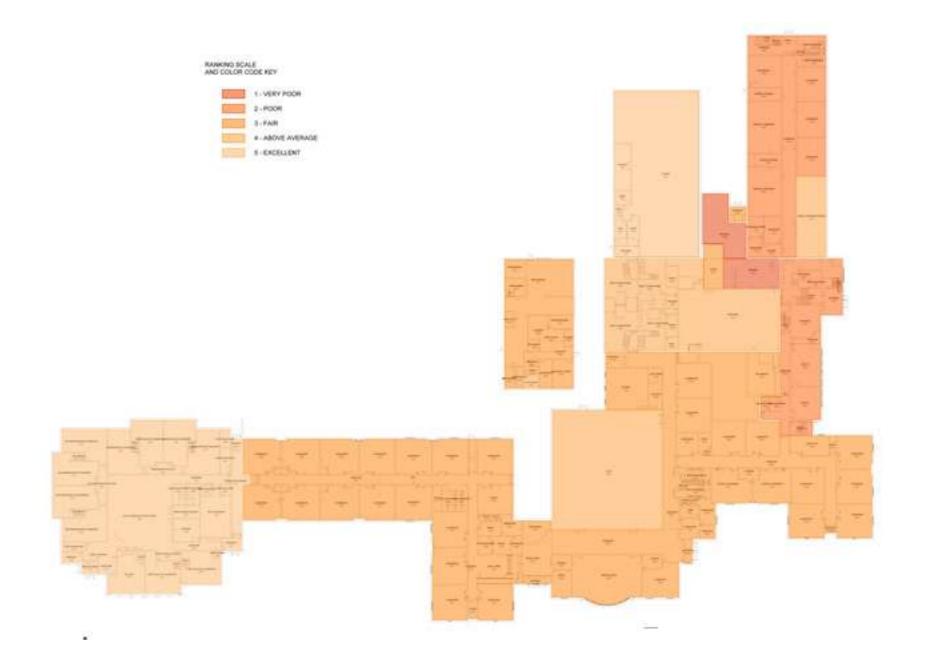


Facility Assessment — Mechanical Systems

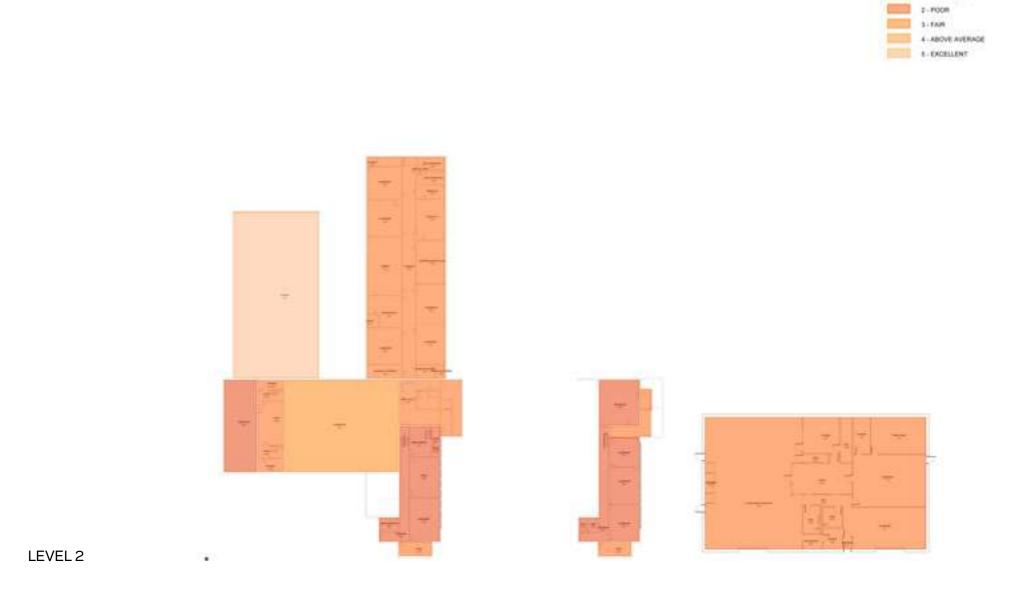


NAWONG SCALE AND COLOR CODE KEY

Facility Assessment — Electrical Systems



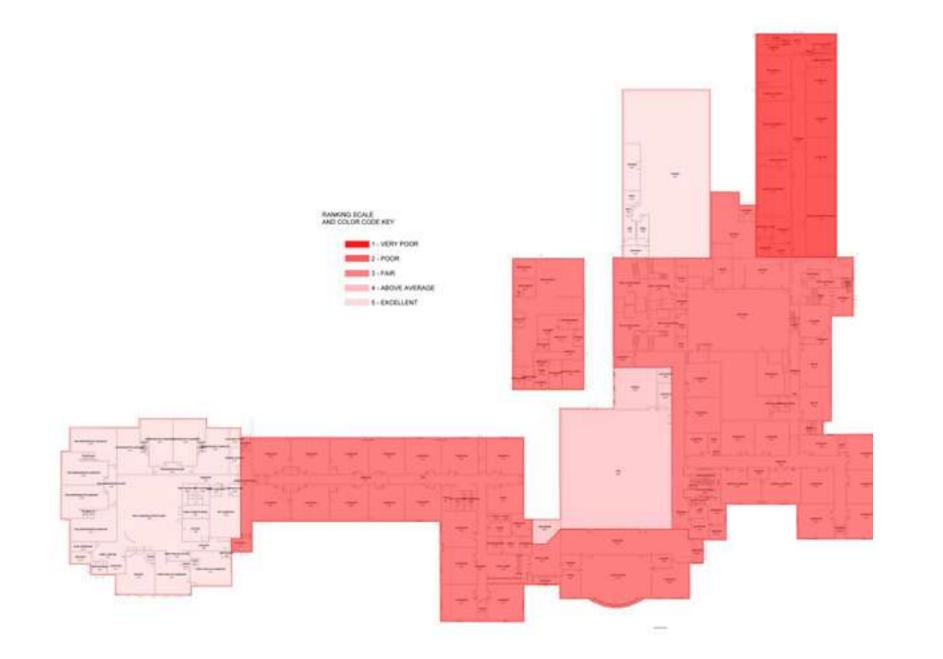
Facility Assessment — Electrical Systems



LEVEL 1

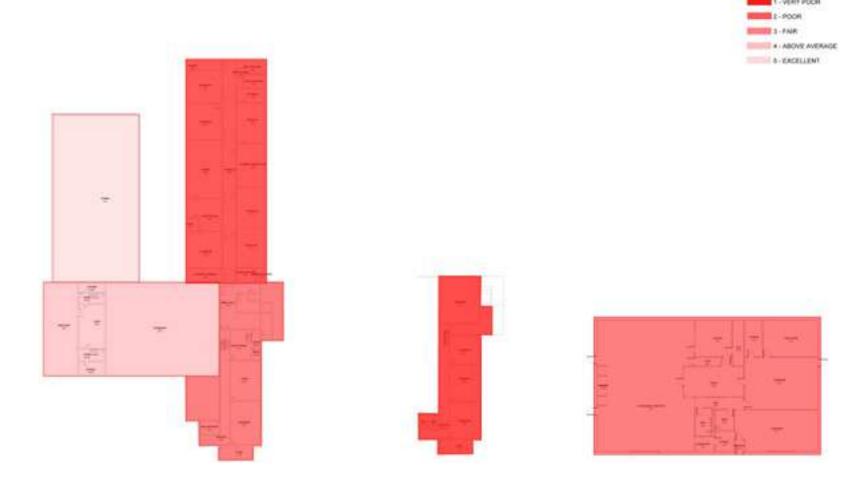
SANKING SCALE WAS COLOR CODE KEY

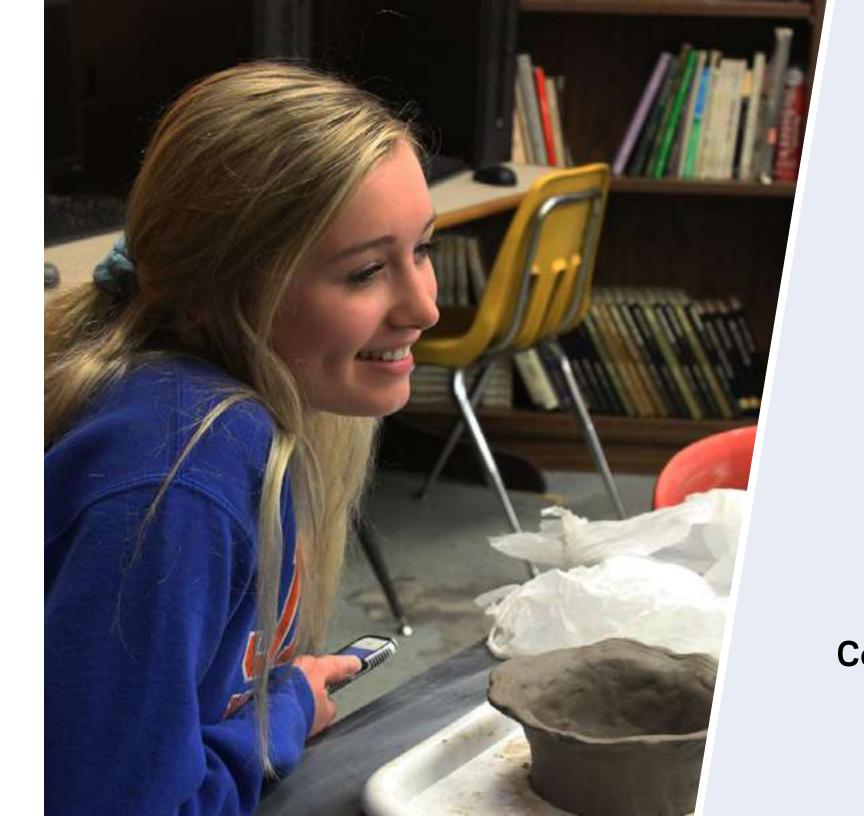
Facility Assessment — Technology Systems



Facility Assessment — Technology Systems

LEVEL 2

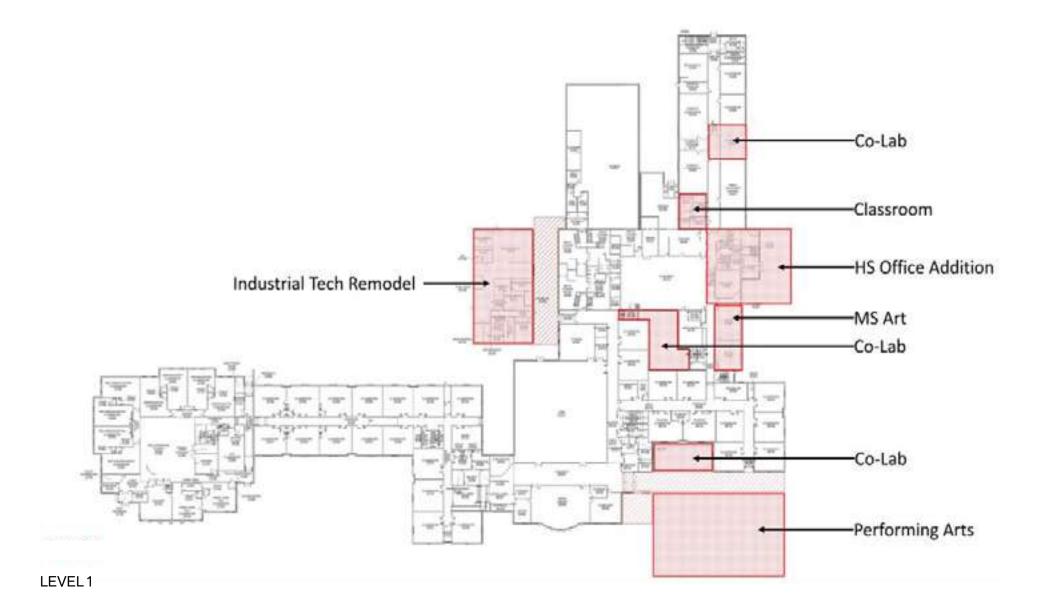


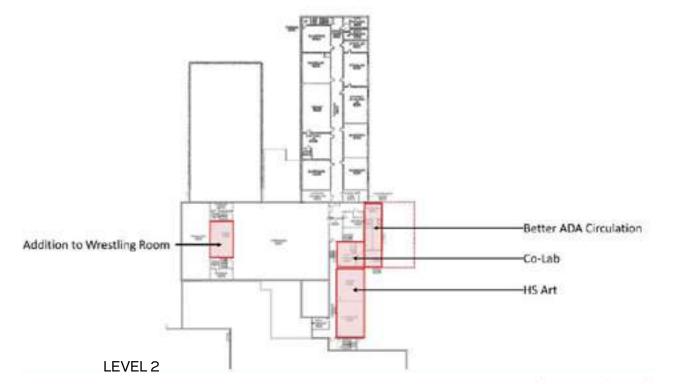


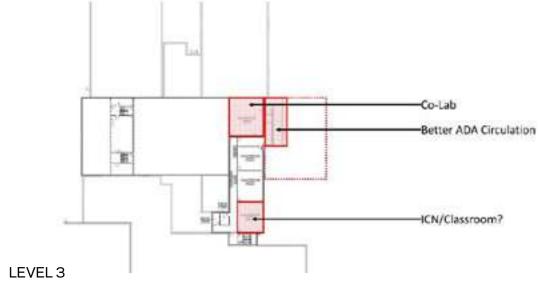
Concepts & Cost Analysis

Future Project Concepts

The priority projects were assessed on the overall campus. The following plan diagrams indicate potential locations for additions and remodels on the campus. These are intended to be placeholders and not representatives of the actual design. Further exploration and programming will need to be done for finalizing program of each space and needs.







Future Project Cost Analysis

The priority projects were grouped into 5 different categories: Site Improvements, Code, Renovation, New Construction, and Mechanical/Electrical/Plumbing/Technology. Each project identified in the Building Planning Diagrams was assigned a cost and grouped into a phased master plan. The Steering Committee met to agree upon the masterplan and funding sources for the projects.

| uped into a priased master plan. The Steering Committ | ee met to agree up | on the maste | i piai i ai iu i | uriding sources it | or the projects. | Phase 1 2020-2022 | Phase 2 2022-2023 | Phase 3 2025-2026 |
|---|--------------------|--------------|------------------|--------------------|------------------|----------------------|----------------------|----------------------|
| Description | Quantity | Unit | Area | Unit Cost | Total | | | |
| Site Improvements | | | | | | | | |
| Student Parking -6" PCC | 1 | LS | 1 | \$275,000.00 | \$275,000.00 | | \$275,000.00 | \$0.00 |
| Baseball Field Renovation | 1 | LS | 1 | \$750,000.00 | \$750,000.00 | | \$750,000.00 | \$0.00 |
| Softball Field (Varsity) Renovation | 1 | LS | 1 | \$550,000.00 | \$550,000.00 | | \$550,000.00 | \$0.00 |
| Softball Field (Recreation) Renovation | 1 | LS | 1 | \$350,000.00 | \$350,000.00 | | \$350,000.00 | \$0.00 |
| Baseball/Softball Drainage | 1 | LS | 1 | \$200,000.00 | \$200,000.00 | \$200,000.00 | | |
| Bleachers at all Athletic Fields | 1 | LS | 1 | \$80,000.00 | \$80,000.00 | \$80,000.00 | | |
| Overhead netting at Baseball and Softball fields | 1 | LS | 1 | \$60,000.00 | \$60,000.00 | \$60,000.00 | | |
| Baseball/Softball Concessions | 1 | LS | 1 | \$350,000.00 | \$350,000.00 | | \$350,000.00 | \$0.00 |
| LED Lighting at Softball Field | 1 | LS | 1 | \$220,000.00 | \$220,000.00 | | \$220,000.00 | \$0.00 |
| LED Lighting at Baseball Field | 1 | LS | 1 | \$175,000.00 | \$175,000.00 | | \$175,000.00 | \$0.00 |
| | | | | SUBTOTAL | \$3,010,000.00 | \$340,000.00 | \$2,670,000.00 | \$0.00 |
| Code | | | | | | | | |
| Security -Doors with Lockdown Capability @ vestibules | 12 | Doors | 1 | \$5,500.00 | \$66,000.00 | | \$66,000.00 | \$0.00 |
| ADA Code Compliance - Interior | 1 | LS | 1 | \$50,000.00 | \$50,000.00 | \$50,000.00 | | |
| ADA Code Compliance - Exterior | 1 | LS | 1 | \$150,000.00 | \$150,000.00 | \$150,000.00 | | |
| Security -Cameras | 10 | Cameras | 1 | \$2,000.00 | \$20,000.00 | | \$20,000.00 | \$0.00 |
| | | | | SUBTOTAL | \$286,000.00 | \$200,000.00 | \$86,000.00 | \$0.00 |
| Renovation | | | | | | | | |
| HS Office conversion to Functional Classroom | 1 | SF | 1042 | \$45.00 | \$46,890.00 | | \$46,890.00 | \$0.00 |
| Classroom conversion to Collaboration Rooms | 1 | SF | 793 | \$40.00 | \$31,720.00 | | \$31,720.00 | \$0.00 |
| Art Room Remodel - High School | 1 | SF | 1907 | \$50.00 | \$95,350.00 | | \$95,350.00 | \$0.00 |
| Art Room Remodel - Middle School | 1 | SF | 1734 | \$50.00 | \$86,700.00 | | \$86,700.00 | \$0.00 |
| ECC Sound Barrier Wall | 1 | SF | 250 | \$40.00 | \$10,000.00 | \$10,000.00 | | |
| Cafeteria Remodel | 1 | SF | 4792 | \$30.00 | \$143,760.00 | | | \$143,760.0 |
| Gym Stage Renovation - Weight Room | 1 | SF | 865 | \$100.00 | \$86,500.00 | | \$86,500.00 | \$0.00 |
| Gym Renovation - Bleachers | 1 | SF | 500 | \$130.00 | \$65,000.00 | | \$65,000.00 | \$0.00 |
| Gym Renovation - Flooring | 1 | SF | 7941 | \$15.00 | \$119,115.00 | | \$119,115.00 | \$0.00 |
| Window Replacement - Campus Wide | 1 | SF | 2041 | \$81.00 | \$165,321.00 | | \$165,321.00 | \$0.00 |
| Door Replacement/Repair - Campus Wide | 15 | EA | 1 | \$1,800.00 | \$27,000.00 | | \$27,000.00 | \$0.00 |
| General Exterior Maintenance | 1 | LS | 1 | \$150,000.00 | \$150,000.00 | | \$150,000.00 | \$0.00 |
| | | | | | | | | |
| | | | | SUBTOTAL | \$1,027,356.00 | \$10,000.00 | \$873,596.00 | \$143,760.0 |

Phase 1

Phase 3

Phase 2

| New Construction | | | | | | | | |
|---|---------|--------|-------|----------------|-----------------|--------------|-----------------|----------------|
| Ag / CTE Remodel | 1 | SF | 7193 | \$200.00 | \$1,438,600.00 | | | • |
| Ag / CTE Addition | 1 | SF | 2000 | \$250.00 | \$500,000.00 | | | |
| Ag / CTE Addition @ Corridor | 1 | SF | 3282 | \$200.00 | \$656,400.00 | | | |
| | | | | | \$2,595,000.00 | | \$2,595,000.00 | |
| Demo Maintenance Building | 1 | SF | 5960 | \$15.00 | \$89,400.00 | | | |
| New Mantenance Building | 1 | SF | 5960 | \$150.00 | \$894,000.00 | | | |
| | | | | | \$983,400.00 | | \$983,400.00 | |
| High School Lobby / Office Addition - Level 1 | 1 | SF | 2500 | \$275.00 | \$687,500.00 | | \$687,500.00 | |
| High School Lobby / Office Remodel - Level 1 | 1 | SF | 3725 | \$350.00 | \$1,303,750.00 | | \$1,303,750.00 | |
| High School Lobby / Office Remodel - Level 2 | 1 | SF | 3271 | \$350.00 | \$1,144,850.00 | | | \$1,144,850.00 |
| High School Lobby / Office Remodel - Level 3 | 1 | SF | 2338 | \$250.00 | \$584,500.00 | | | \$584,500.00 |
| | | | | | \$3,720,600.00 | | | |
| Collaboration Areas Additions @ Exterior Courtyard | 1 | SF | 2093 | \$275.00 | \$575,575.00 | | | \$575,575.00 |
| Collaboration Areas Additions @ Middle School south infill (STEM) | 1 | SF | 1932 | \$275.00 | \$531,300.00 | | | \$531,300.00 |
| Performing Arts Addition | 1 | SF | 9500 | \$425.00 | \$4,037,500.00 | | | |
| Band/Vocal Addition | 1 | SF | 4500 | \$275.00 | \$1,237,500.00 | | | |
| | | | | | \$5,275,000.00 | | \$5,275,000.00 | |
| 3rd Gym - New Construction | 1 | SF | 14000 | \$250.00 | \$3,500,000.00 | | | \$3,500,000.00 |
| | | | | SUBTOTAL | \$17,180,875.00 | \$0.00 | \$10,844,650.00 | \$6,336,225.00 |
| M/E/P + Tech Items | | | | | | | | |
| HVAC Upgrades - Entire Campus ROI Scenarios - Direct Replace | 1 | System | 1 | \$900,000.00 | | \$900,000.00 | | |
| HVAC Upgrades - Entire Campus ROI Scenarios - Mid Level | 1 | System | 1 | \$3,200,000.00 | | | | |
| HVAC Upgrades - Entire Campus ROI Scenarios - High Level (Geother | n 1 | System | 1 | \$4,800,000.00 | \$4,800,000.00 | | | \$4,800,000.00 |
| Clock updgrades (All Schools) | 107 | System | 1 | \$234.00 | \$25,038.00 | | \$25,038.00 | |
| Paging updgrades (All Schools) | 178,210 | SF | 1 | \$0.85 | \$151,478.50 | | \$151,478.50 | |
| Correct deficiencies in egress lighting/signage (All Schools) | 1 | System | 1 | \$10,000.00 | \$10,000.00 | | \$10,000.00 | |
| Fire Alarm System (NEW add to the list) | 178,210 | SF | 1 | \$3.50 | \$623,735.00 | | \$623,735.00 | |
| | | | | SUBTOTAL | \$5,610,251.50 | \$900,000.00 | \$810,251.50 | \$4,800,000.00 |
| | | | | TOTAL | \$27,114,483 | \$1,450,000 | \$15,284,498 | \$11,279,98 |



Appendix

High School Wing











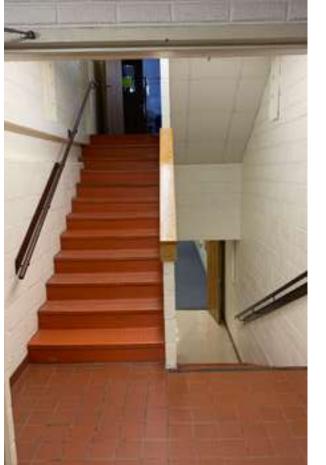




FIGURE 05 FIGURE 04 FIGURE 06

FIGURE 01 - Wood stalls in original bathroom of high school too short and missing doors

FIGURE 02 - Wall mount sinks showing wear at overflow drain

FIGURE 03 -Glazed block at high school restroom cracking at joints

FIGURE 04 - High School wood doors at staircase showing wear

FIGURE 05 - Multiple changes in levels in high school

FIGURE 06 - Elevator connecting multiple levels - not all doorways to elevator are accessible. Storage blocking accessible route

FIGURE 07

Elementary School Wing



FIGURE 08



FIGURE 09





FIGURE 10

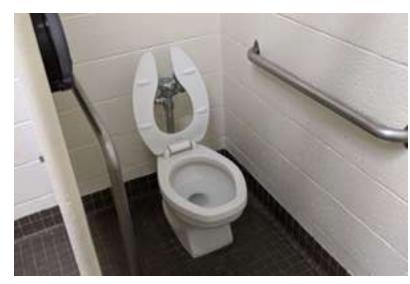


FIGURE 12

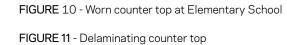




FIGURE 11



FIGURE 13

FIGURE 12 - Non-accessible restroom in Ag building

FIGURE 13 - Non-accessible entrance to classroom

Elementary School Wing

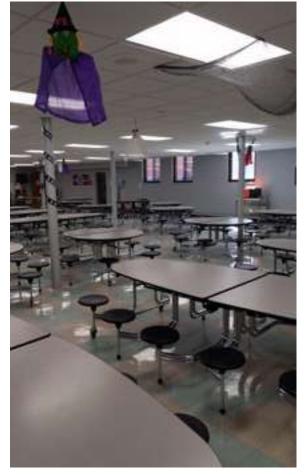














FIGURE 14

FIGURE 15

FIGURE 16

FIGURE 18

FIGURE 19

FIGURE 20

FIGURE 14 - Cafeteria in High School Building

FIGURE 15 - Kitchen in High School Building

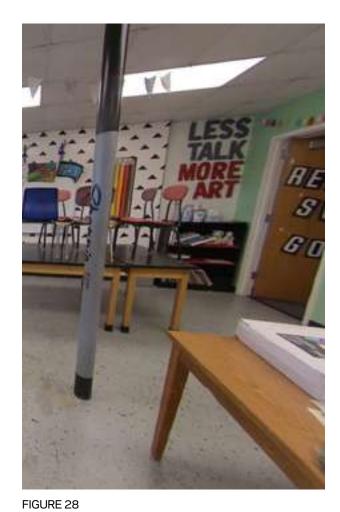
FIGURE 16 - Library in High School Building

FIGURE 18 - Library in High School Building

FIGURE 19 - Renovated locker room at High School Building

FIGURE 20 - Classroom at Elementary School

Middle/High School Wing



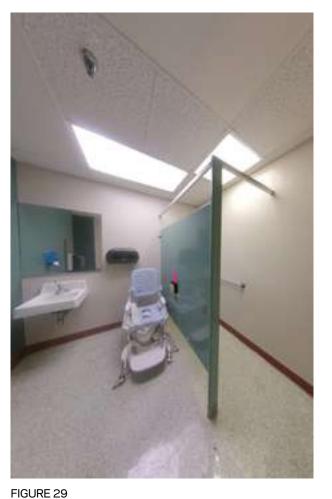




FIGURE 30

FIGURE 28 - Art room floor coating wearing through

FIGURE 29 - Non ADA compliant restroom

FIGURE 30 - View from stage into old gym - platform on gym wall appears unsafe



FIGURE 31

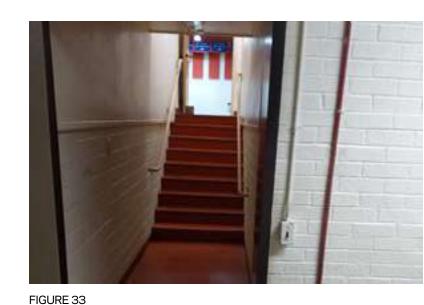


FIGURE 31 - In floor outlet creates trip hazard

FIGURE 32 - Fire extinguisher not in accessible reach range



FIGURE 32



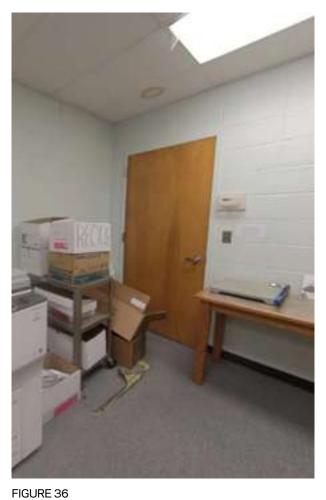
FIGURE 34

FIGURE 33 - Non-accessible route from locker room to gym

FIGURE 34 - Exposed metal structure at classroom - possibly uninsulated and may need fireproofing/sprinklered

Middle/High School Wing





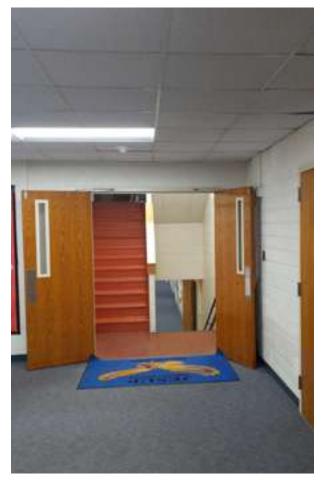


FIGURE 37



FIGURE 36 - Ripped carpet in the workroom and lack of storage

FIGURE 37 - Stairwell linking buildings - low ceiling height and lack of accessibility

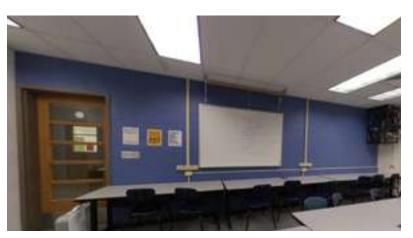


FIGURE 38

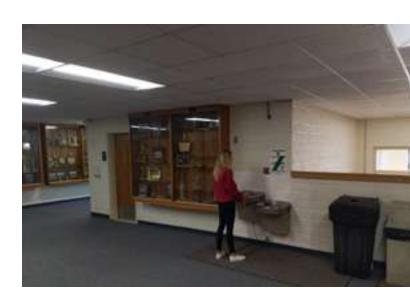


FIGURE 40



FIGURE 39 - Home Economics



FIGURE 39



FIGURE 41

FIGURE 40 - Main lobby at High School Entrance (accessible through elevator)

FIGURE 14 - Existing fitness center not accessible through school

High School Wing









FIGURE 50 FIGURE 51



FIGURE 50 - Drainage issues - washout along foundation

FIGURE 51 - Drainage issues - washout underneath concrete sidewalk



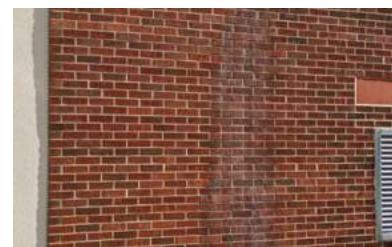




FIGURE 52 - High School ramp may not be ADA compliant

FIGURE 53 - Brick at base damaged and plastered over





FIGURE 55

FIGURE 54 - Water damage at mechanical unit louver and piping

FIGURE 55 - Overspill at downspouts - moss and mortar damage

MS/ES/EC School Wing

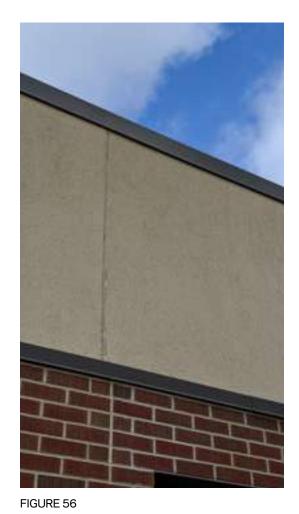






FIGURE 58

FIGURE 56 - EIFS at MS/ES joints cracking

FIGURE 57 - Disconnected downspout at middle school. Several locations where grade/rock are above flashing

FIGURE 58 - Joint between windows deteriorating - replace with flexible joint



FIGURE59

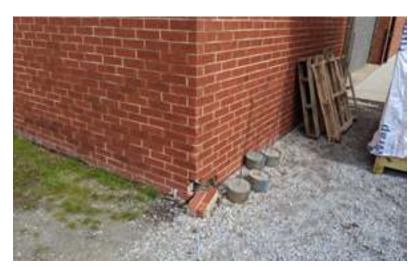


FIGURE 61

FIGURE 59- Trim and seal around overhead door damaged at Ag building

FIGURE 60 - Standing water at Ag building



FIGURE 60



FIGURE 62

FIGURE 61 - Brick deteriorating at Ag building bas

FIGURE 55 - Damaged overhead door at Admin building.

PRE-K

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- the Sies tion of own iss no kno The existing 2" water service supplies domestic water to the onlequipped with a water meter and back flow preventor.

 Existing plumbing fixtures, piping, and insulation all appear to be condition and no actions should be taken if no known issues exit one electric water heater provides domestic hot water to the early appears to be in working condition.

 One gas water heater provides domestic hot water to the new a heater is in good condition and no actions should be taken if no installed an appears to be in working condition.

 Pre-k and Kindergarten area domestic water is on a water softe action should be taken if no known issues exist.

 Existing noof drainage system is by external downspouts. Pre-K internal downspouts. Systems appear to be in good condition areas water to the new 4
 - poof = 28 M)
- 22 湯を -K and Kindergar Pre-6

- mezzar Med by rt. Com N
- umps have a refore nearing which is not? Bed roughly 15 y ssrooms with a s HVAC read area is heated and cooled by a modern value and Pre-K area is heated and cooled by a modern value is done by two boilers located in mechanical meshementary portion of the building is heated and cooled res with noise and show signs of occupant discomfort. Clancy of 15 years and these units were installed roughly expected life. Rooftop units serve multiple classrooms will old use to varying occupant comfort perception.

 The snow melt system serves the entrance ramp and entippears to be in good condition and no further action shappens. m
 - main ssues ding to

- 2.5 Jergarten and Pre-K area are served from distion panelboards are fed from the main electricands have adequate space and capacity for the mentary wing is served by branch panelboards in main electrical service in the administration eachers are using power strips due to a few or S H ci

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- oting in
- idergarten and Pre-k is LED. smentary is T8 fluorescent. ie kindergarten and Pre-k are in with the coverage of the oc The The

- consists of facture from the standard to en and Pre-k for are == r lighting in both to antrols in the elem-pency and egress is
- arre 4 10 10 10

- unications and infrastructure is in very good to excellent condition. There is CAT6 in many worked closets are tied together with fiber. Remote buildings are connected to the main bu work with fiber. There are a few wings and portions of the school that still have CATSE pretime of assessment the facilities IT department was actively working on finalizing the infrastime of assessment the facilities. Telecommu areas. Netw on the netw but at the ti
 - ney are no classroo and cape Technology within the classrooms is fair condition but is not consistent from classroom to classroom projectors are utilized fed from teachers' workstations. Technology is minimal compared as comschools. The cabling is pieced together and in several rooms, exposed and not installed to code supported or in conduit. Most of it is VGA quality display which is no longer utilized/specified. Mare technology heavy spaces, with listening enhancement, teacher amplification, interactive scree of multiple technology collaboration through high definition quality audio and video.
 Clocks – scheduling – class release. There appears to be no centralized clock system keeping the entire facility. Having the ability to keep common time and have a scheduler that communic systems across the platform would improve functionality and flexibility across the district. N
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- 1. The fire alarm system throughout the entire facility will be required to be brought up to current codes with any substantial addition or renovation project. Current code for education occupancies is a voice evacuation type system. Traditional horn strobes are presently installed and coverage spacing is maxed out. Detection is required in large venue assembly occupancy spaces, as well as corridors and gathering spaces as well as spaces that are open or exposed to said areas within education occupancy spaces. For the most part detection coverage is fair. This includes the Pre-K area built in 2016. Choir and Band rooms do not currently have smoke detection coverage. The 3rd floor corridors are covered with notification but not the classrooms.

 2. Camera coverage is fair. The facility has an expandable ExacqVision NVR with a mixture of IP and analog cameras. IP cameras give the best picture and coverage today. Facility camera coverage needs are usually based on need or perception. Coverage is dependent on what we would see in a new school but may fit the needs of lacking compared to a full coverage on the interior and exterior ensures safety of students, faculty and the district at this time. Full coverage on the interior and exterior ensures safety of students, faculty and spaces that coverage is f
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r service is not adeque:
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-oviding fully sprinkler installed, The existing water system installed in the pre-sol portion. Recommend pro PROTECTION
Middle/high school currently h
support the installation of a sg
may be adequately sized to bx
protection system of middle si

- 鲁 5 r main with a l time of the su or to have been a 2-1/2" water everified at the t ci
- ar for m
- ides hot water to this section of the but of it's expected useful life. Anticipate has adequate to recirculate hot water of in piping to connect to hot water line of y external downspouts. See architect in The middle school is served or, documentation and couldn't be verified a forumentation and couldn't be verified. Plumbing fixtures, pipes, and insulation good condition.

 A single electric water heater provides it good shape but is nearing the end of it. Recirculation piping does not appear ad recommend extending recirculation piping Existing roof drainage system is by extendion on external downspouts. 4
- w

- . The Middle school portion of the building is heated an appeared to have issues with noise and show signs of have a median life expectancy of 15 years and these nearing the end of their expected life. Rooftop units swhich is not typical for a school due to varying occupa. Bathrooms have roof-mounted exhaust fans.
- N

- s installed in the 2003 project. These panelboards for. They all appear to be in good, working condit receptacles and go above the ceiling. This violates ch panelboards i ninistration office plugged into re The middle school wing is served by branch pa from the main electrical service in the administ. There are multiple rooms where cords are plug. National Electrical Code. Some teachers are using power strips due to a
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does low pr a backf D to does also system no sprinkler m to. Water portion of the building has to connect sprinkler system

- whes apparent is not is not i. Many I red to ex ood condition ould be requir determine if r 200 ation app of types. F and vent Water heater on first floor appears to system appears to be in good condition Plumbing fixtures, pipes, and insulation had replaced faucets of inconsistent by the domestic water, drain, waste, and Public lavatories do not appear to have A recirculation system for the domestic observed during survey.

 Existing roof drainage system is by extaction on external downspouts. esi.

 - mixing valv 40
- 32. 60

- heating water throughout ear to be in good condition time of replacement. Life Three natural gas boilers of different sizes and hot water storage tank provide heating water throu northern portion of the high-school. Units were installed around 2004 and appear to be in good connorthern portion of the high-school. Units were installed around 2004 and appear to be in good conappear to have venting issues. Recommend revising venting layout entirely at time of replacement expectancy of boilers is 20-25 years.

 Classroom unit ventilators were installed in 2009 and have DX cooling and hot-water heating. Units ducted diffusers in classroom and appear to be in good condition.

 Pumps are configured in a one pump per system configuration. Pumps appear to be in in poor con Recommend replacing pumps with a combined system pumping system with redundant pumping. In investigation is required to determine exact pumping configuration.

 High school unit ventilators and fan coils units are controlled by a DDC control system.

 Offices have perimeter hydronic heating systems and mini-split cooling units. Systems appear to be condition but are aged and likely are nearing their end of life. Ventilation is not up to current code as none was observed in the office spaces.
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- is served from a General Electric 120/208 Volt, 3 phase, 4 wire, 1200 Am is main electrical service in the administration office. This distribution boals to its age it is recommended to replace this with a new distribution some to the high school due to the age of the equipment, also school are original to the building and do not have extra breaker kion to the two panelboards added for the HVAC remodel in 2009, the ton of the building. Due to their age it is recommended to replace them in they serve. 63
- # 6
 - un us
- school classrooms. cles would typically it is in good condition e 2st and 3st floor kely due to limited

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- his lot. I fixtures with integral ! cy lighting. A remodel o 4 in a
- issue to Emerge There is battery Emerge code m

SECURITY 1. Previ

COMMUNICATION 1. Previous

COMMON SPACES

Fre Fre के हैं FIRE PROTECTION 1. No existing finew water s

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Existin ed but

may require additional su ng system should be furth

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- sear to have been replaced in 2016 renovation project and are ised in project are in good condition.

 s internal grease traps that appear to be in poor condition. Receiptor outside and bringing new grease sanitary sevier linvent does not appear to be installed correctly. A floor sink is insumbed below the lip of floor sinks and therefor have no air-gag off line was not verified on the cook line.
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- mounted make-up-air unit installed in 2013. not extend beyond the edge of cooking equ cal_/HVAC then is served by a roof-in then exhaust hood does in
- ent per 44 W.4
 - n served is 15 year t installed in 2013.

 and Computer Roo iir-source heat pum make-up-air m, Media Cen pected life of a Exp room

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- rved by a roof ym, adjacent f illed in 2003 pr ir useful life. and stage is h in is only provi heated with U

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- novations and if floored (if requi ni.
- 切力 actrical service, which serves the entire service and is fed from a 1000 KVA utility dequate and is fed from a 1000 KVA utility dequate amperage capacity for future reneed breaker for a future distribution panel low ampacity rated breakers.

 Tration offices remodeled in 2005 appearement at the time of the walkthrough.

 In the school has multiple code violations code clearances for maintenance. There indemeath the hoods.

 Appenelioards in the kitchen are old and require them to be replaced. m
 - electrical properties of the selectric shapes and the selectric shapes are selectric shapes and the selectric shapes are selectric shap school kitchen. The emergency gas and E 8 5 5 olations . There 4
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- suspended a stand with integral TNG
 Lighting in the industrial tech building is su
 Lighting controls are manual on/manual of
 Emergency lighting consists of fixtures with I HINIM

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- ed during the surve ater heater is repla ndations for any rek exist no action is recommended other than potential further investater heater provides hot water to the building. Water heater appeted to water heater, water hardness is unknown so condition of wir investigation is recommended. No expansion tank was noticed of culation. Recommend installing hot water recirculation when water age system is by external downspouts. See architect recommendal If no known issues exist m A single propane water he soft water is provided to w is unknown. Further invest 4 10
 - No hot water recirculation Existing roof drainage sys action on external downsp 9
- np pump system in the bas 1
- mixing valves. Water heate valves for scaled protection h thermostatic n sostatic mixing v Sanitary system utilized a duplex sewage ejector be in good condition.

 Footing tile drainage is served by a duplex sump appears to be in good condition.

 Lavatories should be provided with thermostatic but public lavatories require thermostatic mixing 60

- the 5 Y 8 8 C system is served by two ducted propane furnaces without air of ace appears to be original to the building and appears to be in gan is recommended other than potential further investigation.

 Ulation could not be verified if adequate, but it appears there manamend measuring CO2 levels during class to determine if addition exhaust air found in janitor's closet. Recommend installing exhautric radiant heaters installed for supplemental heat in restrooms an intent or installed later to mitigate heating issues. ANICAL/HVAC
 - r fresh air intak should be prov anitor's closet. re if this was pa there may be a louver for fi e if additional ventilation sh ng exhaust fan to serve jan strooms and entry. Unsure Ni.
- was part of

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- wire, 200, and if a rer

- gen 1. The main electric service to the school is a Square D 120/240 Volt, panelboard is in very good condition. There is limited breaker space occur, an additional panelboard would need to be installed.

 2. A receptacle located on the exterior of the building does not have a **HINOS**1. Lighting in the school is mostly T8 fluorescent fortures with metal h can light fixtures in the canopy could potentially fail in colder weath fixtures should be replaced once there are performance issues.

 2. Lighting controls are manual on/manual off via standard toggle swift fixtures should be replaced once there are performance issues.

 3. Emergency lighting consists of fixtures with integral batteries.

 4. There is no emergency lighting in the entry. A battery pack fixture.

 5. There is no exterior emergency lighting. Fixtures should be installed. There is not adequate emergency lighting coverage on the stainwell. ~ £ -:

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- r to be in good conk ation. -i ni
- to be is a 2" backflow preventer, ginal to the building and a ir than potential further inv ster to the building. Water hardness is unknown so co t water to i ster hardne recommer n is rex ter is prov unknown The school is ser Plumbing fixture If no known issu A single propane shape. No soft w heating element m
- ob ler rend of Mi
 - System septic tank. ege ent and located in ba 6
 - system in the 0
- Survey.

 No bot water recirculation. Recommen Existing roof drainage system is by exaction on external downspouts.
 Sanitary system utilized a duplex sewice in good condition.
 Footing tile drainage is served by two System appears to be in good condition.
 Lavatories should be provided with the hardonies should be provided with the conditions.

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 Ventilation could not be verified if adequate, but it appears the Recommend measuring CO2 levels during class to determine if a Electric radiant heaters installed for supplemental heat in restrict design intent or installed later to mitigate heating issues.

 Sump pump basins are not provided with radon mitigation fample building.
 - a louver 8 2 ci
 - r fresh air intake, should be provided ire if this was part of 5 m
- ing if radon is 4

phase, 3 wire, 200 Amp panelbos which helps protect the building addition were to occur, an addition RICAL

The main electric service to the school is a Square D 120/240 Volt, 1 panelboard is in very good condition. It has a surge protective device system. There is limited breaker space available and if a remodel or a panelboard would need to be installed.

- Exter and Lighting in the school is 18 fluorescent fixtures for be replaced due to the potential to fail in colder we Lighting controls are manual on/manual off via sta Emergency lighting consists of fixtures with integral. There is not adequate emergency lighting coverage. There is no emergency lighting in the entry. A batt
- toggle nim of wi

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- to be nool is:
- hot water to the building. Water heater appears to be in good shap water hardness is unknown so condition of water heater heating ele condition. If no known issues exist no a A single propane water heater provides soft water is provided to water heater, eri.
 - 4 10
 - inage but believ estigation into s drai with ned issues No hot water recirculation, recomments incoming from the second drainage system is by external downspouts. See architect action on external downspouts.

 Sanitary system drains to exterior septic tank, Building owner mentione was addressed but could not confirm is problem was eliminated. Recomdrainage system to verify if problem has been corrected.

 Footing tile drainage is served by simplex sump pump system in the bar 9
 - 200 Syst 1
 - Vater mixing valv valves for thermostatic nostatic nostatic mixing v 00

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- sted in the basement and furnax in good condition. If no known is e is reaching the end of its expe without air conditioning locate addition and appears to be in westgation. Upstairs furnace I two ducted propane furnaces we sto be original to the building as of other than potential further investigated soon.

 erified if adequate, but it appears of the additional veritiation determine if additional veritiation ded with radion mitigation fan.
 - EN no action i useful life 04
 - Ventilation CO2 levels Sump pump

use load center. The poseakers which violate is no main cit. There is no main cit power at the main d The main electric service to the school and has no space available. It current required to be replaced during any acreaumes the owner to go to the electrone NEC, but it is inconvenient.

- and
- 1. Lighting in the school is T8 fluorescent fixtures for both exterior an be replaced due to the potential to fall in colder weather.
 2. Lighting controls are manual on/manual off via standard toggle switto the school.
 3. Emergency lighting consists of fixtures with integral batteries.
 4. There is no exterior emergency lighting on the original building.
 5. There is not adequate emergency lighting coverage on the stairwel.

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ENT ENERGY PERFORMANCE
Based on the previous two years of utility bills and an an energy usage intensity (EUI) of 75. This value is we fair amount of potential to increase energy efficiency

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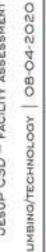












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