JR. HIGH RENOVATION FACILITY ANALYSIS



GUTHRIE PUBLIC SCHOOLS

the **stacy** group

November 19, 2013

The report attached lists items that should be addressed in a renovation of the Jr. High facility based on a review by the architect, interior designer, structural engineer, mechanical engineer, and electrical engineer.

Our conclusion is that the existing Jr. High facility can be renovated to meet the educational specifications of Guthrie Public Schools for a lower cost than building a new facility to house a Sixth Grade Center. At the end of this report are two cost estimates; one for a renovation to the existing facility and another for a new Sixth Grade Center. It should be noted that the new facility does not include an auditorium nor a gym and locker room facility as large as the existing. Rebuilding these facilities would greatly increase the cost of the new facility and widen the gap between the Jr. High renovations vs. the new school.

Items that need to be addressed include but are not limited to:

- 1. Water damage below ground level
- 2. ADA accessibility throughout the facility ramps, wheelchair lifts, railings, restrooms, door swings, egress to a public way
- 3. Reorganization and resizing of classrooms to meet standards
- 4. Updated finishes throughout doors and hardware, ceilings, flooring, paint, wall tile, restrooms, signage, wayfinding, lighting, lockers, millwork
- 5. Complete window replacement energy efficiency
- 6. Tuck-pointing the entire exterior
- 7. Minor settling repairs
- 8. Electrical upgrades per electrical report
- 9. Secure vestibule
- 10. HVAC upgrades and replacement per mechanical report
- 11. Fire sprinkler system including updated fire alarm

These items and others could be prioritized and instituted in phases if necessary.



building data record

Date of Appraisal:	October 22, 2013		
Name of Appraise	r: <u>Sean Willis, James Parizek, Allison Curran</u>		
Building Name:	Guthrie Jr. High		
Street Address:	704 E Oklahoma Ave		
City/Town, State,	Zip Code: <u>Guthrie, OK 73044</u>		
Telephone Numbe	er(s):405-282-5936		
School District:	Guthrie Public Schools		
Setting:	\Box Urban \Box Suburban \blacksquare Small City \Box Rural		
	Site-Acreage: <u>2.4 +/-</u> Building Square Footage: <u>86,000</u>		
	Grades Housed: 7-8 Student Capacity:		
Number of Teaching Stations: Number of Floors: _ 3			
	Student Enrollment:504 as of		
	Dates of Construction: <u>1924</u> , 1936, 1952		
Energy Sources:	□ Fuel Oil ■ Gas ■ Electric □ Solar		
Air Conditioning:	\square Rooftop \square Window Units \square Central \square Room Units		
Heating:	□ Central □ Rooftop □ Roof Units □ Unit Heaters □ Forced Air □ Steam □ Hot Water		
Type of Construct	ion: ■ Load Bearing Masonry ■ Steel Frame ■ Concrete Frame □ Wood □ Other:		
Exterior Surfacing	g: Brick Stucco Metal Wood		
Floor Constructio	n: 🛛 Wood Joists 🖓 Steel Joists 🖓 Slab on Grade Structural Slab 🖓 Other:		

appraisal guide for school facilities

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
15	0	3	6	9	12	15
20	0	4	8	12	16	20
25	0	5	10	15	20	25

Table of Weights and Categories

Appraisal Summary

Section	Possible Points	Total Earned	Percent	Rating By Category
1.0 The School Site	100	76	76	S
2.0 Structural and Mechanical	200	133	66	В
3.0 Plant Maintainability	100	51	51	В
4.0 School Building Safety & Security	200	107	54	В
5.0 Educational Adequacy	200	115	58	В
6.0 Environment for Education	200	140	70	S
TOTAL	1,000	622	62	В

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1.0 The School Site (100 points)

1.1	Site is large enough to meet educational needs as defined by state and local requirements. (Counting the adjacent land for playground use)	25	20
1.2	Site is easily accessible and conveniently located for the present and future population. Good location in center of town.	20	15
1.3	Location is removed from undesirable business, industry, traffic, and natural hazards.	10	6
1.4	Site is well landscaped and developed to meet educational needs.	10	8
1.5	Well equipped playgrounds are separated from streets and parking areas. No area for outdoor play	10	10
1.6	Topography is varied enough to provide desirable appearance and without steep inclines.	5	5
1.7	Site has stable, well drained soil free of erosion	5	4
1.8	Site is suitable for special instructional needs , e.g. outdoor learning. Few outdoor classroom areas available.	5	3
1.9	Pedestrian services include adequate sidewalks with designated crosswalks, curb cuts, and correct slopes. Need ADA access to main entry.	5	1
1.10	Sufficient on-site, solid surface parking is provided for faculty, staff and community. Parking located across street from school.	5	4
	TOTAL SCHOOL SITE	100	76

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
15	0	3	6	9	12	15
20	0	4	8	12	16	20
25	0	5	10	15	20	25

appraisal guide for school facilities

2.0 Structural and Mechanical Features (200 points)

Structural

2.1	Structure meets all barrier-free requirements both internally and externally.	15 10
2.2	Roofs appear sound, have positive drainage, and are weather tight. Roof replaced 5 years ago.	15 13
2.3	Foundations are strong and stable with no observable cracks. Basement walls are water damaged - underground perimeter should be excavated and water-proofed. Termite damage needs repaired.	10 8
2.4	Exterior and interior walls have sufficient expansion joints and are free of deterioration. Some movement observed - refer to structural report.	10 6
2.5	Entrances and exits are located so as to permit efficient student traffic flow. Good - open floor plan - ADA is main concern.	10 6
2.6	Building "envelope" generally provides for energy conservation (see criteria). Multi-wythe brick not energy efficient - windows should be replaced.	10 4
2.7	Structure is free or friable asbestos and toxic materials (by observation only, without any test reports). Testing for asbestos is required.	10 4
2.8	Interior walls permit sufficient flexibility for a variety of class sizes. Internal walls could be relocated for larger classrooms.	10 4

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
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Mechanical/Electrical

2.9	Adequate light sources are well maintained, properly placed and are not subject to overheating.	15	12
2.10	Internal water supply is adequate with sufficient pressure to meet health and safety requirements.	15	12
2.11	Each teaching/learning area has adequate convenient wall outlets , phone and computer cabling for technology applications . Classrooms will need additional power and data.	15	10
2.12	Electrical controls are safely protected with disconnect switches easily accessible. See electrical report.	10	10
2.13	Drinking fountains are adequate in number and placement, and are properly maintained and meet requirements. All drinking fountains should be replaced.	10	10
2.14	Number and size of restrooms meet requirements. Restrooms are inadequate for ADA and should be updates	10	4
2.15	Drainage systems are properly maintained and meet requirements.	10	4
2.16	Fire alarms, smoke detectors, and sprinkler systems are properly maintained and meet requirements. Not all classrooms have horn/ strobes - system needs updated.	10	6
2.17	Intercommunication system consists of a central unit that allows dependable two-way communication between office and instructional areas.	10	6
2.18	Exterior water supply is sufficient and available for normal usage.	5	4

TOTAL – STRUCTURAL AND MECHANICAL FEATURES

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
15	0	3	6	9	12	15
20	0	4	8	12	16	20
25	0	5	10	15	20	25

133

200

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3.0 Plant Maintainability (100 points)

3.1	Exterior windows, doors, and walls are of material and finishing requiring minimum maintenance. All exterior windows and doors are past their useful life.	15	3
3.2	Floor surfaces throughout the building require minimum care. Painted floors should be covered with flooring more resistant to slipping.	15	10
3.3	Ceilings and walls throughout the building, including service areas, are easily cleaned and resistant to stain.	10	6
3.4	Built-in equipment is designed and constructed for ease of maintenance.	10	6
3.5	Finishes and hardware, with compatible keying system, are of durable quality. All hardware should be replaced to meet ADA.	10	2
3.6	Restroom fixtures are wall mounted and of quality finish. All fixtures should be replaced - water savings.	10	2
3.7	Adequate custodial storage space with water and drain is accessible throughout the building.	10	6
3.8	Adequate electrical outlets and power, to permit routine cleaning, are available in every area.	10	8
3.9	Outdoor light fixtures, electric outlet outlets , equipment, and other fixtures are accessible for repair and replacement.	10	8
	TOTAL – PLANT MAINTAINABILITY	100	51

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
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20	0	4	8	12	16	20
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In general - the school is in need of renovation for ADA accessibility. There are many areas only accessible by stairs. The code requires spending a max of 20% of budget on accessibility unless the item is structurally infeasible. Ramps, or wheelchair lifts should be included. Also, door hardware, horn/ strobe alarms, rest rooms, door swings should be corrected.

4.0 Building Safety and Security (200 points)

Site Safety

4.1	Student loading areas are segregated from other vehicular traffic and pedestrian walkways Drop off on street	15 6
4.2	Walkways, both on and offsite are available for safety of pedestrians. Sidewalks should be replaced.	10 4
4.3	Access streets have sufficient signals and signs to permit safe entrance to and exit from school area. Access to kitchen could be improved.	5 4 5 3
4.4	Vehicular entrances and exits permit safe traffic flow. Somewhat tight site - in neighborhood - no off-street drop off areas.	5 3
4.5	Playground equipment is free from hazard. No outdoor play	5
Build	ling Safety	
4.6	The heating unit(s) is located away from student occupied areas. Unit heaters are exposed at ceiling in many rooms	20 16
4.7	Multi-story buildings have at least two stairways for student egress. Stairs need new handrails and there are some dead-end corridors.	15 6
4.8	Exterior doors open outward and are equipped with panic hardware. All doors and hardware should be replaced.	10 2
4.9	Emergency lighting is provided throughout the building with exit signs on separate electrical circuits.	10 6
4.10	Classroom doors are recessed and open outward. Classroom doors should be replaced - step at some classrooms needs repaired.	10 4
4.11	Building security systems are provided to assure uninterrupted operation of the educational program. No secure vestibule - access control to be integrated	10 2

Maximum		Very				
Points	Non-	Inadequate	Poor	Borderline	Satisfactory	Excellent
Allotted	Existent	(1-29%)	(30-49%)	(50-69%)	(70-89%)	(90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
15	0	3	6	9	12	15
20	0	4	8	12	16	20

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	25	0	5	10	15	20	25	
4.12	Flooring a non-slip o All treads ne	condition.	1	iirways) is ma	iintained in		5	3
4.13	(maximum	7" rise to 1	,	minimum sta l steps range : guardrails.			5	3
4.14	1	1 0	ated and protection	ected with wi ent injury.	re or safety		5	4
4.15	than eight	inches fron	the traffic ar n the corridor will need walls of	eas do not ex wall. prrelocated.	tend more		5	3
4.16	Traffic are an egress.	e as termina Not all egres	ate at an exit s is accessible r	or a stairway hor do they lead	leading to to a public way	/.		
Eme	rgency Safet	у					15	9
4.17			equipment is of fire extinguis	s properly loc shers.	ated.		15	9
4.18			-	nt exits from n correct locati	any point in on for proper eg	ress	15	9
4.19				throughout t red vertical exit			15	9
4.20				alarm syste t are provided chool needs fire			200	107

TOTAL – BUILDING SAFETY AND SECURITY

Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
5	0	1	2	3	4	5
10	0	2	4	6	8	10
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25	0	5	10	15	20	25

appraisal guide for school facilities

Typically the classrooms are too small for ideal class size. The walls in-between the classrooms can be removed to allow for a new classroom layout through the school.

5.0 Educational Adequacy (200 points)

Academic Learning Size

5.1	Size of academic learning areas meets desirable standards. Most classrooms too small for desired class size.	25	15
5.2	Classroom space permits arrangements for small group	15	10
	activity. Not currently - to small.		
5.3	Location of academic learning areas is near related	10	8
	educational activities and away from disruptive noises. Most group areas are away from classrooms.		
5.4	Personal space in the classroom away from group	10	6
	instruction allows privacy time for individual students.		
5.5	Storage for student materials is adequate	10	4
0.0	Storage for student materials is adequate. All lockers need replaced - if desired to be used.		
5.6	Storage for teacher materials is adequate. Classrooms need more millwork		
Speci	alized Learning Space	15	10
1	0 1		
5.7	Size of specialized learning area(s) meets standards. Need dedicated classrooms.	10	6
5.8	Size of specialized learning area(s) is compatible with		
	instructional need.	10	4
5.9	Library/Resource/Media Center provides appropriate		
	and attractive space. Media center is small and needs updating - layout, technology.	5	3
5.10	Gymnasium (or covered P.E. area) adequately serves		
5.10	physical education instruction.	10	10
	Gym has heat only - locker rooms need renovated.	10	
5.11	Pre-kindergarten and kindergarten space is appropriate		
	for age of students and nature of instruction. N/A	5	5
5 10	Marsia was supervised and a supervised supervised and as		

5.12 **Music program** is provided adequate sound-treated space. Could use acoustical treatment but room size is appropriate.

Maximum		Very				
Points	Non-	Inadequate	Poor	Borderline	Satisfactory	Excellent
Allotted	Existent	(1-29%)	(30-49%)	(50-69%)	(70-89%)	(90-100%)
5	0	1	2	3	4	5



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10	0	2	4	6	8	10	
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- 5.13 **Space for art** is appropriate for instruction, supplies, and equipment.
- 5.14 **Space for technology education** permits use of state-of-the-art equipment. New computer lab needed.
- 5.15 Space for **small groups and remedial instruction** is provided adjacent to classrooms. New small classrooms needed.
- 5.16 Storage for student and teacher material is adequate.

Support Space

- 5.17 **Teacher's lounge and work areas** support teachers as professionals.
- 5.18 **Cafeteria/kitchen** is attractive with sufficient space for seating/dining, delivery, storage, and food preparation. Cafe/kitchen need renovations - ADA access and more functional layout.
- 5.19 Administrative offices are consistent in appearance and function with the maturity of the students served. Administration should be redesigned and incorporated with secure vestibule.
- 5.20 Counselor's office insures privacy and sufficient storage.
- 5.21 **Clinic** is near administrative offices and is equipped to meet requirements.
- 5.22 **Suitable reception space** is available for students, teachers, and visitors.
- 5.23 Administrative personnel are provided sufficient work space and privacy.

TOTAL – EDUCATIONAL ADEQUACY

5	3
5	3
5	3
5	3
10	4
10	4
5	3
5	3
5	3
5	2
5	3
200	115

Maximum		Very					
Points	Non-	Inadequate	Poor	Borderline	Satisfactory	Excellent	



appraisal guide for school facilities

Allotted	Existent	(1-29%)	(30-49%)	(50-69%)	(70-89%)	(90-100%)
5	0	1	2	3	4	5
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20	0	4	8	12	16	20
25	0	5	10	15	20	25

6.0 Environment for Education (200 points)

Exterior Environment

6.1	Overall design is aesthetically pleasing and appropriate for the age of students. Existing building is well designed but needs updated.	15	6
6.2	Site and building are well landscaped.	10	8
6.3	Exterior noise and surrounding environment do not disrupt learning.	10	8
6.4	Entrances and walkways are sheltered from sun and inclement weather.	10	8
6.5	Building materials provide attractive color and texture. Exterior needs tuck-pointing.	5	4
Inter	ior Environment	00	8
6.6	Color schemes, building materials, and décor provide an impetus to learning. Interior environment could be improved.	20	12
6.7	Year around comfortable temperature and humidity are provided throughout the building.		
6.8	Ventilating system provided adequate quiet circulation of clean air and meets 15 cfm VBC requirement.	15	12
6.9	Lighting system provides proper intensity, diffusion, and distribution of illumination.	15	12
6.10	Sufficient drinking fountains and restroom facilities are conveniently located. Quantity ok but need updating. Dispersed throughout facility.	10	4
0.11	Communication among students is subsused in the		

6.11 **Communication among students** is enhanced in the commons area. Only commons area is cafe and it is divided and does not encourage interaction.

appraisal guide for school facilities

	Maximum Points Allotted	Non- Existent	Very Inadequate (1-29%)	Poor (30-49%)	Borderline (50-69%)	Satisfactory (70-89%)	Excellent (90-100%)
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	15	0	3	6	9	12	15
	20	0	4	8	12	16	20
	25	0	5	10	15	20	25
6.12 6.13	Bad access to Areas for st	o cafe. udents to i	appropriate fo nteract are su locker locations	itable to the		[10 6 10 8
6.14	of students.		designed for ef but good centro		agement	[10 8
6.15	Acoustical t effective sour		f ceilings, wall	ls, and floors	provides	[10 8
6.16	Window des A lot of nature] r	10 8 10 8				
6.17	Furniture an Could be upd	nd equipme lated.	ent provide a p	leasing atmo	osphere.	l	10 8
	тот	TAL – ENV	IRONMENT	FOR EDU	CATION	[200 140

Maximum		Very				
Points	Non-	Inadequate	Poor	Borderline	Satisfactory	Excellent
Allotted	Existent	(1-29%)	(30-49%)	(50-69%)	(70-89%)	(90-100%)
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20	0	4	8	12	16	20
25	0	5	10	15	20	25



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Termite Damage



Egress below grade



Movement at previous addition line



Step down into classroom



Step up into restroom—ADA upgrades



Renovate Auditorium



Water repair—new seating/ lighting



New lockers/ flooring/ finishes



Exterior needs tuckpointing



Heating/ seating/ lighting/ finishes



Clean up exterior utilities/ alley access



Egress stair not to code



Locker rooms need full renovation



Café access difficult—poor visiblity



Cooler/ freezer located outside



All windows should be replaced



Water damage below grade



Kitchen needs reorganized/ updated



Some settling observed—easily corrected



Brick needs tuckpointing



Non-accessible egress path



Movement at elevator—new windows



Gym exterior in better condition



Elevator—some movement



November 8, 2013

Mr. Sean Willis, Studio Director THE STACY GROUP 222 East 10th Street Plaza Edmond, Oklahoma 73034

Re: Guthrie Junior High Initial Scope Visit Wallace Engineering Project Number 1311059

Sean:

On Tuesday, October 22nd, I visited the Guthrie Junior High School with you for the purpose of observing the current condition, document any structural distress and deterioration seen, and to provide an opinion on the structural integrity of the building. My observation was limited to a visual survey of areas readily available to view, both interior and exterior.

It is my understanding the junior high was built in 1924 with additions and remodels in 1936, 1956 and 1990. The building is a reinforced cast-in-place concrete structure with exterior walls comprised of masonry with a brick and stone veneer. The first level is built partially below grade and has several level changes. The main entrance is at the second level approximately 8-feet above finish grade. This level has two-story volumes for the auditorium and library, part of which was originally a basketball court. The third level has classrooms on the north, east and west sides surrounding the upper portion of the auditorium and library. The roof structure above the auditorium and library is framed with steel trusses and purlins. The roof for the remainder of the building could not be determined visually.

A two-story addition was added to the west side in 1936 and now houses the Shop classrooms and Band and Vocal classrooms. This structure is also reinforced cast-in-place concrete.

An elevator was added to the southeast corner of the building during one of the later renovations.

OBSERVATIONS

In general, the structure for the building is in good condition with minor damage or distress in various locations. However, the damage and distress observed should be easily repaired.

In several locations along the north wall at the first level, damage to the plaster finish and substrate has been caused by water infiltration. Pictures 1, 2 and 3.

Wallace Engineering Structural Consultants, Inc. 200 East Brady Street Tulsa, Oklahoma 74103 918,584,5858, Fax 918,584,8689 www.wallacesc.com

Distress due to settlement was seen at several interior locations on the first floor, the most noticeable at the unoccupied room adjacent to the office below the entry and at the interior stairs down to the Shop classroom. Pictures 4 and 5.

The elevator shaft addition has shifted away from the main building opening a joint of approximately ¾-inch at the second level and wider as it goes up to the roof. Pictures 6, 7 and 8.

Water infiltration has damaged the plaster around one of the windows in the upper level of the auditorium. Pictures 9 and 10.

Several of the steel lintel angles on the north elevation have deteriorated somewhat. The amount of deterioration could not be determined during the observation. No noticeable distress was observed in the brick veneer supported by the lintel. No pictures.

The brick veneer has been repointed at a few locations. The original distress was likely due to settlement. Picture #11.

Reinforcing for the exterior stair between the original building and the 1936 addition is exposed and rusting. Picture #12.

DISCUSSION

As stated earlier, the damage and distress is minor in nature and can be readily repaired. The structure is in good condition with no major distress or damage observed.

It should be noted that although the building was likely designed to be in conformance with the governing codes in force at the time of the construction of each portion of the building, changes to the structure to accommodate architectural changes could result in major retrofit requirements for the structure.

Please do not hesitate to contact me if you wish to discuss this information or would like Wallace Engineering to do an exhaustive survey of the building and provide construction documents for repair.

Respectfully,

WALLACE ENGINEERING IRAL CONSULTANTS, INC. ESSION Charles Alan Wall ALAN WALL Principal 15867



Picture #1 – Water Damage at First Level



Picture #2 – Water Damage at First Level



Picture #3 – Water Damage at First Level



Picture #4 – Settlement Crack Between Wall and Ceiling in Storage Room







Picture #6 - Separation at Threshold of Elevator at Second Level



Picture #7 – Separation at Threshold of Elevator at Third Level



Picture #8 - Separation of Elevator Shaft From Main Building



Picture #9 - Water Damage to Plaster at Upper Level of Auditorium



Picture #10 - Water Damage to Plaster at Upper Level of Auditorium



Picture #11 - Repointed Mortar Joints



Picture #12 – Exposed Reinforcing on Bottom Surface of Exterior Stair

ENGINEERING ASSESSMENT FOR GUTHRIE JUNIOR HIGH SCHOOL OKLAHOMA CITY, OKLAHOMA

Project

November 15, 2013

MECHANICAL:

ITEM: SITE AND GENERAL

General:

The existing facility is a three story building originally built in 1924 and modified throughout the years with the last modifications and upgrades performed in 1997. The mechanical system is comprised of exposed two-pipe fan coil units and gas-fired/DX cooling packaged rooftop units. A central plant room located on the ground floor has (3) condensing boilers and associated pumps for both chilled water and heating water. Piping is routed on the exterior to an outside air-cooled chiller. Additionally there are two Energy Recovery Units located on the roof that provide the ventilation load or outside air for the building. One serves the Auditorium and one provides outside air via ductwork throughout the building to individual classrooms and spaces.

Kitchen exhaust is routed on the exterior of the building to the roof with its make-up air fan mounted to the exterior wall.



The existing Gym is heated only. There are six heaters, three on each side of the Gym. Only two of the six heaters are working. The lockers located below the Gym are heated only as well.



The building does not have a fire suppression system.

Existing physical condition:

All existing mechanical systems and equipment are approximately 15 years of age. The fan coil units are in fair to poor condition. Existing roof top units and energy recovery systems are also approximately 15 years of age. The 90 ton air-cooled chiller is in fair condition, however it should be noted this unit is a single compressor design. Should the compressor fail cooling is lost to the entire two-pipe system. The boilers and associated pumps are in good condition. The existing ductwork, that could visibly be inspected, is comprised of galvanized sheet metal and ductboard and is in good condition. We could not ascertain any of the toilet rooms exhaust condition or if it is working.

The existing drawings indicate condensate from the fan coils is discharged into the existing perimeter drain tile. We did not find any existing information on this drain tile or if it discharges into sump or if it exists.

The existing basement has original boiler and air handler abandoned in place. The sump pump in this room must be maintained in working condition. There were no working lights at the time of our inspection.



The plumbing fixtures are in good to fair condition. Piping sizes and condition could not be determined. We believe there is a combination of galvanized water piping and copper. According to facility staff, much of the old piping has been replaced with newer through the years, but only on an as needed basis or as part of a larger project.

General Code and Life Safety Compliance:

Non-Compliance with ADA for accessible fixtures. Boiler venting to the exterior does Not comply with current codes.



Possibility of continued use or adaptive re-use

The size and capacity, as well as the age, limits the re-use of any of the existing HVAC systems. The median life expectancy of packaged rooftop and fan coil equipment is 15 years. The ductwork is in usable condition, however ductboard cannot be easily modified. The roof curbs could possibly be re-used and adapted to new units.

The plumbing fixtures could be possibly be reused to some extent. However, low consumption fixtures are now required by Code limiting adaptive use of these fixtures The piping systems re-use would depend on size and location.

Suggested program or course of action

Replace packaged rooftop units and fan coil units with new. If possible relocate fan coil units to corridor and duct into classroom. As a minimum, provide fan coils with ECM motors in lieu of belt drive and higher insulated enclosures to reduce noise. Provide new chiller with multiple compressors.

Plumbing systems would need to be updated to comply with ADA accessibility requirements and current codes. If new flush valve is required, replace entire fixture to comply with low water consumption

mandates.

ELECTRICAL:

ITEM: SITE AND GENERAL

General:

The existing building is a three story building originally built in 1924 and modified throughout the years with the largest modification and upgrade being performed in 1997. The electrical distribution system was reworked at that time. A new 480Y/277v Square D main panel was installed along with a Square D 150kva step down transformer and 800 amp 208/120v distribution panel SDP all located on the first level. The new MDP serves the RTUs, chiller, step down transformer and various panels throughout the building. These panels were also replaced during the 1997 upgrade. The service enters the building from the transmission lines along the alley behind the building. The telephone pedestal is also located across the alley. The electric service comes in underground from a dip pole somewhat obscured by trees in the photo below:



Existing physical condition:

The gear is approximately 16 years old and still has useful life. There are numerous spares and spaces available for future use. The lighting in the classrooms was also replaced in the 1997 renovation and appears to be in good working order utilizing T8 fluorescent lamping. Emergency lighting is evident in the corridors on the path of egress.

General Code and Life Safety Compliance:

The MDP, 150 kva transformer and SDP are not located within an electrical room and the school is using the working space in front of the gear to access a work table as seen below: Though working clearance appears to be met, the students are standing in the working clearance to work at the table. This condition appears to be unsafe and we would strongly recommend enclosing the electrical equipment in a room to keep the students from coming into contact with the electrical distribution equipment. The 150kva transformer is very hot and is not large enough to provide the total ampacity available by the 800 amp 208 volt SDP. The staff mentioned they need more power within the classrooms, which is common for remodels to meet the needs for computers and additional systems.

The lighting was replaced in 1997 but emergency lighting needs to be installed within the classrooms to adhere to current code requirements. Emergency lighting at all exit discharge locations appears to be deficient as well.

Though fire alarm devices were installed in the 1997 renovation, they were not installed in all the classrooms as is the current requirement. The auditorium will require voice evac and the existing fire alarm system will have to be assessed whether it can handle the expansion of all the new visual devices and the voice evac.



Possibility of continued use or adaptive re-use

MDP contains some ampacity for additional power, but the transformer must be enlarged to provide more 208 volt power for general receptacles and isolated ground receptacles for computers. There should be enough capacity in the 800 amp 208 volt panel and plenty of spaces exist to add breakers but there is not enough physical space for a larger transformer in the current location. Space must be made for a new transformer or it could possibly be located outside.

Suggested program or course of action

Provide a new larger transformer to feed the existing 800 amp 208 volt distribution panel SDP. This transformer and panel SDP can be fed from the existing 480 volt MDP by providing a new breaker in the existing MDP. Provide new receptacles and isolated ground panels for all computer circuits desired within the existing classrooms and throughout the building. Provide power as required for all mechanical equipment modifications mentioned above and also provide a GFCI service receptacle within 25 feet of all equipment. Provide all required emergency lighting. Expand or replace the existing fire alarm system to handle all the additional devices required.

Guthrie Public Schools

Jr. High Renovation

11.12.13

COST ESTIMATE

1.0 PR	OJECT CONSTRUCTION COST	S		
			Cost	Remarks
1.1	Jr High	71156	\$6,404,040	
1.2	Gymnasium	16125	\$1,370,625	
1.3	Design and Construction Contingency	Allowance	\$640,404	а
	Subtotal Construction Costs		\$8,415,069	
2.0 PR	OJECT SOFT COSTS			
2.1	Architectural/Engineering Fees		\$504,904	с
2.2	Furniture, Furnishings and Equipment	(FF&E)	\$288,182	d
2.3	Printing - Lump Sum		\$10,000	е
2.4	Civil Engineering		\$85,000	
2.5	Kitchen Consultant		\$15,000	
2.6	Landscape Consultant		\$15,000	
2.7	Site Survey - Lump Sum		\$8,000	
2.8	Soils Testing		\$3,000	
2.9	Materials Testing		In Bid	
2.10	City Fees		5	е
2.11	Computers, Data Cabling, Smart Board	ls	5	е
	Subtotal Project Soft Costs		\$929,086	
3.0 PR	OJECT TOTAL COST			
	Total Project Cost		\$9,344,155	
Notes		· · ·		
a. Calculated	d at 10%.			
o. Calculate	d at 6%.			
c. Calculated	d on 6% fee.			
d. Calculate	d at 4.5%.			
e. Estimated	l costs.			

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Guthrie Public Schools

Jr. High Replacement (New 6th Grade Center) 11.12.13

COST ESTIMATE

1.0 PR	OJECT CONSTRUCTION COST	TS		
			Cost	Remarks
.1	New 6th Grade Center	50000	\$8,250,000	
.2	Auditorium	25000	\$4,625,000	
.3	Design and Construction Contingency	y Allowance	\$825,000	а
.4	Land Cost		\$350,000	е
1.5	Lagoon		\$800,000	е
	Subtotal Construction Costs		\$14,850,000	
			ψ11,000,000	
2.0 PR	OJECT SOFT COSTS			
2.1	Architectural/Engineering Fees		\$891,000	с
2.2	Furniture, Furnishings and Equipmen	it (FF&E)	\$371,250	d
2.3	Printing - Lump Sum		\$10,000	e
2.4	Civil Engineering		\$85,000	-
2.5	Kitchen Consultant		\$15,000	
2.6	Landscape Consultant		\$15,000	
2.7	Site Survey - Lump Sum		\$8,000	
2.8	Soils Testing		\$3,000	
2.9	Materials Testing		In Bid	
2.3	City Fees		?	е
2.10	Computers, Data Cabling, Smart Boar	rda	5	
2.11	Computers, Data Cabing, Shiart Doar	us	<u>.</u>	е
	Subtotal Project Soft Costs		\$1,398,250	
3.0 PK	OJECT TOTAL COST			
			.	
	Total Project Cost		\$16,248,250	
Notes				
. Calculated	d at 10%			
D. Calculate				
	d on 6% fee.			
d. Calculate				
e. Estimated				
. Esumated	I COSIS.			