Building Information - Willoughby-Eastlake City SD (45104) - Royalview Elementary School

Program Type Expedited Local Partnership Program (ELPP)

Setting Suburban

Assessment Name Royalview E_2010_TCI

Assessment Date 2010-03-16

Cost Set: 2010

Building Name Royalview Elementary School

Building IRN 32904

Building Address 31500 Royalview Dr

Building City Willowick
Building Zipcode 44094

Building Phone 440/944-3130

Acreage 9.00

Current Grades K-5

Teaching Stations 47

Number of Floors

Student Capacity 1175

Current Enrollment 829

Enrollment Date 2010-04-01

Enrollment Date is the date in which the current enrollment was taken.

Number of Classrooms 47

Historical Register

NC

Building's Principal Ms. Tamee Tucker

Building Type Elementary

North elevation photo:







South elevation photo:

West elevation photo:





GENERAL DESCRIPTION

85,554 Total Existing Square Footage

1956,1958,1962,1966 Building Dates

K-5 Grades

829 Current Enrollment

47 Teaching Stations

9.00 Site Acreage

Royalview Elementary, which is not on the National Register of Historic Buildings, and originally constructed in 1956, is a 2 story, 85,554 square foot brick school building located in a suburban residential setting. The existing facility features a conventionally partitioned design, and does not utilize modular buildings. The structure of the overall facility contains steel frame brick veneer exterior wall construction, with concrete block wall construction in the interior. The floor system consists of slab on grade first floor with metal deck and joist system on the second floor. The roof structure is primarily metal deck and bar joist. The roofing system of the overall facility is built-up asphalt with gravel ballast, installed in 1956. The ventilation system of the building is inadequate to meet the needs of the users. The Classrooms are adequately sized in terms of the current standards established by the State of Ohio. Physical Education and Student Dining spaces consist of one Multipurpose space. The electrical system for the facility is inadequate. The facility is not equipped with a compliant security. The building does have a compliant automatic fire alarm system. The facility is not equipped with an automated fire suppression system. The building is reported to contain asbestos and other hazardous materials. The overall building is not compliant with ADA accessibility requirements. The school is located on 9 acres of a 27.7 campus site shared with and ajoined to Willowick Middle School adjacent to residential properties. The property and playgrounds and play areas athletic facilities are partially fenced for security. Access onto the site is unrestricted. Site circulation is fair / poor. There is dedicated space for school buses to load and unload on the site. Parking for staff, visitors and community events is adequate.

The overall facility roof is the original system and is failing in several areas. The canopy on the north side of the 1966 Addition is visually unlevel. Beams are substantially rusted and the foundation has settled unlevel.

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Building Construction Information - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904)

Name	Year	Handicapped Access	Floors	Square Feet
1956 Original	1956	no	1	27,967
1958 Addition	1958	no	1	10,658
1962 Addition	1962	no	1	4,360
1966 Addition	1966	no	2	42,569

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Building Component Information - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904)

Addition	Auditorium Fixed Seating	Corridors	Agricultural Education Lab	Primary Gymnasium	Media Center	Vocational Space	Student Dining	Kitchen	Natatorium	Indoor Tracks	Adult Education	Board Offices	Outside Agencies	Auxiliary Gymnasium
1956 Original (1956)		5188												
1958 Addition (1958)		1386												
1962 Addition (1962)		566												
1966 Addition (1966)		8923		3529	2041			389						
Master Planning	. Consideratio	ns												

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Existing CT Programs for Assessment

Next Page

Previous Page

Program Type Program Name Related Space Square Feet
No Records Found

Legend:

Not in current design manual

In current design manual but missing from assessment

Building Summary - Royalview Elementary School (32904)

Dist	ict: \/	Villoughb	, Eas	stlake City	. en				Co	unty:	Lake		Aroa	: Northeastern Ohio	. (9)		
Nam				nentary So						ntact:	Ms. Tamee	Tucko		i. Northeastern Onit	(6)		
		1500 Roy		-	511001					one:	440/944-313						
Auu		Villowick,									: 2010-03-16	50	Bv.	Karen L Walker			
Blda	v IRN: 3 .		OΠ 4	4094						•	2010-03-16		By: By:	Karen L Walker			
\vdash	ent Grad			K-5	Acreage	٥.		9.0	_		aisal Summar	.,	Dy.	Nateri L Walker			
_	osed Gr			N/A	Teachin		ions:	47		ошт г дррга	ilsai Summai	y					
	ent Enro			829	Classro		10113.	47	-1		Section			Points Possible	Points Earned	Percentage	Rating Category
		rollment		N/A	Olassio	01113.				Cover Sheet				(•	((
Addit		Date	НА		r of Floor	s C	urrent S	quare Fe	— Г	1.0 The Scho	ool Site			100	71	71%	Satisfactory
	Origina		_		1				1		l and Mechar	ical F	eature	s 200	105	53%	Borderline
	Addition		+		1					3.0 Plant Ma				100	65	65%	Borderline
	Additio		_		1						Safety and Se	curity		200	153	77%	Satisfactory
	Additio		+		2						nal Adequacy			200	140	70%	Satisfactory
Tota		_		1							ent for Educa			200	139	70%	Satisfactory
		*HA	=	Handicap	ped Acc	ess			_	LEED Obser				•	(((
		*Rating	=1	Satisfacto	ory				2	Commentary				•	(((
		· ·		Needs Re						Total				1000	673	67%	Borderline
			=3	Needs Re	eplaceme	ent			[Enhanced Er	nvironmental	Hazar	ds Ass	sessment Cost Estin	<u>nates</u>		
		*Const P/	'S =	Present/S	Schedule	d Con	struction										
	FA	CILITY AS	SSES	SMENT				Dolla	ar	C=Under Co	ntract						
		Cost S	et: 20	010		Rating	As	ssessme									
<u>(</u> A		g System	<u>1</u>			3	\$2,7	80,505.0		Renovation (104.16%
<u>(a</u> B.		_				3		06,108.2	-		vate (Cost Fa		• •	<u>, </u>			\$15,342,115.45
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<u>a</u> D		cal Syste				3		81,795.2	9-1	requesteu irc	nn a master r	iaii.					
E	_	ing and F	ixtur	<u>es</u>		3		50,078.0	-								
<u>6</u> F.						3	-	96,766.0	-								
<u>ſ</u> G	_	ure: Foun				2		20,000.0	\rightarrow								
ii H	_			Chimney	<u>S</u>	2	\$1	10,563.0	-								
<u>a</u> I.	_	ure: Floor		d Roots		1	04.0	\$0.0	-								
ŭ J.	_	al Finishe	_			3		02,099.2	-								
<u>6</u> K.		r Lighting				3		27,770.0	-								
☐ L.☐ M		ty Systen	_	ighting		3		35,273.5	-								
in M		<u>lency/Egr</u>	<u> </u>	<u>-igriung</u>		3		85,554.0 28,331.0	$\overline{}$								
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G Q		ge Systen	n			3		90,000.0	-								
□ Q ☐ R	_	Supply				3		80,000.0	\rightarrow								
S.	_	or Doors				3	-	56,000.0	-								
<u>™</u> T.	_	dous Mat	erial			3		94,590.0	\rightarrow								
TO U	_					3		28,050.5	\rightarrow								
O V		Furnishir	ngs			2		56,662.0	-								
6 W	_					3		57,910.2	-								
- X	_	ruction Co	ontino	gency /		-		91,924.3	-								
		onstruction							Ш								
Total							\$14,7	29,373.5	1 1								

Previous Page

1956 Original (1956) Summary

Dist	rict:	Willo	uahby	-Fas	tlake City	SD				Co	unty:	Lake		Area	: Northeastern Ohi	n (8)		
Nam					nentary So						ntact:	Ms. Tam	ee Tucke			- (-)		
		3150			•						one:	440/944-						
			wick,C								te Prepared:			By:	Karen L Walker			
Bldo	ı. IRN	: 3290	,		1001						te Revised:			By:	Karen L Walker			
_	ent Gr				K-5	Acreage:			9.00	_	CEFPI Appra			_,.				
		Grade	s		N/A	Teaching	Statio	ons:	47				,					
<u> </u>		rollme			829	Classroor			47	T		Section	n		Points Possible	Points Earned	l Percentage	Rating Category
		Enrollr			N/A					<u> </u>	Cover Sheet				((((
Addit				НА		r of Floors	Cı	urrent Sc	uare Fee	et 1	1.0 The Scho	ol Site			100	71	71%	Satisfactory
1956	Orig	inal	1956	_		1	1 -		27,9	67 2	2.0 Structural	and Mecl	nanical F	eatures	<u>s</u> 200	105	53%	Borderline
1958	3 Addit	tion	1958	no		1			10,6	58	3.0 <u>Plant Mai</u>	ntainabilit	Y		100	65	65%	Borderline
1962	2 Addit	tion	1962	no		1					4.0 Building S				200	153	77%	Satisfactory
1966	Addit	<u>tion</u>	1966	no		2					5.0 Education				200	140	70%	Satisfactory
Total	l								85,5	54	6.0 Environm	ent for Ed	<u>ucation</u>		200	139	70%	Satisfactory
		*HA		=	Handicap	ped Acces	ss			L	_EED Observ	<u>rations</u>			(((•
		*Rat	ting	=1	Satisfacto	ory				2	Commentary				((•	(
				=2	Needs Re	epair				_	Total				1000	673	67%	Borderline
				=3	Needs Re	eplacemen	t			E	Enhanced En	vironmen	tal Hazar	ds Ass	essment Cost Estin	<u>nates</u>		
		*Coi	nst P/S	3 =	Present/S	Scheduled	Cons	truction										
	F				SMENT				Dolla	' 	C=Under Cor	ntract						
	1		ost Se		10	R	ating		sessmen	-								404400/
<u>□</u> A	_	ating S	<u>ystem</u>				3		08,927.50	1	Renovation C				`			104.16%
<u>6</u> B		ofing	(• • •				3		30,317.35	+	Cost to Reno			• •	,			\$5,609,275.06
C C	_				litioning		1		5,000.00	Н.	i ne Repiacei requested fro			ana tne	e Renovate/Replace	ratio are only p	oroviaea wnen	tnis summary is
<u>6</u> D	_	ctrical	_				3		34,388.44	╙┸	oquociou no	m a maon						
<u>©</u> E		mbing	and Fi	ixture	<u>es</u>		3		7,069.00	+								
	_	idows					3 2	\$21	73,196.90	+								
G H	_	ucture			on Chimneys		2	Φ.	\$0.00	+								
<u>~</u> 1.					I Roofs	2	1	Ψ	\$0.00	+								
<u> </u>		neral F			110013		3	\$43	34,851.60	+								
ŭ K	_	rior Lig					3		39,835.00	+								
G L	_	urity S		ıs			3		6,909.25	+								
M	_				ighting		3		27,967.00	+								
M M		Alarm			<u> </u>		3		1,950.50	+								
<u></u> O		ndicapp		cess	 S		2	-	8,791.70	+								
<u>™</u> P	_	Cond			-		2		19,212.20	+								
<u>G</u> Q		vage S		1			3	\$2	22,500.00) -								
₫ R		ter Sur					3	-	20,000.00	+								
<u>™</u> S	Exte	erior D	oors				3	\$3	86,000.00) -								
🛅 T	Haz	ardou	s Mate	erial			3	\$6	64,750.00) -								
🛅 U	Life	Safety	<u> </u>				3	\$9	0,892.75	5 -								
ŭ∨	Loo	se Fur	nishin	<u>gs</u>			2	\$8	3,901.00) -								
<mark></mark>	V. <u>Tec</u>	hnolog	17				3	\$21	5,066.23	3 -								
- X		nstructi n-Cons			ency /		-	\$1,05	57,324.80	-								
Total	ı							\$5,38	35,248.72	2								

1958 Addition (1958) Summary

District: Willoug	ahby.	Fact	laka Cit	v SD			I	County:	Lake	Ares	a: Northeastern Ohi	0 (8)		
Name: Royalvi				•				Contact:	Ms. Tamee Tuck		a. Northeastern One	0 (0)		
Address: 31500				0011001				Phone:	440/944-3130					
Willowi	•							Date Prepared		By:	Karen L Walker			
Bldg. IRN: 32904	ioit, O		001					Date Revised:		By:	Karen L Walker			
Current Grades			K-5	Acreag	e:		9.00	CEFPI Appr	aisal Summary					
Proposed Grades			N/A	Teachi		ations:	47							
Current Enrollment	t		829	Classro			47		Section		Points Possible	Points Earned	l Percentage	Rating Category
Projected Enrollme			N/A					Cover Sheet	<u>!</u>		•	(((
Addition D	Date	НА	Numb	er of Floo	ors	Current S	quare Feet	1.0 The Sch	ool Site		100	71	71%	Satisfactory
1956 Original 1	956	no		1			27,96	2.0 Structura	al and Mechanical	<u>Feature</u>	<u>s</u> 200	105	53%	Borderline
1958 Addition 1	958	no		1				3.0 <u>Plant Ma</u>			100	65	65%	Borderline
1962 Addition 1	962	no		1					Safety and Securit	<u>:y</u>	200	153	77%	Satisfactory
1966 Addition 1	966	no		2			42,56	59 5.0 Education	nal Adequacy		200	140	70%	Satisfactory
<u>Total</u>							<u>85,55</u>		nent for Education		200	139	70%	Satisfactory
*HA		= H	Handica	pped Acc	ess			LEED Obser	rvations		•	(((
*Ratin	g	=1 5	Satisfac	tory				Commentary	L		((•	(
		=2 N	Needs F	Repair				Total			1000	673	67%	Borderline
		=3 N	Needs F	Replacem	ent			Enhanced E	nvironmental Haza	ards Ass	sessment Cost Estir	<u>nates</u>		
*Cons	t P/S	= F	Present	Schedule	d Co	nstruction		0.11-10-						
FACILITY							Dollar	C=Under Co	ntract					
		t: 201	10		Ratir		sessment	- Renovation	Cost Footor					104.16%
A. Heating Sys	tem				3	<u> </u>	46,385.00		ovate (Cost Factor	applied	N			\$1,931,557.30
☐ B. Roofing☐ C. Ventilation /	Air C	- - -	tioning		1	\$1	60,604.67 \$0.00		•		e Renovate/Replace	a ratio are only i	rovided when	
D. Electrical Sy			lloriirig		3	¢1	84,596.56		om a Master Plan.	and the	e rrenovate/rreplace	e ratio are only p	novided when	uns summary is
E. Plumbing an		_			3	_	10,206.00	-						
F. Windows	IU I I	<u>kture</u> ;	<u>s</u>		3		12,372.80	-						
G. Structure: F	Foun	datio	on		2	Ψ,	\$0.00	_						
H. Structure: W				/S	2		\$9,780.00	-						
I. Structure: FI					1		\$0.00	-						
J. General Fini					3	\$1	61,738.40	-						
K. Interior Light	ting				3	\$	53,290.00	-1						
L. Security Sys	stems	<u>s</u>			3	\$	29,309.50	-						
M. Emergency/	Egre/	ss Li	ghting		3	\$	10,658.00	-						
M. Fire Alarm					3	\$	15,987.00	-						
O. Handicappe	d Ac	cess			2	\$	63,165.80	-						
P. Site Condition	<u>on</u>				2	\$	15,987.00	-						
Q. Sewage Sys	stem				3	\$	22,500.00	-						
R. Water Suppl	ly				3	\$	20,000.00	_						
S. Exterior Do	ors				3		\$0.00	-						
T. Hazardous M	Mate	<u>rial</u>			3		25,170.00	-						
U. Life Safety					3		34,638.50	-						
V. Loose Furnis	shing	<u>18</u>			2		31,974.00	_						
W. Technology					3		81,960.02	-						
- X. Construction Non-Constru					-	\$3	64,090.44	_						
Total						\$1,8	54,413.69							

1962 Addition (1962) Summary

District: Willoughby-Eastl	ake City	, SD			C	County:	Lake	Are	ea: Northeastern Oh	io (8)		
Name: Royalview Eleme	ntary S	chool			c	ontact:	Ms. Tamee Tuo	ker				
Address: 31500 Royalview	Dr				F	hone:	440/944-3130					
Willowick,OH 44	094					ate Prepared:	2010-03-16	By:	: Karen L Walker			
Bldg. IRN: 32904					[C	ate Revised:	2010-06-23	By:	: Karen L Walker			
Current Grades	K-5	Acreage:			9.00	CEFPI Apprais	sal Summary					
Proposed Grades	N/A	Teaching	Station	ns:	47		,					
Current Enrollment	829	Classroon	ns:		47		Section		Points Possible	Points Earned	d Percentage	Rating Category
Projected Enrollment	N/A					Cover Sheet			•	•	•	(
Addition Date HA	Numbe	r of Floors	Cur	rent Squa	are Feet	1.0 The School	ol Site		100	71	71%	Satisfactory
1956 Original 1956 no		1			27,967	2.0 Structural	and Mechanical	Feature	<u>es</u> 200	105	53%	Borderline
1958 Addition 1958 no		1				3.0 Plant Main			100	65	65%	Borderline
1962 Addition 1962 no		1					afety and Securi	<u>ty</u>	200	153	77%	Satisfactory
<u>1966 Addition</u> 1966 no		2			42,569	5.0 Education	al Adequacy		200	140	70%	Satisfactory
<u>Total</u>					85,554	6.0 Environme	ent for Education		200	139	70%	Satisfactory
*HA = H	andicap	ped Acces	s			LEED Observa	ations		(•	•	(
*Rating =1 S	atisfacto	ory				Commentary			•	•	•	(
=2 N	eeds Re	epair				Total			1000	673	67%	Borderline
=3 N	eeds Re	eplacement	t			Enhanced Env	vironmental Haza	ards As	sessment Cost Estir	<u>nates</u>		
*Const P/S = P	resent/S	Scheduled (Constr	uction								
FACILITY ASSESS	MENT				Dollar	C=Under Con	tract					
Cost Set: 201	0	R	ating	Asse	ssment C	+						
A. Heating System			3	\$141,	700.00 -	Renovation Co						104.16%
B. Roofing			3	\$68,	369.70 -	.	ate (Cost Factor		·			\$819,568.25
C. Ventilation / Air Condi	ioning		1		\$0.00 -				e Renovate/Replace	e ratio are only p	provided when	this summary is
D. Electrical Systems			3	\$75,	515.20 -	requested from	n a Master Plan.					
E. Plumbing and Fixtures	<u>.</u>		3	\$35,	620.00 -							
F. Windows			3	\$52,	474.90 -							
G. Structure: Foundation	<u>n</u>		2		\$0.00 -							
H. Structure: Walls and C	himney	<u>s</u>	2	\$4,	988.50 -							
I. Structure: Floors and	Roofs		1		\$0.00 -							
J. General Finishes			3	\$64,	528.00 -							
K. Interior Lighting			3	\$21,	800.00 -							
L. Security Systems			3	\$11,	990.00 -							
M. Emergency/Egress Lig	hting		3	\$4,	360.00 -							
N. Fire Alarm			3	\$6,	540.00 -							
O. Handicapped Access			2	\$24,	836.00 -							
P. Site Condition			2	\$6,	540.00 -							
Q. Sewage System			3		500.00 -							
R. Water Supply			3	\$20,	000.00 -							
S. Exterior Doors			3		\$0.00 -							
T. Hazardous Material			3		810.00 -							
U. Life Safety			3		170.00 -							
V. Loose Furnishings			2	\$13,	- 080.080							
W. Technology			3		528.40 -							
- X. Construction Contingent Non-Construction Cos			-	\$154,	485.17 -							
Total				\$786,	835.87							

1966 Addition (1966) Summary

Distric	t: Willo	uahby-	Fast	lake City	SD				Co	ounty:	Lake		Area	a: Northeastern Ohio	n (8)		1
Name:				entary S						ontact:	Ms. Tamee Tu	cker			<i>(</i> 0)		
	ss: 3150			•						none:	440/944-3130	0					
		wick,C								ate Prepared:			By:	Karen L Walker			
Bldg. I	RN: 3290									ate Revised:			By:	Karen L Walker			
Current	Grades			K-5	Acreage:			9.00		CEFPI Appra	isal Summary						
	ed Grade	s		N/A	Teaching S	Station	าร:	47			,						
Current	Enrollme	ent		829	Classroom			47			Section			Points Possible	Points Earned	l Percentage	Rating Category
Projecte	ed Enrollr	nent		N/A						Cover Sheet				((((
Addition	<u>n</u>	Date	<u>HA</u>	Numbe	r of Floors	Cur	rent Squ	uare Fee	<u>~</u> ।	1.0 The Scho				100	71	71%	Satisfactory
1956 O	riginal	1956	no		1			27,9	67	2.0 Structural	and Mechanica	al Fe	ature	<u>s</u> 200	105	53%	Borderline
1958 A	<u>ddition</u>	1958	no		1					3.0 Plant Mai				100	65	65%	Borderline
1962 A	ddition	1962	no		1						Safety and Secu	rity		200	153	77%	Satisfactory
1966 A	ddition	1966	no		2			42,5	69	5.0 Education	al Adequacy			200	140	70%	Satisfactory
<u>Total</u>								<u>85,5</u>	<u>54</u>		ent for Education	<u>n</u>		200	139	70%	Satisfactory
	*HA		= F	Handicap	ped Access	S				LEED Observ	rations			(•	(•
	*Rat	ting	=1 5	Satisfacto	ory					Commentary				((((
			=2 N	Needs Re	epair					Total				1000	673	67%	Borderline
			-		eplacement				ļ	Enhanced En	vironmental Ha	zard	ls Ass	sessment Cost Estin	<u>nates</u>		
	*Co	nst P/S	6 = F	Present/S	Scheduled C	Constr	uction			0 11-1 0						1	
	FACILI				D-	. 4:	۸	Dollar		C=Under Cor	itract						
<u>6</u> A. ⊩		ost Se	t: 201	10		ating 3		essment 3,492.50	-	Renovation C	ost Factor						104.16%
	Heating S Roofing	ystem				3		5,492.50 5,816.57	\Box		vate (Cost Facto	or ar	nnlied)			\$6,981,714.84
	√entilation	\ / Air (Condi	tioning		1	φ340	\$0.00	+		•		•	e Renovate/Replace	ratio are only i	rovided when	. , ,
	Electrical			tioning		3	\$737	7,295.08	-		m a Master Plai		na tine	o recordiant topiade	ratio are erily p	novidod wilon	uno cummary io
	Plumbing	_	_			3		7,183.00	+								
	Vindows	ana i i	Attarot	<u></u>		3		3,721.44	+								
	Structure:	Found	lation			2		0,000.00	+								
	Structure:					2		9,397.00	+								
	Structure:			•		1		\$0.00	1-1								
🛅 J. 🤇	General F	inishes	3			3	\$640	0,981.20	-								
<u>ĭ</u> K. <u>I</u>	nterior Lig	ghting				3	\$212	2,845.00	1-1								
🛅 L. 🙎	Security S	ystem	<u>s</u>			3	\$117	7,064.75	<u>-</u>								
<u>Га</u> М. <u>Е</u>	Emergeno	y/Egre	ss Li	ghting		3	\$42	2,569.00	-								
	Fire Alarm					3	\$63	3,853.50	<u> -</u>]								
<u>6</u> O. <u>⊦</u>	Handicapp	oed Ac	cess			2	\$322	2,006.90	-								
	Site Cond	<u>ition</u>				2	\$63	3,853.50	1-1								
	Sewage S					3		2,500.00	+								
	Nater Sup					3		0,000.00	+								
	Exterior D					3		0,000.00	\vdash								
	Hazardou:		<u>rial</u>			3		1,860.00	+								
	_ife Safety					3		3,349.25	+								
	_oose Fur		<u> 18</u>			2		7,707.00	4-1								
	<u>Fechnolog</u>	~				3		7,355.61	1-1								
	Constructi Non-Cons					-	\$1,316	5,023.93									
Total							\$6,702	2,875.23									

A. Heating System

Description:

The existing heating system for the overall facility is composed of two major hot water boilers centrally located in the main mechanical room which were installed in 1956. The units are in good condition. The heating system in the overall facility is part of the Original Construction and is a 2-pipe system supplying hot water heating. With very limited capacity for simultaneous heating and cooling operation, this system is not compliant with the OSDM requirements for basic system type. The forced draft hot water boilers, manufactured by Steampak were installed in 1956 and are in decent condition. Heating hot water is distributed to terminal units consisting of unit ventilators, cabinet heaters, unit heaters, and fin tubes. The terminal equipment was installed in 1956 and new with each addition and is in fair condition. The system does not comply with the 15 CFM per person fresh air requirements of the Ohio Building Code mechanical code and Ohio School Design Manual. The non DDC type system temperature controls were installed in 1956 and are in working condition. The system does feature individual heating temperature controls in all spaces required by the OSDM. The overall system does not feature any central energy recovery systems. The facility is equipped with louvered interior doors in classrooms, storage and utility rooms to facilitate Corridor utilization as return air plenums while the classrooms have a return air systems. The existing system is not ducted, and floor to structural deck heights will not accommodate the installation of properly sized ductwork for a future Ohio School Design Manual approved system. The overall heating system is evaluated as being not in safe and efficient working order, though long term life expectancy of the existing system is anticipated. The structure is not equipped with central air conditioning. The site does not contain underground fuel tanks that are currently in use.

Rating: 3 Needs Replacement

Recommendations: Provide new overall heating, ventilating, and air conditioning system to achieve compliance with Ohio Building Code and Ohio School Design

Manual standards. Convert to ducted system to facilitate efficient exchange of conditioned air.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
HVAC System	\$25.00	sq.ft		Required	Required	Required	Required	\$2,138,850.00	(includes demo of existing system and reconfiguration
Replacement:									of piping layout and new controls, air conditioning)
Convert To Ducted	\$7.50	sq.ft		Required	Required	Required	Required	\$641,655.00	(includes cost for vert. & horz. chases, cut openings,
System									soffits, etc. Must be used in addition to HVAC System
Replacement									Replacement if the existing HVAC system is
									non-ducted)
Sum:			\$2,780,505.00	\$908,927.50	\$346,385.00	\$141,700.00	\$1,383,492.50		





Typical Unit Ventilator

Gas Fired Hot Water Boilers

B. Roofing

Description:

The roof over the 1956 Original Construction, 1958 Addition, and 1962 Addition is a built-up system that are original to each area and are in poor condition. The roof over the 1962 Addition is a built-up system that was installed in 1989 and is in poor condition. There are District reports of current leaking in the 1966 Gymnasium, near the joint between the 1958 Addition, 1956 Original Construction and 1966 Addition, near the girls restroom in the 1956 Original Construction, in the area between the 1962 Addition and the 1958 Addition, and in several other locations. Signs of past leaking were observed during the physical assessment, including damage to the masonry walls due to water infiltration. The roof leaks extensively. Access to the roof was gained by access hatches that are in poor condition. Fall safety protection cages are not required. There were observations of standing water on the roof, particularly on the canopy of the 1966 Addition. Metal cap flashings are in poor condition. Roof storm drainage is addressed through a system of roof drains which are properly located, and in poor condition. The roof is not equipped with overflow roof drains though they are needed on this building. Roof penetrations are in poor condition consistent with the roofing materials. There are covered walkways attached to this structure. The covered walkway on the 1956 Original Construction is steel structure with built-up roof construction and is in poor condition. The covered walkways on the 1966 Addition are masonry columns, steel structure and built-up roof and are in poor condition.

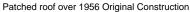
Rating: 3 Needs Replacement

Recommendations:

The roof over the overall facility requires replacement to meet Ohio School Design Manual guidelines for age of system and due to condition. Include insulation in roof replacement. The flashing and coping on the overall facility require replacement due to condition. Due to existing conditions roof drains require replacement. Two roof hatches require replacement. Gutters and downspouts on the community room area of the 1956 Original Construction require replacement.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
			_	27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Membrane (all types):	\$8.27	sq.ft.		29,505	11,221 Required	4,610 Required	24,491 Required	\$577,469.29	(unless under 10,000 sq.ft.)
		(Qty)		Required					
Repair/replace cap flashing and	\$17.50	ln.ft.		1,157 Required	355 Required	120 Required	791 Required	\$42,402.50	
coping:									
Gutters/Downspouts	\$12.50	ln.ft.		160 Required				\$2,000.00	
Remove/replace existing roof	\$1,200.00	each		10 Required	3 Required	2 Required	9 Required	\$28,800.00	
Drains and Sump:									
Overflow Roof Drains and Piping:	\$2,500.00	each		8 Required	3 Required	2 Required	5 Required	\$45,000.00	
Roof Insulation:	\$4.50	sq.ft.		28,903	11,221 Required	4,610 Required	23,363 Required	\$306,436.50	(tapered insulation for limited
		(Qty)		Required					area use to correct ponding)
Roof Access Hatch:	\$2,000.00	each		1 Required			1 Required	\$4,000.00	(remove and replace)
Sum:			\$1,006,108.29	\$430,317.35	\$160,604.67	\$68,369.70	\$346,816.57		







Covered walkway on 1966 Addition

C. Ventilation / Air Conditioning

Description: The overall facility is not equipped with a central air conditioning system. Window units are provided in miscellaneous locations such as offices,

library, and media center. The ventilation system in the overall facility consists of unit ventilators and ducted air handlers installed initially in 1956 and are in fair condition, providing fresh air to classrooms and other miscellaneous spaces such as Gymnasiums, Student Dining, Media Center etc. Relief air venting is provided by relief fans and roof vents. The ventilation system does not meet the Ohio Building Code 15 CFM per occupant fresh air requirement. The overall system is not compliant with Ohio Building Code and Ohio School Design Manual requirements. Dust collection systems are not required in this facility and no system is provided. The Art program is equipped with a kiln, and existing kiln ventilation is without a hood, and is in working condition. Exhaust systems for Restrooms, Locker Rooms, Kitchen, Gymnasiums, Storage Rooms, Custodial

Closets and Career Tech specialized areas are adequately placed, and in working condition.

Rating: 1 Satisfactory

Recommendations: Provide an air conditioning system to meet with Ohio Building Code and Ohio School Design Manual requirements. Pricing included in Item A.

Provide kiln exhaust system for kiln listed in item J.

Item	Cost	Unit	Whole Building	1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Kiln Exhaust System:	\$5,000.00	each		1 Required				\$5,000.00	
Sum:			\$5,000.00	\$5,000.00	\$0.00	\$0.00	\$0.00		





Split Air Condenser Unit & Exhaust Fans

Art Kiln Unit

D. Electrical Systems

Description:

The electrical systems provided to the overall facility is a dual voltage system of a 800 amp 120/240 volt, 1 phase, 3 wire original system from the year 1956, and is in fair condition. An up-graded second power system of 1200 amps at the voltage of 120/240 volt 3 phase 3 wire incorporated in the year 1966. Power is provided to the school by pole mounted utility owned transformers. The main distribution panel cannot be expanded to add additional capacity that would be required by the OSDM air conditioning requirements. The Classrooms are not equipped with adequate electrical outlets in some of the original areas per OSFC recommendations. The typical Classroom contains usually 2 to 3 general purpose outlets with certain classrooms having added outlets used for Classroom computers, and television. There are some spaces that have no electrical outlets such as storage areas and Janitor Closets. Most Corridors are equipped with adequate electrical outlets for electrical servicing. Adequate GFI protected exterior outlets are not provided around the perimeter of the building. The facility is not equipped with an emergency generator. There is a 100 amp emergency panel 'E', which feeds items such as exit lights, emergency lights and the Fire Alarm panel. Panel 'E' is fed directly from a 30 amp 240 V. disconnect switch. Adequate building lightning protection safeguards are not provided. The overall electrical system does not meet Ohio School Design Manual requirements, and will be inadequate to meet the facility's future needs.

Rating: 3 Needs Replacement

Recommendations: The entire electrical system requires replacement to meet Ohio School Design Manual guidelines for overall capacity due to lack of OSDM - required features and to accommodate the addition of an air conditioning system.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
System	\$17.32	sq.ft.		Required	Required	Required	Required	\$1,481,795.28	(Includes demo of existing system. Includes generator for life
Replacement:									safety systems. Does not include telephone or data cable or equipment) (Use items below ONLY when the entire system is NOT being replaced)
Sum:			\$1,481,795.28	\$484,388.44	\$184,596.56	\$75,515.20	\$737,295.08		





Main Utility Switch Electric Utility Meter

E. Plumbing and Fixtures

Description: The school contains 3 Large Group Restrooms for boys, 3 Large Group Restrooms for girls, and 6 Restrooms for staff. First floor kitchen area

contains 1 triple bowl sink, 1 hand sink and 1 electric water cooler. Boys' first floor Large Group Restrooms contain 6 non-ADA wall mounted flush valve toilets, 12 non-ADA wall mounted flush valve urinals, 7 non-ADA wall mounted lavatories. Girls' first floor Large Group Restrooms contain 15 non-ADA wall mounted flush valve toilets, as well as 7 non-ADA wall mounted lavatories. Staff Restrooms contain 4 non-ADA wall mounted flush valve toilets, and 4 non-ADA wall mounted lavatories. The facility class rooms are equipped with 4 non-ADA wall mounted flush valve toilets, 1 non-ADA wall mounted lavatory. 5 non ADA class room sinks in good condition, 2 electric water coolers, 3 drinking fountains in good condition, 1 double bowl Kitchen sink and 1 mop sink. Condition of fixtures is good. The school does not meet the OBC requirements for fixtures. ADA requirements are not met for fixtures and drinking fountains see Item O. Custodial Closets are properly located and are adequately provided

with required service sinks, which are in fair condition. Adequate exterior wall hydrants are provided.

Rating: 3 Needs Replacement

Recommendations: Provide all new plumbing fixtures, faucets and flush valves to replace the existing because of ADA requirements and condition of old plumbing fixtures. Replace existing water heater with new high efficient gas fired water heaters. The recommendation for domestic water piping is in section

R. The recommendation for sanitary drainage piping is in section Q.

Item	Cost	Unit	Whole Building	1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Back Flow Preventer:	\$5,000.00	unit		1 Required				\$5,000.00	
Domestic Supply Piping:	\$3.50	sq.ft.		Required	Required	Required	Required	\$299,439.00	(remove / replace)
Sanitary Waste Piping:	\$3.50	sq.ft.		Required	Required	Required	Required	\$299,439.00	(remove / replace)
Domestic Water Heater:	\$5,100.00	per unit		1 Required	1 Required	1 Required	1 Required	\$20,400.00	(remove / replace)
Toilet:	\$3,800.00	unit		21 Required			8 Required	\$110,200.00	(new)
Urinal:	\$3,800.00	unit		8 Required			4 Required	\$45,600.00	(new)
Sink:	\$2,500.00	unit		10 Required	5 Required		9 Required	\$60,000.00	(new)
Electric water cooler:	\$3,000.00	unit		3 Required	1 Required			\$12,000.00	(double ADA)
Two Station Modular Lavatory	\$3,000.00	unit		39 Required	5 Required		22 Required	\$198,000.00	(remove / replace
Sum:			\$1,050,078.00	\$467,069.00	\$110,206.00	\$35,620.00	\$437,183.00		





Toilet room fixtures

Toilet room fixtures

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F. Windows

Description: The overall facility is equipped with non-thermally broken aluminum frame windows with single glazed non-insulated glazing type window system,

which were installed at the dates of construction, and are in poor condition. Window system seals are in poor condition, with frequent air and water infiltration being experienced. Window system hardware is in poor condition. The window system features surface mounted blinds, which are in moderate condition. The window system is not equipped with insect screens on operable windows. Aluminum and hollow metal frame storefront window systems, with single tempered and non-tempered glazing are found in the overall facility and are in fair to poor condition. This facility does not feature any glass block windows. The school does not contain skylights. Window security grilles are not provided for ground floor

windows. There is not a Greenhouse associated with this school.

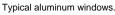
Rating: 3 Needs Replacement

Recommendations: Provide a new insulated window system with integral blinds to meet with Ohio School Design Manual requirements. Replace curtainwall/storefront

system.

Item	Cost	Unit	Whole	1.000 0.1.9	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Insulated Glass/Panels:	\$57.10	sq.ft.		3,846 Required	1,968 Required	919 Required	2,456 Required	\$524,691.90	(includes blinds)
		(Qty)							
Curtain Wall/Storefront	\$64.18	sq.ft.		835 Required			288 Required	\$72,074.14	(remove and
System:		(Qty)							replace)
Sum:			\$596,766.04	\$273,196.90	\$112,372.80	\$52,474.90	\$158,721.44		







Typical aluminum windows.

G. Structure: Foundation

Description: The 1956 Original Construction foundation starter course masonry with trench concrete footings. Information for the 1958 Addition is not

available. The 1962 and 1966 Additions are masonry with trench concrete footings. Dampproofing is not called out on the overall facility and perimeter insulation is minimal. Locations of significant differential settlement, and cracking, were observed at the 1966 entry canopy addition. The District reports that there has been no past leaking. Some grading / site drainage deficiencies were noted around the perimeter of the

structure that could contribute to foundation / wall structural deterioration.

Rating: 2 Needs Repair

Recommendations: Provide foundation reinforcement at the entry canopy location of the 1966 addition.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Other: Repair foundation	\$2,500.00	per					8 Required	\$20,000.00	Repair settled concrete pier
concrete.		unit							foundations.
Sum:			\$20,000.00	\$0.00	\$0.00	\$0.00	\$20,000.00		





Typical foundation condition.

Typical foundation condition.

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H. Structure: Walls and Chimneys

Description:

The overall facility has a brick veneer on a masonry bearing wall system, which displayed locations of deterioration, and is in fair condition. The exterior masonry appears to have inappropriately spaced and adequately caulked control joints in poor condition. Control joints are not provided at lintel locations at doors and windows. The school has sufficient expansion joints, and they are in poor condition, particularly the expansion joint between the 1966 Addition and Willowick Middle School which is visibly separating beyond the width of the expansion joint. The exterior masonry has not been cleaned and sealed in recent years, and shows evidence of mortar deterioration on the South wall of the 1956 Original Construction particularly, on most of the piers of the 1956 Original Construction and the 1958 Addition, and the masonry piers of the canopies at the 1966 Addition. Interior walls are concrete masonry units and are in fair condition. Interior masonry appears to have no caulked control joints and cracking is apparent, possibly from water infiltration from the roof. Soffits are in poor condition. The window sills are an element of the aluminum window system, and are in poor condition. The exterior lintels are steel, and are rusting and in fair to poor condition. Chimneys are in poor condition with deteriorated grout throughout and a damaged precast coping. Canopies over entrances are cement board or asbestos panel type construction, and are in poor condition.

Rating: 2 Needs Repair

Recommendations:

Provide tuckpointing in all areas of mortar deterioration as required through the overall facility. Replace brick damaged by water infiltration and rusting lintels as required in the 1956 Original Construction, 1958 Addition, and 1966 Addition. Provide masonry cleaning and sealing as required through the overall facility. Recaulk existing control joints. Replace masonry lintels as required in the 1956 Original Construction and the 1966 Addition. Scrape, prime and paint lintels as required through the overall facility. Re-build the top four feet of chimney and replace the precast coping. Install control joints. Cost for canopies and soffits included in item I.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Tuckpointing:	\$5.00	sq.ft. (Qty)		2,562 Required	93 Required	114 Required	239 Required	\$15,040.00	(wall surface)
Exterior Masonry Cleaning:	\$1.50	sq.ft. (Qty)		6,965 Required	2,760 Required	1,479 Required	8,212 Required	\$29,124.00	(wall surface)
Exterior Masonry Sealing:	\$1.00	sq.ft. (Qty)		6,965 Required	2,760 Required	1,479 Required	8,212 Required	\$19,416.00	(wall surface)
Exterior Caulking:	\$5.50	ln.ft.		10 Required		52 Required	104 Required	\$913.00	(removing and replacing)
Replace Brick Veneer System:	\$35.00	sq.ft. (Qty)		277 Required	29 Required		61 Required	1' '	(total removal and replacement including pinning and shoring)
Lintel Replacement:	\$250.00	ln.ft.		40 Required			25 Required	\$16,250.00	(total removal and replacement including pinning and shoring)
Coping Replacement Stone and Masonry:	\$100.00	ln.ft.		23 Required				\$2,300.00	(remove and replace)
Install Control Joints	\$60.00	ln.ft.		27 Required	4 Required			\$1,860.00	
Other: Prep and Paint Steel Lintels	\$5.00	ln.ft.		501 Required	232 Required	87 Required	63 Required	\$4,415.00	sand, prime, and paint lintels
Other: Steel Lintel Replacement	\$150.00	ln.ft.					56 Required		Replace steel support beams at entry canopy.
Sum:			\$110,563.00	\$56,397.50	\$9,780.00	\$4,988.50	\$39,397.00		







Damaged lintels and brick at 1956 Original Construction

I. Structure: Floors and Roofs

Description: The floor construction of the base floor of the overall facility is concrete slab on grade construction, and is in fair condition. There is no crawl

space The floor construction of second floor of the 1966 Addition is bar joists with metal deck and lighweight concrete construction, and is in good condition. Ceiling to structural deck spaces are insufficient to accommodate HVAC, electrical, and plumbing scopes of work in required renovations. Conversion to a ducted system would require lowering the ceiling height from 10 feet. The roof construction of the overall facility is

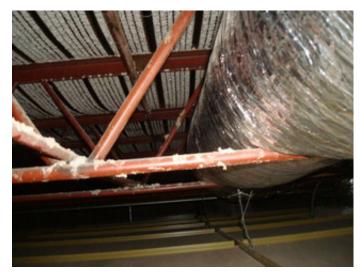
metal deck on bar joists and is in fair condition. The 1956 Original Construction also has portions of concrete slab.

Rating: 1 Satisfactory

Recommendations: Replace canopies and soffits per item H.

Item	Cost	Unit	Whole Building	1956 Original (1956)	1958 Addition (195	8) 1962 Addition (1962	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Sum:			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		





Roof

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J. General Finishes

Description:

The overall facility features conventionally partitioned Classrooms with vinyl tile flooring in fair to poor condition, acoustical tile ceilings in poor condition, as well as painted block wall finishes in fair to poor condition. The overall facility has Corridors with vinyl tile and terazzo flooring in fair condition, acoustical tile ceilings in poor condition, as well as glazed block wall finishes in good condition. The overall facility has Restrooms with ceramic mosaic tile flooring in good condition, acoustical tile ceilings in poor condition, as well as glazed block wall finishes in good condition. Toilet partitions are metal, and are in fair to poor condition. Classroom casework in the overall facility is wood construction with plastic laminate tops, is inadequately provided, and in poor condition. The typical Classroom contains 4 lineal feet of casework, and Classroom casework provided ranges from 4 to 11 feet. Classrooms are provided adequate chalkboards, markerboards, and tackboards, which are in fair condition. The Student Storage is a shelf and hooks, located in the Corridors, adequately provided, and in poor condition. The building has a kiln that is not available to the Art program. The facility is equipped with mostly wood louvered and non-louvered interior doors, with and without glazing, that are flush mounted and recessed without proper ADA hardware and clearances, and in fair to poor condition. The Gymnasium space has vinyl tile flooring, acoustical tile ceilings, as well as painted block wall finishes, and they are in fair condition. The Gymnasium does not have seating. Student Dining shares the Gymnasium space. OSDM-required fixed equipment for Stage is inadequately provided, and in poor condition. The existing Kitchen is full service a satellite from Willowick Middle School facility, is undersized based on current enrollment, and the existing Kitchen equipment, installed in before 2000, is in fair condition. The Kitchen does not have a walk-in cooler/freezer.

Rating: 3 Needs Replacement

Recommendations:

Provide complete replacement of finishes and casework due to installation of systems outlined in Items A,C, D, E, K, L, M, N, T and U and non conformance with design manual. Funding for replacement of interior doors is provided in Item O, including doors here noted as being in poor condition. Provide a heat removal hood for the Art program kilns. Replace toilet partitions and toilet accessories. Rework walls addressed in item O.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
			_	27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Complete Replacement of Finishes	\$14.60	sq.ft.		Required	Required	Required	Required	\$1,249,088.40	(elementary, per building area,
and Casework (Elementary):									with removal of existing)
Toilet Partitions:	\$1,000.00)per		17 Required	4 Required		10 Required	\$31,000.00	(removing and replacing)
		stall							
Toilet Accessory Replacement	\$0.20	sq.ft.		Required	Required	Required	Required	\$17,110.80	(per building area)
Art Program Kiln:	\$2,500.00	each		1 Required				\$2,500.00	
Other: Rework Non-ADA Toilet	\$10.00	sq.ft.		144 Required			96 Required	\$2,400.00	Rework walls to provide ADA
Room Walls		(Qty)							clearance in toilet rooms
Sum:			\$1,302,099.20	\$434,851.60	\$161,738.40	\$64,528.00	\$640,981.20		





Corridor Classroom casework

K. Interior Lighting

Description:

The typical Classrooms of the facility are equipped with T-12 1'X4' pendant mounted style fluorescent fixtures with single level switching. Some of these Classrooms provide 50 to 60 footcandles while others only provide 35 to 45 footcandles of light which is below the recommended 50 FC. The typical Corridors in the overall facility are equipped with T-12, 1'X4' surface mounted fluorescent fixtures with single level switching. Corridor fixtures are in fair condition, providing an average illumination of 15 to 20 FC; Sometimes complying with the 20 FC recommended by the OSDM and sometimes not. The Multi Purpose / Cafeteria area / Gymnasium is equipped with surface mounted modular fluorescent type lighting in fair condition, providing an average illumination of 40 FC; not complying with the 50 FC recommended by the OSDM. The Library is equipped with T-12, 1'X4' pendant mounted fluorescent type lighting in fair condition, providing an average illumination of 40 to 50 FC; not complying with the 50 FC recommended by the OSDM. The Kitchen space is equipped with T-12 1'X4' surface mounted fluorescent type lighting fixtures with single level switching. Kitchen fixtures are in fair condition, providing an average illumination of 55 to 60 FC, which is less than the 75-80 FC recommended by the OSDM. The Service Areas in the overall facility are equipped with pendant or chain mounted fluorescent type lighting and surface mounted incandescent fixtures in poor condition. The typical Administrative spaces in the overall facility are equipped with 1'X4' surface mounted T-12 wrap-around fluorescent type lighting in fair condition, providing inadequate illumination based on OSDM requirements. The overall lighting systems of the facility are not compliant with Ohio School Design Manual requirements due to age, condition of the lighting fixtures and installation of a fire protection system.

Rating: 3 Needs Replacement

Recommendations: Provide complete replacement of lighting system due to age, condition of lighting fixtures and installation of a fire protection system.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
			_	27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Complete Building Lighting	\$5.00	sq.ft.		Required	Required	Required	Required	\$427,770.00	Includes demo of existing
Replacement		'		-					fixtures
Sum:			\$427,770.00	\$139,835.00	\$53,290.00	\$21,800.00	\$212,845.00		





Typical Classroom Lighting

Hallway Lighting

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L. Security Systems

Description: The overall facility contains a security system including head-end equipment and security buzzer at main entry. The security system is not

adequately provided throughout, and is not fully compliant with Ohio School Design Manual guidelines regarding security lighting through-out the site. The exterior building lighting system is equipped with incandescent wall mounted lights and incandescent spot lights; all in poor condition. Parking and bus pick-up / drop off areas are illuminated with pole mounted par 38 floodlight fixtures in fair condition. The exterior site lighting

system provides inadequate coverage per the OSDM guidelines.

Rating: 3 Needs Replacement

Recommendations: Provide complete replacement of security system to meet Ohio School Design Manual guidelines. Provide complete replacement of exterior site

lighting system to meet Ohio School Design Manual guidelines.

Item	Cost Ur	nit Whole Building	g1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
			27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Security System:	\$1.75sq	.ft.	Required	Required	Required	Required	\$149,719.50	(complete, area of building)
Exterior Site Lighting:	\$1.00sq	.ft.	Required	Required	Required	Required	\$85,554.00	building
Sum:		\$235,273.50	\$76,909.25	\$29,309.50	\$11,990.00	\$117,064.75		





Security Device

Security System Panel

M. Emergency/Egress Lighting

The overall facility is equipped with an emergency egress lighting system consisting of exit lighting fed from the emergency panel and emergency Description:

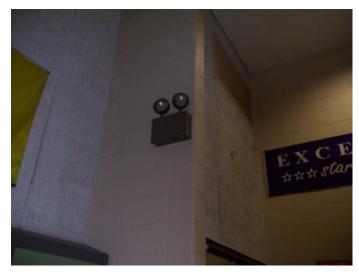
lighting. There are some stand alone emergency floodlight units in several areas of the entire facility. The exterior egress doors have par 38 incandescent type wall-pack or incandescent wall mounted fixtures, but are not provided with emergency lighting heads. Most of the system is in poor condition and in need of repair and / or additional emergency lighting equipment. The emergency egress lighting units that are provided with appropriate battery backup but, no written battery replacement schedule was available. The system is not adequately provided throughout, and does not meet Ohio School Design Manual and Ohio Building Code requirements in all cases.

Rating: 3 Needs Replacement

Recommendations: Provide complete replacement of the emergency / egress lighting system throughout to meet the Ohio School Design Manual guildlines.

Item	Cost	Unit	Whole Building	1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Emergency/Egress Lighting:	\$1.00	sq.ft.		Required	Required	Required	Required	\$85,554.00	(complete, area of building)
Sum:			\$85,554.00	\$27,967.00	\$10,658.00	\$4,360.00	\$42,569.00		





Typical Exit Sign

Emergency Lighting

Back to Assessment Summary

Facility Assessment

N. Fire Alarm

The overall facility is equipped with a zoned Fire Alarm system. Due to the age of this system it cannot handle the requirements of the Ohio School Design Manual. Devices are not located in areas that are required by code and the system installed is not an addressable type and therefore will not meet the Ohio School Design Manual and Ohio Building Code requirements. Description:

Rating: 3 Needs Replacement

Recommend providing a complete new Fire Alarm System to meet the Ohio School Design Manual and the Ohio Building Code. Recommendations:

Item	Cost U	nit Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
		Building	(1956)	(1958)	(1962)	(1966)		
			27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Fire Alarm	\$1.50sc	q.ft.	Required	Required	Required	Required	\$128,331.00	(complete new system, including removal of
System:				-				existing)
Sum:		\$128,331.00	\$41,950.50	\$15,987.00	\$6,540.00	\$63,853.50		





Main Fire Alarm Panel

Typical Manual Pull Station

O. Handicapped Access

Description:

At the site, there is an accessible route provided from the public right-of-way, the accessible parking areas, and from the passenger unloading zone to the main entrance of the school. There is an accessible route connecting most areas of the site. The exterior entrances are mostly ADA accessible. Access from the parking / drop-off area to the building entries is compromised by steps or steep ramps. Adequate handicap parking is not provided. Exterior doors are equipped with ADA hardware. The main entry is not equipped with an ADA power assist door. Playground layout and equipping are mostly compliant. On the interior of the building, space allowances and reach ranges are mostly compliant. Coat racks project into the accessible route through the building. Ground and floor surfaces are compliant. Ramps and stairs are mostly compliant. Elevation changes within the 1966 Addition are facilitated by two ramps and four staircases in fair condition. In the single story 1956 Original Construction and 1958 and 1962 Additions, special provisions for floor level changes are not required. Access to the two Stages is not facilitated by a chair lift or ramp. Interior doors throughout the facility are mostly recessed, are not provided adequate clearances, and are not provided with ADA-compliant hardware. In the 1956 Original Construction and the 1966 Addition, toilet partitions are metal and do not provide appropriate ADA clearances, ADA compliant accessories are not adequately provided and mounted, and mirrors do not meet ADA requirements for mounting height. Multi-handicap accessible group toilets are provided in the 1958 Addition. Most electric water coolers are compliant. ADA signage is not adequately provided on either the interior or the exterior of the building.

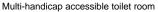
Rating: 2 Needs Repair

Recommendations:

Provide ADA compliant signage. Provide a power assist door opener at the main entry. Provide chair lifts at the Stages. Provide an elevator accessing the second floor of the 1966 Addition. Provide compliant toilet partitions and accessories and remount mirrors to compliant height. Replacement of plumbing fixtures is covered in Item E. Parking issues are corrected in Item P. Rework door openings to provide adequate clearances where required. Replace doors addressed as poor in item J.

ltem	Cost	Unit	Whole Building	1956 Original (1956) 27,967 ft ²	1958 Addition (1958)	1962 Addition	1966 Addition (1966) 42,569 ft ²	Sum	Comments
				27,907 11-	10,658 ft ²	(1962) 4,360 ft ²	42,569 11-		
Signage:	\$0.10	sq.ft.		Required	Required	Required	Required	\$8,555.40	(per building area)
Lifts:	\$15,000.00	unit		1 Required			1 Required	\$30,000.00	(complete)
Elevators:	\$50,000.00	each					2 Required	\$100,000.00	(per stop, \$100,000 minimum)
Toilet Partitions:	\$1,000.00	stall		2 Required			8 Required	\$10,000.00	(ADA - grab bars, accessories included)
ADA Assist Door & Frame:	\$7,500.00	unit		1 Required				\$7,500.00	(openers, electrical, patching, etc)
Replace Doors:	\$1,100.00	leaf		45 Required	11 Required	4 Required	29 Required		(standard 3070 wood door, HM frame-classroom door/light, includes hardware)
Replace Doors:	\$5,000.00	leaf		3 Required			8 Required		(rework narrow opening to provide 3070 wood door, HM frame, door/light, includes hardware)
Replace Doors:	\$5,000.00	leaf		21 Required	10 Required	4 Required	24 Required		(rework opening and corridor wall to accommodate ADA standards when door opening is set back from edge of corridor and cannot accommodate a wheelchair.)
Remount Restroom Mirrors to Handicapped Height:	\$285.00	per restroom		7 Required			10 Required	\$4,845.00	
Sum:			\$608,800.40	\$198,791.70	\$63,165.80	\$24,836.00	\$322,006.90		







Typical recessed classroom door

P. Site Condition

Description:

The building sits on a 9.0 acre site within a 26.7 acre campus shared with Willowick Middle School. The relatively flat site is located in a suburban residential setting with moderate tree and shrub landscaping. Evidence of poor drainage was observed near the building perimeter. No evidence of erosion was observed. Also located on the campus are baseball and softball fields, a running track, a football field, tennis courts and several outbuildings associated with the athletic facilities. The site is bordered by lightly traveled city streets. Multiple entrances onto the site facilitate site circulation. A one way bus loop which is separated from other vehicular traffic is provided in front of the school for student loading and unloading. The bus loop is shared with Willowick Middle School. Staff and visitor parking is facilitated by multiple asphalt parking lots in fair to poor condition, containing 122 parking places, which provides adequate parking for staff members and visitors. Adequate designated parking for the disabled is not provided. The site and parking lot drainage design, consisting of sheet drainage, catch basins, and storm sewers, provides adequate evacuation of storm water, and no problems with parking lot ponding were observed. Concrete curbs in fair to poor condition are appropriately placed. The service drive is not heavy duty concrete. A concrete dumpster pad is not provided. The school is not equipped with a loading dock. Concrete sidewalks are properly sloped, are located to provide a logical flow of pedestrian traffic, and are in fair to poor condition. A well landscaped courtyard provides an opportunity for outdoor instruction, though no related equipment has been provided. The site is bordered on all sides by single family residences. Paved paths and concrete sidewalks connect the site to the adjacent residential neighborhoods. The site is mostly flat and well drained. There is sufficient space on site for an addition to the building.

Rating: 2 Needs Repair

Recommendations:

Provide new wearing course on entry drives, parking lots, paved play areas and paved bicycle parking lot. Replace concrete sidewalks and curbs where required. Costs for shared entry drives and sidewalks are divided between the Willowick Middle School and Royalview Elementary School assessments. Costs for paved play areas and bicycle parking lot are covered in the Royalview Elementary School assessment. Costs associated with athletic facilities are covered in the Willowick Middle School assessment. Designate additional accessible parking spaces convenient to the entries to both buildings. Costs for ADA signage are covered in item O of both building reports.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	Addition	(1966)		
			_	27,967 ft ²	10,658 ft ²	(1962)	42,569 ft ²		
						4,360 ft ²			
Asphalt Paving / New Wearing	\$18.65	sq. yard		7,670				\$143,045.50	(includes minor crack repair in less
Course:				Required					than 5% of paved area)
Concrete Curb:	\$17.87	ln.ft.		310 Required				\$5,539.70	(new)
Concrete Sidewalk:	\$4.69	sq.ft.		1,850				\$8,676.50	(5 inch exterior slab)
		(Qty)		Required					
Base Sitework Allowance for	\$50,000.00	allowance		Required				\$50,000.00	Include this and one of the next two.
Unforeseen Circumstances									(Applies for whole building, so only
									one addition should have this item)
Sitework Allowance for Unforeseen	\$1.50	sq.ft.		Required	Required	Required	Required	\$128,331.00	Include this one or the next. (Each
Circumstances for buildings between							-		addition should have this item)
0 SF and 100,000 SF									
Sum:			\$335,592.70	\$249,212.20	\$15,987.00	\$6,540.00	\$63,853.50		





Bus loop Curb in poor condition

Facility Assessment

Q. Sewage System

Description: The sanitary sewer system is tied in to the city system and is in fair condition. No significant system deficiencies were reported by the school

district or noted during the physical assessment.

Rating: 3 Needs Replacement

Recommendations: Replace existing system due to age of pipe.

Item	Cost	Unit	Whole Building	1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Sewage Main:	\$45.00	ln.ft.		500 Required	500 Required	500 Required	500 Required	\$90,000.00	(include excavation and backfilling)
Sum:			\$90,000.00	\$22,500.00	\$22,500.00	\$22,500.00	\$22,500.00		





Sanitary drainage Piping

Sanitary drainage Piping

Back to Assessment Summary

Facility Assessment

R. Water Supply

Description: The domestic water supply system is tied in to the municipal system. The water meter, is in good condition. The District was not able to provide

water supply flow test data. The existing domestic water service does meet the facility's current needs The facility is not equipped with an

automated fire suppression system, and the existing water supply will not provide adequate support for a future system.

Rating: 3 Needs Replacement

Recommendations: The system does not provide adequate capacity for the future needs of the school.

Item	Cost	Unit	Whole Building	1956 Original (1956)1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Domestic Water Main	\$40.00	ln.ft.		500 Required	500 Required	500 Required	500 Required	\$80,000.00	(new)
Sum:			\$80,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00		





Domestic water in plumbing chase

Domestic water in plumbing chase

S. Exterior Doors

Description:

Typical exterior doors in the 1956 Original Construction are aluminum type construction, installed on aluminum frames, and are in fair to poor condition. Typical exterior doors feature single glazed non-insulated tempered and non- tempered glass vision panels. There are hollow metal doors on hollow metal frames that are in poor condition. There is a wood door in poor condition on a hollow metal frame. Typical exterior doors in the 1966 Addition are hollow metal type construction, installed on hollow metal frames, and are in poor condition. Typical exterior doors feature single glazed non-insulated tempered and non-tempered glass vision panels. There are no exterior doors on the 1958 and 1962 additions. There are no overhead doors in the facility.

Rating: 3 Needs Replacement

Recommendations: Replace all exterior doors to comply with Ohio Building Code, ADA, and Ohio School Design Manual guidelines.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Door Leaf/Frame and	\$2,000.00	per		18 Required			10 Required	\$56,000.00	(includes removal of
Hardware:		leaf		-					existing)
Sum:			\$56,000.00	\$36,000.00	\$0.00	\$0.00	\$20,000.00		





Typical hollow metal entry doors.

Typical hollow metal doors.

T. Hazardous Material

Description: The School District provided the AHERA three year reinspection reports, prepared by CTG Environmental, LLC, and dated 2006, documenting

known and assumed locations of asbestos and other hazardous materials. Vinyl asbestos floor tile and mastic, pipe insulation, fittings, and containing hazardous materials are located in the overall facility in fair to poor condition. These materials were described in the report and open to observation and found to be in friable and non-friable condition with significant to light damage. There are no underground fuel oil storage tankson the site. Due to the construction date, there is a potential for lead based paint. Fluorescent lighting will require special disposal.

Rating: 3 Needs Replacement

Recommendations: Remove all hazardous materials, inclusive of asbestos-containing materials in the overall facility, as noted in the attached Environmental Hazards

Assessment. Provide for the testing of paint that has the potential of being lead-based.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Environmental Hazards Form				EHA Form	EHA Form	EHA Form	EHA Form	(
Pipe Insulation Removal	\$10.00	ln.ft.		150 Required	100 Required	0 Required	0 Required	\$2,500.00	
Pipe Fitting Insulation Removal	\$20.00	each		20 Required	10 Required	0 Required	0 Required	\$600.00)
Resilient Flooring Removal, Including	\$3.00	sq.ft.		20,950 Required	7,990 Required	3,270 Required	31,620 Required	\$191,490.00	See J
Mastic		(Qty)							
Sum:			\$194,590.00	\$64,750.00	\$25,170.00	\$9,810.00	\$94,860.00		





9x9 tile Pipe insulation

Back to Assessment Summary

U. Life Safety

Description:

The overall facility is not equipped with an automated fire suppression system. Exit corridors are situated such that dead-end corridors are not present. The facility features 4 interior stair towers, which are not protected by a two hour fire enclosure. The facility does not have any exterior stairways from intermediate floors. Guardrails are constructed with vertical bars with less than 4" clearance do not meet the 4" ball test, and do not extend past the top and bottom stair risers as required by the Ohio Building Code. Ramps are not provided with adequate handrails. The Kitchen does not include equipment that requires fire suppression. The cooking equipment is not interlocked to shut down in the event of discharge of the fire suppression system. Fire extinguishers are provided in sufficient quantity. Existing fire extinguishers are adequately spaced. The facility is not equipped with an emergency generator. The existing water supply is provided by a tie-in to the municipal system, and is insufficient to meet the future fire suppression needs of the school. Rooms with a capacity greater than 50 occupants are equipped with adequate egress.

Rating: 3 Needs Replacement

Recommendations:

Provide new automated fire suppression system to meet Ohio School Design Manual guidelines. Provide increased water service of a capacity sufficient to support the fire suppression system, funding included in fire suppression funding. Provide new handrails to meet the requirements of the Ohio Building Code. Stair tower enclosures are not recommendeded due to automatic fire suppression system.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
				27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
Sprinkler / Fire Suppression	\$3.25	sq.ft.		27,967 Required	10,658 Required	4,360 Required	42,569 Required	\$278,050.50	(includes increase of service
System:		(Qty)							piping, if required)
Handrails:	\$5,000.00	level					10 Required	\$50,000.00	
Sum:			\$328,050.50	\$90,892.75	\$34,638.50	\$14,170.00	\$188,349.25		





Ramp with non compliant handrail

Stair and non compliant handrail

Facility Assessment

V. Loose Furnishings

Description: The typical Classroom furniture is of mismatched, and in generally fair condition, consisting of student desks & chairs, teacher desks & chairs,

desk height file cabinets, reading tables, computer workstations, bookcases, wastebaskets, and other. The facility's furniture and loose equipment were evaluated in item 6.17 in the CEFPI section of this report, and on a scale of 1 to 10 the overall facility received a rating of 6 due to observed

conditions, and due to the fact that it lacks some of the Design Manual required elements.

Rating: 2 Needs Repair

Recommendations: Provide for replacement of outdated or inadequate furniture.

Item	Cost	Unit \	Whole Building	1956 Original (1956)	1958 Addition (1958)	1962 Addition (1962)	1966 Addition (1966)	Sum	Comments
			-	27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
CEFPI Rating 6	\$3.00	sq.ft.		Required	Required	Required	Required	\$256,662.00	
Sum:		9	256,662.00	\$83,901.00	\$31,974.00	\$13,080.00	\$127,707.00		





Classroom furniture

Classroom furniture

Back to Assessment Summary

W. Technology

Description: The typical Classroom is equipped with one or two data ports per outlet and no voice ports used with a digitally based phone system to meet Ohio

School Design Manual requirements. The typical Classroom is not equipped with the required four technology data ports for teacher and student use and a 2-way PA system that can be initiated by either party to meet Ohio School Design Manual requirements. The facility is equipped with a centralized clock system. The Sound System provides devices for most required spaces but due to the age the infrastructure is inadequately provided for each space of this facility. The facility does contain a media distribution center, but does not provide a Computer Lab for use by most

students.

Rating: 3 Needs Replacement

Recommendations: Provide complete replacement of technology systems to meet Ohio School Design Manual requirements for this facility.

Item	Cost	Unit	Whole	1956 Original	1958 Addition	1962 Addition	1966 Addition	Sum	Comments
			Building	(1956)	(1958)	(1962)	(1966)		
			_	27,967 ft ²	10,658 ft ²	4,360 ft ²	42,569 ft ²		
ES portion of building with total SF >	\$7.69	sq.ft.		27,967 Required	10,658 Required	4,360 Required	42,569 Required	\$657,910.26	i
69,360		(Qty)					·		
Sum:			\$657,910.26	\$215,066.23	\$81,960.02	\$33,528.40	\$327,355.61		





Technology Cabinet

Typical Technology Outlet

X. Construction Contingency / Non-Construction Cost

Renovat	ion Costs (A-W)	\$11,837,449.17
7.00%	Construction Contingency	\$828,621.44
Subtotal		\$12,666,070.61
16.29%	Non-Construction Costs	\$2,063,302.90
Total Pro	oject	\$14,729,373.51

Construction Contingency	\$828,621.44
Non-Construction Costs	\$2,063,302.90
Total for X.	\$2,891,924.34

Non-Construction Costs Breakdown		
Land Survey	0.03%	\$3,799.82
Soil Borings / Phase I Envir. Report	0.10%	\$12,666.07
Agency Approval Fees (Bldg. Code)	0.15%	\$18,999.11
Construction Testing	0.25%	\$31,665.18
Printing - Bid Documents	0.27%	\$34,198.39
Advertising for Bids	0.03%	\$3,799.82
Builder's Risk Insurance	0.11%	\$13,932.68
Design Professional's Compensation	7.50%	\$949,955.30
CM Compensation	6.00%	\$759,964.24
Commissioning	0.42%	\$53,197.50
Maintenance Plan Advisor	0.11%	\$13,932.68
Non-Construction Contingency (includes partnering and mediation services)	1.32%	\$167,192.13
Total Non-Construction Costs	16.29%	\$2,063,302.90

Back to Assessment Summary

Name of Appraiser	Karen L Walker				Date of Appraisal	20	10-03-16		
Building Name	Royalview Eleme	Royalview Elementary School							
Street Address	31500 Royalview Dr								
City/Town, State, Zip Code	Willowick, OH 44094								
Telephone Number(s)	440/944-3130								
School District	Willoughby-Eastl	Willoughby-Eastlake City SD							
Setting:	Suburban								
Site-Acreage	9.00			Build	ing Square Footage		85,554		
Grades Housed	K-5			Student Capacity			1,175		
Number of Teaching Stations	47			Number of Floors			2		
Student Enrollment	829								
Dates of Construction	1956,1958,	1962	,1966						
Energy Sources:	☐ Fuel Oil		Gas		Electric		Solar		
Air Conditioning:	Roof Top	·	Windows Uni	its	☐ Central		Room Units		
Heating:	Central		Roof Top		☐ Individual Unit		Forced Air		
	Hot Water		Steam						
Type of Construction	Exterior Surfa	acing	İ		Floor Construction	n			
☐ Load bearing masonry	Brick				☐ Wood Joists				
Steel frame	☐ Stucco				Steel Joists				
☐ Concrete frame	☐ Metal				Slab on grade				
☐ Wood	□ Wood				☐ Structural slab				
☐ Steel Joists	☐ Stone								

1.0 The School Site

School Facility Appraisal

			Points Allocated	Points
1.1		Site is large enough to meet educational needs as defined by state and local requirements	25	15
	The 9 acre s	ie is below the 18.29 required by the design manual.		
1.2		Site is easily accessible and conveniently located for the present and future population	20	18
	The site is e najor circula	asily accessible and conveniently located for the present and future population. The site is located within the comm tion routes.	unity it serves and o	convenient to
1.3		Location is removed from undesirable business, industry, traffic, and natural hazards	10	10
	The location from noise a	is removed from undesireable business, industry, traffic and natural hazards. The site is buffered by residential lots nd hazard.	on all sides and is	well insulated
1.4		Site is well landscaped and developed to meet educational needs	10	7
		noderately landscaped. Tall trees along the site perimeter provide pleasant views in all directions. Landscaped cour is to outdoor learning.	tyards provide pleas	sant views and
1.5	ES	Well equipped playgrounds are separated from streets and parking areas	10	3
	MS	Well equipped athletic and intermural areas are separated from streets and parking		
	HS	Well equipped athletic areas are adequate with sufficient solid-surface parking		
	Well equippe	ed playgrounds are separated from streets and busy traffic. A parking lot abuts the play area.		
1.6		Topography is varied enough to provide desirable appearance and without steep inclines	5	2
	Topography	is mostly flat, with a slight slope up to the athletic fields.		
1.7		Site has stable, well drained soil free of erosion	5	3
	The soil is w	ell drained and mostly free from erosion. Some ponding was observed near the building perimeter due to faulty roo	f drainage system.	
1.8		Site is suitable for special instructional needs , e.g., outdoor learning	5	3
	A landscape	d courtyard provides opportunity for outdoor instruction.		
1.9		Pedestrian services include adequate sidewalk with designated crosswalks, curb cuts, and correct slopes	5	5
	Adequate pr	operly sloped sidewalks, crosswalks and curb cuts are provided. Paved walks connect the site to surrounding neigh	nborhoods.	
1.10	ES/MS	Sufficient on-site, solid surface parking for faculty and staff is provided	5	5
	HS	Sufficient on-site, solid surface parking is provided for faculty, students, staff and community		
	Sufficient on	-site, solid surface parking is provided. The site exceeds OSDM parking requirements.		
		TOTAL - The School Site	100	71

2.0 Structural and Mechanical Features

School Facility Appraisal

Structu	ral	Points Allocated	Points
2.1	Structure meets all barrier-free requirements both externally and internally The building is not ADA accessible.	15	5
2.2	Roofs appear sound, have positive drainage, and are weather tight The roof is original and showing signs of failure.	15	0
2.3	Foundations are strong and stable with no observable cracks Foundation damage was noted at the entry canopy.	10	5
2.4	Exterior and interior walls have sufficient expansion joints and are free of deterioration Joints are showing deterioration and are insufficient in quantity.	10	5
2.5	Entrances and exits are located so as to permit efficient student traffic flow Traffic flow is adequate through the facility.	10	9
2.6	Building "envelope" generally provides for energy conservation (see criteria) The building envelope does not meet current ASHRAE standards.	10	2
2.7	Structure is free of friable asbestos and toxic materials The building is reported to contain asbestos and other hazardous materials.	10	2
2.8	Interior walls permit sufficient flexibility for a variety of class sizes Most Classrooms are within design manual tolerances and permit flexibility.	10	7
Mechan	ical/Electrical	Points Allocated	Points
2.9	Adequate light sources are well maintained, and properly placed and are not subject to overheating Most areas are maintianed and properly placed while other area lighting needs repair or replaced due to being incandescent subject to overheating.	15 t type. No lighting was no	6 ticed as being
2.10	Internal water supply is adequate with sufficient pressure to meet health and safety requirements The system does not provide adequate capacity for the future needs of the school. Provide a reduced pressure backflow pre	15 eventer on the incoming s	15 supple, as well
2.11	as future automated fire suppression system. Funding provided in Item U. Each teaching/learning area has adequate convenient wall outlets, phone and computer cabling for technology applications	15	6
	Some up-dating has occurred in Technology for the teaching / learning areas. Still more up-dating is needed regarding outle	ets, phones and computer	cabling.

2.12	Electrical controls are safely protected with disconnect switches easily accessible	10	4
	The electrical controls noticed are safely protected with disconnect switches or over current protection devices and was easily acceedingment it does not meet the requirements of the OSDM.	essible but, due	to the age of the
2.13	Drinking fountains are adequate in number and placement, and are properly maintained including provisions for the disabled	10	10
	Electric water coolers do not meet ADA requirements.		
2.14	Number and size of restrooms meet requirements	10	8
	The quantity of fixtures is adequate for the population served.		
2.15	Drainage systems are properly maintained and meet requirements	10	10
	Replace sanitary waste piping in the overall facility due to the age of drainage piping.		
2.16	Fire alarms, smoke detectors, and sprinkler systems are properly maintained and meet requirements	10	2
	The electrical controls noticed are safely protected with disconnect switches or over current protection devices and was easily acceeding equipment it does not meet the requirements of the OSDM.	essible but, due	to the age of the
2.17	Intercommunication system consists of a central unit that allows dependable two-way communication between the office and instructional areas	10	4
	Intercommunication system consists of a central unit via telephones that allow two-way communication between the Office and centreplacement per the OSDM requirements.	rtain areas but, a	also needs
2.18	Exterior water supply is sufficient and available for normal usage	5	5
	The facility is not equipped with an automated fire suppression system, and the existing water supply will not provide adequate suppression.	oport for a future	e system.
	TOTAL - Structural and Mechanical Features	200	105

3.0 Plant Maintainability

School Facility Appraisal

		Points Allocated	Points
3.1	Windows, doors, and walls are of material and finish requiring minimum maintenance	15	10
	Exterior materials, due to age, are beginning to require additional care.		
3.2	Floor surfaces throughout the building require minimum care	15	13
	Flooring requires little maintenance.		
3.3	Ceilings and walls throughout the building, including service areas, are easily cleaned and resistant to stain	10	3
	Walls and ceilings are stained from roof failures.		
3.4	Built-in equipment is designed and constructed for ease of maintenance	10	5
	Built-in equipment is marginal and not well maintained.		
3.5	Finishes and hardware, with compatible keying system, are of durable quality	10	8
	Door hardware is compatible with the district system, but not ADA compliant.		
3.6	Restroom fixtures are wall mounted and of quality finish	10	7
	Fixtures are not water efficient, but are well maintained.		
3.7	Adequate custodial storage space with water and drain is accessible throughout the building	10	9
	Custodial storage is adequately provided.		
3.8	Adequate electrical outlets and power, to permit routine cleaning, are available in every area	10	6
	Electrical outlets and power for routine cleaning is not available in most areas due to that fact that very few outlets are provide none in other areas such as small toilet rooms or storage areas.	d in such areas as ci	assrooms and
3.9	Outdoor light fixtures, electrical outlets, equipment, and other fixtures are accessible for repair and replacement	10	4
	Outdoor light fixtures are maintained and accessible for repair and / or replacement, but exterior electrical outlets are non-exis Ohio School Design Manual.	tent in many cases a	s required by the

Back to Assessment Summary

TOTAL - Plant Maintainability

100

65

4.0 Building Safety and Security

School Facility Appraisal

Site Sa	fety	Points Allocated	Points
4.1	Student loading areas are segregated from other vehicular traffic and pedestrian walkways Student loading areas are segregated from other vehicular traffic and pedestrian walkways. A bus loop is provided.	15	12
4.2	Walkways, both on and offsite, are available for safety of pedestrians Ample walkways, both on and offsite, are available for safety of pedestrians.	10	10
4.3	Access streets have sufficient signals and signs to permit safe entrance to and exit from school area Access streets have sufficient signals and signs to permit safe entrance to and exit from school area.	5	5
4.4	Vehicular entrances and exits permit safe traffic flow Vehicular entrances and exits permit safe one-way traffic flow. Wayfinding is somewhat confusing at the vehicular entry.	5	2
4.5	ES Playground equipment is free from hazard MS Location and types of intramural equipment are free from hazard	5	5
	HS Athletic field equipment is properly located and is free from hazard Playrground equipment is free from hazard.		
Buildin	g Safety	Points Allocated	Points
4.6	The heating unit(s) is located away from student occupied areas The heating units are away from student activity.	20	18
4.7	Multi-story buildings have at least two stairways for student egress Four stairways are provided for student egress.	15	15
4.8	Exterior doors open outward and are equipped with panic hardware Exterior doors open outward and are equipped with panic hardware, but some are difficult to operate.	10	8
4.9	Emergency lighting is provided throughout the entire building with exit signs on separate electrical circuits Emergency lighting and exit signs are provided throughout the entire building. Exits signs have battery backup but are not	10 on a separate electrica	4 I circuit. Some
4.10	emergency units are per the Ohio Building Code or the NEC. Classroom doors are recessed and open outward Classroom doors are recessed and open outward, but lack proper ADA clearances.	10	5

4.11

Building security systems are provided to assure uninterrupted operation of the educational program

6

10

	Building security systems are provided to assure uninterrupted operation of the educational program. The system does not meet all requirements of the OSDM.		of the OSDM.
4.12	Flooring (including ramps and stairways) is maintained in a non-slip condition	5	5
	Flooring is maintained in a non-slip condition.		
4.13	Stair risers (interior and exterior) do not exceed 6 1/2 inches and range in number from 3 - 16	5	5
	Stair risers are code compliant.		
4.14	Glass is properly located and protected with wire or safety material to prevent accidental student injury	5	1
	Most glass provided is not safety glass.		
4.15	Fixed Projections in the traffic areas do not extend more than eight inches from the corridor wall	5	0
	Fixed projections extend more than eight inches from the corridor wall.		
4.16	Traffic areas terminate at an exit or a stairway leading to an egress	5	5
	Traffic areas terminate at an exit or a stairway leading to an exit.		
Emerge	ncy Safety	Points Allocated	Points
4.47		45	40
4.17	Adequate fire safety equipment is properly located Adequate fire safety equipment is adequately located.	15	13
4.40		45	45
4.18	There are at least two independent exits from any point in the building There are at least two independent exits from any point in the building.	15	15
4.40		45	40
4.19	Fire-resistant materials are used throughout the structure Most materials within the building are fire resistant.	15	13
4.20	Automatic and manual emergency alarm system with a distinctive sound and flashing light is provided	15	6

Automatic and manual emergency alarm system with a distinctive sound is provided. Alarms are also equipped with strobe lights. The Fire Alarm System is not per

Back to Assessment Summary

 $the\ OSDM\ requirements.$

TOTAL - Building Safety and Security

200

153

5.0 Educational Adequacy

School Facility Appraisal

Academic Learning Space		Points Allocated	Points
5.1	Size of academic learning areas meets desirable standards Size of academic learning are mostly within design manual tolerances. Classrooms in the 1966 Addition are undersized.	25	18
5.2	Classroom space permits arrangements for small group activity Most classrooms permits arrangements for small group activity.	15	10
5.3	Location of academic learning areas is near related educational activities and away from disruptive noise Location of academic learning areas is near related educational activities and away from disruptive noise.	10	9
5.4	Personal space in the classroom away from group instruction allows privacy time for individual students Most classrooms have space for private consultation.	10	8
5.5	Storage for student materials is adequate Storage for student materials is a shelf and hook.	10	5
5.6	Storage for teacher materials is adequate Storage for teacher materials in inadequate.	10	5
Specia	Learning Space	Points Allocated	Points
5.7	Size of special learning area(s) meets standards Special learning areas are adequately sized.	15	11
5.8	Design of specialized learning area(s) is compatible with instructional need Specialized learning areas are adapted standard classrooms.	10	6
5.9	Library/Resource/Media Center provides appropriate and attractive space Library provides appropriate and attractive space. The Library faces the courtyard and is daylit and pleasant.	10	10
5.10	Gymnasium (or covered P.E. area) adequately serves physical education instruction	5	2
	Gymnasium is undersized for the number of students.		

5.12	Music Program is provided adequate sound treated space	5	3
	The music room is not sound treated.		
5.13	Space for art is appropriate for special instruction, supplies, and equipment	5	1
	No dedicated space is provided for art instruction.		
School	Facility Appraisal	Points Allocated	Points
5.14	Space for technology education permits use of state-of-the-art equipment	5	5
	Space for technology education permits use of state-of-the-art equipement.		
5.15	Space for small groups and remedial instruction is provided adjacent to classrooms	5	4
	Conference rooms are available for small groups and remedial instruction.		
5.16	Storage for student and teacher material is adequate	5	2
	Storage for student and teacher material is inadequate.		
Suppor	t Space	Points Allocated	Points
5.17	Teacher's lounge and work areas reflect teachers as professionals	10	10
	Multiple teacher lounges and work areas, as well as a teachers' dining room, reflect teachers as professionals.		
5.18	Cafeteria/Kitchen is attractive with sufficient space for seating/dining, delivery, storage, and food preparation	on 10	5
	The kitchen is undersized. Student Dining space also serves as the Gymnasium.		
5.19	Administrative offices provided are consistent in appearance and function with the maturity of the students served	5	4
	Administrative offices provided are consistent in appearance and function with the maturity of the students served.		
5.20	Counselor's office insures privacy and sufficient storage	5	3
	Counselor's office insures privacy and sufficient storage.		
5.21	Clinic is near administrative offices and is equipped to meet requirements	5	4
	Clinic is neat administrative offices and is equipped to meet requirements. Clinic toilet room is not ADA compliant. A seco restrooms.	nd clinic is located near the n	nulti-handicap
5.22	Suitable reception space is available for students, teachers, and visitors	5	4
	Suitable reception space is available for students, teachers and visitors.		
5.23	Administrative personnel are provided sufficient work space and privacy	5	4
	Administrative personnel are provided sufficient work space and privacy.		
	TOTAL - Educational Adequacy	200	140

6.0 Environment for Education

School Facility Appraisal

Exterio	or Environment	Points Allocated	Points
6.1	Overall design is aesthetically pleasing to age of students The building reflects a 1960s design asethetic.	15	12
6.2	Site and building are well landscaped Site and building are moderately landscaped. A well landscaped courtyard provides pleasant views and opportunities for outdo	10 or education.	9
6.3	Exterior noise and poor environment do not disrupt learning Exterior noise and poor environment do not disrupt learning. The site is well insulated from traffic noise.	10	9
6.4	Entrances and walkways are sheltered from sun and inclement weather Entrances are sheltered by canopies in poor condition. Walkways are not sheltered.	10	5
6.5	Building materials provide attractive color and texture Building materials are attractive in color and texture.	5	4
Interio	r Environment	Points Allocated	Points
6.6	Color schemes, building materials, and decor provide an impetus to learning The color pallette is dated. Dark finishes in corridors create an ominous atmosphere.	20	12
6.7	Year around comfortable temperature and humidity are provided throughout the building Year around comfortable temperature and humidity are not provided throughout the building. Humidity control and air condition	15	8
	building.	iing are not present ii	r macir or the
6.8	Ventilating system provides adequate quiet circulation of clean air and meets 15cfm VBC requirement Ventilation system does not meet requirements.	15	5
6.8	Ventilating system provides adequate quiet circulation of clean air and meets 15cfm VBC requirement	15	
	Ventilating system provides adequate quiet circulation of clean air and meets 15cfm VBC requirement Ventilation system does not meet requirements. Lighting system provides proper intensity, diffusion, and distribution of illumination	15	5
6.9	Ventilating system provides adequate quiet circulation of clean air and meets 15cfm VBC requirement Ventilation system does not meet requirements. Lighting system provides proper intensity, diffusion, and distribution of illumination Lighting system does not provide proper intensity, diffusion and distribution of illumination. The corridors are not adequately illumination fountains and restroom facilities are conveniently located	15 15 uminated.	7

Traffic flow is aided by appropriate foyers and corridors.

	TOTAL - Environment for Education	200	139
	The furniture is mismatched, but in fair condition and lacking a few design manual elements.		
6.17	Furniture and equipment provide a pleasing atmosphere	10	6
	Window design contributes to a pleasant environment. All classrooms and some corridors and other spaces are daylit.		
6.16	Window design contributes to a pleasant environment	10	9
	Acoustical treatment is inadequate.		
6.15	Acoustical treatment of ceilings, walls, and floors provides effective sound control	10	5
	Large group areas are designed for effective management of students.		
6.14	Large group areas are designed for effective management of students	10	9
	Areas for students to interact are suitable to the age group.		
6.13	Areas for students to interact are suitable to the age group	10	9

LEED Observation Notes

School District:	Willoughby-Eastlake City SD
County:	Lake
School District IRN:	45104
Building:	Royalview Elementary School
Building IRN:	32904
Sustainable Sites	
take however to prevent the impact on undeveloped lands or to improve to prevent an increase in air pollution. Developing buildings in urban and Controlling stormwater runoff and erosion can prevent the worsening oit is important to decrease heat island effects and reduce the light pollution. Construction activity pollution prevention can be successfully managed agricultural farmland, within a flood plain, habitat for an endangered specommunity having a density of more than 60,000 square feet per acre. The site is not located within 1/2 mile of 10 is not a brownfield. The site is not located within 1/4 mile walking of a behave sufficient bicycle storage but lacks changing facilities. The site do	(source: LEED Reference Guide, 2001:9) I on this site. The building is known to contain hazardous materials. The site is not known to be prime ecies, within or near a wetland, or near a previously undeveloped body of water. The site is not within a The site is not located on a previously developed site within 1/2 mile of a residential area with density of D basic services. The site does not have pedestrian access between the school and basic services. The site ous stop or 1/2 mile walking of a rail station. School busses do have a dedicated lane on site. The site does es not have dedicated parking for fuel efficient or low emitting vehicles. The site meets exceeds current
detention is not mitigated through storm sewers and catch basins. The The roof material does not meet the high albedo reflectance requiremen	ore 50% to a natural state. The site has more than 20% vegetative spaces. Storm water management and hard surfaces of the site do not meet the high albedo reflectance requirements to mitigate heat island effect. It to mitigate heat island effect. Light pollution on the site is created from parking fixtures. The site has pen space, parking capacity, and heat island non-roof. The property is used by the community during or
characters remaining in Sustainable Sites.	
Water Efficiency	
aquifers The excessive usage of water results in the current water deficusage by at least 30%. Low-flow fixtures, sensors or using non potable only do they result in environmental savings, but also bring about finance. The building plumbing fixtures are not water conserving models. The sit caseline water consumption report is required for water efficiency LEED.	n surface sources, 65% of which is discharged later after use. Water is also withdrawn from underground cit, estimated at 3,700 billion gallons. Water efficiency measures in commercial buildings can reduce water water for landscape irrigation, toilet flushing and building systems are just some of available strategies. Not cial benefits, related to lower water use fees, lower sewage volumes to treat and energy use reductions. (source: LEED Reference Guide, 2001:65) te does not irrigate. Recommendations in items E, Q and R enhance water use reduction targets. A D credits.
characters remaining in Water Efficiency.	
releases CO2 into the Atmosphere and contributes to global warming. I to smog and the latter to acid rain. Other types of energy production are power creates nuclear wastes, while hydroelectric generating plants dis environmentally and economically beneficial. Not only will they reduce t	and for approximately 60% of electricity. 75% of energy is derived from the burning of fossil fuels, which Moreover, coal fired electric utilities release nitrogen oxides and sulfur dioxide, where the former contribute e not less harmful. Burning of natural gas produces nitrogen oxides and greenhouse gases as well, nuclear srupt natural water flows. Luckily there are several practices that can reduce energy consumption and are the air pollution and mitigate global warming thanks to being less dependent on power plants, but also they e the most of those practices, it's important to adopt a holistic approach to the building's energy load and
HCFCs. The building does not comply with current ASHRAE envelop st	(source: LEED Reference Guide, 2001:93) and for a baseline for any energy optimization measures. The system does contain equipment with CFCs or tandards. The system does not comply with current energy consumption requirements. Renewable energy not area for wind turbines. The building does have sufficient roof area for solar panels. The building does not not purchase green power.
characters remaining in Energy & Atmosphere.	
Material & Resources	
The steps related to process building materials, such as extraction, pro resources. Construction and demolition wastes account for 40% of the wastes volumes and prevents then from ending up at landfills. It also re materials one should take into account different material sources. Salva	•
,	(source: LEED Reference Guide, 2001:167) uilding shell is viable for renovation. The interior partitions are mostly viable for renovation. The classrooms redits of recycled content, regional products, rapidly renewable materials, or certified wood are included.
characters remaining in Material & Resources.	
Indoor Environmental Quality	

As we spend a big majority of our time indoors, the emphasis should be put on optimal indoor environmental quality strategies while (re)designing a building. Otherwise, a poor IEQ will have adverse effects on occupants' health, productivity and quality of life. IEQ strategies such as ventilation effectiveness and control of contaminants or a building flush-out prior to occupancy can reduce potential liability, increase the market value of the building but can also result in a significantly higher productivity (16%). Other strategies involve automatic sensors and controls, introducing fresh air to the building or providing lots of daylighting views.
(source: LEED Reference Guide, 2001:215)
The building does not meet the ASHRAE standards for indoor air quality. Smoking is not permitted on site. The building does not have adequate acoustical separation of spaces. Outdoor air monitoring is not provided. Fresh air intake is through roof and side wall ventilators. The building ventilation is inadequate. Refer to items A and C for additional information. Individual controls for thermal comfort and lighting levels are provided. The building does not meet ASHRAE standards for thermal comfort levels. The building does not have a thermal comfort verification plan in place. The building does not have sufficient daylight to meet the 35 foot candle LEED requirement for some classrooms and other occupied spaces. The building does not have a system in place for mold prevention. Characters remaining in Indoor Environmental Quality.
Innovation & Design Process
This category is almed at recognizing projects that implemented innovative building features and sustainable building knowledge, and whose strategy or measure results exceeded those which are required by the LEED Rating System. Expertise in sustainable design is the key element of the innovative design and construction process.
(source: LEED Reference Guide, 2001:271)
The school is within the region CGB271 Urban-Rural which capitalizes on credits pertaining to site storm water management quality and quantity, wastewater innovation,

renewable energy, construction waste management, and rapidly renewable materials.

characters remaining in Innovation & Design Process.

<Untitled>

Justification for Allocation of Points

Building Name and Level: Royalview Elementary School

K-5

Building features that clearly exceed criteria:

- 1. The building has a generously landscaped courtyard.
- 2. There is an abundance of daylight in the classrooms.
- 3. Cross categorical handicap accessible toilet rooms are provided to accomodate the needs of Special Education students.
- 4. The site is located in a quiet and pleasant residential area and is well insulated from noise and traffic.
- 5. Most corridors are generous in width, have views into the courtyards and are daylit.
- 6. Parking provided exceeds design manual requirements.

Building features that are non-existent or very inadequate:

- 1. The roof has substantial problems with leaking and is overdue for replacement.
- 2. The building contains asbestos and other hazardous materials.
- 3. The gymnasium is undersized.
- 4. The building is not ADA compliant. The second floor is not wheelchair accessible, and most doors are not provided with compliant clearances or hardware.
- 5. The building is not air conditioned.
- 6. The windows are drafty and are neither weathertight nor insulated.

Environmental Hazards Assessment Cost Estimates

Owner:	Willoughby-Eastlake City SD
Facility:	Royalview Elementary School
Date of Initial Assessment:	Mar 16, 2010
Date of Assessment Update:	Jun 23, 2010
Cost Set:	2010

District IRN:	45104
Building IRN:	32904
Firm:	The Collaborative, Inc.

Scope remains unchanged after cost updates.

Duilding Addition	Addition Area (sf)	Total of Environmental Hazards Assessment Cost Estimat				
Building Addition	Addition Area (SI)	Renovation	Demolition			
1956 1956 Original	27,967	\$64,750.00	\$1,900.00			
1958 1958 Addition	10,658	\$25,170.00	\$1,200.00			
1962 1962 Addition	4,360	\$9,810.00	\$0.00			
1966 1966 Addition	42,569	\$94,860.00	\$0.00			
Total	85,554	\$194,590.00	\$3,100.00			
Total with Regional Cost Factor (104.16%)	(\$202,684.94	\$3,228.96			
Regional Total with Soft Costs & Contingency	(\$252,201.48	\$4,017.80			

Building Summary - Royalview Elementary School (32904)

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Previous Page

Environmental Hazards - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904) - 1956 Original

 Owner:
 Willoughby-Eastlake City SD
 Bldg. IRN:
 32904

 Facility:
 Royalview Elementary School
 BuildingAdd:
 1956 Original

Date: Consultant Name:

A. Asbestos Containing Material (ACM)			AFM=Asbes	tos Free Materia
ACM Found	Status	Quantity	Unit Cost E	stimated Cost
Boiler/Furnace Insulation Removal	Not Present	0	\$10.00	\$0.00
Breeching Insulation Removal	Not Present	0	\$10.00	\$0.00
Tank Insulation Removal	Not Present	0	\$8.00	\$0.00
Duct Insulation Removal	Not Present	0	\$8.00	\$0.00
Pipe Insulation Removal	Reported Asbestos-Containing Material	150	\$10.00	\$1,500.00
Pipe Fitting Insulation Removal	Reported Asbestos-Containing Material	20	\$20.00	\$400.00
7. Pipe Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$12.00	\$0.00
Pipe Fitting Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$30.00	\$0.00
Pipe Insulation Removal (Hidden in Walls/Ceilings)	Not Present	0	\$15.00	\$0.00
10. Dismantling of Boiler/Furnace/Incinerator	Not Present	0	\$2,000.00	\$0.00
11. Flexible Duct Connection Removal	Not Present	0	\$100.00	\$0.00
12. Acoustical Plaster Removal	Not Present	0	\$7.00	\$0.00
13. Fireproofing Removal	Not Present	0	\$15.00	\$0.00
14. Hard Plaster Removal	Not Present	0	\$7.00	\$0.00
15. Gypsum Board Removal	Not Present	0	\$6.00	\$0.00
16. Acoustical Panel/Tile Ceiling Removal	Not Present	0	\$3.00	\$0.00
17. Laboratory Table/Counter Top Removal	Not Present	0	\$100.00	\$0.00
18. Cement Board Removal	Not Present	0	\$5.00	\$0.00
19. Electric Cord Insulation Removal	Not Present	0	\$1.00	\$0.00
20. Light (Reflector) Fixture Removal	Not Present	0	\$50.00	\$0.00
21. Sheet Flooring with Friable Backer Removal	Not Present	0	\$4.00	\$0.00
22. Fire Door Removal	Not Present	0	\$100.00	\$0.00
23. Door and Window Panel Removal	Not Present	0	\$100.00	\$0.00
24. Decontamination of Crawlspace/Chase/Tunnel	Not Present	0	\$3.00	\$0.00
25. Soil Removal	Not Present	0	\$150.00	\$0.00
26. Non-ACM Ceiling/Wall Removal (for access)	Not Present	0	\$2.00	\$0.00
27. Window Component (Compound, Tape, or Caulk) - Reno & Demo	Not Present	0	\$300.00	\$0.00
28. Window Component (Compound, Tape, or Caulk) - Reno Only	Not Present	0	\$300.00	\$0.00
29. Resilient Flooring Removal, Including Mastic	Reported Asbestos-Containing Material	20950	\$3.00	\$62,850.00
30. Carpet Mastic Removal	Not Present	0	\$2.00	\$0.00
31. Carpet Removal (over RFC)	Not Present	0	\$1.00	\$0.00
32. Acoustical Tile Mastic Removal	Not Present	0	\$3.00	\$0.00
33. Sink Undercoating Removal	Not Present	0	\$100.00	\$0.00
34. Roofing Removal	Not Present	0	\$2.00	\$0.00
35. (Sum of Lines 1-34)	Total Asb. Hazard Abatement Cost for Re	enovation Wor	'k	\$64,750.00
36. (Sum of Lines 1-27)	Total Asb. Hazard Abatement Cost for De	molition Wor	k	\$1,900.00
B. Removal Of Underground Storage Tanks				None Reported
B. Romovai or ondorground otorage rains				None Reported

						·
Tank No.	Location	Age	Prod	luct Stored	Size	Est.Rem.Cost
1. (Sum of Lines 1-0)	Total Cost For Removal Of Underground Storage Tanks					
C. Lead-Based Paint (LBP) - Renovatio	n Only				☐ Addition	on Constructed after 1980
1. Estimated Cost For Abatement Contract	ctor to Perform Lead Mock-l	Jps		\$0.00		
Special Engineering Fees for LBP Moc				\$0.00		
3. (Sum of Lines 1-2)			То	tal Cost for Lead-B	Based Paint Mock-Ups	\$0.00

D. Fluorescent Lamps & Ballasts Recycling/Incineration								
Area Of Building Addition	Square Feet w/Fluorescent Lamps & Ballasts	Unit Cost	Total Cost					
1. 27967	0	\$0.10	\$0.00					

E	E. Other Environmental Hazards/R	None Reported					
	Description						
1	. (Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Renovation	\$0.00				
2	2. (Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Demolition	\$0.00				

F.	F. Environmental Hazards Assessment Cost Estimate Summaries							
1.	A35, B1, C3, D1, and E1	Total Cost for Env. Hazards Work - Renovation	\$64,750.00					
2.	A36, B1, D1, and E2	Total Cost for Env. Hazards Work - Demolition	\$1,900.00					

 $^{{}^{\}star}\, {\sf INSPECTION}\, {\sf ASSUMPTIONS}\, {\sf for}\, {\sf Reported/Assumed}\, {\sf Asbestos\text{-}Free}\, {\sf Materials}\, ({\sf Rep/Asm}\, {\sf AFM}):$

- a. Unless reported otherwise by the District, materials installed after 1980 are assumed to be asbestos-free.
- b. Unless reported otherwise by the District, small quantities (less than 1,000 square feet) of the following materials are assumed to be asbestos free: hard plaster, acoustical plaster and gypsum board systems; acoustical panels and tiles; fireproofing; 12"x12" floor tile and mastic.
- c. Unless reported otherwise by the District, all roofing materials are assumed to be asbestos-free.

Environmental Hazards - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904) - 1958 Addition

Owner: Willoughby-Eastlake City SD Bldg. IRN: 32904

BuildingAdd: Facility: Royalview Elementary School 1958 Addition

Date: Consultant Name:

. Asbestos Containing Material (ACM)	T.	-		stos Free Materia
ACM Found	Status	Quantity		Estimated Cost
Boiler/Furnace Insulation Removal	Not Present	0	\$10.00	
Breeching Insulation Removal	Not Present	0	\$10.00	
Tank Insulation Removal	Not Present	0	\$8.00	\$0.0
Duct Insulation Removal	Not Present	0	\$8.00	
Pipe Insulation Removal	Assumed Asbestos-Containing Material	100	\$10.00	\$1,000.0
Pipe Fitting Insulation Removal	Assumed Asbestos-Containing Material	10	\$20.00	\$200.0
Pipe Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$12.00	\$0.0
Pipe Fitting Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$30.00	\$0.0
Pipe Insulation Removal (Hidden in Walls/Ceilings)	Not Present	0	\$15.00	\$0.0
Dismantling of Boiler/Furnace/Incinerator	Not Present	0	\$2,000.00	\$0.0
Flexible Duct Connection Removal	Not Present	0	\$100.00	\$0.0
2. Acoustical Plaster Removal	Not Present	0	\$7.00	\$0.0
3. Fireproofing Removal	Not Present	0	\$15.00	\$0.0
4. Hard Plaster Removal	Not Present	0	\$7.00	\$0.0
5. Gypsum Board Removal	Not Present	0	\$6.00	\$0.0
6. Acoustical Panel/Tile Ceiling Removal	Not Present	0	\$3.00	\$0.0
7. Laboratory Table/Counter Top Removal	Not Present	0	\$100.00	\$0.0
8. Cement Board Removal	Not Present	0	\$5.00	\$0.0
9. Electric Cord Insulation Removal	Not Present	0	\$1.00	\$0.0
0. Light (Reflector) Fixture Removal	Not Present	0	\$50.00	\$0.0
Sheet Flooring with Friable Backer Removal	Not Present	0	\$4.00	\$0.0
2. Fire Door Removal	Not Present	0	\$100.00	\$0.0
3. Door and Window Panel Removal	Not Present	0	\$100.00	\$0.0
4. Decontamination of Crawlspace/Chase/Tunnel	Not Present	0	\$3.00	\$0.0
5. Soil Removal	Not Present	0	\$150.00	\$0.0
6. Non-ACM Ceiling/Wall Removal (for access)	Not Present	0	\$2.00	\$0.0
7. Window Component (Compound, Tape, or Caulk) - Reno & Demo	Not Present	0	\$300.00	\$0.0
8. Window Component (Compound, Tape, or Caulk) - Reno Only	Not Present	0	\$300.00	\$0.0
9. Resilient Flooring Removal, Including Mastic	Reported Asbestos-Containing Material	7990	\$3.00	\$23,970.0
0. Carpet Mastic Removal	Not Present	0	\$2.00	
1. Carpet Removal (over RFC)	Not Present	0	\$1.00	\$0.0
2. Acoustical Tile Mastic Removal	Not Present	ő	\$3.00	\$0.0
3. Sink Undercoating Removal	Not Present	ő	\$100.00	
4. Roofing Removal	Not Present	ő	\$2.00	\$0.0
5. (Sum of Lines 1-34)	Total Asb. Hazard Abatement Cost for Re	enovation Wo		\$25,170.0
6. (Sum of Lines 1-27)	Total Asb. Hazard Abatement Cost for De			\$1,200.0
	. C.a Abatement Cost for De		••	Ψ1,200.0·

B. Removal of Underground Storage	e ranks			□ None Reported	
Tank No.	Location	Age	Product Stored	Size	Est.Rem.Cost
1. (Sum of Lines 1-0)			Total Cost For Removal Of Undergr	ound Storage Tanks	\$0.00
C. Lead-Based Paint (LBP) - Renovatio	n Only			☐ Add	lition Constructed after 1980
Estimated Cost For Abatement Contract	ctor to Perform Lead Moc	k-Ups			\$0.00
Special Engineering Fees for LBP Mod	k-Ups			\$0.00	
3. (Sum of Lines 1-2)			Total Cost for Lead-B	ased Paint Mock-Up	s \$0.00

D. Fluorescent Lamps & Ballasts Recycling	/Incineration		□ Not Applicable
Area Of Building Addition	Square Feet w/Fluorescent Lamps & Ballasts	Unit Cost	Total Cost
1. 10658	0	\$0.10	\$0.00

E	Other Environmental Hazards/R	emarks	☐ None Reported		
r	Description				
1	(Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Renovation	\$0.00		
2	(Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Demolition	\$0.00		

F.	. Environmental Hazards Assessment Cost Estimate Summaries					
1.	A35, B1, C3, D1, and E1	Total Cost for Env. Hazards Work - Renovation	\$25,170.00			
2.	A36, B1, D1, and E2	Total Cost for Env. Hazards Work - Demolition	\$1,200.00			

^{*} INSPECTION ASSUMPTIONS for Reported/Assumed Asbestos-Free Materials (Rep/Asm AFM):

- Unless reported otherwise by the District, materials installed after 1980 are assumed to be asbestos-free. a.
- Unless reported otherwise by the District, small quantities (less than 1,000 square feet) of the following materials are assumed to be asbestos free: hard plaster, acoustical plaster and gypsum board systems; acoustical panels and tiles; fireproofing; 12"x12" floor tile and mastic.
- Unless reported otherwise by the District, all roofing materials are assumed to be asbestos-free.

Environmental Hazards - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904) - 1962 Addition

Owner:Willoughby-Eastlake City SDBldg. IRN:32904

Facility: Royalview Elementary School BuildingAdd: 1962 Addition

Date: Consultant Name:

A. Asbestos Containing Material (ACM)					estos Free Materia
ACM Found		Status	Quantity	Unit Cost	Estimated Cost
Boiler/Furnace Insulation Removal		Not Present	0	\$10.00	
Breeching Insulation Removal		Not Present	0	\$10.00	
Tank Insulation Removal		Not Present	0	\$8.00	
Duct Insulation Removal		Not Present	0	\$8.00	\$0.00
Pipe Insulation Removal		Not Present	0	\$10.00	\$0.00
Pipe Fitting Insulation Removal		Not Present	0	\$20.00	\$0.00
Pipe Insulation Removal (Crawlspace/Tunnel)		Not Present	0	\$12.00	\$0.00
Pipe Fitting Insulation Removal (Crawlspace/Tunnel)		Not Present	0	\$30.00	\$0.00
Pipe Insulation Removal (Hidden in Walls/Ceilings)		Not Present	0	\$15.00	\$0.00
10. Dismantling of Boiler/Furnace/Incinerator		Not Present	0	\$2,000.00	\$0.00
11. Flexible Duct Connection Removal		Not Present	0	\$100.00	\$0.00
12. Acoustical Plaster Removal		Not Present	0	\$7.00	\$0.00
13. Fireproofing Removal		Not Present	0	\$15.00	\$0.00
14. Hard Plaster Removal		Not Present	0	\$7.00	\$0.00
15. Gypsum Board Removal		Not Present	0	\$6.00	\$0.00
16. Acoustical Panel/Tile Ceiling Removal		Not Present	0	\$3.00	\$0.00
17. Laboratory Table/Counter Top Removal		Not Present	0	\$100.00	\$0.00
18. Cement Board Removal		Not Present	0	\$5.00	\$0.00
19. Electric Cord Insulation Removal		Not Present	0	\$1.00	\$0.00
20. Light (Reflector) Fixture Removal		Not Present	0	\$50.00	\$0.00
21. Sheet Flooring with Friable Backer Removal		Not Present	0	\$4.00	\$0.00
22. Fire Door Removal		Not Present	0	\$100.00	\$0.00
23. Door and Window Panel Removal		Not Present	0	\$100.00	\$0.00
24. Decontamination of Crawlspace/Chase/Tunnel		Not Present	0	\$3.00	\$0.00
25. Soil Removal		Not Present	0	\$150.00	\$0.00
26. Non-ACM Ceiling/Wall Removal (for access)		Not Present	0	\$2.00	\$0.00
27. Window Component (Compound, Tape, or Caulk) - Reno & Demo		Not Present	0	\$300.00	\$0.00
28. Window Component (Compound, Tape, or Caulk) - Reno Only		Not Present	0	\$300.00	\$0.00
29. Resilient Flooring Removal, Including Mastic		Reported Asbestos-Containing Material	3270	\$3.00	\$9,810.00
30. Carpet Mastic Removal		Not Present	0	\$2.00	\$0.00
31. Carpet Removal (over RFC)		Not Present	0	\$1.00	\$0.00
32. Acoustical Tile Mastic Removal		Not Present	0	\$3.00	
33. Sink Undercoating Removal		Not Present	0	\$100.00	
34. Roofing Removal		Not Present	0	\$2.00	
35. (Sum of Lines 1-34)		Total Asb. Hazard Abatement Cost for R	enovation Wor	k	\$9,810.00
36. (Sum of Lines 1-27)		Total Asb. Hazard Abatement Cost for D	emolition Worl	k	\$0.00
B. Removal Of Underground Storage Tanks				П	None Reported
	Λαο	Product Stored	Size		st.Rem.Cost
	Age				
1. (Sum of Lines 1-0)		Total Cost For Removal Of Undergro	und Storage Ta	INKS	\$0.00

	Tank No.	Location	Age	Product Stored	Size	Est.Rem.Cost	
	1. (Sum of Lines 1-0)			Total Cost For Removal Of Underground	Storage Tanks	\$0.00	
	C. Lead-Based Paint (LBP) - Renovation Only						
- [1. Estimated Cost For Abatement Contra	ctor to Perform Lead Mock-	Jps			\$0.00	
	2. Special Engineering Fees for LBP Mod	ck-Ups				\$0.00	
- 1	3 (Sum of Lines 1-2)			Total Cost for Load-Based	Paint Mack-Ha	\$0.00	

D. Fluorescent Lamps & Ballasts Recycling/Incineration						
Area Of Building Addition	Square Feet w/Fluorescent Lamps & Ballasts	Unit Cost	Total Cost			
1. 4360	0	\$0.10	\$0.00			

E.	E. Other Environmental Hazards/Remarks					
	Description					
1.	(Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Renovation	\$0.00			
2.	(Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Demolition	\$0.00			

F	Environmental Hazards Assessment Cost Estimate Summaries						
1.	A35, B1, C3, D1, and E1	Total Cost for Env. Hazards Work - Renovation	\$9,810.00				
2	A36, B1, D1, and E2	Total Cost for Env. Hazards Work - Demolition	\$0.00				

 $^{{}^*\: \}text{INSPECTION ASSUMPTIONS for Reported/Assumed Asbestos-Free Materials (Rep/Asm AFM):}$

- a. Unless reported otherwise by the District, materials installed after 1980 are assumed to be asbestos-free.
- b. Unless reported otherwise by the District, small quantities (less than 1,000 square feet) of the following materials are assumed to be asbestos free: hard plaster, acoustical plaster and gypsum board systems; acoustical panels and tiles; fireproofing; 12"x12" floor tile and mastic.
- c. Unless reported otherwise by the District, all roofing materials are assumed to be asbestos-free.

Environmental Hazards - Willoughby-Eastlake City SD (45104) - Royalview Elementary School (32904) - 1966 Addition

Willoughby-Eastlake City SD Owner: Bldg. IRN: 32904 Facility: Royalview Elementary School BuildingAdd: 1966 Addition

Date: Consultant Name:

A. Asbestos Containing Material (ACM) AFM=Asbestos Free N						
ACM Found	Status	Quantity		Estimated Cost		
Boiler/Furnace Insulation Removal	Not Present	0	\$10.00			
Breeching Insulation Removal	Not Present	0	\$10.00			
Tank Insulation Removal	Not Present	0	\$8.00	\$0.00		
Duct Insulation Removal	Not Present	0	\$8.00	\$0.00		
Pipe Insulation Removal	Not Present	0	\$10.00	\$0.00		
Pipe Fitting Insulation Removal	Not Present	0	\$20.00			
7. Pipe Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$12.00	\$0.00		
Pipe Fitting Insulation Removal (Crawlspace/Tunnel)	Not Present	0	\$30.00	\$0.00		
Pipe Insulation Removal (Hidden in Walls/Ceilings)	Not Present	0	\$15.00	\$0.00		
10. Dismantling of Boiler/Furnace/Incinerator	Not Present	0	\$2,000.00			
11. Flexible Duct Connection Removal	Not Present	0	\$100.00	\$0.00		
12. Acoustical Plaster Removal	Not Present	0	\$7.00	\$0.00		
13. Fireproofing Removal	Not Present	0	\$15.00	\$0.00		
14. Hard Plaster Removal	Not Present	0	\$7.00	\$0.00		
15. Gypsum Board Removal	Not Present	0	\$6.00	\$0.00		
16. Acoustical Panel/Tile Ceiling Removal	Not Present	0	\$3.00	\$0.00		
17. Laboratory Table/Counter Top Removal	Not Present	0	\$100.00	\$0.00		
18. Cement Board Removal	Not Present	0	\$5.00	\$0.00		
19. Electric Cord Insulation Removal	Not Present	0	\$1.00	\$0.00		
20. Light (Reflector) Fixture Removal	Not Present	0	\$50.00	\$0.00		
21. Sheet Flooring with Friable Backer Removal	Not Present	0	\$4.00	\$0.00		
22. Fire Door Removal	Not Present	0	\$100.00	\$0.00		
23. Door and Window Panel Removal	Not Present	0	\$100.00	\$0.00		
24. Decontamination of Crawlspace/Chase/Tunnel	Not Present	0	\$3.00	\$0.00		
25. Soil Removal	Not Present	0	\$150.00	\$0.00		
26. Non-ACM Ceiling/Wall Removal (for access)	Not Present	0	\$2.00	\$0.00		
27. Window Component (Compound, Tape, or Caulk) - Reno & Demo	Not Present	0	\$300.00	\$0.00		
28. Window Component (Compound, Tape, or Caulk) - Reno Only	Not Present	0	\$300.00	\$0.00		
29. Resilient Flooring Removal, Including Mastic	Reported Asbestos-Containing Material	31620	\$3.00	\$94,860.00		
30. Carpet Mastic Removal	Not Present	0	\$2.00	\$0.00		
31. Carpet Removal (over RFC)	Not Present	0	\$1.00	\$0.00		
32. Acoustical Tile Mastic Removal	Not Present	0	\$3.00	\$0.00		
33. Sink Undercoating Removal	Not Present	o	\$100.00			
34. Roofing Removal	Not Present	Ō	\$2.00	\$0.00		
35. (Sum of Lines 1-34)	Total Asb. Hazard Abatement Cost for Re	enovation Wor		\$94,860.00		
36. (Sum of Lines 1-27)	Total Asb. Hazard Abatement Cost for Do			\$0.00		
				70.00		
B. Removal Of Underground Storage Tanks				None Reported		
b. Removal of officerground officage falls				None iveboried		
Taril Nia	Due do et Otene d	0:		4 D O4		

B. Kellioval Of Officerground Storag	je ranks				□ None Reported
Tank No.	Location	Age	Product Stored	Size	Est.Rem.Cost
1. (Sum of Lines 1-0)			Total Cost For Removal Of Underground	Storage Tanks	\$0.00
C. Lead-Based Paint (LBP) - Renovation Only					
1. Estimated Cost For Abatement Contra	actor to Perform Lead Mocl	k-Ups			\$0.00
Special Engineering Fees for LBP Mo	ck-Ups				\$0.00
3. (Sum of Lines 1-2)			Total Cost for Lead-Based F	Paint Mock-Up:	s \$0.00

D. Fluorescent Lamps & Ballasts Recycling/Incineration						
Area Of Building Ad	dition	Square Feet w/Fluorescent Lamps & Ballasts	Unit Cost	Total Cost		
1. 42569	o		\$0.10	\$0.00		

E. Other Environmental Hazards/F	Other Environmental Hazards/Remarks					
	Description					
1. (Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Renovation	\$0.00				
2. (Sum of Lines 1-0)	Total Cost for Other Environmental Hazards - Demolition	\$0.00				

F.	nvironmental Hazards Assessment Cost Estimate Summaries					
1.	A35, B1, C3, D1, and E1	Total Cost for Env. Hazards Work - Renovation	\$94,860.00			
2.	A36, B1, D1, and E2	Total Cost for Env. Hazards Work - Demolition	\$0.00			

^{*} INSPECTION ASSUMPTIONS for Reported/Assumed Asbestos-Free Materials (Rep/Asm AFM):

- a. Unless reported otherwise by the District, materials installed after 1980 are assumed to be asbestos-free.
- Unless reported otherwise by the District, small quantities (less than 1,000 square feet) of the following materials are assumed to be asbestos free: hard plaster, acoustical plaster and gypsum board systems; acoustical panels and tiles; fireproofing; 12"x12" floor tile and mastic.
- Unless reported otherwise by the District, all roofing materials are assumed to be asbestos-free. C.