MARSHALL PUBLIC SCHOOLS

Board of Education Regular Meeting Minutes Board Room October 21, 2015

The meeting was called to order by Jon Bunch at 6:00 p.m. as duly posted under State Statutes §19.84(1)(2)(c).

Roll Call of the Board

Board of Education Present: Jon Bunch, Cecil Chadwick, Bonnie Clayton, Debbie Frigo, Sandra Litang-Canon, John Lutz, Michelle Voigts

Board of Education Absent:

Administration Present: Lisa Blochwitz, Bob Chady, Rich Peters, Brian Sniff, Barb Sramek, Becca Stein, Brian Sutton

Approval of Agenda

A motion to approve the agenda as presented was made by Lutz and seconded by Voigts. Carried 7-0.

Proof of Giving Public Notice

A motion that public notice was provided to The Courier on October 16, 2015 was made by Clayton and seconded by Bunch. Carried 7-0.

Consent Agenda

- A. Approval of receipts and expenditures. General Fund checks #88358 to #92015 and Activity Fund checks #16500 to #16507
- B. Board Minutes dated September 16 and October 13, 2015
- C. Disposal of property none
- D. Approval of Resignations/Retirements
 - a. Geoff Collins MS Science Olympiad
 - b. Kate Brattlie Special Education Paraeducator
 - c. Joe Chadwick Freshmen Boys Basketball
- E. Offer contracts/letters of employment
 - a. Laurie JaDoul School Nutrition Services
 - b. Carly Knoche MS Science Olympiad
 - c. Rosie Vela Special Education Paraeducator
- F. Second reading regarding Board policy:
 - a. 322 School Day

Motion by Chadwick, seconded by Lutz to remove the Approval of Expenditures from the Consent Agenda, and add it to the end of the Agenda as a separate item. Carried 7-0.

Motion by Lutz, seconded by Canon, to approve all remaining items (excluding item A) on the consent agenda as presented. Carried 7-0.

Reports

Committee Reports

Curriculum Committee - The October committee meeting featured the Social Studies Departments and Middle School Students sharing their existing curriculum and projects with the Board.

Finance Committee - John Lutz reported that they received information on energy projects and budget information.

Legislative Report - Jon Bunch shared info on legislation that has been introduced, limiting the timing of school referendums after a failed referendum. Barb Sramek indicated that there is a proposal to eliminate Act 32 for energy savings and legislation that has been introduced regarding the use of school bathrooms and locker rooms for transgender students.

Old Business - none

New Business

Discussion and potential action regarding a request by the boys basketball program for an overnight trip

Jason McConnell, high school boys basketball coach, presented information regarding The varsity team's attendance of a tournament at Concordia University. The trip is funded through the basketball team activity account. Motion by Frigo, seconded by Voigts to approve the overnight trip. Carried 7-0.

Discussion regarding Student/School Learning Objectives (SLOs)

Each building principal shared information on their building specific SLOs.

- Rich Peters, ELC Principal, shared that ELC focus is on literacy with a goal of moving from 76% to 86% of students reading at benchmark.
- Becca Stein, Elementary Principal, shared the assessment data for the Elementary School. After looking at STAR assessment results from Fall 2015, building objectives were set with a focus on literacy and improving instructional practices. The building goal is to move from 30% to 68% of students scoring proficient or advanced. by Spring, 2016.
- Lisa Blochwitz, Middle School Principal, shared that their focus is moving all students forward to
 next proficiency level in literacy. The focus on literacy extends to every classroom. For example,
 social studies classes emphasize vocabulary and writing, while math teachers are using literacy
 goals to have students articulate their math understanding.
- Brian Sniff, High School Principal, shared that only 6% of students achieve an Advanced score for the ACT assessment. Now all Juniors take the exam, so the baseline has changed. That change makes it difficult to compare results with previous years.

No Action Sought

Discussion and potential action regarding Youth Options requests

Motion by Lutz, seconded by Canon, to approve Youth Options requests as presented, limited to 18 credits per student, throughout their high school career. Additionally the Board is not required to pay for courses under Youth Options if the District offers a comparable course. Carried 7-0.

Discussion and potential action regarding approval of an Energy Efficiency (Revenue Limit) Exemption for Act 32 projects

Motion by Bunch, seconded by Lutz, to approve and utilize the Revenue Limit Energy Efficiency Exemption (related to current Act 32 work throughout the District) as provided below. Carried 7-0.

RESOLUTION FOR REVENUE LIMIT EXEMPTIONS FOR ENERGY EFFICIENCIES

Be it resolved that the Marshall Public School District is exercising its taxing authority under §121.91(4)(o), Wis. Stats., to exceed the revenue limit on a non-recurring basis by an amount the district will spend on new energy efficiency measures and energy efficiency products for the 2015-16 school year and 20 years of debt for the term of the \$8,000,000 General Obligation Refunding Bonds dated September 2, 2015.

The amount to be expended annually via debt service payments on the above noted obligations is as follows:

School Year	Amount		School Year	Amount
2015-2016	\$310,585		2025-2026	\$311,450
2016-2017	\$311,450	mail:	2026-2027	\$1,053,238
2017-2018	\$311,450	FIGURE .	2027-2028	\$1,054,325
2018-2019	\$311,450	TO SE	2028-2029	\$1,057,225
2019-2020	\$311,450	200	2029-2030	\$1,053,825
2020-2021	\$311,450	0 050	2030-2031	\$1,054,125
2021-2022	\$311,450		2031-2032	\$1,053,025
2022-2023	\$311,450	1886	2032-2033	\$1,052,913
2023-2024	\$311,450	Market William	2033-2034	\$1,056,300
2024-2025	\$311,450		2034-2035	\$1,055,700

After review of the recommendations report per §66.0133(2)(b), Wis Stats., the district has determined that the \$11,619,774 it would spend on energy efficiency projects recommended in the report is not likely to exceed the amount to be saved in utility costs of \$80,170 and non-utility costs of \$500,819 over the remaining 75 year useful life of the facility to which the measures apply.

The board has entered into a 20 year performance contract under §66.0133, Wis. Stats., with McKinstry Essention, LLC for a project to implement the following energy efficiency measures or purchase energy efficiency products and identified the following cost recovery performance indicators to measure energy savings and/or operational savings for each including the timeline for cost recovery:

See Attachment A for a list of each energy efficiency measure/product with related cost recovery performance indicators, estimated cost, estimated savings and payback period. Also provided are McKinstry Table 3.1 - Energy Savings Summary and Table 4.2 – Facility Improvement Measure (FIM) Summary.

The Board shall annually perform an evaluation of the performance indicators and shall report to the electorate as an addendum in the required published budget summary document per §65.90, Wis. Stats., and in the school district's newsletter or in the published minutes of the school board meeting. The Board shall use this evaluation to determine the amount of energy (utility) cost savings, as a result of the project, that shall be applied to retire the debt.

Discussion and potential action regarding the October 15-16 Budget Adjustments

Bob Chady presented the adjustments to revenue and expenditures that have been made since the budget was presented to the Board on October 19. Motion by Voigts, seconded by Canon, to approve the revised budget as presented. Carried 7-0.

Discussion and potential action regarding setting the 2015 tax levy.

Motion by Lutz, seconded by Canon, that the Board of Education set the tax levy to fund the 2015-16 School District budget at \$4,746,178.00. Further, the Board Clerk shall certify said levy and forward to the clerk of the respective municipalities, their tax levy certification form. Carried 7-0

Discussion and potential action regarding approval of withdrawal from the Local Government Property Insurance Fund.

Motion by Voigts, seconded by Chadwick, approving the District withdrawal from the Local Government Property Insurance Fund to accept the proposal from Chubb Insurance Company as our property insurance provider, effective December 1, 2015. Carried 7-0.

Discussion regarding Board self-evaluation

No Action Sought

Discussion of future board agenda items

Recognition of staff members for their accomplishments was recommended as a future agenda item. Scheduled a special meeting and work session for November 4 at 6:15 p.m. No Action Sought

Approval of Receipts and Expenditures

Motion by Canon, seconded by Lutz, to approve receipts and expenditures, including General Fund checks #88358 to #92015 and Activity Fund checks #16500 to #16507. Carried 7-0.

Adjournment

A motion to adjourn was made by Voigts and seconded by Canon. Carried 7-0.

Meeting adjourned at 8:00 p.m.

Respectfully submitted,

Bonnie Clayton, Clerk

Attachment A

Use to collect information for resolution to exceed the revenue limit for energy efficiency projects.

	וומב וווווור ומו	energy eniciency projects	cts.			Attac	Attachment A
Name of School District	Marshall P	Marshall Public Schools	A Comment				
Name of Qualified Contractor	McKinstr	McKinstry Essention					
Contract Length (years)		20					
Total Project Cost*	\$11,6	\$11,619,774	Project is still in	Project is still inconstruction period until Fall 2016	til Fall 2016		
Total Project Payback Period		20	3				
Years of Debt Payments	3.7811.98-	20		4			
Remaining Useful Life of the Facility		75					
	NWIN	SUMMARY COST/SAVINGS ANANLYSIS	GS ANANLYSIS			-	ſ-
PROJECT EXPEN	ENDITURES	-		Pavback Years	PRO	PROJECT COST SAVINGS	- SEN
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	el .	i i	S S	3			
		IS I			F. 1. 3 W.		
							-
		,	Total Project		Total Annual	Total Annual	-
		Financing Cost	Cost Including	, 4	Utility Cost	Non-Utility	One-time
Specific Energy Efficiency Measure or Products	Project Cost	(Interest)	Financing	Cost/Savings	Savings	Cost Savings	Savings
Boiler Replacements	\$ 228,701		\$ 228,701	\$ 21.417821	\$ 581	\$ 9,857	\$ 3,000
Building Envelope	83,628	010	83,628	12.583208	3,042	3,604	[
Exterior Lighting	170,401	4 7 7 7	170,401	13.605607	4,890	7,344	3,950
Interior Lighting	1,983,164	100	1,983,164	17.633406	25,737	85,476	22,100
Masonry & EFIS Upgrades	115,400		115,400	23.200643	1	4,974	•
Roofing Upgrades	2,749,376		2,749,376	22.686118	2,692	118,500	G
Water Conservation	95,161	W. L. W. L. W.	95,161	7.482387	8,617	4,101	
ES Chiller Replacement	268,767	4.0	268,767	46.562407	3,919	11,584	12,000
HS Chiller Replacement	265,254	Comment of the second	265,254	14,948477	5,375	11,433	14,000 1
Controls Upgrade	228,968	4	228,968	8,575902	16,830	698'6	
Destratification Fans	29,319		. 29,319	17.125584	448	1,264	
HS Domestic Hot Water Heater Replacement	46,997	33	46,997	19.796546	348	2,026	
HS Masonry Rehabilitation	86,550	100	. 86,550	23.203753		3,730	•
HS Wall Cladding	249,171	The state of the state of	249,171	23.202440	10.00	10,739	
HS Water Softener Replacement	33,178		33,178	23.201399	18	1,430	
MS Domestic Hot Water Heater Replacement	42,753	100	42,753	20.034208	291	1,843	
Window Replacement	825,291		825,291	23.179727	33	35,571	7
Door Replacement	77,607		709'22	22.009926	181	3,345	į
Masonry Rehabilitation	63,326		63,326	23.204837	•	2,729	į
Mechanical Upgrades	3,763,942	*	3,763,942	22.373765	5,734	162,228	6,000
Phone System Upgrades	209,530		209,530	23.201240		9,031	-
Vending Machine Controls	3,289		3,289	2.202947	1,351	142	•
Entire Energy Efficiency Project *	\$ 11,619,774		\$ 11,619,774		\$ 80,169	\$ 500,819	\$ 61,050

בופ	Electricity Utility Savings	vings	He	Heating Utility Savings	vings	Heating Utility Savings		Water Utility Savings	vines	
					. 1.		e e	19		
Measurement Units KwH	Unit Savings	Cost per Unit	Measurement Unit Cost Savings Therms	Cost per Unit Savings Unit	Cost per Unit	Cost Savings	Measurement Units	Unit Savines	Cost per Unit	Cost Savings
KwH	٠	×	- Therms	757	006.0	200	lons			0
KwH	•	1	- Therms	3,464	878.0	3,042	Gallons			
KwH	81,491	90.0	4,890 Therms		1		Gallons			
KwH	212,803		27,910 Therms	(2,474)	6.879	(2,174)	(2,174) Gallons:			
KwH	ř	•	- Therms			ř	- Gallons			
KwH	•	ije o	- Therms	3,019	0.892	2,692	2,692 Gallons			
KwH		٠	Therms	1,004	0,886	890	890 Gallons	627.572	0.01232	7.739
КwН	30,147	0.13	3,919 Therms		2		Gallons			
KwH	41,347	0.13	5,375 Therms	1.7	74	•	Gallons			
KwH	64,389	0.13	8,371 Therms	9,400	006'0	8,460	Gallons			
KwH	1,074	0.13	139 Therms	345	0.893	308	Gallons			
КwН	•	1.	- Therms	387	668.0	348	348 Gallons			
KwH	•	•	- Therms			1	Gallons			
KWH	•		- Therms	(A)	14	3	Gallons.			
KWH:			- Therms		•	•	Gallons		254	
KWH	7	•	- Therms	331	678.0	291	291 Gallons.			
KWH	•	9	- Therms in the second	38.	.0.868	33	33 Gallons			
HMY		,	- Therms	- 206	0.879	181	181 Gallons			
,wn	*		- Therms			*	Gallons			
NWT WITH	41,018	0.13	5,332 Therms	456	0.882	402	Gallons			
YWH.	•	•	Therms		10.0	*	- Gallons			
KWH	10 391	012	1 254 - 150							

Annual Capital Cost Avoidance	dance	One-Time Savings	
Description	Cost Savings	Description	Cost Savings
Avoidance of using capital funds	\$ 9,857	9,857 Potential Incentives (Focus, etc)	\$ 3,000
Avoidance of using capital funds	3,604	Sea.	
Avoidance of using capital funds	7,344	7,344 [Potential Incentives (Focus, etc)	3,950
Avoidance of using capital funds	85,476	85,476 Potential Incentives (Focus, etc)	22,100
Avoidance of using capital funds	4,974		
Avoidance of using capital funds	118,500	1.0	4 4 5
Avoidance of using capital funds	4,101		17.6
Avoidance of using capital funds	11,584	11,584 (Potential Incentives (Focus, etc)	12,000
Avoidance of using capital funds	11,433	11,433 Potential Incentives (Focus, etc)	14,000
Avoidance of using capital funds	698'6		
Avoidance of using capital funds	1,264		
Avoidance of using capital funds	2,026		
Avoidance of using capital funds	3,730		
Avoidance of using capital funds	10,739		77
Avoidance of using capital funds	1,430		
Avoidance of using capital funds	1,843	あり、単位をはなっ	
Avoidance of using capital funds	35,571	THE RESIDENCE OF THE PARTY OF T	1777
Avoidance of using capital funds	3,345	4	
Avoidance of using capital funds	2,729		
Avoidance of using capital funds	162,228	162,228 Potential Incentives (Focus, etc)	6,000
Avoidance of using capital funds	9,031		
Avoidance of using capital funds	142		

Table 42 - Facility Improvement Measure (FIM) Summary

Control of the same		The State of the S	NOTE SE		operators.	14 A		
Facility Improvement Instituted	7H Bastreton				数 第二		tent termination	diam'r.
(LC Baller Augitocomuni	Harmove the estating dryan bollers installed in 1993 and replace them with two new condensing Thermal Solutions with high efficiency but water bollers.	Marshall Early Learning Center	\$220,701	\$68 L	\$9,857	\$3,000	\$325,701	25
FLC Building Envelope	Seal the reof/mail infersection is all applicable areas, replace deer sweeps and weather stripping throughout the budging and cault around all windows to minimize air infitretion	Marshall Early	120,447	\$723	\$881	10	\$20,447	10 - 30
ELC Enterior Lighting	into and from the turiding. Replace the existing exterior lighting including building well packs, enhancement lighting.	Harshall Garly	\$27,727	1735	\$1,195	3750	\$26,977	15
CC Extense Cigrang	walk-ney highling and parking let behing white new LEO fixtures and lamps. Replace the existing fluorescent righting throughout the exhaut except the gymbalking with	Learning Center	\$27,727	1733	\$2,193	\$750	\$20,077	15
ELC Interior Lighting LED	new LSD flatures and temps. Replace the existing gymnestum fluorescent flatures with new High efficient fluorescent flatures with program start liablacts. Claseroom lighting will have immuning capabilities.	Hardisa Barby Learning Center	\$301,572	\$3,188	112,998	\$5,500	\$296,072	20
ELC Masonry & EIFS Jpgfådes	Remove and realizes all coult on the extentor of window. Loyek joint, grind all movement and structural cracks in the measury and re-caule with prephane seatant. Cault sit vertical joints in one lefts band on the top permission of the building, waterbins tell's to clean material, remove debris and discolorations and soid a layer of electronic couling to help maintain EIT in Magrity.	Haraball Early Learning Conter	\$115,400	\$0	\$4,974	\$0	\$115,400	13
LC Routing Uppredes	Tear the existing exphait shingled roof off to the weeden underlayment and replace with now strinding seem metal roof system.	nershall Barry Learning Cester	\$97,715	\$0	\$4,212	\$0	\$97,715	40
LC Water Conservation	Replace flush tubes, flow restrictors and disphragms in tollats, sinks, shawers and urinels to robulius a water flow while maintaining required levels to expel waste and maintain sewings points.	Marshall Early Learning Center	\$19,494	\$1,637	1840	#0	\$19,494	5 - 40
Management of the Contract of		STATE OF THE PARTY	THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	44 007	311801	ALC: UNKNOWN	tion lies	TERRET
S Hulkshij Envelope	Said the restrict interaction is all applicable store, replace duer visiting and very local stringship foreignous the behalfug and saids as ound all entires to informate all infiltration tole and from the building.	Elementary	\$26,758	\$1,134	\$1,153	\$0	\$24,75B	10 - 30
S CNVer Repläcement	Replace the existing HeQuey clotter and replace with a 247 nominal longage variable speed access at cooled chiller. Hostily the activing teetrop supports as required to keep chiller on the roof.	Marshell Elementery	\$268,767	\$3,919	\$11,584	\$12,000	\$256,767	23
S Exterior Ughting	the root. Replace the existing exterior fighting including building wall packs, enhancement lighting, mailway, lighting and parting lot lighting with new LEO fixtures and larges.	Marshill Elimentary	\$56,852	\$1,248	\$2,450	\$1,100	#55,752	15
S Interior Lighting LED	Replace the existing fluorescent lighting throughout the scheel except the gynnastion tolls new LEO Extures and lamps, Replace the existing gyrineation fluorescent flutures with resi- lage efficient fluorescent flutures with gargram start balancia, Chestroom Sphing will favor	Marinali Unimintery	\$544,267	\$8,94L	\$23,458	\$5,600	(530,667	20
RiWater Canencyettan	disturbing capatibilities. Applies flush tobes, flow restrictors and disphrapms in todate, sinks, abovese and winels to recipionare water flow white maiddabing required levels to expert wests and maiddab assembly picture.	Marshan	\$30,542	\$1,803	11,315	40	420 547	5-40
l, Mədər Çonsərvəliğin	highing. 1974	Elementary.	\$30,542	\$1,803	11,116	10	\$20,542	3.40
E Building Envelope	See the rectived intersection to all applicable great, raptace deer sweeps and meaturer tripping throughout the building to meaning at indicates into and travelles building.	Morehall High	\$25,027	\$924	\$1,079	f 50	\$25,027	10 - 20
Chiller Replacement	to point throughout the building to minimize an indirector into and have the building. Ramove the solding childrend provide a replacement with a variable speed force and cooled children solding the solding supports as feedered to maintain ground placement.	School Harshall 10gh	\$265,354	\$5,375	\$11 ₂ 433	\$14,000	\$251,254	23
William Control	the chart the ambition control control which a new bodition article time system. Program	Marshall High	7		7.15 9.60			111111111111111111111111111111111111111
S Controls Upgrades	energy saving control strategies into the system to minimize: storegy composition. Control strategies to include occupancy based itVAC control, sound air centrol and expositionation.	School	\$220,968	\$16,830	19,869	\$0	\$220,95 6	15
Destroutication Fees	Add destrutification farm to the high school pyrineshim and high school cafetarts to aptimize as mixing and minimize air strauncation.	Hershall High School	\$17,959	\$276	\$774	, \$0	\$17,959	- 15
Demestic Hot Water later Replacement	Remove this existing PVI Turbopower 1200 MBH hot water heater and 600 guillon storage lank and replace it with two AO Emits Cyclesia MXI, 8716 290 het water heaters.	Marshell High School	\$48,997	(\$348	\$2,026	10	\$40,997	20
Esterior Lighting	Replace the existing exterior lighting including building wall parks, withercoment aghiting, well-way lighting and parking lighting with new LED fictures and target.	Marshall High School	646,683	62,812 1	32,014	\$1,000	\$64,003	15
Interior Lighting LED	Replace the autility thereesent lighting throughout the seriord except the gymnosium with new LED fixtures and large. Replace the existing gymnosium fluoreseast fixtures with new high efficient fluorescent fixtures with program start balletis. Clearways bybling will have dimining capabilities.	Marshall High School	\$612,677	:\$0,835	,126,407	\$8,000	4604,877	20
History habilitation	Coulty all particless and window ells, coulty all akpainting julips and could, all enovernant and obsection expects in this latest presently. All eroes of equiliting will have a substance transform commodes and for routed to achieve a most and underlying appearance.	Heimheil leigh Tighidal	\$ 64,550	\$0	\$3,730	10	\$64,550	15
Roofing Upgrades	Remove the extenting EPOH behinded your essentials, restlice any livel health his ensure as Scholles of Retinesphich the hollotting and register the rend systems risk a typhoth socker, rend system. All expenses exemples ne Pasting will be colored with attendance casting and heavy pre-decided restal contractioning, growing and copings will be because as all manage, while, particulars and person stocks.	Pleanell High School	\$1,546,369	\$1,606	\$66,649	fa	\$1,546,369	30
Wall Cladding	Instablies of 24 ps. Kynar pre-finished steel conceaued featurer furth will panel assembly ques the galvanited sub-framing above the EJFS. All work will match work three in summer 2014 at the Commiss.	Marzhell High School	\$249,171	10	\$10,739	10	\$140,171	40
Water Conservation	replace than mobbs, they restricture and displication in fulfels, aloks, excesses and criticis to reproduce water flow while maintaining required levels to expet maste and maintain sowings oppose.	Marahall High School	\$28,052	\$3,313	\$1,209	10	\$24,05Z	\$ - 40
Water Softmar	Replace the existing water enfaner system with a new water softener with on-damend	Hershall High School	433,176	10	\$1,430	\$Q	\$33,178	15
			11/1002111	31730	5120.110	222 AGG 0	12.142.035	
Building Envelops	Seal the roeffued intersection in all applicable areas, replace difor science and weather stripping throughout the building be estimate air lettly adult letter and from the building.	Marabell Mode School Maraball Mode	\$31,396	\$361	\$491	80	\$11,395	10 - 30
Comestic Hot Water	Add deskraufisetion fans to the synthastom of the middle school to old in air circulation and midelig. Remove the time Back 395 (40H damestic but water heaters and install (2) AO Sinith.	School Marshall Hiddle	\$11,360	6172	\$490	\$0	\$11,360	15
ater Replacements	Cyclone FOI BTH 250 water healers. Expand the subting windows to increase the size and replace with high efficient alchinum.	School Marshall Hiddle	\$42,753	\$291	\$1,840 1_(\$35,571	\$0	\$42,753	20
inda art:	non-operational windows with new solid surface elegan stils." Remove and replace all estation paradonal entry debra, frames and hardware around the	School Marshall Middle	\$77,607	\$33 \$101		10	1025,291	
DISCRIBACK.	Meddie Schrigt. Replace the existing exterior lighting beduiting building well packs, enhancement lighting, waxway lighting and jerfishg (at bijothing with new LKO liktures and telept.	School Marahali Middle	\$19,139	6295	\$3,345 1825	\$0	\$77,607 \$18,839	20
	Replace the existing Buorascert lighting throughout the school except the gymnasium with new LED fixtures and lamps, Replace the existing gymnasium flugrescent fixtures with new	School Marshall Middle School	\$524,648	\$4,773	\$22,613	\$3,000	\$521,640	30
Margany	dismoving capabilities Tuck-point brick venner in applicable locations and remove and replace cault is expension Location of the property of	Marafiall Hydidle	\$63,326	10	12,729	10	\$63,326	is
i population	maximery on the south elevation intry #3 awning, Sofft Joints of entry #5 mill be resealed with archance settle and pointed. Commons the FNAC rystein in its entirety (except for the botter plant) including all all juriders, plotting and controls. In areas supplied by unit imputibles, hastell resetupe units only VAV busing with releast for each some. Peripheter rediction will be habitated smith each only VAV busing with releast for each some. Peripheter rediction will be habitated smith each only VAV busing with releast for each some. Peripheter rediction will be habitated smith each only VAV busing with releast for each some.	Scheol				1 -1		1
tyqar editation	except for a new all the fine entire area, Inglant 2 pot ten are comes channe are permitted to the first permitted and the fir	Marshall Hiddiu School	\$3,763,942	\$5,734	\$162,228	\$6,000	13,757,942	20 - 25
Roofing Upgrades	upbrid built-up roof system. New ore-finished metal equinterfleshing, guitters and copings will be installed at all flashings, walls, perfessives and benefrations.	Maishall Hiddle School	\$1,105,292	\$1,066	947,639	6 0	11,105,292	20
Water Centervation r		Michael Middle School	\$17,077	11,864	\$736	10	\$17,073	20 - 25
	Managaran Barateria da managaran kanan managaran kanan da managaran kanan kanan kanan kanan kanan kanan kanan k		H DECIDED	014.000	TUMOR	(0,760		1 m 10 m
	replace the extating phane system throughout the district with new hardware and software	Marshall riigh	\$209,530	10	19,031	\$0	\$209,530	10
We ZAare Obdison	th security alert, actall venting machine controls throughout the school districts eligible venting machines	School						

Since design cost, sucit cost, etc. are distributed among the PIMs, the total project cost will not go up or down by exactly the amounts shown here if a FIM or FIMs are dropped, for non-recurring operational savings, the values are averaged over the 20 year length of this analysis.

Intentives are contingent on final approval and are not guaranteed. Funds are shown for reference only,

Positroped durations are not quaranteed. Our attoos are shown for reference only.



Table 3.1- Energy Savings Summary

Marshall Public Schools Prefinal

(2) and a production of the second	A CHARLES	let Eletove		ctricity	Wate	rai Gas	TELEVISION OF	Nater	1000	evier	- Tatel
Pocetty Improvement Measures	Facility	fict Effective Gustantee Hult pl	kWh	kwn (s)	Trem	Tourin (5)	¢'Cf	CCF (5)	ccı	CCF (5)	(3)
ELC Boller Replacement	Marshall Early Learning Center	90.0%	0	\$0	757	\$681	0	\$0	D	\$0	\$681
ELC Building Envelope	Marshall Early Learning Center	90.0%	0	\$0	804	\$723	0	\$0	n	\$0	\$722
ELC Exterior Lighting	Marshail Early Learning Center	90,0%	12,243	\$735	0	\$0	a	\$0		\$0	\$735
ELC Interior Lighting LED	Marshall Early Learning Center	88.7%	24,611	\$3,445	-286	-\$257	0	\$D	0	\$0	\$3,18
ELC Masonry & EIFS Upgrades	Marshall Early Learning Center	90,0%	0	\$0	0	\$0	0	50	o	\$0	\$0
ELC Roofing Upgrades	Marshall Early Learning Center	90,0%	0	\$0	o	50	0	\$0	o	\$0	\$0
ELC Water Conservation	Marshall Early Learning Center	90,0%	0	\$0	161	\$145	162	\$420	162	\$1,072	\$1,63
ES Building Envelope	Marshall Elementary	90,0%	0	\$0	1,335	\$1,134	0	40	0	\$0"	61,13
ES Chiller Replacement	Marshall Elementary	90.0%	30,147	\$3,919	.0.	\$0	0	\$0.	a	\$ \$0	\$3,91
ES Exterior Lighting	Marshall Elementary	90.0%	20,606	\$1,240	0	\$0	0	\$0	0	\$0	\$1,24
ES Interior Lighting LED	Morshall Elementary	88.7%	74,438	\$9,677	-9GG	-\$736	0	\$0	D	\$0	\$8,94
ES Water ENGOnservation	Marshall Elementary	90.0%	. 0	\$0	223	\$190	176	- 4451	176	\$1,162	\$1,80
HS Building Envelope	Marshall Jegh School	90,0%	. 0	\$0	915	\$824	0	\$0	0	\$0	\$024
Replacement	Marshall High School	90.0%	41,347	\$5,375	0		0	\$0	0	\$0	\$5,375
HS Controls Upgrades	* Marshall High School	90.0%	64,389	\$8,371	9,400	\$8,460	0	\$0 *	0	\$0	\$16,83
HS Destratification Fans:	Marshall High School	90.0%	550	\$71	227	\$204	0	in do	ò	\$0	\$276
HS Domestic Hot Water Heater Replacement	Marshall High School	90,0%	0	\$0	387	: \$348	. 0	\$0	0	\$0	\$348
HS Exterior Lighting	Marshall high School	90.0%	41,866	\$2,512	0	\$0	0	\$0	0	30	\$2,512
HS Interior Ughting LED	Marshall High School	DB.6%	73,906	\$9,608	-859	-\$773	0	\$0	0	\$0	\$0,835
HS Masonry Rehabilitation	Marshall High School	90.0%	o	\$0	_ 0	\$0	0	\$0	0	\$0	\$0
HS Roofing Upgrades	Marshall High School "	90.0%	a	\$0	1,785	\$1,606	0	\$0	0	\$0	41,606
HS Wall Cladding HS Water	Marshall High School	90.0%	0	,\$0 à	0	\$0	0	\$0	0	\$0_	10
Conservation	Marshall High School	190.0%	0	\$0	433	\$390	321	\$813	321	\$2,111	\$3,313
HS Water Softener Replacement	Marshall High School	90,0%	0	\$0	0	\$0	0	\$0	0	\$0	\$0
MS Building Envelope	Marshall Middle School	90.0%	0	\$D	410	\$361	0	\$0	0	50	\$361
MS Destratification Fans	Marshall Middle School	90.0%	524	\$68	118	\$104	0	\$0	0	\$0	\$172
MS Domestic Hot Water Heater Replacements	Marshall Middle School	90.0%	,0,	\$0	331. :	\$291	. 0	\$0	3×0 * 4	\$0	\$291
MS Enlarge & Replace Windows	Marshall Middle School	90.0%	O	\$0	36	\$33	0	\$0	0	\$0	\$33
MS Exterior Door Replacement	Marshall Middle School	90.0%	0	\$0	206	\$181	0	\$0	0	\$0	\$181
MS Exterior Lighting	Marshall Middle School	90.0%	6,576	\$395	0	\$0	0	\$0	0	\$0	\$395
MS Interior Ughting LED	Marshall Middle School	88.6%	39,848	\$5,180	-463	-\$408	0	\$0	0	\$0	\$4,773
MS Masonry Rehabilitation	Marshall Middle School	90.0%	0	\$0	0	\$0	0	\$0	0	\$0	\$0
MS Mechanical Upgrades	Marshall Middle School	90.0%	41,018	\$5,032	456	\$402	0	\$0	0	\$0	\$5,734
45 Roofing Upgrades	Marshall Middle School	90.0%	0	\$0	1,234	\$1,086	0	\$0	0	\$0	\$1,086
MS Water Conservation	Marshall Middle School	90.0%	O	\$0	187	\$165	180	\$502	181	\$1,198	\$1,864
Phone System Upgrades	Marshall High School	90,0%	0	\$0	0	\$0	0	\$0	o	\$0	\$0
Vending Machine Controls	Marshall High School	90,0%	10,391	\$1,351	0	\$0	o	\$0	D	\$0	\$1,351
	The same of the sa	Totals ***	482,659	\$57,287	16,933	\$15,155	639	\$2,185	840	\$5,543	\$80,170

The savings shown in this table are less than the calculated savings unless a guarantee multiplier of 100% is shown.

The guarantee is based on Key Performance Indicators shown in Table E4. Refer to Exhibit E of the ESP for the method of converting Key Performance Indicators to dollars during the M&V period.

The guarantee is based on the aggregate savings for all FIMs, not on Individual FIM sovings.