



Greater Albany Public Schools
May 2017 Ballot Measure 22-155

for School Repairs, Crowding and Job Training

CRITICAL FACILITY UPGRADES

ADA Improvements:	\$ 2,572,000
Architectural Improvements:	\$ 4,226,000
Envelope Improvements Including Roofs:	\$ 14,436,000
Exterior Improvements:	\$ 235,000
Fire/Life/Safety Improvements:	\$ 3,834,000
Hazardous Material Abatement & Floor Replacement:	\$ 3,977,000
Mechanical/Electrical/Plumbing Improvements:	\$ 17,205,000
Site Work Improvements:	\$ 2,425,000
Technology Improvements:	\$ 1,090,000
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	\$ 50,000,000

ELEMENTARY SCHOOLS

Oak Grove Elementary Site

Add new classrooms, a cafeteria, bus loading zone, and a modernization of the existing building creating a minimum capacity of 400 students. \$ 18,000,000

New Elementary School

Construct a new school with a minimum capacity of 500 students in Northeast Albany. \$ 36,000,000

HIGH SCHOOLS

West Albany High School

Construct the first phase of a school replacement which will include classrooms, multi-purpose commons space, vocational-technical education space, and an auditorium. \$ 42,000,000

South Albany High School

Auxiliary gymnasium/multipurpose vocational-technical education space \$ 3,500,000

Existing Little Theatre Renovations \$ 500,000

Modernization and expansion of vocational-technical education spaces \$ 6,000,000

MIDDLE SCHOOL VOCATIONAL-TECHNICAL

Middle School Vocational-Technical Education Space Remodeling \$ 3,000,000

TOTAL \$ 159,000,000

Note: Each project amount is an estimate, actual costs will vary.



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Critical Facility Upgrades by Location

Albany Community Pool	\$	1,218,000	
Albany Options School	\$	64,000	
Calapooia Middle School	\$	6,170,000	
Central Elementary School	\$	795,000	
Clover Ridge Elementary School	\$	85,000	
District Office	\$	475,000	
Facilities Building	\$	911,000	
Fairmount	\$	463,000	
Fir Grove Elementary School	\$	107,000	
Lafayette Elementary School	\$	3,417,000	
Liberty Elementary School	\$	2,949,000	
Memorial Middle School	\$	3,904,000	
North Albany Elementary School	\$	867,000	
North Albany Middle School	\$	4,948,000	
Oak Elementary School	\$	1,137,000	
Oak Grove Elementary School	\$	586,000	
Periwinkle Elementary School	\$	1,443,000	
South Albany High School	\$	7,946,000	
South Shore Elementary School	\$	2,259,000	
Sunrise Elementary School	\$	1,992,000	
Takena Elementary School	\$	1,006,000	
Tangent Elementary School	\$	799,000	
Timber Ridge School	\$	83,000	
West Albany High School	\$	4,601,000	
Waverly Elementary School	\$	1,784,000	
	\$	<u>50,009,000</u>	<i>(Not \$50M as a result of rounding)</i>



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Critical Facility Upgrades: Albany Community Pool

School	Item	Total Project Cost (\$)
Albany Community Pool	Replace fire alarm control panel with new. Add smoke detection as needed to comply with code for fully sprinklered building and mechanical system requirements. Add audible and visual notification appliances in occupied areas.	47,000
Albany Community Pool	Replace existing pool water heat exchanger and control valve.	66,000
Albany Community Pool	Install better ventilation for the pool mechanical area.	79,000
Albany Community Pool	Install insulation and/or protective finishes on metal services in the pool mechanical area.	39,000
Albany Community Pool	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	63,000
Albany Community Pool	Replace the boiler with a new more efficient boiler.	102,000
Albany Community Pool	Replace the four ventilation units with new units for higher ventilation rates.	598,000
Albany Community Pool	Roofing	157,000
Albany Community Pool	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	67,000
		1,218,000



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Critical Facility Upgrades: Albany Options School

School	Item	Total Project Cost (\$)
Albany Options School	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	64,000
		64,000



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Critical Facility Upgrades: Calapooia Middle School

School	Item	Total Project Cost (\$)
Calapooia Middle	Replace the tunnel exhaust fans with a new ventilation system.	27,000
Calapooia Middle	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	189,000
Calapooia Middle	Commission the controls to verify proper operation.	79,000
Calapooia Middle	Remove unused control panels and devices.	12,000
Calapooia Middle	Rebuild Tunnel fan systems in place at 6 ea. locations.	897,000
Calapooia Middle	Sections of the parking lot are failing.	677,000
Calapooia Middle	Replacement of Plumbing Fixtures and Piping	58,000
Calapooia Middle	Replace galvanized pipe with new copper pipe.	71,000
Calapooia Middle	Restrooms rehabilitation and ADA improvements	39,000
Calapooia Middle	Replace 250 lockers in PE locker rooms (& refurbish space as needed)	512,000
Calapooia Middle	Food Science Classroom Upgrade	366,000
Calapooia Middle	Roofing.	1,843,000
Calapooia Middle	Seismic reinforce gyms and cafeteria.	298,000
Calapooia Middle	Seismic capacity of connections along window walls recommended.	477,000
Calapooia Middle	Seismically reinforce boiler chimney or demo	29,000
Calapooia Middle	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	70,000
Calapooia Middle	IT wiring in modular.	16,000
Calapooia Middle	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	435,000
Calapooia Middle	Storm Water Emergency Generator	75,000

6,170,000



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Critical Facility Upgrades: Central Elementary School

School	Item	Total Project Cost (\$)
Central Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Central Elementary	Provide exhaust for kitchen equipment.	25,000
Central Elementary	Wheel chair Lift	364,000
Central Elementary	The parking lot pavement is failing.	110,000
Central Elementary	Replacement of Plumbing Fixtures and Piping	29,000
Central Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	77,000
Central Elementary	Intercom System: Remove existing system and replace with new.	39,000
Central Elementary	Restrooms rehabilitation and ADA improvements	121,000
		795,000



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Critical Facility Upgrades: Clover Ridge Elementary School

School	Item	Total Project Cost (\$)
Clover Ridge Elementary	Roofing	85,000
		85,000



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Critical Facility Upgrades: District Office

School	Item	Total Project Cost (\$)
District Office	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
District Office	Sidewalk in front of building is failing.	22,000
District Office	Roofing	370,000
District Office	Seismic brace ornate features over exit doors with Heli-Ties.	53,000
		475,000



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Critical Facility Upgrades: Facilities

School	Item	Total Project Cost (\$)
Facilities	Replacement Weld shop and storage (meet OSHA Requirement)	632,000
Facilities	Roofing	279,000
		911,000



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Critical Facility Upgrades: Fairmount

School	Item	Total Project Cost (\$)
Fairmount	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Fairmount	Replace older classroom unit ventilators with new gas furnaces.	63,000
Fairmount	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	51,000
Fairmount	Commission the controls to verify proper operation.	32,000
Fairmount	Replacement of Plumbing Fixtures and Piping	13,000
Fairmount	Replace all galvanized pipe with copper piping and insulate per code.	32,000
Fairmount	Roofing	230,000
Fairmount	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	12,000
		463,000



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Critical Facility Upgrades: Fir Grove Elementary School

School	Item	Total Project Cost (\$)
Fir Grove Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Fir Grove Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	77,000
		107,000



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Critical Facility Upgrades: Lafayette Elementary School

School	Item	Total Project Cost (\$)
Lafayette Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Lafayette Elementary	Replace Overhead Fire Doors	11,000
Lafayette Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	43,000
Lafayette Elementary	Commission the controls to verify proper operation.	39,000
Lafayette Elementary	Replace older unit ventilators.	19,000
Lafayette Elementary	Replace heat pumps with unit ventilators.	331,000
Lafayette Elementary	Replace Gym direct fired units and companion exhaust fans with more energy efficient and greater ventilation capacity units.	220,000
Lafayette Elementary	Replacement of Plumbing Fixtures and Piping	27,000
Lafayette Elementary	Replace galvanized domestic water piping with copper pipe and insulate.	43,000
Lafayette Elementary	Restrooms rehabilitation and ADA improvements	316,000
Lafayette Elementary	Roofing	1,868,000
Lafayette Elementary	Replace clock system.	35,000
Lafayette Elementary	Intercom System: Remove existing system and replace with new.	39,000
Lafayette Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	396,000
		3,417,000



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Critical Facility Upgrades: Liberty Elementary School

School	Item	Total Project Cost (\$)
Liberty Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Liberty Elementary	Replace Overhead Fire Doors	15,000
Liberty Elementary	Commission the controls to verify proper operation.	39,000
Liberty Elementary	Insulate all steam and condensate return piping, subject to units being replaced with other systems.	9,000
Liberty Elementary	Change Steam to 100% Hot Water Heating	79,000
Liberty Elementary	Replace the Multizone units with newer more energy efficient systems. Replace HVU and CEU units and the rooftop units with similar new units.	441,000
Liberty Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	79,000
Liberty Elementary	The existing parking lot paving is failing.	85,000
Liberty Elementary	The concrete along the existing building needs replacement.	28,000
Liberty Elementary	The parking lot is too small.	82,000
Liberty Elementary	Add parent loop.	194,000
Liberty Elementary	Replacement of Plumbing Fixtures and Piping	22,000
Liberty Elementary	Restrooms rehabilitation and ADA improvements	140,000
Liberty Elementary	Roofing.	1,360,000
Liberty Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	346,000
		2,949,000



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Critical Facility Upgrades: Memorial Middle School

School	Item	Total Project Cost (\$)
Memorial Middle	Replace electrical baseboard heat in B13.	9,000
Memorial Middle	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	205,000
Memorial Middle	Commission the controls to verify proper operation.	71,000
Memorial Middle	Remove unused control panels and devices.	12,000
Memorial Middle	Rebuild Tunnel fan systems in place at 8 ea. locations.	1,196,000
Memorial Middle	Replacement of Plumbing Fixtures and Piping	63,000
Memorial Middle	Replace galvanized pipe with new copper pipe.	71,000
Memorial Middle	Restrooms need finish and ADA improvements.	35,000
Memorial Middle	Food Science Classroom Upgrade	366,000
Memorial Middle	Replace 250 lockers in PE locker rooms (& refurbish space as needed)	512,000
Memorial Middle	Seismic capacity of connections at gyms and cafeteria.	288,000
Memorial Middle	Seismically reinforce boiler chimney or demo	29,000
Memorial Middle	Reinforce window walls.	477,000
Memorial Middle	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	74,000
Memorial Middle	IT wiring in modular.	16,000
Memorial Middle	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	405,000
Memorial Middle	Storm Water Emergency Generator	75,000

3,904,000



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Critical Facility Upgrades: North Albany Elementary School

School	Item	Total Project Cost (\$)
North Albany Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
North Albany Elementary	Replacement of Plumbing Fixtures and Piping	17,000
North Albany Elementary	Roofing.	555,000
North Albany Elementary	Intercom System: Remove existing system and replace with new.	39,000
North Albany Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	226,000
		867,000



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Critical Facility Upgrades: North Albany Middle School

School	Item	Total Project Cost (\$)
North Albany Middle	Replace MCC equipment at Boiler Room and Attic with new.	94,000
North Albany Middle	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
North Albany Middle	Replace overhead fire doors	15,000
North Albany Middle	Replace hallway heaters with like.	57,000
North Albany Middle	Replace the Multizone unit with newer more energy efficient unit. Replace HVU and CEU units with similar new units. To include lower gym units	937,000
North Albany Middle	Replace older classroom unit ventilators.	179,000
North Albany Middle	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all digital control devices. If new HVAC systems are installed, new digital controls to be provided.	165,000
North Albany Middle	Commission the controls to verify proper operation.	118,000
North Albany Middle	Remove abandoned panels and control devices.	12,000
North Albany Middle	Hard surface outdoor multipurpose court resurface	54,000
North Albany Middle	Replacement of Plumbing Fixtures and Piping	66,000
North Albany Middle	Replace all galvanized water piping.	28,000
North Albany Middle	Restrooms need finish and ADA improvements.	176,000
North Albany Middle	Replace 250 lockers in PE locker rooms (& refurbish space as needed)	510,000
North Albany Middle	Food Science Classroom Upgrade	397,000
North Albany Middle	Roofing	335,000
North Albany Middle	Checking seismic capacity of window wall areas recommended.	198,000
North Albany Middle	Seismic reinforce gyms and cafeteria.	310,000
North Albany Middle	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	79,000
North Albany Middle	Uninsulated window glazing. unable to obtain repair parts for opening hardware	851,000
North Albany Middle	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	337,000

4,948,000



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Critical Facility Upgrades: Oak Elementary School

School	Item	Total Project Cost (\$)
Oak Elementary	ADA Playground	84,000
Oak Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Oak Elementary	Replace Overhead Fire Doors	15,000
Oak Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	98,000
Oak Elementary	Commission the controls to verify proper operation.	39,000
Oak Elementary	Remove abandoned panels and control devices.	8,000
Oak Elementary	Replace classroom unit ventilators with new.	113,000
Oak Elementary	Replace Roof Top Unit with like.	-
Oak Elementary	Replace the Multizone units with newer more energy efficient systems. Replace HVU and CEU units and the rooftop unit with similar new units.	275,000
Oak Elementary	The original parking lot paving is failing.	91,000
Oak Elementary	Replacement of Plumbing Fixtures and Piping	27,000
Oak Elementary	Replace galvanized domestic water piping with copper pipe and insulate.	43,000
Oak Elementary	Restrooms rehabilitation and ADA improvements	140,000
Oak Elementary	Roofing	13,000
Oak Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	161,000
		1,137,000



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Critical Facility Upgrades: Oak Grove Elementary School

School	Item	Total Project Cost (\$)
Oak Grove Elementary	Replacement of Plumbing Fixtures and Piping	16,000
Oak Grove Elementary	Roofing Pod and Gym & Existing classrooms	342,000
Oak Grove Elementary	Replace (19) Trane units (2) 1-1/2 Ton, (7) 3 Ton, (3) 4 Ton, (3) 5 Ton, (4) 7-1/2 Ton) and (1) makeup air unit with new package rooftop units. Mixing boxes and duct work for heating two classrooms without RTU	161,000
Oak Grove Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	67,000
		586,000



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Critical Facility Upgrades: Periwinkle Elementary School

School	Item	Total Project Cost (\$)
Periwinkle Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Periwinkle Elementary	Commission the controls to verify proper operation.	39,000
Periwinkle Elementary	Replacement of Plumbing Fixtures and Piping	26,000
Periwinkle Elementary	Replace the remaining existing galvanized piping.	43,000
Periwinkle Elementary	Restrooms rehabilitation and ADA improvements	211,000
Periwinkle Elementary	Roofing.	669,000
Periwinkle Elementary	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	208,000
Periwinkle Elementary	Replace clock system.	35,000
Periwinkle Elementary	Intercom System: Remove existing system and replace with new.	39,000
Periwinkle Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	143,000

1,443,000



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Critical Facility Upgrades: South Albany High School

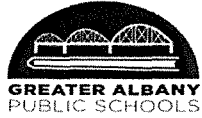
School	Item	Total Project Cost (\$)
South Albany High	Replace MCC equipment (some in attic and some on floor) at buildings 1 thru 10 and Central Plant with new.	619,000
South Albany High	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
South Albany High	Replace fiberglass ductwork.	252,000
South Albany High	Replace units that are 20 years and older and seismically brace.	2,430,000
South Albany High	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	472,000
South Albany High	Commission new controls to verify proper operation.	102,000
South Albany High	The pavement between the pool building and the gym/shop area is failing.	142,000
South Albany High	The pavement in student parking area is failing.	79,000
South Albany High	Replacement of Plumbing Fixtures and Piping	118,000
South Albany High	Restrooms rehabilitation and ADA improvements	280,000
South Albany High	Replace siding, windows, HVAC and roof on modular building.	138,000
South Albany High	Roofing.	2,331,000
South Albany High	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	141,000
South Albany High	Improved Safety Through Fencing & KeyScan Door Hardware System	279,000
South Albany High	Remove abandoned panels and control devices.	23,000
South Albany High	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	510,000
		7,946,000



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Critical Facility Upgrades: South Shore Elementary School

School	Item	Total Project Cost (\$)
South Shore Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
South Shore Elementary	Replace Overhead fire doors	15,000
South Shore Elementary	Replace the Multizone units with newer more energy efficient systems. Replace HVU and CEU units with similar new units.	386,000
South Shore Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	71,000
South Shore Elementary	Commission the controls to verify proper operation.	39,000
South Shore Elementary	Remove abandoned panels and control devices.	8,000
South Shore Elementary	The hard play area asphalt is deteriorating.	386,000
South Shore Elementary	The original parking lot paving is failing.	91,000
South Shore Elementary	Replacement of Plumbing Fixtures and Piping	29,000
South Shore Elementary	Replace galvanized domestic water piping with copper pipe and insulate.	43,000
South Shore Elementary	Restrooms rehabilitation and ADA improvements	140,000
South Shore Elementary	Replace siding, windows, HVAC and roof on modular building.	550,000
South Shore Elementary	Roofing.	349,000
South Shore Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	122,000
		2,259,000



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Critical Facility Upgrades: Sunrise Elementary School

School	Item	Total Project Cost (\$)
Sunrise Elementary	Old Cutler-Hammer load center (main corridor): Disconnect and remove load center. Intercept the existing three branch circuits and backfeed from nearest 2008-vintage panel.	32,000
Sunrise Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Sunrise Elementary	Replace Overhead Fire door	28,000
Sunrise Elementary	Change Steam to 100% Hot Water Heating	79,000
Sunrise Elementary	Insulate all steam and condensate return piping.	19,000
Sunrise Elementary	Remove all existing pneumatic controllers, actuators and thermostats. Install new digital controls for new air handlers.	87,000
Sunrise Elementary	Commission the controls to verify proper operation.	38,000
Sunrise Elementary	Remove abandoned panels and control devices.	12,000
Sunrise Elementary	Replace classroom unit ventilators with new.	38,000
Sunrise Elementary	Replace cafeteria and Gym and other HVU units with new, more energy efficient units.	441,000
Sunrise Elementary	Pave existing parking.	139,000
Sunrise Elementary	Replacement of Plumbing Fixtures and Piping	33,000
Sunrise Elementary	Replace galvanized domestic water piping with copper pipe and insulate.	43,000
Sunrise Elementary	Restrooms rehabilitation and ADA improvements	140,000
Sunrise Elementary	Roofing.	238,000
Sunrise Elementary	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	40,000
Sunrise Elementary	Uninsulated window glazing.	340,000
Sunrise Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	215,000
		1,992,000



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Critical Facility Upgrades: Takena Elementary School

School	Item	Total Project Cost (\$)
Takena Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Takena Elementary	Replace overhead fire doors	15,000
Takena Elementary	Replace classroom unit ventilators with new.	57,000
Takena Elementary	Replace the Multizone units with newer more energy efficient systems. Replace HVU and CEU units and the rooftop units with similar new units.	386,000
Takena Elementary	The stove and ovens in the kitchen should have a hood over them.	13,000
Takena Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	74,000
Takena Elementary	Commission the controls to verify proper operation.	39,000
Takena Elementary	Remove abandoned panels and control devices.	8,000
Takena Elementary	The original parking lot paving is failing.	100,000
Takena Elementary	Replacement of Plumbing Fixtures and Piping	20,000
Takena Elementary	Roofing.	164,000
Takena Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	100,000
		1,006,000



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Critical Facility Upgrades: Tangent Elementary School

School	Item	Total Project Cost (\$)
Tangent Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Tangent Elementary	Replace the older HV units with new more energy efficient units.	220,000
Tangent Elementary	There is no hood over the ovens or over the dishwasher.	13,000
Tangent Elementary	Commission the controls to verify proper operation.	32,000
Tangent Elementary	Remove unused control panels and devices.	6,000
Tangent Elementary	Replace the classroom unit ventilators with new units.	57,000
Tangent Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	71,000
Tangent Elementary	The pavement near the play shed is uneven and needs repair or replacement.	28,000
Tangent Elementary	Replacement of Plumbing Fixtures and Piping	16,000
Tangent Elementary	Replace galvanized pipe with new copper pipe.	35,000
Tangent Elementary	Restrooms rehabilitation and ADA improvements	140,000
Tangent Elementary	Roofing	30,000
Tangent Elementary	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	38,000
Tangent Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	83,000
		799,000



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Critical Facility Upgrades: Timber Ridge School

School	Item	Total Project Cost (\$)
Timber Ridge	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	83,000
		83,000



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Critical Facility Upgrades: West Albany High School

School	Item	Total Project Cost (\$)
West Albany High	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
West Albany High	Add 2 ea. New Mini-Boilers to existing Gym and Cafeteria system. Replace Gym Steam Units to Hot-water Units at 4 ea. Change Steam Coils to Hot Water Coils at Library, Cafeteria, Band and Choir at 6 ea. total. At Classrooms replace steam valves with digital controls 48 ea. Locations. Replace main steam zone valves in Boiler Room.	1,109,000
West Albany High	Replace units - counseling, matt room, and small theater.	28,000
West Albany High	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	275,000
West Albany High	Commission the controls to verify proper operation.	87,000
West Albany High	Remove abandoned panels and control devices.	16,000
West Albany High	Replace the tunnel exhaust fans with a new ventilation system.	51,000
West Albany High	Football field lighting wiring needs replaced	96,000
West Albany High	Concrete at grandstands is deteriorating and railings are damaged.	139,000
West Albany High	Improved Safety Through Additional Cameras & KeyScan Door Hardware System	184,000
West Albany High	Replace grandstand planking at baseball field	35,000
West Albany High	Replace last sewer pump and control panel	71,000
West Albany High	Replacement of Plumbing Fixtures and Piping	87,000
West Albany High	Restrooms rehabilitation and ADA improvements	281,000
West Albany High	Roofing.	1,227,000
West Albany High	Intercom System: Remove existing system and replace with new.	39,000
West Albany High	Seismic reinforce boiler chimney	29,000
West Albany High	Seismic reinforce gyms and cafeteria.	298,000
West Albany High	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	57,000
West Albany High	CORE Network, Infrastructure, Security Cameras, and VOIP upgrades	135,000
West Albany High	Replace Ceiling Systems in Gyms That Are Too Low	208,000
West Albany High	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	119,000
		4,601,000



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Critical Facility Upgrades: Waverly Elementary School

School	Item	Total Project Cost (\$)
Waverly Elementary	Old Cutler-Hammer load center (south corridor): Disconnect and remove load center. Intercept the existing three branch circuits and backfeed from nearest 2009-vintage panel.	16,000
Waverly Elementary	Replace fire alarm control panel with new system listed for operation with existing fire alarm devices and cabling.	30,000
Waverly Elementary	Add audible/visual notification appliance in north/south running corridor, providing notification coverage at this area.	8,000
Waverly Elementary	Replace overhead fire doors	15,000
Waverly Elementary	Replace the Multizone units with newer more energy efficient systems. Replace HVU and CEU units and the rooftop units with similar new units.	331,000
Waverly Elementary	Change Steam to 100% Hot Water Heating	79,000
Waverly Elementary	Remove all existing pneumatic controllers, actuators and thermostats if existing systems remain. Install all electronic devices. If new HVAC systems are installed, new digital controls to be provided.	79,000
Waverly Elementary	Commission the controls to verify proper operation.	39,000
Waverly Elementary	Remove abandoned panels and control devices.	8,000
Waverly Elementary	Replace classroom unit ventilators with new.	38,000
Waverly Elementary	Replace all Kitchen Makeup air unit and Gym unit with package rooftop units.	110,000
Waverly Elementary	The parking lot paving is failing.	84,000
Waverly Elementary	Replacement of Plumbing Fixtures and Piping	26,000
Waverly Elementary	Replace the domestic water piping with copper pipe and insulate.	43,000
Waverly Elementary	Roofing.	194,000
Waverly Elementary	Uninsulated window glazing.	607,000
Waverly Elementary	Includes Mech Piping Insulation, VAT removal+ new VCT Flooring.	77,000

1,784,000