

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Adams Elementary School
 1005 Adams St., Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1962
 Building Size: 44,725 capacity: x
 Site Size: 16.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

Addition

Cafeteria/Gym	6,500	sf	190.00	\$1,235,000	\$308,750	\$1,543,750		1
Stage	1,500	sf	190.00	\$285,000	\$71,250	\$356,250		1
Kitchen	400	sf	200.00	\$80,000	\$20,000	\$100,000		1
Toilet Rooms	400	sf	250.00	\$100,000	\$25,000	\$125,000		1
Storage/Circulation	700	sf	150.00	\$105,000	\$26,250	\$131,250		1
New Construction Subtotal:		9,500	190.00	\$1,805,000			\$2,256,250	

ARCHITECTURAL WORK

Environmental

Abate asbestos floor tile	30	ksf	1,500.00	\$45,000	\$11,250	\$56,250	In classrooms	1
Abate asbestos at mechanical	1	ls	5,000.00	\$5,000	\$1,250	\$6,250		1

Building Envelope

Replace doors, frames and hardware	26	ea	3,000.00	\$78,000	\$19,500	\$97,500		1
Replace glazing systems	2,100	sf	60.00	\$126,000	\$31,500	\$157,500		1

Interior Construction

Replace doors, frames and hardware	26	ea	2,000.00	\$52,000	\$13,000	\$65,000	classrooms only	1
Replace flooring	30,000	sf	4.25	\$127,500	\$31,875	\$159,375	Classrooms	1
Replace visual display boards	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	chalk to marker	1
Replace toilet partitions & accessories	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	metal to plastic	1
Replace casework	400	lf	425.00	\$170,000	\$42,500	\$212,500	original wood	1
Remodel toilet rooms	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	flooring and partitions	1
Modify lobby to create secure entrance	2,000	sf	100.00	\$200,000	\$50,000	\$250,000		1
Convert gym to media center	3,500	sf	75.00	\$262,500	\$65,625	\$328,125	includes "Learn Lab"	1
Renovate media center to breakout lab	1,000	sf	50.00	\$50,000	\$12,500	\$62,500		1
Renovations to connect to addition	9,500	sf	5.00	\$47,500	\$11,875	\$59,375		1
Architectural Work Subtotal:				\$1,221,500			\$1,526,875	

MECHANICAL WORK

H.V.A.C.

Replace Boiler/pumps (elementary)	2	ea	100,000.00	\$200,000	\$50,000	\$250,000		1
Replace Condensate Pump Units	2	ea	15,000.00	\$30,000	\$7,500	\$37,500		1
Replace indoor Air Handling Units	2	ea	30,000.00	\$60,000	\$15,000	\$75,000		1
Replace Office Heat/Vent units with new Roof Top	1	ea	20,000.00	\$20,000	\$5,000	\$25,000	5 Ton RTU	1
Replace Classroom Heating and Ventilation Units	5	ea	25,000.00	\$125,000	\$31,250	\$156,250		1
Replace Gym Heating & Ventilation unit	1	ea	40,000.00	\$40,000	\$10,000	\$50,000		1
Add AC to Tech Closet	1	ea	10,000.00	\$10,000	\$2,500	\$12,500	MDF	1
Replace Steam Humidifiers	2	ea	8,000.00	\$16,000	\$4,000	\$20,000		1
Replace Cabinet Unit Heaters	6	ea	5,000.00	\$30,000	\$7,500	\$37,500		1
Replace Exhaust Fans	4	ea	4,000.00	\$16,000	\$4,000	\$20,000		1

Temperature Controls

Replace all pneumatic controls with Digital	44,745	SF	2.25	\$100,700	\$25,175	\$125,875		1
Mechanical Work Subtotal:				\$647,700			\$809,625	

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
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Lighting

Upgrade Site Lighting	1	LS	30,000.00	\$30,000	\$7,500	\$37,500		1
Upgrade Exterior building mounted Lighting	1	LS	14,000.00	\$14,000	\$3,500	\$17,500		1
Add Occupancy Sensors	1	LS	7,000.00	\$7,000	\$1,750	\$8,750		1
Upgrade Showcase Lighting	1	LS	1,500.00	\$1,500	\$375	\$1,875		1
Electrical Work Subtotal:				\$57,500			\$71,875	

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Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
Cabling Infrastructure									
	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Fiber backbone to IDFs for 10G	1	ea	2,500.00	\$2,500	\$625	\$3,125		1
	Additional voice/data structured cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Allowance for cabling to support series 2 needs	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		2
Network / Wireless / Phone									
	Replace network infr. - building core	1	ea	13,000.00	\$13,000	\$3,250	\$16,250		2
	Replace network infr. - edge switches	11	ea	4,200.00	\$46,200	\$11,550	\$57,750	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	2	ea	3,000.00	\$6,000	\$1,500	\$7,500		2
	Network infrastructure for Series 1 needs	1	ls	16,300.00	\$16,300	\$4,075	\$20,375		1
	Replace wireless infrastructure	34	ea	950.00	\$32,300	\$8,075	\$40,375		2
	Replace phone system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2
Clock System									
	Replace clock system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Security									
	Video surveillance	1	ls	18,000.00	\$18,000	\$4,500	\$22,500		1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Install district-wide PA system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Technology Infrastructure Subtotal:					\$233,800		\$292,250		
Remodeling Subtotal:					\$2,160,500				

SITE WORK

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
Site Infrastructure									
	Demo modular building & restoration	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	(2) 1000 SF modular buildings and 160'x5'	1
	Improve site furnishings	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	bike racks, flag pole, fencing	1
	Improve site grading / landscaping	1	allo	25,000.00	\$25,000	\$6,250	\$31,250	lower catch basin at east hard surface play	1
	Site Work for Addition	9,500	sf	8.00	\$76,000	\$19,000	\$95,000	utilities, paving, restoration	1
Site Paving									
	Replace site concrete	1	allo	25,000.00	\$25,000	\$6,250	\$31,250	Remove metal grates in front of exterior dc	1
	Repave parking and drives	7	ksf	2,500.00	\$17,500	\$4,375	\$21,875	Replace paved play area	1
Playfields (playground/athletics)									
	Replace asphalt play area	4	ksf	2,500.00	\$10,000	\$2,500	\$12,500		2
	Improve playground / playfield area	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		2
Site Work Subtotal:					\$228,500		\$285,625		

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
Computers and Mobile Devices									
	Replace teacher/staff laptops	27	ea	1,000.00	\$27,000	\$6,750	\$33,750		1
	Mobile devices for teachers/staff	27	ea	650.00	\$17,550	\$4,388	\$21,938		1
	Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
	Mobile devices for students (does not include cart)	473	ea	650.00	\$307,450	\$76,863	\$384,313	Based on 2013 enrollment +5%	1
	Technology equipment - Series 2	1	ls	386,500.00	\$386,500	\$38,650	\$425,150		2
	Technology equipment - Series 3	1	ls	325,000.00	\$325,000	\$32,500	\$357,500		3
Classroom Technologies									
	Install classroom/lab projectors	24	ea	1,800.00	\$43,200	\$10,800	\$54,000		1
	Install sound field amplification	24	ea	1,250.00	\$30,000	\$7,500	\$37,500		1
	Document camera	5	ea	550.00	\$2,750	\$688	\$3,438		1
	Refresh classroom projector	1	ls	43,200.00	\$43,200	\$10,800	\$54,000		3
Technology Equipment subtotal:					\$1,217,150		\$1,414,713		

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 Building Size: 44,725 capacity: x
 Site Size: 16.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	3	ea	600.00	\$1,800	\$450	\$2,250		1
Replace BW MFP printers	2	ea	7,500.00	\$15,000	\$3,750	\$18,750		1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500		1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750		1
Conference room / IEP displays	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500		1
Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

Furniture & Furnishings

Replacement furniture & furnishings	44,725	ea	1.75	\$78,300	\$9,396	\$87,696	classroom desks and chairs	2
Furniture for Addition	9,500	sf	3.00	\$28,500	\$3,420	\$31,920	cafeteria tables and gym equipment	1

F, F, & E Subtotal:				\$177,900		\$208,491		
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TOTAL DIRECT COSTS:	\$5,589,050		\$6,865,704
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Project Contingency:	\$558,905
General Conditions:	\$97,551
CM Fee / Reimbursables:	\$310,099
A/E Fee / Reimbursables:	\$310,099

TOTAL PROJECT COSTS:	\$6,865,704
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\$6,865,704 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

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MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Chestnut Hill Elementary School
 3900 Chestnut Hill St., Midland MI, 48642
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1957
 Building Size: 41,407 capacity: x
 Site Size: 11.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
NEW CONSTRUCTION									
<u>Addition</u>									
	Cafeteria/Gym	6,500	sf	190.00	\$1,235,000	\$308,750	\$1,543,750		1
	Stage	1,500	sf	190.00	\$285,000	\$71,250	\$356,250		1
	Kitchen	400	sf	200.00	\$80,000	\$20,000	\$100,000		1
	Toilet Rooms	400	sf	250.00	\$100,000	\$25,000	\$125,000		1
	Storage/Circulation	700	sf	150.00	\$105,000	\$26,250	\$131,250		1
New Construction Subtotal:		9,500		190.00	\$1,805,000			\$2,256,250	

ARCHITECTURAL WORK									
<u>Environmental</u>									
	Abate asbestos floor tile	10	ksf	1,500.00	\$15,000	\$3,750	\$18,750	classrooms 15-22, art room	1
	Abate asbestos at mechanical	1	ls	5,000.00	\$5,000	\$1,250	\$6,250		1
<u>Building Envelope</u>									
	Replace roof system	41,407	sf	9.00	\$372,700	\$93,175	\$465,875	Roof ponding above eastern classroom wii	1
	Demo chimney	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
	Add masonry joints in brick	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
	Replace doors, frames and hardware	70	ea	3,000.00	\$210,000	\$52,500	\$262,500		1
	Replace glazing systems	4,000	sf	60.00	\$240,000	\$60,000	\$300,000		1
	Add/adjust downspouts and gutters	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	No downspouts anywhere on building	1
<u>Demolition</u>									
	Demo pedestals	10	ea	1,000.00	\$10,000	\$2,500	\$12,500	Masonry pedestals in media center	1
<u>Interior Construction</u>									
	Replace doors, frames and hardware	27	ea	2,000.00	\$54,000	\$13,500	\$67,500	classrooms only	1
	Install sound deadening panels	1	allo	25,000.00	\$25,000	\$6,250	\$31,250	Sound issues/echoes reported in gym/mec	1
	Replace flooring	30,000	sf	4.25	\$127,500	\$31,875	\$159,375	Carpet stains in classrooms	1
	Replace visual display boards	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	chalk to marker	1
	Replace toilet partitions & accessories	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	metal to plastic	1
	Replace casework	400	lf	425.00	\$170,000	\$42,500	\$212,500	original wood	1
	Remodel toilet rooms	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	"shared" kindergarten restrooms	1
	Modify lobby to create secure entrance	1,000	sf	100.00	\$100,000	\$25,000	\$125,000		1
	Convert gym to media center	3,000	sf	75.00	\$225,000	\$56,250	\$281,250	includes "Learn Lab"	1
	Renovate media center to breakout lab	1,700	sf	50.00	\$85,000	\$21,250	\$106,250		1
	Renovations to connect to addition	9,500	sf	5.00	\$47,500	\$11,875	\$59,375		1
Architectural Work Subtotal:					\$1,784,700			\$2,230,875	

MECHANICAL WORK									
<u>Plumbing</u>									
	Replace galvanized domestic water piping	600	LF	40.00	\$24,000	\$6,000	\$30,000		1
	Replace lavatory Faucets	16	ea	250.00	\$4,000	\$1,000	\$5,000		1
	Replace DF with EWC w/bottle fill	1	ea	5,000.00	\$5,000	\$1,250	\$6,250		1
<u>H.V.A.C.</u>									
	Replace Unit Ventilators with new vertical Unit Vents	12	ea	16,000.00	\$192,000	\$48,000	\$240,000		1
	Replace indoor Air Handling Units	2	ea	30,000.00	\$60,000	\$15,000	\$75,000		1
	Replace Office Heating & Venting Units	1	ea	20,000.00	\$20,000	\$5,000	\$25,000	5 Ton RTU	1
	Replace Classroom Heating & Venting Units	3	ea	25,000.00	\$75,000	\$18,750	\$93,750		1
	Replace Gym Heating & Venting unit	1	ea	40,000.00	\$40,000	\$10,000	\$50,000		1
	Add AC to Tech Closet	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	MDF and IDF	1
	Replace Steam Humidifiers	2	ea	8,000.00	\$16,000	\$4,000	\$20,000		1
	Replace Cabinet Unit Heaters	6	ea	5,000.00	\$30,000	\$7,500	\$37,500		1
	Replace Exhaust Fans	3	ea	4,000.00	\$12,000	\$3,000	\$15,000		1
	Replace Relief/Intake Hood	7	ea	2,500.00	\$17,500	\$4,375	\$21,875		1
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	41,407	SF	2.25	\$93,200	\$23,300	\$116,500		1
Mechanical Work Subtotal:					\$608,700			\$760,875	

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Building Project Work List

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 Building Size: 41,407 capacity: x
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ELECTRICAL WORK

<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
<u>Lighting</u>									
	Media Center Dome Lighting	1	ls	10,000.00	\$10,000	\$2,500	\$12,500		1
	Upgrade Gym Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500	Lighting updated in 2004	1
	Upgrade Site Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500	Lighting updated in 2004	1
	Upgrade Exterior building mounted Lighting	1	ls	9,800.00	\$9,800	\$2,450	\$12,250	Lighting updated in 2004	1
	Add Exterior Emergency Egress Lighting	1	ls	12,000.00	\$12,000	\$3,000	\$15,000		1
	Add Occupancy Sensors	1	LS	7,000.00	\$7,000	\$1,750	\$8,750		1
Electrical Work Subtotal:					\$103,800		\$129,750		

TECHNOLOGY INFRASTRUCTURE

<u>Cabling Infrastructure</u>									
	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Fiber backbone to IDFs for 10G	1	ea	2,500.00	\$2,500	\$625	\$3,125		1
	Additional voice/data structured cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Allowance for cabling to support series 2 needs	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		2
<u>Network / Wireless / Phone</u>									
	Replace network infr. - building core	1	ea	13,000.00	\$13,000	\$3,250	\$16,250		2
	Replace network infr. - edge switches	11	ea	4,200.00	\$46,200	\$11,550	\$57,750	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	2	ea	3,000.00	\$6,000	\$1,500	\$7,500		2
	Network infrastructure for Series 1 needs	1	ls	16,300.00	\$16,300	\$4,075	\$20,375		1
	Replace wireless infrastructure	33	ea	950.00	\$31,350	\$7,838	\$39,188		2
	Replace phone system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2
<u>Clock System</u>									
	Replace clock system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
<u>Security</u>									
	Video surveillance	1	ls	18,000.00	\$18,000	\$4,500	\$22,500		1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Install district-wide PA system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Technology Infrastructure Subtotal:					\$232,850		\$291,063		

Remodeling Subtotal:	\$2,730,050
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SITE WORK

<u>Site Infrastructure</u>									
	Demo modular building & restoration	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		1
	Improve site furnishings	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	bike racks, flag pole, fencing	1
	Improve site grading / landscaping	1	allo	75,000.00	\$75,000	\$18,750	\$93,750	Overgrown fence line, french drain around	1
	Site Work for Addition	9,500	sf	8.00	\$76,000	\$19,000	\$95,000	utilities, paving, restoration	1
<u>Site Paving</u>									
	Replace site concrete	1	allo	25,000.00	\$25,000	\$6,250	\$31,250	Extend parking lot and sidewalk to east, re	1
	Repave parking and drives	26	ksf	2,500.00	\$65,000	\$16,250	\$81,250	South parking lot repairs	1
	Install new parking areas (w/ storm system)	20	ksf	7,500.00	\$150,000	\$37,500	\$187,500	Extend south parking lot to east	1
<u>Playfields (playground/athletics)</u>									
	Improve playground / playfield area	1	ls	40,000.00	\$40,000	\$10,000	\$50,000	New play area needed	2
Site Work Subtotal:					\$466,000		\$582,500		

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INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	29	ea	1,000.00	\$29,000	\$7,250	\$36,250		1
Mobile devices for teachers/staff	29	ea	650.00	\$18,850	\$4,713	\$23,563		1
Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
Mobile devices for students (does not include cart)	483	ea	650.00	\$313,950	\$78,488	\$392,438	Based on 2013 enrollment +5%	1
Technology equipment - Series 2	1	ls	396,300.00	\$396,300	\$39,630	\$435,930		2
Technology equipment - Series 3	1	ls	332,800.00	\$332,800	\$33,280	\$366,080		3

Classroom Technologies

Install classroom/lab projectors	23	ea	1,800.00	\$41,400	\$10,350	\$51,750		1
Install sound field amplification	23	ea	1,250.00	\$28,750	\$7,188	\$35,938		1
Document camera	5	ea	550.00	\$2,750	\$688	\$3,438		1
Refresh classroom projector	1	ls	41,400.00	\$41,400	\$10,350	\$51,750		3

Technology Equipment Subtotal:				\$1,239,700		\$1,440,260	
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	1	ea	600.00	\$600	\$150	\$750		1
Replace BW MFP printers	2	ea	7,500.00	\$15,000	\$3,750	\$18,750		1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500		1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750		1
Conference room / IEP displays	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500		1
Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

Furniture & Furnishings

Replacement furniture & furnishings	41,407	sf	1.75	\$72,500	\$8,700	\$81,200	classroom desks and chairs	2
Furniture for Addition	9,500	sf	3.00	\$28,500	\$3,420	\$31,920	cafeteria tables and gym equipment	1

F, F, & E Subtotal:				\$170,900		\$200,495	
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TOTAL DIRECT COSTS:	\$6,411,650	\$7,892,068
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Project Contingency: \$641,165
 General Conditions: \$113,651
 CM Fee / Reimbursables: \$362,801
 A/E Fee / Reimbursables: \$362,801

TOTAL PROJECT COSTS:	\$7,892,068
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\$7,892,068 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Plymouth Elementary School
 1105 E. Sugnet Rd., Midland, MI 48642

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1952
 Building Size: 40,812 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

Addition

Cafeteria/Gym	6,500	sf	190.00	\$1,235,000	\$308,750	\$1,543,750	1
Stage	1,500	sf	190.00	\$285,000	\$71,250	\$356,250	1
Kitchen	400	sf	200.00	\$80,000	\$20,000	\$100,000	1
Toilet Rooms	400	sf	250.00	\$100,000	\$25,000	\$125,000	1
Storage/Circulation	700	sf	150.00	\$105,000	\$26,250	\$131,250	1

New Construction Subtotal: 9,500 190.00 \$1,805,000 \$2,256,250

ARCHITECTURAL WORK

Environmental

Abate asbestos floor tile	26	ksf	1,500.00	\$39,000	\$9,750	\$48,750	1
Abate asbestos at mechanical	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	1

Building Envelope

Add masonry joints in brick	1,600	sf	10.00	\$16,000	\$4,000	\$20,000	bottom 2' of front and back walls	1
Replace doors, frames and hardware	70	ea	3,000.00	\$210,000	\$52,500	\$262,500	1	
Replace glazing systems	4,800	sf	60.00	\$288,000	\$72,000	\$360,000	1	

Interior Construction

Replace doors, frames and hardware	26	ea	2,000.00	\$52,000	\$13,000	\$65,000	classrooms only	1
Replace flooring	35,000	sf	4.25	\$148,800	\$37,200	\$186,000	1	
Replace visual display boards	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	chalk to marker	1
Replace toilet partitions & accessories	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	metal to plastic	1
Replace casework	400	lf	425.00	\$170,000	\$42,500	\$212,500	original wood	1
Remodel toilet rooms	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	"shared" kindergarten restrooms, other res	1
Renovate media center to secure main office	1,500	sf	100.00	\$150,000	\$37,500	\$187,500	1	
Modify lobby to create secure entrance	500	sf	100.00	\$50,000	\$12,500	\$62,500	1	
Convert gym to media center	2,000	sf	75.00	\$150,000	\$37,500	\$187,500	includes "Learn Lab"	1
Renovations to connect to addition	9,500	allo	5.00	\$47,500	\$11,875	\$59,375	1	

Architectural Work Subtotal: \$1,384,300 \$1,730,375

MECHANICAL WORK

H.V.A.C.

Replace rusted boiler stacks	2	ea	5,000.00	\$10,000	\$2,500	\$12,500	1	
Replace Unit Ventilators with new vertical Unit Vents	21	ea	16,000.00	\$336,000	\$84,000	\$420,000	1	
Replace Classroom Heating & Venting Units	2	ea	25,000.00	\$50,000	\$12,500	\$62,500	1	
Replace Gym Heating & Venting	1	ea	40,000.00	\$40,000	\$10,000	\$50,000	1	
Add AC to Tech Closet	1	ea	10,000.00	\$10,000	\$2,500	\$12,500	MDF	1
Replace Cabinet Unit Heaters	6	ea	5,000.00	\$30,000	\$7,500	\$37,500	1	
Replace Exhaust Fans	4	ea	4,000.00	\$16,000	\$4,000	\$20,000	1	

Temperature Controls

Replace all pneumatic controls with Digital	40,812	SF	2.25	\$91,800	\$22,950	\$114,750	1
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Mechanical Work Subtotal: \$583,800 \$729,750

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250	1
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Lighting

Upgrade Site Lighting	1	ls	49,000.00	\$49,000	\$12,250	\$61,250	1
Upgrade Exterior building mounted Lighting	1	ls	24,000.00	\$24,000	\$6,000	\$30,000	1
Add Occupancy Sensors	1	LS	7,000.00	\$7,000	\$1,750	\$8,750	1

Electrical Work Subtotal: \$85,000 \$106,250

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Plymouth Elementary School
 1105 E. Sugnet Rd., Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1952
 Building Size: 40,812 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Fiber backbone to IDFs for 10G	1	ea	2,500.00	\$2,500	\$625	\$3,125		1
	Additional voice/data structured cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Allowance for cabling to support series 2 needs	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		2
	Replace fiber to MS for dedicated line to Admin	1	ea	18,000.00	\$18,000	\$4,500	\$22,500		1

Network / Wireless / Phone

	Replace network infr. - building core	1	ea	13,000.00	\$13,000	\$3,250	\$16,250		2
	Replace network infr. - edge switches	11	ea	4,200.00	\$46,200	\$11,550	\$57,750	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	2	ea	3,000.00	\$6,000	\$1,500	\$7,500		2
	Network infrastructure for Series 1 needs	1	ls	16,300.00	\$16,300	\$4,075	\$20,375		1
	Replace wireless infrastructure	37	ea	950.00	\$35,150	\$8,788	\$43,938		2
	Replace phone system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2

Clock System

	Replace clock system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
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Security

	Video surveillance	1	ls	18,000.00	\$18,000	\$4,500	\$22,500		1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Install district-wide PA system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1

Technology Infrastructure Subtotal: **\$254,650** **\$318,313**

Remodeling Subtotal: **\$2,307,750**

SITE WORK

Site Infrastructure

	Improve site furnishings	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	bike racks, flag pole, fencing	1
	Improve site grading / landscaping	1	allo	30,000.00	\$30,000	\$7,500	\$37,500	Poor drainage in play area, improve court	1
	Site Work for Addition	9,500	sf	8.00	\$76,000	\$19,000	\$95,000	utilities, paving, restoration	1

Site Paving

	Replace site concrete	1	allo	50,000.00	\$50,000	\$12,500	\$62,500	Remove curbs at bus loop, remove steps	1
	Repace parking and drives	45	ksf	2,500.00	\$112,500	\$28,125	\$140,625	Extend and reconfigure P.L.	1

Playfields (playground/athletics)

	Improve playground / playfield area	1	ls	40,000.00	\$40,000	\$10,000	\$50,000	Outdated play equipment, relocate building	2
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Site Work Subtotal: **\$323,500** **\$404,375**

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

	Replace teacher/staff laptops	34	ea	1,000.00	\$34,000	\$8,500	\$42,500		1
	Mobile devices for teachers/staff	34	ea	650.00	\$22,100	\$5,525	\$27,625		1
	Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
	Mobile devices for students (does not include cart)	504	ea	650.00	\$327,600	\$81,900	\$409,500	Based on 2013 enrollment +5%	1
	Technology equipment - Series 2	1	ls	418,200.00	\$418,200	\$41,820	\$460,020		2
	Technology equipment - Series 3	1	ls	349,700.00	\$349,700	\$34,970	\$384,670		3

Classroom Technologies

	Install classroom/lab projectors	28	ea	1,800.00	\$50,400	\$12,600	\$63,000		1
	Document camera	5	ea	550.00	\$2,750	\$688	\$3,438		1
	Refresh classroom projector	1	ls	50,400.00	\$50,400	\$12,600	\$63,000		3

Technology Equipment subtotal: **\$1,324,650** **\$1,540,628**

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Plymouth Elementary School
 1105 E. Sugnet Rd., Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1952
 Building Size: 40,812 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	1	ea	600.00	\$600	\$150	\$750		1
Replace color printers	1	ls	1,350.00	\$1,350	\$338	\$1,688		1
Replace BW MFP printers	3	ea	7,500.00	\$22,500	\$5,625	\$28,125		1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500		1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750		1
Conference room / IEP displays	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
Replace gym sound system	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

Furniture & Furnishings

Replacement furniture & furnishings	40,812	ea	1.75	\$71,400	\$8,568	\$79,968	classroom desks and chairs	2
Furniture for Addition	9,500	sf	3.00	\$28,500	\$3,420	\$31,920	cafeteria tables and gym equipment	1

F, F, & E Subtotal:					\$176,650		\$207,826	
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TOTAL DIRECT COSTS:				\$5,937,550			\$7,293,766	
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Project Contingency: \$593,755
 General Conditions: \$103,393
 CM Fee / Reimbursables: \$329,534
 A/E Fee / Reimbursables: \$329,534

TOTAL PROJECT COSTS:	\$7,293,766
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\$7,293,766 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Woodcrest Elementary School
 5500 Drake St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1969
 Building Size: 38,147 capacity: x
 Site Size: 16,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

Addition

Cafeteria/Gym	6,500	sf	190.00	\$1,235,000	\$308,750	\$1,543,750	1
Stage	1,500	sf	190.00	\$285,000	\$71,250	\$356,250	1
Kitchen	400	sf	200.00	\$80,000	\$20,000	\$100,000	1
Toilet Rooms	400	sf	250.00	\$100,000	\$25,000	\$125,000	1
Storage/Circulation	700	sf	150.00	\$105,000	\$26,250	\$131,250	1

New Construction Subtotal: 9,500 190.00 \$1,805,000 \$2,256,250

ARCHITECTURAL WORK

Environmental

Abate asbestos at mechanical	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	1
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Building Envelope

Replace roof system	38,147	sf	9.00	\$343,300	\$85,825	\$429,125	1
Add masonry joints in brick	2,000	sf	10.00	\$20,000	\$5,000	\$25,000	Bottom 2' of building as needed 1
Replace doors, frames and hardware	59	ea	3,000.00	\$177,000	\$44,250	\$221,250	1
Replace glazing systems	1,400	sf	60.00	\$84,000	\$21,000	\$105,000	1

Interior Construction

Replace doors, frames and hardware	27	ea	2,000.00	\$54,000	\$13,500	\$67,500	classrooms only 1
Replace flooring	38,147	sf	4.25	\$162,100	\$40,525	\$202,625	1
Replace visual display boards	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	chalk to marker 1
Replace toilet partitions & accessories	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	metal to plastic 1
Replace casework	400	lf	425.00	\$170,000	\$42,500	\$212,500	original wood 1
Remodel toilet rooms	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	flooring and partitions 1
Modify lobby to create secure entrance	1,000	sf	100.00	\$100,000	\$25,000	\$125,000	1
Convert multi-purpose space to media center	2,700	sf	75.00	\$202,500	\$50,625	\$253,125	1
Renovate media center to breakout lab	3,600	sf	50.00	\$180,000	\$45,000	\$225,000	1
Renovations to connect to addition	9,500	sf	5.00	\$47,500	\$11,875	\$59,375	1

Architectural Work Subtotal: \$1,603,400 \$2,004,250

MECHANICAL WORK

H.V.A.C.

Replace Boiler/pumps (elementary)	2	ea	100,000.00	\$200,000	\$50,000	\$250,000	1
Replace Unit Ventilators with new vertical Unit Vents	28	ea	16,000.00	\$448,000	\$112,000	\$560,000	1
Replace indoor Air Handling Units	4	ea	30,000.00	\$120,000	\$30,000	\$150,000	1
Replace Steam Humidifiers	2	ea	8,000.00	\$16,000	\$4,000	\$20,000	1
Replace Cabinet Unit Heaters	4	ea	5,000.00	\$20,000	\$5,000	\$25,000	1
Replace Exhaust Fans	6	ea	4,000.00	\$24,000	\$6,000	\$30,000	1

Temperature Controls

Replace all pneumatic controls with Digital	38,147	SF	2.25	\$85,800	\$21,450	\$107,250	1
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Mechanical Work Subtotal: \$913,800 \$1,142,250

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250	1
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Lighting

Upgrade Gym Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500	1
Upgrade Site Lighting	1	ls	49,000.00	\$49,000	\$12,250	\$61,250	1
Upgrade Exterior building mounted Lighting	1	ls	20,000.00	\$20,000	\$5,000	\$25,000	1
Add Exterior Emergency Egress Lighting	1	ls	15,000.00	\$15,000	\$3,750	\$18,750	1
Add Occupancy Sensors	1	ls	7,000.00	\$7,000	\$1,750	\$8,750	1
Upgrade Fire Alarm System	38,147	SF	2.70	\$103,000	\$25,750	\$128,750	1
Add Exit and EM Lights in Corridors	1	LS	8,000.00	\$8,000	\$2,000	\$10,000	1
Upgrade Lighting Through-out Building to T8	38,147	SF	6.00	\$228,900	\$57,225	\$286,125	1

Electrical Work Subtotal: \$465,900 \$582,375

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Woodcrest Elementary School
 5500 Drake St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1969
 Building Size: 38,147 capacity: x
 Site Size: 16,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

<u>Cabling Infrastructure</u>									
	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Additional voice/data structured cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Allowance for cabling to support series 2 needs	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		2
<u>Network / Wireless / Phone</u>									
	Replace network infr. - building core	1	ea	13,000.00	\$13,000	\$3,250	\$16,250		2
	Replace network infr. - edge switches	8	ea	4,200.00	\$33,600	\$8,400	\$42,000	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	1	ea	3,000.00	\$3,000	\$750	\$3,750		2
	Network infrastructure for Series 1 needs	1	ls	12,400.00	\$12,400	\$3,100	\$15,500		1
	Replace wireless infrastructure	32	ea	950.00	\$30,400	\$7,600	\$38,000		2
	Replace phone system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2
<u>Clock System</u>									
	Replace clock system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
<u>Security</u>									
	Video surveillance	1	ls	18,000.00	\$18,000	\$4,500	\$22,500		1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Install district-wide PA system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Technology Infrastructure Subtotal:					\$209,900			\$262,375	
Remodeling Subtotal:					\$3,193,000				

SITE WORK

<u>Site Infrastructure</u>									
	Improve site furnishings	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	bike racks, flag pole, fencing	1
	Improve site grading / landscaping	1	allo	75,000.00	\$75,000	\$18,750	\$93,750	groundwater issues	1
	Site Work for Addition	9,500	sf	8.00	\$76,000	\$19,000	\$95,000	utilities, paving, restoration	1
<u>Site Paving</u>									
	Replace site concrete	1	allo	12,000.00	\$12,000	\$3,000	\$15,000	Install sidewalk connecting to neighborhood	1
	Repave parking and drives	33	ksf	2,500.00	\$82,500	\$20,625	\$103,125		1
	Install new parking areas (w/ storm system)	14	ksf	7,500.00	\$105,000	\$26,250	\$131,250	Extend asphalt parking and create loop at	1
<u>Playfields (playground/athletics)</u>									
	Improve playground / playfield area	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		2
Site Work Subtotal:					\$405,500			\$506,875	

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

<u>Computers and Mobile Devices</u>									
	Replace teacher/staff laptops	35	ea	1,000.00	\$35,000	\$8,750	\$43,750		1
	Mobile devices for teachers/staff	35	ea	650.00	\$22,750	\$5,688	\$28,438		1
	Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
	Mobile devices for students (does not include cart)	557	ea	650.00	\$362,050	\$90,513	\$452,563	Based on 2013 enrollment +5%	1
	Technology equipment - Series 2	1	ls	454,300.00	\$454,300	\$45,430	\$499,730		2
	Technology equipment - Series 3	1	ls	384,800.00	\$384,800	\$38,480	\$423,280		3
<u>Classroom Technologies</u>									
	Install classroom/lab projectors	31	ea	1,800.00	\$55,800	\$13,950	\$69,750		1
	Install sound field amplification	31	ea	1,250.00	\$38,750	\$9,688	\$48,438		1
	Document camera	5	ea	550.00	\$2,750	\$688	\$3,438		1
	Refresh classroom projector	1	ls	55,800.00	\$55,800	\$13,950	\$69,750		3
Technology Equipment subtotal:					\$1,446,500			\$1,682,260	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Woodcrest Elementary School
 5500 Drake St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1969
 Building Size: 38,147 capacity: x
 Site Size: 16,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	1	ea	600.00	\$600	\$150	\$750		1
Replace BW MFP printers	2	ea	7,500.00	\$15,000	\$3,750	\$18,750		1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500		1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750		1
Conference room / IEP displays	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
Replace gym sound system	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

Furniture & Furnishings

Replacement furniture & furnishings	38,147	ea	1.75	\$66,800	\$8,016	\$74,816	classroom desks and chairs	2
Furniture for Addition	9,500	sf	3.00	\$28,500	\$3,420	\$31,920	cafeteria tables and gym equipment	1

F, F, & E Subtotal:	\$173,200	\$204,111
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TOTAL DIRECT COSTS:	\$7,023,200	\$8,640,746
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Project Contingency: \$702,320
 General Conditions: \$123,682
 CM Fee / Reimbursables: \$395,772
 A/E Fee / Reimbursables: \$395,772

TOTAL PROJECT COSTS:	\$8,640,746	\$8,640,746 check #
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Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Siebert Elementary School
 5700 Siebert St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1958
 Building Size: 48,489 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

Addition

Cafeteria/Gym	6,500	sf	190.00	\$1,235,000	\$308,750	\$1,543,750	1
Stage	1,500	sf	190.00	\$285,000	\$71,250	\$356,250	1
Kitchen	400	sf	200.00	\$80,000	\$20,000	\$100,000	1
Toilet Rooms	400	sf	250.00	\$100,000	\$25,000	\$125,000	1
Storage/Circulation	700	sf	150.00	\$105,000	\$26,250	\$131,250	1

New Construction Subtotal: 9,500 190.00 \$1,805,000 \$2,256,250

ARCHITECTURAL WORK

Environmental

Abate asbestos floor tile	32	ksf	1,500.00	\$48,000	\$12,000	\$60,000	1
Abate asbestos at mechanical	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	1

Building Envelope

Replace doors, frames and hardware	26	ea	3,000.00	\$78,000	\$19,500	\$97,500	1
Replace glazing systems	6,200	sf	60.00	\$372,000	\$93,000	\$465,000	1
Add downspouts and gutters	1	allo	2,500.00	\$2,500	\$625	\$3,125	North storage building needs gutter system 1

Interior Construction

Replace doors, frames and hardware	26	ea	2,000.00	\$52,000	\$13,000	\$65,000	classrooms only 1
Replace flooring	35,000	sf	4.25	\$148,800	\$37,200	\$186,000	1
Replace visual display boards	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	chalk to marker 1
Replace toilet partitions & accessories	10	ea	2,500.00	\$25,000	\$6,250	\$31,250	metal to plastic 1
Replace casework	400	lf	425.00	\$170,000	\$42,500	\$212,500	original wood 1
Remodel toilet rooms	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	flooring and partitions 1
Modify lobby to create secure entrance	1,000	sf	100.00	\$100,000	\$25,000	\$125,000	1
Convert multi-purpose space to media center	3,000	sf	75.00	\$225,000	\$56,250	\$281,250	1
Renovate media center to breakout lab	1,000	sf	50.00	\$50,000	\$12,500	\$62,500	1
Renovations to connect to addition	9,500	sf	5.00	\$47,500	\$11,875	\$59,375	1

Architectural Work Subtotal: \$1,356,800 \$1,696,000

MECHANICAL WORK

H.V.A.C.

Replace Boiler/pumps (elementary)	2	ea	100,000.00	\$200,000	\$50,000	\$250,000	1
Replace Unit Ventilators with new vertical Unit Vents	16	ea	16,000.00	\$256,000	\$64,000	\$320,000	1
Replace Office Heating & Venting Units	1	ea	20,000.00	\$20,000	\$5,000	\$25,000	5 Ton RTU 1
Replace Classroom Heating & Venting	3	ea	25,000.00	\$75,000	\$18,750	\$93,750	1
Replace Gym Heatgin & Venting Units	1	ea	40,000.00	\$40,000	\$10,000	\$50,000	1
Add AC to Tech Closet	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	MDF (if relocate) and IDF 1
Replace Cabinet Unit Heaters	6	ea	5,000.00	\$30,000	\$7,500	\$37,500	1
Replace Exhaust Fans	4	ea	4,000.00	\$16,000	\$4,000	\$20,000	1

Temperature Controls

Replace all pneumatic controls with Digital	48,489	SF	2.25	\$109,100	\$27,275	\$136,375	1
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Mechanical Work Subtotal: \$766,100 \$957,625

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250	1
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Lighting

Upgrade Site Lighting	1	ls	46,000.00	\$46,000	\$11,500	\$57,500	1
Upgrade Exterior building mounted Lighting	1	ls	14,000.00	\$14,000	\$3,500	\$17,500	1
Add Occupancy Sensors	1	LS	7,000.00	\$7,000	\$1,750	\$8,750	1

Electrical Work Subtotal: \$72,000 \$90,000

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Siebert Elementary School
 5700 Siebert St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1958
 Building Size: 48,489 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Replace telecommunication rooms / relocate data center	1	ea	2,000.00	\$2,000	\$500	\$2,500		1
	Fiber backbone to IDFs for 10G	1	ea	2,500.00	\$2,500	\$625	\$3,125		1
	Additional voice/data structured cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Allowance for cabling to support series 2 needs	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		2
	Replace fiber to MS for dedicated line to Admin	1	ea	18,000.00	\$18,000	\$4,500	\$22,500		1

Network / Wireless / Phone

	Replace network infr. - building core	1	ea	13,000.00	\$13,000	\$3,250	\$16,250		2
	Replace network infr. - edge switches	12	ea	4,200.00	\$50,400	\$12,600	\$63,000	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	2	ea	3,000.00	\$6,000	\$1,500	\$7,500		2
	Network infrastructure for Series 1 needs	1	ls	17,350.00	\$17,350	\$4,338	\$21,688		1
	Replace wireless infrastructure	41	ea	950.00	\$38,950	\$9,738	\$48,688		2
	Replace phone system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2

Clock System

	Replace clock system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
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Security

	Video surveillance	1	ls	18,000.00	\$18,000	\$4,500	\$22,500		1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Install district-wide PA system	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1

Technology Infrastructure Subtotal:

\$265,700

\$332,125

Remodeling Subtotal:

\$2,460,600

SITE WORK

Site Infrastructure

	Improve site furnishings	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	bike racks, flag pole, fencing	1
	Improve site grading / landscaping	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	Clean storm system structures, revise syst	1
	Site Work for Addition	9,500	sf	8.00	\$76,000	\$19,000	\$95,000	utilities, paving, restoration	1

Site Paving

	Replace site concrete	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	New concrete needed in play area, address	1
	Repave parking and drives	53	ksf	2,500.00	\$132,500	\$33,125	\$165,625	Replace asphalt in east lot, north and	1
	Install new parking areas (w/ storm system)	16	ksf	7,500.00	\$120,000	\$30,000	\$150,000	Reconfigure east parking lot and install ne	1

Playfields (playground/athletics)

	Replace asphalt play area	10	ksf	2,500.00	\$25,000	\$6,250	\$31,250		2
	Improve playground / playfield area	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		2

Site Work Subtotal:

\$443,500

\$554,375

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

	Replace teacher/staff laptops	42	ea	1,000.00	\$42,000	\$10,500	\$52,500		1
	Mobile devices for teachers/staff	42	ea	650.00	\$27,300	\$6,825	\$34,125		1
	Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
	Mobile devices for students (does not include cart)	630	ea	650.00	\$409,500	\$102,375	\$511,875	Based on 2013 enrollment +5%	1
	Technology equipment - Series 2	1	ls	513,300.00	\$513,300	\$51,330	\$564,630		2
	Technology equipment - Series 3	1	ls	436,800.00	\$436,800	\$43,680	\$480,480		3

Classroom Technologies

	Install classroom/lab projectors	34	ea	1,800.00	\$61,200	\$15,300	\$76,500		1
	Install sound field amplification	34	ea	1,250.00	\$42,500	\$10,625	\$53,125		1
	Document camera	5	ea	550.00	\$2,750	\$688	\$3,438		1
	Refresh classroom projector	1	ls	61,200.00	\$61,200	\$15,300	\$76,500		3

Technology Equipment subtotal:

\$1,631,050

\$1,896,298

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Siebert Elementary School
 5700 Siebert St., Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 6/30/2014
 Grades: K-5 enrollment: x
 Year Built: 1958
 Building Size: 48,489 capacity: x
 Site Size: 14,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	3	ea	600.00	\$1,800	\$450	\$2,250		1
Replace BW MFP printers	2	ea	7,500.00	\$15,000	\$3,750	\$18,750		1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500		1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750		1
Conference room / IEP displays	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500		1
Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

Furniture & Furnishings

Replacement furniture & furnishings	48,489	ea	1.75	\$84,900	\$10,188	\$95,088	classroom desks and chairs	2
Furniture for Addition	9,500	sf	3.00	\$28,500	\$3,420	\$31,920	cafeteria tables and gym equipment	1

F, F, & E Subtotal:				\$184,500			\$215,883	
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TOTAL DIRECT COSTS:	\$6,524,650					\$7,998,556	
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Project Contingency: \$652,465
 General Conditions: \$111,491
 CM Fee / Reimbursables: \$354,975
 A/E Fee / Reimbursables: \$354,975

TOTAL PROJECT COSTS:	\$7,998,556
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\$7,998,556 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Central School
 (Central Middle School Campus)
Building Project Work List

Date: 10/1/2014 site visit: N/A
 Grades: N/A enrollment: N/A
 Year Built: 2017
 Building Size: 85,000 capacity: N/A
 Site Size: x

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

Addition

K-2 classrooms	18,000	sf	192.00	\$3,456,000	\$864,000	\$4,320,000	1
Grade 3-5 classrooms	18,000	sf	192.00	\$3,456,000	\$864,000	\$4,320,000	1
staff support space	10,000	sf	192.00	\$1,920,000	\$480,000	\$2,400,000	1
building support space	10,000	sf	192.00	\$1,920,000	\$480,000	\$2,400,000	1
bulking factor	8,400	sf	192.00	\$1,612,800	\$403,200	\$2,016,000	1

New Construction Subtotal: 64,400 192.00 \$12,364,800 \$15,456,000

ARCHITECTURAL WORK

Environmental

Abate asbestos for building demolition	7,500	sf	2.00	\$15,000	\$3,750	\$18,750	inc w/ central	1
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Demolition

Demo classroom portion of building	7,500	sf	6.00	\$45,000	\$11,250	\$56,250	inc w/ central	1
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Interior Construction

Renovate old classrooms to special use	4,000	sf	50.00	\$200,000	\$50,000	\$250,000	inc mech & elec	1
Renovate cafeteria	10,000	sf	50.00	\$500,000	\$125,000	\$625,000	inc mech & elec	1
Renovate gym	10,000	sf	50.00	\$500,000	\$125,000	\$625,000	inc mech & elec	1
Renovations to connect to addition	64,400	sf	5.00	\$322,000	\$80,500	\$402,500	inc mech & elec	1

Architectural Work Subtotal: \$1,582,000 \$1,977,500

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
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Electrical Work Subtotal: \$5,000 \$6,250

TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

Fiber backbone to IDFs for 10G	4	ea	2,500.00	\$10,000	\$2,500	\$12,500	Assumes part of building would be demolis	1
Voice/data structured cabling	1	allo	40,000.00	\$40,000	\$10,000	\$50,000		1
Allowance for cabling to support series 3 needs	1	allo	2,000.00	\$2,000	\$500	\$2,500		3

Network / Wireless / Phone

Network infr. - building core	1	ea	25,000.00	\$25,000	\$6,250	\$31,250		1
Network infr. - edge switches	1	ls	75,000.00	\$75,000	\$18,750	\$93,750		1
UPS in each telecommunication room	4	ea	3,000.00	\$12,000	\$3,000	\$15,000	Assumes part of building would be demolis	1
Network infrastructure for Series 3 needs	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		3
Wireless infrastructure	57	ea	950.00	\$53,833	\$13,458	\$67,292		1
Phone system	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		1

Clock System

Clock system	1	ls	27,000.00	\$27,000	\$6,750	\$33,750		1
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Security

Video surveillance	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		1
Expand access control	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Install district-wide PA system	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		1

Technology Infrastructure Subtotal: \$394,833 \$493,542

Remodeling Subtotal: \$1,981,833

SITE WORK

Site Infrastructure

Improve site furnishings	1	allo	17,600.00	\$17,600	\$4,400	\$22,000	bike racks, flag pole, fencing	1
Site Work for Addition	64,400	sf	4.00	\$257,600	\$64,400	\$322,000	utilities, paving, restoration	1

Site Paving

Install new parking areas (w/ storm system)	22	ksf	7,500.00	\$165,000	\$41,250	\$206,250		1
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Playfields (playground/athletics)

Improve playground / playfield area	1	ls	75,000.00	\$75,000	\$18,750	\$93,750		1
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Barton Malow Company Site Work Subtotal: \$515,200 \$644,000



= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Central School	Year Built: 2017	
(Central Middle School Campus)	Building Size: 85,000	capacity: N/A
Building Project Work List	Site Size: x	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Central School
 (Central Middle School Campus)
Building Project Work List

Date: 10/1/2014 site visit: N/A
 Grades: N/A enrollment: N/A
 Year Built: 2017
 Building Size: 85,000 capacity: N/A
 Site Size: x

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices (based on Carpenter and Eastlawn Quantities)

Replace teacher/staff laptops	63	ea	1,000.00	\$63,000	\$15,750	\$78,750	1
Mobile devices for teachers/staff	63	ea	650.00	\$40,950	\$10,238	\$51,188	1
Replace student / lab desktops	35	ea	1,000.00	\$35,000	\$8,750	\$43,750	1
Replace student laptop carts	2	ea	34,500.00	\$69,000	\$17,250	\$86,250	1
Mobile devices for students (does not include cart)	746	ea	650.00	\$484,900	\$121,225	\$606,125	1
Technology equipment - Series 2	1	ls	692,850.00	\$692,850	\$69,285	\$762,135	2
Technology equipment - Series 3	1	ls	525,850.00	\$525,850	\$52,585	\$578,435	3

Classroom Technologies

Install classroom/lab projectors	52	ea	1,800.00	\$93,600	\$23,400	\$117,000	1
Install sound field amplification	52	ea	1,250.00	\$65,000	\$16,250	\$81,250	1
Document camera	5	ea	550.00	\$2,750	\$688	\$3,438	1
Refresh classroom projector	1	ls	93,600.00	\$93,600	\$23,400	\$117,000	3

Technology Equipment subtotal:	\$2,166,500	\$2,525,320
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	7	ea	600.00	\$4,200	\$1,050	\$5,250	1
Replace color printers	2	ea	1,350.00	\$2,700	\$675	\$3,375	1
Replace BW MFP printers	6	ea	7,500.00	\$45,000	\$11,250	\$56,250	1
Replace color MFP printers	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	1
Replace Point of Sale (POS) equipment / Food Service	2	ea	1,000.00	\$2,000	\$500	\$2,500	1

Technology - Audiovisual

Media center audiovisual	1	ls	15,000.00	\$15,000	\$3,750	\$18,750	1
Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750	1
Conference room / IEP displays	2	ls	2,500.00	\$5,000	\$1,250	\$6,250	1
Gym sound system	1	ea	15,000.00	\$15,000	\$3,750	\$18,750	1
Digital Signage	4	ea	2,800.00	\$11,200	\$2,800	\$14,000	1

Furniture & Furnishings

Replacement furniture & furnishings	24,000	sf	2.00	\$48,000	\$5,760	\$53,760	cafeteria tables and gym equipment	1
Furniture for Addition	64,400	sf	4.00	\$257,600	\$30,912	\$288,512	classroom desks and chairs	1

F, F, & E Subtotal:	\$460,700	\$536,147
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TOTAL DIRECT COSTS:	\$17,489,033	\$21,638,759
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Project Contingency:	\$1,748,903
General Conditions:	\$325,407
CM Fee / Reimbursables:	\$1,037,708
A/E Fee / Reimbursables:	\$1,037,708

TOTAL PROJECT COSTS:	\$21,638,759
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\$21,638,759 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Central Auditorium (Performing Arts Center)	Year Built: 1937	
305 E. Reardon St., Midland, MI	Building Size: 125,135	capacity: 765
Building Project Work List	Site Size: 20,000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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NEW CONSTRUCTION

<u>Addition</u>									
	Enlarge front lobby	2,000	sf	192.00	\$384,000	\$96,000	\$480,000		1
	Enlarge back of stage	2,000	sf	192.00	\$384,000	\$96,000	\$480,000		1
New Construction Subtotal:		4,000		192.00	\$768,000			\$960,000	

ARCHITECTURAL WORK

<u>Environmental</u>									
	Abate asbestos for building demolition	49,000	sf	2.00	\$98,000	\$24,500	\$122,500		1
<u>Demolition</u>									
	Demo classroom portion of building	25,000	sf	6.00	\$150,000	\$37,500	\$187,500	except gym/café	1
<u>Interior Construction</u>									
	Renovations to performing arts area	31,000	sf	90.00	\$2,790,000	\$697,500	\$3,487,500	inc mech & elec	1
	Renovations to connect to addition	4,000	sf	5.00	\$20,000	\$5,000	\$25,000	inc mech & elec	1
Architectural Work Subtotal:					\$3,058,000			\$3,822,500	

ELECTRICAL WORK

<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
Electrical Work Subtotal:					\$5,000			\$6,250	

TECHNOLOGY INFRASTRUCTURE

<u>Cabling Infrastructure</u>									
	Remove Category 5 and/or supporting legacy cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
	Fiber backbone to IDFs for 10G	1	ea	2,500.00	\$2,500	\$625	\$3,125	Assumes part of building would be demolis	1
	Replace voice/data structured cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500	Assumes rest in new elem costs	1
	Allowance for cabling to support series 2 needs	1	allo	2,000.00	\$2,000	\$500	\$2,500		2
<u>Network / Wireless / Phone</u>									
	Replace network infr. - edge switches	6	ea	4,200.00	\$25,200	\$6,300	\$31,500	Assumes rest in new elem costs	2
	Replace UPS in each telecommunication room	1	ea	3,000.00	\$3,000	\$750	\$3,750	Assumes part of building would be demolis	2
	Network infrastructure for Series 1 needs	1	ls	7,050.00	\$7,050	\$1,763	\$8,813		1
	Replace wireless infrastructure	10	ea	950.00	\$9,500	\$2,375	\$11,875	Assumes rest in new elem costs	2
	Replace phone system	1	ls	7,500.00	\$7,500	\$1,875	\$9,375	Assumes rest in new elem costs	2
<u>Clock System</u>									
	Replace clock system	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	Assumes rest in new elem costs	1
<u>Security</u>									
	Video surveillance	1	ls	7,500.00	\$7,500	\$1,875	\$9,375	Assumes rest in new elem costs	1
	Expand access control	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	Assumes rest in new elem costs	1
	Install district-wide PA system	1	ls	5,000.00	\$5,000	\$1,250	\$6,250	Assumes rest in new elem costs	1
Technology Infrastructure Subtotal:					\$99,250			\$124,063	
Remodeling Subtotal:					\$3,162,250				

SITE WORK

<u>Site Infrastructure</u>									
	Improve site furnishings	1	allo	5,000.00	\$5,000	\$1,250	\$6,250	flag pole, fencing	1
	Site Work for Addition	4,000	sf	4.00	\$16,000	\$4,000	\$20,000	utilities, paving, restoration	1
<u>Site Paving</u>									
	Install new parking areas (w/ storm system)	10	ksf	7,500.00	\$75,000	\$18,750	\$93,750		1
Site Work Subtotal:					\$96,000			\$120,000	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Central Auditorium (Performing Arts Center)	Year Built: 1937	
305 E. Reardon St., Midland, MI	Building Size: 125,135	capacity: 765
Building Project Work List	Site Size: 20,000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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INSTRUCTIONAL TECHNOLOGY EQUIPMENT

<u>Computers and Mobile Devices</u>									
	Replace teacher/staff laptops	15	ea	1,000.00	\$15,000	\$3,750	\$18,750		1
	Mobile devices for teachers/staff	15	ea	650.00	\$9,750	\$2,438	\$12,188		1
	Technology equipment - Series 2	1	ls	24,750.00	\$24,750	\$2,475	\$27,225		2
	Technology equipment - Series 3	1	ls	24,750.00	\$24,750	\$2,475	\$27,225		3
Technology Equipment subtotal:					\$74,250		\$85,388		

FURNITURE, FURNISHINGS, EQUIPMENT

<u>Technology - Copiers/Printers/POS</u>									
	Replace BW printers	1	ea	600.00	\$600	\$150	\$750		1
	Replace color printers	1	ls	1,350.00	\$1,350	\$338	\$1,688		1
	Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
<u>Technology - Audiovisual</u>									
	Auditorium projector allowance	1	al	50,000.00	\$50,000	\$12,500	\$62,500		1
	Digital Signage	4	ea	2,800.00	\$11,200	\$2,800	\$14,000		1
<u>Furniture & Furnishings</u>									
	Replacement furniture & furnishings	1	ls	31,196.00	\$31,196	\$3,744	\$34,940	desk and chairs	2
	Replacement equipment	1	ls	30,803.50	\$30,804	\$3,696	\$34,500	stage equipment	1
	Furniture for Addition	4,000	sf	4.00	\$16,000	\$1,920	\$17,920	lobby and storage	2
F, F, & E Subtotal:					\$151,150		\$178,797		

TOTAL DIRECT COSTS: \$4,251,650 \$5,296,997

Project Contingency:	\$425,165
General Conditions:	\$84,043
CM Fee / Reimbursables:	\$268,070
A/E Fee / Reimbursables:	\$268,070

TOTAL PROJECT COSTS: \$5,296,997

\$5,296,997 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Jefferson Middle School
 800 W. Chapel Ln, Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1963
 Building Size: 112,246 capacity: x
 Site Size: 22,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
ARCHITECTURAL WORK									
<u>Environmental</u>									
	Abate asbestos floor tile	35,000	sf	2.00	\$70,000	\$17,500	\$87,500	in classrooms	2
<u>Building Envelope</u>									
	Replace doors, frames and hardware	40	ea	3,000.00	\$120,000	\$30,000	\$150,000	original	2
	Replace glazing systems	7,500	sf	60.00	\$450,000	\$112,500	\$562,500		2
	Replace soffits & canopy	1	ls	60,000.00	\$60,000	\$15,000	\$75,000	white panels above roof line	2
<u>Interior Construction</u>									
	Replace doors, frames and hardware	100	ea	200.00	\$20,000	\$5,000	\$25,000	doors/frames ok, replace handle w ADA le	2
	Replace flooring	35,000	sf	4.25	\$148,800	\$37,200	\$186,000	at removed asbestos	2
	Replace visual display boards	25	ea	2,500.00	\$62,500	\$15,625	\$78,125		2
	Replace toilet partitions & accessories	20	ea	2,500.00	\$50,000	\$12,500	\$62,500	metal to plastic	2
	Replace gym equipment	8	ea	2,500.00	\$20,000	\$5,000	\$25,000	main & aux gym backboards	2
	Replace casework	100	lf	400.00	\$40,000	\$10,000	\$50,000		2
	Replace fixed seating - auditorium	250	ea	160.00	\$40,000	\$10,000	\$50,000	original	2
	Replace fixed seating - gym bleachers	800	ea	115.00	\$92,000	\$23,000	\$115,000	old wood	2
	Renovate Media Center for Learn Labs	1	ls	50,000.00	\$50,000	\$12,500	\$62,500		2
	Modify lobby to create secure entrance	2,000	sf	100.00	\$200,000	\$50,000	\$250,000		1
Architectural Work Subtotal:					\$1,423,300			\$1,779,125	
MECHANICAL WORK									
<u>Plumbing</u>									
	Replace Dom Water Heater	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		2
	Replace Pool Heater	1	ea	50,000.00	\$50,000	\$12,500	\$62,500		2
	Replace Pool heater piping from boiler room to pool	500	LF	50.00	\$25,000	\$6,250	\$31,250		2
<u>H.V.A.C.</u>									
	Replace Boiler	2	ea	150,000.00	\$300,000	\$75,000	\$375,000		1
	Add AC to Tech Closet	1	ea	10,000.00	\$10,000	\$2,500	\$12,500	MDF	2
	Replace Cabinet Unit Heaters	20	ea	5,000.00	\$100,000	\$25,000	\$125,000		2
	Replace Exhaust Fans	15	ea	4,000.00	\$60,000	\$15,000	\$75,000		2
	Correct Kitchen Ventilation Problems	1	LS	10,000.00	\$10,000	\$2,500	\$13,700		2
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	112,246	SF	2.25	\$252,600	\$63,150	\$315,750		2
Mechanical Work Subtotal:					\$817,600			\$1,023,200	
ELECTRICAL WORK									
<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
<u>Lighting</u>									
	Upgrade Site Lighting	1	ls	112,000.00	\$112,000	\$28,000	\$140,000		2
	Upgrade Exterior building mounted Lighting	1	ls	16,000.00	\$16,000	\$4,000	\$20,000		2
	Add Exterior Emergency Egress Lighting	1	ls	4,000.00	\$4,000	\$1,000	\$5,000		2
	Add Occupancy Sensors	1	ls	12,000.00	\$12,000	\$3,000	\$15,000		2
	Upgrade Theater House Lights	1	ls	20,000.00	\$20,000	\$5,000	\$25,000		2
Electrical Work Subtotal:					\$174,000			\$217,500	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Jefferson Middle School
 800 W. Chapel Ln, Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1963
 Building Size: 112,246 capacity: x
 Site Size: 22,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

Remove Category 5 and/or supporting legacy cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
Fiber backbone to IDFs for 10G	2	ea	2,500.00	\$5,000	\$1,250	\$6,250		1
Additional voice/data structured cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
Allowance for cabling to support series 2 needs	1	allo	7,500.00	\$7,500	\$1,875	\$9,375		2

Network / Wireless / Phone

Replace network infr. - building core	1	ea	28,500.00	\$28,500	\$7,125	\$35,625		2
Replace network infr. - edge switches	15	ea	4,200.00	\$63,000	\$15,750	\$78,750	Based on existing plus 1 per closet growth	2
Replace UPS in each telecommunication room	3	ea	3,000.00	\$9,000	\$2,250	\$11,250		2
Network infrastructure for Series 1 needs	1	ls	25,125.00	\$25,125	\$6,281	\$31,406		1
Replace wireless infrastructure	71	ea	950.00	\$67,450	\$16,863	\$84,313		2
Replace phone system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2
Replace district servers	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		1

Clock System

Replace clock system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2
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Security

Video surveillance	1	ls	41,000.00	\$41,000	\$10,250	\$51,250		1
Expand access control	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		1
Install district-wide PA system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2

Technology Infrastructure Subtotal: \$421,575 \$526,969

Remodeling Subtotal: \$2,836,475

SITE WORK

Site Infrastructure

Remove and replace fencing	1	allo	30,000.00	\$30,000	\$7,500	\$37,500	650 lf of fencing around tennis courts	2
Improve site furnishings	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	bike racks, flag pole, fencing	2
Improve site grading / landscaping	1	allo	50,000.00	\$50,000	\$12,500	\$62,500	Storm water detention area, additional lan	2
Upgrade site utilities	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	Additional storm sewer system	2

Site Paving

Replace site concrete	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	Install new 3500SF 8' sidewalk w/ integral	2
Repave parking and drives	61	ksf	2,500.00	\$152,500	\$38,125	\$190,625	Additional parking in south lot. Repair wes	2
Repave parking and drives (deep strength asphalt)	14	ksf	4,000.00	\$56,000	\$14,000	\$70,000	Remove and replace bus drive	2

Playfields (playground/athletics)

Upgrade athletic fields	1	ls	60,000.00	\$60,000	\$15,000	\$75,000	relocate existing ball diamond	2
Resurface tennis courts	1	ls	75,000.00	\$75,000	\$18,750	\$93,750	including nets and fencing	2

Site Work Subtotal: \$483,500 \$604,375

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	63	ea	1,000.00	\$63,000	\$15,750	\$78,750		1
Mobile devices for teachers/staff	63	ea	650.00	\$40,950	\$10,238	\$51,188		1
Replace student / lab desktops	64	ea	1,000.00	\$64,000	\$16,000	\$80,000		1
Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
Mobile devices for students (does not include cart)	935	ea	650.00	\$607,750	\$151,938	\$759,688	Based on 2013 enrollment +5%	1
Technology equipment - Series 1	1	ls	395,000.00	\$395,000	\$39,500	\$533,250	Placeholder row for shifting between serie	1
Technology equipment - Series 2	1	ls	111,325.00	\$111,325	\$11,133	\$122,458		2
Technology equipment - Series 3	1	ls	344,825.00	\$344,825	\$34,483	\$379,308		3

Classroom Technologies

Install classroom/lab projectors	53	ea	1,800.00	\$95,400	\$23,850	\$119,250		2
Install sound field amplification	53	ea	1,250.00	\$66,250	\$16,563	\$82,813		2
Document camera	10	ea	550.00	\$5,500	\$1,375	\$6,875		1

Technology Equipment subtotal: \$1,828,500 \$2,256,703

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Jefferson Middle School
 800 W. Chapel Ln, Midland, MI 48640
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1963
 Building Size: 112,246 capacity: x
 Site Size: 22,000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	5	ea	600.00	\$3,000	\$750	\$3,750	1
Replace color printers	3	ls	1,350.00	\$4,050	\$1,013	\$5,063	1
Replace BW MFP printers	2	ea	7,500.00	\$15,000	\$3,750	\$18,750	1
Replace Point of Sale (POS) equipment / Food Service	3	ea	1,000.00	\$3,000	\$750	\$3,750	1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750	2
Conference room / IEP displays	2	ls	2,500.00	\$5,000	\$1,250	\$6,250	2
Install projector in auditorium	1	ea	35,000.00	\$35,000	\$8,750	\$43,750	2
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500	2
Digital Signage	2	ea	2,800.00	\$5,600	\$1,400	\$7,000	2

Furniture & Furnishings

Replacement furniture & furnishings	112,246	ea	1.75	\$196,400	\$23,568	\$219,968	classroom desks and chairs	2
Replacement equipment	1	allo	15,000.00	\$15,000	\$1,800	\$16,800	athletics	2

F, F, & E Subtotal:				\$319,050		\$371,331	
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TOTAL DIRECT COSTS:	\$5,467,525	\$6,779,202
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Project Contingency: \$546,753
 General Conditions: \$100,228
 CM Fee / Reimbursables: \$311,998
 A/E Fee / Reimbursables: \$311,998

TOTAL PROJECT COSTS:	\$6,738,502
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\$6,738,502 check #

Notes:

Indirect costs include: contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Northeast Middle School
 1305 E. Sugnet Rd., Midland MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1950
 Building Size: 147,638 capacity: x
 Site Size: 13.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
ARCHITECTURAL WORK									
<u>Environmental</u>									
	Abate asbestos floor tile	25	ksf	1,500.00	\$37,500	\$9,375	\$46,875	classrooms, theater	2
<u>Building Envelope</u>									
	Replace roof system	25,000	sf	9.00	\$225,000	\$56,250	\$281,250	partial	2
	Demo chimney	1	allo	20,000.00	\$20,000	\$5,000	\$25,000		2
	Replace exterior brick, add control joints	1	allo	150,000.00	\$150,000	\$37,500	\$187,500	major issues	1
	Replace glazing systems	1,500	sf	60.00	\$90,000	\$22,500	\$112,500		2
	Replace soffits & canopy	1	ls	60,000.00	\$60,000	\$15,000	\$75,000	panels are peeling/leaking	2
<u>Interior Construction</u>									
	Replace doors, frames and hardware	100	ea	200.00	\$20,000	\$5,000	\$25,000	doors/frames ok, replace handle w ADA le	2
	Install sound deadening panels	1	ls	30,000.00	\$30,000	\$7,500	\$37,500	main gym and aux gym	2
	Replace flooring	25,000	sf	4.25	\$106,300	\$26,575	\$132,875	classroom VAT	2
	Replace visual display boards	25	ea	2,500.00	\$62,500	\$15,625	\$78,125	chalk to marker	2
	Replace toilet partitions & accessories	20	ea	2,500.00	\$50,000	\$12,500	\$62,500	metal to plastic	2
	Replace lockers	1,000	ea	100.00	\$100,000	\$25,000	\$125,000	original, cannot get parts	2
	Replace gym equipment	8	ea	2,500.00	\$20,000	\$5,000	\$25,000	main & aux gym backboards	2
	Replace casework	100	lf	400.00	\$40,000	\$10,000	\$50,000	original wood - minimal	2
	Replace fixed seating - auditorium	250	ea	160.00	\$40,000	\$10,000	\$50,000	original	2
	Replace elevator	1	ls	50,000.00	\$50,000	\$12,500	\$62,500		2
	Renovate Media Center for Learn Labs	1	ls	50,000.00	\$50,000	\$12,500	\$62,500		2
	Modify lobby to create secure entrance	2,000	sf	100.00	\$200,000	\$50,000	\$250,000		1
Architectural Work Subtotal:					\$1,351,300			\$1,689,125	
MECHANICAL WORK									
<u>Plumbing</u>									
	New Pool heater	1	ea	60,000.00	\$60,000	\$15,000	\$75,000	(eliminate need to run boilers)	2
<u>H.V.A.C.</u>									
	Replace Boiler	2	ea	150,000.00	\$300,000	\$75,000	\$375,000		1
	Replace Condensate Pump Units	2	ea	15,000.00	\$30,000	\$7,500	\$37,500		2
	Replace all condensate piping	1,000	LF	50.00	\$50,000	\$12,500	\$62,500		2
	Replace Unit Ventilators with new vertical Units	38	ea	16,000.00	\$608,000	\$152,000	\$760,000		2
	Replace indoor Air Handling Units	3	ea	30,000.00	\$90,000	\$22,500	\$112,500		2
	Add AC to Tech Closet	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	New IDF 2 and IDF3	2
	Replace Exhaust Fans	15	ea	4,000.00	\$60,000	\$15,000	\$75,000		2
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	147,638	SF	2.25	\$332,200	\$83,050	\$415,250		2
	Add controls to pool Air Handling Unit	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		2
Mechanical Work Subtotal:					\$1,560,200			\$1,950,250	
ELECTRICAL WORK									
<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
<u>Lighting</u>									
	Upgrade Gym Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
	Upgrade Site Lighting	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2
	Upgrade Exterior building mounted Lighting	1	ls	9,000.00	\$9,000	\$2,250	\$11,250		2
	Add Exterior Emergency Egress Lighting	1	ls	9,000.00	\$9,000	\$2,250	\$11,250		2
	Add Occupancy Sensors	1	ls	12,000.00	\$12,000	\$3,000	\$15,000		2
	Upgrade Theater House Lights	1	ls	20,000.00	\$20,000	\$5,000	\$25,000		2
	Upgrade Kitchen Lighting	1	ls	8,000.00	\$8,000	\$2,000	\$10,000		2
	Upgrade Aux Gym Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
Electrical Work Subtotal:					\$163,000			\$203,750	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Northeast Middle School
 1305 E. Sugnet Rd., Midland MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1950
 Building Size: 147,638 capacity: x
 Site Size: 13.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

Remove Category 5 and/or supporting legacy cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
Fiber backbone to IDFs for 10G	4	ea	2,500.00	\$10,000	\$2,500	\$12,500		1
Additional voice/data structured cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
Allowance for cabling to support series 2 needs	1	allo	7,500.00	\$7,500	\$1,875	\$9,375		2

Network / Wireless / Phone

Replace network infr. - building core	1	ea	28,500.00	\$28,500	\$7,125	\$35,625		2
Replace network infr. - edge switches	24	ea	4,200.00	\$100,800	\$25,200	\$126,000	Based on existing plus 1 per closet growth	2
Replace UPS in each telecommunication room	5	ea	3,000.00	\$15,000	\$3,750	\$18,750		2
Network infrastructure for Series 1 needs	1	ls	36,075.00	\$36,075	\$9,019	\$45,094		1
Replace wireless infrastructure	98	ea	950.00	\$93,100	\$23,275	\$116,375		2
Replace phone system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2
Replace district servers	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		1

Clock System

Replace clock system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2
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Security

Video surveillance	1	ls	41,000.00	\$41,000	\$10,250	\$51,250		1
Expand access control	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		1
Install district-wide PA system	1	ls	35,000.00	\$35,000	\$8,750	\$43,750		2

Technology Infrastructure Subtotal: **\$506,975** **\$633,719**

Remodeling Subtotal: **\$3,581,475**

SITE WORK

Site Infrastructure

Demo modular building and restoration	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		2
Improve site furnishings	1	allo	20,000.00	\$20,000	\$5,000	\$25,000	bike racks, flag pole, fencing	2

Site Paving

Replace site concrete	1	allo	7,500.00	\$7,500	\$1,875	\$9,375		2
Repave parking and drives	1	allo	20,100.00	\$20,100	\$5,025	\$25,125	Problems at auto drop off area	2

Playfields (playground/athletics)

Upgrade athletic fields	1	ls	60,000.00	\$60,000	\$15,000	\$75,000	baseball and soccer	2
Resurface tennis courts	1	ls	75,000.00	\$75,000	\$18,750	\$93,750	nets and fencing	2

Site Work Subtotal: **\$202,600** **\$253,250**

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	76	ea	1,000.00	\$76,000	\$19,000	\$95,000		1
Mobile devices for teachers/staff	76	ea	650.00	\$49,400	\$12,350	\$61,750		1
Replace student / lab desktops	64	ea	1,000.00	\$64,000	\$16,000	\$80,000		1
Replace student laptop carts	1	ea	34,500.00	\$34,500	\$8,625	\$43,125	Replace laptops only, use existing cart	1
Mobile devices for students (does not include cart)	1,050	ea	650.00	\$682,500	\$170,625	\$853,125	Based on 2013 enrollment +5%	1
Technology equipment - Series 1	1	ls	395,000.00	\$395,000	\$39,500	\$533,250	Placeholder row for shifting between series	2
Technology equipment - Series 2	1	ls	170,150.00	\$170,150	\$17,015	\$187,165		2
Technology equipment - Series 3	2	ls	220,025.00	\$440,050	\$44,005	\$484,055		3

Classroom Technologies

Install classroom/lab projectors	61	ea	1,800.00	\$109,800	\$27,450	\$137,250		2
Install sound field amplification	61	ea	1,250.00	\$76,250	\$19,063	\$95,313		2
Document camera	10	ea	550.00	\$5,500	\$1,375	\$6,875		1

Technology Equipment subtotal: **\$2,103,150** **\$2,576,908**

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Northeast Middle School
 1305 E. Sugnet Rd., Midland MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: 6-8 enrollment: x
 Year Built: 1950
 Building Size: 147,638 capacity: x
 Site Size: 13.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	3	ea	600.00	\$1,800	\$450	\$2,250	1
Replace color printers	4	ls	1,350.00	\$5,400	\$1,350	\$6,750	1
Replace BW MFP printers	4	ea	7,500.00	\$30,000	\$7,500	\$37,500	1
Replace Point of Sale (POS) equipment / Food Service	3	ea	1,000.00	\$3,000	\$750	\$3,750	1

Technology - Audiovisual

Audiovisual for collaboration spaces (whole class)	1	ea	35,000.00	\$35,000	\$8,750	\$43,750	2
Conference room / IEP displays	2	ls	2,500.00	\$5,000	\$1,250	\$6,250	2
Install projector in auditorium	1	ea	35,000.00	\$35,000	\$8,750	\$43,750	2
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500	2
Digital Signage	2	ea	2,800.00	\$5,600	\$1,400	\$7,000	2

Furniture & Furnishings

Replacement furniture & furnishings	147,638	ea	1.75	\$258,400	\$31,008	\$289,408	classroom desks and chairs	2
Replacement equipment	1	allo	15,000.00	\$15,000	\$1,800	\$16,800	athletics	2

F, F, & E Subtotal:				\$396,200		\$459,708	
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TOTAL DIRECT COSTS:	\$6,283,425	\$7,766,709
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Project Contingency: \$628,343
 General Conditions: \$113,465
 CM Fee / Reimbursables: \$350,989
 A/E Fee / Reimbursables: \$350,989

TOTAL PROJECT COSTS:	\$7,727,209
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\$7,727,209 check #

Notes:

Indirect costs include: contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS

District Wide Facility Assessment

H.H. Dow High School

3901 N. Saginaw Rd., Midland, MI 48640

Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014

Grades: 9 thru 12 enrollment: x

Year Built: 1967 (Music room & gym 2005, classroom addition 2008)

Building Size: 276,104 capacity: x

Site Size: 67.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
NEW CONSTRUCTION									
<u>Addition</u>									
	Secure Entrance Office Addition	2,000	sf	192.00	\$384,000	\$96,000	\$480,000		1
New Construction Subtotal:		2,000		192.00	\$384,000			\$480,000	
ARCHITECTURAL WORK									
<u>Building Envelope</u>									
	Replace doors, frames and hardware	150	ea	3,000.00	\$450,000	\$112,500	\$562,500		2
	Replace glazing systems	15,000	sf	60.00	\$900,000	\$225,000	\$1,125,000		2
<u>Interior Construction</u>									
	Replace visual display boards	25	ea	2,500.00	\$62,500	\$15,625	\$78,125	chalk to marker	2
	Replace toilet partitions & accessories	20	ea	2,500.00	\$50,000	\$12,500	\$62,500	metal to plastic	2
	Replace gym lockers	500	ea	125.00	\$62,500	\$15,625	\$78,125		2
	Replace folding wall	1	ea	50,000.00	\$50,000	\$12,500	\$62,500	cafeteria	2
	Replace fixed seating - auditorium	500	ea	160.00	\$80,000	\$20,000	\$100,000		2
	Replace fixed seating - bleachers	500	ea	115.00	\$57,500	\$14,375	\$71,875	pool-wood	2
	Renovate Media Center	1	ls	180,000.00	\$180,000	\$45,000	\$225,000	layout for Learn Lab	2
	Renovate science labs	3	ea	125,000.00	\$375,000	\$93,750	\$468,750	casework, sinks, flooring	2
	Renovations to connect to addition	2,000	ea	5.00	\$10,000	\$2,500	\$12,500		1
Architectural Work Subtotal:					\$2,277,500			\$2,846,875	
MECHANICAL WORK									
<u>Plumbing</u>									
	New Pool heater (eliminate need to run boilers)	1	ea	60,000.00	\$60,000	\$15,000	\$75,000		2
	Replace galvanized domestic water piping	3,000	LF	40.00	\$120,000	\$30,000	\$150,000		2
	New Dom Water heater for locker rooms (eliminate need t	1	ea	15,000.00	\$15,000	\$3,750	\$18,750		2
<u>H.V.A.C.</u>									
	Replace indoor Air Handling Units	14	ea	30,000.00	\$420,000	\$105,000	\$525,000		2
	New Roof Top Unit with DX for Office area	1	ea	25,000.00	\$25,000	\$6,250	\$31,250	(7.5 Tons)	2
	Add AC to Tech Closet	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	IDF 5 and gym IDF	2
	Add cooling coil to Gym Air Handling Unit	1	ea	5,000.00	\$5,000	\$1,250	\$6,250	(pipe is already there)	2
	Replace Cabinet Unit Heaters	20	ea	5,000.00	\$100,000	\$25,000	\$125,000		2
	Replace Exhaust Fans	20	ea	4,000.00	\$80,000	\$20,000	\$100,000		2
	New outdoor dust collector	1	ea	35,000.00	\$35,000	\$8,800	\$52,550		2
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	276,104	SF	2.25	\$621,200	\$155,300	\$776,500		2
Mechanical Work Subtotal:					\$1,501,200			\$1,885,300	
ELECTRICAL WORK									
<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
<u>Lighting</u>									
	Upgrade Site Lighting	1	ls	280,000.00	\$280,000	\$70,000	\$350,000		2
	Upgrade Exterior building mounted Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
	Add Exterior Emergency Egress Lighting	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		2
	Add Occupancy Sensors	1	LS	14,000.00	\$14,000	\$3,500	\$17,500		2
	Upgrade Theater House Lights	1	ls	20,000.00	\$20,000	\$5,000	\$25,000		2
	Provide Emergency Power to Pool Pump	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		2
Electrical Work Subtotal:					\$419,000			\$523,750	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS

District Wide Facility Assessment

H.H. Dow High School

3901 N. Saginaw Rd., Midland, MI 48640

Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014

Grades: 9 thru 12 enrollment: x

Year Built: 1967 (Music room & gym 2005, classroom addition 2008)

Building Size: 276,104 capacity: x

Site Size: 67.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
TECHNOLOGY INFRASTRUCTURE									
<u>Cabling Infrastructure</u>									
	Remove Category 5 and/or supporting legacy cabling	1	allo	15,000.00	\$15,000	\$3,750	\$18,750		2
	Fiber backbone to IDFs for 10G	7	ea	2,500.00	\$17,500	\$4,375	\$21,875		1
	Additional voice/data structured cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500	Support office addition and other needs	1
	Allowance for cabling to support series 2 needs	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
<u>Network / Wireless / Phone</u>									
	Replace network infr. - building core	1	ea	28,500.00	\$28,500	\$7,125	\$35,625		2
	Replace network infr. - edge switches	50	ea	4,200.00	\$210,000	\$52,500	\$262,500	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	8	ea	3,000.00	\$24,000	\$6,000	\$30,000		2
	Network infrastructure for Series 1 needs	1	ls	65,625.00	\$65,625	\$16,406	\$82,031		1
	Replace wireless infrastructure	141	ea	950.00	\$133,950	\$33,488	\$167,438		2
	Replace phone system	1	ls	45,000.00	\$45,000	\$11,250	\$56,250		2
	Replace district servers	1	ls	100,000.00	\$100,000	\$25,000	\$125,000		1
	Refresh/expand servers/management tools series 2	1	allo	50,000.00	\$50,000	\$12,500	\$62,500		2
<u>Clock System</u>									
	Replace clock system	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
<u>Security</u>									
	Video surveillance	1	ls	65,000.00	\$65,000	\$16,250	\$81,250		1
	Expand access control	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
	Install district-wide PA system	1	ls	55,000.00	\$55,000	\$13,750	\$68,750		2
Technology Infrastructure Subtotal:					\$884,575		\$1,105,719		
Remodeling Subtotal:					\$5,082,275				
SITE WORK									
<u>Site Infrastructure</u>									
	Demo modular Building	3	ea	10,000.00	\$30,000	\$7,500	\$37,500		2
	Remove and replace fencing	1	allo	10,000.00	\$10,000	\$2,500	\$12,500	Install two gates to control access	2
	Improve site furnishings	1	allo	150,000.00	\$150,000	\$37,500	\$187,500	bike racks, flag pole, fencing	2
	Improve site grading / landscaping	1	allo	50,000.00	\$50,000	\$12,500	\$62,500	Additional storm sewer detention area	2
	Site Work for Addition	2,000	sf	8.00	\$16,000	\$4,000	\$20,000		1
<u>Site Paving</u>									
	Replace site concrete	48,200	SF	6.00	\$289,200	\$72,300	\$361,500	Remove concrete, re-grade, eliminate step	2
	Remove and replace 24" curb and gutter	1,000	LF	20.00	\$20,000	\$5,000	\$25,000		2
	Asphalt curb	1	allo	3,000.00	\$3,000	\$750	\$3,750		2
	Repave parking and drives	389	ksf	2,500.00	\$972,500	\$243,125	\$1,215,625	Regrading, reconstructing for step removal	2
<u>Playfields (playground/athletics)</u>									
	Improve playground / playfield area	1	ls	160,000.00	\$160,000	\$40,000	\$200,000	athletic support building	2
	Resurface tennis courts	1	allo	100,000.00	\$100,000	\$25,000	\$125,000	nets and fencing	2
Site Work Subtotal:					\$1,800,700		\$2,250,875		
INSTRUCTIONAL TECHNOLOGY EQUIPMENT									
<u>Computers and Mobile Devices</u>									
	Replace teacher/staff laptops	115	ea	1,000.00	\$115,000	\$28,750	\$143,750		1
	Mobile devices for teachers/staff	115	ea	650.00	\$74,750	\$18,688	\$93,438		1
	Replace student / lab desktops	320	ea	1,000.00	\$320,000	\$80,000	\$400,000		1
	Replace lab workstations (CAD, arts, video production)	77	ea	1,800.00	\$138,600	\$34,650	\$173,250		1
	Replace student laptop carts	4	ea	34,500.00	\$138,000	\$34,500	\$172,500	Replace laptops only, reuse existing cart	1
	Mobile devices for students (does not include cart)	1,355	ea	650.00	\$880,750	\$220,188	\$1,100,938	Based on 2013 enrollment +5%	1
	Technology equipment - Series 2	1	ls	711,600.00	\$711,600	\$71,160	\$782,760	Refresh of computers	2
	Technology equipment - Series 3	2	ls	294,937.50	\$589,875	\$58,988	\$648,863	2x Refresh of mobile devices (1 at beginning)	3
<u>Classroom Technologies</u>									
	Install classroom/lab projectors	98	ea	1,800.00	\$176,400	\$44,100	\$220,500		2
	Install sound field amplification	98	ea	1,250.00	\$122,500	\$30,625	\$153,125		2
	Document camera	20	ea	550.00	\$11,000	\$2,750	\$13,750		1
Technology Equipment subtotal:					\$3,278,475		\$3,902,873		

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS

District Wide Facility Assessment

H.H. Dow High School

3901 N. Saginaw Rd., Midland, MI 48640

Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014

Grades: 9 thru 12 enrollment: x

Year Built: 1967 (Music room & gym 2005, classroom addition 2008)

Building Size: 276,104 capacity: x

Site Size: 67.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	14	ea	600.00	\$8,400	\$2,100	\$10,500		1
Replace color printers	5	ls	1,350.00	\$6,750	\$1,688	\$8,438		1
Replace BW MFP printers	5	ea	7,500.00	\$37,500	\$9,375	\$46,875		1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1

Technology - Audiovisual

Media center audiovisual	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		2
Audiovisual for collaboration spaces (small group)	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		2
Audiovisual for collaboration spaces (whole class)	2	ea	35,000.00	\$70,000	\$17,500	\$87,500		2
Audiovisual for online learning space	2	ls	5,000.00	\$10,000	\$2,500	\$12,500		2
Conference room / IEP displays	4	ls	2,500.00	\$10,000	\$2,500	\$12,500		2
Install projector in auditorium	1	ea	50,000.00	\$50,000	\$12,500	\$62,500		2
Recording capabilities in band and orchestra classrooms	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		2
Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500		2
Digital Signage	4	ea	2,800.00	\$11,200	\$2,800	\$14,000		2

Furniture & Furnishings

Replacement furniture & furnishings	276,104	ea	1.75	\$483,200	\$57,984	\$541,184	classroom desks and chairs	2
Replacement equipment	1	allo	50,000.00	\$50,000	\$6,000	\$56,000	athletics	2
Furniture for Addition	2,000	sf	6.00	\$12,000	\$1,440	\$13,440	office desks and chairs	2

F, F, & E Subtotal:

\$816,050

\$949,187

TOTAL DIRECT COSTS: \$11,361,500

\$13,944,578

Project Contingency: \$1,136,150
 General Conditions: \$201,201
 CM Fee / Reimbursables: \$618,464
 A/E Fee / Reimbursables: \$618,464

TOTAL PROJECT COSTS: \$13,935,778

\$13,935,778 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Midland High School
 1301 Eastlawn, Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014
 Grades: 9 thru 12 enrollment: x
 Year Built: 1955 (Music room & aux. gym in 2006)
 Building Size: 295,752 capacity: x
 Site Size: 39.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
ARCHITECTURAL WORK									
<u>Environmental</u>									
	Abate asbestos floor tile	10	ksf	1,500.00	\$15,000	\$3,750	\$18,750	corridor	2
<u>Building Envelope</u>									
	Add downspout and gutters	1	allo	5,000.00	\$5,000	\$1,250	\$6,250	Roof overflow causing concrete to heave	2
<u>Interior Construction</u>									
	Replace flooring	10,000	sf	4.25	\$42,500	\$10,625	\$53,125	corridor VAT	2
	Replace visual display boards	50	ea	2,500.00	\$125,000	\$31,250	\$156,250	chalk to marker	2
	Replace toilet partitions & accessories	20	ea	2,500.00	\$50,000	\$12,500	\$62,500	metal to plastic	2
	Replace lockers	1,500	ea	100.00	\$150,000	\$37,500	\$187,500	original	2
	Replace gym lockers	500	ea	125.00	\$62,500	\$15,625	\$78,125		2
	Replace gym equipment	8	ea	2,500.00	\$20,000	\$5,000	\$25,000	original backboards	2
	Replace fixed seating - auditorium	500	ea	160.00	\$80,000	\$20,000	\$100,000	original	2
	Replace elevator	1	ls	75,000.00	\$75,000	\$18,750	\$93,750	freight	2
	Modify lobby to create secure entrance	2,000	sf	100.00	\$200,000	\$50,000	\$250,000		1
	Renovate Media Center	1	ls	180,000.00	\$180,000	\$45,000	\$225,000	layout for Learn Lab	2
	Renovate locker rooms	6,000	sf	75.00	\$450,000	\$112,500	\$562,500	layout, lockers, flooring	2
	Renovate science labs	3	ea	125,000.00	\$375,000	\$93,750	\$468,750	casework, sinks, flooring	2
Architectural Work Subtotal:					\$1,830,000		\$2,287,500		
MECHANICAL WORK									
<u>Plumbing</u>									
	New small steam boiler for dishwasher	1	ea	25,000.00	\$25,000	\$6,250	\$31,250	(to eliminate need to run boilers)	2
	Replace expansion joints on domestic HW pipe	6	ea	1,000.00	\$6,000	\$1,500	\$7,500		2
<u>H.V.A.C.</u>									
	Replace all condensate piping	1,500	LF	50.00	\$75,000	\$18,750	\$93,750		2
	Replace indoor Air Handling Units	9	ea	30,000.00	\$270,000	\$67,500	\$337,500		2
	Replace Locker Room Heating & Venting Unit	1	ea	30,000.00	\$30,000	\$7,500	\$37,500		2
	Replace gym Heat & Vent unit	1	ea	40,000.00	\$40,000	\$10,000	\$50,000		2
	Add AC to Tech Closet	2	ea	10,000.00	\$20,000	\$5,000	\$25,000	IDF (by 224) and IDF (by 321A)	2
	Correct Welding shop Ventilation Problems	1	LS	10,000.00	\$10,000	\$2,500	\$12,500		2
	Add heat for rooms 113 -118	1	LS	10,000.00	\$10,000	\$2,500	\$12,500	(pipe freeze problems)	2
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	295,752	SF	2.25	\$665,400	\$166,350	\$831,750		2
Mechanical Work Subtotal:					\$1,151,400		\$1,439,250		
ELECTRICAL WORK									
<u>Electrical-Power</u>									
	Add electrical to support technology	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
<u>Lighting</u>									
	Upgrade Gym Lighting	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
	Upgrade Site Lighting	1	ls	250,000.00	\$250,000	\$62,500	\$312,500		2
	Upgrade Exterior building mounted Lighting	1	ls	22,000.00	\$22,000	\$5,500	\$27,500		2
	Add Exterior Emergency Egress Lighting	1	ls	12,000.00	\$12,000	\$3,000	\$15,000		2
	Add Occupancy Sensors	1	ls	14,000.00	\$14,000	\$3,500	\$17,500		2
	Football Field Lighting Control Upgrade	1	ls	8,000.00	\$8,000	\$2,000	\$10,000		2
	Add power receptacles around track	1	ls	10,000.00	\$10,000	\$2,500	\$12,500		2
	Upgrade Lighting in Field Locker/Toilets/Concessions	1	ls	6,000.00	\$6,000	\$1,500	\$7,500		2
	Upgrade Gym/Exterior Lighting Controls	1	ls	5,000.00	\$5,000	\$1,250	\$6,250		2
	Change CF lamped fixtures to LED	1	ls	4,000.00	\$4,000	\$1,000	\$5,000		2
Electrical Work Subtotal:					\$371,000		\$463,750		

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Midland High School
 1301 Eastlawn, Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014
 Grades: 9 thru 12 enrollment: x
 Year Built: 1955 (Music room & aux. gym in 2006)
 Building Size: 295,752 capacity: x
 Site Size: 39.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

Remove Category 5 and/or supporting legacy cabling	1	allo	15,000.00	\$15,000	\$3,750	\$18,750		2
Fiber backbone to IDFs for 10G	8	ea	2,500.00	\$20,000	\$5,000	\$25,000		1
Replace voice/data structured cabling	1	allo	180.00	\$180	\$45	\$225		1
Additional voice/data structured cabling	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		1
Allowance for cabling to support series 2 needs	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2

Network / Wireless / Phone

Replace network infr. - building core	1	ea	28,500.00	\$28,500	\$7,125	\$35,625		2
Replace network infr. - edge switches	50	ea	4,200.00	\$210,000	\$52,500	\$262,500	Based on existing plus 1 per closet growth	2
Replace UPS in each telecommunication room	9	ea	3,000.00	\$27,000	\$6,750	\$33,750		2
Network infrastructure for Series 1 needs	1	ls	66,375.00	\$66,375	\$16,594	\$82,969		1
Replace wireless infrastructure	135	ea	950.00	\$128,250	\$32,063	\$160,313		2
Replace phone system	1	ls	45,000.00	\$45,000	\$11,250	\$56,250		2

Clock System

Replace clock system	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
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Security

Video surveillance	1	ls	65,000.00	\$65,000	\$16,250	\$81,250		1
Expand access control	1	ls	25,000.00	\$25,000	\$6,250	\$31,250		1
Install district-wide PA system	1	ls	55,000.00	\$55,000	\$13,750	\$68,750		2

Technology Infrastructure Subtotal: **\$735,305** **\$919,131**

Remodeling Subtotal: **\$4,087,705**

SITE WORK

Site Infrastructure

Remove and replace fencing	1	allo	50,000.00	\$50,000	\$12,500	\$62,500	Remove guardrail and fence at East parkir	2
Improve site furnishings	1	allo	150,000.00	\$150,000	\$37,500	\$187,500	bike racks, flag pole, fencing	2
Improve site grading / landscaping	1	allo	100,000.00	\$100,000	\$25,000	\$125,000	Remove NW corner of East P.L. (580 SY),	2

Site Paving

Replace site concrete	1	allo	25,000.00	\$25,000	\$6,250	\$31,250	4100 sf of concrete walk	2
Replace site concrete (deep strength)	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	700 sf concrete service area	2
Repave parking and drives	266	ksf	2,500.00	\$665,000	\$166,250	\$831,250	Remove/Replace paving in East and SW F	2
Improve traffic control issues	1	allo	30,000.00	\$30,000	\$7,500	\$37,500	Traffic issues at Parent Drop Off area	2

Playfields (playground/athletics)

Resurface track	1	allo	75,000.00	\$75,000	\$18,750	\$93,750		2
Improve playground / playfield area	1	ls	545,000.00	\$545,000	\$136,250	\$681,250	athletic support building, press box, bleach	2
Replace football field turf	1	allo	900,000.00	\$900,000	\$225,000	\$1,125,000	synthetic turf	2
Resurface tennis courts	1	allo	250,000.00	\$250,000	\$62,500	\$312,500	8 courts, remove and replace nets and pos	2

Site Work Subtotal: **\$2,805,000** **\$3,506,250**

INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	117	ea	1,000.00	\$117,000	\$29,250	\$146,250		1
Mobile devices for teachers/staff	117	ea	650.00	\$76,050	\$19,013	\$95,063		1
Replace student / lab desktops	320	ea	1,000.00	\$320,000	\$80,000	\$400,000		1
Replace lab workstations (CAD, arts, video production)	77	ea	1,800.00	\$138,600	\$34,650	\$173,250		1
Replace student laptop carts	4	ea	34,500.00	\$138,000	\$34,500	\$172,500	Replace laptops only, reuse existing cart	1
Mobile devices for students (does not include cart)	1,538	ea	650.00	\$999,700	\$249,925	\$1,249,625	Based on 2013 enrollment +5%	1
Technology equipment - Series 2	1	ls	713,600.00	\$713,600	\$71,360	\$784,960	Refresh of computers	2
Technology equipment - Series 3	1	ls	651,950.00	\$651,950	\$65,195	\$717,145	2x Refresh of mobile devices (1 at beginnii	3

Classroom Technologies

Install classroom/lab projectors	107	ea	1,800.00	\$192,600	\$48,150	\$240,750		2
Install sound field amplification	107	ea	1,250.00	\$133,750	\$33,438	\$167,188		2
Document camera	20	ea	550.00	\$11,000	\$2,750	\$13,750		1

Technology Equipment subtotal: **\$3,492,250** **\$4,160,480**

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Midland High School
 1301 Eastlawn, Midland, MI 48642
Building Project Work List

Date: 10/1/2014 site visit: 7/2/2014
 Grades: 9 thru 12 enrollment: x
 Year Built: 1955 (Music room & aux. gym in 2006)
 Building Size: 295,752 capacity: x
 Site Size: 39.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
FURNITURE, FURNISHINGS, EQUIPMENT									
Technology - Copiers/Printers/POS									
	Replace BW printers	11	ea	600.00	\$6,600	\$1,650	\$8,250		1
	Replace color printers	6	ls	1,350.00	\$8,100	\$2,025	\$10,125		1
	Replace BW MFP printers	8	ea	7,500.00	\$60,000	\$15,000	\$75,000		1
	Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1
	Replace Point of Sale (POS) equipment / Food Service	6	ea	1,000.00	\$6,000	\$1,500	\$7,500		1
Technology - Audiovisual									
	Media center audiovisual	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		2
	Audiovisual for collaboration spaces (small group)	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		2
	Audiovisual for collaboration spaces (whole class)	2	ea	35,000.00	\$70,000	\$17,500	\$87,500		2
	Audiovisual for online learning space	2	ls	5,000.00	\$10,000	\$2,500	\$12,500		2
	Conference room / IEP displays	4	ls	2,500.00	\$10,000	\$2,500	\$12,500		2
	Install projector in auditorium	1	ea	50,000.00	\$50,000	\$12,500	\$62,500		2
	Recording capabilities in band and orchestra classrooms	2	ea	10,000.00	\$20,000	\$5,000	\$25,000		2
	Replace gym sound system	1	ea	15,000.00	\$15,000	\$3,750	\$18,750		2
	Enhance gym sound system	1	ea	2,000.00	\$2,000	\$500	\$2,500		2
	Digital Signage	4	ea	2,800.00	\$11,200	\$2,800	\$14,000		2
Furniture & Furnishings									
	Replacement furniture & furnishings	295,752	ea	1.75	\$517,600	\$62,112	\$579,712	classroom desks and chairs	2
	Replacement equipment	1	allo	50,000.00	\$50,000	\$6,000	\$56,000	athletics	2
F, F, & E Subtotal:					\$881,500			\$1,028,087	

TOTAL DIRECT COSTS: \$11,266,455 \$13,804,448

Project Contingency: \$1,126,646
 General Conditions: \$198,018
 CM Fee / Reimbursables: \$606,665
 A/E Fee / Reimbursables: \$606,665

TOTAL PROJECT COSTS: \$13,804,448

\$13,804,448 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Midland Schools - Administration Office
 600 E. Carpenter St., Midland MI, 48640
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: N/A enrollment: N/A
 Year Built: unknown
 Building Size: 27,558 capacity: N/A
 Site Size: x

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
ARCHITECTURAL WORK									
<u>Interior Construction</u>									
	Renovations for Head End relocation	12,000	sf	25.00	\$300,000	\$75,000	\$375,000	for data center	2
Architectural Work Subtotal:					\$300,000			\$375,000	
MECHANICAL WORK									
<u>H.V.A.C.</u>									
	Replace Boiler/pumps	2	ea	100,000.00	\$200,000	\$50,000	\$250,000		2
	Replace indoor Air Handling Units	2	ea	30,000.00	\$60,000	\$15,000	\$75,000		2
	Replace 20 ton Condensing Units	2	ea	20,000.00	\$40,000	\$10,000	\$50,000		2
	Add AC to Tech Closet	1	ea	30,000.00	\$30,000	\$7,500	\$37,500	For relocated data center	2
	Replace Steam Humidifiers	2	ea	8,000.00	\$16,000	\$4,000	\$20,000		2
	Replace Electric Cabinet Unit Heaters	4	ea	5,000.00	\$20,000	\$5,000	\$25,000	new Hot Water CUH	2
	Replace dual duct boxes w/VAV	36	ea	4,000.00	\$144,000	\$36,000	\$180,000		2
	Replace Exhaust Fans	3	ea	4,000.00	\$12,000	\$3,000	\$15,000		2
<u>Temperature Controls</u>									
	Replace all pneumatic controls with Digital	10,000	SF	2.25	\$22,500	\$5,625	\$28,125		2
Mechanical Work Subtotal:					\$544,500			\$680,625	
ELECTRICAL WORK									
<u>Electrical-Power</u>									
	Add emergency generator	1	ls	88,000.00	\$88,000	\$22,000	\$110,000	for data center	2
	Add electrical to support technology	1	allo	15,000.00	\$15,000	\$3,750	\$18,750	Includes electrical related to moving data c	2
<u>Lighting</u>									
	Upgrade Site Lighting	1	ls	84,000.00	\$84,000	\$21,000	\$105,000		2
	Upgrade Exterior building mounted Lighting	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		2
	Add Exterior Emergency Egress Lighting	1	ls	2,500.00	\$2,500	\$625	\$3,125		2
	Add Occupancy Sensors	1	ls	7,000.00	\$7,000	\$1,750	\$8,750		2
	Upgrade Lighting Throughout Building	27,558	sf	6.00	\$165,300	\$41,325	\$206,625		2
	Relocate MDF Room	1	ls	10,000.00	\$10,000	\$2,500	\$12,500		2
	Replace Bus Block Heater System	1	ls	30,000.00	\$30,000	\$7,500	\$37,500		2
Electrical Work Subtotal:					\$416,800			\$521,000	
TECHNOLOGY INFRASTRUCTURE									
<u>Cabling Infrastructure</u>									
	Remove Category 5 and/or supporting legacy cabling	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
	Replace telecommunication rooms / relocate data center	1	ea	15,000.00	\$15,000	\$3,750	\$18,750	Relocate data center	2
	Replace voice/data structured cabling	254	ea	180.00	\$45,630	\$11,408	\$57,038		2
	Allowance for cabling to support series 1 needs	1	allo	2,000.00	\$2,000	\$500	\$2,500		1
<u>Network / Wireless / Phone</u>									
	Replace network infr. - building/district core	1	ea	100,000.00	\$100,000	\$25,000	\$125,000		2
	Replace network infr. - edge switches	10	ea	4,200.00	\$42,000	\$10,500	\$52,500	Based on existing plus 1 per closet growth	2
	Replace UPS in each telecommunication room	3	ea	3,000.00	\$9,000	\$2,250	\$11,250		2
	Network infrastructure for Series 1 needs	1	ls	37,750.00	\$37,750	\$9,438	\$47,188		1
	Replace wireless infrastructure	21	ea	950.00	\$19,950	\$4,988	\$24,938	Includes 2 for Juvenile Center	2
	Replace phone system	1	ls	150,000.00	\$150,000	\$37,500	\$187,500		2
	Replace district servers	1	ls	350,000.00	\$350,000	\$87,500	\$437,500		1
	Refresh/expand servers/management tools series 2	1	allo	175,000.00	\$175,000	\$43,750	\$218,750		2
<u>Clock System</u>									
	Replace clock system	1	ls	15,000.00	\$15,000	\$3,750	\$18,750		1
<u>Security</u>									
	Video surveillance	1	ls	85,000.00	\$85,000	\$21,250	\$106,250	Includes central servers	1
	Expand access control	1	ls	9,500.00	\$9,500	\$2,375	\$11,875		1
	Add intrusion detection	1	ls	8,000.00	\$8,000	\$2,000	\$10,000	Not in bond scope	1
	Install district-wide PA system	1	ls	55,000.00	\$55,000	\$13,750	\$68,750		1
Technology Infrastructure Subtotal:					\$1,123,830			\$1,405,748	
Remodeling Subtotal:					\$2,385,130				

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: 7/8/2014
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Midland Schools - Administration Office	Year Built: unknown	
600 E. Carpenter St., Midland MI, 48640	Building Size: 27,558	capacity: N/A
Building Project Work List	Site Size: x	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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SITE WORK

Site Infrastructure

Replace hand rails on stairs	1	allo	10,000.00	\$10,000	\$2,500	\$12,500		2
Replace fencing	1	allo	12,000.00	\$12,000	\$3,000	\$15,000		2

Site Work Subtotal:				\$22,000			\$27,500	
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NON-INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	60	ea	1,000.00	\$60,000	\$15,000	\$75,000	Estimate. Includes Juvenile staff	1
Mobile devices for teachers/staff	60	ea	650.00	\$38,880	\$9,720	\$48,599		1
Technology equipment - Series 2	1	ls	97,692.00	\$97,692	\$9,769	\$107,461		2
Technology equipment - Series 3	1	ls	54,391.00	\$54,391	\$5,439	\$59,830		3

Technology Equipment subtotal:				\$250,963			\$290,891	
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FURNITURE, FURNISHINGS, EQUIPMENT

Technology - Copiers/Printers/POS

Replace BW printers	4	ea	600.00	\$2,400	\$600	\$3,000	Includes Juvenile & Post-Secondary Progr	1
Replace color printers	1	ls	1,350.00	\$1,350	\$338	\$1,688	Includes Juvenile & Post-Secondary Progr	1
Replace BW MFP printers	7	ea	7,500.00	\$52,500	\$13,125	\$65,625	Includes Juvenile & Post-Secondary Progr	1
Replace color MFP printers	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		1

Technology - Audiovisual

Conference room / IEP displays	7	ls	2,500.00	\$17,500	\$4,375	\$21,875		1
Digital Signage	1	ls	35,000.00	\$35,000	\$8,750	\$43,750	Includes central servers	1

Furniture & Furnishings

Replacement furniture & furnishings	1	allo	25,000.00	\$25,000	\$3,000	\$28,000	office desks and chairs	2
Replacement equipment	1	allo	5,000.00	\$5,000	\$600	\$5,600	custodial	2

F, F, & E Subtotal:				\$148,750			\$182,038	
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TOTAL DIRECT COSTS:	\$2,806,843	\$3,482,801
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Project Contingency:	\$280,684
General Conditions:	\$53,095
CM Fee / Reimbursables:	\$170,609
A/E Fee / Reimbursables:	\$170,609

TOTAL PROJECT COSTS:	\$3,481,841
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\$3,481,841 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: 7/8/2014
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Transportation & Maintenance Building	Year Built: unknown	
410 E. Hines St., Midland, MI	Building Size: 34,440	capacity: N/A
Building Project Work List	Site Size: x	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

Building Envelope

Replace roof system - partial	10,000	sf	9.00	\$90,000	\$22,500	\$112,500	warehouse area	2
Architectural Work Subtotal:				\$90,000			\$112,500	

MECHANICAL WORK

H.V.A.C.

Replace Boiler/pumps	1	ea	100,000.00	\$100,000	\$25,000	\$125,000		2
Replace Office Heating & Venting Units	1	ea	20,000.00	\$20,000	\$5,000	\$25,000	new 5 Ton RTU	2
Replace Unit Heaters (gas fired)	5	ea	5,000.00	\$25,000	\$6,250	\$31,250		2
Mechanical Work Subtotal:				\$145,000			\$181,250	

ELECTRICAL WORK

Electrical-Power

Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
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Lighting

Upgrade Exterior building mounted Lighting	1	ls	5,600.00	\$5,600	\$1,400	\$7,000		2
Add Exterior Emergency Egress Lighting	1	ls	4,800.00	\$4,800	\$1,200	\$6,000		2
Add Occupancy Sensors	1	ls	4,000.00	\$4,000	\$1,000	\$5,000		2
Upgrade Existing T12 Lighting	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		2
Electrical Work Subtotal:				\$59,400			\$74,250	

TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

Remove Category 5 and/or supporting legacy cabling	1	allo	1,000.00	\$1,000	\$250	\$1,250		1
Additional voice/data structured cabling	1	allo	1,500.00	\$1,500	\$375	\$1,875		1
Allowance for cabling to support series 2 needs	1	allo	1,500.00	\$1,500	\$375	\$1,875		2

Network / Wireless / Phone

Replace network infr. - building core	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		2
Replace network infr. - edge switches	2	ea	4,200.00	\$8,400	\$2,100	\$10,500	Based on existing plus 1 per closet growth	2
Replace UPS in each telecommunication room	1	ea	2,000.00	\$2,000	\$500	\$2,500		2
Network infrastructure for Series 1 needs	1	ls	5,100.00	\$5,100	\$1,275	\$6,375		1
Replace phone system	1	ls	7,500.00	\$7,500	\$1,875	\$9,375		2

Security

Video surveillance	1	ls	12,000.00	\$12,000	\$3,000	\$15,000		1
Expand access control	1	ls	5,000.00	\$5,000	\$1,250	\$6,250		1
Install district-wide PA system	1	ls	10,000.00	\$10,000	\$2,500	\$12,500		1
Technology Infrastructure Subtotal:				\$64,000			\$80,000	

Remodeling Subtotal:	\$358,400
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SITE WORK

Site Paving

Repave parking and drives	10	ksf	2,500.00	\$25,000	\$6,250	\$31,250		2
Site Work Subtotal:				\$25,000			\$31,250	

NON-INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

Replace teacher/staff laptops	6	ea	1,000.00	\$6,000	\$1,500	\$7,500		1
Mobile devices for teachers/staff	6	ea	650.00	\$3,900	\$975	\$4,875		1
Technology equipment - Series 2	1	ls	9,900.00	\$9,900	\$990	\$10,890		2
Technology equipment - Series 3	1	ls	9,900.00	\$9,900	\$990	\$10,890		3
Technology Equipment subtotal:				\$29,700			\$34,155	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: 7/8/2014
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Transportation & Maintenance Building	Year Built: unknown	
410 E. Hines St., Midland, MI	Building Size: 34,440	capacity: N/A
Building Project Work List	Site Size: x	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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FURNITURE, FURNISHINGS, EQUIPMENT

<u>Technology - Copiers/Printers/POS</u>									
	Replace BW printers	2	ea	600.00	\$1,200	\$300	\$1,500		1
	Replace color printers	1	ls	1,350.00	\$1,350	\$338	\$1,688		1
	Replace BW MFP printers	1	ea	7,500.00	\$7,500	\$1,875	\$9,375		1

<u>Technology - Audiovisual</u>									
	Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1

<u>Furniture & Furnishings</u>									
	Bus Replacement - Series 1	19	ea	85,000.00	\$1,615,000	\$193,800	\$1,808,800		1
	Bus Replacement - Series 2	11	ea	90,000.00	\$990,000	\$118,800	\$1,108,800		2
	Bus Replacement - Series 3	26	sf	95,000.00	\$2,470,000	\$296,400	\$2,766,400		3

F, F, & E Subtotal:					\$5,087,850		\$5,700,063		
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TOTAL DIRECT COSTS:					\$5,500,950		\$6,213,468		
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Project Contingency:	\$550,095
General Conditions:	\$109,623
CM Fee / Reimbursables:	\$26,400
A/E Fee / Reimbursables:	\$26,400

TOTAL PROJECT COSTS:	\$6,213,468
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\$6,213,468 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Grounds Building
 417 E. Hines St., Midland, MI
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: N/A enrollment: N/A
 Year Built: unknown
 Building Size: 7,700 capacity: N/A
 Site Size: x

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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MECHANICAL WORK

H.V.A.C.

	Replace Unit Heaters (gas fired)	4	ea	5,000.00	\$20,000	\$5,000	\$25,000		2
	Replace Radiant Heaters (gas)	2	ea	5,000.00	\$10,000	\$2,500	\$12,500		2
Mechanical Work Subtotal:					\$30,000			\$37,500	

ELECTRICAL WORK

Electrical-Power

	Add electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
Lighting									
	Upgrade Exterior building mounted Lighting	1	ls	2,800.00	\$2,800	\$700	\$3,500		2
	Add Exterior Emergency Egress Lighting	1	ls	2,400.00	\$2,400	\$600	\$3,000		2
	Add Occupancy Sensors	1	LS	2,000.00	\$2,000	\$500	\$2,500		2
	Upgrade Existing T12 Lighting	1	ls	20,000.00	\$20,000	\$5,000	\$25,000		2
Electrical Work Subtotal:					\$32,200			\$40,250	

TECHNOLOGY INFRASTRUCTURE

Cabling Infrastructure

	Remove Category 5 and/or supporting legacy cabling	1	allo	1,000.00	\$1,000	\$250	\$1,250		1
	Additional voice/data structured cabling	1	allo	1,500.00	\$1,500	\$375	\$1,875		1
	Allowance for cabling to support series 2 needs	1	allo	1,500.00	\$1,500	\$375	\$1,875		2
Network / Wireless / Phone									
	Replace network infr. - building core	1	ea	10,000.00	\$10,000	\$2,500	\$12,500		2
	Replace network infr. - edge switches	1	ea	4,200.00	\$4,200	\$1,050	\$5,250		2
	Replace UPS in each telecommunication room	1	ea	2,000.00	\$2,000	\$500	\$2,500		2
	Network infrastructure for Series 1 needs	1	ls	4,050.00	\$4,050	\$1,013	\$5,063		1
	Replace phone system	1	ls	3,500.00	\$3,500	\$875	\$4,375		2
Security									
	Video surveillance	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
	Expand access control	1	ls	2,500.00	\$2,500	\$625	\$3,125		1
	Install district-wide PA system	1	ls	10,000.00	\$10,000	\$2,500	\$12,500		1
Technology Infrastructure Subtotal:					\$42,750			\$53,438	

Remodeling Subtotal: \$104,950

SITE WORK

Site Paving

	Repave parking and drives	10	ksf	2,500.00	\$25,000	\$6,250	\$31,250		2
Site Work Subtotal:					\$25,000			\$31,250	

NON-INSTRUCTIONAL TECHNOLOGY EQUIPMENT

Computers and Mobile Devices

	Replace teacher/staff laptops	6	ea	1,000.00	\$6,000	\$1,500	\$7,500		1
	Mobile devices for teachers/staff	6	ea	650.00	\$3,900	\$975	\$4,875		1
	Technology equipment - Series 2	1	ls	9,900.00	\$9,900	\$990	\$10,890		2
	Technology equipment - Series 3	1	ls	9,900.00	\$9,900	\$990	\$10,890		3
Technology Equipment subtotal:					\$29,700			\$34,155	

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Grounds Building
 417 E. Hines St., Midland, MI
Building Project Work List

Date: 10/1/2014 site visit: 7/8/2014
 Grades: N/A enrollment: N/A
 Year Built: unknown
 Building Size: 7,700 capacity: N/A
 Site Size: x

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
FURNITURE, FURNISHINGS, EQUIPMENT									
<u>Technology - Copiers/Printers/POS</u>									
	Replace color printers	1	ls	1,350.00	\$1,350	\$338	\$1,688		1
	Replace BW MFP printers	1	ea	7,500.00	\$7,500	\$1,875	\$9,375		1
<u>Technology - Audiovisual</u>									
	Digital Signage	1	ea	2,800.00	\$2,800	\$700	\$3,500		1
<u>Furniture & Furnishings</u>									
	Replacement equipment	1	allo	25,000.00	\$25,000	\$3,000	\$28,000	grounds, fork lift	1
F, F, & E Subtotal:					\$36,650		\$42,563		

TOTAL DIRECT COSTS: \$196,300 \$239,155

Project Contingency: \$19,630
 General Conditions: \$3,530
 CM Fee / Reimbursables: \$9,848
 A/E Fee / Reimbursables: \$9,848

TOTAL PROJECT COSTS: \$239,155 \$239,155 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Cook Elementary School	Year Built: 1948	
5500 Perrine, Midland, MI	Building Size: 38,996	capacity: 330
Building Project Work List	Site Size: 9,000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

<u>Environmental</u>										
	Abate asbestos for building demolition	38,996	sf	2.00	\$78,000	\$19,500	\$97,500			2
Architectural Work Subtotal:					\$78,000			\$97,500		
Remodeling Subtotal:					\$78,000					

SITE WORK

<u>Site Infrastructure</u>										
	Demo building & restoration	38,996	sf	6.00	\$234,000	\$58,500	\$292,500	including restoration		2
Site Work Subtotal:					\$234,000			\$292,500		

TOTAL DIRECT COSTS:					\$312,000			\$390,000		
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Project Contingency:	\$31,200
General Conditions:	\$6,240
CM Fee / Reimbursables:	\$20,280
A/E Fee / Reimbursables:	\$20,280

TOTAL PROJECT COSTS:	\$390,000
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\$390,000 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Mills Elementary School	Year Built: 1959	
3329 E. Baker Rd., Midland, MI	Building Size: 24,937	capacity: 135
Building Project Work List	Site Size: 20,000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

<u>Environmental</u>									
	Abate asbestos for building demolition	24,937	sf	2.00	\$49,900	\$12,475	\$62,375		2
Architectural Work Subtotal:					\$49,900			\$62,375	
Remodeling Subtotal:					\$49,900				

SITE WORK

<u>Site Infrastructure</u>									
	Demo building & restoration	24,937	sf	6.00	\$149,600	\$37,400	\$187,000	including restoration	2
Site Work Subtotal:					\$149,600			\$187,000	

TOTAL DIRECT COSTS:					\$199,500			\$249,375	
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Project Contingency:	\$19,950
General Conditions:	\$3,990
CM Fee / Reimbursables:	\$12,968
A/E Fee / Reimbursables:	\$12,968

TOTAL PROJECT COSTS:	\$249,375
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\$249,375 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS
District Wide Facility Assessment
Parkdale Elementary School
 1609 Eastlawn Dr., Midland, MI
Building Project Work List

Date: 10/1/2014 site visit: N/A
 Grades: N/A enrollment: N/A
 Year Built: 1955
 Building Size: 41,398 capacity: 310
 Site Size: 14.000

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

Environmental

	Abate asbestos for building demolition	41,398	sf	2.00	\$82,800	\$20,700	\$103,500		2
Architectural Work Subtotal:					\$82,800			\$103,500	
Remodeling Subtotal:					\$82,800				

SITE WORK

Site Infrastructure

	Demo building & restoration	41,398	sf	6.00	\$248,400	\$62,100	\$310,500	including restoration	2
Site Work Subtotal:					\$248,400			\$310,500	

TOTAL DIRECT COSTS: \$331,200 \$414,000

Project Contingency: \$33,120
 General Conditions: \$6,624
 CM Fee / Reimbursables: \$21,528
 A/E Fee / Reimbursables: \$21,528

TOTAL PROJECT COSTS: \$414,000

\$414,000 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: 6/30/2014
District Wide Facility Assessment	Grades: K-5	enrollment: x
Eastlawn Elementary School	Year Built: 1945	
115 Eastlawn Dr., Midland, MI 48640	Building Size: 50,710	capacity: x
Building Project Work List	Site Size: 8.000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

Environmental

Abate asbestos for building demolition	50,710	sf	2.00	\$101,400	\$25,350	\$126,750		2
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Architectural Work Subtotal:				\$101,400			\$126,750	
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Remodeling Subtotal:				\$101,400				
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SITE WORK

Site Infrastructure

Demo building & restoration	50,710	sf	6.00	\$304,300	\$76,075	\$380,375		2
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Site Work Subtotal:				\$304,300			\$380,375	
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TOTAL DIRECT COSTS:				\$405,700			\$507,125	
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Project Contingency:	\$40,570
General Conditions:	\$8,114
CM Fee / Reimbursables:	\$26,371
A/E Fee / Reimbursables:	\$26,371

TOTAL PROJECT COSTS:	\$507,125
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\$507,125 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
Franklin Center	Year Built: 1949	
2900 Dauer St., Midland, MI	Building Size: 16,396	capacity: N/A
Building Project Work List	Site Size: 5.000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

Environmental

Abate asbestos for building demolition	16,396	sf	2.00	\$32,800	\$8,200	\$41,000		2
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Architectural Work Subtotal: \$32,800 \$41,000

Remodeling Subtotal: \$32,800

SITE WORK

Site Infrastructure

Demo building & restoration	16,396	sf	6.00	\$98,400	\$24,600	\$123,000	including restoration	2
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Site Work Subtotal: \$98,400 \$123,000

TOTAL DIRECT COSTS: \$131,200 \$164,000

Project Contingency: \$13,120
 General Conditions: \$2,624
 CM Fee / Reimbursables: \$8,528
 A/E Fee / Reimbursables: \$8,528

TOTAL PROJECT COSTS: \$164,000

\$164,000 check #

Notes:
Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: N/A
District Wide Facility Assessment	Grades: N/A	enrollment: N/A
State Street Building	Year Built: unknown	
815 State St, Midland, MI	Building Size: 18,790	capacity: N/A
Building Project Work List	Site Size:	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes / Subtotals	Series
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ARCHITECTURAL WORK

Environmental

Abate asbestos for building demolition	18,790	sf	2.00	\$37,600	\$9,400	\$47,000		2
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Architectural Work Subtotal: \$37,600 \$47,000

Remodeling Subtotal: \$37,600

SITE WORK

Site Infrastructure

Demo building & restoration	18,790	sf	6.00	\$112,700	\$28,175	\$140,875	including restoration	2
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Site Work Subtotal: \$112,700 \$140,875

TOTAL DIRECT COSTS: \$150,300 \$187,875

Project Contingency: \$15,030
 General Conditions: \$3,006
 CM Fee / Reimbursables: \$9,770
 A/E Fee / Reimbursables: \$9,770

TOTAL PROJECT COSTS: \$187,875 \$187,875 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees

= Completed Bond Project

MIDLAND PUBLIC SCHOOLS	Date: 10/1/2014	site visit: 6/30/2014
District Wide Facility Assessment	Grades: K-5	enrollment: x
Carpenter Elementary School	Year Built: 1926	
1407 W. Carpenter St., Midland, MI 48640	Building Size: 37,934	capacity: x
Building Project Work List	Site Size: 5.000	

Category	Description	Qty	Unit	Unit Cost	Direct Cost	Indirect Costs	Total Estimate	Notes	Series
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MECHANICAL WORK

<u>H.V.A.C.</u>									
	Replace Mechanical Equipment	1	ls	40,000.00	\$40,000	\$10,000	\$50,000		1
Mechanical Work Subtotal:					\$40,000			\$50,000	

ELECTRICAL WORK

<u>Electrical-Power</u>									
	Electrical to support technology	1	allo	5,000.00	\$5,000	\$1,250	\$6,250		1
Electrical Work Subtotal:					\$5,000			\$6,250	

Remodeling Subtotal:					\$45,000				
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PROJECT TOTAL: \$45,000 \$56,250

Project Contingency	\$4,500
General Conditions	\$900
CM Fee / Reimbursables	\$2,925
A/E Fee / Reimbursables	\$2,925

TOTAL PROJECT COSTS:	\$56,250
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\$56,250 check #

Notes:

Indirect costs include; contingency, general conditions & professional fees