# 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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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** | |

**MIDLAND PUBLIC SCHOOLS** — Date: 10/1/2014 — site visit: 6/30/2014

**District Wide Facility Assessment** — Grades: K-5 — enrollment: x

**Adams Elementary School** — Year Built: 1962

1005 Adams St., Midland, MI 48642 — Building Size: 44,725 — capacity: x

**Building Project Work List** — Site Size: 16.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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 | Owner | 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** | | | | | | | | |
| **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' w | 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 a | 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 doo | 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 | Owner | 2 |
| **Site Work Subtotal:** | | | | **$228,500** | | | **$285,625** | |
| **INSTRUCTIONAL TECHNOLOGY EQUIPMENT** | | | | | | | | |
| **Computers and Mobile Devices** | | | | | | | | |
| Replace teacher/staff laptops | 27 | ea | 1,000.00 | $27,000 | $6,750 | $33,750 | Owner | 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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 325,000.00 | $325,000 | $32,500 | $357,500 | Owner | 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** | |

**MIDLAND PUBLIC SCHOOLS** Date: 10/1/2014 site visit: 6/30/2014

**District Wide Facility Assessment** Grades: K-5 enrollment: x

**Adams Elementary School** Year Built: 1962

1005 Adams St., Midland, MI 48642 Building Size: 44,725 capacity: x

**Building Project Work List** Site Size: 16.000

| 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 | 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* (STEM, M.C., Office) | 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** | |

| | | |
|---|---|---|
| **TOTAL DIRECT COSTS:** | **$5,589,050** | **$6,865,704** |
| 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** | $6,865,704 check # |

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

# 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** | | | | | | | | |
| **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 | 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 |
| **Building Envelope** | | | | | | | | |
| Replace roof system | 41,407 | sf | 9.00 | $372,700 | $93,175 | $465,875 | Roof ponding above eastern classroom w | 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 |
| **Demolition** | | | | | | | | |
| Demo pedestals | 10 | ea | 1,000.00 | $10,000 | $2,500 | $12,500 | Masonry pedestals in media center | 1 |
| **Interior Construction** | | | | | | | | |
| 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/me | 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** | | | | | | | | |
| **Plumbing** | | | | | | | | |
| 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 |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | |

# 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 |
|---|---|---|---|---|---|---|---|---|
| **ELECTRICAL WORK** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| Add electrical to support technology | 1 | allo | 5,000.00 | $5,000 | $1,250 | $6,250 | | 1 |
| **Lighting** | | | | | | | | |
| 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** | | | | | | | | |
| **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 | 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 | Owner | 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:** | | | | **$232,850** | | | **$291,063** | |
| **Remodeling Subtotal:** | | | | **$2,730,050** | | | | |
| **SITE WORK** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| 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 |
| **Site Paving** | | | | | | | | |
| 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 |
| **Playfields (playground/athletics)** | | | | | | | | |
| Improve playground / playfield area | 1 | ls | 40,000.00 | $40,000 | $10,000 | $50,000 | New play area needed - Owner | 2 |
| **Site Work Subtotal:** | | | | **$466,000** | | | **$582,500** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **INSTRUCTIONAL TECHNOLOGY EQUIPMENT** | | | | | | | | |
| **Computers and Mobile Devices** | | | | | | | | |
| Replace teacher/staff laptops | 29 | ea | 1,000.00 | $29,000 | $7,250 | $36,250 | Owner | 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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 332,800.00 | $332,800 | $33,280 | $366,080 | Owner | 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** | |
| **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* (STEM, M.C., Office) | 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** | |
| **TOTAL DIRECT COSTS:** | | | | **$6,411,650** | | | **$7,892,068** | |

| | |
|---|---|
| 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** |

$7,892,068 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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 |
| **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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 | Owner | 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:** | | | | **$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 |
| Repave 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 |
| **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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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* (STEM, M.C., Office) | 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** | |

| | | |
|---|---|---|
| **TOTAL DIRECT COSTS:** | **$5,937,550** | **$7,293,766** |
| 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** | $7,293,766 check # |

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

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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 |
| **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 |
| **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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **TECHNOLOGY INFRASTRUCTURE** | | | | | | | | |
| **Cabling Infrastructure** | | | | | | | | |
| 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 |
| **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 | 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 | Owner | 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:** | | | | **$209,900** | | | **$262,375** | |
| **Remodeling Subtotal:** | | | | **$3,193,000** | | | | |
| **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 | 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 |
| **Site Paving** | | | | | | | | |
| Replace site concrete | 1 | allo | 12,000.00 | $12,000 | $3,000 | $15,000 | Install sidewalk connecting to neighborhoc | 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 |
| **Playfields (playground/athletics)** | | | | | | | | |
| Improve playground / playfield area | 1 | ls | 40,000.00 | $40,000 | $10,000 | $50,000 | Owner | 2 |
| **Site Work Subtotal:** | | | | **$405,500** | | | **$506,875** | |
| **INSTRUCTIONAL TECHNOLOGY EQUIPMENT** | | | | | | | | |
| **Computers and Mobile Devices** | | | | | | | | |
| Replace teacher/staff laptops | 35 | ea | 1,000.00 | $35,000 | $8,750 | $43,750 | Owner | 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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 384,800.00 | $384,800 | $38,480 | $423,280 | Owner | 3 |
| **Classroom Technologies** | | | | | | | | |
| 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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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* (STEM, M.C., Office) | 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** | |

| | | |
|---|---|---|
| **TOTAL DIRECT COSTS:** | **$7,023,200** | **$8,640,746** |
| 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 # |

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

# 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 |
|---|---|---|---|---|---|---|---|---|
| **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 syster | 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 - Owner | 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 Heating & 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 |
| **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 |
| **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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 | Owner | 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:** | | | | **$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 sys | 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, addres | 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 | Owner | 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 | Owner | 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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 436,800.00 | $436,800 | $43,680 | $480,480 | Owner | 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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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* (STEM, M.C., Office) | 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** | |

| | | |
|---|---|---|
| **TOTAL DIRECT COSTS:** | **$6,524,650** | **$7,998,556** |
| 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** | $7,998,556 check # |

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

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **Demolition** | | | | | | | | |
| Demo classroom portion of building | 7,500 | sf | 6.00 | $45,000 | $11,250 | $56,250 | inc w/ central | 1 |
| **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 |
| **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 demoli | 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 demoli | 1 |
| Network infrastructure for Series 3 needs | 1 | ls | 25,000.00 | $25,000 | $6,250 | $31,250 | Owner | 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 | Owner | 1 |
| **Clock System** | | | | | | | | |
| Clock system | 1 | ls | 27,000.00 | $27,000 | $6,750 | $33,750 | | 1 |
| **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 |
| **Playfields (playground/athletics)** | | | | | | | | |
| Improve playground / playfield area | 1 | ls | 75,000.00 | $75,000 | $18,750 | $93,750 | | 1 |

**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 |
|---|---|---|---|---|---|---|---|---|
| **Site Work Subtotal:** | | | | **$515,200** | | | **$644,000** | |

# 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 |
|---|---|---|---|---|---|---|---|---|
| **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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 525,850.00 | $525,850 | $52,585 | $578,435 | Owner | 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** | |
| **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** | |
| **TOTAL DIRECT COSTS:** | | | | **$17,489,033** | | | **$21,638,759** | |

| | |
|---|---|
| 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** |

$21,638,759 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

# MIDLAND PUBLIC SCHOOLS

**District Wide Facility Assessment**

## Central Auditorium (Performing Arts Center)

305 E. Reardon St., Midland, MI

**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: 1937
Building Size: 125,135 capacity: 765
Site Size: 20.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **NEW CONSTRUCTION** | | | | | | | | |
| **Addition** | | | | | | | | |
| 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** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos for building demolition | 49,000 | sf | 2.00 | $98,000 | $24,500 | $122,500 | | 1 |
| **Demolition** | | | | | | | | |
| Demo classroom portion of building | 25,000 | sf | 6.00 | $150,000 | $37,500 | $187,500 | except gym/café | 1 |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| 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** | | | | | | | | |
| **Cabling Infrastructure** | | | | | | | | |
| 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 demoli | 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 |
| **Network / Wireless / Phone** | | | | | | | | |
| 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 demoli | 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 |
| **Clock System** | | | | | | | | |
| Replace clock system | 1 | ls | 5,000.00 | $5,000 | $1,250 | $6,250 | Assumes rest in new elem costs | 1 |
| **Security** | | | | | | | | |
| 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** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| 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 |
| **Site Paving** | | | | | | | | |
| 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** | |

# MIDLAND PUBLIC SCHOOLS

**District Wide Facility Assessment**

## Central Auditorium (Performing Arts Center)

305 E. Reardon St., Midland, MI

**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: 1937
Building Size: 125,135 capacity: 765
Site Size: 20.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **INSTRUCTIONAL TECHNOLOGY EQUIPMENT** | | | | | | | | |
| **Computers and Mobile Devices** | | | | | | | | |
| 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 | Owner | 2 |
| Technology equipment - Series 3 | 1 | ls | 24,750.00 | $24,750 | $2,475 | $27,225 | Owner | 3 |
| **Technology Equipment subtotal:** | | | | **$74,250** | | | **$85,388** | |
| **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 color MFP printers | 1 | ea | 10,000.00 | $10,000 | $2,500 | $12,500 | | 1 |
| **Technology - Audiovisual** | | | | | | | | |
| 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 |
| **Furniture & Furnishings** | | | | | | | | |
| 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*

**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** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos floor tile | 35,000 | sf | 2.00 | $70,000 | $17,500 | $87,500 | in classrooms | 2 |
| **Building Envelope** | | | | | | | | |
| 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 |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **Plumbing** | | | | | | | | |
| 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 |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| Add electrical to support technology | 1 | allo | 10,000.00 | $10,000 | $2,500 | $12,500 | | 2 |
| **Lighting** | | | | | | | | |
| 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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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** | |
| **TOTAL DIRECT COSTS:** | | | | **$5,467,525** | | | **$6,779,202** | |

| | |
|---|---|
| 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** $6,738,502 check #

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

**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** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos floor tile | 25 | ksf | 1,500.00 | $37,500 | $9,375 | $46,875 | classrooms, theater | 2 |
| **Building Envelope** | | | | | | | | |
| 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 pealing/leaking | 2 |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **Plumbing** | | | | | | | | |
| New Pool heater | 1 | ea | 60,000.00 | $60,000 | $15,000 | $75,000 | (eliminate need to run boilers) | 2 |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| Add electrical to support technology | 1 | allo | 10,000.00 | $10,000 | $2,500 | $12,500 | | 2 |
| **Lighting** | | | | | | | | |
| 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** | |

# 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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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 serie | 1 |
| 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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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** | |
| **TOTAL DIRECT COSTS:** | | | | **$6,283,425** | | | **$7,766,709** | |

| | |
|---|---|
| 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** $7,727,209 check #

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

**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 20
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** | | | | | | | | |
| **Addition** | | | | | | | | |
| 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** | | | | | | | | |
| **Building Envelope** | | | | | | | | |
| 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 |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **Plumbing** | | | | | | | | |
| 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 | 1 | ea | 15,000.00 | $15,000 | $3,750 | $18,750 | | 2 |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| Add electrical to support technology | 1 | allo | 10,000.00 | $10,000 | $2,500 | $12,500 | | 2 |
| **Lighting** | | | | | | | | |
| 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** | |

**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 20
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** | | | | | | | | |
| **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 | 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 |
| **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 | 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 |
| **Clock System** | | | | | | | | |
| Replace clock system | 1 | ls | 30,000.00 | $30,000 | $7,500 | $37,500 | | 2 |
| **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:** | | | | **$884,575** | | | **$1,105,719** | |
| **Remodeling Subtotal:** | | | | **$5,082,275** | | | | |
| **SITE WORK** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| 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 |
| **Site Paving** | | | | | | | | |
| Replace site concrete | 48,200 | SF | 6.00 | $289,200 | $72,300 | $361,500 | Remove concrete, re-grade, eliminate ste | 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 remova | 2 |
| **Playfields (playground/athletics)** | | | | | | | | |
| 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** | | | | | | | | |
| **Computers and Mobile Devices** | | | | | | | | |
| 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 beginni | 3 |
| **Classroom Technologies** | | | | | | | | |
| 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** | |

**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 20
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 |
|---|---|---|---|---|---|---|---|---|
| **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*

# 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** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos floor tile | 10 | ksf | 1,500.00 | $15,000 | $3,750 | $18,750 | corridor | 2 |
| **Building Envelope** | | | | | | | | |
| Add downspout and gutters | 1 | allo | 5,000.00 | $5,000 | $1,250 | $6,250 | Roof overflow causing concrete to heave | 2 |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **Plumbing** | | | | | | | | |
| 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 |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| Add electrical to support technology | 1 | allo | 10,000.00 | $10,000 | $2,500 | $12,500 | | 2 |
| **Lighting** | | | | | | | | |
| 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** | |

**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 |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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 beginni | 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** | |

**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*

# 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** | | | | | | | | |
| **Interior Construction** | | | | | | | | |
| 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** | | | | | | | | |
| **H.V.A.C.** | | | | | | | | |
| 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 |
| **Temperature Controls** | | | | | | | | |
| 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** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| 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 |
| **Lighting** | | | | | | | | |
| 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** | | | | | | | | |
| **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 | 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 |
| **Network / Wireless / Phone** | | | | | | | | |
| 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 |
| **Clock System** | | | | | | | | |
| Replace clock system | 1 | ls | 15,000.00 | $15,000 | $3,750 | $18,750 | | 1 |
| **Security** | | | | | | | | |
| 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 | $10,960 | 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** | | | | |

# 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 |
|---|---|---|---|---|---|---|---|---|
| **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** | |
| **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** | |
| **FURNITURE, FURNISHINGS, EQUIPMENT** | | | | | | | | |
| **Technology - Copiers/Printers/POS** | | | | | | | | |
| Replace BW printers | 4 | ea | 600.00 | $2,400 | $600 | $3,000 | Includes Juvenile & Post-Secondary Prog | 1 |
| Replace color printers | 1 | ls | 1,350.00 | $1,350 | $338 | $1,688 | Includes Juvenile & Post-Secondary Prog | 1 |
| Replace BW MFP printers | 7 | ea | 7,500.00 | $52,500 | $13,125 | $65,625 | Includes Juvenile & Post-Secondary Prog | 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** | |
| **TOTAL DIRECT COSTS:** | | | | **$2,806,843** | | | **$3,482,801** | |

| | |
|---|---|
| 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** |

$3,481,841 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

# MIDLAND PUBLIC SCHOOLS

**District Wide Facility Assessment**

## Transportation & Maintenance Building

410 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: 34,440 capacity: N/A
Site Size: x

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **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 |
| **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** | | | | |
| **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** | |

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Transportation & Maintenance Building**
410 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: 34,440 capacity: N/A
Site Size: x

| 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 | 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 |
| **Technology - Audiovisual** | | | | | | | | |
| Digital Signage | 1 | ea | 2,800.00 | $2,800 | $700 | $3,500 | | 1 |
| **Furniture & Furnishings** | | | | | | | | |
| 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** | |
| **TOTAL DIRECT COSTS:** | | | | **$5,500,950** | | | **$6,213,468** | |

| | |
|---|---|
| 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** |

$6,213,468 check #

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

# 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 |
|---|---|---|---|---|---|---|---|---|
| **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** | |

**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** | | | | | | | | |
| **Technology - Copiers/Printers/POS** | | | | | | | | |
| 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 |
| **Technology - Audiovisual** | | | | | | | | |
| Digital Signage | 1 | ea | 2,800.00 | $2,800 | $700 | $3,500 | | 1 |
| **Furniture & Furnishings** | | | | | | | | |
| 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*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Cook Elementary School**
5500 Perrine, Midland, MI
**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: 1948
Building Size: 38,996 capacity: 330
Site Size: 9.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **ARCHITECTURAL WORK** | | | | | | | | |
| **Environmental** | | | | | | | | |
| 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** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| 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** | |

| | |
|---|---|
| Project Contingency: | $31,200 |
| General Conditions: | $6,240 |
| CM Fee / Reimbursables: | $20,280 |
| A/E Fee / Reimbursables: | $20,280 |
| **TOTAL PROJECT COSTS:** | **$390,000** |

$390,000 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Mills Elementary School**
3329 E. Baker Rd., Midland, MI
**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: 1959
Building Size: 24,937 capacity: 135
Site Size: 20.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **ARCHITECTURAL WORK** | | | | | | | | |
| **Environmental** | | | | | | | | |
| 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** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| 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** | |

| | |
|---|---|
| Project Contingency: | $19,950 |
| General Conditions: | $3,990 |
| CM Fee / Reimbursables: | $12,968 |
| A/E Fee / Reimbursables: | $12,968 |
| **TOTAL PROJECT COSTS:** | **$249,375** |

$249,375 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

**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 |
|---|---|---|---|---|---|---|---|---|
| **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*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Eastlawn Elementary School**
115 Eastlawn Dr., Midland, MI 48640
**Building Project Work List**

Date: 10/1/2014 site visit: 6/30/2014
Grades: K-5 enrollment: x
Year Built: 1945
Building Size: 50,710 capacity: x
Site Size: 8.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **ARCHITECTURAL WORK** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos for building demolition | 50,710 | sf | 2.00 | $101,400 | $25,350 | $126,750 | | 2 |
| **Architectural Work Subtotal:** | | | | **$101,400** | | | **$126,750** | |
| **Remodeling Subtotal:** | | | | **$101,400** | | | | |
| **SITE WORK** | | | | | | | | |
| **Site Infrastructure** | | | | | | | | |
| Demo building & restoration | 50,710 | sf | 6.00 | $304,300 | $76,075 | $380,375 | | 2 |
| **Site Work Subtotal:** | | | | **$304,300** | | | **$380,375** | |
| **TOTAL DIRECT COSTS:** | | | | **$405,700** | | | **$507,125** | |

| | |
|---|---|
| Project Contingency: | $40,570 |
| General Conditions: | $8,114 |
| CM Fee / Reimbursables: | $26,371 |
| A/E Fee / Reimbursables: | $26,371 |
| **TOTAL PROJECT COSTS:** | **$507,125** |

$507,125 check #

***Notes:***

*Indirect costs include; contingency, general conditions & professional fees*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Franklin Center**
2900 Dauer St., Midland, MI
**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: 1949
Building Size: 16,396 capacity: N/A
Site Size: 5.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **ARCHITECTURAL WORK** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos for building demolition | 16,396 | sf | 2.00 | $32,800 | $8,200 | $41,000 | | 2 |
| **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 |
| **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*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**State Street Building**
815 State St, Midland, MI
**Building Project Work List**

Date: 10/1/2014 site visit: N/A
Grades: N/A enrollment: N/A
Year Built: unknown
Building Size: 18,790 capacity: N/A
Site Size:

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes / Subtotals | Series |
|---|---|---|---|---|---|---|---|---|
| **ARCHITECTURAL WORK** | | | | | | | | |
| **Environmental** | | | | | | | | |
| Abate asbestos for building demolition | 18,790 | sf | 2.00 | $37,600 | $9,400 | $47,000 | | 2 |
| **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 |
| **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*

**MIDLAND PUBLIC SCHOOLS**
**District Wide Facility Assessment**
**Carpenter Elementary School**
1407 W. Carpenter St., Midland, MI 48640
**Building Project Work List**

Date: 10/1/2014 site visit: 6/30/2014
Grades: K-5 enrollment: x
Year Built: 1926
Building Size: 37,934 capacity: x
Site Size: 5.000

| Category / Description | Qty | Unit | Unit Cost | Direct Cost | Indirect Costs | Total Estimate | Notes | Series |
|---|---|---|---|---|---|---|---|---|
| **MECHANICAL WORK** | | | | | | | | |
| **H.V.A.C.** | | | | | | | | |
| Replace Mechanical Equipment | 1 | ls | 40,000.00 | $40,000 | $10,000 | $50,000 | | 1 |
| **Mechanical Work Subtotal:** | | | | **$40,000** | | **$50,000** | | |
| **ELECTRICAL WORK** | | | | | | | | |
| **Electrical-Power** | | | | | | | | |
| 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** | | | | |
| **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** |

$56,250 check #

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