

**Minooka Schools**  
**Grades 5 and 6**  
**Minooka, IL**



Program Estimate

July 28, 2017

DESCRIPTION	121,974	\$/sqft
01 Site Improvements/Demolition	3,478,364	28.52
02 Building Excavation	941,878	7.72
03 Foundations	1,154,389	9.46
04 Structure	2,637,987	21.63
05 Exterior Walls	3,879,908	31.81
06 Roofing & Moisture Protection	1,624,492	13.32
07 Miscellaneous Metals	187,250	1.54
08 Rough & Finish Carpentry	999,348	8.19
09 Subdivisions (Interior Partitions/Doors)	2,939,800	24.10
10 Interior Finishes	1,717,748	14.08
11 Specialties	548,612	4.50
12 Equipment	677,250	5.55
13 Special Construction	0	0.00
14 Conveying	220,000	1.80
15 Fire Protection	442,909	3.63
16 Plumbing	1,771,002	14.52
17 HVAC & Building Controls	4,200,090	34.43
18 Electrical and Lighting	3,025,489	24.80
19 Communications, AV & Security	610,411	5.00
20 General Requirements	609,870	5.00
<b>SUBTOTAL BUILDING CONSTRUCTION</b>		
	<b>31,666,797</b>	<b>259.62</b>
Escalation	4.0%	1,266,672
Contingency (Est/Design)	10.0%	3,293,347
Contingency (Construction)	3.0%	1,086,804
Construction Manager		3,200,000
Construction Manager Reimbursables		200,000
<b>TOTAL CONSTRUCTION</b>		
	<b>40,713,620</b>	<b>333.79</b>
<b>OTHER PROJECT COSTS</b>		
A/E Fees	6.0%	2,442,817
A/E Reimbursables		100,000
Permit Fees (If Required)		50,000
Soil Borings & CCDD (ECS)		30,000
Surveys		35,000
Materials Testing		100,000
Called Inspections		50,000
Environmental		100,000
Furniture & Fixtures		1,500,000
Building Technology, Entry Security, A/V / Data / Phone Equip.		700,000
Moving /Minor Temporary Facilities		50,000
Legal and Financial		25,000
Utility Fees and Consumption		150,000
Insurance, Builder's Risk, Bonds		50,000
<b>TOTAL OTHER COSTS</b>		
	<b>5,382,817</b>	
<b>TOTAL PROJECT COST</b>		
	<b>46,096,437</b>	<b>377.92</b>

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>A - Base Bid</b>					
		01 Site Improvements	121,974.00 gsf	28.52 /gsf	3,478,364
		02 Building Excavation	121,974.00 gsf	7.72 /gsf	941,878
		03 Foundations	121,974.00 gsf	9.46 /gsf	1,154,389
		04 Structure	121,974.00 gsf	21.63 /gsf	2,637,987
		05 Exterior Walls	121,974.00 gsf	31.81 /gsf	3,879,908
		06 Roofing & Moisture Protection	121,974.00 gsf	13.32 /gsf	1,624,492
		07 Miscellaneous Metals	121,974.00 gsf	1.54 /gsf	187,250
		08 Rough & Finish Carpentry	121,974.00 gsf	8.19 /gsf	999,348
		09 Interior Partitions / Doors	121,974.00 gsf	24.10 /gsf	2,939,800
		10 Interior Finishes	121,974.00 gsf	14.08 /gsf	1,717,748
		11 Specialties	121,974.00 gsf	4.50 /gsf	548,612
		12 Equipment	121,974.00 gsf	5.55 /gsf	677,250
		14 Conveying	121,974.00 gsf	1.80 /gsf	220,000
		15 Fire Protection	121,974.00 gsf	3.63 /gsf	442,909
		16 Plumbing	121,974.00 gsf	14.52 /gsf	1,771,002
		17 HVAC	121,974.00 gsf	34.43 /gsf	4,200,090
		18 Electrical and Lighting	121,974.00 gsf	24.80 /gsf	3,025,489
		19 Communications, AV, Security	121,974.00 gsf	5.00 /gsf	610,411
		20 General Requirements	121,974.00 gsf	5.00 /gsf	609,870
		<b>A - Base Bid</b>	<b>121,974.00</b>	<b>259.62</b>	<b>31,666,797</b>

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
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**A - Base Bid**

**01 Site Improvements**

**SITE PREPARATION**

Construction Fence	6,360.00 lf	8.00 /lf	50,880
Construction Fence Gate	8.00 ea	2,000.00 /ea	16,000
Chain Link Fence	2,385.00 lf	10.00 /lf	23,850
Temp Drive / Trailer / Laydown - 11000 sy	99,000.00 sf	2.00 /sf	198,000

**SITE PREPARATION** /gsf **288,730**

**SITE IMPROVEMENTS**

Parking Lot Pavement	95,962.00 sf	4.50 /sf	431,829
New Access Drive	39,852.00 sf	5.00 /sf	199,260
New Internal Bus Loop	80,873.00 sf	5.00 /sf	404,365
Auto Drive Pickup	29,783.00 sf	5.00 /sf	148,915
Reconfirure Existing Parking	49,272.00 sf	2.00 /sf	98,544
Reconfirure Existing Drive	19,024.00 sf	2.00 /sf	38,048
Bitum Path	9,930.00 sf	4.50 /sf	44,685
Concrete Sidewalks	56,607.00 sf	6.14 /sf	347,567
Concrete Pavement	1,650.00 sf	8.40 /sf	13,860
Concrete Curb	5,606.00 lf	25.00 /lf	140,150
Street Signage	1.00 ls	10,000.00 /ls	10,000
CM Allowance	1.00 alw	5,000.00 /alw	5,000
Demo Sidewalk	3,187.00 sf	1.00 /sf	3,187
Demo Pavement	14,876.00 sf	0.75 /sf	11,157
Demo Fire Hydrant	2.00 ea	500.00 /ea	1,000
Demo Curb and Gutter	646.00 lf	3.00 /lf	1,938
Demo Water Line	300.00 lf	12.00 /lf	3,600
Demo Storm Line	413.00 lf	12.00 /lf	4,956
Demo Concrete Trench	230.00 lf	3.00 /lf	690
Demo Track	23,752.00 sf	0.75 /sf	17,814
Demo Concrete Pads	2.00 ea	250.00 /ea	500
Demo BBall Hoops	3.00 ea	150.00 /ea	450
Landscaping	1.00 alw	160,000.00 /alw	160,000

**SITE IMPROVEMENTS** /gsf **2,087,515**

**SITE HVAC UTILITIES**

Connect to Existing Sanitary	1.00 ea	15,000.00 /ea	15,000
Connect to Existing Storm	1.00 ea	15,000.00 /ea	15,000
Pressure Connection for Water Line	2.00 ea	15,000.00 /ea	30,000
Fire Hydrants	5.00 ea	4,500.00 /ea	22,500
DI Pipe 6" Water	35.00 lf	71.00 /lf	2,485
8" PVC Water	3,383.00 lf	45.00 /lf	152,235
Valve Box	3.00 ea	3,000.00 /ea	9,000
10" PVC Sanitary	1,145.00 LF	60.00 /LF	68,700
Sewer Manhole	5.00 EA	4,000.00 /EA	20,000
Bore and Jack	40.00 lf	250.00 /lf	10,000
Storm Manhole	18.00 ea	4,000.00 /ea	72,000
CB / INLET	46.00 ea	3,000.00 /ea	138,000
FES	21.00 ea	500.00 /ea	10,500
Storm Piping - 15" RCP	720.00 lf	61.00 /lf	43,920
Storm Piping - 12" RCP	1,993.00 lf	57.00 /lf	113,601
Storm Piping - 18" RCP	1,522.00 lf	79.00 /lf	120,238
Storm Piping - 21" RCP	696.00 lf	85.00 /lf	59,160
Storm Piping - 24" RCP	696.00 lf	90.00 /lf	62,640
Storm Piping - 30" RCP	854.00 lf	110.00 /lf	93,940
Storm Piping - 10" PVC	720.00 lf	60.00 /lf	43,200

**SITE HVAC UTILITIES** /gsf **1,102,119**

**01 Site Improvements** **121,974.00 gsf** **28.52 /gsf** **3,478,364**

**02 Building Excavation**

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>FOUNDATIONS</b>					
		Excavate Footings	5,524.00 cy	20.00 /cy	110,480
		Backfill with Existing Earth	4,503.00 cy	20.00 /cy	90,060
		Gravel Base under Slab on Grade - 4"	1,063.00 cy	30.00 /cy	31,890
		<b>FOUNDATIONS</b>		<b>/gsf</b>	<b>232,430</b>
<b>SITE PREPARATION</b>					
		Cut topsoil / Store on Site	13,075.00 cy	8.00 /cy	104,600
		Site Cut / Fill / Store on Site	41,816.00 cy	8.00 /cy	334,528
		Excess Soil Haul Off	13,516.00 cy	20.00 /cy	270,320
		<b>SITE PREPARATION</b>		<b>/gsf</b>	<b>709,448</b>
		<b>02 Building Excavation</b>	<b>121,974.00 gsf</b>	<b>7.72 /gsf</b>	<b>941,878</b>
<b>03 Foundations</b>					
<b>FOUNDATIONS</b>					
		5" Slab on Grade	1,317.00 cy	250.00 /cy	329,250
		8" Slab on Grade	19.00 cy	250.00 /cy	4,750
		Footings	398.00 cy	388.00 /cy	154,424
		Foundation Wall	465.00 cy	600.00 /cy	279,000
		Elevator Pit	2.00 ea	12,000.00 /ea	24,000
		Piers	18.00 cy	1,200.00 /cy	21,600
		WWF	120,998.00 sf	0.75 /sf	90,749
		15 Mil. Vapor Barrier	85,327.00 sf	0.22 /sf	18,962
		Foundation Insulation	6,700.00 sf	3.00 /sf	20,100
		Concrete Fill on Plank	34,145.00 sf	6.00 /sf	204,870
		MEP Pads	557.00 sf	12.00 /sf	6,684
		<b>FOUNDATIONS</b>		<b>/gsf</b>	<b>1,154,389</b>
		<b>03 Foundations</b>	<b>121,974.00 gsf</b>	<b>9.46 /gsf</b>	<b>1,154,389</b>
<b>04 Structure</b>					
<b>SUPERSTRUCTURE</b>					
		12" Precast Hollow Core Plank	28,420.00 sf	14.00 /sf	397,880
		15" Precast Hollow Core Plank	6,797.00 sf	16.00 /sf	108,752
		Metal Deck - 22 ga	65,130.00 sf	4.00 /sf	260,520
		Metal Deck - 20 ga	19,867.00 sf	5.00 /sf	99,335
		Structural Steel - Lintels	40.00 ton	4,200.00 /ton	168,000
		Structural Steel - Joists	157.00 ton	4,200.00 /ton	659,400
		Structural Steel - Columns / Beams / Angles	169.00 ton	4,200.00 /ton	709,800
		Structural Steel - Bearing Plates	562.00 ea	150.00 /ea	84,300
		Storm Shelter Hardening	1.00 alw	150,000.00 /alw	150,000
		<b>SUPERSTRUCTURE</b>		<b>/gsf</b>	<b>2,637,987</b>
		<b>04 Structure</b>	<b>121,974.00 gsf</b>	<b>21.63 /gsf</b>	<b>2,637,987</b>
<b>05 Exterior Walls</b>					
<b>EXTERIOR CLOSURE</b>					
		Exterior Masonry Brick / Block	46,573.00 sf	56.00 /sf	2,608,088
		Precast Sills	842.00 lf	75.00 /lf	63,150
		Exterior Masonry Rowlock Course	1,080.00 sf	34.00 /sf	36,720
		Louvers	160.00 sf	60.00 /sf	9,600
		Metal Panels at Soffits / Overhangs	6,678.00 sf	45.00 /sf	300,510
		Plywood at Exterior Wall	4,720.00 sf	25.00 /sf	118,000
		Motorized Gate	1.00 ea	50,000.00 /ea	50,000
		DBL GI / Alum Entrance Door	12.00 pair	8,000.00 /pair	96,000
		Curtainwall	855.00 sf	110.00 /sf	94,050
		Skylights	1,885.00 sf	150.00 /sf	282,750
		Aluminum Windows - Exterior - Operable	2,456.00 sf	90.00 /sf	221,040
		<b>EXTERIOR CLOSURE</b>		<b>/gsf</b>	<b>3,879,908</b>
		<b>05 Exterior Walls</b>	<b>121,974.00 gsf</b>	<b>31.81 /gsf</b>	<b>3,879,908</b>

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>06 Roofing &amp; Moisture Protection</b>					
<b>EXTERIOR CLOSURE</b>					
		Asphalt Roof / Gutters / Downspouts	29,747.00 sf	16.00 /sf	475,952
		Flexible Roof / Copings / Flashings	57,427.00 sf	20.00 /sf	1,148,540
		<b>EXTERIOR CLOSURE</b>		<b>/gsf</b>	<b>1,624,492</b>
		<b>06 Roofing &amp; Moisture Protection</b>	<b>121,974.00 gsf</b>	<b>13.32 /gsf</b>	<b>1,624,492</b>
<b>07 Miscellaneous Metals</b>					
<b>STAIRWAYS</b>					
		Stair Risers	126.00 ea	300.00 /ea	37,800
		Stair Mid Landings	85.00 sf	80.00 /sf	6,800
		Stair Floor Railings	292.00 lf	250.00 /lf	73,000
		Stair Wall Railings	201.00 lf	150.00 /lf	30,150
		Basketball Supports	6.00 ea	1,500.00 /ea	9,000
		Pipe Bollards	10.00 ea	800.00 /ea	8,000
		Roof Hatch / Ladder	2.00 ea	7,500.00 /ea	15,000
		Ladder at Roof	3.00 ea	2,500.00 /ea	7,500
		<b>STAIRWAYS</b>		<b>/gsf</b>	<b>187,250</b>
		<b>07 Miscellaneous Metals</b>	<b>121,974.00 gsf</b>	<b>1.54 /gsf</b>	<b>187,250</b>
<b>08 Rough &amp; Finish Carpentry</b>					
<b>INTERIOR FINISHES</b>					
		Open Shelving / Cubbies	746.00 lf	200.00 /lf	149,200
		Open Shelving	731.00 lf	250.00 /lf	182,750
		Base Cabinets	629.00 lf	300.00 /lf	188,700
		Science Room Casework	415.00 lf	400.00 /lf	166,000
		Upper Cabinets	151.00 lf	200.00 /lf	30,200
		Storage Cabinets	299.00 lf	600.00 /lf	179,400
		Electrical Plywood	306.00 sf	8.00 /sf	2,448
		Bench	154.00 lf	150.00 /lf	23,100
		Work Counter	81.00 lf	150.00 /lf	12,150
		Display Cases	3.00 ea	3,000.00 /ea	9,000
		Red Oak Panels	940.00 sf	60.00 /sf	56,400
		<b>INTERIOR FINISHES</b>		<b>/gsf</b>	<b>999,348</b>
		<b>08 Rough &amp; Finish Carpentry</b>	<b>121,974.00 gsf</b>	<b>8.19 /gsf</b>	<b>999,348</b>
<b>09 Interior Partitions / Doors</b>					
<b>INTERIOR CONSTRUCTION</b>					
		4" CMU	2,796.00 sf	14.00 /sf	39,144
		6" CMU	18,928.00 sf	16.00 /sf	302,848
		8" CMU	28,312.00 sf	18.00 /sf	509,616
		12" CMU	37,869.00 sf	22.00 /sf	833,118
		12" CMU Sound Wall	3,071.00 sf	26.00 /sf	79,846
		Install Door / Frame / HW	219.00 leaf	400.00 /leaf	87,600
		H.M. Frame / Door	99.00 leaf	800.00 /leaf	79,200
		H.M. Frame / Wood Door	120.00 leaf	1,000.00 /leaf	120,000
		Door Sidelites / Transoms - H.M. Frame	56.00 leaf	500.00 /leaf	28,000
		Fire Shutter	100.00 sf	150.00 /sf	15,000
		Dumpster Door Gate /	3.00 ea	4,500.00 /ea	13,500
		Overhead Door	1.00 ea	8,000.00 /ea	8,000
		Interior Glass / Framing Walls	260.00 sf	60.00 /sf	15,600
		Clerestory Windows	629.00 sf	80.00 /sf	50,320
		Sidelight / Transom Glazing	56.00 ea	200.00 /ea	11,200
		Drywall Partitions	23,839.00 sf	12.00 /sf	286,068
		Drywall Furring	1,500.00 sf	6.00 /sf	9,000
		Drywall Soffits	4,300.00 sf	6.00 /sf	25,800
		Plaster Soffit	540.00 sf	16.00 /sf	8,640
		Acoustical Panels at Gym	160.00 ea	500.00 /ea	80,000
		Acoustical Panels at Music	83.00 ea	500.00 /ea	41,500

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>INTERIOR CONSTRUCTION</b>					
		Acoustical Panels at Gym	2,560.00 sf	30.00 /sf	76,800
		Hardware Allowance	219.00 alw	1,000.00 /alw	219,000
<b>INTERIOR CONSTRUCTION</b>					
				<b>/gsf</b>	<b>2,939,800</b>
<b>09 Interior Partitions / Doors</b>			<b>121,974.00 gsf</b>	<b>24.10 /gsf</b>	<b>2,939,800</b>
<b>10 Interior Finishes</b>					
<b>INTERIOR CONSTRUCTION</b>					
		Acoustical Ceilings	82,913.00 sf	5.00 /sf	414,565
		Drywall Ceilings	6,963.00 sf	12.00 /sf	83,556
		Vinyl Covered Acoustical Ceilings	1,601.00 sf	8.00 /sf	12,808
<b>INTERIOR CONSTRUCTION</b>					
				<b>/gsf</b>	<b>510,929</b>
<b>INTERIOR FINISHES</b>					
		Ceramic Floor Tile at Toilet Room	5,316.00 sf	18.00 /sf	95,688
		Ceramic Wall Tile	8,312.00 sf	18.00 /sf	149,616
		Quarry Tile Floor	1,601.00 sf	20.00 /sf	32,020
		Quarry Tile Base	371.00 lf	20.00 /lf	7,420
		Standard VCT Tile	65,806.00 sf	3.00 /sf	197,418
		Rubber Disk Tile	3,591.00 sf	9.00 /sf	32,319
		Gym Floor - Wood	12,500.00 sf	14.00 /sf	175,000
		Gym Floor - Rubber	4,000.00 sf	12.00 /sf	48,000
		Vinyl Base	15,707.00 lf	2.00 /lf	31,414
		Carpet	17,774.00 sf	5.00 /sf	88,870
		Interior Paint - Walls	261,561.00 sf	1.00 /sf	261,561
		Sealed Concrete Floor	6,618.00 sf	2.00 /sf	13,236
		Interior Paint - Ceilings & Soffits	4,535.00 sf	2.00 /sf	9,070
		Interior Paint - Exposed Structure and MEP Painted	21,729.00 sf	3.00 /sf	65,187
<b>INTERIOR FINISHES</b>					
				<b>/gsf</b>	<b>1,206,819</b>
<b>10 Interior Finishes</b>			<b>121,974.00 gsf</b>	<b>14.08 /gsf</b>	<b>1,717,748</b>
<b>11 Specialties</b>					
<b>INTERIOR CONSTRUCTION</b>					
		White Boards / Marker Boards	4,820.00 sf	14.00 /sf	67,480
		Tackboards	1,653.00 sf	14.00 /sf	23,142
		Toilet Partition	38.00 ea	1,500.00 /ea	57,000
		Urinal Divider	11.00 ea	400.00 /ea	4,400
		Toilet Paper Dispenser	45.00 ea	75.00 /ea	3,375
		Flagpole	1.00 ea	3,000.00 /ea	3,000
		Display Cases	636.00 sf	80.00 /sf	50,880
		Large Lockers	90.00 ea	240.00 /ea	21,600
		Small Lockers	220.00 ea	260.00 /ea	57,200
		Hall Lockers	1,000.00 ea	240.00 /ea	240,000
		Fire Extin. Cabinet Recessed	14.00 ea	300.01 /ea	4,200
		Soap Dispensers	11.00 ea	85.00 /ea	935
		H.C. Bars	38.00 ea	200.00 /ea	7,600
		Paper Towel Dispenser / Receptacle	39.00 ea	200.00 /ea	7,800
		Library Shelving and Tables in FF&E	0.00 lf	0.00 /lf	0
		Computer Room Tables in FF&E	0.00 lf	0.00 /lf	0
<b>INTERIOR CONSTRUCTION</b>					
				<b>/gsf</b>	<b>548,612</b>
<b>11 Specialties</b>			<b>121,974.00 gsf</b>	<b>4.50 /gsf</b>	<b>548,612</b>
<b>12 Equipment</b>					
<b>EQUIPMENT</b>					
		Kitchen Equipment - Consultant Quote	1.00 alw	300,000.00 /alw	300,000
		Scoreboards Basketball	2.00 ea	15,000.00 /ea	30,000
		Fitness Equipment - in FF&E	0.00 ea	0.00 /ea	0
		Wall Pads in FF&E	0.00 alw	0.00 /alw	0
		Wrestling Mats in FF&E	0.00 alw	0.00 /alw	0
		Handicap Lift	1.00 ea	25,000.00 /ea	25,000

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
		<b>EQUIPMENT</b>			
		Volleyball Sleeve Inserts	14.00 ea	100.00 /ea	1,400
		Basketball Backstop - Powered Drop-down	6.00 ea	6,000.00 /ea	36,000
		Divider Curtain	8,000.00 sf	15.00 /sf	120,000
		Gym Bleachers	1,000.00 seat	150.00 /seat	150,000
		Folding Tables - in FF&E	0.00 ea	0.00 /ea	0
		Folding Partition at stage	330.00 sf	45.00 /sf	14,850
		<b>EQUIPMENT</b>			<b>677,250</b>
		<b>12 Equipment</b>	<b>121,974.00 gsf</b>	<b>5.55 /gsf</b>	<b>677,250</b>
		<b>14 Conveying</b>			
		<b>EQUIPMENT</b>			
		Elevator	2.00 ea	110,000.00 /ea	220,000
		<b>EQUIPMENT</b>			<b>220,000</b>
		<b>14 Conveying</b>	<b>121,974.00 gsf</b>	<b>1.80 /gsf</b>	<b>220,000</b>
		<b>15 Fire Protection</b>			
		<b>FIRE PROTECTION SYSTEMS</b>			
		RPBP	2.00 ea	8,000.00 /ea	16,000
		Sprinkler Heads & Distribution Piping	121,974.00 sf	3.50 /sf	426,909
		<b>FIRE PROTECTION SYSTEMS</b>		<b>/gsf</b>	<b>442,909</b>
		<b>15 Fire Protection</b>	<b>121,974.00 gsf</b>	<b>3.63 /gsf</b>	<b>442,909</b>
		<b>16 Plumbing</b>			
		<b>PLUMBING SYSTEMS</b>			
		Domestic Hot and Cold Water	121,974.00 sf	4.00 /sf	487,896
		Sanitary and Vent Piping	121,974.00 sf	3.00 /sf	365,922
		Science Sanitary Premium	39.00 ea	800.00 /ea	31,200
		Storm Piping	121,974.00 sf	3.00 /sf	365,922
		Kitchen Allowance	1,601.00 sf	20.00 /sf	32,020
		Water Closet- Wall, WC-2,	34.00 ea	1,082.80 /ea	36,815
		Water Closet- Wall (HC), WC-1	10.00 ea	1,082.80 /ea	10,828
		Battery Operated - Flushometer - WC	44.00 ea	539.52 /ea	23,739
		Battery Operated - Flushometer - UR	16.00 ea	539.52 /ea	8,632
		Urinal, Wall, UR-1 & 2	16.00 ea	928.80 /ea	14,861
		Lavatory, Wall, L-2	8.00 ea	573.60 /ea	4,589
		Lavatory, Wall (HC), L-1	3.00 ea	573.60 /ea	1,721
		Lavatory Carrier (wall)	11.00 ea	215.00 /ea	2,365
		Wash Fountain, WF-1 - 3 basin	8.00 ea	5,364.00 /ea	42,912
		Wash Fountain, WF-1 - 2 basin	6.00 ea	5,364.00 /ea	32,184
		Art Sink	4.00 ea	856.00 /ea	3,424
		Nurse Sink	1.00 ea	856.00 /ea	856
		Conf Sink	1.00 ea	856.00 /ea	856
		Teachers Lounge Sink	2.00 ea	856.00 /ea	1,712
		Science Classroom Sink	39.00 ea	1,322.00 /ea	51,558
		Science Classroom Gases	39.00 ea	3,000.00 /ea	117,000
		Service Sink, Wall, SS-1	4.00 ea	1,114.55 /ea	4,458
		Shower	4.00 ea	3,500.00 /ea	14,000
		Electric Water Cooler	15.00 ea	1,053.10 /ea	15,797
		Floor Drain 6", FD-1	10.00 ea	416.00 /ea	4,160
		Floor Drain 8 1/2", FD-2	3.00 ea	656.20 /ea	1,969
		Floor Cleanout 4"	3.00 ea	411.32 /ea	1,234
		Floor Cleanout 6"	32.00 ea	662.24 /ea	21,192
		Wall Cleanout 4", WCO	16.00 ea	165.60 /ea	2,650
		Roof Vent 3"	3.00 ea	168.00 /ea	504
		Roof Vent 4"	19.00 ea	204.00 /ea	3,876
		Vent Flashing 3" with Boot	4.00 ea	162.00 /ea	648
		Vent Flashing 4" with Boot	19.00 ea	162.00 /ea	3,078
		Grease Interceptor, Steel, 4" I/O, 1000#, G-1	1.00 ea	14,449.00 /ea	14,449
		Wall Hydrant - FPWH	23.00 ea	489.00 /ea	11,247

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Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>PLUMBING SYSTEMS</b>					
		Hose Bibb, HB-2	3.00 ea	114.80 /ea	344
		Backflow Preventer (RP) 3"	1.00 ea	3,618.12 /ea	3,618
		Gas Water Heater (Allowance), HWH-1	1.00 ea	9,804.00 /ea	9,804
		Thermostatic Mixing Valve, 1-1/4"	2.00 ea	5,588.80 /ea	11,178
		SS Cabinet for TMV	2.00 ea	3,088.80 /ea	6,178
		Test & Sterilize	2.00 ls	1,402.00 /ls	2,804
		Expansion Tank 30 gal,	1.00 ea	804.00 /ea	804
		<b>PLUMBING SYSTEMS</b>		<b>/gsf</b>	<b>1,771,002</b>
		<b>16 Plumbing</b>	<b>121,974.00 gsf</b>	<b>14.52 /gsf</b>	<b>1,771,002</b>
<b>17 HVAC</b>					
<b>HVAC SYSTEMS</b>					
		Duct Wrap Insulation	40,384.00 sf	3.00 /sf	121,152
		Pumps	10.00 ea	7,500.00 /ea	75,000
		Hot Water Supply	3,480.00 lf	60.00 /lf	208,800
		Hot Water Return	3,480.00 lf	60.00 /lf	208,800
		AH Piping	4.00 ea	15,000.00 /ea	60,000
		RT Piping	1.00 ea	10,000.00 /ea	10,000
		CU Piping	1.00 ea	8,000.00 /ea	8,000
		Pump Piping	10.00 ea	8,000.00 /ea	80,000
		Boiler Piping	3.00 ea	15,000.00 /ea	45,000
		Gas for Boiler	2.00 ea	7,500.00 /ea	15,000
		Gas for Water Heater	1.00 ea	7,500.00 /ea	7,500
		Boiler # 1	1.00 ea	50,000.00 /ea	50,000
		Boiler # 2	1.00 ea	50,000.00 /ea	50,000
		Boiler # 3	1.00 ea	50,000.00 /ea	50,000
		Condensing Unit	1.00 ea	15,000.00 /ea	15,000
		AH Unit # 1 - 18380 cfm	18,380.00 cfm	8.00 /cfm	147,040
		AH Unit # 2 - 19575 cfm	19,575.00 cfm	8.00 /cfm	156,600
		AH Unit # 3 - 17000 cfm	17,000.00 cfm	8.00 /cfm	136,000
		Chiller - 350 Tons	1.00 ea	350,000.00 /ea	350,000
		AH Unit # 4 - 6000 cfm	6,000.00 cfm	8.00 /cfm	48,000
		Chiller Piping	5.00 ea	15,000.00 /ea	75,000
		AH Unit # 5 - 61018 cfm	61,018.00 cfm	8.00 /cfm	488,144
		VAV Boxes	87.00 ea	1,500.00 /ea	130,500
		Unit Heaters	4.00 ea	3,000.00 /ea	12,000
		Baseboard Radiation	80.00 lf	80.00 /lf	6,400
		Fan Coil	11.00 ea	3,000.00 /ea	33,000
		CAC	3.00 ea	15,000.00 /ea	45,000
		Supply Ductwork	78,000.00 lbs	8.00 /lbs	624,000
		Return Ductwork	38,000.00 lbs	8.00 /lbs	304,000
		Exhaust Ductwork	739.00 lbs	8.00 /lbs	5,912
		Kitchen Exhaust Ductwork	4,770.00 lbs	16.00 /lbs	76,320
		Exhaust Fans	14.00 ea	3,000.00 /ea	42,000
		Automatic Temperature Controls	121,974.00 sf	3.00 /sf	365,922
		3rd Party Commissioning	1.00 alw	150,000.00 /alw	150,000
		<b>HVAC SYSTEMS</b>		<b>/gsf</b>	<b>4,200,090</b>
		<b>17 HVAC</b>	<b>121,974.00 gsf</b>	<b>34.43 /gsf</b>	<b>4,200,090</b>
<b>18 Electrical and Lighting</b>					
<b>ELECTRICAL SYSTEMS</b>					
		Main Fire Alarm Panel	1.00 ea	21,450.00 /ea	21,450
		Smoke Detector	129.00 ea	643.50 /ea	83,012
		Audio Alarm / Visual	47.00 ea	786.50 /ea	36,966
		Pull Station	17.00 ea	572.00 /ea	9,724
		Visual Alarm	34.00 ea	572.00 /ea	19,448
		Door Contact	7.00 ea	715.00 /ea	5,005
		Heat Detector	13.00 ea	1,072.50 /ea	13,943
		Electric Strike	6.00 ea	715.00 /ea	4,290
		Push Paddles	4.00 ea	2,145.00 /ea	8,580
		FAAP	1.00 ea	6,435.00 /ea	6,435



Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
<b>ELECTRICAL SYSTEMS</b>					
		Duct Detector	10.00 ea	1,072.50 /ea	10,725
		TS	7.00 ea	715.00 /ea	5,005
		FS	7.00 ea	715.00 /ea	5,005
		Fan Shut Down Relay	10.00 ea	643.50 /ea	6,435
		Magnetic Door Holder	22.00 ea	715.00 /ea	15,730
		Incoming Secondary	80.00 lf	429.00 /lf	34,320
		Panelboard Feeders - 200 A	795.00 lf	85.80 /lf	68,211
		Panelboard Feeders - 400 A	159.00 lf	143.00 /lf	22,737
		Panelboard Feeders - 600 A	159.00 lf	214.50 /lf	34,106
		Panelboard Feeders - 800 A	159.00 lf	286.00 /lf	45,474
		Panelboard Feeders - 225 A	636.00 lf	100.10 /lf	63,664
		Panelboard Feeders - 150 A	318.00 lf	71.50 /lf	22,737
		Panelboard Feeders - 100 A	477.00 lf	64.35 /lf	30,695
		Panelboard Feeders - 45 A	159.00 lf	35.75 /lf	5,684
		RTU Power	5.00 ea	5,148.00 /ea	25,740
		Pump Power	16.00 ea	3,861.00 /ea	61,776
		Boiler Power	2.00 ea	4,504.50 /ea	9,009
		CU Power	2.00 ea	5,148.00 /ea	10,296
		Basketball Power	6.00 ea	3,217.50 /ea	19,305
		HWH Power	2.00 ea	3,861.00 /ea	7,722
		Kitchen Power	69.00 ea	643.50 /ea	44,402
		FC Feeders	5.00 ea	2,574.00 /ea	12,870
		Door Power	4.00 ea	4,504.50 /ea	18,018
		Exhaust Fan Feeders	5.00 ea	3,217.50 /ea	16,088
		Unit Heater Power	1.00 ea	2,574.00 /ea	2,574
		Gym Curtain Power	1.00 ea	3,217.50 /ea	3,218
		Scoreboard Power	1.00 ea	3,217.50 /ea	3,218
		HC Lift Power	1.00 ea	2,574.00 /ea	2,574
		Elevator Power	2.00 ea	9,009.00 /ea	18,018
		WP Duplex Outlets	24.00 ea	687.83 /ea	16,508
		Wiremold	115.00 lf	51.48 /lf	5,920
		GFI Power	45.00 ea	429.00 /ea	19,305
		Duplex Outlets	445.00 ea	328.90 /ea	146,361
		EWC Power	9.00 ea	1,029.60 /ea	9,266
		Special Receptacle	4.00 ea	514.80 /ea	2,059
		Floor Duct	164.00 lf	51.48 /lf	8,443
		Floor Box	24.00 ea	643.50 /ea	15,444
		Double Duplex Outlets	190.00 ea	514.80 /ea	97,812
		Main Switchboard	1.00 ea	214,500.00 /ea	214,500
		300 KVA Transformer	2.00 ea	19,305.00 /ea	38,610
		150 KVA Transformer	2.00 ea	11,583.00 /ea	23,166
		Panelboards - 200 A	8.00 ea	4,290.00 /ea	34,320
		Panelboards - 400 A	2.00 ea	8,580.00 /ea	17,160
		Panelboards - 600 A	2.00 ea	11,440.00 /ea	22,880
		Distribution Panel	2.00 ea	20,020.00 /ea	40,040
		Panelboards - 225 A	6.00 ea	5,005.00 /ea	30,030
		Panelboards - 150 A	3.00 ea	4,004.00 /ea	12,012
		Panelboards - 100 A	5.00 ea	3,575.00 /ea	17,875
		Panelboards - 45 A	2.00 ea	2,574.00 /ea	5,148
		Light F2	1,039.00 ea	643.50 /ea	668,597
		Light F8	6.00 ea	715.00 /ea	4,290
		Light F11	5.00 ea	607.75 /ea	3,039
		Light F12	16.00 ea	572.00 /ea	9,152
		Light F13	17.00 ea	593.45 /ea	10,089
		Light F16	36.00 ea	607.75 /ea	21,879
		Exit Light	26.00 ea	786.50 /ea	20,449
		Occupancy Sensor	46.00 ea	772.20 /ea	35,521
		3 Way Switch	51.00 ea	643.50 /ea	32,819
		Key Switch	17.00 ea	643.50 /ea	10,940
		Exterior Lighting Control	1.59 ea	5,791.50 /ea	9,208
		Single Pole Switch	169.00 ea	429.00 /ea	72,501
		Light F24 Exterior	8.00 ea	1,072.50 /ea	8,580
		Light F25 Exterior	6.00 ea	1,144.00 /ea	6,864

Location	Estimator1	Description	Takeoff Quantity	Total Cost/Unit	Total Amount
		<b>ELECTRICAL SYSTEMS</b>			
		Light F23 Exterior	5.00 ea	1,215.50 /ea	6,078
		Band Room Lights	85.00 ea	929.50 /ea	79,008
		Com-Ed Allowance	1.00 alw	21,450.00 /alw	21,450
		<b>ELECTRICAL SYSTEMS</b>		<b>/gsf</b>	<b>2,631,525</b>
		<b>SITE IMPROVEMENTS</b>			
		Utility Pads	1.00 ea	6,435.00 /ea	6,435
		Primary Feeder Ductbank	535.00 lf	115.83 /lf	61,969
		Low Voltage Ductbank	737.00 lf	102.96 /lf	75,882
		2 Head Pole Light	4.00 ea	6,435.00 /ea	25,740
		1 Head Pole Light	36.00 ea	5,720.00 /ea	205,920
		Sign power	2.00 ea	6,435.00 /ea	12,870
		Disc / Reloc Light	5.00 ea	1,029.60 /ea	5,148
		<b>SITE IMPROVEMENTS</b>		<b>/gsf</b>	<b>393,964</b>
		<b>18 Electrical and Lighting</b>	<b>121,974.00 gsf</b>	<b>24.80 /gsf</b>	<b>3,025,489</b>
		<b>19 Communications, AV, Security</b>			
		<b>ELECTRICAL SYSTEMS</b>			
		Camera	10.00 ea	4,290.00 /ea	42,900
		Card Reader	7.00 ea	3,575.00 /ea	25,025
		Head End	1.00 ea	28,600.00 /ea	28,600
		Mircophone	1.00 ea	1,029.60 /ea	1,030
		Call In Switch	4.77 ea	772.20 /ea	3,683
		Volume Control	17.00 ea	900.90 /ea	15,315
		Speaker	100.00 ea	643.50 /ea	64,350
		Combination Clock / Speaker	46.00 ea	1,544.40 /ea	71,042
		Intercom / Clock Head End	1.00 ea	19,305.00 /ea	19,305
		Intercom / Clock Head End			
		Intercom / Clock			
		Sound System Head End	1.00 ea	9,652.50 /ea	9,653
		Box Speaker	3.00 ea	965.25 /ea	2,896
		Clock	2.00 ea	643.50 /ea	1,287
		1 Data Outlet	132.00 ea	429.00 /ea	56,628
		Voice Outlet	7.00 ea	429.00 /ea	3,003
		TV / RGB / RCA	127.00 ea	572.00 /ea	72,644
		Wireless Access Point	13.00 ea	715.00 /ea	9,295
		Patch Panels - Voice / Data / Cable	1.00 ea	21,450.00 /ea	21,450
		2 Data Outlet	131.00 ea	715.00 /ea	93,665
		VPL	48.00 ea	715.00 /ea	34,320
		VPH	48.00 ea	715.00 /ea	34,320
		<b>ELECTRICAL SYSTEMS</b>		<b>/gsf</b>	<b>610,411</b>
		<b>19 Communications, AV, Security</b>	<b>121,974.00 gsf</b>	<b>5.00 /gsf</b>	<b>610,411</b>
		<b>20 General Requirements</b>			
		<b>EQUIPMENT</b>			
		General Requirements	121,974.00 gsf	5.00 /gsf	609,870
		<b>EQUIPMENT</b>			<b>609,870</b>
		<b>20 General Requirements</b>	<b>121,974.00 gsf</b>	<b>5.00 /gsf</b>	<b>609,870</b>
		<b>A - Base Bid</b>	<b>121,974.00</b>	<b>259.62</b>	<b>31,666,797</b>

Estimate Totals