

## PINE LAKES ELEMENTARY SCHOOL

### DETAILED COST ESTIMATE

2/4/2005

Source : RS Means Building Construction Cost Data, 2004

Estimated building floor area

59784 sqft

Item	CSI Section	Unit Cost	Units	Quantity	Total Cost	Notes
<b><u>Division 1 - General Requirements</u></b>						
Provide temporary chain link fence in contractor staging area	01525	\$11.15 L.F.			\$0.00	
Provide project signage (submitt sketch)	01580	\$13.25 S.F.		32	\$424.00	
<b>TOTAL FOR DIVISION 1</b>					<b>\$424.00</b>	
<b><u>Division 2 - Site Construction</u></b>						
<b><u>WEST PARKING LOT</u></b>						
Demolition for Remodeling	2223	\$11.00 SF		439	\$4,829.00	
Site Clearing	2230	\$10.00 SF		3665	\$36,650.00	
Earthwork	2300	\$16.00 CY		269	\$4,304.00	
Excavation and fill for utility systems	2315	\$13.00 CY		0	\$0.00	
Soil Treatment	2360	\$2.20 SF		159	\$349.80	
Storm Drainage	2630	\$180.00 LF		0	\$0.00	
Flexible and Rigid Paving	2745	\$8.00 SY		0	\$0.00	
Asphalt Paving for Driveway (asphalt concrete paving)	2746	\$7.00 SY		158	\$1,106.00	
Asphalt Paving for Driveway (surface course)	2746	\$0.11 SF		30940	\$3,403.40	
Asphalt Paving for Driveway (pavement markings & signs)	2746	\$1.40 LF		3062	\$4,286.80	
Irrigation Systems					\$0.00	
Chain Link Fence & Gates	2810	\$60.00 LF		0	\$0.00	
Parking Bumper	2821	\$19.00 LF		90	\$1,710.00	
Trees & Plants	2848	\$54.00 EA		40	\$2,160.00	
Sodding	2900	\$315.00 EA		4	\$1,260.00	
Asphalt Patching	2924	\$3.15 SY		244	\$768.60	
Asphalt Repair & Sealing	2951	\$50.00 SY		20	\$1,000.00	
Concrete forms & accessories	2952	\$2.20 LF		300	\$660.00	
Cast-in-place concrete	3100	\$25.00 SF		191	\$4,775.00	
	3300	\$100.00 CY		10	\$1,000.00	
<b>SUBTOTAL WEST PARKING LOT</b>					<b>\$68,262.60</b>	
<b><u>NORTH PARKING LOT</u></b>						
Demolition for Remodeling	2223	\$11.00 SF		100	\$1,100.00	
Site Clearing	2230	\$10.00 SF		7550	\$75,500.00	
Earthwork	2300	\$16.00 CY		459	\$7,344.00	
Excavation and fill for utility systems	2315	\$15.00 CY		1085	\$16,275.00	
Soil Treatment	2360	\$2.00 SF		0	\$0.00	
Storm Drainage	2630	\$170.00 LF		385.95	\$65,611.50	
Flexible and Rigid Paving	2745	\$8.00 SY		0	\$0.00	
Asphalt Paving for Driveway (asphalt concrete paving)	2746	\$7.00 SY		688	\$4,816.00	
Asphalt Paving for Driveway (surface course)	2746	\$0.11 SF		25549	\$2,810.39	
Asphalt Paving for Driveway (pavement markings & signs)	2746	\$1.40 LF		5160	\$7,224.00	
Irrigation Systems					\$0.00	
Chain Link Fence & Gates	2810	\$60.00 LF		0	\$0.00	
Parking Bumper	2821	\$19.00 LF		81	\$1,539.00	
Trees & Plants	2848	\$54.00 EA		50	\$2,700.00	
Sodding	2900	\$315.00 EA		4	\$1,260.00	
Asphalt Patching	2924	\$3.15 SY		215	\$677.25	
Asphalt Repair & Sealing	2951	\$50.00 SY		20	\$1,000.00	
Concrete forms & accessories	2952	\$2.20 LF		200	\$440.00	
Cast-in-place concrete	3100	\$25.00 SF		1438	\$35,950.00	
Waste water collection and disposal	3300	\$100.00 CY		19	\$1,900.00	
	11305	\$230.00 LF		20	\$4,600.00	
<b>SUBTOTAL NORTH PARKING LOT</b>					<b>\$230,747.14</b>	
<b><u>EAST PARKING LOT</u></b>						
Demolition for Remodeling	2223	\$11.00 SF		50	\$550.00	
Site Clearing	2230	\$10.00 SF		100	\$1,000.00	
Earthwork	2300	\$13.00 CY		0	\$0.00	
Excavation and fill for utility systems	2315	\$13.00 CY		0	\$0.00	
Soil Treatment	2360	\$2.00 SF		0	\$0.00	
Storm Drainage	2630	\$180.00 LF		0	\$0.00	
Flexible and Rigid Paving	2745	\$8.00 SY		0	\$0.00	

Asphalt Paving for Driveway (surface course)	2746	\$0.11 SF	16353	\$1,798.83
Asphalt Paving for Driveway (pavement markings & signs)	2746	\$1.40 LF	929	\$1,300.60
				\$0.00
Irrigation Systems	2810	\$60.00 LF	0	\$0.00
Chain Link Fence & Gates	2821	\$19.00 LF	316	\$6,004.00
Parking Bumper	2848	\$54.00 EA	8	\$432.00
Trees & Plants	2900	\$300.00 EA	0	\$0.00
Sodding	2924	\$3.00 SY	0	\$0.00
Asphalt Patching	2951	\$50.00 SY	20	\$1,000.00
Asphalt Repair & Sealing	2952	\$2.20 LF	200	\$440.00
Concrete forms & accessories	3100	\$25.00 SF	100	\$2,500.00
Cast-in-place concrete	3300	\$100.00 CY	10	\$1,000.00

SUBTOTAL EAST PARKING LOT \$16,025.43

#### TEMPORARY PARKING LOT

Demolition for Remodeling	2223	\$3.00 SF	1667	\$5,001.00
Site Clearing	2230	\$10.00 SF	100	\$1,000.00
Earthwork	2300	\$16.00 CY	476	\$7,616.00
Asphalt Paving for Driveway (asphalt concrete paving)	2746	\$7.00 SY	1667	\$11,669.00
Asphalt Paving for Driveway (surface course)	2746	\$0.11 SF	15000	\$1,650.00
Asphalt Paving for Driveway (pavement markings & signs)	2746	\$1.40 LF	907	\$1,269.80
Sodding	2924	\$3.15 SY	1667	\$5,251.05

SUBTOTAL TEMPORARY PARKING LOT \$33,456.85

SUBTOTAL FOR ALL PARKING \$348,492.02

Mobilization	10%	\$34,849.20
Maintenance of Traffic	5%	\$17,424.60
Contingencies	5%	\$17,424.60

SUBTOTAL SITE WORK \$418,190.42

SELECTIVE BUILDING DEMOLITION \$9,800.00 allowance \$9,800.00

#### ADA PLAYCOURT CONSTRUCTION

Kindergarten Court	\$21,300.00 each	1	\$21,300.00
Elementary Court	\$43,600.00 each	1	\$43,600.00

TOTAL FOR DIVISION 2 \$492,890.42

#### Division 3 - Concrete (Provide shop dwgs for all items)

Allowance for AHU concrete pads	03000	\$5,000.00 each	1	\$5,000.00
Allowance for cooling tower foundation	03000	\$10,000.00 each	1	\$10,000.00

TOTAL FOR DIVISION 3 \$15,000.00

#### Division 5 - Metals (Provide shop dwgs for all items)

Allowance for structural steel roof support for ERV's	05000	\$38,000.00 each	1	\$38,000.00
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TOTAL FOR DIVISION 5 \$38,000.00

#### Division 6 - Wood & Plastics (Provide shop dwgs for all items)

ADA bathroom countertops w/ laminate		\$55.00 L.F.	11	\$605.00
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TOTAL FOR DIVISION 6 \$605.00

#### Division 7 - Thermal & Moisture Protection

Misc. roof repairs	07920	\$10,000.00 allowance	1	\$10,000.00
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TOTAL FOR DIVISION 7 \$10,000.00

#### Division 8 - Doors & Windows (Provide submittals for all items)

Provide hollow wood interior doors	08210	\$172.00 each	5	\$860.00
Provide hinges for all doors	08710	\$55.00 each	5	\$275.00
Provide non-keyed locksets for all interior doors	08710	\$62.00 each	5	\$310.00

TOTAL FOR DIVISION 8 \$1,445.00

#### Division 9 - Finishes

Provide shaft wall partition	09220	\$4.62 S.F.	40	\$184.80
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Provide gypsum wall bd. ceiling	09250	\$1.63 S.F.	600	\$978.00
Provide ceramic floor tile	09658	\$14.20 S.F.	600	\$8,520.00
Provide ceramic base	09658	\$8.75 L.F.	220	\$1,925.00
Prime & paint all interior doors, frames, & trim, color by owner	09910	\$80.00 each	5	\$400.00
Paint interior ceilings (2 coats), color by owner	09910	\$0.80 S.F.	600	\$480.00
Paint interior walls (2 coats), color by owner	09910	\$0.70 S.F.	1792	\$1,254.40

**TOTAL FOR DIVISION 9 \$13,742.20**

**Division 10 - Specialties (Provide submittals for all items)**

Provide strls stl grab bars in H/C unit	10820	\$95.00 each	5	\$475.00
Provide toilet paper rollers	10820	\$46.00 each	7	\$322.00
Provide ADA toilet partitions w/ 52" grab bars	10155	\$1,175.00 each	2	\$2,350.00
Provide ADA toilet partitions	10155	\$645.00 each	2	\$1,290.00
Provide urinal partitions	10155	\$28.00 each	10	\$280.00
Provide napkin/tampon dispenser	10820	\$180.00 each	3	\$540.00
Provide stall hooks	10820	\$20.50 each	9	\$184.50
Provide toilet seat cover dispenser	10820	\$78.00 each	7	\$546.00
Provide S.S mirrors	10820	\$125.00 each	7	\$875.00

**TOTAL FOR DIVISION 10 \$6,862.50**

**Division 13 - Special Construction**

Provide Fire Alarm Control Panel (addressble)	13720	\$6,800.00 each	1	\$6,800.00
Provide battery and rack for FACP	13720	\$875.00 each	1	\$875.00
Provide Fire Alarm Annunciator Panel	13720	\$1,510.00 each	1	\$1,510.00
Provide fire alarm strobes and connect to fire alarm system	13720	\$200.00 each	35	\$7,000.00
Provide fire alarm horn/strobes and connect to fire alarm system	13720	\$250.00 each	96	\$24,000.00
Provide fire alarm heat detectors and connect to fire alarm system	13720	\$150.00 each	10	\$1,500.00
Provide fire alarm smoke detectors and connect to fire alarm system	13720	\$210.00 each	114	\$23,940.00
Provide explosion proof heat detectors and connect to fire alarm system	13720	\$200.00 each	1	\$200.00
Provide fire alarm duct detectors and connect to fire alarm system	13720	\$470.00 each	14	\$6,580.00
Provide fire alarm manual pull stations and connect to fire alarm system	13720	\$150.00 each	20	\$3,000.00
Provide weatherproof horn/strobes and connect to fire alarm system	13720	\$300.00 each	3	\$900.00
Provide actuator for gas solenoid valve and connect to fire alarm syst	13720	\$380.00 each	1	\$380.00
Provide magnetic door holders and connect to fire alarm system	13720	\$250.00 each	24	\$6,000.00
Fire Alarm wiring, conductors, conduit, fittings, etc	13720	\$28,000.00 allowance	1	\$28,000.00
Provide and install master control unit for clock system	13851	\$4,000.00 each	1	\$4,000.00
Clock system wiring, conductors, conduit, fittings, etc	13720	\$12,000.00 allowance	1	\$12,000.00
Provide and install wall mounted clocks	13851	\$250.00 each	47	\$11,750.00

**TOTAL FOR DIVISION 13 \$131,635.00**

**Division 15 - Mechanical & Plumbing**

Remove & dispose of 7 central station CHW air handling units	\$810.00 per 2000 lb	12	\$9,720.00
Provide & install 7 central station CHW air handling units includes piping, valves, ductwork, & accessories	\$3.25 CFM	58650	\$190,612.50
Provide & install rooftop energy recovery ventilators includes piping, valves, & accessories	\$37,500.00 each	3	\$112,500.00
Provide & install rooftop centrifugal exhaust fans includes backdraft damper, birdscreen, speed controller, ductwork	\$850.00 each	6	\$5,100.00
Provide & install HVAC control system to tie into existing BAS includes valves, zone actuators, room sensors, interlocks, wiring	\$132,000.00 allowance	1	\$132,000.00
Provide testing, adjusting, & balancing of all HVAC systems	\$45,000.00 allowance	1	\$45,000.00
Provide condensate pumps and disposal systems incl. Piping	\$4,000.00 each	5	\$20,000.00
Provide (2) new chilled water pumps	\$6,500.00	2	\$13,000.00
Ductwork & insulation	\$160,000.00 allowance	1	\$160,000.00
Piping, Insulation, Fittings, etc	\$75,000.00 allowance	1	\$75,000.00
New fire dampers, smoke dampers, etc, including controls	\$15,000.00 allowance	1	\$15,000.00
Remove & dispose of existing water closets or urinals & accessories	\$50.50 each	14	\$707.00
Remove & dispose of existing clinic shower & accessories	\$80.50 each	1	\$80.50
Remove & dispose of existing lavatories & accessories	\$50.50 each	8	\$404.00
Provide water closets/urinals & stops, including piping & accessories	\$350.00 each	13	\$4,550.00
Provide countertop lavatories & trim, including piping & accessories	\$242.00 each	4	\$968.00
Provide H/C wall hung lavatories & trim, including piping & accessories plus lavatory carrier	\$320.00 each	5	\$1,600.00
Rough-in for all new fixtures, with supply, waste, & vent piping	\$208.00 each	5	\$1,040.00
	\$42.00 each	22	\$924.00

**TOTAL FOR DIVISION 15 \$788,206.00**

**Division 16 - Electrical**

Provide & install 120V, 20A duplex outlet w/box and plate	16140	\$70.00 each	2	\$140.00
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Provide & install 120V, 20A, GFI duplex outlet w/box and plate	16140	\$100.00 each	8	\$800.00
Provide & install 20A, single pole toggle switch w/box and plate	16140	\$60.00 each	2	\$120.00
Provide & install 60 kW gas generator set w/battery, charger, muffler ATS	16230	\$25,900.00 each	1	\$25,900.00
Provide & install power for all new HVAC equipment includes motor starters, contactors, wiring, etc.	16200		10% mechanical	\$78,820.60
Provide & install 15kVA, 480V pri/208V sec, 3 phase transformer	16270	\$2,050.00 each	1	\$2,050.00
Provide & install 480V, 20A/3P enclosed circuit breaker	16410	\$600.00 each	1	\$600.00
Provide & install Nema 1, 480V, 30A/3P disconnect	16410	\$560.00 each	4	\$2,240.00
Provide & install Nema 1, 480V, 60A/3P disconnect	16410	\$620.00 each	4	\$2,480.00
Provide & install Nema 3R, 480V, 30A/1P disconnect	16410	\$750.00 each	2	\$1,500.00
Provide & install Nema 3R, 480V, 30A/3P disconnect	16410	\$807.00 each	3	\$2,421.00
Provide & install Nema 3R, 480V, 60A/3P disconnect	16410	\$906.00 each	3	\$2,718.00
Provide & install Nema 3R, 480V, 100A/3P disconnect	16410	\$1,340.00 each	1	\$1,340.00
Provide & install 277V, 1pole, 15-30 A breakers	16440	\$150.00 each	5	\$750.00
Provide & install 480V, 3 pole, 15-60A breakers	16440	\$550.00 each	23	\$12,650.00
Provide & install 480V, 3 pole, 70-100A breakers	16440	\$760.00 each	2	\$1,520.00
Provide & install Panel S, 208V, 3 phase, 40A main, 20 ckt	16440	\$1,500.00 each	1	\$1,500.00
Provide & install 20A/1P, 120V, breakers for Panel S	16440	\$30.00 each	10	\$300.00
Provide & install 20A/3P, 208V breakers for Panel S	16440	\$200.00 each	2	\$400.00
Provide & install Panel GDP, 480V, 3 phase, 100A mlo, 12 ckt	16440	\$1,475.00 each	1	\$1,475.00
Provide & install 40A/3P and 50A/3P, 480V breakers for Panel GDP	16440	\$500.00 each	2	\$1,000.00
Provide & install 480V, 20A/3P switch for switchboard	16440	\$800.00 each	1	\$800.00
Provide & install 480V, 150A automatic transfer switch	16440	\$800.00 each	2	\$1,600.00
Electrical systems wiring, conductors, conduit, fittings, etc.	16440	\$42,000.00 allowance	1	\$42,000.00
Provide & install 277V, 100W explosion proof fixture w/battery backup	16510	\$980.00 each	1	\$980.00
Provide & install vandal proof, 1x4, 2-32W fluorescent fixture	16510	\$535.00 each	4	\$2,140.00
Provide & install air handling, 1x4, 2-32W fluorescent fixture	16510	\$200.00 each	62	\$12,400.00
Provide & install LED exit signs with battery back-up	16530	\$235.00 each	15	\$3,525.00
Provide & install fluorescent fixture emergency battery	16530	\$200.00 each	2	\$400.00

**TOTAL FOR DIVISION 16      \$204,569.60**

**NOTE**

As an alternate to the cost identified above, the increased site work as indicated on sheets C-4A, C5A, C6A would be \$674,713.00

<b>TOTAL LINE ITEM COST</b>	<b>\$1,703,379.72</b>
<b>10% OVERHEAD</b>	<b>\$170,337.97</b>
<b>10% PROFIT</b>	<b>\$187,371.77</b>

**TOTAL PROJECT COST      \$2,061,089.47**