



D&S Engineering Labs
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Budget Estimate for Construction Materials
 Testing & Observation Services
Newton Rayzor Elementary School
 Denton, Texas
D&S 22-527

Item	Quantity	Unit	Unit Rate	Total
Earthwork Observation & Testing Paving & Utilities				
Moisture Density Relations (ASTM D698 - Method A or B)	5	each	\$185.00	\$925.00
Moisture Density Relations (ASTM D698 - Method C)	1	each	\$200.00	\$200.00
Atterberg Limits	25	each	\$85.00	\$2,125.00
Minus 200 Sieve Analysis	3	each	\$40.00	\$120.00
Sieve Analysis	1	each	\$120.00	\$120.00
Lime Depth Checks	21	each	\$15.00	\$315.00
Lime Subgrade Gradations	21	each	\$15.00	\$315.00
Sulfate Content in Soils, Colorimetric Method	1	each	\$125.00	\$125.00
Lime Series & Report	1	each	\$400.00	\$400.00
In-Place Moisture-Density Tests (Paving)(Min. 3 Per Trip)	127	each	\$15.00	\$1,905.00
In-Place Moisture-Density Tests (Utilities)(Min 3 Per Trip)	498	each	\$15.00	\$7,470.00
Engineering Soils Technician - Paving (Min. 4 hrs. per trip)	52	hour	\$60.00	\$3,120.00
Engineering Soils Technician - Utilities (Min. 4 hrs. per trip)	108	hour	\$60.00	\$6,480.00
Trip Charge	38	trip	\$50.00	\$1,900.00
Project Manager	23	hour	\$115.00	\$2,645.00
Project Administration	n/a	%	10	\$2,817.00
Estimated Total for Earthwork Services for Paving & Utilities:				\$30,982.00
Asphalt Observation & Testing (Offsite)				
Set Rolling Patterns	24	hour	\$65.00	\$1,560.00
Nuclear Density Gauge Equipment Rental Fee	3	day	\$100.00	\$300.00
Trip Charge	3	trip	\$50.00	\$150.00
Project Manager	2	hour	\$115.00	\$230.00
Project Administration	n/a	%	10	\$224.00
Estimated Total for Asphalt Services:				\$2,464.00
Concrete Observation & Testing - Site Work				
Concrete Test Cylinders (4 x 8 inch)	120	each	\$20.00	\$2,400.00
Engineering Concrete Technician (Min. 4 hrs. per trip) (Includes reinforcing observation & cylinder pick up)	96	hour	\$60.00	\$5,760.00
Trip Charge	24	trip	\$50.00	\$1,200.00
Project Manager	9	hour	\$115.00	\$1,035.00
Project Administration	n/a	%	10	\$1,040.00
Estimated Total for Concrete Services for Paving:				\$11,435.00
Earthwork Observation & Testing Building Pad				
Moisture Density Relations (ASTM D698 - Method A or B)	2	each	\$185.00	\$370.00
Atterberg Limits	2	each	\$85.00	\$170.00
Minus 200 Sieve Analysis	2	each	\$40.00	\$80.00
In-Place Moisture-Density Tests, Min 3 per trip	192	each	\$15.00	\$2,880.00
Engineering Soils Technician (Min. 4 hrs. per trip)	44	hour	\$60.00	\$2,640.00
Trip Charge	11	trip	\$50.00	\$550.00
Project Manager	6	hour	\$115.00	\$690.00
Project Administration	n/a	%	10	\$738.00
Estimated Total for Earthwork Services:				\$8,118.00

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<u>Drilled Shaft Observations</u>				
Concrete Test Cylinders (4 x 8 inch)	85	each	\$20.00	\$1,700.00
Sr. Engineering Technician (Min. 4 hrs. per trip)	136	hour	\$60.00	\$8,160.00
Sr. Engineering Technician (over time rate per trip)	56	hour	\$90.00	\$5,040.00
Senior Engineer (PE)	8	hour	\$175.00	\$1,400.00
Trip Charge	18	trip	\$50.00	\$900.00
Project Manager	15	hour	\$115.00	\$1,725.00
Project Administration	n/a	%	10	\$1,893.00
Estimated Total for Drilled Shaft Services:				\$20,818.00
<u>Concrete Observation & Testing Building</u>				
Concrete Test Cylinders (4 x 8 inch)	285	each	\$20.00	\$5,700.00
Engineering Concrete Technician (Min. 4 hrs. per trip) (Includes reinforcing observation & cylinder pick up)	318	hour	\$60.00	\$19,080.00
Trip Charge	76	trip	\$50.00	\$3,800.00
Project Manager	25	hour	\$115.00	\$2,875.00
Project Administration	n/a	%	10	\$3,146.00
Estimated Total for Concrete Services:				\$34,601.00
<u>Masonry Observation & Testing</u>				
Mortar Cubes (6 per set)	132	each	\$25.00	\$3,300.00
Grout Prisms (4 per set)	88	each	\$35.00	\$3,080.00
Engineering Technician (Min. 4 hrs. per trip) (Includes observation and masonry pickup)	88	hour	\$65.00	\$5,720.00
Trip Charge	11	trip	\$50.00	\$550.00
Project Manager	9	hour	\$115.00	\$1,035.00
Project Administration	n/a	%	10	\$1,039.00
Estimated Total for Masonry Services:				\$14,724.00
<u>Structural Steel Observation</u>				
CWI Visual Observation (Min. 4 hrs. per trip)	70	hour	\$72.00	\$5,040.00
Ultrasonic Inspection (Min. 4 hrs. per trip)	15	hour	\$90.00	\$1,350.00
Material Fee	3	day	\$35.00	\$105.00
Trip Charge	17	trip	\$50.00	\$850.00
Project Manager	7	hour	\$115.00	\$805.00
Project Administration	n/a	%	10	\$815.00
Estimated Total for Structural Steel Services:				\$8,965.00
<u>Fireproofing Observation & Testing</u>				
Fireproofing visual observation (min. 4 hours per trip)	75	hour	\$72.00	\$5,400.00
Thickness and Density testing	68	each	\$30.00	\$2,040.00
Adhesion testing	68	each	\$42.00	\$2,856.00
Trip Charge	15	trip	\$50.00	\$750.00
Project Manager	7	hour	\$115.00	\$805.00
Project Administration	n/a	%	10	\$1,185.00
Estimated Total for Fireproofing Services:				\$13,036.00

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Item	Quantity	Unit	Unit Rate	Total
Storm Shelter Observation & Testing				
Visual observation (min. 4 hours per trip)	32	hour	\$90.00	\$2,880.00
Trip Charge	5	trip	\$50.00	\$250.00
Project Manager	3	hour	\$115.00	\$345.00
Project Administration	n/a	%	10	\$348.00
Estimated Total for Storm Shelter Services:				\$3,823.00
Project Setup Fee	1	each	\$100.00	\$100.00
Allowance for Sr. Engineer, Site Visits, Compliance Letters, ect.	19	hour	\$165.00	\$3,135.00
Estimated Total for Professional Services:				\$3,235.00
Estimated Total for Above Services:				\$152,201.00
NOT INCLUDED IN REQUIREMENTS OR THE BUDGET				
Tests in excess of above stated quantities or additional tests not listed				
Retesting of any failed tests / observation				
Temporary site curing facility				
Project compliance letter				
The fees listed above for field and laboratory tests, include the equipment necessary to accomplish the task. Fees not listed above are available upon request. Overtime at 1.5 times the normal rate will be billed for time in excess of 8 hours per day and Saturdays, and for time worked before 7 a.m and after 6 p.m. Overtime at 2.0 times the normal rate will be billed for Sundays and holidays.				