

02 32 Geotechnical Investigations

02 32 19 – Exploratory Excavations

02 32 19.10 Test Pits

		Daily Crew	Output	Labor- Hours	Unit	Material	2022 Bare Costs		Total	Total Incl O&P
							Labor	Equipment		
0010	TEST PITS									
0020	Hand digging, light soil	1 Clab	4.50	1.778	C.Y.		81		81	121
0100	Heavy soil	"	2.50	3.200			146		146	217
0120	Loader-backhoe, light soil	B-11M	28	.571			30.50	14.35	44.85	61
0130	Heavy soil	"	20	.800	↓		42.50	20	62.50	85
1000	Subsurface exploration, mobilization				Mile				6.75	8.40
1010	Difficult access for rig, add				Hr.				260	320
1020	Auger borings, drill rig, incl. samples				L.F.				26.50	33
1030	Hand auger								31.50	40
1050	Drill and sample every 5', split spoon				↓				31.50	40
1060	Extra samples				Ea.				36	45.50

02 41 Demolition

02 41 13 – Selective Site Demolition

02 41 13.15 Hydrodemolition

0010	HYDRODEMOLITION									
0015	Hydrodemolition, concrete pavement									
0120	Includes removal but excludes disposal of concrete									
0130	2" depth	B-5E	1000	.064	S.F.		3.23	3	6.23	8.10
0410	4" depth		800	.080			4.04	3.75	7.79	10.15
0420	6" depth		600	.107			5.40	5	10.40	13.50
0520	8" depth	↓	300	.213	↓		10.75	10	20.75	27

02 41 13.16 Hydroexcavation

0010	HYDROEXCAVATION									
0015	Hydroexcavation									
0105	Assumes onsite disposal									
0110	Mobilization or Demobilization	B-6D	8	2.500	Ea.		130	165	295	375
0130	Normal Conditions		48	.417	B.C.Y.		21.50	27.50	49	62
0140	Adverse Conditions		30	.667	"		34.50	44	78.50	100
0160	Minimum labor/equipment charge	↓	4	5	Ea.		260	330	590	750

02 41 13.17 Demolish, Remove Pavement and Curb

0010	DEMOLISH, REMOVE PAVEMENT AND CURB									
5010	Pavement removal, bituminous roads, up to 3" thick	B-38	690	.058	S.Y.		2.97	1.94	4.91	6.55
5050	4"-6" thick		420	.095			4.88	3.20	8.08	10.75
5100	Bituminous driveways		640	.063			3.20	2.10	5.30	7.10
5200	Concrete to 6" thick, hydraulic hammer, mesh reinforced		255	.157			8.05	5.25	13.30	17.75
5300	Rod reinforced		200	.200	↓		10.25	6.70	16.95	22.50
5400	Concrete, 7"-24" thick, plain	↓	33	1.212	C.Y.		62	40.50	102.50	137
5500	Reinforced	↓	24	1.667	"		85.50	56	141.50	189
5600	With hand held air equipment, bituminous, to 6" thick	B-39	1900	.025	S.F.		1.21	.17	1.38	1.99
5700	Concrete to 6" thick, no reinforcing		1600	.030			1.43	.21	1.64	2.37
5800	Mesh reinforced		1400	.034			1.64	.24	1.88	2.70
5900	Rod reinforced	↓	765	.063	↓		3	.43	3.43	4.95
6000	Curbs, concrete, plain	B-6	360	.067	L.F.		3.29	.91	4.20	5.90
6100	Reinforced	↓	275	.087			4.31	1.20	5.51	7.70
6200	Granite	↓	360	.067			3.29	.91	4.20	5.90
6300	Bituminous	↓	528	.045	↓		2.25	.62	2.87	4.03