## 31 22 Grading 31 22 16 - Fine Grading

31 22 16.10 Finish Grading		Daily Crew Output	Labor- Hours	Unit	Material	2022 Labor	Bare Costs Equipment	Total	Total Incl O&P
0010	FINISH GRADING						3	, h	
0012	Finish grading area to be paved with grader, small area	B-11L 400	.040	S.Y.		2.1	2 1.93	4.05	5.30
0100	Large area	2000	.008	70 mm		·; · · .4	2 .39	.81	1.05
1100	Fine grade for slab on grade, machine	1040	.015			.8	2 .74	1.56	2.02
1150	Hand grading	B-18 700	.034	+1		1.5	9   .20	1.79	2.58
3500	Finish grading lagoon bottoms	B-11L   4	4	M.S.F.		212	193	405	525

## 31 23 Excavation and Fill

## 31 23 16 - Excavation

31 23 16.13 Excavating, Tren	ıcl	n	
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	16.13 Excavating, Trench XCAVATING, TRENCH	No. Po.	*************							
0010	Or continuous footing									
0020	Common earth with no sheeting or dewatering included									
0050	1' to 4' deep, 3/8 C.Y. excavator	∗ B-11C	150	107	B.C.Y.		5.65	2.19	7.84	10.80
0060	1/2 C.Y. excavator	[B-11M	200	.080	D.C. I.		4.24	2.01	6.25	8.50
0090	4' to 6' deep, 1/2 C.Y. excavator	[ "	200	.080			4.24	2.01	6.25	8.50
0100	5/8 C.Y. excavator	B-12Q		.064			3.49	2.92	6.41	8.40
0110	3/4 C.Y. excavator	B-12F	300	.053	-		2.91	2.91	5.82	7.55
0300	1/2 C.Y. excavator, truck mounted .	B-12J	200	.080	B.C.Y.		4.36	4.29	8.65	11.20
0500	6' to 10' deep, 3/4 C.Y. excovator	B-12F	225	.071	D.C. 1.		3.88	3.88	7.76	10
0510	1 C.Y. excavator	B-12A	400	.040			2.18	2.28	4.46	5.75
0600	1 C.Y. excavator, truck mounted	B-12K	400	.040			2.18	3.72	5.90	7.35
0610	1-1/2 C.Y. excovator	B-12B		.027			1.45	1.65	3.10	3.97
0900	10' to 14' deep, 3/4 C.Y. excavator	B-12F	200	.080			4.36	4.37	8.73	11.30
0910	1 C.Y. excavator	1 B-12A	360	.044	1 1 1		2.42	2.53	4.95	6.40
1000	1-1/2 C.Y. excavator	B-12B	540	.030			1.61	1.83	3.44	4.41
1300	14' to 20' deep, 1 C.Y. excovator	B-12A	320	.050	. 1		2.73	2.85	5.58	7.20
1310	1-1/2 C.Y. excavator	B-12B	480	.033			1.82	2.06	3.88	4.97
1320	2-1/2 C.Y. excavator	B-12S	765	.021			1.14	1.75	2.89	3.63
1340	20' to 24' deep, 1 C.Y. excavator	B-12A	288	.056	1 1		3.03	3.17	6.20	8
1342	1-1/2 C.Y. excavator	B-12B		.037			2.02	2.29	4.31	5.50
1344	2-1/2 C.Y. excavator	B-12S	685	.023			1.27	1.96	3.23	4.05
1352	4' to 6' deep, 1/2 C.Y. excavator w/trench box	B-13H	188	.085			4.64	5.20	9.84	12.65
1354	5/8 C.Y. excavator	1 "	235	.068			3.71	4.17	7.88	10.10
1356	3/4 C.Y. excavator	. B-13G	282	.057			3.09	3.54	6.63	8.50
1362	6' to 10' deep, 3/4 C.Y. excavator w/trench box		212	.075			4.11	4.70	8.81	11.30
1370	1 C.Y. excavator	B-13D	376	.043	. 1		2.32	2.75	5.07	6.50
1371	1-1/2 C.Y. excavator	B-13E	564	.028	un :		1.55	1.97	3.52	4.47
1374	10' to 14' deep, 3/4 C.Y. excavator w/trench box	B-13G	188	.085			4.64	5.30	9.94	12.75
1375	1 C.Y. excavator	B-13D	338	.047			2.58	3.06	5.64	7.20
1376	1-1/2 C.Y. excovator	B-13E		.032			1.72	2.19	3.91	4.97
1381	14' to 20' deep, 1 C.Y. excavator w/trench box	B-13D		.053			2.90	3.44	6.34	8.10
1382	1-1/2 C.Y. excavator	B-13E	451	.035			1.93	2,47	4.40	5.60
1383	2-1/2 C.Y. excavator	B-13J	720	.022			1.21	2.03	3.24	4.04
1386	20' to 24' deep, 1 C.Y. excavator w/trench box	B-13D	271	.059	,		3.22	3.82	7.04	9
1387	1-1/2 C.Y. excovator	B-13E	406	.039			2.15	2.74	4.89	6.20
1388	2-1/2 C.Y. excovator	B-13J	645	.025			1.35	2.27	3.62	4.51
1391	Shoring by S.F./day trench wall protected loose mat., 4' W	B-6	3200		SF Wall	.90	.37	.10	1.37	1.65
1392	Rent shoring per week per S.F. wall protected, loose mat., 4' W					2.50			2.50	2.75
1395	Hydraulic shoring, S.F. trench wall protected stable mat., 4' W	2 Clab	2700	.006		.23	.27		.50	.66