

LAKE COUNTY
LAK-1-20.03

EARTHWORK				
SHEET NO.	STATION		E-101 ROADWAY PLUS EXCAVATION	EMBANKMENT PLUS 22%
	FROM	TO	CU. YDS.	CU. YDS.
11	703+50	710+00	2,722	54,977
12	710+00	720+00	6,000	86,051
13	720+00	730+00	37,575	2,316
14	730+00	740+00	10,424	10,233
15	740+00	750+00	6,939	50,471
16	750+00	760+00	77,474	1,907
17	760+00	770+00	55,522	6,389
18	770+00	780+00	20,792	46,293
19	780+00	790+00	23,790	12,301
20	790+00	800+00	23,053	41,216
21	800+00	810+00	28,736	4,554
22	810+00	820+00	6,907	51,608
23	820+00	828+00	42,708	24,588
PAINE ROAD				
116	25+50	32+00	5,724	6
FORD ROAD				
127	21+50	25+00	448	1,591
128	25+00	35+00	293	8,095
129	35+00	39+50	854	9,775
TRASK RD. & CHADWICK RD. RELOC.				
140	51+65.4	61+00	1,196	10,817
141	61+00	71+00	2,516	7,555
142	71+00	81+00	4,312	6,051
143	81+00	91+00	6,065	1,008
144	91+00	101+00	3,384	10,979
145	101+00	110+00	2,520	488
TOTALS			369,954	449,269

E-101, COMPACTED SUBGRADE
AREA AS T-71 = 66,445.49 SQ. YDS.
AREA AS B-33 = 41,785.10 SQ. YDS.
SIDE ROADS = 16,687.96 SQ. YDS.
TOTAL 124,918.55 SQ. YDS.

T-71, 10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
TOTAL NET LENGTH AS PER S.R. 1
TYPICAL SECTIONS = 12,458.53 LIN. FT.
WIDTH, 4 LANES @ 12 FT. = 48 FT.
12,458.53 X 48 ÷ 9 = 66,445.49 SQ. YDS.

I-22, SUBBASE
TOTAL NET LENGTH AS PER S.R. 1
TYPICAL SECTION PLUS 3 APPROACH SLABS @ 25 FT. = 12,533.53 LIN. FT.
END AREA, 4 LANES = 39.41 SQ. FT.
12,533.53 X 39.41 ÷ 27 = 18,297.23 CU. YDS.

I-18, STABILIZED CRUSHED AGGREGATE SHOULDER MATERIAL
TOTAL NET LENGTH AS PER S.R. 1
TYPICAL SECTIONS PLUS 3 APPROACH SLABS @ 25 FT. = 12,533.53 LIN. FT.
END AREA 4 LANES = 13.3344 SQ. FT.
12,533.53 X 13.3344 ÷ 27 = 6,189.40 CU. YDS.

B-33, BITUMINOUS MACADAM BASE COURSE
TOTAL LENGTH AS PER I-18 = 12,533.53 LIN. FT.
WIDTH 2 SHOULDERS @ 5 FT. = 10 FT.
WIDTH 2 SHOULDERS @ 10 FT. = 20 FT.
TOTAL WIDTH = 30 FT.
12,533.53 X 30 ÷ 9 = 41,785.10 SQ. YDS.

T-31, BITUMINOUS SURFACE TREATMENT
BITUMINOUS MATERIAL, 2 SEAL OPERATIONS OF .25 GAL PER SQ. YD. OF B-33 EACH
AREA B-33 AS ABOVE = 41,785.10 SQ. YDS.
41,785.10 X 0.25 X 2.0 = 20,892.55 GALS.
NO. 46 AGGREGATE (1st. OPERATION)
APPLIED @ .008 CU. YDS PER SQ. YD. B-33
41,785.10 X .008 = 334.28 CU. YDS.
NO. 6 AGGREGATE (2nd. OPERATION)
APPLIED AT SAME RATE AS NO. 46 AGGREGATE
334.28 CU. YDS.

EDGE LINES
TOTAL NET LENGTH AS PER SHEET NO. 1 = 12,659 FT.
LENGTH 4 EDGES
4 X 12,659 = 50,636 FT.
50,636 ÷ 5,280 = 9.59 MILES

CENTER LINES
TOTAL NET LENGTH AS PER SHEET NO. 1 = 12,659 FT.
2 PAVEMENTS, 15 FT. LINES AND 25 FT. SPACES
12,659 X 2 X $\frac{15}{40}$ ÷ 5,280 = 1.80 MILES

E-11, WATER M - GAL = $\frac{VOL. \times 8}{1000}$	
EMBANKMENT	349,463 - 22%
I-22	20,034
I-18	6,259
B-119	2,054
TOTAL VOLUME C.Y.	377,924
M - GALS	1890

E-4 BORROW	
EMBANKMENT PLUS 22%	449,269
EXCAVATION	369,954
TOTAL	79,315 CU. YDS.