

LAKE COUNTY
LAK-1-16.55

SHEET NO.	STATION		E-101 ROADWAY EXCAVATION	EMBANKMENT PLUS 22%
	FROM	TO	CU. YDS.	CU. YDS.
13	520+00	530+00	4,305	34,376
14	530+00	540+00	16,148	77,566
15	540+00	550+00	25,366	6,600
16	550+00	560+00	40,851	558
17	560+00	570+00	36,786	2,547
18	570+00	580+00	5,566	47,203
19	580+00	590+00	1,609	117,674
20	590+00	600+00	53,559	8,606
21	600+00	610+00	102,608	12,406
22	610+00	620+00	324,446	0
23	620+00	630+02	205,464	8,418
24	630+02	640+07	9,063	483,403
26	640+07	650+13	1,843	744,817
27	650+13	660+20	234,323	151,117
29	660+20	670+26	438,519	0
30	670+26	680+29	106,277	73,727
31	680+29	690+00	48,292	9,453
32	690+00	700+00	81,866	0
33	700+00	703+50	20,438	12
	RAMP E			
320	4+09	10+00	9,034	4,336
	RAMP F			
320	0+50	5+57	28,935	
	RAMP G			
322	0+50	5+31	31,014	4,868
	RAMP H			
323	4+10	8+00	13,673	1,449
	8+00	11+00	385	9,183
	VROOMAN ROAD			
326	22+00	25+00	226	5,653
327	25+00	35+00	2,217	19,936
328	35+00	37+50	271	329
	PATTERSON DRIVE			
329	6+00	19+38.31	5,572	2,667
	GOODRIDGE DRIVE			
367	0+50	4+53.86	228	73
	DR. RT. 23+65			
326		VROOMAN ROAD		384
	TOTALS		1,848,884	1,827,361

B-33, BITUMINOUS MACADAM BASE COURSE
TOTAL LENGTH AS PER I-18
13,509.83 + 4,374.69 = 17,884.52 LIN. FT.
WIDTH 2 SHOULDERS @ 5 FT. = 10 FT.
WIDTH 2 SHOULDERS @ 10 FT. = 20 FT.
TOTAL WIDTH = 30 FT.
17,884.52 X 30 ÷ 9 = 59,615.1 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 = 59,615.1 SQ. YDS.
59,615.1 X 0.25 X 2.0 = 29,807.6 GALS.
NO. 46 AGGREGATE (1st. OPERATION)
APPLIED @ .008 CU. YDS. PER SQ. YD. B-33
59,615.1 X .008 = 476.9 CU. YDS.
NO. 6 AGGREGATE (2nd. OPERATION)
APPLIED AT SAME RATE AS NO. 46 AGGR.
476.9 CU. YDS.

EDGE LINES
TOTAL NET LENGTH AS PER
SHEET NO. 1 = 18,379.51 FT.
LENGTH 4 EDGES
4 X 18,379.51 = 73,518.04 FT.
ADD FOR 2 RAMP EXITS 600 FT.
ADD FOR 2 RAMP ENTR. 1700 FT.
TOTAL LENGTH = 75,818.04 FT.
75,818.04 ÷ 5280 = 14.36 MILES

CENTER LINES
TOTAL NET LENGTH AS PER
SHEET NO. 1 = 18,379.51 FT.
2 PAVEMENTS, 15 FT. LINES AND
25 FT. SPACES
18,379.51 X 2 X $\frac{15}{40}$ ÷ 5,280 = 2.61 MILES

E-11 WATER M-GAL. $\frac{VOL \times 5}{1000}$

EMBANKMENT	1,497,857.0
I-22	31,169.5
I-18	9,697.9
B-119	955.7
TOTAL VOLUME C.Y.	1,539,680.1
M-GALS	7,698

E-101 COMPACTED SUBGRADE
AREA as T-71 = 95,117.44 SQ. YDS.
AREA as B-33 = 59,615.07 SQ. YDS.
TOTAL = 154,732.51 SQ. YDS.

T-71, 10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
TOTAL NET LENGTH AS PER S.R.-1
TYPICAL SECTIONS = 17,834.52 LIN. FT.
WIDTH, 4 LANES @ 12 FT. = 48 FT.
17,834.52 X 48 ÷ 9 = 95,117.44 SQ. YDS.

I-22, SUBBASE
TOTAL NET LENGTH AS PER S.R.-1
NORMAL TYPICAL SECTION = 10,924.12 LIN. FT.
END AREA 4 LANES = 39.41 SQ. FT.
SUPERELEVATED SECTION, PLUS 4 APPROACH
SLABS @ 25 FT. = 4,374.69 LIN. FT.
END AREA, 4 LANES = 40.55 SQ. FT.
ROCK CUT TYPICAL SECTION = 2,585.71 LIN. FT.
END AREA 4 LANES = 53.83 SQ. FT.
10,924.12 X 39.41 ÷ 27 = 15,945.2 CU. YDS.
4,374.69 X 40.55 ÷ 27 = 6,570.1 CU. YDS.
2,585.71 X 53.83 ÷ 27 = 5,155.1 CU. YDS.
TOTAL = 27,670.4 CU. YDS.

I-18, STABILIZED CRUSHED AGGREGATE SHOULDER MATERIAL
TOTAL NET LENGTH AS PER S.R.-1
TYPICAL SECTIONS PLUS 4 APPROACH
SLABS 25 FT. = 17,884.52 LIN. FT.
WIDTH 2 SHOULDERS 5.5 FT. = 11 FT.
WIDTH 2 SHOULDERS 10.5 FT. = 21 FT.
TOTAL WIDTH = 32 FT.
17,884.52 X 32 X $\frac{5}{12}$ ÷ 27 = 8,831.86 CU. YDS.