FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103(29)	

10
280

LAKE COUNTY
LAK-I-22.60

EARTHWORK

SHEET NO.	STATION FROM	STATION TO	E-101 ROADWAY EXCAVATION CU. YDS.	EMBANKMENT PLUS 22% CU. YDS.
16 *	837+80	840+00	616	51,306
18 *	840+00	850+00	29,763	64,016
19 *	850+00 / 858+16	858+16 / 860+00	84,943 / 10,076	
20	860+00	870+00	22,749	22,220
21	870+00	880+00	6368	92,891
22	880+00	890+00	9375	15,764
23	890+00	936+00	7747	23,676
24	936+00	946+00	60,352	6318
25	946+00	956+00	100,931	782
26	956+00	966+00	19,638	38,713
27	966+00	976+00	11,236	56,984
28	976+00	986+00	125,411	
29	986+00	996+00	17,656	93,311
30	996+00	1006+00	59,332	9,556
31	1006+00	1016+00	85,055	930
32	1016+00	1026+00	31,505	15,415
33	1026+00	1036+00	79,705	257
34	1036+00	1046+00	44,630	12,126
35	1046+00	3+00	12,197	18,886
36	3+00	13+00	20,567	11,159
37	13+00	19+00	1672	3819
193	RAMP I		5760	9795
193	RAMP L		2466	23,463
193	RAMP J		3598	18,694
193	RAMP J SPUR			3099
193	RAMP K		507	34,481
	DAYTON ROAD			
178	0+50	10+00	2976	33,857
179	10+00	20+00	1329	14,037
	WOOD ROAD			
175	0+50	2+50	2028	
	RELOC. S.R.307			
147	67+00	74+00	4815	156
148	74+00	83+00	4742	4946
149	83+00	94+00	1197	72,862
150	94+00	104+00	225	59,330
151	104+00	113+00	733	38,185
	DRIVES S.R.307			
151	Rt. Sta. 110+50			90
151	Lt. Sta. 110+50		75	
147	Lt. Sta. 70+50		76	
151	Rt. Sta. 106+00		24	2483
	S.R.528			
221	19+00	25+00	258	13,860
222	25+00	35+00	263	79,493
223	35+00	42+00	1770	15,221
31 & 32	Channel Rt. ℄	1010+00 / 1023+00	5685	
	TOTALS		764,702	846,859

* TO BE INCLUDED IN LAK-I-22.43 AND NOT A PART OF THIS CONTRACT

E-101, COMPACTED SUBGRADE

AREA AS T-71 = 105,511.47 SQ. YDS.
AREA AS B-33 = 65,944.67 SQ YDS.
TOTAL 171,456.14 SQ. YDS.

I-22, SUBBASE

TOTAL NET LENGTH AS PER S.R. I
TYPICAL SECTION = 19,808.40 LIN. FT.
END AREA, 4 LANES = 39.41 SQ. FT.
19,808.40 X 39.41 ÷ 27 = 28,912.91 CU. YDS.

I-18, STABILIZED CRUSHED AGGREGATE SHOULDER MATERIAL

TOTAL NET LENGTH AS PER S.R. I
TYPICAL SECTIONS = 19,783.40 LIN. FT.
WIDTH 2 SHOULDERS @ 5.5 = 11.0 FT.
WIDTH 2 SHOULDERS @ 10.5 = 21.0 FT.
TOTAL WIDTH = 32.0 FT.
19,783.40 X 32 X $\frac{5}{12}$ ÷ 27 = 9,769.58 CU. YDS.

B-33, BITUMINOUS MACADAM BASE COURSE

TOTAL LENGTH AS PER S.R. I
TYPICAL SECTIONS = 19,783.40 LIN. FT.
WIDTH 2 SHOULDERS @ 5 FT. = 10 LIN. FT.
WIDTH 2 SHOULDERS @ 10 FT. = 20 LIN. FT.
TOTAL WIDTH = 30 LIN. FT.
19,783.40 X 30 ÷ 9 = 65,944.67 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 = 65,944.67 SQ. YDS.
65,944.67 X 0.25 X 2.0 = 32,972.34 GALS.
NO. 46 AGGREGATE (1st. OPERATION)
APPLIED @ .008 CU. YDS. PER SQ. YD. B-33
65,944.67 X .008 = 527.56 CU. YDS.
NO. 6 AGGREGATE (2nd. OPERATION)
APPLIED AT SAME RATE AS NO. 46 AGGREGATE
65,944.67 X .008 = 527.56 CU. YDS.

EDGE LINES

TOTAL NET LENGTH AS PER
SHEET NO. 1 = 19,783.40 LIN. FT.
LENGTH 4 EDGES
4 X 19,783.40 = 79,133.60 LIN. FT.
ADD FOR 4 RAMPS 1200.00 LIN. FT.
TOTAL LENGTH 80,333.60 LIN. FT.
80,333.60 ÷ 5,280 = 15.21 MILES

CENTER LINES

TOTAL NET LENGTH AS PER
SHEET NO. 1 = 19,783.40 LIN. FT.
2 PAVEMENTS, 15 FT. LINES AND
25 FT. SPACES
19,783.40 X 2 X $\frac{15}{40}$ ÷ 5,280 = 2.81 MILES

E-11, WATER M-GAL. = $\frac{\text{VOL. X 5}}{1000}$

EMBANKMENT – 22%	694,147
I-22	41,258
I-18	11,475
B-119	9,948
TOTAL VOLUME C.Y.	761,101
M-GALS	3,784

E-4 BORROW

EMBANKMENT PLUS 22%	=	846,859 CU.YDS.
EXCAVATION	=	764,702 CU.YDS.
TOTAL	=	82,157 CU. YDS.

T-71, 10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

TOTAL NET LENGTH AS PER S.R. I
TYPICAL SECTIONS = 19,783.40 LIN. FT.
WIDTH, 4 LANES @ 12 FT. = 48 FT.
19,783.40 X 48 ÷ 9 = 105,511.47 SQ. YDS.