

LAKE COUNTY
LAK-2-7.39

REV. 11-4-58

This sheet replaces Sheet No. 12 of the original plans.

EARTHWORK				
SHEET NO.	STATION		E - IOI ROADWAY EXCAVATION	EMBANKMENT PLUS 20%
	FROM	TO	CU. YDS.	CU. YDS.
20	290+00	295+00	278	33,418
21	295+00	305+00	918	66,308
22	305+00	315+00	321	51,506
23	315+00	325+00	1,074	31,186
24	325+00	335+00	930	40,861
25	335+00	345+00	998	54,342
26	345+00	355+00	2,505	60,368
27	355+00	365+00	869	52,010
28	365+00	375+00	146	49,610
29	375+00	385+00	183	53,638
30	385+00	395+00	1185	69,828
31	395+00	405+00	0	111,073
32	405+00	415+00	19	67,602
33	415+00	425+00	8,448	4,410
34	425+00	435+00	34,711	0
35	435+00	445+00	33,983	14,214
36	445+00	447+60	7,821	751
RELOCATION VINE ST.				
82	64+97.60	75+00	565	2,018
83	75+00	85+00	780	2,081
84	85+00	95+00	237	7,099
85	95+00	105+00	590	6,143
86	105+00	115+00	104	2,236
87	115+00	125+00	238	2,707
88	125+00	135+00	124	6,138
89	135+00	145+00	170	5,032
90	145+00	155+00	317	8,569
91	155+00	164+50	379	3,156
RECONSTRUCTION S.R. 615				
119	19+40	25+00	1,249	776
120	25+00	35+00	1,587	4,782
121	35+00	45+65	3,714	1,727
RAMP "Q"				
147	5+00	13+00	94	21,940
RAMP "S"				
153	4+00	11+50	81	17,111
RAMP "T"				
159	2+00	12+00	503	27,040
RAMP "V"				
165	4+00	13+00	773	6,643
RECONSTRUCTION MUNSON ROAD				
175	19+50	25+00	1,679	980
176	25+00	35+00	711	25,064
177	35+00	37+00	283	161
RELOCATION HOPKINS ROAD				
190	27+49.14	36+00	2,894	10,876
191	36+00	41+50	1,150	2,422
RELOCATION VINE STREET NORTH				
201	0+10	8+00	199	3,046
202	8+00	18+00	1,971	5,784
203	18+00	28+00	5,844	8,212
204	28+00	32+50	341	91
RELOCATION CLOVER AVE.				
118	0+09	1+60	109	168
OAKDALE ROAD				
140	0+34	0+76	84	0
BELLFLOWER ROAD				
141-142	0+34	0+83	126	0
S.R. 615 DRIVES				
143	20+90 RT.		0	35
143	33+50 LT.		6	0
143	34+29 LT.		8	0
143	35+09 LT.		7	2
143	36+54 LT.		10	0
143	37+24 LT.		13	0
143	38+80 LT.		9	1
144	39+44 RT.		31	65
143	40+50 LT.		29	0
143	41+50 LT.		24	0
143	42+66 LT.		28	0
144	43+24 LT.		34	0

EARTHWORK				
SHEET NO.	STATION		E - IOI ROADWAY EXCAVATION	EMBANKMENT PLUS 20%
	FROM	TO	CU. YDS.	CU. YDS.
MUNSON ROAD DRIVES				
187	19+86 LT.		5	0
187	20+41 LT.		27	6
188	21+98 LT.		45	0
188	22+74 LT.		33	0
188	24+75 LT.		1	187
189	25+83 LT.		0	835
HOPKINS ROAD DRIVES				
189	28+50 RT.		21	0
TOTAL			121,616	944,258

L-9 SEEDING	
RELOC. S.R. 2	281,395 SQ. YDS.
RECONSTR. SR. 615	14,559 SQ. YDS.
RAMPS	33,809 SQ. YDS.
TOTAL	329,763 SQ. YDS.

L-9 COMMERCIAL FERTILIZER	
$\frac{329,763 \times 9 \times 20}{1,000 \times 2,000}$	30 TONS

SHEET NO.	STATION		E - 3 CHANNEL EXCAVATION
	FROM	TO	C. Y.
40	419+50 RT.	26+85 LT. MUNSON	7,355
202	28+00	31+40	558
202	29+45	30+45	7,007
TOTAL			14,920

SUMMARY OF EARTHWORK

TOTAL EARTHWORK EXC 121,616 EMB. 786,882

E-2 SHEET 16 1,665
E-3 SHEET 16 20,295

TOTALS EXC. 143,576 EMB. 786,882

LESS SHRINK AVAILABLE FOR FILL 119,647 786,882
NET REQ'D EMB. 667,235
+20% 133,447

BORROW 800,682

E-IOI COMPACTED SUBGRADE			
AREA AS T-71	=	81,730.13	SQ. YDS.
AREA AS I-18	=	50,066.86	SQ. YDS.
AREA AS APPR SLAB	=	533.33	SQ. YDS.
TOTAL	=	132,330.32	SQ. YDS.

T-71-10" REINF. PORTLAND CEM. CONC. PAVEMENT			
S.R. 2 NET PAVEMENT LENGTH	=	15,324.40	LIN. FT.
WIDTH, 4 LANES @ 12 FT.	=	48	FT.
15,324.40 x 48 ÷ 9	=	81,730.13	SQ. YDS.

I-22 SUBBASE			
S.R. 2 NET SUBBASE LENGTH	=	15,424.40	LIN. FT.
NORMAL SECTION - 10,668.29 x 42.20 ÷ 27	=	16,674.14	CU. YDS.
SUPER TRANSITION SECTION - 1,180.25 x 41.73 ÷ 27	=	1,824.14	CU. YDS.
SUPER SECTION - 3,575.86 x 41.27 ÷ 27	=	5,465.77	CU. YDS.
NEGATIVE VOLUME IN RAMP AREA	=	-772.14	CU. YDS.
TOTAL	=	23,191.91	CU. YDS.

I-18-STAB. CRUSHED AGGREGATE SHOULDER MATL.			
S.R. 2 NET SUBBASE LENGTH	=	15,424.40	LIN. FT.
NORMAL SECTION - 11,305.36 x 31.83 x 0.4167	=	149,964.88	CU. FT.
SUPER SECTION - 4,119.04 x 31.42 x 0.4167	=	53,929.41	CU. FT.
NEGATIVE VOLUME IN RAMP AREA	=	-16,143.67	CU. FT.
TOTAL	=	187,750.62	CU. FT.
	=	6,953.73	CU. YDS.

B-33 BITUMINOUS MACADAM BASE COURSE			
S.R. 2 NET SUBBASE LENGTH	=	15,424.40	LIN. FT.
15,424.40 x 30.00	=	462,732.00	SQ. FT.
NEGATIVE VOLUME IN RAMP AREA	=	-37,796.80	SQ. FT.
TOTAL	=	424,935.20	SQ. FT.
	=	47,215.02	SQ. YDS.

T-31 BITUMINOUS SURFACE TREATMENT			
BITUMINOUS MATERIAL, 2 SEAL OPERATIONS OF 0.25 GAL. PER SQ. YD. OF B-33 EACH. AREA B-33 AS ABOVE = 47,215.02 SQ. YD.			
47,215.02 x 0.25 x 2 = 23,607.51 GALS.			
NO. 46 AGGREGATE (1st. OPERATION) APPLIED @ 0.008 CU. YDS. PER SQ. YD. B-33 47,215.02 x 0.008 = 377.72 CU. YDS.			
NO. 6 AGGREGATE (2nd. OPERATION) APPLIED AT SAME RATE AS NO. 46 AGGREGATE 377.72 CU. YDS.			

E-II WATER M-GAL	VOL. x 5 / 1,000	E-II WATER M-GAL	VOL. x 5 / 1,000
EMBANKMENT	786,882	B-119	7,323
I-22	33,370	TOTAL VOLUME CU. YD.	836,817
I-18	9,253	M- GALS.	4,184