

# SUMMARY OF QUANTITIES

\*ADDITIONAL SEEDING QUANTITIES CALCULATED FROM CONSTRUCTION LIMITS TO R/W LINES  
 \*\*BASEMENT VOLUMES CALCULATED FROM FIELD MEASUREMENTS  
 \*\*\*INSIDE PAVED BERM REVISED FROM 5' TO 4'

EXCAVATION, EMBANKMENT, & SEEDING QUANTITIES							
SHEET NO.	LOCATION	STATION		E-1 EXCAVATION CU. YDS.	EMBANKMENT CU. YDS.	EMB. + 18% CU. YDS.	L-9 SEEDING SQ. YDS.
		FROM	TO				
16	S.R. 44	216+75	220+00	23,376	183	216	6,849
17		220+00	230+00	103,907	0	0	21,367
18		230+00	240+00	46,764	2,208	2,606	15,082
18		240+00	250+00	42,609	0	0	15,841
19		250+00	260+00	67,154	85	100	16,719
20		260+00	263+00	28,781	57	67	4,934
115	RAMP "A"	0+275	6+00	4,900	4,685	5,528	9,279
116	RAMP "B"	0+26	5+50	2,453	1,517	1,790	4,823
* ADDITIONAL SEEDING QUANTITIES							17,489
*** REVISIONS IN TYPICAL SECTIONS				-448	32	38	
TOTALS				319,496	8,767	10,345	112,383
21	S.R. 44	281+50	290+00	69,158	21,040	24,827	25,260
22		290+00	296+00	681	25,551	30,150	13,753
130	U.S. 20	6+21.68	13+30	355	68	80	797
* ADDITIONAL SEEDING QUANTITIES							4,036
*** REVISIONS IN TYPICAL SECTIONS				-69	65	77	
** EXCAVATION DEDUCTION FOR BASEMENTS				-1,041			
** EMBANKMENT ADDITION FOR BASEMENTS					144	170	
8	EXCAVATION OF UNSUITABLE MATERIAL			564	564	666	
TOTALS				69,648	47,432	55,970	43,846
20	S.R. 44	263+00	270+00	78,466	0	0	11,778
20		270+00	272+19.93	29,548	0	0	2,908
* ADDITIONAL SEEDING QUANTITIES							3,027
*** REVISIONS IN TYPICAL SECTIONS				-85	0	0	
52	STRUCTURE BACKFILL(LAK-44-0483)				1,285	1,516	
TOTALS				107,929	1,285	1,516	17,713
21	S.R. 44	272+19.93	280+00	138,941	0	0	14,948
21		280+00	281+50	25,656	0	0	3,030
22		296+00	300+00	760	33,387	39,397	9,738
23		300+00	305+47.27	1,114	88,397	104,308	17,234
* ADDITIONAL SEEDING QUANTITIES							5,438
*** REVISIONS IN TYPICAL SECTIONS				-86	88	104	
** EXCAVATION DEDUCTION FOR BASEMENTS				-1,572			
** EMBANKMENT ADDITION FOR BASEMENTS					195	230	
TOTALS				164,813	122,067	144,039	50,388
23	S.R. 44	305+47.27	310+00	1,120	105,149	124,076	16,433
23		310+00	312+45	199	20,286	23,937	5,405
82	RAMP "G"	0+00	10+00	1,094	117,433	138,571	22,040
83		10+00	14+00	702	27,731	32,723	9,225
101	RAMP "E"	33+00	40+00	493	61,188	72,202	11,493
102		40+00	46+97.96	552	86,770	102,389	10,140
* ADDITIONAL SEEDING QUANTITIES							7,664
*** REVISIONS IN TYPICAL SECTIONS				0	174	205	
TOTALS				4,160	418,731	494,103	82,400
83	RAMP "G"	14+00	19+81.87	1,501	11,319	13,356	11,750
84	RAMP "F"	12+00	18+42.04	0	0	0	4,654
101	RAMP "E"	29+00	33+00	1,753	13,311	15,707	6,877
* ADDITIONAL SEEDING QUANTITIES							3,121
*** REVISIONS IN TYPICAL SECTIONS				0	38	45	
TOTALS				3,254	24,668	29,108	26,402
GRAND TOTALS				669,300	622,950	735,081	333,132

EARTHWORK RECAP			
SHEET NO.	DESCRIPTION	AVAILABLE EMBANKMENT CU. YDS.	REQUIRED EMBANKMENT+18% CU. YDS.
9	EMBANKMENT		735,081
13A	E-1 ROADWAY EXCAVATION	669,394	
156	E-2 STRUCTURE EXCAVATION LAK. 44-0483	2,100	
171	E-2 STRUCTURE EXCAVATION LAK. 44-0489	590	
180	E-2 STRUCTURE EXCAVATION LAK. 44-0505	436	
187	E-2 STRUCTURE EXCAVATION LAK. 44-0556	1,135	
14A	E-3 CHANNEL EXCAVATION	23,345	
13A	E-8 REMOVAL & DISPOSAL OF SIDEWALK	110	
13A	E-8 REMOVAL & DISPOSAL OF PAVEMENT	1,145	
8	DEDUCT FOR UNSUITABLE EXCAVATION	-564	
GRAND TOTAL		697,691	
GRAND TOTAL E-4 BORROW			37,390

E-4 BORROW			
SHEET NO.	DESCRIPTION	AVAILABLE EMBANKMENT CU. YDS.	REQUIRED EMBANKMENT+18% CU. YDS.
9	EMBANKMENT		29,108
13-A	E-1 ROADWAY EXCAVATION	3,254	
14-A	E-3 CHANNEL EXCAVATION	13,585	
TOTAL		16,839	29,108
E-4 BORROW (F-388 (12))			12,269
GRAND TOTAL E-4 BORROW			37,390
DEDUCT E-4 BORROW (F-388 (12))			12,269
E-4 BORROW (FG-388 (12))			25,121

SECTION	L-9 SEED. & PROT.	L-10 & L-120	L-9 AREA FERT. & LIME. L-9(SQ.YDS. X 9) = L-10 L-120	L-9 AGRICULTURAL LIMING		L-9 COMMERCIAL FERTILIZER	
				L-9(SQ.FT.) X 100 = 1,000	2,000	L-9(SQ.FT.) X 20 = 1,000	2,000
RURAL	MUNICIPAL	SQ. YDS.	SQ. FT.	TONS	TONS	TONS	TONS
U-388(12)		110,013	2370	1,011,447	50.57	10.11	
	U-388(12)	43,546	300	394,614	19.73	3.95	
UG-388(12)		17,457	256	159,417	7.97	1.59	
	UG-388(12)	50,388		453,492	22.67	4.53	
FG-388(12)		81,814	586	741,600	37.08	7.42	
	F-388(12)	26,402		237,618	11.88	2.38	
GRAND TOTALS		329,620	3,512	2,998,188	149.90	29.98	

ITEM SPECIAL		
U-388(12) RURAL	MIXING CALCIUM CHLORIDE & AGGR.	
	160 CU. YDS.(I-18) @ 6" DEPTH = 960 SQ. YDS.	

M-10 CALCIUM CHLORIDE		
U-388(12) RURAL	CALCIUM CHLORIDE @ 2.1 LB./SQ. YD.	
	960 X 2.1 = 2,016 = 1.01 TONS	

E-1 COMPACTED SUBGRADE						
SECTION	SH.NO.13A T-71	SH.NO.13A I-7	SH.NO.13A T-31X4	SH.NO.13A B-70	E-1 TOTAL SQ. YDS.	
RURAL						
U-388(12)	30,747		15,124		45,871	
	U-388(12)	16,132	469	6,400	1035	24,036
UG-388(12)	4,906		2,880		7,786	
	UG-388(12)	10,012		5,080		15,092
FG-388(12)	9,721	268	5,784		15,773	
	F-388(12)	2,134		1,248		3,382

E-11 WATER							
SECTION	SH.NO.9 EMB+18%	SH.NO.13A I-18	SH.NO.13A I-22	SH.NO.13A B-112	TOTAL VOLUME CU. YDS.	E-11 TOTAL VOLUME X.003 M-GAL CU. YD.	
RURAL							
U-388(12)	10,345	160	9,336	1,966	21,807	109	
	U-388(12)	55,970	37	4,027	733	60,767	304
UG-388(12)	1,516		1,255	458	3,229	16	
	UG-388(12)	144,039		2,516	680	147,235	836
FG-388(12)	494,103		2,594	801	497,498	2,487	
	F-388(12)	29,108		564	162	29,834	149

ITEM 55.CE-101.04 COMPACTING USING HEAVY PNEUMATIC TIRED ROLLER			
SECTION	E-1 COMPACTED SUBGRADE	COMPACTED SUBGRADE 2 000	ITEM 55.CE-101.04 COMPACTION TIME HOURS
RURAL			
U-388(12)	45,871		23
	U-388(12)	24,036	12
UG-388(12)	7,786		4
	UG-388(12)	15,092	7
FG-388(12)	15,773		8
	F-388(12)	3,382	2
TOTAL		111,940	56