

SUMMARY OF QUANTITIES

ROADWAY

LAKE COUNTY
S.H. 520 SEC. PAINESVILLE (PT)
S.H. 744 SEC. PAINESVILLE (PT)
& FAIRPORT (PT)

SHEET NO.	I-2 STORM SEWERS				I-8 RESET TO GRADE				I-10		I-10 SEALING		I-15 GUARD RAIL		I-17		E-8 REMOVAL & DISPOSAL OF EXISTING			E-9 REMOVAL	I-14 PAVED	L-10	I-8 No.	S-122	S-22				
	CHAN. EXC. CU. YDS	10"	12"	18"	(I-5) EACH	M.H.	C.B.	W.V.	MON. BOX	RIP RAP ONLY EDGE EXIST.	PAV'T-LIN. FT.	REM. & REBUILD	REM. & STORE	CU. YDS	SD. APPR'S	LF	PAVEMENT	WEAR COURSE	CURB & GUTTER	OF TREES	GUTTER (TYPE 3)	SODDING	16 C.B.	C.B. Aban.	Rem. of Pav. of Ex.				
PAINESVILLE (PT)																													
4					5	4	3							755															
5					3	1	3							129.5															
6			4		4	1								1775				47		245		1.4							
7																		5				2.3							
FROM STRUCTURE TABLE	18																					6							
Total	18		4		12*	6	6					27		3825				47		245		3.7							
FAIRPORT (PT)																													
* Not a part of this contract.																													
7			24											2519				616											
8		57												2280				112				3.8					0.6		
9														2400															
10														953															
11						5																							
12			29			2																							
13																													
TO STRUCTURE																													
Total	57	53			2	7						6		6152				788				3.8							

EARTHWORK				
FROM	TO	EXCAVAT.	EMBANK	EMB+45%
PAINESVILLE				
28+00	33+00	1141	166	241
33+00	37+39.5	891	2088	3027
From Sheet 5		382	53	17
TOTALS		2414	2307	3345
FAIRPORT				
40+56	45+00	6	1900	2755
45+00	57+00	414	339	492
57+00	69+00	258	127	184
69+00	81+00	140	154	223
81+00	86+28	62	29	42
TOTALS		880	2549	3696

BORROW

PAINESVILLE (PT) 3345 - 2414 = 931 CY
 FAIRPORT (PT) 3696 - 880 = 2816 CY

E-305 & L-9
 SEEDING & PROTECTING ROADWAY AREA'S
 PAINESVILLE (PT) STA. 28+25 TO 37+25 5300 SQ.YDS
 FAIRPORT HARBOR (PT) STA. 40+56.2 TO 61+00 6900 SQ.YDS

EXTRA LEVELING (PAINESVILLE PT)
 0+00 to 29+47 = 2947 LF = 0.56 Mile
 .56 x 175 Cu.Yds per mile = 98.0 Cu.Yds

FAIRPORT (PT)
 45+25 to 86+28 = 4103 LF = 0.78 Mi. x 175 = 136.5 Cu.Yds
 86+28 to 96+10 = 982 LF = .19 Mi. x 225 = 42.7 Cu.Yds
 Total = 179.2 Cu.Yds

STRUCTURES ~ 20' SPAN & UNDER														
MARK	SHEET NO.	TYPE	STATION	5-23 DOWEL HOLES EACH	E-2 EXC. FOR STRUCT. C.Y.	E-3 CHANNEL EXCAV. CU. YDS	I-8 NO. MOD. C.B. EACH	I-10 NO. 12" GROUTED RIP RAP TYPE A SQ.YDS	S-1 CLASS-E CONC. FOR STRUCT'S CU.YD	S-27 PIPE FOR CULVERTS LIN. FT.	E-12 PIPE REM. & STORED 15' & UNDER LIN. FT.	S-22 REMOVAL OF PORTIONS OF EXISTING MASONRY CU.YDS		
PAINESVILLE (PT)														
C-1		3'x3' C.B. TOP	32+75	4	5					0.2		0.2		
C-2		PIPE CULVERT	33+72		35	18	1	17		4	6	50		
C-3		PIPE CULVERT	35+01.55			18		17		68	6	50		
TO RDWY				4	40			17		4	68	52		
TOTAL										0.2	4	68	52	
FAIRPORT (PT) & BORROW (PT)														
C-4		PIPE CULV'T EXT.	45+94	4	3					0.8	12	0.6		
FROM RDWY TABLE					200									
FROM SHIT 25					204	3						0.6		
TOTAL										0.8	12	0.6		

PAVEMENT CALCULATIONS

PAINESVILLE (PT)
 PAVEMENT-30 Bituminous Prime Coat
 1162 Sq.Yds (Sheet 21) + 1343 Sq.Yds (Sheet 22) = 2505 Sq. Yds
 2505 x .10 Gal = 250.5 gallons

FAIRPORT (PT)
 PAVEMENT-30 Bituminous Prime Coat
 1115 Sq.Yds (Shit 3) + 50 Sq.Yds (Shit 24) + 1096 Sq.Yds (Shit 25) + 107 Sq.Yds (St. Clair) + 40 Sq.Yds (New St) + 44 Sq.Yds (1st St) + 26 Sq.Yds (E.S. Switch) + 7330 Sq.Yds (Sta 49 + 21.78 to 86+28 (18' W)) + 2029 Sq.Yds (Sta. 86+28 to 92+80 (28' W)) = 11837 Sq.Yds
 11837 x .10 Gal = 1183.7 gallons

T-35 1/4" Asphaltic Concrete Surface Course
 Sta. 0+00 to 16+03.67 = 1603.67 Lin. Ft. SQ.YDS CU.YDS
 (1603.67 x 24) ÷ 9 = 4276.4 148.5
 Intersection ~ Sta. 0+00 to 1+45 (See Sheet 4) = 805.0 28.0
 Wedge Sta. 1+45 to 2+00 (See Sheet 4) = 15.3 0.6
 Sta. 16+03.67 to 24+08.32 (See Sheet 21) = 2165.6 96.0
 Sta. 24+08.32 to 31+50. (See Sheet 22) = 1978.0 68.6
 Sta. 31+50 to 37+39.5 (See Sheet 23) = 1507.0 52.3
 Sanford St (See Sheet 6) = 66.0 2.3
Totals 11413.3 396.3

B-35 Asphaltic Concrete Leveling Course
 11413.3 Sq.Yds x 1/4 / 36 = 396.3 Cu.Yds
 Deduction for feathering on left from Sta. 1+50 to 16+25 = 7.1 Cu.Yds
 396.3 - 7.1 = 389.2 Cu.Yds + 98.0 (Extra Leveling) + 91.0 Cu.Yds (Sheet 21) + 52.9 Cu.Yds (Sheet 22) + 1149.8 x 3 ÷ 36 = 95.8 = 726.9 Cu.Yds (2409.5 x 3 ÷ 36 = 200.8 Cu.Yds)
B-35 Asphaltic Concrete Base Course
 Sta. 1+45 to 16+03.67 = 1458.67 LF SQ.YDS CU.YDS
 (1458.67 x 7) ÷ 9 = 1134.5 94.5
 Wedge Sta. 1+45 to 2+00 = 15.3 Sq.Yds x 3/36 = 1.3 Cu.Yds
 16+03.67 to 24+08.32 (See Sheet 21) = 51.0 Cu.Yds
 24+08.32 to 31+50. (See Sheet 22) = 52.9 Cu.Yds
 31+50 to 37+39.5 (See Sheet 23) = 251.2 Cu.Yds
 Merging Widening (See Sheet 22) = 4.0 Cu.Yds
Total = 451.9 Cu.Yds

I-19 Insulation Course
 1134.9 + 15.3 + 612 + 634.3 + 6 + 1507 = 3909.5 Sq.Yds 1157.9 + 458.7 + 2409.5 + 55 = 4081.1 Sq.Yds

I-11 Stone Curb
 Sta. 35+75 To Sta. 37+40 (Rt. Side Only) (See Sheet 23) = 165 Lin. Ft. Sta. 40+56 to Sta. 42+97 (See sheet 24) = 241 Lin. Ft.
 I-12 6"x 18" Concrete Curb - (From Sheet 3) = 199 Lin Ft.

I-117 Traffic Bound Side Approaches
 Sta. 1+45 to 16+25 (Rt. Side) = (1480 x 4 x 0.17) ÷ 27 = 37.3 Cu.Yds. Sta. 62+00 to 86+28 = 2428 LF (Both Sides) (4856 x 4 x 0.17) ÷ 27 = 122.3 CY
 Sta. 16+25 to 28+25 (Both Sides) = (2400 x 4 x 0.17) ÷ 27 = 60.4 Cu.Yds. From Summary Tables = 3.8 CY
 From Summary Table = 3.7 Cu.Yds. **Total** = 126.1 CY
Total = 101.4 Cu.Yds.
 101.4 + 15% = 117.7 Cu.Yds 126.1 + 15% = 145.0 Cu.Yds

GENERAL SUMMARY					
ITEM	DESCRIPTION	PAINESVILLE (PT)	FAIRPORT (PT)	TOTAL	UNIT
ROADWAY					
E-1	Roadway Excavation (Unclassified)	2441	880	3321	CY
E-3	Channel Excavation	18		18	CY
E-4	Borrow	931	2816	3747	CY
E-8	Removal & Disposal of Existing Pavement	1374	888	2262	SQ
E-8	Removal & Disposal of Existing Wearing Course		177	177	SQ
E-8	Removal & Disposal of Existing Curb & Gutter		190	190	LF
E-9	Removal of Trees and Stumps	18	1	19	Ea
I-10	Sealing only of Existing Pavement Edge.	3825	8152	11977	LF
I-11	Water	11	13	24	MGal
I-12	Pipe removed & stored (15' and under)	6		6	LF
I-2	10" Pipe for Storm Sewers		57	57	LF
I-2	12" Pipe for Storm Sewers		53	53	LF
I-2	18" Pipe for Storm Sewers		4	4	LF
I-5	10" Pipe Specials for Storm Sewers		2	2	Ea
I-8	No. 16 Catch Basin		3	3	Ea
I-8	Catch Basins reset to grade.	6	7	13	Ea
I-8	Water Valves reset to grade.	6		6	Ea
I-8	Monument Box reset to grade		1	1	Ea
I-10	Type A Rip Rap	27	6	33	SQ
I-14	Paved Gutter (Type 3)	72		72	LF
I-15	Guard Rail removed and rebuilt.	47	788	835	LF
I-15	Guard Rail removed and stored.	245		245	LF
I-117	Side Approaches, Mail box, Turnouts and Berm Material.	117	145	262	CY
S-122	Catch Basin Abandoned		1	1	Ea
I-9	Stone Underdrain (Sheet 3) as per plan.	140	210	350	LF
I-10	Concrete for Island Ends (Sheet 25)		0.8	0.8	CY
T-35	Asphaltic Concrete Surface Course Type "A"	396	567	963	CY
B-35	Asphaltic Concrete Leveling Course	727	1005	1732	CY
B-35	Asphaltic Concrete Base Course	452	435	887	CY
I-11	6" x 18" Stone Curb as per plan Shit. 23	165	241	406	LF
I-12	6" x 18" Concrete Curb Type 6		199	199	LF
I-12	Type 2 Curb Modified (From Sheet 25) as per plan	335	336	671	LF
I-19	1/2" Insulation Course	3910	4081	7991	SQ
Special	4" to 5" Granulated Slag Base Course for Islands - Grade "B"		117	117	SQ
T-30	Bituminous Prime Coat including sand cover, Sec. M-6.5 MS-1	251	1184	1435	Gal
I-8	No. 2 Manhole Modified as per plan.	1		1	Ea
I-8	No. 1-2A STANDARD CATCH BASIN				Ea
S-1	Class E Concrete for Structures	0.2	0.8	1	CY
S-22	Removal of Portions of Exist. Masonry	5.2	0.6	5.8	CY
S-27	12" Pipe for Roadway Culverts	4	12	16	LF
S-27	60" Pipe for Roadway Culverts	68		68	LF
S-23	Dowel Holes	4	204	208	Ea
E-2	Excavation for Structures	40	3	43	CY
ROADWAY CONTINUED					
L-9	Commercial Fertilizer 4-12-4	954	1242	2196	Lbs
L-10	Sodding	60	80	140	SQ
E-305	Seeding and Protecting Roadway Area's	5300	6900	12200	SQ