

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

8
57

LAKE COUNTY
LAK. - 2 - 1.80

QUANTITY CALCULATIONS
BY K.N.M. DATE 2/2/73
CHKD. J.A.W. DATE 2/2/73
F. A. THOMAS & ASSOC. INC.

ITEM 409 SEAL COAT COVER AGGREGATE N^o. 8

LAKELAND BOULEVARD (WEST)				
	STA: 1+20 TO STA: 1+74	4 L.F. x 54 L.F. ÷ 9 x 0.008 CU. YDS.	=	.19 CU. YDS.
	STA: 2+20 TO STA: 3+65	4 L.F. x 145 L.F. ÷ 9 x 0.008 CU. YDS.	=	.52
	STA: 4+16 TO STA: 5+50	(8 L.F. + 4 L.F.) ÷ 2 x 134 L.F. ÷ 9 x 0.008 CU. YDS.	=	.71
	STA: 5+50 TO STA: 5+60	10 L.F. x 10 L.F. ÷ 9 x 0.008 CU. YDS.	=	.09

LAKELAND BOULEVARD (EAST)				
	STA: 1+00 TO STA: 1+57	4 L.F. x 57 L.F. ÷ 9 x 0.008 CU. YDS.	=	.20
	STA: 2+00 TO STA: 3+10	4 L.F. x 110 L.F. ÷ 9 x 0.008 CU. YDS.	=	.39
	STA: 3+38 TO STA: 4+76	(4 L.F. + 8 L.F.) ÷ 2 x 138 L.F. ÷ 9 x 0.008 CU. YDS.	=	.74
	TOTAL		=	3 CU. YDS.

ITEM 451 7" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

FOREST GROVE ROAD				
	STA: 1+2469 TO STA: 1+92.27	25 L.F. x 6758 L.F. ÷ 9	=	187.7 SQ. YDS.
	STA: 1+2469 (CUL-DE-SAC)	(3.1417 x 37.5 ² x (253° ÷ 360°)) ÷ 9	=	345.0
	STA: 1+24.69 TO STA: 1+59	(13 L.F. + 25 L.F.) ÷ 2 x 34.31 L.F. ÷ 9	=	72.4
	STA: 1+59 TO STA: 1+67	1/2 (8 L.F. x 25 L.F.) ÷ 9	=	11.1
	STA: 1+59 TO STA: 1+92.27	(2552 L.F. x 36.5 - 3.1417 x 36.5 ² x (69.20° ÷ 360°)) ÷ 9	=	14.1
	TOTAL		=	630 SQ. YDS.

ITEM 451 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

EAST 305 th. STREET				
	STA: 1+76 TO STA: 3+82	4 L.F. x 206 L.F. ÷ 9	=	91.6 SQ. YDS.
	TOTAL		=	92 SQ. YDS.

ITEM 451 10" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

RAMP N ^o . 5				
	STA: 11+34 TO STA: 14+98	1/2 (2 L.F. + 16 L.F.) x 364 L.F. ÷ 9	=	364.0 SQ. YDS.
	STA: 14+98 TO STA: 15+45.04	47.04 L.F. x 16.5 L.F. ÷ 9	=	86.2
	TURNOUT (LEFT)	2155.70 SQ. FT. ÷ 9	=	239.5

RAMP N ^o . 8				
	STA: 13+68 TO STA: 16+50	1/2 (2 L.F. + 20 L.F.) x 282 L.F. ÷ 9	=	344.7
	STA: 16+50 TO STA: 18+23	20 L.F. x 173 L.F. ÷ 9	=	384.4
	TURNOUT (LEFT)	1843.90 SQ. FT. ÷ 9	=	204.9
	TOTAL		=	1,624 SQ. YDS.

ITEM 608 CONCRETE WALK

FOREST GROVE ROAD				
	STA: 0+43 (LEFT & RIGHT)	5 L.F. x 65 L.F.	=	325 SQ. FT.
	STA: 1+00 (RIGHT)	3 L.F. x 8 L.F.	=	24
	STA: 1+67 TO STA: 1+75	5 L.F. x 8 L.F.	=	40
RAMP N ^o . 8				
	STA: 18+92 (LEFT)	5 L.F. x 6 L.F.	=	30
	TOTAL		=	419 SQ. FT.

ITEM 609 CURB, TYPE 2A

FOREST GROVE ROAD				
	STA: 1+24.69 TO STA: 1+92.27 (RIGHT)		=	68 L.F.
	CUL-DE-SAC		=	163
	TURNOUT		=	45

RAMP N ^o . 5				
	STA: 14+95 TO STA: 15+45.04		=	50
	TURNOUT (LEFT)		=	138
	AROUND ISLAND (LEFT)		=	72

RAMP N ^o . 8				
	STA: 18+20 TO 19+03		=	88
	TOTAL		=	624 L.F.

ITEM 609 CURB, TYPE 6

RAMP N ^o . 5				
	TANGENT (LEFT)		=	34 L.F.
	STA: 15+75.50 TO STA: 15+91.49		=	16

TOTAL = 50 L.F.

ITEM 612 4" CONCRETE TRAFFIC ISLAND

RAMP N ^o . 5				
	CONCRETE ISLAND	480 SQ. FT. x 0.33 FT. ÷ 27	=	5.9 CU. YDS.
	TOTAL		=	6 CU. YDS.

ITEM 659 COMMERCIAL FERTILIZER (12-12-12)

SEEDING & MULCHING TOTAL FROM EARTH WORK SUMMARY				
SEE SUMMARY TABLES - SHEET N ^o . 11	3,736 SQ. YDS. x 0.00009 TONS/SQ. YDS.	=	0.34 TONS	
REPAIR SEEDING & MULCHING - SHEET N ^o . 10	350 SQ. YDS. x 0.00009 TONS/SQ. YDS.	=	0.03	
TEMPORARY SEEDING & MULCHING - SHEET N ^o . 10	1,400 SQ. YDS. ÷ 2 x 0.00009 TONS/SQ. YDS.	=	0.06	
TOTAL		=	0.43 TONS	

ITEM 659 AGRICULTURAL LIMING

SEEDING & MULCHING TOTAL FROM EARTH WORK SUMMARY				
SEE SUMMARY TABLES - SHEET N ^o . 11	3,736 SQ. YDS. x 0.00045 TONS / SQ. YD.	=	1.68 TONS	
TOTAL		=	1.68 TONS	

ITEM 660 SODDING

RAMP N ^o . 5				
	STA: 13+88 TO STA: 15+38	150 L.F. x 6 L.F. ÷ 9	=	100.0 SQ. YDS.
	STA: 15+52 TO STA: 15+77	25 L.F. x 6 L.F. ÷ 9	=	16.7
RAMP N ^o . 8				
	STA: 13+55 TO STA: 15+60	205 L.F. x 6 L.F. ÷ 9	=	136.7
	STA: 15+75 TO STA: 17+25	150 L.F. x 6 L.F. ÷ 9	=	100.0
	TOTAL		=	353 SQ. YDS.

LAKELAND FREEWAY & E. 305th ST. INTERCHANGE