

LAKE COUNTY  
LAK-174-(4.31-5.09)

## PAVEMENT CALCULATIONS

### T-35 ASPHALTIC CONCRETE SURFACE COURSE 1 1/4"

STA. 1+39 TO 3+70 (37.5' Av.) -  $37.5 \times 2310 \div 9 = 962.50$  SQ. YDS.  
 STA. 3+70 TO 6+20 (38.5' Av.) -  $38.5 \times 250 \div 9 = 1069.44$  SQ. YDS.  
 STA. 6+20 TO 8+50 (35.5' Av.) -  $35.5 \times 280 \div 9 = 907.22$  SQ. YDS.  
 STA. 8+50 TO 21+00 (26.0' Av.) -  $26.0 \times 1250 \div 9 = 3611.11$  SQ. YDS.  
 STA. 21+00 TO 49+00 (25.0' Av.) -  $25.0 \times 2800 \div 9 = 7777.77$  SQ. YDS.  
 STA. 49+00 TO 51+90 (25.0' Av.) -  $25.0 \times 290 \div 9 = 805.55$  SQ. YDS.  
 STA. 51+90 TO 56+00 (25.0' Av.) -  $25.0 \times 410 \div 9 = 1138.89$  SQ. YDS.  
 STA. 56+00 TO 59+80 (27.0' Av.) -  $27 \times 380 \div 9 = 1140.00$  SQ. YDS.  
 EXTRA AREA QUANTITIES = 909.00 SQ. YDS.  
 TOTAL = 18,799.48 SQ. YDS.

$(18,799.48 \times 1.25) \div 36 = 652.76$  CU. YDS. USE 653 CU. YDS.

### B-35 ASPHALTIC CONCRETE LEVELING COURSE 1 1/4"

STA. 1+39 TO 3+70 (35.0' Av.)  $35.0 \times 231 \div 9 = 898.33$  SQ. YDS.  
 STA. 3+70 TO 6+20 (36.0' Av.)  $36.0 \times 250 \div 9 = 1000.00$  SQ. YDS.  
 STA. 6+20 TO 8+50 (33.0' Av.)  $33.0 \times 230 \div 9 = 848.33$  SQ. YDS.  
 STA. 8+50 TO 21+00 (23.5' Av.)  $23.5 \times 1250 \div 9 = 3263.89$  SQ. YDS.  
 STA. 21+00 TO 49+00 (25.0' Av.)  $23.75 \times 2800 \div 9 = 7388.89$  SQ. YDS.  
 STA. 49+00 TO 51+90 (25.0' Av.)  $23.75 \times 290 \div 9 = 765.28$  SQ. YDS.  
 STA. 51+90 TO 56+00 (25.0' Av.)  $22.5 \times 410 \div 9 = 1025.00$  SQ. YDS.  
 STA. 56+00 TO 59+80 (27.0' Av.)  $24.5 \times 380 \div 9 = 1034.44$  SQ. YDS.  
 TOTAL = 16,697.16 SQ. YDS.

$(16,697.16 \times 1.25) \div 36 = 579.75$  CU. YDS.  
 $(250 \times 1.13) = 278.25$  CU. YDS.  
 TOTAL = 858.00 CU. YDS.

USE 858 CU. YDS.

### T-30 BITUMINOUS TACK COAT (0.10 GAL. PER. SQ. YD.)

STA. 1+39 TO 60+00 (SAME AS T-35 1 1/4") = 18,799.48 SQ. YDS.

AT 0.10 GALS. PER. SQ. YDS.

$(18,799.48 \times 0.10) = 1879.95$  GALS.

USE 1880 GALS.

### I-17 SIDE APPROACHES MAIL BOX TURNOUTS AND BERM MATERIAL 1 1/4"

STA. 21+00 TO 51+90 (3' WIDTH)  $(3090.0 \times 3) \div 9 = 1030.0$  SQ. YDS.  $(1030.0 \times 1.25) \div 36 = 35.75$  CU. YDS.

USE 36 CU. YDS.

## GENERAL NOTES

**PROFILE:** THE PROFILE OF THE PROPOSED SURFACE COURSE SHALL BE APPROXIMATELY 2 1/2" ABOVE THAT OF THE EXISTING PAVEMENT.

**RESETTING CASTINGS:** THIS ITEM SHALL BE PERFORMED AFTER COMPLETION OF THE LEVELING COURSE AND PRIOR TO PLACING THE SURFACE COURSE. COMPACTION OF THE MATERIAL AROUND CASTINGS INACCESSIBLE TO ROLLERS SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF T-50.21.

**FILLING MAJOR DEPRESSIONS:** MAJOR DEPRESSIONS IN EXISTING PAVEMENTS SHALL BE FILLED AND COMPACTED WITH ASPHALTIC CONCRETE LEVELING MATERIAL IN ADVANCE OF PLACING THE REGULAR LEVELING COURSE. THESE DEPRESSIONS SHALL BE FILLED IN LAYERS NOT TO EXCEED 3" INCHES IN DEPTH WHEN COMPACTED.

**TRAFFIC:** TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE LENGTH OF ONE WAY TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM CONSISTENT WITH THE REQUIREMENTS OF T-35.23. THE ITEM OF MAINTAINING TRAFFIC SHALL INCLUDE FURNISHING LIGHTS, ALL SIGNS, BARRICADES, AND WATCHMEN ACCORDING TO THE REQUIREMENTS OF SECTION G-8.07, "BARRICADES DANGER AND WARNING SIGNS" TO SECURE THE FLOW OF TRAFFIC TWENTY-FOUR HRS. (24) DAILY.

**GUTTERS:** SPECIAL CARE SHALL BE EXERCISED DURING CONSTRUCTION TO OBTAIN MAXIMUM COMPACTION OF BITUMINOUS CONCRETE IN ALL GUTTERS.

**OPENING AT CURB INLETS:** T-35 SURFACE COURSE AT CURB INLETS SHALL BE FEATHERED TO MAINTAIN A 3" MINIMUM OPENING FOR CURB INLET CASTINGS.

**UTILITY ADJUSTMENT:** ANY AND ALL WORK REQUIRED FOR PUBLIC OR PRIVATE UTILITIES WILL BE DONE BY AND AT THE EXPENSE OF THEIR RESPECTIVE OWNERS UNLESS OTHERWISE NOTED IN THESE PLANS.

SHEET NO.	SUMMARY OF QUANTITIES							
	MANHOLE CASTINGS ADJUSTED TO GRADE	WATER VALVE BOXES ADJUSTED TO GRADE	MONUMENT BOXES ADJUSTED TO GRADE	CATCH BASINS ADJUSTED TO GRADE	T-35-1 1/4" AVERAGE SURFACE COURSE	T-35-1 1/4" SURFACE COURSE	T-30 TACK COAT	B-35 1 1/4" LEVELING COURSE
4	14	2	8	18	355	478	833	478
5	1	5	2	7	144		144	
6	7	1	2	3	410		410	
TOTAL	22	8	12	28	909	478	1387	478

GENERAL SUMMARY			
ITEM NO.	TOTAL	UNIT	DESCRIPTION
T-35	653	CU. YDS.	ASPHALTIC CONCRETE SURFACE COURSE TYPE "A" (70-80)
T-30	1880	GALS.	BITUMINOUS TACK COAT SEC. M-5.5, MS-2 or SS-1
B-35	858	CU. YDS.	ASPHALTIC CONCRETE LEVELING COURSE (70-80)
I-17	36	CU. YDS.	SIDE APPROACHES, MAIL BOX TURNOUTS AND BERM MATERIAL
I-8	8	EACH	WATER VALVE BOXES ADJUSTED TO GRADE
I-8	22	EACH	MANHOLE CASTINGS ADJUSTED TO GRADE
I-8	12	EACH	MONUMENT BOXES ADJUSTED TO GRADE
I-8	28	EACH	CATCH BASIN CASTINGS ADJUSTED TO GRADE