

### ROADWAY CALCULATIONS

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
71+82.50	74+20	$(237.5 \times 4 \times 6) \div 27$	21.11	Cu. Yds.
*74+20	74+70.4	$(50 \times 6 \times 3) \div 27$	3.33	" "
74+20	74+70.4	$(50 \times 6 \times 3) \div 27$	1.67	" "
75+05.4	77+00	$(94.6 \times 6 \times 4) \div 27$	17.30	" "
77+00	81+00	$(607 \times 7 \times 1.07) \div 27$	16.84	" "
81+00	83+63.27	$(263.27 \times 6 \times 4) \div 27$	23.40	" "
*83+63.27	85+23.27	$(160.0 \times 7 \times 1.9) \div 27$	7.88	" "
85+23.27	94+02.67	$(879.14 \times 6 \times 4) \div 27$	78.15	" "
94+02.67	97+61.0	$(358.33 \times 6 \times 4) \div 27$	31.85	" "
97+61.13	111+00	$(1338.87 \times 6 \times 4) \div 27$	119.01	" "
*111+00	114+50	$(560.0 \times 7 \times 1.1) \div 27$	15.97	" "
114+50	128+38.46	$(1388.46 \times 6 \times 4) \div 27$	123.42	" "
* NOTE: - SEE SHEET No. 6			TOTAL	459.93

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
69+50	128+38.46		200.0	Cu. Yds.
TOTAL			200.0	" "

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
71+82.50	74+70.4	LEFT SIDE	287.90	Lin. Ft.
74+20	74+70.4	RIGHT SIDE	50.4	" "
75+05.4	77+00	BOTH SIDES	389.2	" "
*77+00	81+00	LEFT SIDE	207.0	" "
*77+00	81+00	RIGHT SIDE	400.0	" "
81+00	83+63.27	BOTH SIDES	526.54	" "
83+63.27	85+23.27	" "	320.0	" "
85+23.27	94+02.67	" "	1758.28	" "
94+02.67	97+61.0	" "	716.66	" "
97+61.13	111+00	" "	2677.74	" "
*111+00	114+50	LEFT SIDE	270.0	" "
*111+00	114+50	RIGHT SIDE	290.0	" "
114+50	128+38.46	BOTH SIDES	2776.92	" "
* NOTE: - SHEET No. 6			TOTAL	10670.64

### PAVEMENT CALCULATIONS

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
69+50	71+82.5	$(232.5 \times 20) \div 9$	516.67	Sq. Yds.
71+82.5	77+00	$(517.5 \times 16) \div 9$	920.00	" "
77+00	81+00	$(400.0 \times 18.5) \div 9$	822.22	" "
81+00	83+63.27	$(263.27 \times 16) \div 9$	468.04	" "
83+63.27	85+23.27	$(160.0 \times 18.3) \div 9$	325.33	" "
85+23.27	94+02.67	$(879.14 \times 16) \div 9$	1562.91	" "
94+02.67	97+61.0	$(358.33 \times 16) \div 9$	637.03	" "
97+61.13	111+00	$(1338.87 \times 16) \div 9$	2380.21	" "
111+00	114+50	$(560 \times 18.4) \div 9$	715.56	" "
114+50	128+38.46	$(1388.46 \times 16) \div 9$	2468.37	" "
EXTRA AREA - LEROY-THOMPSON RD. INTER.			230.00	" "
TOTAL			11,046.34	Sq. Yds.
M.S. 12-AE-3 = 11,046.34 x 0.15 = 1656.95 Gals.			1656.95	Gallons

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
71+82.50	74+20	$(237.5 \times 4) \div 9$	105.55	Sq. Yds.
74+20	74+70.4	$(50 \times 3) \div 9$	16.66	" "
74+20	74+70.4	$(50 \times 3) \div 9$	8.33	" "
75+05.4	77+00	$(94.6 \times 4) \div 9$	86.49	" "
*77+00	81+00	$(607 \times 1.07) \div 9$	72.17	" "
81+00	83+63.27	$(263.27 \times 4) \div 9$	117.00	" "
83+63.27	85+23.27	$(160 \times 1.9) \div 9$	33.78	" "
85+23.27	94+02.67	$(879.14 \times 4) \div 9$	390.73	" "
94+02.67	97+61.0	$(358.33 \times 4) \div 9$	159.25	" "
97+61.13	111+00	$(1338.87 \times 4) \div 9$	595.05	" "
*111+00	114+50	$(560 \times 1.1) \div 9$	68.44	" "
114+50	128+38.46	$(1388.46 \times 4) \div 9$	617.09	" "
* NOTE: - SEE SHEET No. 6			TOTAL	2270.54

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
NOTE: - AREA IS THE SAME AS ITEM I-19 (1/4" INSULATION COURSE)				
SUMMARY OF STATIONING IS ALSO THE SAME AS ITEM I-19 FOR THIS ITEM				
		$(2270.54 \times 9 \times 5) \div 27$	378.42	Cu. Yds.
TOTAL			378.42	Cu. Yds.

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
69+50	128+38.46	GROSS LENGTH	5888.46	
		DEDUCTIONS	11.39	
		NET LENGTH	5877.07	
		$(5877.07 \times 20 \times 0.0625) \div 27$	272.09	Cu. Yds.
INTERSECTION - LEROY-THOMPSON RD. $(230 \times 9 \times 0.0625) \div 27$			4.79	" "
ADD 200 CU. YDS. PER MILE FOR EXTRA LEVELING COURSE			222.60	" "
TOTAL			499.48	Cu. Yds.

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
77+00	81+00	$(400 \times 18.5 \times 87 \div 27) + (15 \times 37 \times 400 \div 27)$	123.53	Cu. Yds.
TRANSITIONS		$(300 \times 16 \times 74 \div 4 \div 27) + (2 \times 24 \times 300 \div 27)$	35.56	" "
83+63.27	85+23.27	$(160 \times 18.3 \times 1.21 \div 27) + (85 \times 71 \times 160 \div 27)$	69.10	" "
TRANSITIONS		$(300 \times 16 \times 107 \div 4 \div 27) + (2 \times 57 \times 300 \div 27)$	53.89	" "
94+02.67	97+61.00	$358.33 \times 16 \times 17 \div 27$	18.05	" "
TRANSITIONS		$300 \times 16 \times 17 \div 4 \div 27$	7.56	" "
111+00	114+50	$(350 \times 18.4 \times 88 \div 27) + (8 \times 38 \times 350 \div 27)$	108.89	" "
TRANSITIONS		$(300 \times 16 \times 77 \div 4 \div 27) + (2 \times 27 \times 300 \div 27)$	37.22	" "
TOTAL			453.60	

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
69+50	128+38.46	GROSS LENGTH	5888.46	
		DEDUCTIONS	11.39	
		NET LENGTH	5877.07	
		$(5877.07 \times 20 \times 0.1042) \div 27$	453.62	Cu. Yds.
INTERSECTION - LEROY-THOMPSON RD. $(230 \times 9 \times 0.1042) \div 27$			7.99	" "
TOTAL			461.61	Cu. Yds.

STATION		CALCULATIONS	QUANTITY	UNIT
FROM	TO			
ITEM I-17		AGGREGATE FOR TRAFFIC BOUND SIDES APPROACHES	100.0	Cu. Yds.
		ESTIMATED	100.0	Cu. Yds.

LINE DATA	
BEGINNING OF PROJECT	69+50.0
END OF PROJECT	128+38.46
GROSS LENGTH	5888.46 Lin. Ft.
DEDUCTIONS	11.39 " "
NET LENGTH	5877.07 " "

GENERAL SUMMARY			
ITEM No.	ROADWAY	QUANTITY	UNIT
I-17	AGGREGATE FOR TRAFFIC BOUND SIDE APPROACHES	100	Cu. Yds.
E-1	ROADWAY EXCAVATION (UNCLASSIFIED)	460	Cu. Yds.
E-4	BORROW (ESTIMATED)	200	" "
E-10	SEALING (ONLY) EDGE OF EXIST. PAVEMENT	10,671	Lin. Ft.
I-9	STONE UNDERDRAIN (FRENCH DRAIN) No. 2	200	Lin. Ft.
PAVEMENT			
I-19	1/4" INSULATION COURSE	2271	Sq. Yds.
B-35	ASPHALTIC CONC. BASE COURSE	832	Cu. Yds.
B-35	ASPHALTIC CONCRETE LEVELING COURSE	300	" "
T-30	BITUMINOUS PRIME COAT (SEC. M.S. 12-AE-3) INCL. SAND	1657	Gals.
T-35	ASPHALTIC CONCRETE SURFACE COURSE, TYPE 'A'	462	Cu. Yds.
MAINTAINING TRAFFIC INCLUDING LIGHTS, SIGNS, BARRICADES, AND WATCHMEN, 24 HR. SERVICE (AS PER PLAN)			
		LUMP	SUM