

PAVEMENT CALCULATIONS

LAK-615-0.06

Line Data

Begin Project Station 0+10
 End Project Station 8+00
 Length of Project 790 Lin. ft.
 Minus Short Station
 Sta. 5+99.60 = Sta. 6+49.50 = 49.90 Lin. ft.
 Total length of Project 740.10 Lin. ft. or .140 Miles

BITUMINOUS TACK COAT (0.10 Gal. per sq. yd.) ITEM T-30

Appr. Slabs = $2 \times 15 \times 24 \div 9 = 80$ Sq. Yds.
 T-30 = $80 \times 0.10 = 8$ Gallons

Total 80 Sq. Yds.
 8 Gallons
 Use 14 Gallons

ASPHALTIC CONCRETE SURFACE COURSE ITEM T-35

Sta. 0+49.37 to Sta. 1+78.38 = $129.01 \times 22 \div 9 = 315.36$ Sq. Yds.
 Sta. 1+78.38 to Sta. 3+39.81 = $161.43 \times 24 \div 9 = 430.48$ Sq. Yds.
 Appr. Slab Sta. 3+39.81 to Sta. 3+54.81 = $15 \times 24 \div 9 = 40.00$ Sq. Yds.
 Bridge Sta. 3+54.81 to Sta. 5+00.19 = $14.38 \times 24 \div 9 = 38.32$ Sq. Yds.
 Appr. Slab Sta. 5+00.19 to Sta. 5+15.19 = $15 \times 24 \div 9 = 40.00$ Sq. Yds.
 Sta. 5+15.19 to Sta. 5+99.60 & Sta. 6+49.50 to Sta. 6+78.51 = $113.42 \times 22 \div 9 = 277.25$ Sq. Yds.
 Sta. 6+78.51 to Sta. 8+00 = $121.49 \times 18 \div 2186.82 \div 9 = 242.98$ Sq. Yds.
 Extra Area, Begin Project = 170.00 Sq. Yds.
 Total 1/2" Thick = 1516.07 Sq. Yds.
 1516.07 x 1.5 = 36 = 63.17 Cu. Yds.
 Add for Drives & Mailbox Turnouts (Sheet A) = 32.3 Cu. Yds.
 Total T-35 = 95.47 Cu. Yds.

Use 96 Cu. yds

WATER ITEM E-11

Embankment 463 x 5 = 2315 M. Gals.
 B-119 428 x 5 = 2140 M. Gals.
 TOTAL 4455 M. Gals.
 USE 5 M. Gals.

COMPACTED SUBGRADE ITEM E-1

Sta. 0+49.37 to Sta. 1+78.38 = $129.01 \times 22 \div 9 = 315.36$ Sq. Yds.
 Sta. 1+78.38 to Sta. 3+39.81 = $161.43 \times 24 \div 9 = 430.48$ Sq. Yds.
 Sta. 5+15.19 to Sta. 6+78.51 = $113.42 \times 22 \div 9 = 277.25$ Sq. Yds.
 Sta. 6+78.51 to Sta. 8+00 = $121.49 \times 18 \div 9 = 242.98$ Sq. Yds.
 Extra Area at Begin Project = 170.00 Sq. Yds.
 Approach Slabs = 80.00 Sq. Yds.
 Total Compacted Subgrade = 1516.07 Sq. Yds.

Reinforced Concrete Approach Slab Item I-7
 80 Sq. Yd

ASPHALTIC CONCRETE LEVELING COURSE ITEM B-35

Same as Asphaltic Concrete Surface Course 1/2" Thick = 64 Cu. Yds.

CRUSHED AGGREGATE BASE COURSE - ITEM B-119

Sta. 0+49.37 to Sta. 1+78.38 = $129.01 \times 24 \div 9 = 344.03$ Sq. Yds.
 Sta. 1+78.38 to Sta. 3+39.81 = $161.43 \times 26 \div 4 + 97.18 \div 9 = 466.35$ Sq. Yds.
 Sta. 5+15.19 to Sta. 5+99.60 & Sta. 6+49.50 to Sta. 6+78.51 = $113.42 \times 24 \div 9 = 302.45$ Sq. Yds.
 Sta. 6+78.51 to Sta. 8+00 = $121.49 \times 20 \div 2429.80 \div 9 = 269.98$ Sq. Yds.
 Extra Area, Begin Project = 182.00 Sq. Yds.
 Total - 8" Thick = 1564.81 Sq. Yds.
 1564.81 x 8 = 36 = 347.73 Cu. Yds.
 Add for Drives & Mailbox Turnouts = 80.1 Cu. Yds.
 Total B-119 = 427.83 Cu. Yds.

BITUMINOUS PRIME COAT (0.35 Gal. per sq. yd.) Item T-30

Same as Crushed Aggregate Base Course - 8" Thick = 1564.81 Sq. Yds.
 1564.81 Sq. Yds. x 0.35 gallons = 547.68 Gallons
 Use 548 Gallons

GENERAL SUMMARY

Item No	Quantities	Unit	Roadway & Drainage
E-1	1413	Cu. Yds.	Roadway Excavation
E-1	1516	Sq. Yds.	Compacted Subgrade
E-8	1228	Sq. Yds.	Removal and Disposal of Existing Pavement
I-2	246	Lin. ft.	12" Pipe for Storm Sewers
I-2	82	Lin. ft.	12" Pipe for Storm Sewers under pavement
I-2	185	Lin. ft.	15" Pipe for Storm Sewers
I-8	7	Each	Standard No. 2 A Catchbasins
I-8	4	Each	Monument Boxes, as per plan
I-9	150	Lin. ft.	Stone Underdrains No. 2
I-15	165	Lin. ft.	Guard Rail Removed and Disposed of
I-15	25	Lin. ft.	Guard Rail - Steel Beam Type (Deep)
S-1	0.7	Cu. Yds.	Concrete for Structures, Class "E", as per plan.
L-9	2701	Sq. Yds.	Seeding and Protecting Type "A" as per plan.
L-9	0.36	Tons	Commercial Fertilizer (10-6-4)
E-11	5	M. Gallons	Water
T-10	100	Cu. Yds.	Traffic Compacted Surface Course for Maintaining Local Traffic
M-10	2	Tons	Calcium Chloride or Calcium Magnesium Chloride Furnished and Applied for Maintaining Local Traffic.
Pavement			
T-35	96	Cu. Yds.	Asphaltic Concrete Surface Course Type "A" (70-80)
B-35	64	Cu. Yds.	Asphaltic Concrete Leveling Course (70-80)
B-119	428	Cu. Yds.	Crushed Aggregate Base, as per plan.
T-30	8	Gallons	Bituminous Prime Coat, Sec. M-5.7, RT-2 or RT-3 or Sec. M-5.3, MC-O or MC-1.
T-30	8	Gallons	Bituminous Tack Coat, as per plan.
I-7	80	Sq. Yds.	Reinforced Concrete Approach Slabs.
STRUCTURE OVER 20 FOOT SPAN For Quantities Bridge No. LA-615-02 See Sheet No. 11			