ALL-75 Bridge Quantities

ALL-75-0100 R

Item 254 Variable Depth Pavement Planing, 2” Avg.

180’ length x 44’ width = 7920 sf / 9 = 880 sy x 2 approaches = 1760 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

880 sy x 2” = 1760 / 36 = 48.9 cy x 2 approaches = 98 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 336’ length x 44’ width = 14784 sf / 9 = 1642.7 sy x 1.5” / 36 = 68.5 cy

Lift 2 - 546’ length x 44’ width = 24024 sf / 9 = 2669.3 sy x 1.5” / 36 = 111.2 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 1760 sy x 0.085 = 149.6 gal.

For Item 856 Lift 1 – 1642.7 x 0.085 = 139.6 gal.

For Item 856 Lift 2 – 2669.3 x 0.085 = 226.9 gal.

ALL-75-0100 L

Item 254 Variable Depth Pavement Planing, 2” Avg.

180’ length x 44’ width = 7920 sf / 9 = 880 sy x 2 approaches = 1760 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

880 sy x 2” = 1760 / 36 = 48.9 cy x 2 approaches = 98 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 336’ length x 44’ width = 14784 sf / 9 = 1642.7 sy x 1.5” / 36 = 68.5 cy

Lift 2 - 546’ length x 44’ width = 24024 sf / 9 = 2669.3 sy x 1.5” / 36 = 111.2 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 1760 sy x 0.085 = 149.6 gal.

For Item 856 Lift 1 – 1642.7 x 0.085 = 139.6 gal.

For Item 856 Lift 2 – 2669.3 x 0.085 = 226.9 gal.

Totals R & L structures: Item 254 1760 sy + 1760 sy = 3520 sy

 Item 441 98 cy + 98 cy = 196 cy

 Item 856 68.5 cy + 111.2 cy + 68.5 cy + 111.2 cy = 359.4 cy

 Item 407 149.6 + 139.6 + 226.9 + 149.6 + 139.6 + 226.9 = 1032.2 gal.

ALL-75 Bridge Quantities

ALL-75-0423 R

Item 254 Variable Depth Pavement Planing, 2” Avg.

205’ length x 44’ width = 9020 sf / 9 = 1002 sy x 2 approaches = 2004 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

1002 sy x 2” = 2004 / 36 = 55.7 cy x 2 approaches = 111 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 419’ length x 44’ width = 18436 sf / 9 = 2048.4 sy x 1.5” / 36 = 85.4 cy

Lift 2 - 629’ length x 44’ width = 27676 sf / 9 = 3075.1 sy x 1.5” / 36 = 128.1 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 2004 sy x 0.085 = 170.3 gal.

For Item 856 Lift 1 – 2048.4 x 0.085 = 174.1 gal.

For Item 856 Lift 2 – 3075.1 x 0.085 = 261.4 gal.

ALL-75-0423 L

Item 254 Variable Depth Pavement Planing, 2” Avg.

205’ length x 44’ width = 9020 sf / 9 = 1002 sy x 2 approaches = 2004 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

1002 sy x 2” = 2004 / 36 = 55.7 cy x 2 approaches = 111 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 419’ length x 44’ width = 18436 sf / 9 = 2048.4 sy x 1.5” / 36 = 85.4 cy

Lift 2 -629’ length x 44’ width = 27676 sf / 9 = 3075.1 sy x 1.5” / 36 = 128.1 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 2004 sy x 0.085 = 170.3 gal.

For Item 856 Lift 1 – 2048.4 x 0.085 = 174.1 gal.

For Item 856 Lift 2 – 3075.1 x 0.085 = 261.4 gal.

Totals R & L structures: Item 254 2004 sy + 2004 sy = 4008 sy

 Item 441 111 cy + 111 cy = 222 cy

 Item 856 85.4 cy + 128.1 cy + 85.4 cy + 128.1 cy = 427 cy

 Item 407 170.3 + 174.1 + 261.4 + 170.3 + 174.1 + 261.4 = 1211.6 gal.

ALL-75 Bridge Quantities

ALL-75-0448 R

Item 254 Variable Depth Pavement Planing, 2” Avg.

205’ length x 65.5’ width = 13427.5 sf / 9 = 1492 sy x 2 approaches = 2984 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

1492 sy x 2” = 2984 / 36 = 82.9 cy x 2 approaches = 166 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 462’ length x 65.5’ width = 30261 sf / 9 = 3362.3 sy x 1.5” / 36 = 140 cy

Lift 2 - 672’ length x 65.5’ width = 44016 sf / 9 = 4890.7 sy x 1.5” / 36 = 203.8 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 2984 sy x 0.085 = 253.6 gal.

For Item 856 Lift 1 – 3362.3 x 0.085 = 285.8 gal.

For Item 856 Lift 2 – 4890.7 x 0.085 = 415.7 gal.

ALL-75-0448 L

Item 254 Variable Depth Pavement Planing, 2” Avg.

205’ length x 53’ width = 10865 sf / 9 = 1207.2 sy x 2 approaches = 2414 sy

Item 441 Variable Depth Asphalt Concrete, 2” Avg.

1207 sy x 2” = 2414 / 36 = 67 cy x 2 approaches = 134 cy

Item 856 Bridge Deck Waterproofing Asphalt Concrete (2 lifts at 1.5” thickness)

Lift 1 - 462’ length x 53’ width = 24486 sf / 9 = 2720.7 sy x 1.5” / 36 = 113.4 cy

Lift 2 - 672’ length x 53’ width = 35616 sf / 9 = 3957.3 sy x 1.5” / 36 = 164.9 cy

Item 407 Tack Coat

For Variable Depth Asphalt Concrete - 2414 sy x 0.085 = 205.2 gal.

For Item 856 Lift 1 – 2720.7 x 0.085 = 231.3 gal.

For Item 856 Lift 2 – 3957.3 x 0.085 = 336.4 gal.

Totals R & L structures: Item 254 2984 sy + 2414 sy = 5398 sy

 Item 441 166 cy + 134 cy = 300 cy

 Item 856 140 cy + 203.8 cy + 140 cy + 203.8 cy = 688 cy

 Item 407 253.6 + 285.8 + 415.7 + 205.2 + 231.3 + 336.4 = 1728 gal.