

UNIVERSITY OF SOUTH ALABAMA



GROUNDS DEPARTMENT

TELEPHONE: (334) 460-6356
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COMPARISONS OF MAINTENANCE

Grasspave²/Gravelpave² Vs Conventional Asphalt Parking Lots

ASPHALT - \$0.497/square yard/year

Over 20 year assumed life span, the 13,944 square yards of the Mitchell Center parking lot would require a maintenance total of \$138,603.00.

GRASSPAVE²/GRAVELPAVE² - \$0.296/square yard/year

Over 20 years assumed life span, the 7,667 square yards of Grasspave² and 6,277 square yards of Gravelpave², the maintenance total would be \$82,709.00.

Thus, the projected maintenance costs of the Grasspave² and Gravelpave² lots are 40.4% less than asphalt.

Notes

1. The figures for asphalt maintenance are based on historical costs from University of South Alabama Grounds Department records for FY's 1993 - 94, '94 - 95, '95 - 96, '96 - 97, and '97 - 98. The costs include seal coating, paint striping, patching and crack filling, and resurfacing. The \$.214/yard² represents the 5 year mean. We have assumed a 20 year life span of the surface, with a resealing scheduled 4 times during this life span (years 1, 6, 11, and 16).

| Annual Mean | <u>Resurfacing</u> | <u>Sealing</u> | <u>Total</u> |
|-------------|--------------------------|--------------------------------|-------------------------------|
| | \$0.126/yd ² | + \$0.088/yd ² | \$0.214/yd ² |
| | Painting & Striping | | \$0.148/yd ² |
| | Pothole Repair | | \$0.131/yd ² |
| | Crack Filling | | <u>\$0.004/yd²</u> |
| | Annual mean total | | \$0.497yd ² |
| | | x <u>20 years</u> | = \$9.94/yd ² |
| | | x <u>13,944 yd²</u> | = \$138,603.36 |

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2. Since no historical data exists for this type of surface at USA, these figures are estimates. We have estimated that the 1.6 acres of Grasspave² will take 2 hours to mow. (This is based upon areas similar in shape and size). We have assumed 40 mowings per year – once per week for 30 weeks during Bermuda grass growing season, and 10 times during remaining 22 weeks of the annual ryegrass (over-seeded) growing season. We have also assumed 4 hours/month of box blading and leveling in the Gravelpave² areas.

| | | | |
|--|---|---|-------------------|
| <u>Mowing</u> | | | \$ 980.00 |
| | Labor 80 hrs @ \$9.00/hr = \$720 | | |
| | Mower costs 80 hrs @ \$3.25/hr = \$260.00 | | |
| <u>Fertilizer & Lime</u> | \$64.00 per acre x 1.6 acres | | 102.40 |
| <u>Irrigation Maintenance</u> | \$20.00 per acre x 1.6 acres | = | 32.00 |
| <u>Water Cost</u> | | | 1,567.50 |
| <u>Painting/Striping</u> | | | 13.55 |
| <u>Box Blading & Leveling of Gravelpave²</u> | 48 hrs @ \$30.00/hr | = | \$ 1,440.00 |
| | | = | \$ 4,135.45 |
| | | | <u>x 20 years</u> |
| | | = | \$82,709.00 |

Sincerely,

Andy E. Lindsey
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AEL/mls - 02/18/99

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