

**Cost Summary Comparison  
Maintenance of Natural Grass versus Artificial Turf**

<u>Natural Grass - 8 Year Period</u>		<u>Field Turf - 8 Year Period</u>	
Installation	\$0	Installation	\$1,020,000
Maintenance	\$401,736	Maintenance	\$13,936
Replacement*	\$94,500	Replacement*	\$0
Equipment** (7-8yrs.)	\$48,000	Equipment**	\$1,160
<b>Total</b>	<b>\$544,236</b>	<b>Total</b>	<b>\$1,035,096</b>
<b># of uses of field</b>	<b>360 (45 days per year)</b>	<b># of uses of field</b>	<b>2,920 (365 days per year)</b>
<b>Cost per use</b>	<b>\$1,512</b>	<b>Cost per use</b>	<b>\$354</b>

The cost of installation listed above for artificial turf includes infrastructure, drainage, engineering and project management fees, soil testing, and permits. The warranty of most artificial turf fields is eight years although manufacturers say they have a 10 year life expectancy.

\*In the case of natural grass fields, replacement refers to occasional removal and replacement of sections of the field with new sod due to disease, overuse, etc. In the case of turf fields, there is no need for replacement until the useful life has been exceeded, which is estimated to be 10 years. Replacement of a turf field at the end of the useful life is significantly less expensive than the initial installation because the drain system under the field and the other infrastructure already exists. Replacement of the turf (to include engineering and project management fees, plus inflation) is approximately \$300,000.

\*\*The equipment used to maintain natural grass fields already exists in the District but typically needs to be replaced every seven years. The sweeper and rake for the turf field will need to be replaced after 10 years.

<u>Natural Grass - 16 Year Period</u>		<u>Field Turf - 16 Year Period</u>	
Installation	\$0	Installation	\$0
Maintenance	\$803,472	Maintenance	\$27,872
Replacement* (2)	\$227,300	Replacement*	\$300,000
Equipment** (7-8 yrs.)	\$103,680	Equipment**	\$2,320
<b>Total</b>	<b>\$1,134,452</b>	<b>Total</b>	<b>\$330,192</b>
<b># of uses of field</b>	<b>720 (45 days per year)</b>	<b># of uses of field</b>	<b>5,840 (365 days per year)</b>
<b>Cost per use</b>	<b>\$1,576</b>	<b>Cost per use</b>	<b>\$233</b>

Amount returned to the operating budget for other programs is \$49,920.