

**BEAGLE ROAD PRD (TRACT 2008)**  
**PERMANENT ROAD DIVISION**  
**REVENUE NEEDS**

1. Beagle Road and Rabbit Lane will need to be resurfaced in approximately 10 years.

- a. New surface in 10 years ( 0.17 miles)

Installation cost (\$/Ton)*	Paved surface (ft <sup>2</sup> )	Overlay (in)	Density of AC (lb/ft <sup>3</sup> )	Tons
195	27,276	0.75	145	124

Therefore- \$/ton x ft<sup>2</sup> x Overlay (in) x density (#/ft<sup>3</sup>)/(12 in/ft x 2,000 lb/ton)= \$ 24,180

\* Unit cost based on 2013 Annual PRD contract figures

- b. Annual cost for amortization of future AC surfacing= \$ 2,418  
 ( \$ 24,180 divided by 10 years)

- c. Cost per parcel- 24 parcels participating- \$2418/24=

	\$ 100.75
USE	\$ 102.00

2. Bike Path will need approximately one 20' section replaced every 10 years

- a. Replace 20 feet of 8 foot wide bike trail

Installation cost (\$/sf)	Width (ft)	Length (ft)
\$ 15	8	20

Therefore- \$/sf x width(ft) x length(ft)= \$ 2,400

- b. Annual cost for amortization of future road= \$ 240  
 ( \$ 2,400 divided by 10 years)

- c. Cost per parcel- 24 parcels participating- \$240/24=

\$ 10.00
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3. Replace Storm Drains in 50 years

Installation costs (\$/lf)	Length (ft)
\$ 97	780

Therefore - \$/sf x length (ft) = \$ 75,660

- b. Annual cost for amortization of future stormdrain = \$ 1,513  
 ( \$ 75,660 divided by 50 years)

- c. Cost per parcel - 24 parcels participating

\$ 64
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4. Annual maintenance fees from now until the roads are resurfaced are as follows:

a. Patching	\$ 300
b. Maintenance of shoulders/ditches/culverts	\$ -
c. Snow removal, use \$2,382/mile/yr	Therefore \$2,382x___miles = \$ -
d. Administration, Overhead & Liability Insurance	\$ 400
e. Total annual cost for maintenance	\$ 700

- f. Cost per parcel- 24 parcels participating- \$700/24=

\$ 29.17
USE \$ 30.00

**PROPOSED FEES**

Total annual cost: (1c) + (2c) + (3f)

\$ 206
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Annual revenue: 24x205=

\$ 4,944.00
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Annually, the parcel charge will change, after the first year, based on the annual increase in the Engineering News Record Construction Index