## STILLWATER RANCHES UNIT 2 PHASE 2 PRD (TR 18-0001) PERMANENT ROAD DIVISION REVENUE NEEDS

1 Stillwater Ranch PRD will need to be sealed in 10 years and resurfaced in approximately 20 years
a. New AC surface in 20 years 0.38 mi ( 41,000 sf including turnouts and cul-de-sacs)

| Installation Cost/ton | Paved Surface (sf) | Overlay (in) | Density of $\mathrm{AC}\left(\mathrm{lb} / \mathrm{ft}^{3}\right)$ | Quantity (Ton) |
| :---: | :---: | :---: | :---: | :---: |
| \$250 | 50,777 | 1.0 | 150 | 317 |


| Subtotal - \$/to | $x$ Sqft x Depth (in) x Density (\#/ft3)/( |  | \$ | 79,339 |
| :---: | :---: | :---: | :---: | :---: |
| Additional cost | for future paving @ 3\% for 20 years = |  | \$ | 63,956 |
| \$ 143,295 | Total future cost (Divided by 20 years) | Use | \$ | 7,165 |

b. Slurry Seal in 10 years 0.38 mi ( 55,350 sf including, cul-de-sac, and bike paths)


| Subtotal - \$/to | $x \mathrm{ft} 2 \mathrm{x}$ density $(\# / \mathrm{yd} 2) /(9 \mathrm{ft} 2 / \mathrm{yd} 2 \times 2,0$ |  | \$ | 22,484 |
| :---: | :---: | :---: | :---: | :---: |
| Additional cost | for future slurry seal @ 3\% for 10 years |  | \$ | 7,733 |
| \$ 30,217 | Total future cost (Divided by 10 years) | Use | \$ | 3,022 |

2 Bridge deck seal and MBGR repair in 30 years. See Bridge Maintenance Estimate Sheet 2 of 2.
Subtotal for deck seal and approach railing repair. \$ 49,037
Additional cost for future bridge maintenance @ $3 \%$ for 30 years =

|  | $\$$ 69,989 <br> Use  <br>  $\$$ <br> 3,968  |
| ---: | ---: |

3 EFER maintenance. 15,500 Sqft of grading and base rock for 10 years. See EFER Maintenance Sheet

Additional cost for EFER maintenance @ 3\% for 10 years =
\$ 19,000
$\$ \quad 25,534$ Total future cost (Divided by 10 years)

Use | $\$$ | 6,534 |
| ---: | ---: |
| $\$$ | 2,553 |

4 Annual maintenance fees from now until the roads are resurfaced are as follows: 10 year slurry
a. Patching

$\$ 2,382 \times 0.00$ miles $=$| $\$$ | 2,000 |
| :---: | :---: |
| $\$$ | 3,000 |
| $\mathrm{n} / \mathrm{a}$ |  |
| $\$$ | 5,000 |

Additional cost for Annual maintenance @ 3\% for 10 years =
\$ 1,720

5 Administration and Liability Insurance costs for 10 years.
a. A-87
b. Administration
c. Tax Collection Administration
d. Liability Insurance
e. Total cost for Admin and Insurance for 10 years.

| $\$ \quad 10,200$ | Total future cost (Divided by 10 years) |
| :--- | :--- |

\$ 3,000
\$ 3,000
\$ 2,000
\$ 2,200
$\$ 10,200$
\$ 1,020

## PROPOSED FEES

Total number of Parcels:
Total annual cost: $(1 \mathrm{a})+(1 \mathrm{~b})+(2)+(3)+(4)+(5)$
Total annual cost/\# parcel: \$ 18,399 / 18

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| $\$$ | 18,399 |  |
| ---: | ---: | ---: |
|  |  |  |
|  | 1,022 |  |
|  | $\$$ | $\mathbf{1 , 0 2 2}$ |

Parcel harge amortization interest rate from Engineering News and Review using 10-year average is $3.6 \%$. 5 -year average is $3.9 \%$. Use $3.0 \%$ for this estimate.

