## 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	Paved	Overlay (in)	Density of	Quantity
Cost/ton	Surface (sf)		AC (lb/ft <sup>3</sup> )	(Ton)
\$250	50,777	1.0	150	317

Subtotal - \$/ton x Sqft x Depth (in) x Density (#/ft3)/(12 in/ft x 2,000 lb/ton) =			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)

Installation Cost/ton	Paved Surface (sf)	Density of Slurry (lb/SY)	Qua (To	ntity on)
\$400	63,237	16	5	6

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Subtotal - \$/ton x ft2 x density (#/yd2)/(9 ft2/yd2 x 2,000 lb/ton) =	\$ 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
	<u>Additional cost</u> for future bridge maintenance @ 3% for 30 years =		\$	69,989
	<b>\$</b> 119,026 Total future cost (Divided by 30 years)	Use	\$	3,968
	EFER maintenance. 15,500 Sqft of grading and base rock for 10 years. See EFER Maintenance Sheet		\$	19,000
	Additional cost for EEER maintenance @ 3% for 10 years =		\$	6 534
	\$ 25,534 Total future cost (Divided by 10 years)	Use	\$	2,553
	Annual maintenance fees from now until the roads are resurfaced are as follows:	10 year :	slurry	,
_	Databing		¢	2 000

a.	Patching		\$	2,000
b.	Grading of shoulders & ditches, weed control		\$	3,000
c.	Snow removal, use \$2,382/mile/yr \$2,5	382 x <mark>0.00</mark> miles =	n/a	
d.	Total annual cost for maintenance	_	\$	5,000
	Additional cost for Annual maintenance @ 3% for 10 years =		\$	1,720

\$ 6,720 Total future cost (Divided by 10 years)	Use	\$	672		
5 Administration and Liability Insurance costs for 10 years.					
a. A-87		\$	3,000		
b. Administration		\$	3,000		
c. Tax Collection Administration		\$	2,000		
d. Liability Insurance		\$	2,200		
e. Total cost for Admin and Insurance for 10 years.	-	\$	10,200		
\$ 10,200 Total future cost (Divided by 10 years)		\$	1,020		
PROPOSED FEES					
Total number of Parcels: T	R 18-0001		18		
Total annual cost: (1a) + (1b) + (2) + (3) + (4) + (5)		\$	18,399		
Total annual cost/# narcel: \$ 18,399 / 18		\$	1 022		
	Use	\$	1,022		

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.