

***Subdivision Paving Local Improvement  
District  
Advisory Committee***

***Tuesday, April 22, 2014 – 5:00 PM***



# 2014 Chip Seal Program

- Approximately 20 miles of Subdivision Roads to be Chip Sealed
- Plans will be ready by end of week to go out to bid
- List of Subdivisions as presented to SPLIDAC on April 2, 2014 has been approved by Board of County Commissioners on April 15, 2014 at a public hearing

# Double Surface Treated (DST) Roads in Boulder County Subdivisions

- DST is a method of creating a hard surface on an existing gravel road using a double layer of chip and seal treatment
- Not intended to create structural section on the road
- Intended to provide a more durable wearing surface
- Can be used as a method for dust control
- Chip Seal extends the wear life of DST Road 4-5 years (similar to asphalt)

# Rehabilitation Assumptions

## “Better” Fair (PQI (~6.0 +))” Condition

- A Chip Seal Consisting of ¼” Stone with Top Coat of Emulsion (Oil)

## “Fair” Condition (PQI 5.0 – 6.0)

- An Overlay Consisting of 2” Asphalt Percentage of Patching to be Determined From Field Observation
- Include Milling of Edges Prior to Overlay

## “Poor” Condition ( PQI < 5.0)

- All Asphalt to be Removed Through Milling or Being Hauled Away (Milling Assumed so Material can be Re-Used)
- Re-Paving of Road with 4” of Asphalt
- Road Bed will be Fine Graded Prior to Asphalt Replacement

# Total Assumed Cost of Rehabilitation Techniques (With 20% Contingency – 24' Wide Road Surface)

- Re-Construction of “Poor” Roads - \$350,000/MI.
- Overlay of “Fair” Roads - \$150,000/MI.
- Chipseal of “Good” Roads - \$40,000/MI.

# Options For 2014 - \$4M Budget

Option 1 – Re-Construct Worst Roads with Available Funds

Option 2 – Overlay Worst of the “Fair” Roads (PQI > 5.0) to Prevent Slippage into “Poor Category”

Option 3 – Combination of Options 1 and 2

# Option 1 – Reconstruct Worst Roads

Subdivision	PQI	Length of Roads	Cumulative Cost
BRUNTWOOD ESTATES	2.64	0.13	\$45,009
KNOLLWOOD	2.85	0.57	\$243,358
APOLLO ESTATES	3.00	0.13	\$287,816
COTTONWOOD PARK WEST	3.13	0.93	\$613,070
EVERGREEN	3.20	0.36	\$739,140
GALE H SIMMONS	3.33	0.34	\$857,845
HOMESTEAD	3.35	1.11	\$1,246,267
SHANNON ESTATES	3.39	2.49	\$2,117,947
NORTH RIM	3.49	3.17	\$3,226,297
SPANISH HILLS	3.50	1.39	\$3,712,997
MCSORLEYS	3.59	0.31	\$3,823,215

# Option 2 – Overlay worst of “Fair”

Subdivision	PQI	Length of Roads	Cumulative Cost
LAKE VALLEY ESTATES	5.02	2.28	\$342,667
STONEHENGE	5.04	1.12	\$510,994
PARK LAKE	5.05	1.86	\$790,463
HEATHERWOOD	5.06	8.56	\$2,075,099
BROWNSVILLE	5.07	4.15	\$2,697,600
WILLOWS	5.09	1.12	\$2,865,318
LARK MEADOWS	5.18	0.95	\$3,007,750
SOUTH VALE	5.30	0.19	\$3,036,738
PONY ESTATES	5.36	1.45	\$3,254,310
SPRING VALLEY ESTATES	5.37	0.67	\$3,354,131
TWIN LAKES	5.49	1.69	\$3,608,022



# Option 3 – Combination of Reconstruct and Overlay

Subdivision	PQI	Length of Roads	Cumulative Cost
LAKE VALLEY ESTATES	5.02	2.28	\$342,667
STONEHENGE	5.04	1.12	\$510,994
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SPRING VALLEY ESTATES	5.37	0.67	\$3,354,131
TWIN LAKES	5.49	1.69	\$3,608,022
BRUNTWOOD ESTATES	2.64	0.13	\$3,653,031
KNOLLWOOD	2.85	0.57	\$3,896,389
APOLLO ESTATES	3.00	0.13	\$4,184,205