Ivins City Staff Report
City Council Meeting 3/16/2017

Agenda Item: Approval of expenditure for streets pavement maintenance

Submitted by: Thomas J. Jorgensen, P.E., Assistant Public Works Director

Recommended City Council Action:
Approve expenditure of $249,638.35 for streets pavement maintenance plus an additional $12,000 for contingency for a total of $261,638.35

BACKGROUND:
Staff has identified 1,882,679 square feet (sqft) of streets that are need of pavement maintenance. This year we will be using two different types of materials to for our pavement maintenance program, slurry seal (Type II) and a High Density Mineral Bond (HDM or "HA5". The slurry seal is considered to be an effective manner of protecting asphalt streets from deterioration from sun and water while providing a renewed skid resistant wearing surface. The HDMB is also considered to be an effective manner of protection compared to slurry seal, but also has an added benefit of improving the impermeability of the asphalt and increasing life. Slurry seals are projected to add five to seven years of extended life to a pavement surface, while the HDMB is projected to add seven to ten years of extended life to a pavement surface. Typically, the HDMB is applied to streets that are in better condition (less cracking and deterioration, new pavement, etc.) while the slurry seal is better suited on streets in slightly worse condition. The attached map shows the areas to be covered by each product (zones A & B for slurry seal and zones C & D for HDMB). Staff has done a survey of these streets and has determined which streets are eligible for the HDMB (approximately 892,788 sqft) and which would be better suited for the slurry seal (approximately 989,891 sqft).

It should be noted that staff is still considering whether or not Zone B, essentially Old Highway 91 from 200 East to the Shivwits boarder, should receive an application of slurry seal this year. The purpose of the slurry seal is to extend the life of the roadway but, Ivins City has received a $2.0 million federal grant, available in 2021, from the Dixie MPO to resurface and widen Old Hwy 91 from 200 East to the Shivwits border. Therefore, if the slurry seal is able to provide a substantial improvement to the overall roughness of the roadway, staff would consider slurry sealing this portion of roadway. Staff is planning on having the contractor apply a slurry seal test strip from 200 East to Main Street to see if the slurry seal provides an improvement in ride roughness. Once the roughness has been evaluated by staff, a recommendation will be made by staff regarding the cost/benefit of the slurry seal. The additional cost of adding Old Hwy 91 to the project is $51,914.30, or the difference between Bid Schedules A and B, shown below.

FINDINGS AND ANALYSIS:
Bids were received from three companies for the slurry seal. A summary of these bids is provided below:

Bid Schedule A – Zones A and B (includes Old Hwy 91)

Bid	Company	Total Bid	Notes
1	Intermountain Slurry Seal (SLC, UT)	$114,827.36	Apparent Low Bidder
2	Morgan Pavement Maintenance (Clearfield, UT)	$126,706.05	

3	American Pavement Preservation (Las Vegas, NV)	$135,615.07	

Bid Schedule B – Zone A (only includes the test strip of Old Hwy 91)

Bid	Company	Total Bid	Notes
1	Intermountain Slurry Seal (SLC, UT)	$62,913.06	Apparent Low Bidder
2	Morgan Pavement Maintenance (Clearfield, UT)	$74,844.85	
3	American Pavement Preservation (Las Vegas, NV)	$86,776.64	

The apparent low bidder, for both bid schedules, with a conforming bid was from Intermountain Slurry Seal. Staff therefore recommends awarding of the project to Intermountain Slurry Seal. Staff requests that the Council approve this expenditure.

An estimate was received from Holbrook Asphalt for the HDMB "HA5" and the estimate was for $134,810.99. This estimate was for applying HDMB to Zones C and D. There are other slurry coat products in the market but none of those products have demonstrated results that are comparable to HA5. For this reason, staff has determined the product to be purchased as a sole source product. Staff therefore recommends awarding of the project to Holbrook Asphalt. Staff requests that the Council approve this sole source expenditure.

It should also be noted that several of these roadways that are receiving a slurry seal or HDMB will need to be restriped. An estimate for restriping has been requested and has not yet been received. Therefore, the total expenditure for roadway maintenance will include another expense for roadway striping. The estimate for that expense and staff recommendation will be provided at the next council meeting.

SUPPORT MATERIALS:
Project Map

FINANCIAL IMPACT:
The following general ledger codes will be used
Streets Fund: 10-60-515: $261,638.35 including slurry seal Old Hwy 91 and also includes a contingency of $12,000.

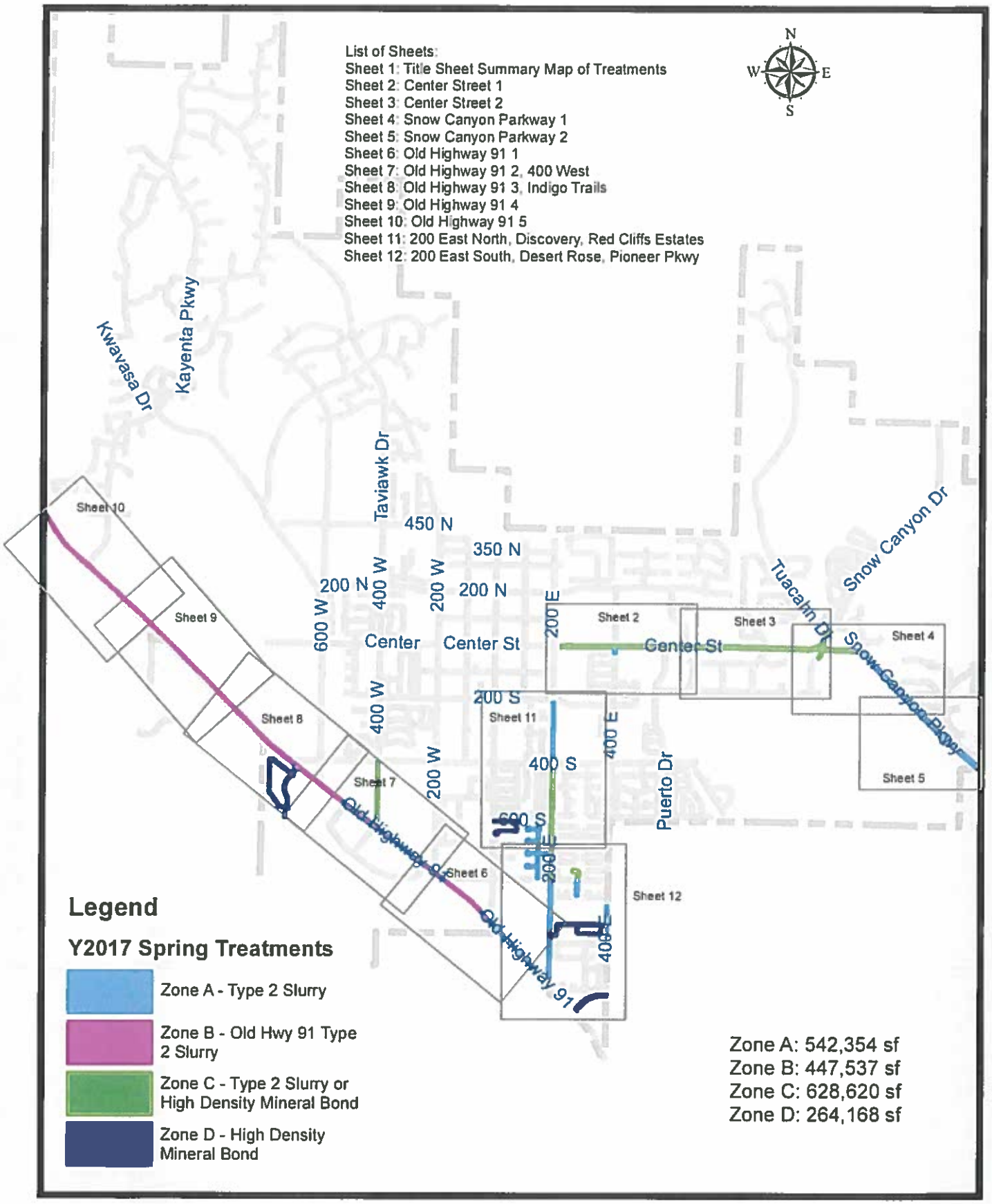
Respectfully Submitted:

Thomas J. Jorgensen, P.E., Assistant Public Works Director

Content Review:

Dale Coulam, City Manager

Ivins City 2017 Spring Pavement Management



Sheet 1

Title Sheet: Summary Map of Treatments