Ivins City
Engineering Report to City Council
August 13, 2015

Pumping Station Upgrades: Staff is working with the design engineer to finalize a design of the Tuacahn Pumping Station upgrade with plans to start bidding in September.

Ivins Reservoir: At the previous council meeting, it was approved to remove additional material at the reservoir. The work will be completed in late August.

Red Mountain Dams Rehabilitation: The Red Mountain Dams Draft Environmental Assessment is complete and we are waiting for a biological opinion from the US Fish and Wildlife. The NRCS has received funds for the design and we will start a consultant selection process so that we will be ready to proceed with the design once the environmental approvals are complete.

Master Planning: Working on RFPs for irrigation and sewer master plan. The plan is to complete these projects using CIB funding which will be available in August.

Storm Drain Master Plan: Bowen Collins & Associates is working on the study and finalizing the draft for review by the City Council at the first meeting in September.

Transportation Master Plan: The transportation master plan is also being finalized and it is hoped to have draft ready to present in September.

200 East Wall: The project should be complete this week.

Red Rock Park Drainage Modification: The project had to be delayed due to the change order but should be completed this week.

200 East Curb, Gutter and Sidewalk (Family Dollar): The curb, gutter and sidewalk has been extended to the Lightfoot's gas station in accordance with the development agreement with Family Dollar. Lightfoot's has also reconstructed the Chevron sign to make room for the sidewalk to extend to 520 South. This work should be completed in late August.

City Wide Drainage Improvements: As a result of recent flooding staff has been working on the following projects as a means to make some improvement to drainage systems.

- Add inlets at 500 East Center Street – completed.
- Tie together storm drain pipelines at 200 North – completed.
- Construct berm at 550 West Center Street – completed.
- Extend curb and gutter down west side of 100 West past Best home – completed.
- Add inlets at 400 South Street at approximately 130 West – completed.
- Repair berm/ditch on north side of Vermilion Cliffs in the Reserve – completed.
- Remove sediments and repair outlet on Tuacahn Wash Detention Dam – completed.
- Adding inlets to east side of Wintook Drive (shared cost between HOA and adjacent lot owner) – completed.
- Adding inlets to west side of Taviawk Drive (shared cost between HOA and adjacent lot owners) – completed.

- Kayenta Debris Basins on Coyote Gulch – request for funding submitted to NRCS
- Improve inlet efficiency at 600 West Center Street – Terry Marten has indicated that Kayenta is willing to provide temporary detention at 100 N 600 W. We believe that the 48 inch storm drain pipeline is not filling to capacity at 600 W Center Street and that we could extend a 36-inch pipeline to the temporary detention basin that we could remove a significant amount of flood water from the drainage system and discharge it to the Kayenta Wash. Project costs, however, could be significant (~$120,000), and funding sources are unknown at this point.
- Improve inlet efficiency at 450 North 400 West (and 600 West) – Looking at this area to see if more water can be diverted to the Kayenta Wash in the existing 24-inch pipeline in 450 North.
- Upsize culverts at Highway 91 / Kayenta Wash Crossing – completed.
- 500 E Center Street Flood Retention Wall – construct wall on Center Street to divert water to Puerto Drive rather than wash behind homes. City is working on a design with an intent to construct next fiscal year.
- 400 E Storm Drain Extension from Center St to 200 N – City is looking to extend the storm drain 1200 feet to reduce erosion in the existing channel from runoff by the upstream developments. Budgeted for next fiscal year.
- Taviawk Diversions to Kayenta Wash – Kayenta Developer is working with City to identify opportunities to divert water to the Kayenta Wash through the Kwavasa Drive cut. This requires a SITLA drainage easement which Kayenta is working to acquire. Kayenta is also considering providing an additional detention basin not previously considered. Kayenta claims to have obtained the easement from SITLA.

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Charles Gillette P.E., City Engineer Date