Ivins City
Engineering Report to City Council
November 13, 2014

NRCS Mitigation Main Street Outfall: The contractor plans to start the work on November 17, 2014. The project is a 30 day contract and should complete in December.

Red Mountain Dams Rehabilitation Evaluation: The draft Environmental Assessment should be released for a 30 day public comment period very soon. After the 30 day public comment period it is hoped that the document can be finalized depending on how fast US Fish and Wildlife can prepare the biological opinion. After this environmental process is completed, the project would then proceed to the process of preparing a design.

Center Street Trail Lighting: The project was completed and the lights have been energized.

Pumping Station Upgrades: The Taviawk Pumping Station is operating at the limits of its capabilities and needs to be upgraded this winter. Staff has solicited proposals from engineering firms to prepare a design to upgrade the system. See staff report for agenda item for more details.

Taviawk Tank Overcoat: Last winter, the Taviawk Tank was recoated on the interior. We were lacking enough budget to complete the overcoat that is needed. Staff is working to solicit bids to complete the overcoat this winter.

Irrigation Master Plan: Staff is working on updating the irrigation master plan and to improve the implementation plan of bringing the system online over the upcoming few years.

Storm Drain Master Plan: Based on recent flooding, staff is seeking to revise the storm drain master plan to identify how the City can adapt the storm drain system to handle larger storm events then previously planned for. A request for proposals has been issued to have a consultant start working on this. It is expected that staff will be requesting an expenditure approval from City Council at the next meeting.

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 – done
- Tie together storm drain pipelines at 200 North – done
- Construct berm at 550 West Center Street – done
- Extend curb and gutter down west side of 100 West past Best home – seeking bids
- Add inlets at 400 South Street at approximately 130 West – to be completed by Public Works crew when available.
- Repair berm/ditch on north side of Vermilion Cliffs in the Reserve – Waiting for inactive tortoise season.
- Remove sediments and repair outlet on Tuacahn Wash Detention Dam – Waiting for inactive tortoise season.

- Adding inlets to east side of Wintook Drive (shared cost between HOA and adjacent lot owner) – Under Construction
- Adding inlets to west side of Taviawk Drive (shared cost between HOA and adjacent lot owners) – Under Construction
- 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 – working on a design with NRCS.
- 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 this winter.
- 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.
- 200 North Berm at 400 West – Property owner Val Walton has indicated that he would be willing to construct a berm to cut off storm runoff that is passing through Tenaya Sands and then dedicate the remaining part of 200 North Street and the City would then take over maintenance of the berm.
- 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.



Charles Gillette P.E., City Engineer Date