Ivins City Staff Report
City Council Meeting 12/18/2014

Agenda Item: Approve expenditure for change order to Contract 14-07 Central Ivins Storm Drain Outfall Repair

Submitted by: Charles R. Gillette, P.E., City Engineer

Recommended City Council Action:
Approve expenditure of $30,000 for change order to Contract 14-07 Central Ivins Storm Drain Outfall Repair

BACKGROUND:

On October 16, 2014, City Council approved $90,000 for Contract No. 14-07 Central Ivins Storm Drain Outfall Repair. The plan was to repair the outfall by partially filling the five foot thick rock armoring with three feet of concrete grout. The work was completed according to this plan, however, there appears to be some concern that concrete grout is not protecting the underlying soil from scouring because the perpetual water flow that discharges from the storm drain disappears through a short section of the outfall and then resurfaces lower. It is possible that this water is not reaching subgrade however; it seems to be a risk not worth taking while federal monies are available for the project. NRCS is willing to expand the scope of the project to grout the rest of the spillway.

There was some contingency money approved in the original expenditure approval. This money was used to expand the scope of the project to include the repair of the culverts on the Tuacahn Wash on the sewer service road located on property owned by SITLA where significant damage was sustained to 48-inch culverts.

FINDINGS AND ANALYSIS:

Based on unit prices and estimates of the additional concrete grout that is needed, staff estimates that the cost to install the additional grout will be $25,000. This request is for council to authorize $30,000 in case our estimates are low.

SUPPORT MATERIALS:

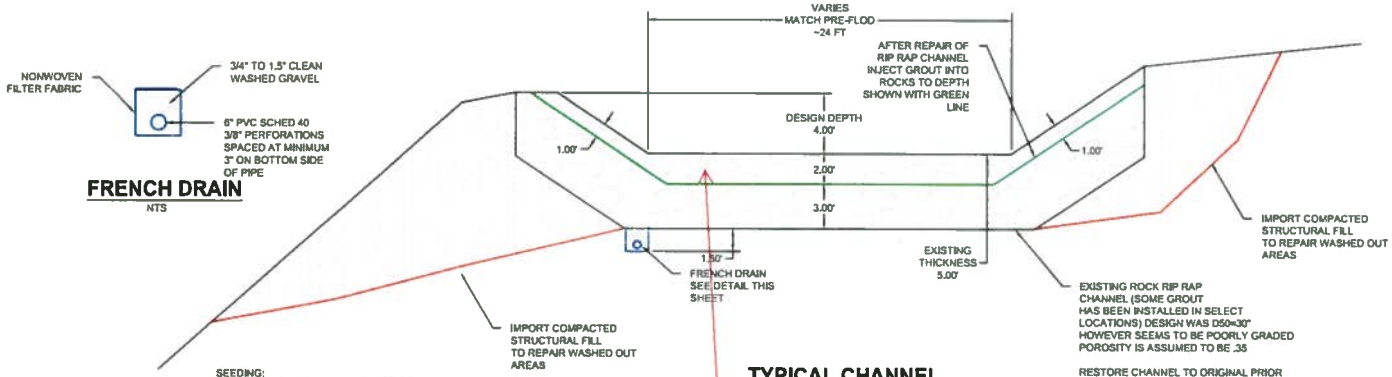
- Detail Drawing

FINANCIAL IMPACT:

The project has received funding from NRCS from their Emergency Watershed Protection program. This provides 65% funding of the project. City pays a 35% match.
G/L53-42-877: $30,000 (actual impact to City is $10,500)

Respectfully Submitted: _____
Charles R. Gillette, P.E., City Engineer

Content Review: _____
Dale Coulam, City Manager



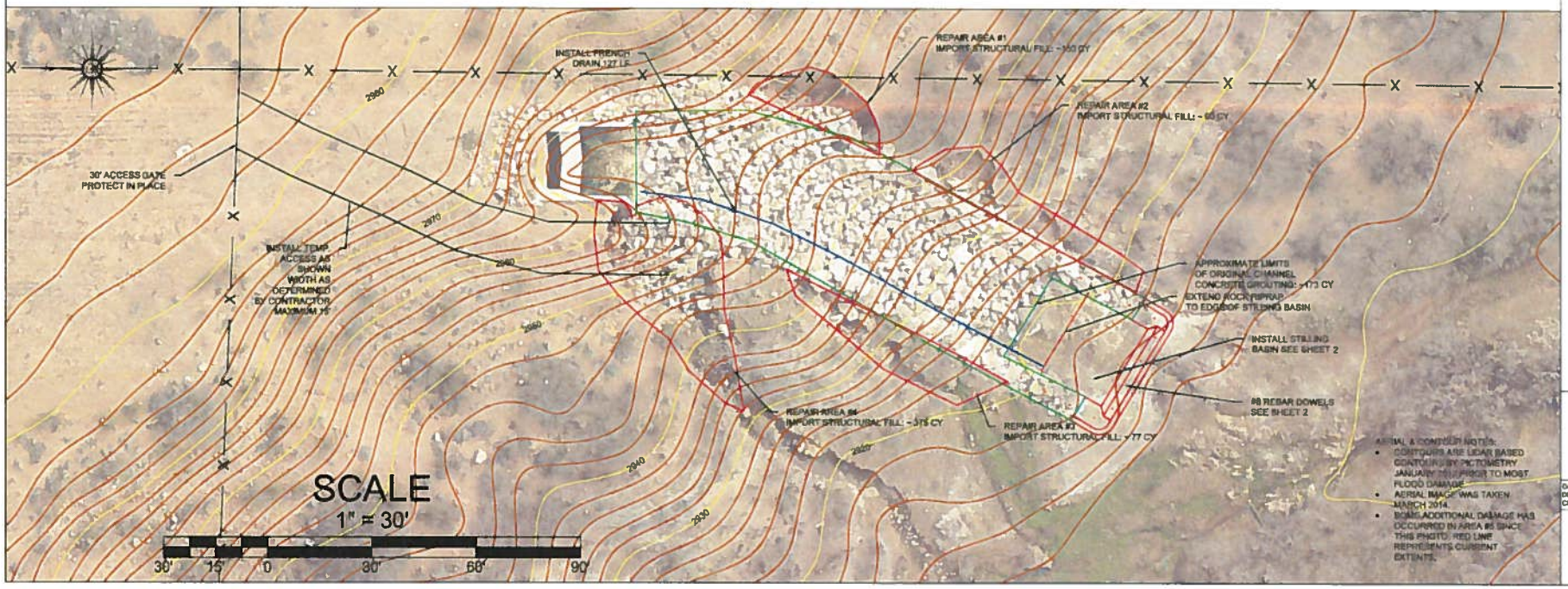
SEEDING:

WHEATGRASS, SIBERIAN	7.96 LBS/AC
WHEATGRASS, HYCREST	7.30 LBS/AC
FORAGE KOCHIA	2.42 LBS/AC
FOURWING SALTBUSH	2.56 LBS/AC
DROPSEED, SAND	0.45 LBS/AC

Area to filled with 100% concrete grout

TYPICAL CHANNEL SECTION
NTS

CONSTRUCTION NOTES:
1. CONTRACTOR SHALL MINIMIZE DISTURBANCE BY KEEPING ALL EQUIPMENT WITHIN THE ACCESS ROAD AS SHOWN OR IN THE CHANNEL UNLESS THIS IS IMPOSSIBLE TO MAKE THE REPAIRS.
2. CONTRACTOR RESPONSIBLE FOR ALL SURVEY.
3. CONTRACTOR RESPONSIBLE FOR ALL TESTING.
4. CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH AN APPROVED SEED MIX.
5. IT MAY BE NECESSARY TO IMPORT ADDITIONAL ROCK FOR CHANNEL FOR COMPLETE RESTORATION. SEE BID SHEET FOR A PLAN QUANTITY TO BE BILLED AT A UNIT PRICE.
6. STRUCTURAL FILL IS DEFINED AS A BORROW MATERIAL PER APWA SPECIFICATION 31 05 1. SOME NATIVE MATERIALS MAY CLASSIFY AS STRUCTURAL FILL.
7. THE CONTRACTOR IS REQUIRED TO SALVAGE AS MUCH EXISTING ROCK AS REASONABLE BEFORE IMPORTING NEW ROCK.
8. ANY NEW ROCK IMPORTED SHOULD BE OF SIMILAR COLOR AND DURABILITY MEETING THE REQUIREMENTS OF APWA SECTION 31 37 00. SAMPLE MUST BE PROVIDED PRIOR TO SELECTION OF ROCK SOURCE.
9. USE PORTLAND CEMENT GROUT THAT IS IN ACCORDANCE WITH APWA SECTION 03 61 00.



AERIAL & CONTOUR NOTES:
- CONTOURS ARE LIDAR BASED CONTOURS BY PICTOMETRY JANUARY 2013 PRIOR TO MOST FLOOD DAMAGE.
- AERIAL IMAGE WAS TAKEN MARCH 2014.
- SOME ADDITIONAL DAMAGE HAS OCCURRED IN AREA #5 SINCE THIS PHOTO. RED LINE REPRESENTS CURRENT EXTENTS.

IVINS CITY
55 N. Main Street
Ivins, Utah 84738
435-634-0689
435-674-5486 (fax)

CONTRACT 14-xx: CENTRAL IVINS STORM DRAIN OUTFALL REPAIR

RESTORATION AND MITIGATION PLAN

DATE: 9/23/2014
DRAWN BY: CRG
CHECKED BY: CRG

SHEET NO.
2

TOTAL SHEETS: 3