



GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Water Rights

KENT L. JONES
State Engineer/Division Director

February 19, 2013

RE: Stream Channel Alteration No. 13-55-03SA
American Fork River
Utah County Government / Public Works Dept.

Attached is a copy of an application to alter a natural stream, which has been submitted to the Division of Water Rights (Division) for processing.

In processing this application, the Division will work to determine if the project will:

- Unreasonably or unnecessarily affect any recreational use or the natural stream environment;
- Unreasonably or unnecessarily endanger aquatic wildlife;
- Unreasonably or unnecessarily diminish the natural channel's ability to convey high flows; or
- Impair vested water rights.

Any decision made regarding this application will be based exclusively on these four criteria. If you have information regarding these four criteria that will aid the Division in making a determination and subsequent decision, please submit this information, in writing, to this office prior to **March 11, 2013**. For questions or comments pertaining to all other aspects of the project, please contact the applicant listed on the front page of the application directly.

Sincerely,

Tiffany Gonzales
for Chuck Williamson, P.G.
Stream Alteration Specialist

Pc: Richard Clark - EPA
Corps of Engineers
Supervisor - U. S. Fish & Wildlife
Teresa Wilhelmsen - Regional Engineer
Mark Farmer - Regional Wildlife Habitat Manager
Carmen Bailey - Aquatic Habitat Coordinator
Bill Damery - DEQ, Water Quality Division
Laura Ault - Forestry Fire & State Lands
Kelly Beck - RDCC Coordinator
State Parks & Recreation
Lori Hunsaker - State History
W. D. Robinson - Department of Agriculture
Judy Watanabe - CEM



Rec. by CJWC
 Fee Rec. \$ 500
 Receipt # 13-00615

JOINT PERMIT APPLICATION FORM
U.S ARMY CORPS OF ENGINEERS – FOR SECTIONS 404 AND 10
UTAH STATE ENGINEER’S OFFICE – FOR NATURAL STREAM CHANNELS

Application Number 13-55-03SA
 (assigned by): _____ Corps _____ State Engineer

Applicant's Name (Last, First M.I. or entity if not an individual)	Authorized Applicant Representative (if any)	Applicant's Telephone Number and Area Code
Utah County Government/Public Works Dept	Richard J Nielson/Glen G Tanner	801-851-8600
		Representative's Telephone Number and Area Code
		801-851-8622

Applicant's Address (Street, RFD, Box, Number, City, State, Zip)
 2855 South State Street
 Provo, UT 84606

X: 432031.38 PROJECT LOCATION Y: 4467277.97

Quarter Section(s)	Section	Township	Range	Base & Meridian
S/N <u>NW SE</u>	<u>26/35</u>	<u>5S</u>	<u>1E</u>	<u>Salt Lake</u>

County	Associated Watercourse or Watercourse to be Altered	Check one: <input type="checkbox"/> Within City Limits <input checked="" type="checkbox"/> Outside City Limits
Utah	American Fork River	List town or nearest town: American Fork

Project location or address:
 approx beginning 6800 N 6000 W to the convergence with Utah Lake

Brief description of project including methods and equipment to be employed to complete the work:
 Replace existing culvert structure which is located at 6400 N and 6000 W with a new concrete culvert structure that is 20 ft wide, 6 ft high, and 64 ft long with required wing walls. Replace existing culvert structure which is located at approximately 6200 N and 6000 W with a new concrete culvert structure that is 20 ft wide, 6 ft high, and 24 ft long with required wing walls which was damaged during flooding. In conjunction with replacement of culverts, there will be 4900 linear feet of dredging, shaping and removal. See attached drawing for proposed cross section.

Purpose (justification) of project:
 Current bridge structures were damaged during flood making them unsafe for public use as well as an impediment in the flow of the water in the channel. The dredging of the channel would increase the streams capacity allowing flows to remain in banks and reducing damage to surrounding landowners during high water times. Reshaping the banks of the river will eliminate low or narrow areas that have been caused by overtopping of the river, excessive burrowing of rodents, and trampling by livestock or other human effects.

Is this a single and complete project or is part of a larger project, continuing project, or other related activities? If so, please describe the larger project or other related activities.
 This is a single and complete project.

If project included the discharge of dredged or fill material into a watercourse or wetland:

Cubic yards of material: NONE

Acreage or square footage of waters of the United States affected by the project:

Source and type of fill material:

Length of stream that will be impacted below ordinary high water elevation: 110'

RECEIVED
FEB 14 2013 JH
WATER RIGHTS
SALT LAKE

Alternatives (other ways to accomplish project purpose):

There appears to be no other alternatives.

Describe any proposed mitigation to offset impacts to the stream channel.

Replace culverts that impair the flow, restrict the movement of wildlife and do not allow for natural habitation with larger culverts that will allow for greater flow of water, more movement of wildlife, and the establishment of native nature.

Cultural resource impacts:

Are you aware of any cultural resources or any historic properties that will be impacted by the proposed project? Yes No
If Yes, please explain:

Has a cultural resource survey been conducted on the property where the proposed project is to occur? Yes No
If Yes, please briefly explain the survey results:

List other authorizations required by Federal, state, or local governments (i.e.: National Flood Insurance Program), and the status of those authorizations.

Unaware of any other authorizations needed.

Estimated starting date of project:

2/26/2013

Estimated completion date:

6/3/2013

Please complete the following checklist

Failure to indicate that all pertinent information has been submitted will result in your application being returned.

- Appropriate application processing fee payment (see fee schedule below).
- A clear site location map with enough detail to easily find the site, a recent aerial/satellite image of the site, and a USGS topography map (7.5 minute quadrangle map is recommended).
- Plan view and cross-sectional drawings showing all work requiring a permit, including fills, structures, borrow sites, staging areas and storage areas. The drawings must clearly demarcate the ordinary high water mark of the waters of the U.S. to be impacted. Professional drawings are not required; however, drawings must be scaled or indicate dimensions of the work to be completed.
- A restoration plan for any areas temporarily disturbed during work, including re-contouring, revegetation with appropriate native plants and maintenance and monitoring to ensure success for the restored area.
- Ground photographs taken from various locations of the proposed disturbance area.
- Please check the box if the proposed project involves bank stabilization or protection. If so, please complete the following:
 - A narrative demonstrating the proposed activity incorporates the least damaging bank protection methods. These methods include, but are not limited to, the use of bioengineering, biotechnical design, root wads, large woody debris, native plantings, and beach nourishment in certain circumstances. If rock must be used due to site erosion conditions, explain how the bank stabilization structure incorporates elements beneficial to aquatic organisms.

- A description of current and expected post-activity sediment movement and deposition patterns in and near the activity area.
- A description of current and expected post-activity habitat conditions, including the presence of fish, wildlife and plant species in the activity area.
- An assessment of the likely impact the work would have on upstream, downstream and cross-stream properties (at a minimum the area assessed should extend from the nearest upstream bend to the nearest downstream bend of the watercourse). Specifically, discuss how the project will impact the following:
 - Will the activity accelerate deposition or erosion?
 - Will impacts to sensitive species or habitats result from a change in suspended sediment load or turbidity?
 - Will the activity affect the diversity of the channel by eliminating in-stream habitat, meanders, or gravel bars?
 - Will the activity result in a shift in the main flow patterns?
- A planting plan which involves the use of native riparian plants, unless the applicant demonstrates it is not appropriate or not practicable.

Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in the application, and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities or am acting as the duly authorized agent of the applicant which is a (check one of the following) commercial , non-commercial , or governmental entity.

Signature of Applicant Utah County Date: February 11, 2013

I hereby certify that Glen G Tanner is acting as my agent on this project.

Agent's address and telephone number: 2855 South State Street, Provo, UT 84606 (801-851-8622)

Filing Instructions

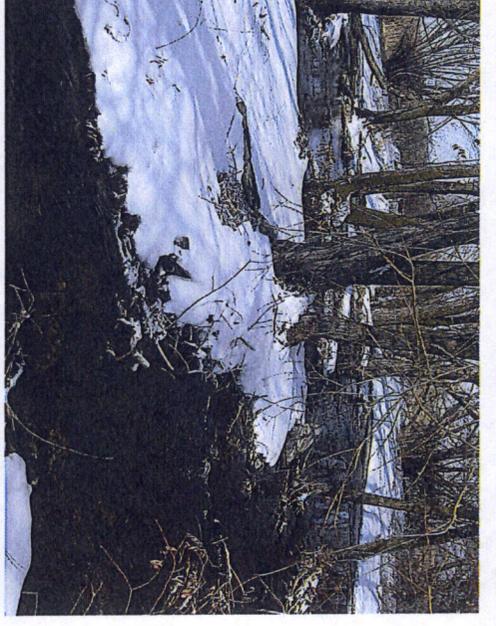
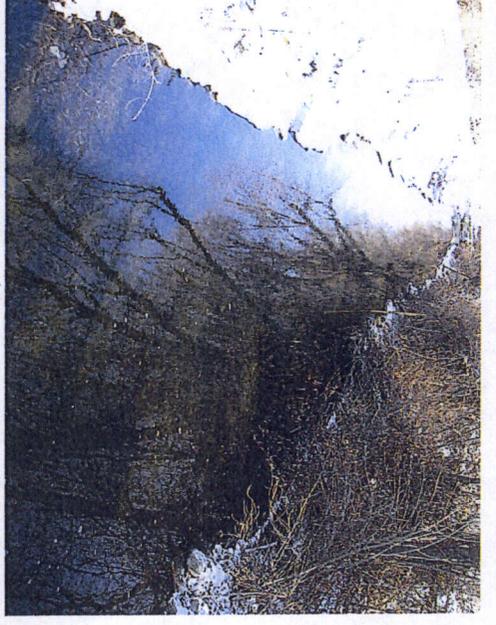
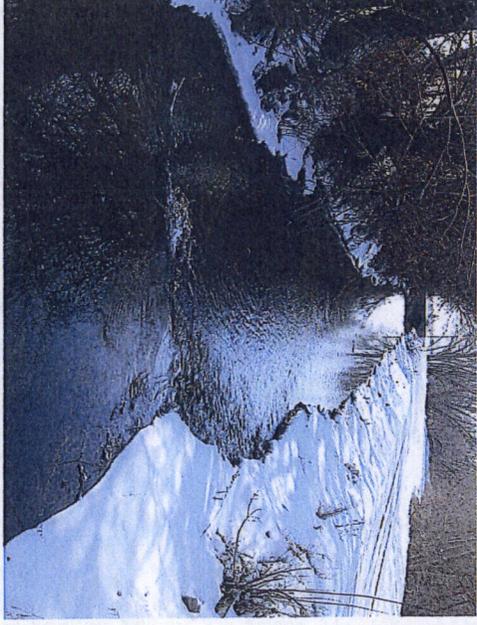
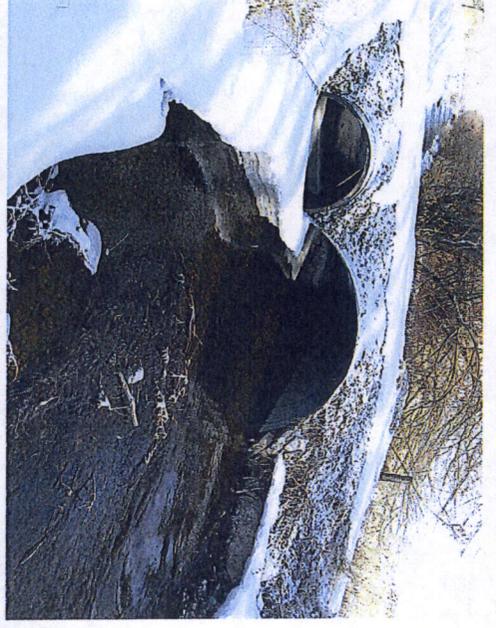
Application supplements should be submitted on paper no larger than 11 x 17 inches or alternatively as PDF format electronic files. If more than one watercourse is to be altered as a result of the project, a separate application must be submitted for each watercourse. Application fees must be received by the Division of Water Rights at the time of application submission and must be either hand delivered or submitted through standard mail.

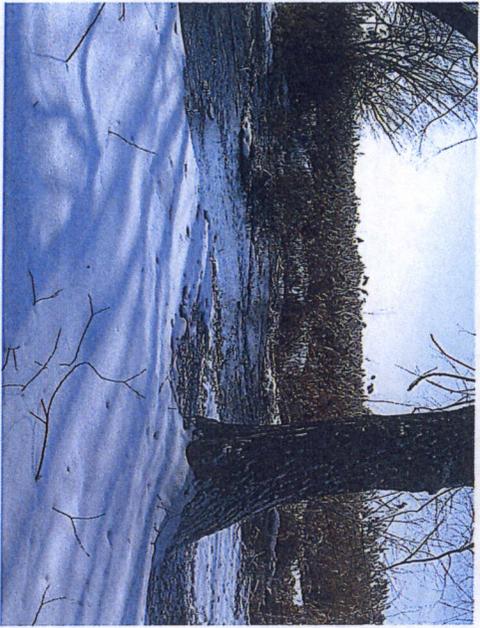
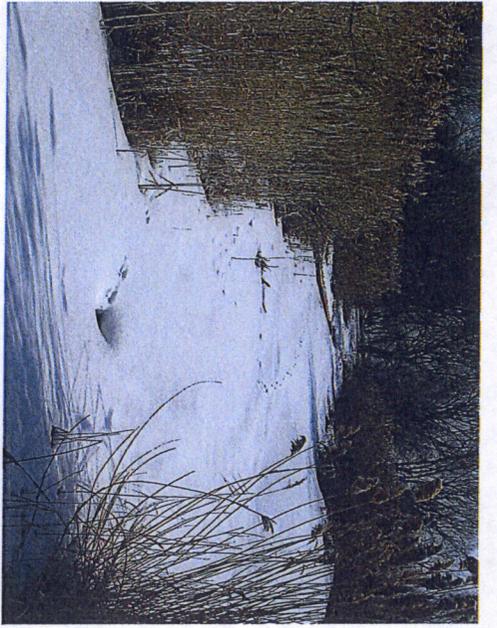
Application Processing Fees

Application fees are based on the type of entity applying for the proposed stream alteration project.

Commercial Entities:	\$2000.00	per application processed.
Non-Commercial Entities:	\$100.00	per application processed.
Governmental Entities:	\$500.00	per application processed.









Stream Alteration Home
Stream Alteration Database
Recreational Dredging
Application Forms
Fact Sheets
Utah Code
Administrative Rules
FAQ
Stream Alteration Map
Stream Alteration Google Map
Contacts

Stream Alteration Permit Application Forms

Revised: February 15, 2008

Select a form, enter information, print, and submit to the Division of Water Rights to begin the permit process.

[Joint Permit Application Form](#). This [PDF document](#) is an editable form used to apply for a stream alteration permit.

On January 3, 2011 the U.S. Army Corps of Engineers issued a revised version of General Permit 40 (GP-40). To reflect changes to this general permit, the Joint Permit Application Form has been modified accordingly. Please be aware that new GP-40 has instituted changes to how applications are processed, the responsibility of permit holders and what projects qualify for approval under GP-40. Applicants are strongly encouraged to review the terms and conditions of GP-40 prior to application submission. Full text of this permit can be found here: [Programmatic General Permit 40](#)

For additional information and resources regarding Programmatic General Permit 40, please visit the U.S. Army Corps of Engineers' website at: [U.S. Army Corps of Engineers](#)

As of July 1, 2009 an application processing fee will be assessed for all stream alteration proposals. For details, please see the instructions at the end of the application form.

[Online Recreational Dredging Permit Application Form](#)

[Recreational Dredging Map](#)

[Application Instructions](#)

Submit Completed applications to:

Department of Natural Resources
Division of Water Rights
1594 West North Temple, Suite 220
Salt Lake City, UT 84114-6300

Utah Division of Water Rights | 1594 West North Temple Suite 220, P.O. Box 146300, Salt Lake City, Utah 84114-6300 | 801-538-7240
[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#) | [Emergency Evacuation Plan](#)

Attn: Chuck Williamson



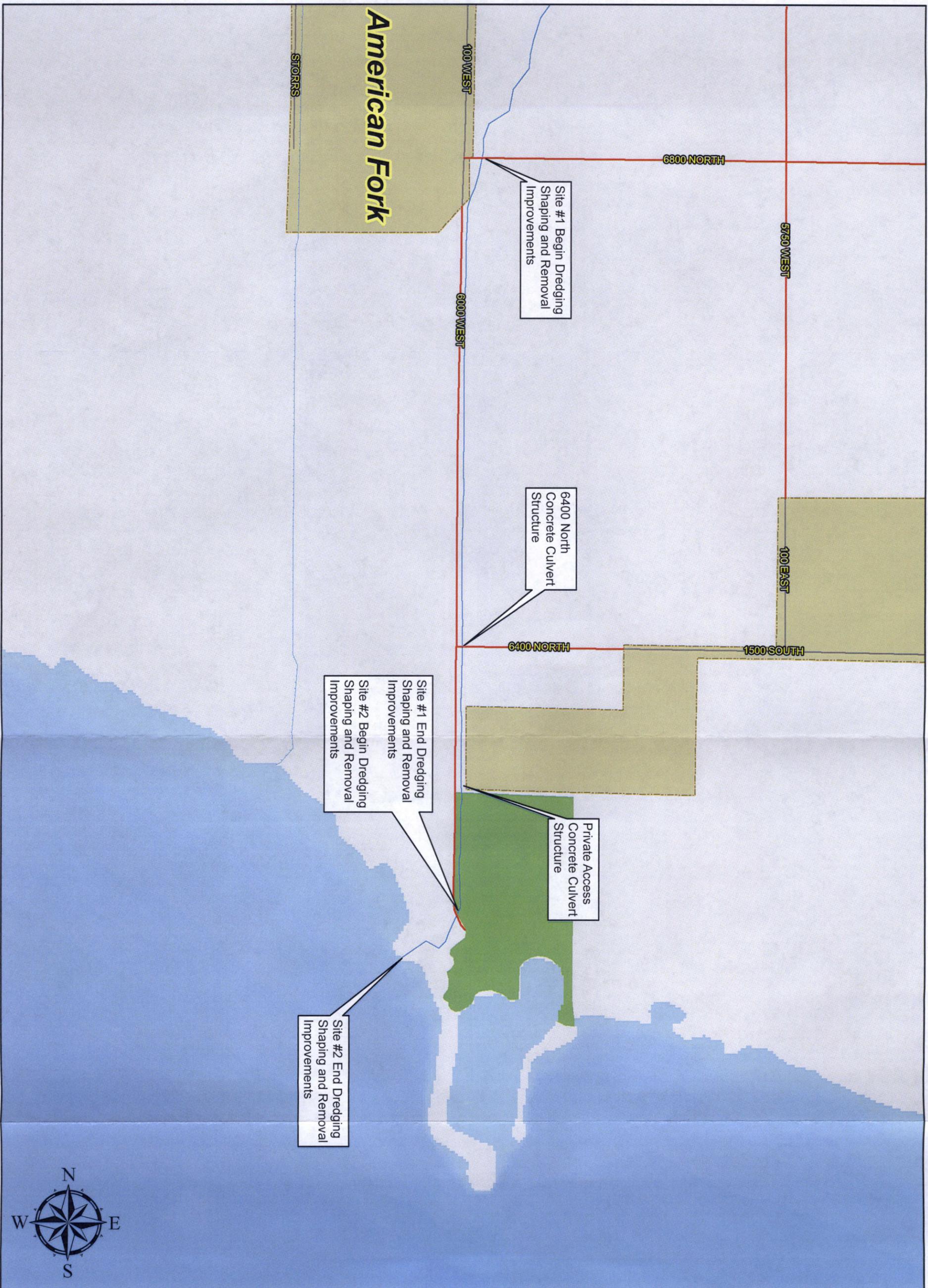
American Fork River

Dredging Project

	County Boundary
	Paved Roads
	Dirt Roads
	Gravel Roads
	Tax Parcels
Waterlines	
	Stream or River
	Intermittent Stream
	Canal or Ditch
	Pipeline
	Tunnel
2011 Photo (6 inch)	
RGB	
	Red: Band_1
	Green: Band_2
	Blue: Band_3



 1:6,000
 1 inch = 500 feet
 Utah County Information Systems GIS Division
 2855 South State Street
 Provo, UT 84606
 (801) 851-8626
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 Date: 2/11/2013 Printed by: Curtis W
 Doc: AmericanForkRiver_11X17



American Fork River

Dredging Project

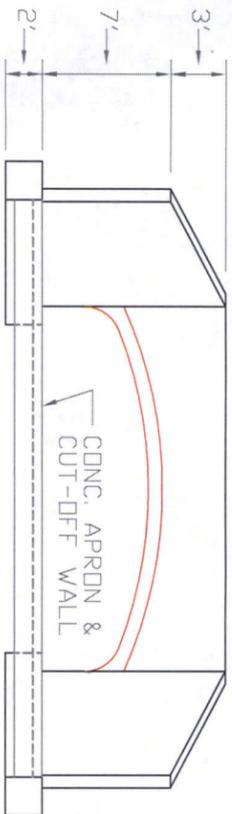
- County Line
- County Owned Paved Roads
- County Owned Unpaved Roads
- 1-15
- US HWY/State Route
- Other FAE Route
- Paved Roads
- Dirt Roads
- Gravel Roads
- Railroads
- National Forest Boundary
- Municipal Boundary
- Wilderness Boundary
- Golf Course
- Park



1:6,000
 1 inch = 500 feet
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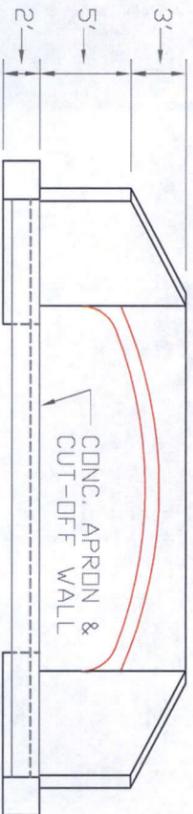
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 this map or any of the information contained
 hereon.
 Date: 2/11/2013 Printed by: CurtisW
 Doc: AmericanForkRiver_base_11x17





NOTE:
IMPERMEABLE
MEMBRANE REQ'D.
OVER STRUCTURE
WITH 8" UN-TREATED
BASE & 4" ASPHALT
OVER THE MEMBRANE.

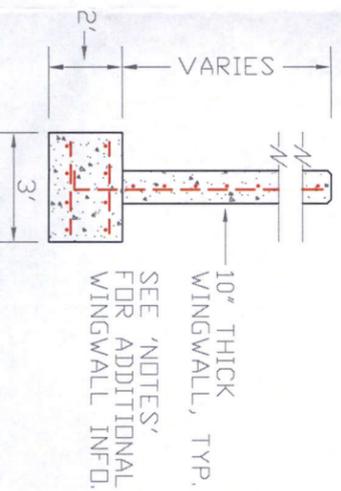
ELEVATION VIEW @
EIGHT SECTION BRIDGE
SCALE: 1" = 10'



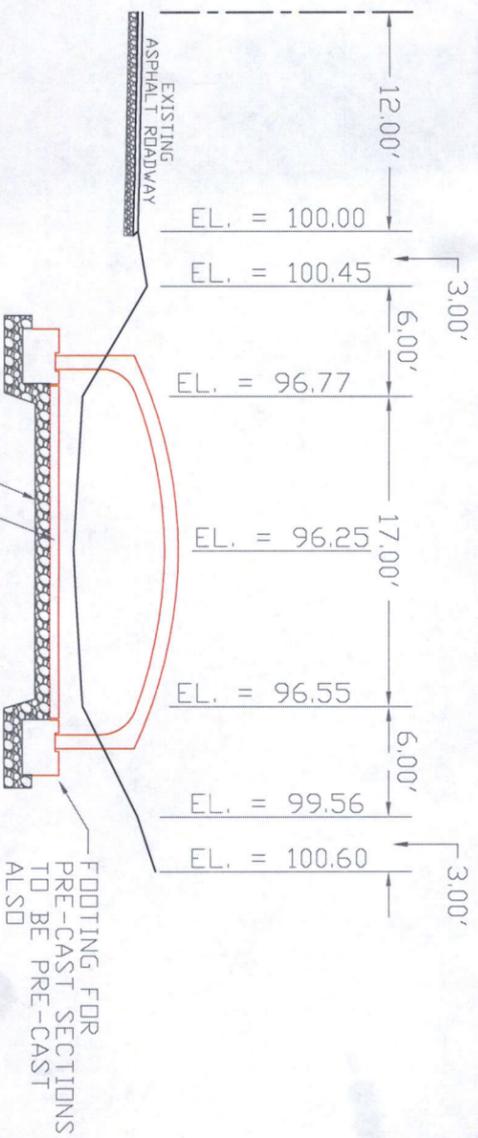
NOTE:
IMPERMEABLE
MEMBRANE REQ'D.
OVER STRUCTURE
WITH 8" UN-TREATED
BASE

ELEVATION VIEW @
THREE SECTION BRIDGE
SCALE: 1" = 10'

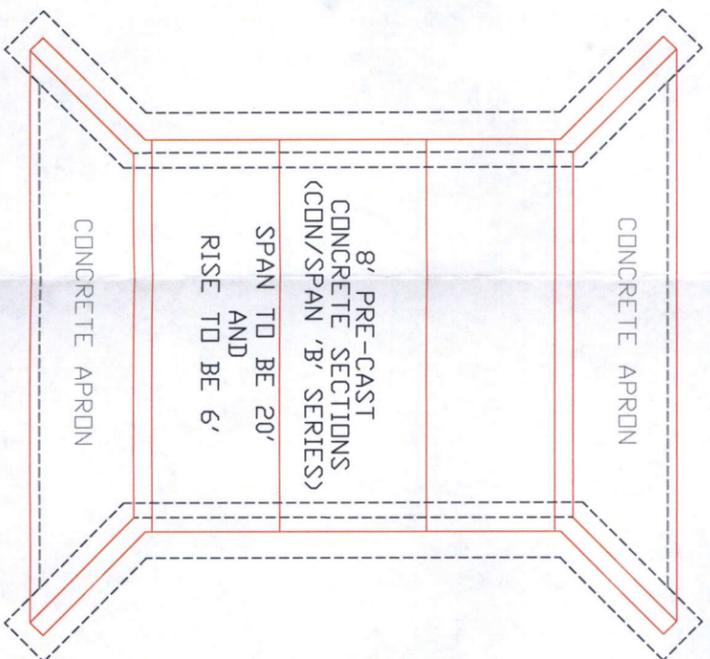
- NOTES:
- 1) WINGWALLS TO BE 10" THICK WITH CHAMFERED TOP EDGES
 - 2) REBAR IN WALLS TO BE #5 BARS @ 8" O.C. (VERT.) AND #5 BARS @ 10" O.C. (HORIZ.)
 - 3) WINGWALL LENGTH TO BE 8' (MAX.)
 - 4) FOOTINGS TO BE 3' WIDE BY 2' THICK WITH (2) MATS OF REBAR, (4) #5 BARS CONT. & 30" #5 CROSS BARS @ 16" O.C.
 - 5) APRONS TO MATCH FLOOR SLAB FOR THICKNESS, REBAR, AND REBAR SPACING, EACH APRON TO HAVE AN 18" 'CUT-OFF' WALL.
 - 6) PRE-CAST INLET & OUTLET SECTIONS TO HAVE EXPOSED DOWELS FOR HEADWALL TIE-IN.



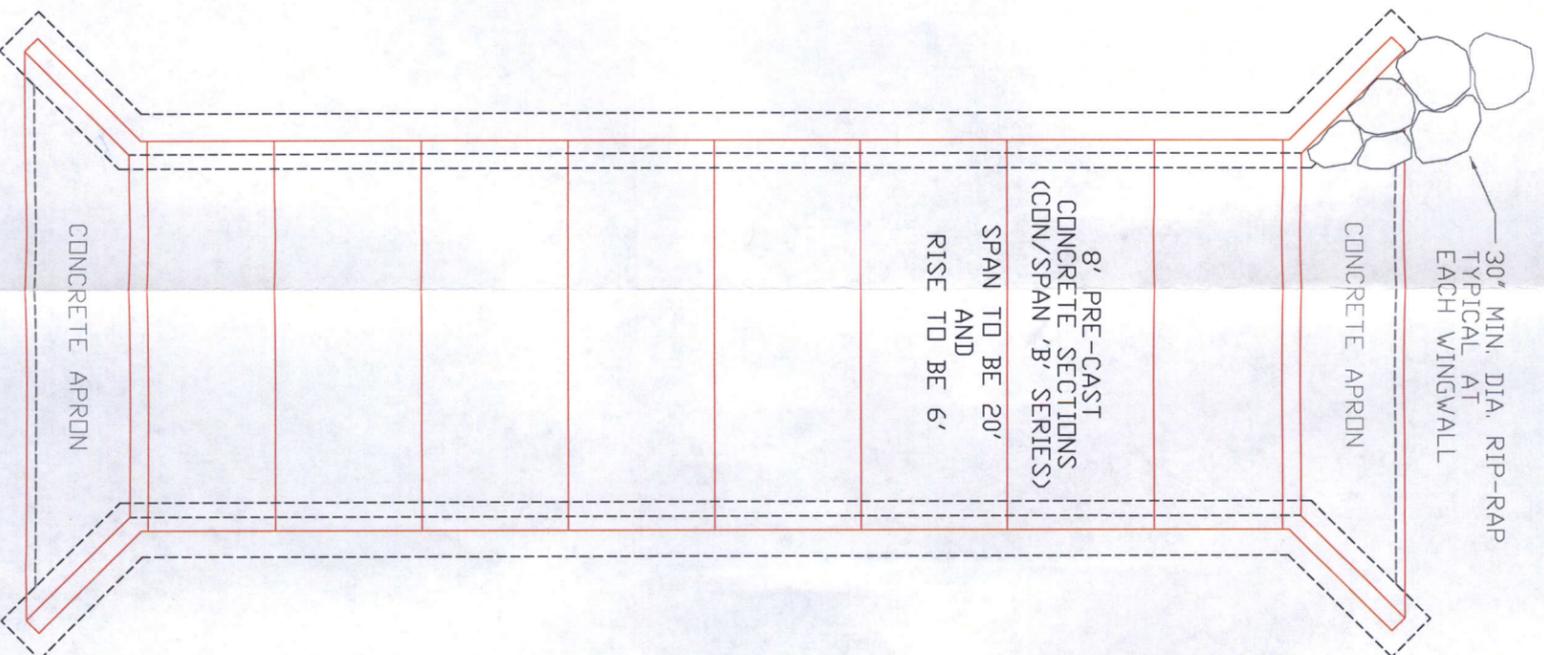
WINGWALL DETAIL
SCALE: 1" = 5'



SECTION VIEW @
SCALE: 1" = 10'



PLAN VIEW @
PROPERTY ACCESS
(3 SECTION BRIDGE)
SCALE: 1" = 10'



PLAN VIEW @
6400 NORTH
(7 SECTION BRIDGE)
SCALE: 1" = 10'