

**FUTURE FISHERIES IMPROVEMENT PROGRAM
GRANT APPLICATION**

(please fill in the highlighted areas)

I. APPLICANT INFORMATION

A. Applicant Name: Big Blackfoot Chapter of Trout Unlimited

B. Mailing Address: PO Box 1

C. City: Ovando State: MT Zip: 59854

Telephone: 406-240-4824

D. Contact Person: Ryen Neudecker

Address if different from Applicant:

City: State: Zip:

Telephone:

E. Landowner and/or Lessee Name
(if other than Applicant): Grosfield Ranch-Rick & Mary Sampson

Mailing Address: PO Box 32

City: Dagmar State: MT Zip: 59219

Telephone: 406.483.5265

II. PROJECT INFORMATION*

A. Project Name: Keep Cool Creek Fish Passage Improvement Project

River, stream, or lake: Keep Cool Creek

Location: Township 14N Range 9W Section 13

County: Lewis and Clark

B. Purpose of Project:

The purpose of this project is to 1) remove an undersized stream crossing on Keep Cool Creek that impedes migration corridors for trout populations during high flow periods and creates channel impairments (see photos 1-2) and 2) upgrade the crossing with a structure that will allow for habitat recovery and the uninhibited movement of wild trout.

C. Brief Project Description:

Keep Cool Creek is a spring creek tributary to the upper Blackfoot River located just north of Lincoln. The stream supports primarily brown trout, but does also support westslope cutthroat trout in headwater tributaries and limited bull trout use in the lower spring creek based on FWP telemetry studies. The incidental presence of cutthroat trout are also reported on Keep Cool Creek. The stream originates on public land and flows 12 miles before entering private land near stream mile six.

The Grosfield Ranch is one of the largest ranches in the upper Blackfoot valley with four miles of Keep Cool Creek running through it. Land ownership has changed from multi-family ownership to a single primary owner. Past projects on this ranch have involved restoring three miles of Lincoln Spring Creek and upgrading undersized stream crossings. The landowner has expressed interest in additional large-scale projects that benefit wild trout fisheries. This proposed project builds on past restoration actions and is intended to promote continued work on the ranch. The project also expands on restoration work being completed on Keep Cool Creek on the immediate downstream property.

This project will replace an undersized stream crossing (near stream-mile three) that degrades fish habitat and impedes fish passage during high flow periods. The project involves replace an existing set of paired 24" culverts with a timber bridge (width 29' 6") designed following stream simulation principles (see design detail sheet). Because the bankfull channel width is 15', the new structure will accommodate natural channel conditions, floodplain function and allow uninhibited aquatic organism passage.

A basic topographic and hydraulic field survey was conducted to locate key physical features within the area of the existing culverts. A long profile, stream cross-sections, bankfull widths, and general geomorphologic parameters were collected. The new structure dimensions were sized based on stream characteristics collected from the reference reach and hydraulic analysis. The hydraulic capacity of the structure was analyzed to ensure that it satisfies a 100-year flood event. Reference reach data collected indicated that bankfull width is close to 15 feet. Please refer to attached map, photos and design.

The existing undersized stream crossing near stream mile three will be replaced to restore connectivity to the middle reaches of Keep Cool Creek. Anticipated future work will expand the scale of this project.

D. Length of stream or size of lake that will be treated:

E. Project Budget:

Grant Request (Dollars): \$ 8,500

Contribution by Applicant (Dollars): \$ 11,790.00 In-kind \$ 2,932
(salaries of government employees are not considered as matching contributions)

Contribution from other Sources (Dollars): \$ 5,000-USFWS In-kind \$
(attach verification - See page 2 budget template)

Total Project Cost: \$ 28,222.00

F. Attach itemized (line item) budget – see template

- G. Attach specific project plans, detailed sketches, plan views, photographs, maps, evidence of landowner consent, evidence of public support, and/or other information necessary to evaluate the merits of the project. If project involves water leasing or water salvage complete supplemental questionnaire (fwp.mt.gov/habitat/futurefisheries/supplement2.doc).
- H. Attach land management and maintenance plans that will ensure protection of the reclaimed area.

III. PROJECT BENEFITS*

- A. What species of fish will benefit from this project?:

Primarily brown trout through the project reach, with benefits to westslope cutthroat trout and bull trout anticipated with the additional projects being developed upstream and downstream. Potential future projects include irrigation upgrades (fish screens and water conservation) and riparian restoration through improved grazing practices.

- B. How will the project protect or enhance wild fish habitat?:

Free-ranging, wild trout depend upon high quality habitat and connected systems. This project is an opportunity to begin the restoration process by correcting stream crossings that adversely affect habitat quality and connectivity.

- C. Will the project improve fish populations and/or fishing? To what extent?:

Yes, the project is ultimately intended to foster the spawning, rearing and movement of wild trout and thereby providing off-site recruitment to the spring creek and the Blackfoot River as well as angling opportunities on-site. Keep Cool Creek currently provides for local angling opportunities and enters a portion of the Blackfoot River that receives high angling pressure.

- D. Will the project increase public fishing opportunity for wild fish and, if so, how?:

Yes, by increasing wild trout habitat in the Blackfoot River drainage.

- E. If the project requires maintenance, what is your time commitment to this project?:

The landowner has committed to signing a 20-year landowner agreement.

- F. What was the cause of habitat degradation in the area of this project and how will the project correct the cause?:

Already answered.

- G. What public benefits will be realized from this project?:

This project involves the continuation of the Blackfoot River Restoration program by expanding restoration into the Lincoln valley and working with a large ranch in the northern portion of the Lincoln valley. Continued restoration is expected to ultimately benefit native trout as identified in other nearby spring creeks in the Lincoln valley. Public benefits include: 1) improved fisheries, 2) improved water quality (sediment reduction) and 3) ultimately contribute to the recovery of imperiled native trout.

- H. Will the project interfere with water or property rights of adjacent landowners? (explain):

No

I. Will the project result in the development of commercial recreational use on the site?: (explain):

No

J. Is this project associated with the reclamation of past mining activity?:

No

Each approved project sponsor must enter into a written agreement with the Department specifying terms and duration of the project.

IV. AUTHORIZING STATEMENT

I (we) hereby declare that the information and all statements to this application are true, complete, and accurate to the best of my (our) knowledge and that the project or activity complies with rules of the Future Fisheries Improvement Program.

Applicant Signature: Ryan Newdecker Date: 5/28/14

Sponsor (if applicable):

*Highlighted boxes will automatically expand.

Mail To: Montana Fish, Wildlife & Parks
Habitat Protection Bureau
PO Box 200701
Helena, MT 59620-0701

Incomplete or late applications will be returned to applicant.

Applications may be rejected if this form is modified.

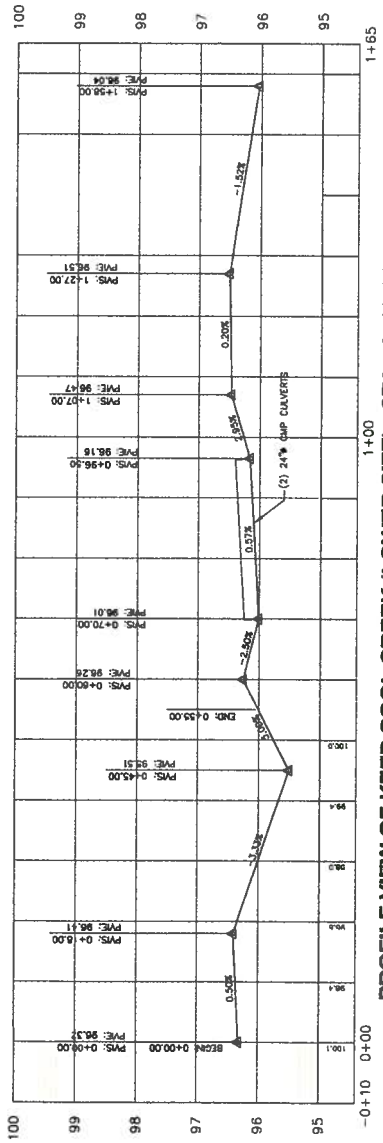
Applications may be submitted at anytime, but must be received by the Future Fisheries Program office in Helena before December 1 and June 1 of each year to be considered for the subsequent funding period.

BUDGET TEMPLATE SHEET FOR FUTURE FISHERIES PROGRAM APPLICATIONS
(Revised 5/28/2014)

WORK ITEMS (ITEMIZE BY CATEGORY)	NUMBER OF UNITS	UNIT DESCRIPTION*	COST/UNIT	TOTAL COST	CONTRIBUTIONS			TOTAL
					FISHERIES REQUEST	IN-KIND SERVICES	IN-KIND CASH	
Personnel								
Survey	6	hours	\$50.00	\$ 300.00		\$300		\$ 300.00
Design	10	hours	\$90.00	\$ 900.00			\$ 900.00	\$ 900.00
Permitting	10	hours	\$40.00	\$ 400.00		\$400		\$ 400.00
Oversight	40	hours	\$50.00	\$ 2,000.00		2,000.00		\$ 2,000.00
Labor	50	hours	\$45.00	\$ 2,250.00	1,250.00		1,000.00	\$ 2,250.00
Travel								
Mileage	400	miles	\$0.58	\$ 232.00		232.00		\$ 232.00
Construction Materials								
Rock armor (8"- 12")	23	cubic yards	\$30.00	\$ 690.00			\$690	\$ 690
Precast concrete abutments	2	each	\$1,500.00	\$ 3,000.00	\$1,500			\$3,000
Stringers	13	each	\$500.00	\$ 6,500.00			\$1,500	\$6,500
Connectors	LS	LS	\$1,000.00	\$ 1,000.00	500.00		500.00	\$1,000
Decking	473	SF	\$10.00	\$ 4,730.00	\$3,000		\$1,730	\$4,730
Equipment								
Hydraulic Excavator	40	hours	\$125.00	\$ 5,000.00	1,500.00			\$ 5,000.00
Dump Truck	8	hours	\$90.00	\$ 720.00	500.00			\$ 720.00
Mobilization								
Mob/demob	1	lump sum	\$500.00	\$ 500.00	250.00			\$ 500.00
TOTALS					\$ 8,500.00	\$ 2,932.00	\$ 16,790.00	\$ 28,222.00

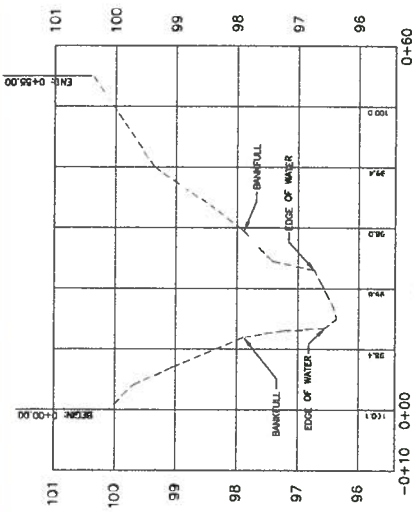
MATCHING CONTRIBUTIONS

CONTRIBUTOR	IN-KIND SERVICE	IN-KIND CASH	TOTAL
USFWS	\$ -	\$ 5,000.00	\$ 5,000.00
BBCTU	\$ 2,932.00	\$ 11,790.00	\$ 14,722.00



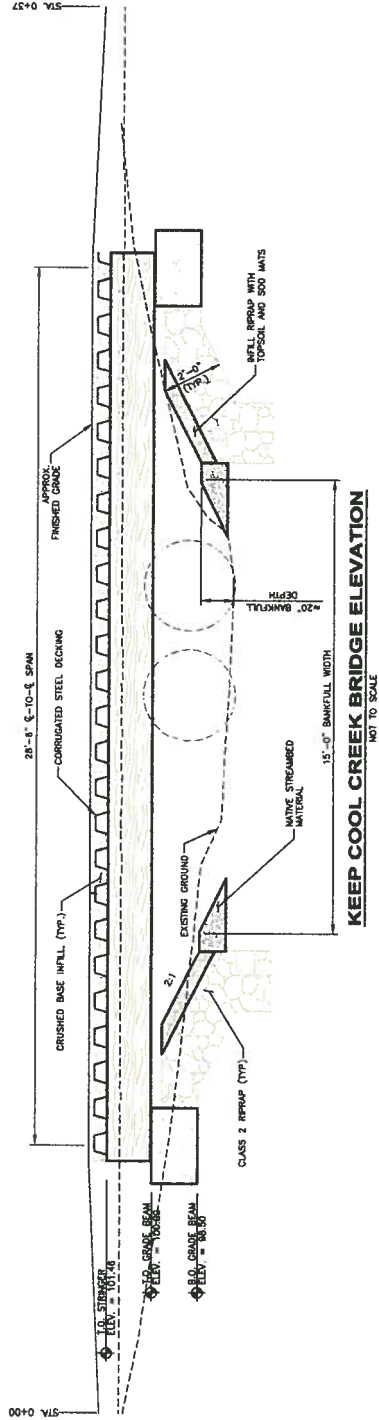
PROFILE VIEW OF KEEP COOL CREEK (LOWER SITE) - STA. 0+00 TO STA. 1+65

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'



CROSS-SECTION OF KEEP COOL CREEK (LOWER SITE) STA. 0+10 TO STA. 0+60

HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'

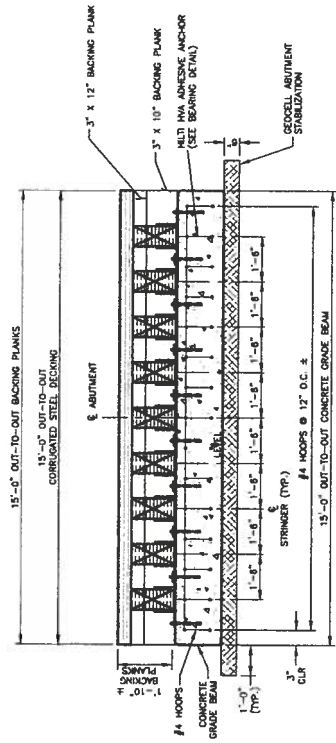


KEEP COOL CREEK BRIDGE ELEVATION

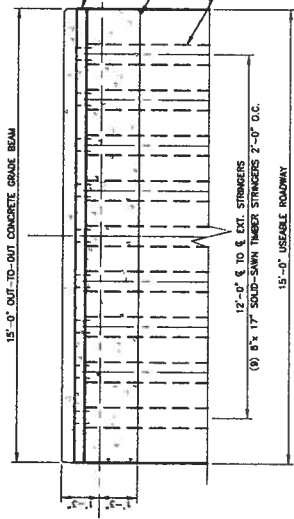
NOT TO SCALE

PROFILE AND SECTION VIEWS
BIG BLACKFOOT CHAPTER TROUT UNLIMITED
KEEP COOL CREEK (LOWER CROSSING)

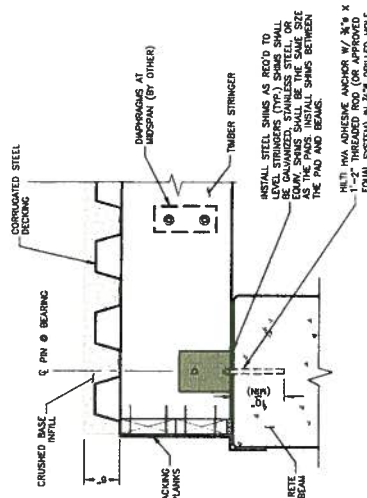




ABUTMENT ELEVATION
NOT TO SCALE



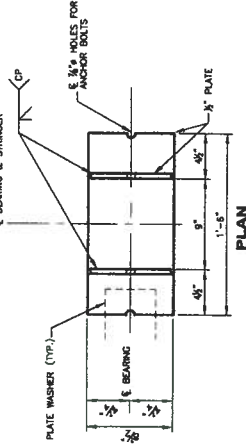
ABUTMENT PLAN
NOT TO SCALE



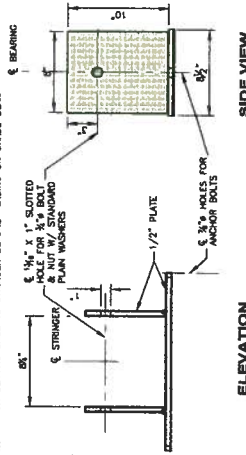
BEARING DETAIL
NOT TO SCALE

ITEM	QUANTITY	DESCRIPTION
8" X 17'-0" DECKING	9	9'-0" STRINGERS SUPPLIED BY BCTU, CONTRACTOR TO CUT TO REQUIRED LENGTH
CONCRETE GRADE BEAM	472 S.F.	(471) 12" CORRUGATIONS, 9 GAUGE
3" X 12" BACKING PLANKS	2	CONTRACTOR SUPPLIED
2" X 12" X 16" FOUNDATION	2	BCTU SUPPLIED
BEARING SHOE	18	CONTRACTOR SUPPLIED
CONNECTION HARDWARE	VARIES	CONTRACTOR SUPPLIED
CRUSHED BASE INFILL	8' DEPTH	CONTRACTOR SUPPLIED
CLASS II RIPRAP	28 CY	CONTRACTOR SUPPLIED

- NOTES:**
1. PLACE PLATE WASHER ON TOP OF CONSECUTIVE BEARING SHOES TO HOLD BEARING SHOES IN PLACE.
 2. EXTERIOR BEARING SHOES SHALL EXTEND AN ADDITIONAL 2" ALONG THE GRADE BEAM AND HAVE A COMPLETE ANCHOR BOLT HOLE TO SECURE IT IN PLACE.
 3. ATTACH BEARING SHOE TO STRINGER BEFORE PLACING ON GRADE BEAM



ELEVATION BEARING SHOE DETAIL
NOT TO SCALE



SIDE VIEW

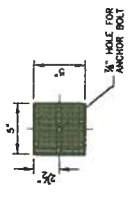


PLATE WASHER

BRIDGE DETAILS

BIG BLACKFOOT CHAPTER TROUT UNLIMITED
KEEP COOL CREEK (LOWER CROSSING)





United States Department of the Interior
FISH AND WILDLIFE SERVICE
MONTANA PARTNERS FOR FISH & WILDLIFE PROGRAM
922 BOOTLEGGER TRAIL
GREAT FALLS, MONTANA 59404-6133

IN REPLY REFER TO:

406/793.7400

May 27, 2014

Ryen Neudecker
Big Blackfoot Chapter of Trout Unlimited
P.O. Box 1
Ovando, MT 59854

Dear Mrs. Neudecker,

This letter is in reference to the Keep Cool Creek, Liverpool Creek and North Fork Blackfoot River Restoration Projects located in the Blackfoot Watershed proposed to the State of Montana Future Fisheries Program. The U.S. Fish and Wildlife Service fully support these projects because of the incredible biological values associated with them.

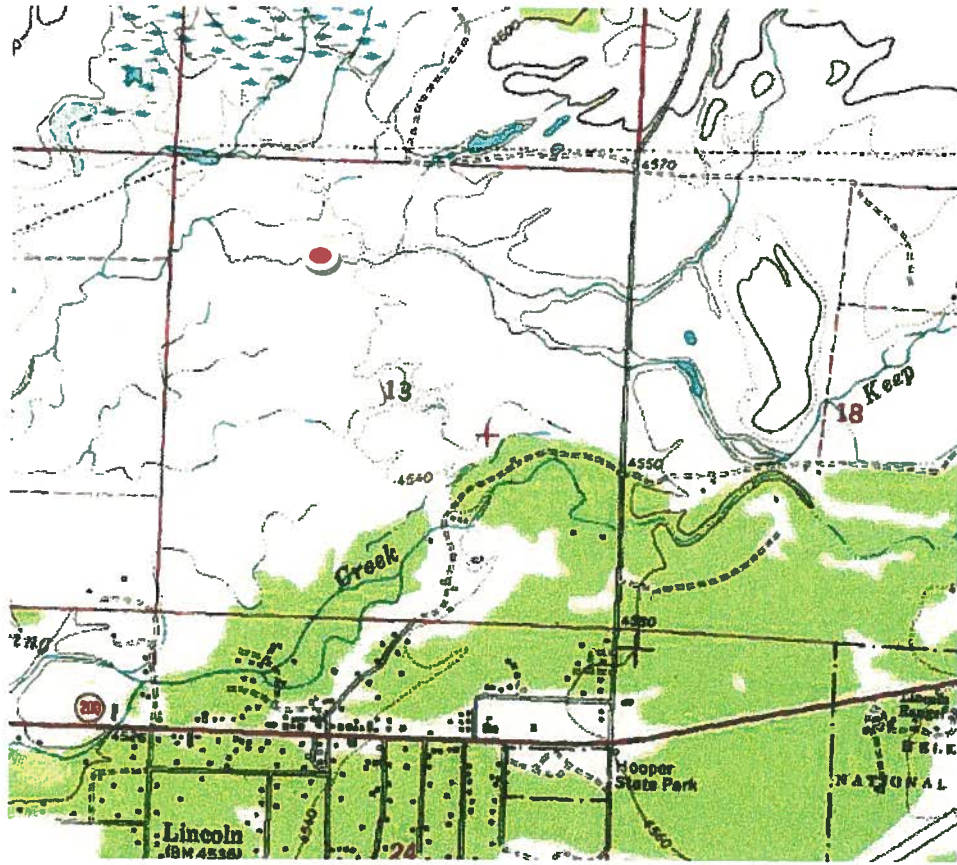
The Partners for Fish and Wildlife has a long history of working with the associated private landowners and other partners collaborating to restore the cold water fishery of the important tributaries feeding the Blackfoot River. The proposed projects on Keep Cool Creek, Liverpool Creek and North Fork Blackfoot River are exciting in that we will be able to continue our efforts of restoring native trout within the watershed by working with committed landowners.

The FWS through our Partners for Fish and Wildlife Program has set aside \$5,000 for both the Keep Cool Creek and Liverpool Creek projects and \$38,718.50 for the North Fork Blackfoot River water conservation project. We commend the efforts of the many partners for their time and efforts with these important projects.

If you have any questions regarding this project feel free to give me a call.

Sincerely,

Greg Neudecker
State Coordinator
Partners for Fish and Wildlife Service



Images 1-2: Lower stream crossing on Keep Cool Creek--Grosfield Ranch



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