

MEMORANDUM

August 09, 2019

Water Permit: 74-7396

Author: Scott Storms

Subject: Summary of Processes Before Licensing

Proof of Beneficial Use for permit 74-7396 was submitted by the Bureau of Land Management (BLM) on October 23, 2002 and a field exam was conducted by Rob Whitney on September 9, 2012. The permit was originally issued for one point of diversion (POD) sourced from Warm Springs Creek and used for recreation as cooling water for a developed hot spring site known as Sharkey Hot Springs. During the field exam, the examiner found that two PODs had been developed from surface water as sources for cooling water. Both of these PODs were in the same quarter quarter (QQ) and the examiner determined both were from Warm Springs Creek. On December 19, 2018, the Department of Water resources (Department) issued a notice to the permit holder requesting an amendment of permit, adding the second POD to the permit so that it could be licensed with both PODs. On April 18, 2019 a second notice was sent, and on May 15, 2019, Water Rights Section Manager Angie Grimm sent an email along with a scanned copy of the field examination, to Mike Whitson, Geologist with the BLM, and requested to know the status of the amendment.

On May 24, 2019, Mike responded to Angie's email and stated that the second POD referenced on the amendment was not sourced from Warm Springs Creek, but instead was a spring from the hillside above the creek. He described the system as one source from Warm Springs Creek, and the other from a spring with a collection can, located in a hillside seep above the creek and piped into the same pipe as the Warm Springs Creek source. The water is then comingled in the pipe to the hot springs mixing boxes. Mike then posed the question of whether or not the spring POD should actually be added to another of the BLM rights servicing the hot spring that already has springs listed as a source, rather than amended to permit no. 74-7369, which is a sourced from a creek. Mike suggested right 74-7394 as an option for that process.

On May 31, 2019, Angie responded that she needed to discuss options with the examiner and others in the department to determine the best option moving forward, but that she did not think that amending (filing a transfer on) right 74-7394 would be appropriate because that right is for a hot water source and the POD spring in question is cold water.

On June 3, 2019, Angie again contacted Mike via email and reported that she had spoken with Rob Whitney, the original field examiner. Rob stated that he remembered there being two PODs in the creek but that it had been a long time ago and it was hard to remember for sure. Angie also stated that Rob will contact Cindy Yenter to have her reach out to Mike and set up another field visit to confirm the location of the two PODs and determine if the second source should be an amendment to 74-7396, or if a new permit application should be submitted for the second source.

On June 13, 2019, Cindy Yenter, accompanied by Mike Whitson, re-visited the Sharkey Hot Springs site in order to confirm the location of the two PODs. Cindy submitted a review memo of her findings to Angie on July 17, 2019. In her memo, Cindy described three cold water diversions from Warm Springs Creek

related to permit 74-7396. The first was a new collection chamber buried in the channel and not visible from the surface. She stated that Mike Whitson was not sure when this new diversion was installed. The second was an old bubbler in the creek about 65 feet below the new diversion point. She stated that the old collection point was filled with sediment and non-functional and that piping from the new collection point passed by this old collection point. She explained that the old collection point was very close to the GPS location of the collection point recorded in the 2012 exam and that it looked very similar to one of the photos from the original field exam, which lead her to believe the old collection point was indeed the POD recorded during the 2012 exam. She also stated that the new collection point was located in close proximity to the old, and within the same quarter quarter (QQ), and that the new collection point should be considered the POD on the license. The third POD was a collection box at a spring referred to as Stinkbug Springs. Diversion works from the spring tied into the lines from the Warm Springs Creek diversion and the comingled water lead down to the hot spring mixing chambers. Cindy stated that GPS coordinates from the 2012 exam placed the spring diversion in or near Warm Springs Creek, but that she confirmed the diversion is indeed from a spring located about 50 feet up the hillside from the creek. Cindy also provided a map of her findings, which clearly showed the new Warm Springs Creek diversion within the same QQ as the original and showed the spring diversion up off of the creek.

After Department review of these facts, it was determined the best path forward would be to disregard the amendment of permit to add the spring POD, and move forward with licensing 74-7396 with just the one diversion, from Warm Springs Creek. It was also determined that the best way to cover the diversion from Stinkbug Springs would be for the BLM to submit a new application for permit to cover this diversion and use. On August 8, 2019, I sent an email to Mike Whitson outlining this decision and obtain his approval. He responded on August 9, 2019 and agreed with the decision and stated that he will start work on the application for permit for Stinkbug Springs.

Storms, Scott

From: Whitson, Michael <mwhitson@blm.gov>
Sent: Friday, August 9, 2019 7:17 AM
To: Storms, Scott
Subject: Re: [EXTERNAL] Next steps for Water Right 74-7396

Hi Scott-

I agree with that course of action as well. I'll get an application prepared for the Stinkbug Springs right and send it over. Please feel free to contact me if you need any further information.

Mike

**Mike Whitson, P.G.
Geologist**
USDI-BLM Salmon Field Office
1206 S. Challis St., Salmon ID 83467
mwhitson@blm.gov
Office: [208.756.5495](tel:208.756.5495)
Fax: [208.756.5447](tel:208.756.5447)

On Thu, Aug 8, 2019 at 3:54 PM Storms, Scott <Scott.Storms@idwr.idaho.gov> wrote:

Hello Mike,

Angie has asked me to finalize preparations for licensing of water right 74-7396 and to correspond with you about what the Department has determined would be the best way to move forward with the diversion from Stinkbug Springs. Angie (and others) have concurred that the best course of action is to disregard the amendment to add the springs diversion to 74-7396 and move forward with licensing that right with just the diversion from Warm Springs Creek, as the diversion is set up now. In order to cover the Stinkbug Springs diversion, the best course of action is for you (the BLM) to submit a new application for permit for recreation for that diversion. Please let me know if this sounds agreeable to you. I will continue to move forward with preparing 74-7396 for licensing and should have it wrapped up soon. Also, please feel free to reach out to me if you have any further questions.

Thank you,

Scott

Grimm, Angie

From: Yenter, Cindy
Sent: Wednesday, July 17, 2019 3:28 PM
To: Grimm, Angie; Whitney, Rob
Subject: Sharkey Hot Springs Permit 74-7396
Attachments: Sharkey HS 74-7396 pod memo.pdf; 20190717151532.pdf

Follow Up Flag: Follow up
Due By: Thursday, July 25, 2019 8:00 AM
Flag Status: Flagged

Attached is the supplemental POD info for Sharkey HS.

All photos with GIS stamps may be found at <\\\\dwrsalcf01\publicfolders\cyenter\Sharkey HS>. Also attached is the photo log. Photos in the folder are in this order.

Cindy Yenter
Idaho Dept of Water Resources
Salmon Field Office
102 S Warpath, Salmon ID 83467
cindy.yenter@idwr.idaho.gov
208-742-0655
208-731-0901 cell

Spring the POD proposed to be added. Is not
~~the~~ creek water. Should file new permit
on Stinkbug Spring POD. License this
right at a single POD @ "new/upper" location.
{original POD no longer used - new one installed
after dev. period with same @ "replacement"
ok to use GPS of current POD}

memorandum

July 17, 2019

To: 74-7396
From: Cindy Yenter
RE: Supplemental info for BU exam

I re-visited the Sharkey Hot Springs diversions on June 13, 2019 with Mike Whitson, BLM Salmon Office (ph 208-756-5495).

I was shown three locations related to the cold water diversions from Warm Spring Creek under the above permit. The first, shown in Photo 1, was described as a "new" collection point in the creek channel for cold water. A buried collection can or chamber was placed in the channel, and is not visible. Whitson was unsure exactly when the new collection had been installed.

The second location, shown in Photo 2, is an old bubbler in the creek channel, located about 65 feet below the "new" collection. The bubbler was locked and couldn't be opened but it appeared full of sediment. New black poly pipeline from the upper collection is visible bypassing the old bubbler.



The upper POD as identified on the 2012 BU exam is in the approximate vicinity of the old bubbler. A photo from the original exam labeled "Tark Cold Spr" may be the same location. This leads me to believe that the new upper collection was installed sometime after 2012. Because this collection is very close to the bubbler and in the same QQ, the upper collection should be used as the license POD.

Photo 3 is the collection box at Stinkbug Spring. This cold spring ties into the cold water lines from upper Warm Spring Creek. This spring was also identified in the 2012 exam, but the GIS coordinates placed the location near or in the Warm Spring Creek channel. The spring is in fact located on the hillside approximately 50 feet above the channel.



Other photos included with the 2012 exam incorrectly identified lower spring diversions tributary to Warm Spring Creek as cold sources. My additional GIS coordinates and photos correlate with decreed pods for 74-7394 (upper and lower hot springs) and 74-2276/15514/12394 (Sharkey Hot Springs complex). Hot/cold mixing chamber and ground water pod locations were not confirmed.

6-13-19 Sharky Mike Whitson

Photo 1 - Creek div

Photo 2 - old bubbler - new pipe runs past -

New POD above

Photo 3 - Striking Springs

Photo 4-5 - "lower hot"? Sharky camp

Photo 6 - "lower cold"? No, it's warm 7394
upper ~~lower~~?

Photo 7 - 7394 lower

Photo 8-9 7394 ^{collection} ~~box~~ box (opposite bank) and
overflow

mix cold/hot & GW locations OK

Challis Hanna Brands - water rights

Anna Summer - realty (Joie)

Grimm, Angie

From: Grimm, Angie
Sent: Monday, June 03, 2019 10:16 AM
To: 'Whitson, Michael'
Cc: Whitney, Rob
Subject: RE: [EXTERNAL] Field Exam for permit no. 74-7396

Mike,

Good morning, again! I just spoke with the examiner, Rob Whitney, who conducted the beneficial use field exam back in 2012. He recalls there being two diversions in the creek, but at this point, it has been too long ago to be sure. He will ask Cindy Yenter, of IDWR's Salmon Office, to reach out to you to set up a time to re-investigate the points of diversion so we can have more assurance regarding which diversions should go on 74-7396 and which ones should perhaps go on another right or a new permit application. I will continue waiting to license permit 74-7396 until this investigation is concluded.

On another note, IDWR was waiting to license permit 74-15989, which is the permit for the cold water well. The plan was to issue both licenses once the amendment for permit 74-7396 was received. I see no reason to continue waiting to license 74-15989. I will pursue finalizing that license as soon as possible.

I appreciate your desire to make sure the water right records accurately reflect the systems in place. I hope we will be able to license 74-7396 in a reasonable timeframe once the points of diversion are confirmed by another site visit. Please let me know if you have any additional questions in the meantime.

Regards,
Angie

Angela M. Grimm, P.G.
Water Rights Section Manager
IDWR - State Office
322 E Front St Ste 648
Boise, ID 83702-7371
(208) 287-4951 phone
(208) 287-6700 fax

From: Grimm, Angie
Sent: Monday, June 03, 2019 7:53 AM
To: 'Whitson, Michael' <mwhitson@blm.gov>
Subject: RE: [EXTERNAL] Field Exam for permit no. 74-7396

Mike,

Good morning! The beneficial use exam mentioned the springs for 74-7394 are "hot water". The documents associated with water rights can be found via the Water Right Research tool here: <https://idwr.idaho.gov/apps/ExtSearch/WRAJSearch/WRADJSearch.aspx>. If you choose the second criteria 'Adjudication, Water Right & Basin or Transfer' button, select the Claim/Water Right/Basin box, enter the Basin # 74 and sequence # 7394, hit Save Search Parameter, then hit Start Search the record will appear at the bottom. If you hit More Options then documents, it will show you all the scanned documents for this water right. The Beneficial Use Field Report document is where I found an indication that the springs source for 74-7394 are hot. Hope this helps. Please let me know if you have any trouble finding the documents online. I hope to have an answer for you on your other question by the end of this week...

Thanks,
Angie

Angela M. Grimm, P.G.
Water Rights Section Manager
IDWR - State Office
322 E Front St Ste 648
Boise, ID 83702-7371
(208) 287-4951 phone
(208) 287-6700 fax

From: Whitson, Michael [<mailto:mwhitson@blm.gov>]
Sent: Friday, May 31, 2019 9:41 AM
To: Grimm, Angie <Angie.Grimm@idwr.idaho.gov>
Subject: Re: [EXTERNAL] Field Exam for permit no. 74-7396

Ok, thanks for touching base. I suggested 7394 as it was the right that was for springs but not specifically Sharkey Hot Spring, so I made the assumption it was a cold water source. There is one of those midway down, and I thought that this was it. Is there some way you can tell from the WR info that this is a hot spring vs. cold? I was uncertain, but that was my logic...

We'll get it figured out, and I appreciate your help here.

MDW

Mike Whitson, P.G.
Geologist
USDI-BLM Salmon Field Office
1206 S. Challis St., Salmon ID 83467
mwhitson@blm.gov
Office: [208.756.5495](tel:208.756.5495)
Fax: [208.756.5447](tel:208.756.5447)

On Fri, May 31, 2019 at 8:52 AM Grimm, Angie <Angie.Grimm@idwr.idaho.gov> wrote:

Mike,

Good morning! I wanted to send you a quick email to let you know I'm working on a response to your last email. I need to talk with the examiner and potentially my supervisor to get proper direction on the best option here. However, I can say, I do not think amending right 74-7394 would be a proper course of action simply because that right diverts hot water and the spring in question is cold. I will talk with a few folks here and get back to you by the end of next week. I appreciate the additional information you provided and your responsiveness. More to come...

Regards,

Angie

Angela M. Grimm, P.G.

Water Rights Section Manager

IDWR - State Office

322 E Front St Ste 648

Boise, ID 83702-7371

(208) 287-4951 phone

(208) 287-6700 fax

From: Whitson, Michael [mailto:mwhitson@blm.gov]

Sent: Friday, May 24, 2019 2:23 PM

To: Grimm, Angie <Angie.Grimm@idwr.idaho.gov>

Subject: Re: [EXTERNAL] Field Exam for permit no. 74-7396

Hi Angie-

Just wanted to touch base with you regarding this permit before I send in the amendment. I have confirmed the locations of the two PODs as described during the examination, but the source for one of the PODs isn't Warm Springs Creek. There are two PODs that source cold water and are comingled in a pipe to the hot springs mixing boxes. Both are spring cans that have been buried for collection of water. One is located in the bottom of an intermittent reach of Warm Springs Creek which is clearly a diversion of Warm Springs Creek. The other is a spring can that is located on the hillslope above the creek that is capturing a small hillside seep and then routing it with the Warm Springs water to the mixing box.

Would the Department prefer that we add this as another POD to 74-7396? Perhaps we should add it as another POD for one of the water rights we have for the recreation site that have a source listed as "springs" since this particular POD is clearly not capturing surface water but rather a spring source (I think 74-7394 would be the best option) Maybe it's not critical, and I'm not trying to split hairs here, but since we clearly need to make an amendment I want to make sure we do it the right way.

I've attached a map showing the POD locations for your reference. Please feel free to give me a call if you'd like.

Thanks,

Mike

Mike Whitson, P.G.

Geologist

USDI-BLM Salmon Field Office

1206 S. Challis St., Salmon ID 83467

mwhitson@blm.gov

Office: [208.756.5495](tel:208.756.5495)

Fax: [208.756.5447](tel:208.756.5447)

On Wed, May 15, 2019 at 1:56 PM Grimm, Angie <Angie.Grimm@idwr.idaho.gov> wrote:

Mike,

Good afternoon! Attached is a scanned copy of the field examination conducted for Warm Spring Creek permit no. 74-7396. The field examiner recognized two points of diversion from Warm Spring Creek during the field examination with Bob Berasi (BLM Project Manager). The licensing amendment would add the second point of diversion. Hopefully the field examination helps with your verification process. Please let me know if I can provide any additional information. IDWR will wait an additional 14 days (until June 1) to receive a licensing amendment before moving forward with licensing of this permit and permit no. 74-15989 (ground water well permit).

Regards,

Angie

Angela M. Grimm, P.G.

Water Rights Section Manager

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State of Idaho

DEPARTMENT OF WATER RESOURCES

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BRAD LITTLE
Governor

GARY SPACKMAN
Director

April 18, 2019

FINAL
REQUEST

US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
11206 S CHALLIS ST
SALMON ID 83467

RE: Water Appropriation Permit 74-7396

LICENSING AMENDMENT

Dear Permit Holder:

In 2001, the Idaho Department of Water Resources (Department) issued permit 74-7396 authorizing you to develop a right to divert 0.04 cfs of water from Warm Springs Creek, a tributary of Lemhi River, for recreation use within Gov't Lot 1 (NENE) of Section 4, Township 19 North, Range 24 East, B.M. On October 16, 2002, the Department received your Proof of Beneficial Use statement indicating you had completed your development and put the water to beneficial use. On September 12, 2012, a Department field examiner reported that you were actually using two (2) points of diversion from Warm Springs Creek, rather than the single point of diversion permitted. An Application for Amendment for Licensing purposes (Amendment) is required to add the second point of diversion to the water right license.

An Amendment form was sent to you on December 19, 2018 to add the second point of diversion. On February 5, 2019, an email was sent to Fred Price, at BLM requesting the status of the Amendment. As of the date of this letter, the Department has not received the Amendment.

The final step in the water appropriation process is the issuance of a water right license. By issuing a license, the Department recognizes that you have met the requirements for establishing a water right.

If the Department does not receive the requested Amendment from you within thirty (30) days, the Department will proceed with licensing permit 74-7396 with one point of diversion. If you continue use of two (2) points of diversion, you will need to file an Application for Transfer of a Water Right (Transfer) to add the second point of diversion to the license. Without the Amendment or a Transfer, the second point of diversion is not authorized for use and the Department may initiate an enforcement action. If you have any questions, please contact me at 208-287-4951.

Respectfully,

Angela M. Grimm, P.G.
Water Rights Section Manager

Enclosure

cc: Fred Price, BLM office-Boise

Hersley, Jean

From: Hersley, Jean
Sent: Tuesday, February 05, 2019 7:36 AM
To: 'FWPRICE@BLM.GOV'
Subject: Licensing Amendments for 74-7396

Fred,

A licensing amendment for 74-7396 was sent to you in December, 2018. The amendment added a second point of diversion to the water right. The Department needs to have this amendment signed and returned before we can issue a license. What is the status of the amendment?

*Jean Hersley
Idaho Dept Water Resources
Technical Records Specialist II
208-287-4942*



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

December 19, 2018

US DEPT OF INTERIOR
BUREAU OF LAND MANAGEMENT
1206 S CHALLIS ST
SALMON ID 83467

RE: Water Right Permit No. 74-07396

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit(s) referenced above prior to issuing water right license(s). By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit.

The examiner who verified your water use reported that certain elements of the permit(s) have been developed differently than described on your permit(s). Changes that do not increase the authorized use of water under the permit(s) can be requested and approved in accordance with Section 42-211, Idaho Code. Before license(s) can be issued, your permit(s) must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit(s):

 X Point(s) of Diversion

The permit listed one point of diversion. The license will be issued with two points of diversion.

The enclosed Application for Amendment form(s) depicts the elements of the water right(s) as they will appear on the license(s) when issued. Please review the amendment form(s) carefully. If you concur with the information presented, please sign and return the form(s) with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208) 287-4942.

Sincerely,

Jean Hersley
Technical Records Specialist II

Enclosure(s): Application for Amendment

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 74-7396

Exam Date: 9/12/2012

1. Current Owner: USDI BLM
IDAHO STATE OFFICE
1387 S VINNELL WAY
BOISE ID 83709-1657
(208) 373-3831
2. Accompanied by: Bob Berasi
Phone No:
Address: Salmon
Relationship to Permit Holder: BLM Recreation Site Manager

3. SOURCE

Warm Spring Creek

TRIBUTARY

Lemhi River

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 74-07394, 74-2276 & 74-15989
2. Other water rights with the same point of diversion: N/A

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

Warm Spring Creek SESW Sec. 34, Twp 20N, Rge 24E, B.M. LEMHI County
Warm Spring Creek SESW Sec. 34, Twp 20N, Rge 24E, B.M. LEMHI County

Method of Determination: GPS on-site

2.

PLACE OF USE: RECREATION

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
19N	24E	4	X																
			L 1																

Method of Determination: GPS on-site

3. ☒ Delivery System Diagram Attached. Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use. Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

Well or Diversion

ID No.*

Motor Make

Hp

Motor Serial No.

Pump Make

Pump Serial No. or Discharge

Size

Warm Spring Creek Diversion Gravity Flow 1 1/4" HDPE pipe

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. N/A

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Manning's Equation Calculator for Flow Rate in a Circular Conduit Flowing Full

S = 0.0675 ft/ft
n = 0.009 manning's coefficient
d = 1.3 pipe diameter (inches)
D = 0.11 pipe diameter (feet)
r = 0.06 pipe radius (feet)
A = 0.01 area (ft²)
WP = 0.35 wetted perimeter (ft)
R = 0.03 hydraulic radius (ft)

Q = 0.04 flow rate (CFS)

Channel Slope ☐ Slope Options
☐ Manual Entry ☒ Slope Calculator

Slope Calculator
Rise = 200 feet
Run = 2985 feet
Slope, S = 0.0675 ft/ft

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

Volume for this permit is equal to the amount measures for permit 74-15989.

Measure cold water diversion from well (see 74-15989 for details)=12.7 gpm

12.7 gpm x 60 x 24 x 365 = 20.5 afa

G. NARRATIVE/REMARKS/COMMENTS

Hot water diverted under water right 74-7394 is cooled by blending cold water from a well (this water right 74-15989) or cold water from Warm Spring Creek (74-7396). Water from Warm Spring Creek is a "back-up" source for the cold water well. The well is more reliable for cooling than the Warm Springs Creek according to BLM.

Field exam conducted on September 12, 2012. I was accompanied by Bob Berasi of the BLM (Project Maintenance). The hot spring developments (PU's) consist of two 1200 gallon concrete pools. Hot spring collection boxes identified by BLM have some features visible features at grade. The original cold water source used for cooling/blending with hot springs is a flow-thru gravity system sourced from Warm Spring Creek. HDPE pipe (reported by BLM to be 1 1/4" dia) from the Warm Spring Creek diversion's is buried and connected to the noted blending box to cool water from the hot springs (155 degrees F). The primary source used for cooling is the well identified by this permit (see attached email string). This well is piped into a "pumphouse" that contains an inline flow meter that totalizes volume diverted from the well. Water from the well is then piped to the blending box through 1 1/4" HDPE pipe. Pool dimensions are appx. W 7 ft x L 13 ft x H 2.5 ft indicating a capacity no more than 1706 gal. Because the pools include round corners, submerged steps and wrap around submerged

bench, the volume reported by BLM of 1200 gallons/pool appears to be a realistic capacity. Outflow from the pools return to Warm Spring Creek through an overflow pipe. Pools are stated to be maintained at 104 degrees F. The pools are drained sanitized and refilled weekly.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

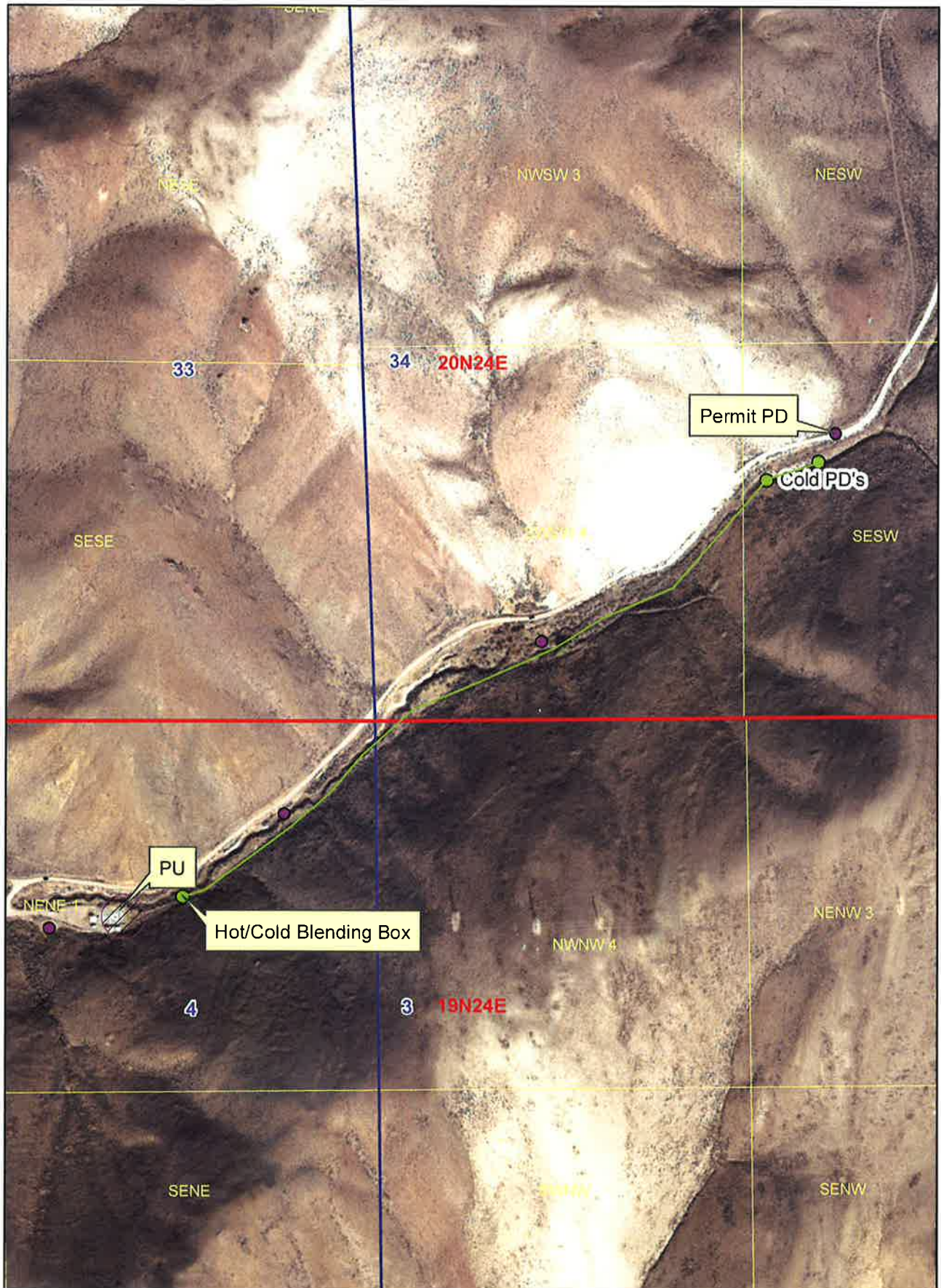
<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
RECREATION	01/01 to 12/31	0.040 CFS	20.5 AFA
<u>Totals:</u>		0.040 CFS	20.5 AFA

2. Recommended Amendments

☐ Change P.D. as reflected above ☒ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name  Date 12-18-18
Reviewer _____ Date _____





**U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SHARKEY HOT SPRINGS MIXING SYSTEM

INDEX OF DRAWINGS

GENERAL

- G-101 COVER SHEET
- C-201 PLAN AND PROFILE SHEET
- C-202 PLAN AND PROFILE SHEET
- C-501 DETAIL SHEET
- C-502 DETAIL SHEET
- C-503 DETAIL SHEET
- C-504 DETAIL SHEET
- C-505 DETAIL SHEET
- C-506 DETAIL SHEET

ELECTRICAL

- E001 - ELECTRICAL LEGENDS
- E002 - ELECTRICAL SITE PLAN
- E003 - ELECTRICAL SPECIFICATIONS



ID-101

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COVER SHEET

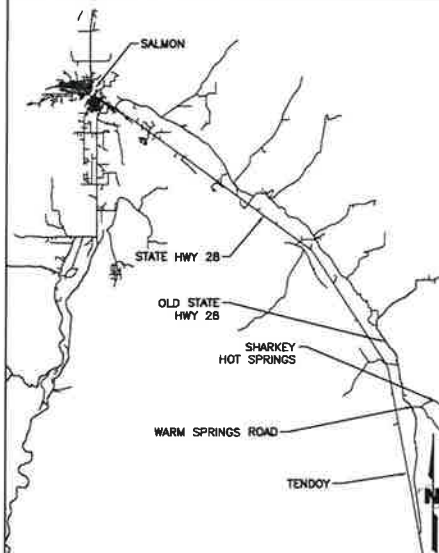
SHARKEY HOT SPRINGS MIXING SYSTEM

ID-101 FALLS DISTRICT OFFICE

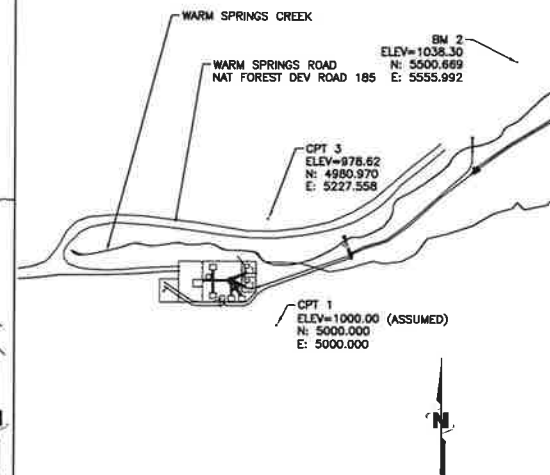
PROJECT LOCATION



PROJECT VICINITY



SHARKEY HOT SPRINGS SITE PLAN



DESIGNERS



ARCHITECTS ENGINEERS



PROJECT NO. 10-11-010

DESIGN OFFICE: JUB

DESIGNED BY: JUB

DRAWN BY: JUB

CHECKED BY: JUB

APPROVED BY: JUB

DATE: 5/28/2011

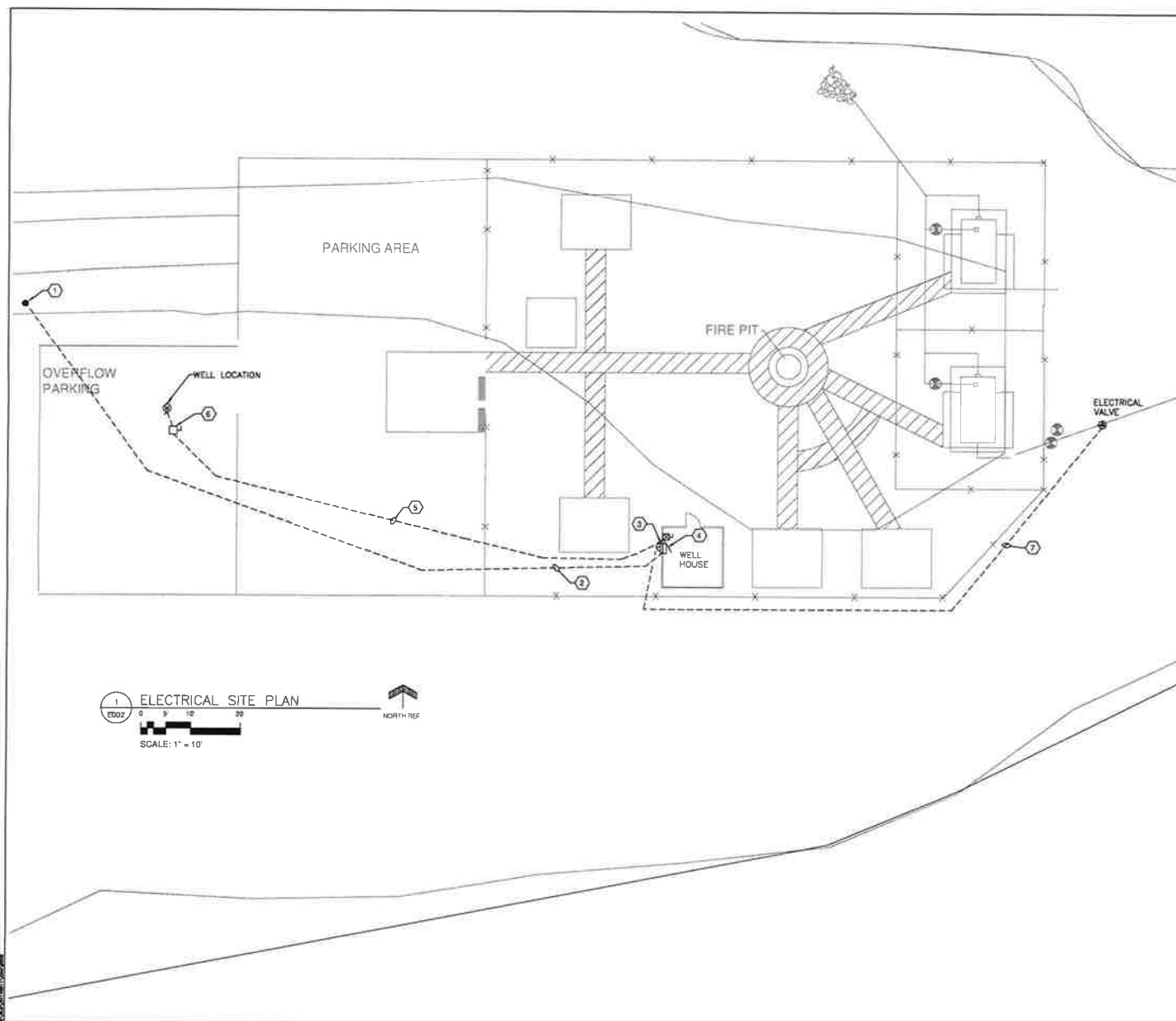
SHEET

1

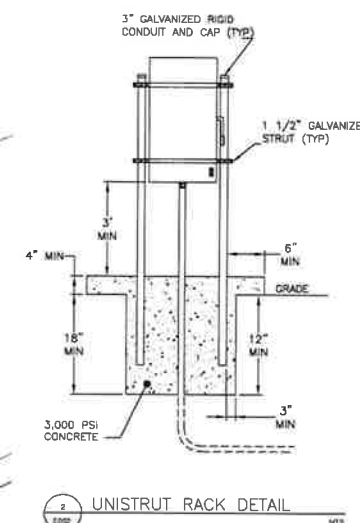
OF

12

G-101



- SHEET WORK NOTES**
- 1 LOCATION OF IDAHO POWER POLE. VERIFY EXACT LOCATION.
 - 2 PROVIDE 2" C. PVC WITH 3#4/0 & 1 #4 GND.
 - 3 PROVIDE 200 AMP 1-PHASE UNDERGROUND METER SOCKET AT THIS LOCATION.
 - 4 PROVIDE 200 AMP MAIN CIRCUIT BREAKER (MCB) 24 CIRCUIT NEMA '1' PANEL AT THIS LOCATION.
 - 5 PROVIDE 3/4" C. PVC TO WELL HEAD, PROVIDE 2#10 & 1 #10 GND.
 - 6 PROVIDE NEMA '3R' 2-POLE, 30 AMP NF HEAVY DUTY DISCONNECT. PROVIDE UNISTRUT RACK TO MOUNT DISCONNECT.
 - 7 COORDINATE LOCATION OF ELECTRICAL WITH WATER LINE. SEE CIVIL SHEET C-201 FOR LOCATION OF WATER LINE. PROVIDE 3/4" C W 2#10, #10G



PROFESSIONAL ENGINEER
GARY GLASSING
DATED: 5/24/2011
ORIGINAL STORED AT
BUREAU OF LAND MANAGEMENT
1367 S. VINNELL HWY BOISE IDAHO
GARY GLASSING

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ELECTRICAL SITE PLAN
SHARKEY HOT SPRINGS MIXING SYSTEM

IDAHO FALLS DISTRICT OFFICE

PROJECT NO: BLM00142011
DESIGN OFFICE: CTA
DESIGNED BY: GJ
DRAWN BY: GJ
CHECKED BY: GJ
APPROVED BY: GJ
DATE: 5-23-2011

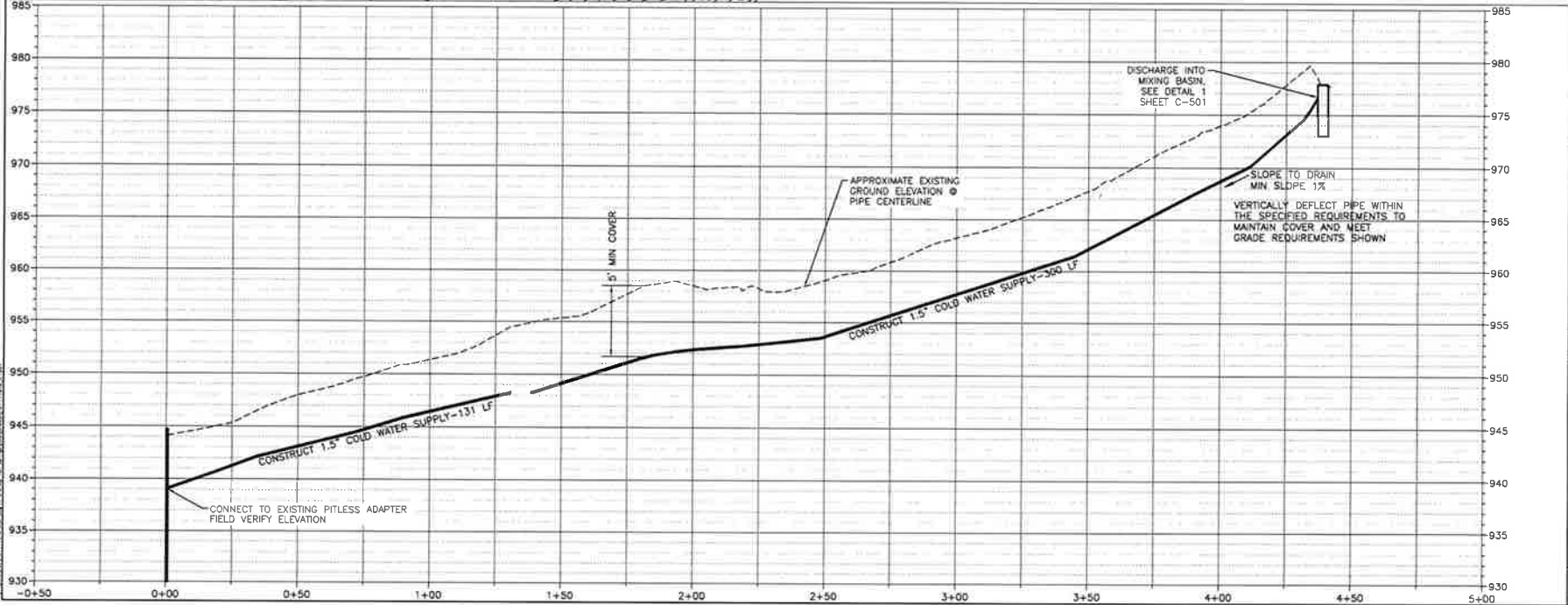
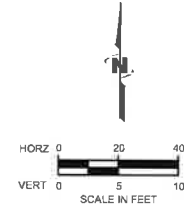
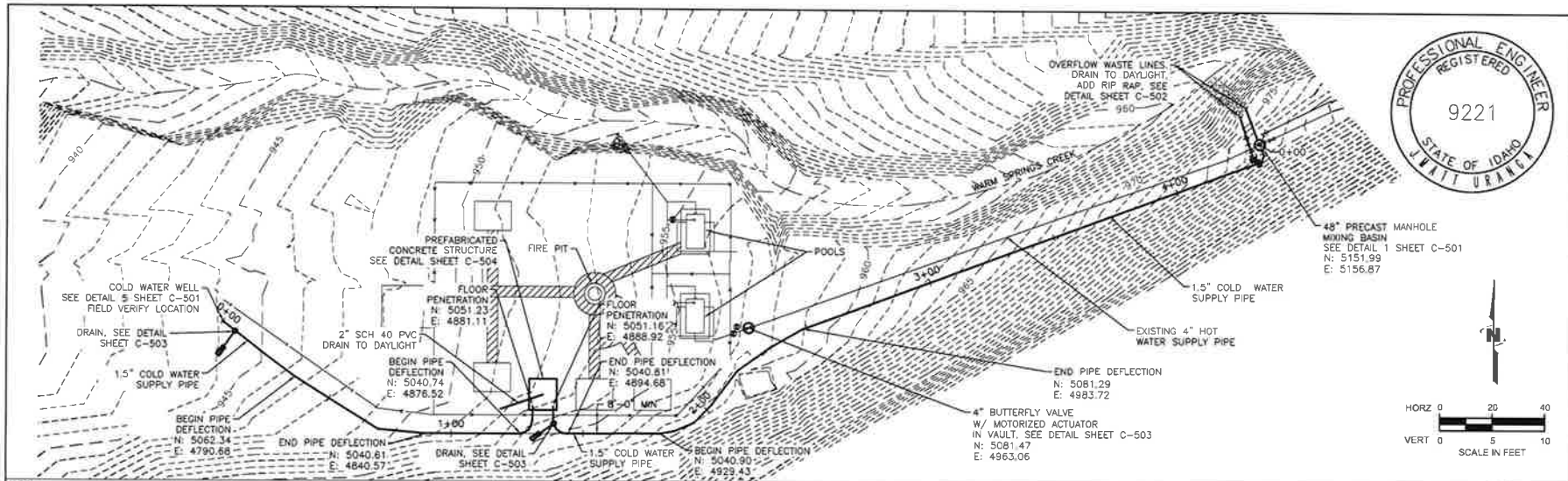
DATE APPROVED DATE APPROVED DATE APPROVED

DESCRIPTION

MARK

E002

SHEET 11 OF 12



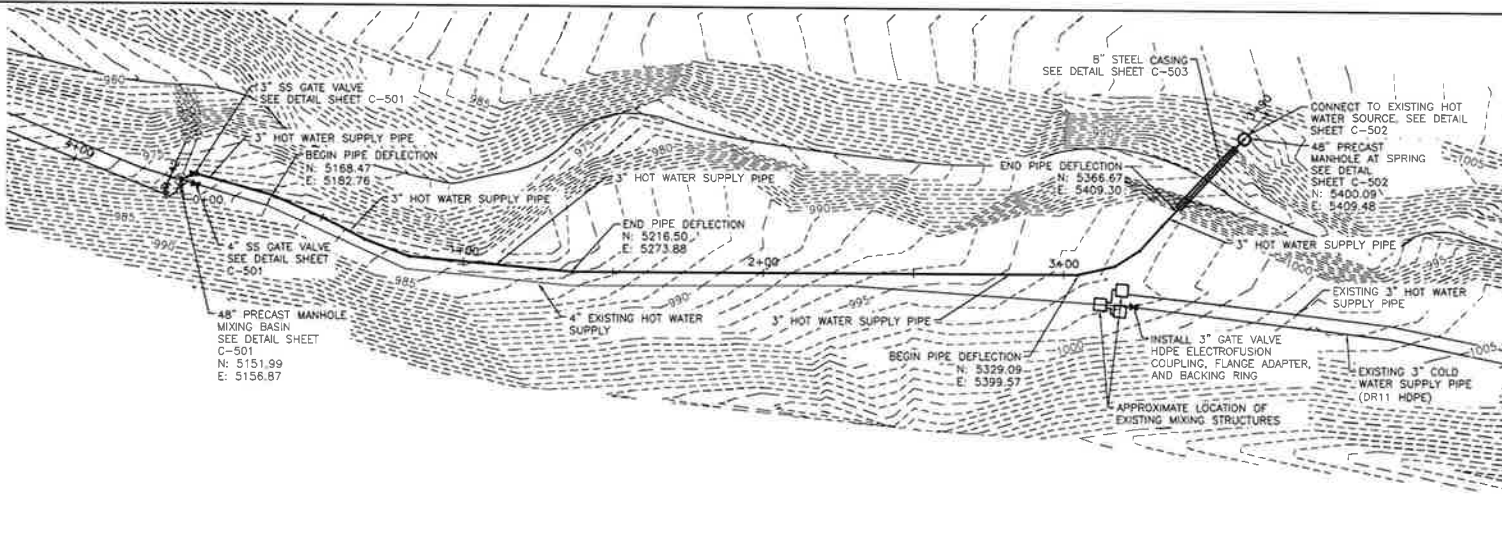
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

PLAN AND PROFILE SHEET

SHARKEY HOT SPRINGS MIXING SYSTEM

PROJECT NO.	DESIGN OFFICE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DATE
10-11-010	JAB BODGE	KYN	ARB	JAU	JAU	5/26/2011
SHEET	2	OF	12			

C-201

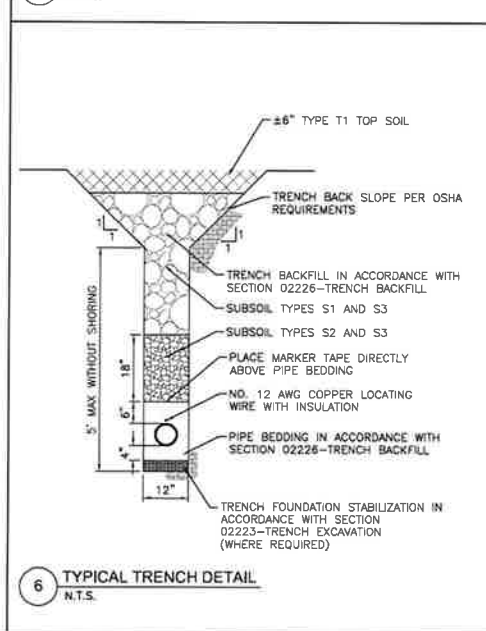
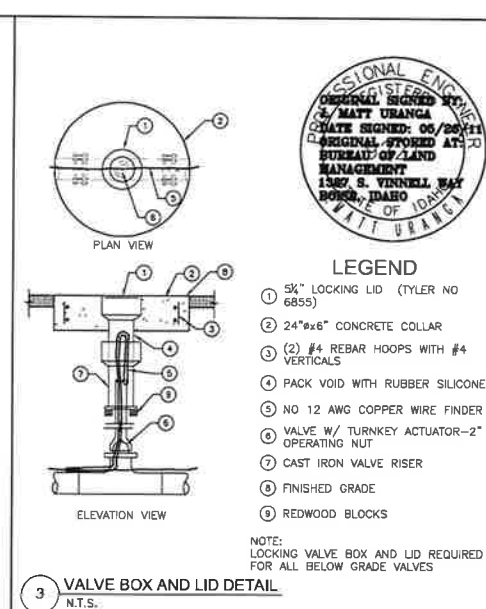
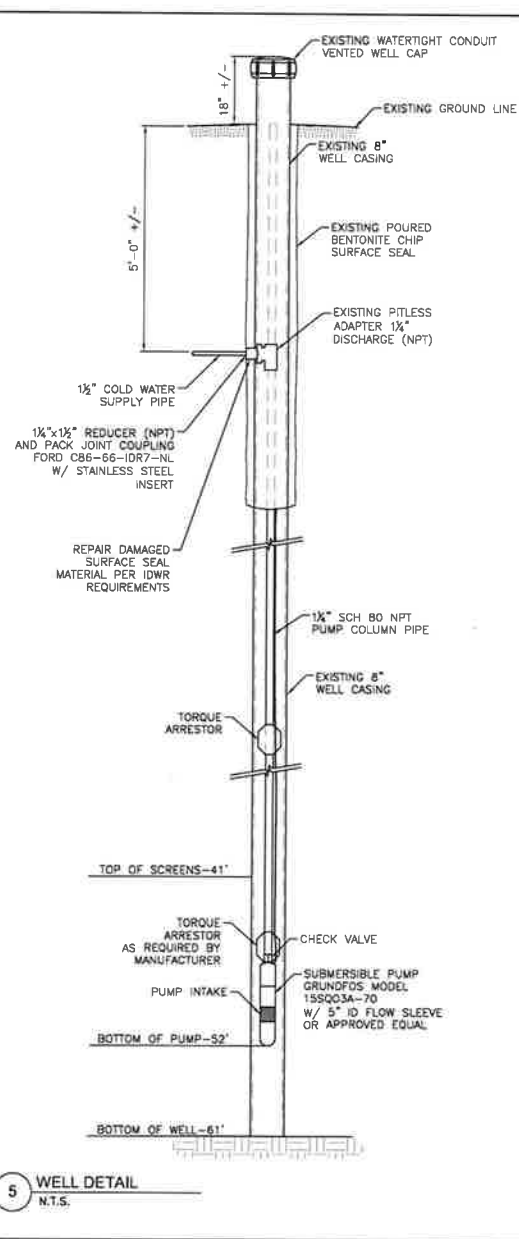
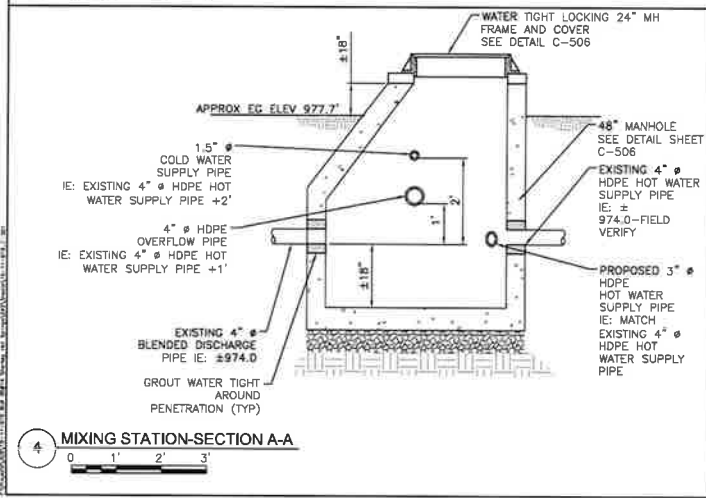
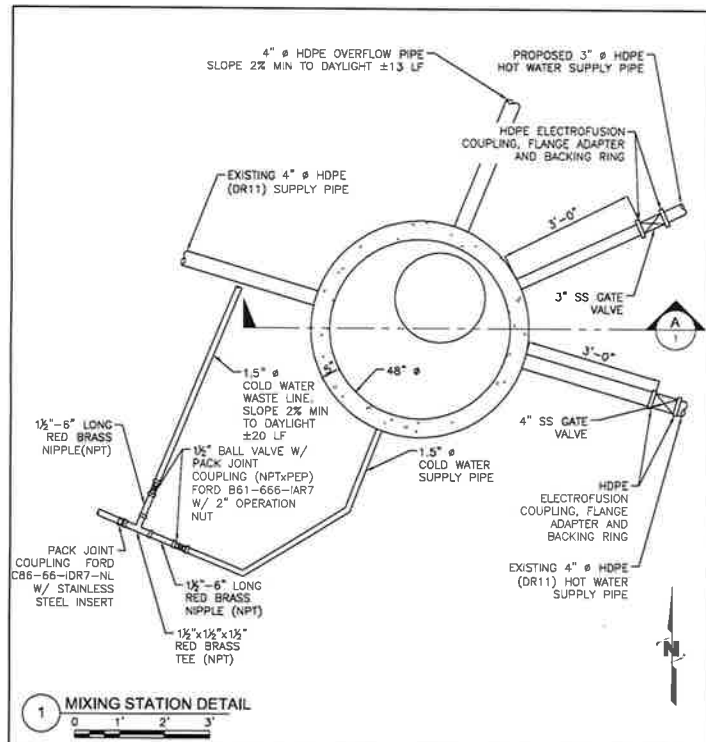


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PLAN AND PROFILE SHEET
SHARKEY HOT SPRINGS MIXING SYSTEM

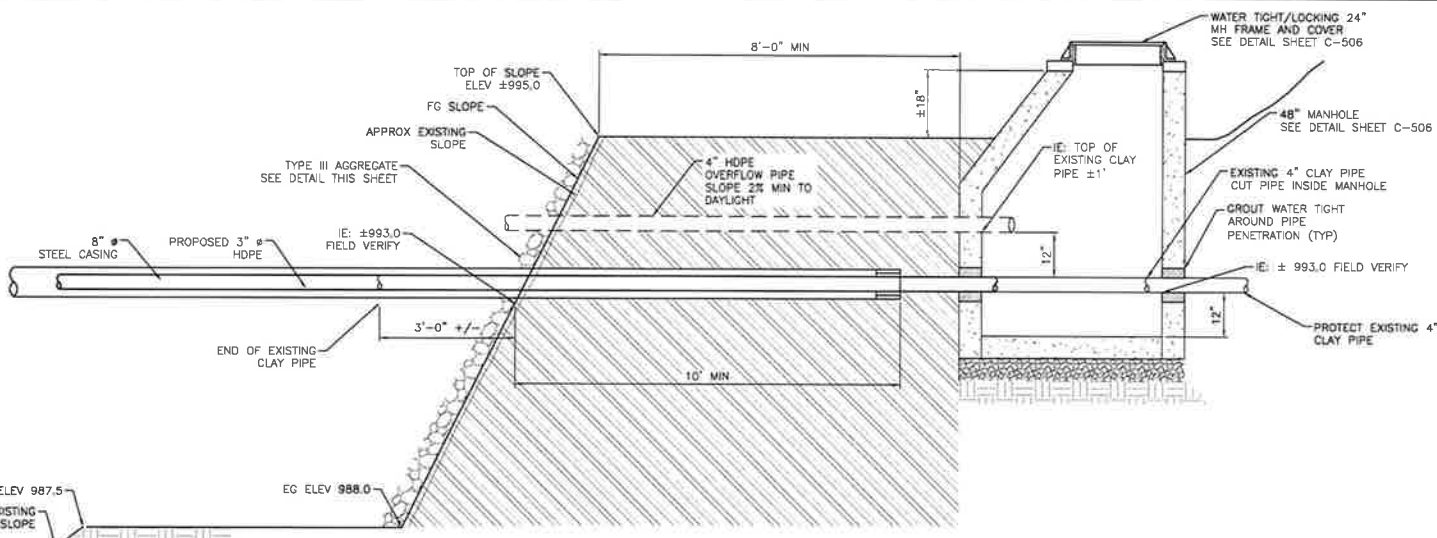
IDAHO FALLS DISTRICT OFFICE

PROJECT NO.	DATE	APPROVED	DATE	APPROVED	DATE	APPROVED
10-11-010						
DESIGN OFFICE: ABE BASE						
DRAWN BY: KEN						
CHECKED BY: ABE						
APPROVED BY: JAU						
DATE: 5/26/2011						

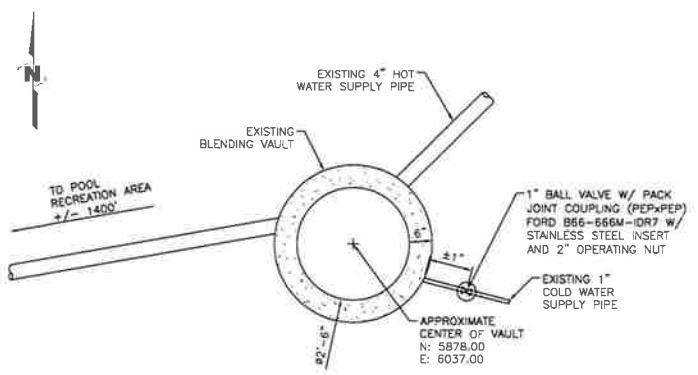
C-202
SHEET 3 OF 12



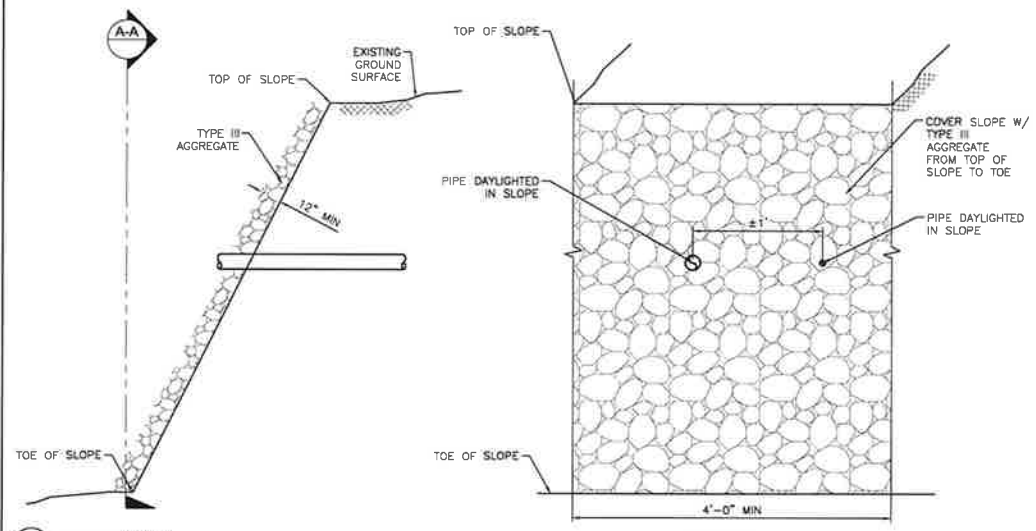
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT IDAHO	
DETAIL SHEET SHARKEY HOT SPRINGS MIXING SYSTEM	
PROJECT NO. 18-11-010 DESIGN OFFICE: AUB BOSE DESIGNED BY: KVN DRAWN BY: AUB CHECKED BY: JAU APPROVED BY: JAU DATE: 3/26/2011	DATE DESCRIPTION MARK
C-501 SHEET 4 OF 12	



1 HOT WATER SOURCE CONNECTION DETAIL
N.T.S.



4 MANHOLE PLAN
0 1' 2' 3'

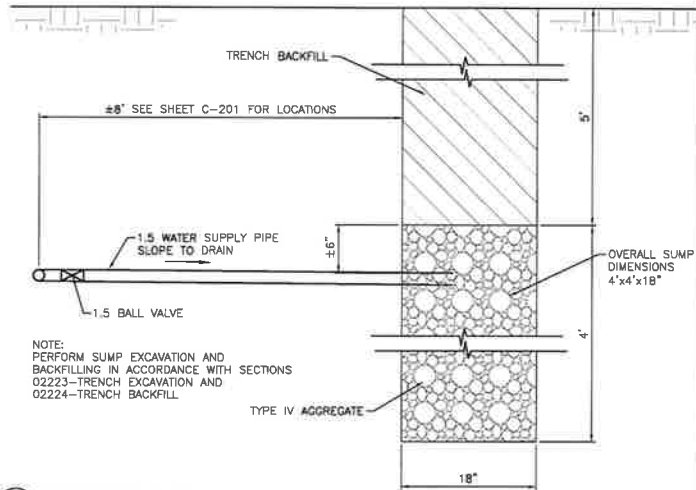


5 RIP/RAP DETAIL
N.T.S.

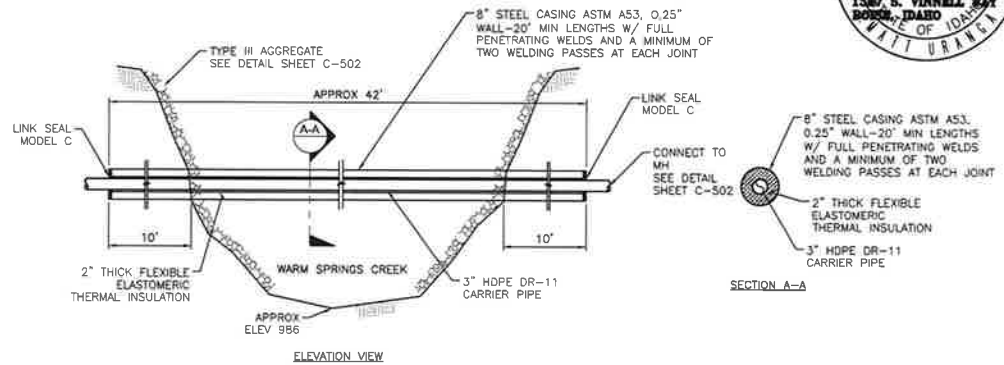


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DETAIL SHEET
SHARKEY HOT SPRINGS MIXING SYSTEM

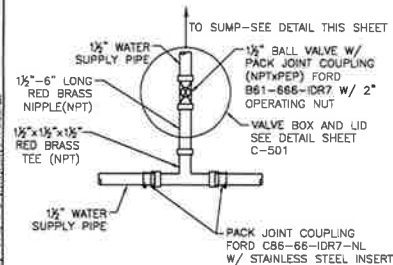
PROJECT NO. 18-11-010	DESIGN OFFICE: JAB DOGE	DESIGNED BY: KTN	CHECKED BY: JAB	APPROVED BY: JAB	DATE: 5/28/2011
SHEET 5 OF 12	C-502				



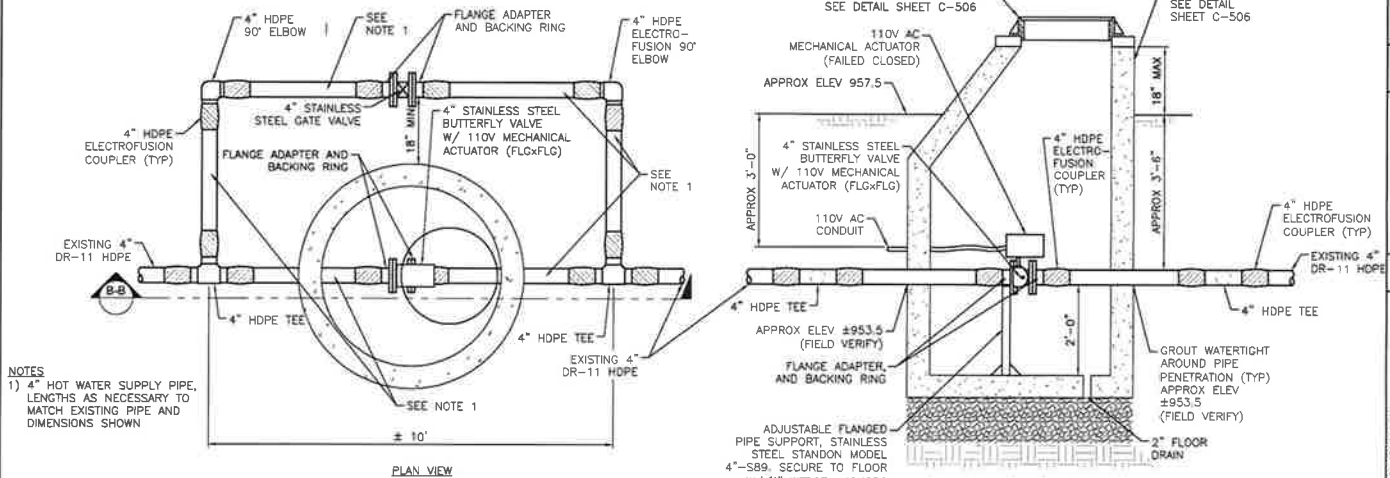
1 DRAIN SUMP DETAIL
N.T.S.



5 8\"/>



2 DRAIN DETAIL
N.T.S.



4 MECHANICAL ACTUATED BUTTERFLY VALVE VAULT DETAIL



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DETAIL SHEET

SHARKEY HOT SPRINGS MIXING SYSTEM

APPROVED: DATE: TOLERANCE: MARK: IDAHO FALLS DISTRICT OFFICE

PROJECT NO: 10-11-010

DESIGN OFFICE: ARI BOSE

DESIGNED BY: KEN

DRAWN BY: ARI

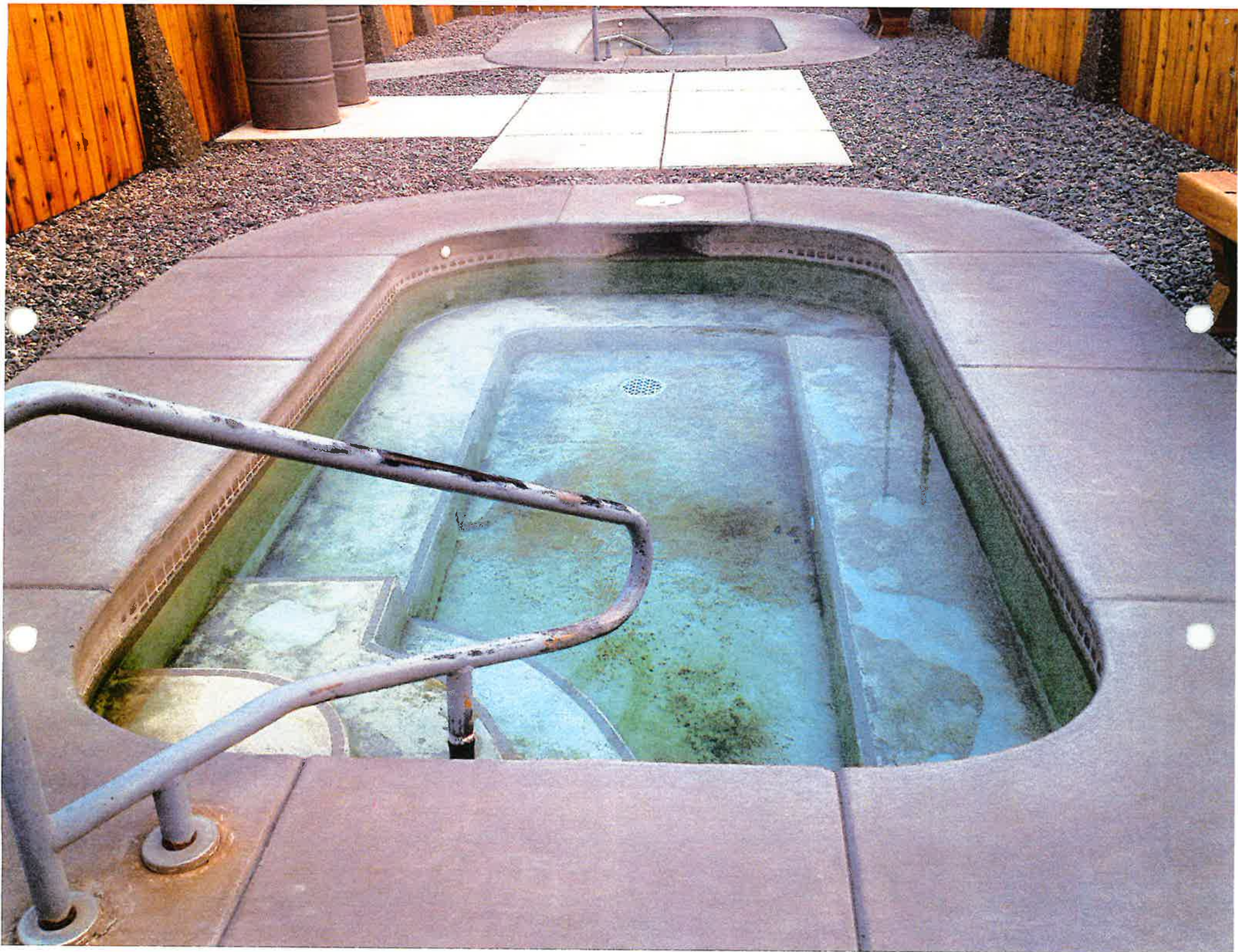
CHECKED BY: JMU

APPROVED BY: JMU

DATE: 5/26/2011

C-503
SHEET 6 OF 12







Whitney, Rob

From: Price, Fredric [fwprice@blm.gov]
Sent: Wednesday, June 05, 2013 4:17 PM
To: Whitney, Rob
Subject: Fwd: Permit 74-15989

Rob,

Below is an email string concerning the cold creek permit for mixing at Sharkey Hot Springs.

Fred

----- Forwarded message -----

From: Price, Fredric <fwprice@blm.gov>
Date: Fri, May 31, 2013 at 12:24 PM
Subject: Fwd: Permit 74-15989
To: kerrie.mathews@idwr.idaho.gov
Cc: Brandon Anderson <banderson@blm.gov>

Kerrie,

It appears that our Field Office has plumbed both water sources such that the well (74-15989) is the primary source of water and the cold water creek (74-07396) is a backup source should something happen to the well. The desire to keep the creek permit (74-07396) is not based on water supply but more on safety. Conditions concerning combined use would certainly be warranted if IDWR accepts this rationale.

Fred

----- Forwarded message -----

From: Feldhausen, Anthony <afeldhausen@blm.gov>
Date: Fri, May 31, 2013 at 11:40 AM
Subject: Re: Permit 74-15989
To: "Price, Fredric" <fwprice@blm.gov>
Cc: Brandon Anderson <banderson@blm.gov>, Robert Berasi <rberasi@blm.gov>, Elizabeth Townley <etownley@blm.gov>

Fred,

The cold water from the creek (74-07396) is still connected to the system, but is currently flowing from the pipe into the stream, and is separated from the other flows. All that is required to "connect" it is to turn the valve that would allow it to go to the mixing box. The cold water well (74-15989) is our primary cold source now since it provides us much more flow and consistent flow (and no surface water which reduces algae, etc). If the well fails, a relay shuts off the hot water to the pools as well. While we hope to not use the surface flow (74-07396), we do want to maintain the water right as it provides us a backup source should something happen with the well.

Hope this helps. Let me know if you have any further questions.

A. Scott Feldhausen

Supervisory Natural Resource Specialist
BLM - Salmon Field Office
208.756.5478

On Wed, May 29, 2013 at 3:30 PM, Price, Fredric <fwprice@blm.gov> wrote:

----- Forwarded message -----

From: **Price, Fredric** <fwprice@blm.gov>

Date: Wed, May 29, 2013 at 3:16 PM

Subject: Re: Permit 74-15989

To: "Mathews, Kerrie" <Kerrie.Mathews@idwr.idaho.gov>

Kerrie,

Oh that's right! Our Field Office was pursuing two cold water permits (one from surface water and one from groundwater). It is true that BLM depends primarily on the groundwater source (74-15989) to cool that scalding hot water from the surface water sources. I raised the issue of what happens if the power goes out or the pump breaks on the well (74-15989 cool well), then how are we going to cool that scalding hot water in the pools (74-07396 cool creek water). I'll shoot this question off to the Field Office right now and get back to you.

Fred

On Wed, May 29, 2013 at 10:25 AM, Mathews, Kerrie <Kerrie.Mathews@idwr.idaho.gov> wrote:

Good Morning Fred:

I am currently finishing up a water appropriation permit that you and Denise were working on. During the final review I had a question come up that I was hoping you would be able to answer.

When I look at the water rights/permits for this area I came up with several for the BLM: 74-2276 - the main *hot* water right for Sharkey Spring, 74-7394 - also a *hot* water right for springs tributary to warm springs creek, 74-7396 - *cool* water to dilute 2 pools from warm springs creek and the NEW permit 74-15989 for *cool* water to cool the pools from ground water.

The question I have is the existing cool water permit 74-7396 insufficient to cool the pools? Would you please provide a little more clarification?

Thanks,

Kerrie A Mathews

Sr. Water Resource Agent/Stream Channel Specialist

Idaho Department of Water Resources

208.525.7161

"By three methods we may learn wisdom: First, by reflection, which is noblest; Second, by imitation, which is easiest; and third by experience, which is the bitterest."
-Confucius

Whitney, Rob

From: Berasi, Robert T [rberasi@blm.gov]
Sent: Friday, September 07, 2012 10:29 AM
To: Whitney, Rob
Subject: RE: Beneficial use Exams for BLM Water Developments

Rob ,

Good to hear from you, Sept 12 should work out perfect. We start to drain pools around 9:30 to 10:30 and they are filled and the overflows aren't working till around 3:00. Best time to catch overflow is before 9:30am or after 3:00pm. Be careful climbing down the bank to overflow pipe, it's a bit steep. Cell 208-940-0153

From: Whitney, Rob [<mailto:Rob.Whitney@idwr.idaho.gov>]
Sent: Wednesday, September 05, 2012 1:24 PM
To: Berasi, Robert T
Cc: Whitney, Rob; Nelson, Dan
Subject: Beneficial use Exams for BLM Water Developments

Bob,

As we discussed, the Department is conducting field exams to verify use under existing water permits. A field exam is the final step in perfecting the water right and is used to make the recommendation for a water right license. I have completed the exam for the Williams Lake CG and it would be helpful if you can provide the annual use information/data from your water meter readings. I intend to conduct several additional exams in the Salmon area the week of September 10. I will plan to do the exam for Sharkey Hot Springs on September 12. Any contact info I may need (if other than you) would be appreciated. We need to see and document specifics of the entire water system(s). Sharkey has two permits, one for the warm water springs and the other for cooling water from Warm Springs Creek. Alan Bittner is the contact identified on the "proof" statement submitted by BLM for the Hot springs and no's. 1 & 2 below.

I additionally have the following permits to verify:

- 1) Spring development for stock and wildlife known as the Price Creek Pipeline Extension. Will need to visit the spring(s) and stock troughs.
- 2) Spring development for stock and wildlife southwest of Lemhi Pass (3/4 miles+-). Will need to visit spring & trough.
- 3) Spring development for stock and wildlife southwest of Williams Lake. Birch Creek Spring in the Camp Creek Allotment. Bruce Easton shown as contact.

I understand that the contact information submitted by the BLM is fairly old so any updates would help. Appreciate your assistance.

ROB WHITNEY

WATER COMPLIANCE BUREAU

208-287-4924

208-859-2003cell

rob.whitney@idwr.idaho.gov