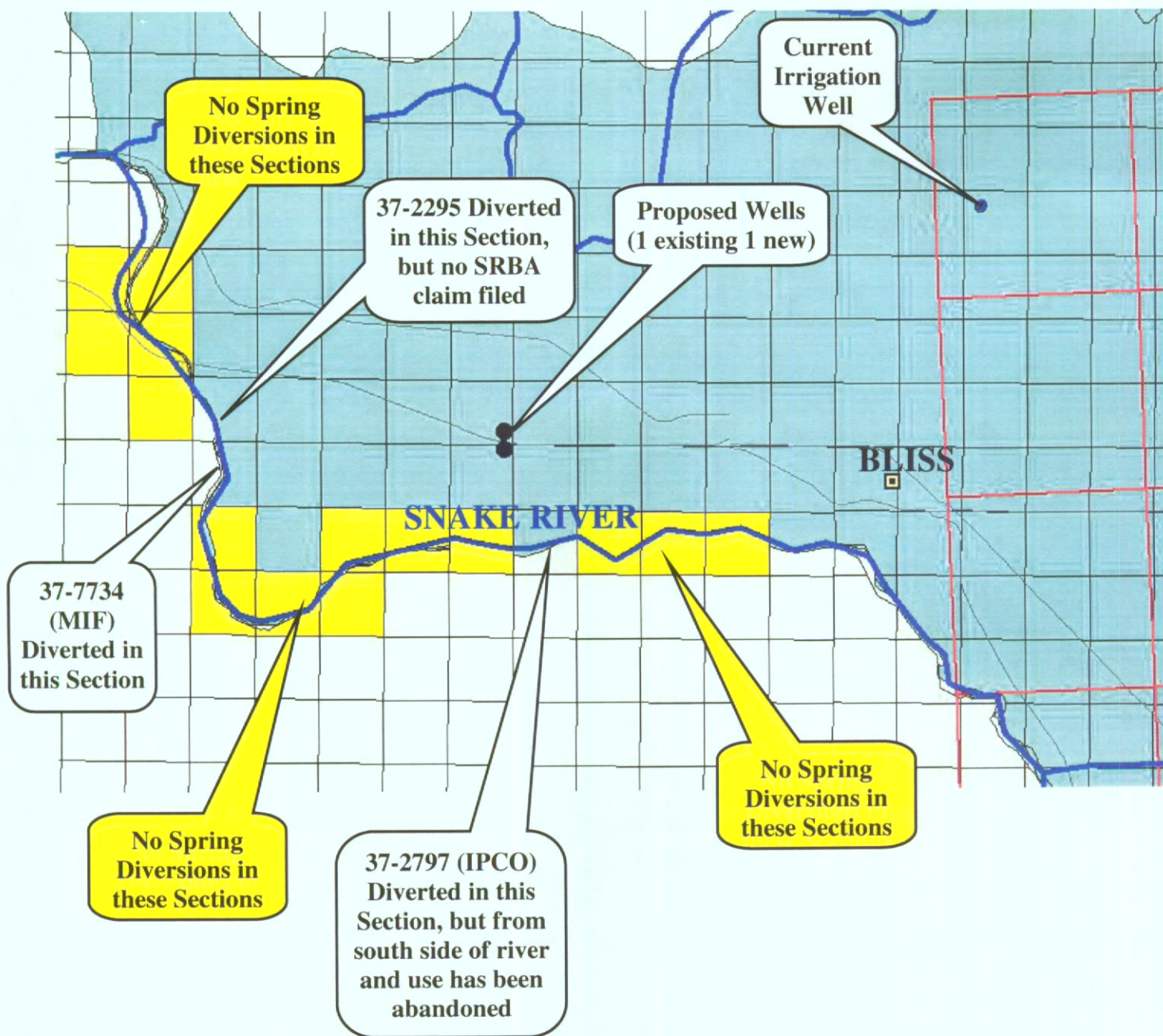




MICROFILMED

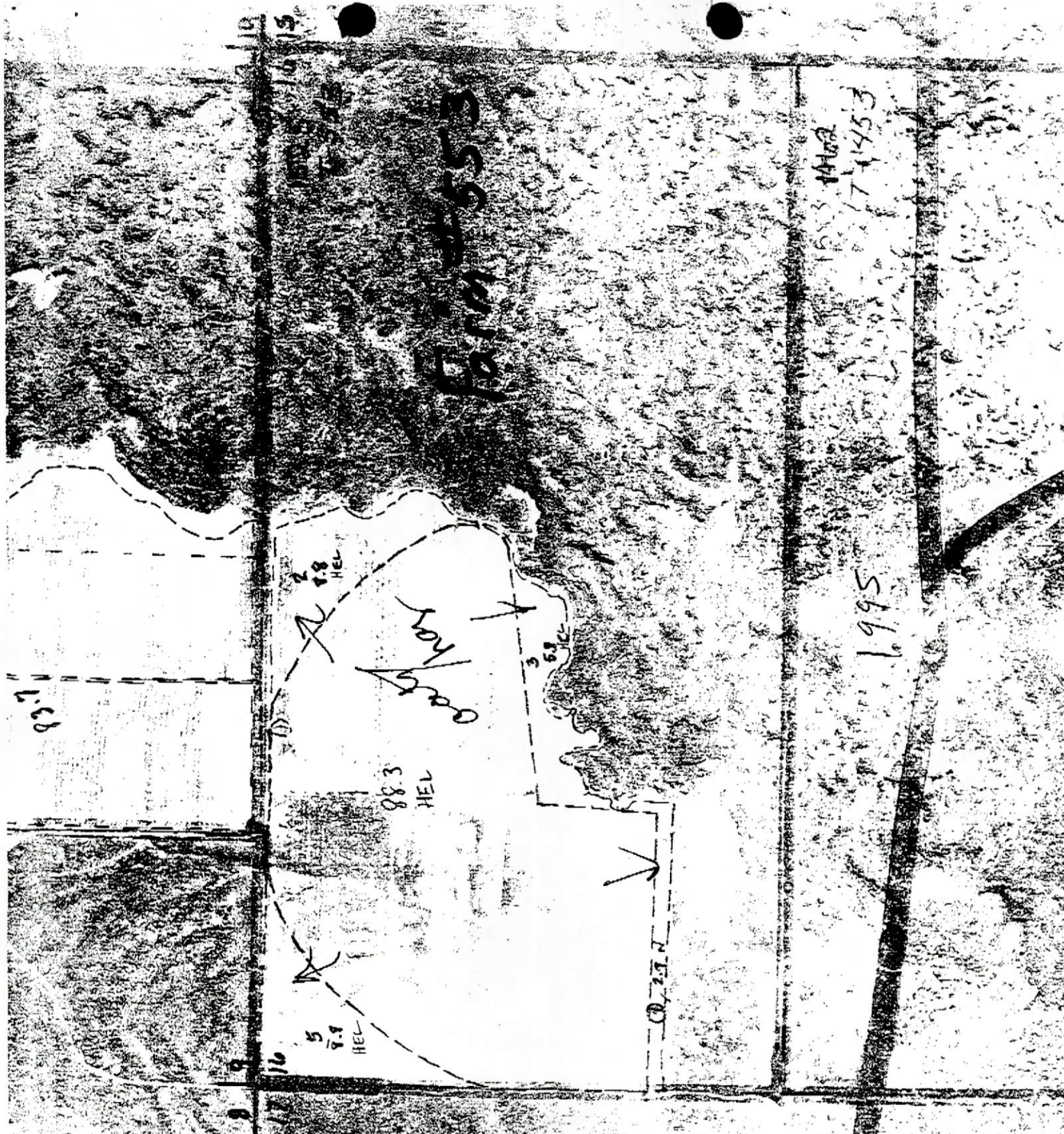
FEB 25 2003

SCANNED
JAN 27 2003

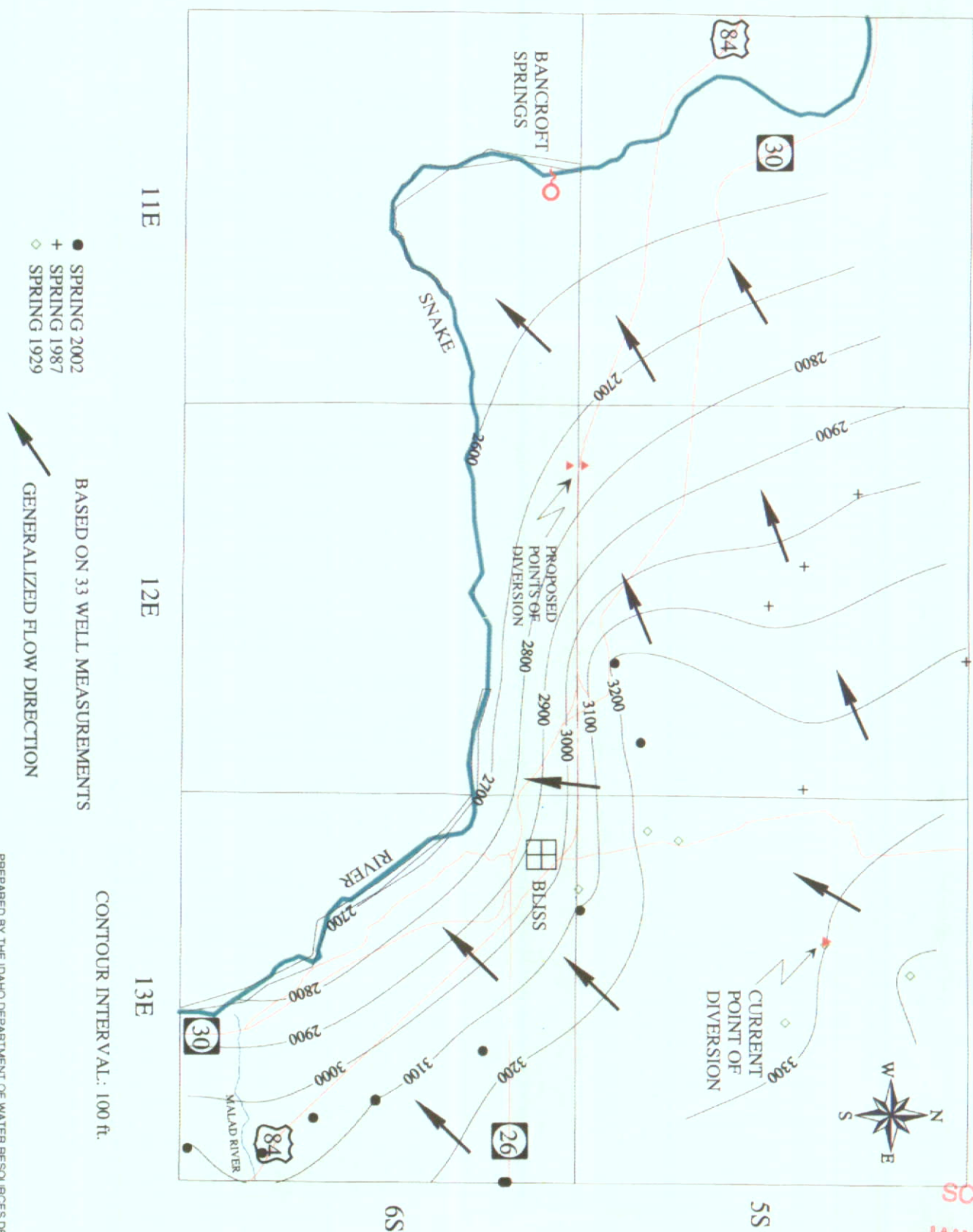
SCANNED
JAN 27 2003

MICROFILM 5

FEB 25 2003



GROUND WATER ELEVATIONS AND FLOW DIRECTIONS



BASED ON 33 WELL MEASUREMENTS

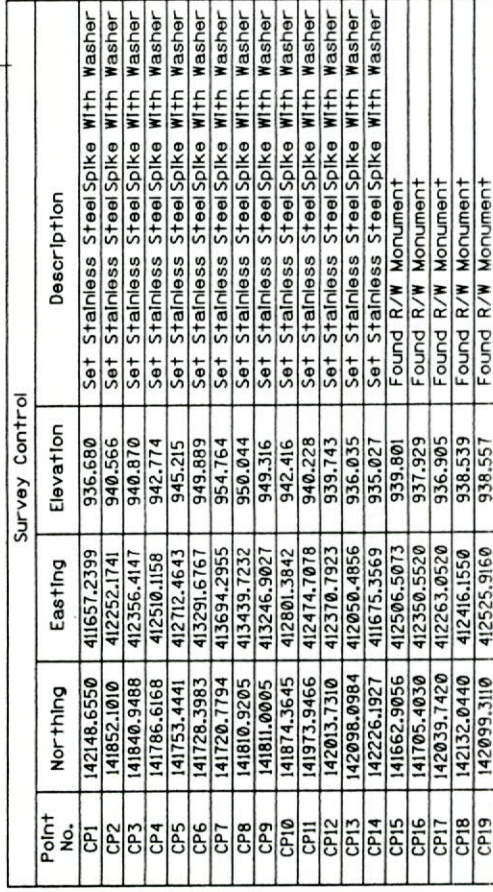
CONTOUR INTERVAL: 100 ft.

GENERALIZED FLOW DIRECTION

MICROFILMED

FEB 25 2003

SCANNED
JAN 27 2003

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FEB 25 2001

BUREAU OF LAND MANAGEMENT
IDAHO TRANSPORTATION DEPARTMENT
PROJECT No. IM-84-3(032)133

EXHIBIT "A"

MAP SHOWING
RIGHT OF WAY ON
U.S. GOVERNMENT LAND IN
GOODING COUNTY
IDAHO

TOTAL ACREAGE OF RIGHT-OF-WAY REQUIRED
ON U.S. GOVERNMENT LAND..... 7.928 ha/19.590 Ac.
RIGHT-OF-WAY LINE..... R/W-----R/W-----
RIGHT-OF-WAY REQUIRED..... 7.928ha/19.590 Ac.

MICROFILMED

FEB 25 2003

NO.		DATE	BY	REVISIONS	DESIGNED J.W.S.		IDaho TRANSPORTATION DEPARTMENT		PROJECT NO.		RIGHT OF WAY PLANS		metric	
					DESIGN CHECKED		IDaho TRANSPORTATION DEPARTMENT		IM-84-3(032)133		I-84 BLISS REST AREA		COUNTY GOODING	
					DETAILED		CADD FILE NAME						KEY NUMBER 3711	
					DRAWING CHECKED		DRAWING DATE						SHEET R-1 of 3	
							APRIL 2008							

Sharp & Smith, Inc.

T5S, R12E B.M.
T6S, R12E B.M.

CP12
A

SW⁴ SE⁴
SEC 31

T5S, R12E B.M.
T6S, R12E B.M.

Δ CP11

I-84 WEST BOUND 120+00
I-84 EAST BOUND

I-84 CONTROL LINE
METRIC

SW⁴ SE⁴
SEC 31

T5S, R12E B.M.
T6S, R12E B.M.

PARCEL ID NO. 1-1728

LOT 2
SEC 6

PARCEL ID NO. 1-1728 AMENDED

PARCEL NO. 1-1728
BUREAU OF LAND MANAGEMENT
PARCEL ID NO. 1-1728
TOTAL AREA 2.9
REMAINING 1.1

LOT 1
SEC 6

LOT 4
SEC 5

Right of Way Marker Metric			
R/W	As Found		Record
No.	Station	Location	Station Location
15			115+82.423 60.98m Rt.
16			117+86.784 77.215m Rt.
17			119+48.184 213.36m Rt.
18	119+51.287	385.711m Rt.	
19	120+97.618	365.699m Rt.	
20			121+00.584 213.36m Rt.
21			121+92.024 102.050m Rt.
22	124+70.888	63.181m Rt.	124+87.957
23	124+95.886	60.853m Rt.	124+96.825 60.98m Rt.
24	129+21.767		129+21.644 60.98m Rt.
25	121+37.428	354.717m Rt.	

Right of Way Marker Feet			
R/W	As Found		Record
No.	Station	Location	Station Location
15			380+00.00 200.00' Rt.
16			387+00.00 253.33' Rt.
17			392+00.00 700.00' Rt.
18	392+10.18	1198.84' Rt.	
19	396+80.27	1199.80' Rt.	
20			397+00.00 700.00' Rt.
21			400+00.00 334.81' Rt.
22	409+14.90	207.32' Rt.	408+04.30
23	409+88.92	199.65' Rt.	410+00.00 200.00' Rt.
24	423+84.13		423+83.78 200.00' Rt.
25	423+84.12	1163.77' Rt.	

ADDITIONAL ACRES OF R/W REQUIRED:

T5S, R12E, B.M.
SECTION 31 - SE⁴ SE⁴, NE⁴ SE⁴ (8.12 ACRES)
T6S, R12E, B.M.
SECTION 6 - LOT 1, LOT 2, (11.47 ACRES)

EXISTING R/W GRANTED UNDER R/W SERIAL
NUMBERS 1-1728, 5-10-88 AND AS AMENDED
1-1728, 2-20-81.

NOTES:

1. BASED UPON ACTUAL TIES TO MONUMENTS AT PC STATION POINTS FOUND IN THE MEDIAN.
2. ROW MONUMENTS FOUND DO NOT MATCH RECORD DATA EITHER ON THE PLANS OR ON THE BUREAU OF LAND MANAGEMENT R/W PERMIT.
3. THIS DRAWING MATCHES THE BUREAU OF LAND MANAGEMENT RECORD DATA BASED UPON CENTER LINE STATIONING.

Record:
Federal Aid Project 1-80N 3(12)133 Sec "B"
Federal Aid Project 1-80N 3(41)133 Sec "B"
Federal Aid Project 1R-80N 3(76)132

BLM Case File •IDI-1728

MICROFILMED

FEB 25 2003

DESIGNED J.W.S.		IDaho		PROJECT NO.		RIGHT OF WAY PLANS		metric	
DESIGN CHECKED		TRANSPORTATION		IM-84-3(032)133		I-84		COUNTY GOODING	
DETAILED		DEPARTMENT				BLISS REST AREA		KEY NUMBER 3711	
DRAWING CHECKED		Sharp & Smith, Inc.						SHEET R-3 of 3	
NO. DATE BY DESCRIPTION		SCALES SHOWN ARE FOR 278" x 432 mm PRINTS ONLY		CADD FILE NAME 3711R703.DGN		DRAWING DATE: APRIL 2002			

Right of Way Marker				Metric			
R/W	As Found		Record	R/W	As Found		Record
No.	Station	Location	Station	No.	Station	Location	Station
1				1	115+92.423	60.96m Lt.	
2				2	117+85.300	77.773m Lt.	
3	118+86.264	213.851m Lt.	118+87.224	3	213.863m Lt.	213.36m Lt.	
4	120+08.272	213.853m Lt.	120+08.144	4	213.36m Lt.	213.36m Lt.	
5	118+83.581	262.046m Lt.		5			
6	121+70.237	303.960m Lt.		6			
7	121+96.700	195.837m Lt.		7			
8	120+84.266	116.308m Lt.		8			
9	121+28.827	79.725m Lt.	121+31.084	9	73.762m Lt.	73.762m Lt.	
10	123+38.408	60.747m Lt.	123+44.425	10	60.96m Lt.	60.96m Lt.	
11	124+55.652		124+55.652	11	60.96m Lt.	60.96m Lt.	
12	129+21.766		129+21.641	12	60.96m Lt.	60.96m Lt.	
New Right of Way Marker				New Right of Way Marker			
13	119+62.888	332.587m Lt.		13			
14	120+60.586	355.268m Lt.		14			

SEC. 31

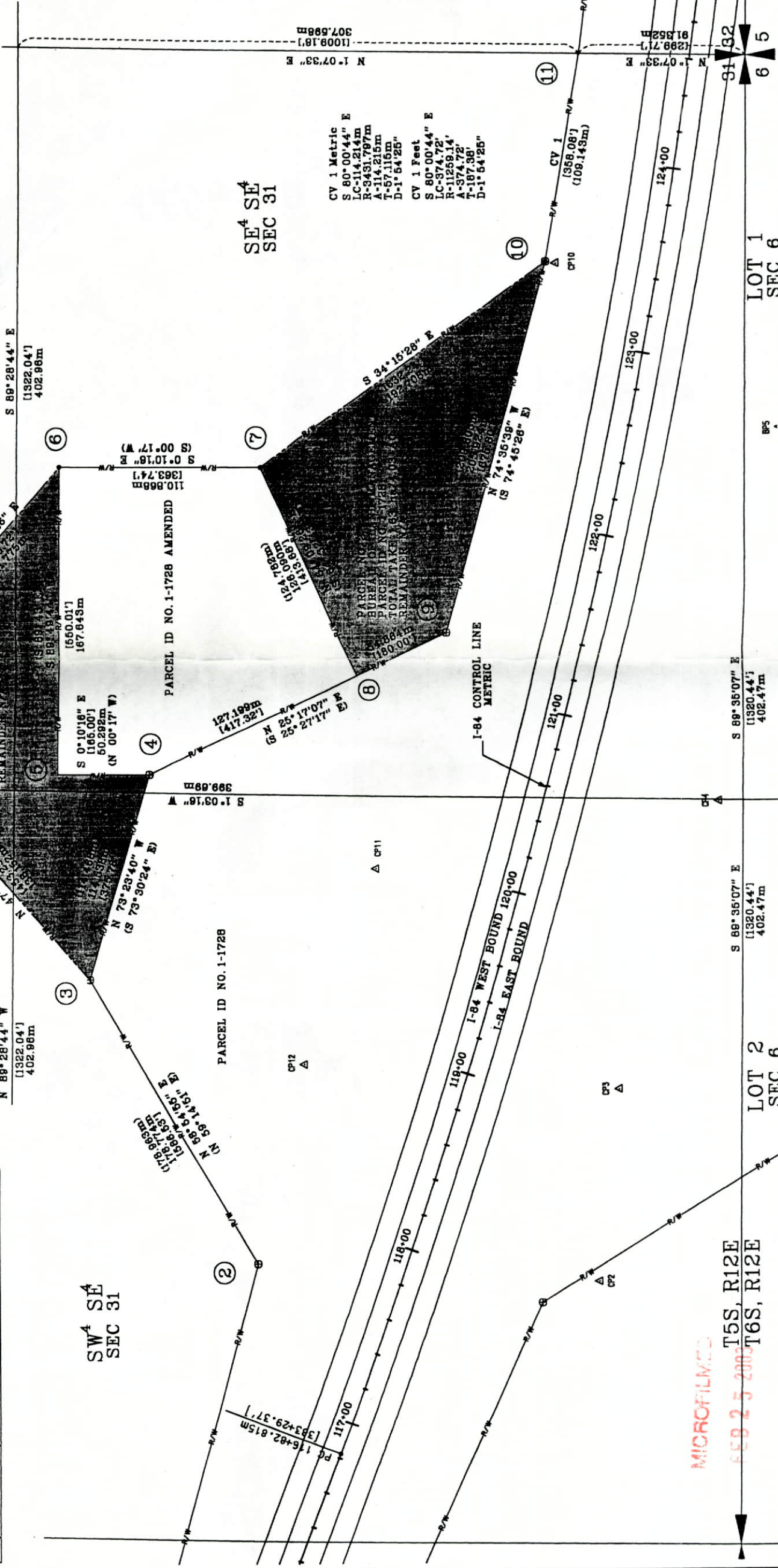
T5S, R12E, B.M.

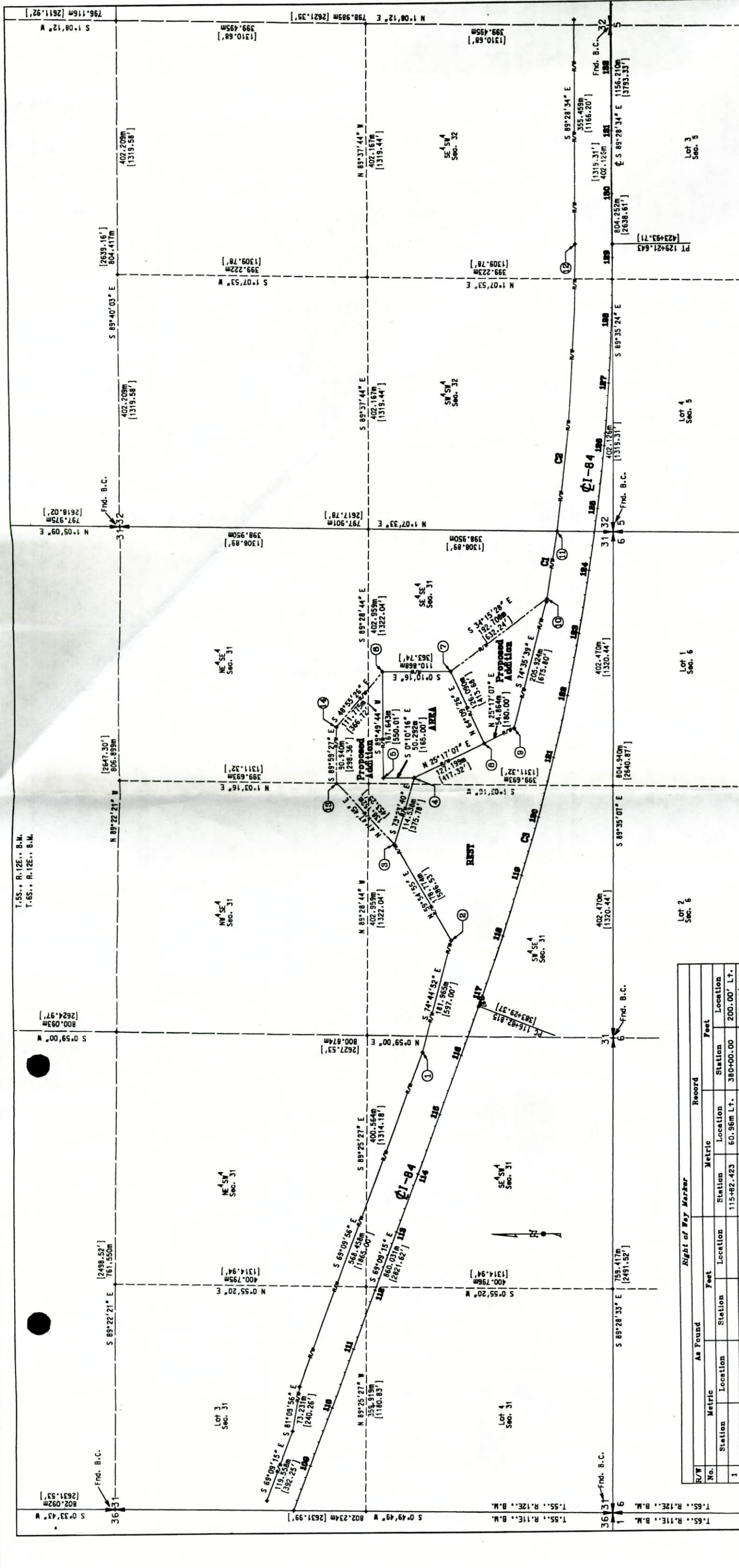
Right of Way Marker				Record			
R/W	As Found		Location	R/W	As Found		Location
No.	Station	Location	Station	No.	Station	Location	Station
1				1	380+00.00	200.00' Lt.	
2				2	385+89.99	255.18' Lt.	
3	389+86.92	701.81' Lt.	390+00.00	3	700.00' Lt.	700.00' Lt.	
4	393+87.14	700.98' Lt.	393+89.9	4	700.00' Lt.	700.00' Lt.	
5	393+48.94	859.73' Lt.		5			
6	399+28.52	997.21' Lt.		6			
7	400+15.34	842.51' Lt.		7			
8	396+79.27	381.59' Lt.		8			
9	397+85.94	241.88' Lt.	398+00.00	9	242.00' Lt.	242.00' Lt.	
10	404+83.54	198.30' Lt.	405+00.00	10	200.00' Lt.	200.00' Lt.	
11			408+84.43	11	200.00' Lt.	200.00' Lt.	
12			423+93.76	12	200.00' Lt.	200.00' Lt.	
New Right of Way Marker				New Right of Way Marker			
13	392+48.24	1081.18' Lt.		13			
14	395+68.78	1165.58' Lt.		14			

ADDITIONAL ACRES OF R/W REQUIRED:
T5S, R12E, B.M.
SECTION 31 - SE⁴ (8.12 ACRES)
T6S, R12E, B.M.
SECTION 6 - LOT 1, LOT 2, (11.47 ACRES)
EXISTING R/W GRANTED UNDER R/W SERIAL NUMBERS 1-1728, 5-10-68 AND AS AMENDED 1-1728, 2-20-81.

NOTES:
1. BASED UPON ACTUAL TIES TO MONUMENTS AT PC STATION POINTS FOUND IN THE MEDIAN.
2. ROW MONUMENTS FOUND DO NOT MATCH RECORD DATA EITHER ON THE PLANS OR ON THE BUREAU OF LAND MANAGEMENT R/W PERMIT.
3. THIS DRAWING MATCHES THE BUREAU OF LAND MANAGEMENT RECORD DATA BASED UPON CENTER LINE STATIONING.

Record:
Federal Aid Project I-80N S(12)133 Sec "B"
Federal Aid Project I-80N S(4)133 Sec "B"
Federal Aid Project IR-80N S(76)132
BLM Case File #DI-1728





Curve Table					
	Bearing	Chord length	Radius	Arc length	Tangent
CI	S 81°00'44"E	114.214m	3431.797m	114.215m	57.115m
					1°54'25"
C2	S 81°00'44"E	374.72'	11259.14'	374.72'	187.38'
					1°54'25"
C3	S 85°39'02"E	457.636m	3431.797m	457.956m	299.328m
					7°38'46"
C4	S 85°39'02"E	1501.43'	11259.14'	1502.48'	982.04'
					7°38'46"
C5	S 79°18'54"E	1232.345m	3492.757m	1238.828m	625.990m
					20°19'19"
	S 79°18'54"E	4043.11'	11459.14'	4064.38'	2053.77'
					20°19'19"

Right of Way Marker				Record			
R/W	No.	As Found		Metric		Feet	
		Station	Location	Station	Location	Station	Location
	1	115+82.423	60.96m Lt.	380+00.00	200.00' Lt.		
	2	117+65.300	77.773m Lt.	385+89.99	255.16' Lt.		
	3	118+87.224	213.36m Lt.	390+00.00	700.00' Lt.		
	4	120+09.144	213.36m Lt.	393+99.9	700.00' Lt.		
	5	119+93.581	262.046m Lt.	393+48.94	859.73' Lt.		
	6	121+70.237	303.950m Lt.	399+28.52	997.21' Lt.		
	7	121+96.700	195.837m Lt.	400+15.34	642.51' Lt.		
	8	120+94.266	116.309m Lt.	396+79.27	381.59' Lt.		
	9	121+29.827	73.725m Lt.	397+95.94	241.88' Lt.		
	10	123+39.408	60.747m Lt.	404+83.54	199.30' Lt.		
	11	124+55.652					
	12	129+21.766					
	13	119+62.888	332.587m Lt.	392+48.24	1091.16' Lt.		
	14	120+60.588	355.268m Lt.	395+68.78	1165.58' Lt.		

metric

COUNTY GOODING

KEY NUMBER 3711

SHEET 1 OF 2

ORIGINAL STORED AT: ITD.

PROJECT NO.

IM-84-3(032)133

IDAHO TRANSPORTATION DEPARTMENT

Sharp & Smith, Inc.

DESIGNED J.W.S.

DESIGN CHECKED

DETAILED

DRAWING CHECKED

NO. DATE BY

DESCRIPTION

MICROFILMED

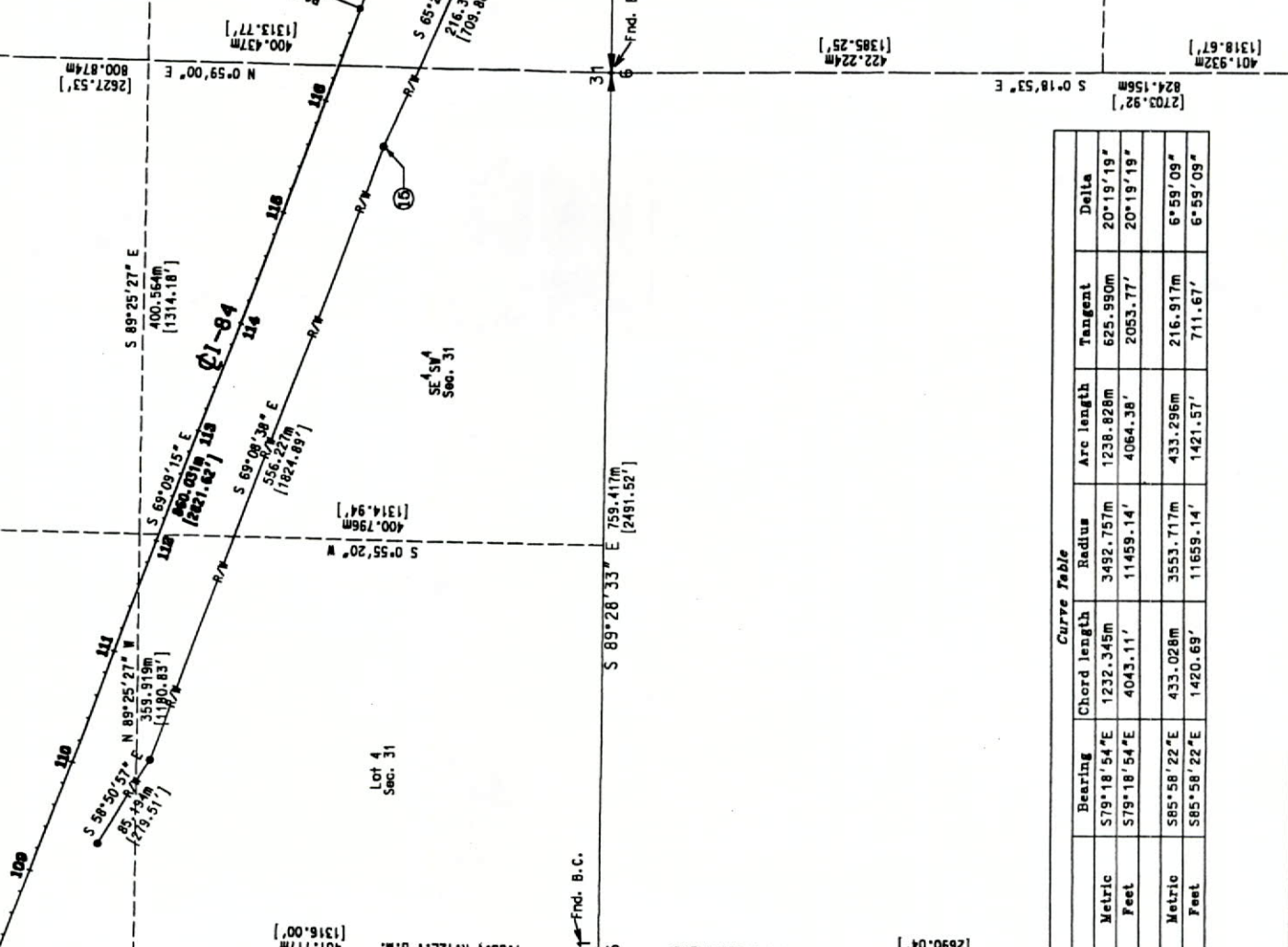
FEB 25 2003

SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY

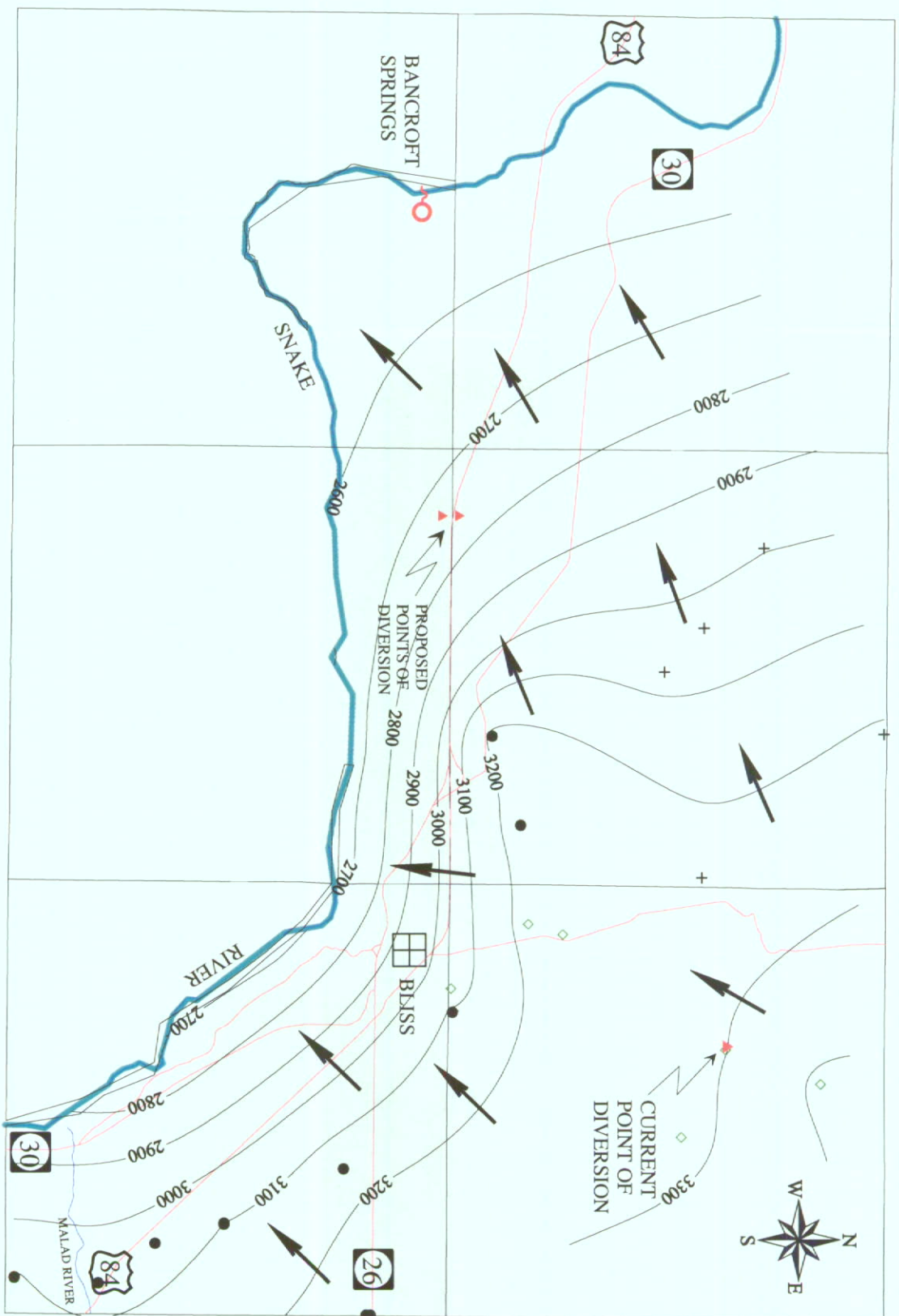
CADD FILE NAME

DRAWING DATE: APRIL 2002

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761.550m



GROUND WATER ELEVATIONS AND FLOW DIRECTIONS



MICROFILMED
FEB 25 2003

11E

12E

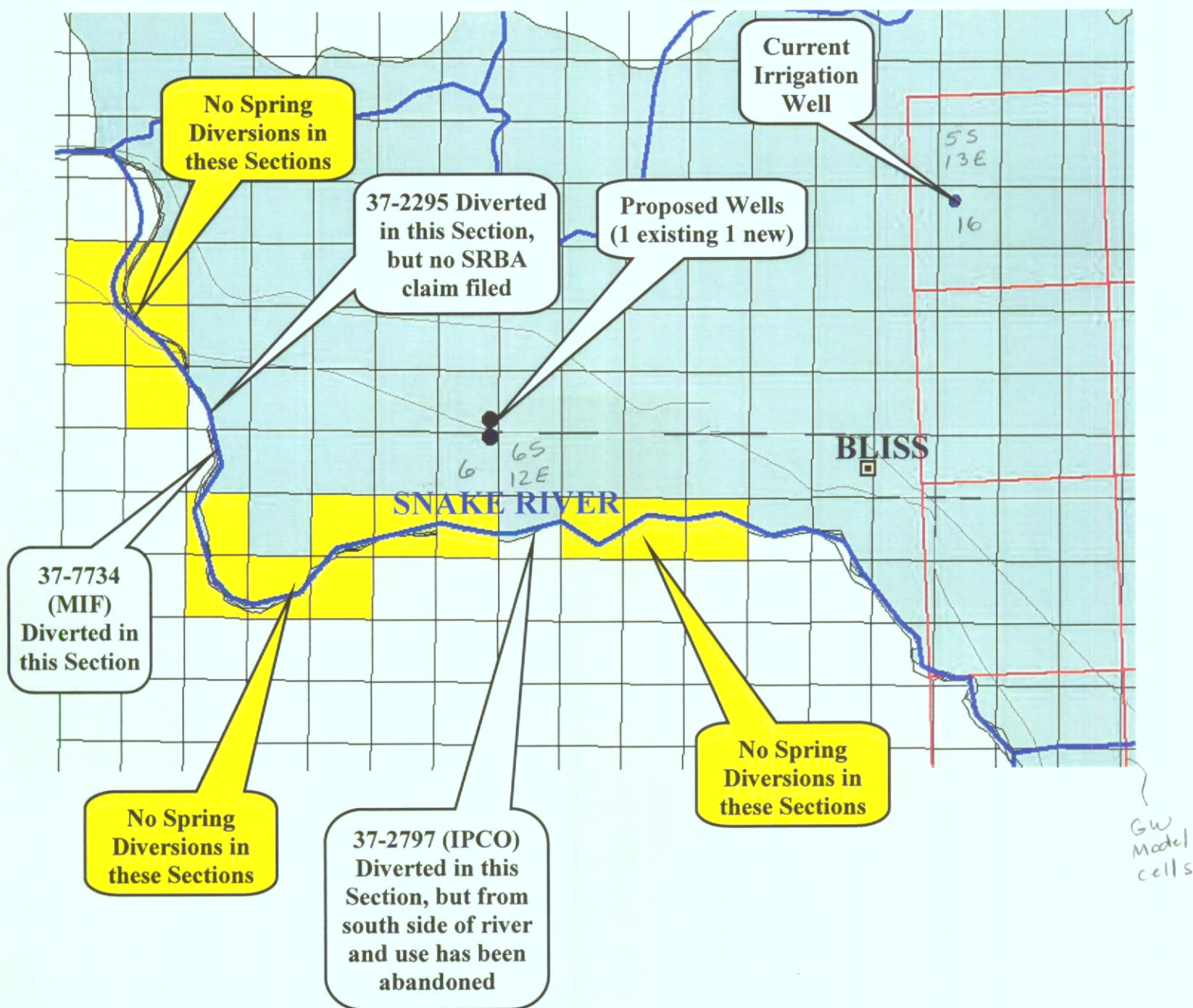
13E

BASED ON 33 WELL MEASUREMENTS

CONTOUR INTERVAL: 100 ft.

- SPRING 2002
- + SPRING 1987
- ◇ SPRING 1929

GENERALIZED FLOW DIRECTION



MICROFILMED
FEB 25 2003

AFFIDAVIT of PUBLICATION

RECEIVED

SEP 24 2002

Department of Water Resources
Southern Region

State of Idaho } ss.
County of Gooding }

Norma DeVoe, being first duly sworn, deposes and says that he/she is the printer (publisher) of the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho; that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once each week for

2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 12th day of September, 2002, and the date of the last publication was on the 19th day of September, 2002.

On this 19th day of September, in the year of 2002, before me, a Notary Public, personally appeared Norma DeVoe, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he/she executed the same.

SHELLEY STURGEON
Notary Public
State of Idaho

Shelley Sturgeon
Notary Public for Idaho

Residing at Jerome

My commission expires: 12/3/05

7946/43488
GOODING COUNTY LEADER
Gooding, Idaho

COST OF PUBLICATION

Number of Picas per Line _____

Number of Lines in Notice _____

Number of Insertions 2x

_____ Lines tabular at _____ 8.0¢/Pica

488.81 Lines straight at 34.22 7.0¢/Pica

488.81 Subsequent lines at 29.33 6.0¢/Pica

Affidavit Fee: 2.50

TOTAL COST 66.05

COPY OF NOTICE

(Paste Here)

State of Id. - Dept of Trans.
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

I.D.W.R.

BILL TO

NOTICE OF PROPOSED CHANGE TO WATER RIGHTS

Notice is hereby given that an Application for Transfer has been filed with the Idaho Department of Water Resources for changes to water rights within Gooding County. STATE OF IDAHO, DEPT OF TRANSPORTATION, DIVISION OF HIGHWAYS, PO BOX 7129; BOISE ID 83707 filed Application No. 70087 on 8/9/02 for diversion of a combined total of 0.35 cfs from ground water. Transfer proposes modifying an existing right, 37-7003, for use at a Rest Area located along Interstate 84 approximately 6.5 miles West and 1.0 mile North of Bliss and transfer an existing irrigation right, 37-7385A, to the Rest Area in order to meet future increases in water need. The existing irrigation right currently lists the diversion point as a well located approximately 5.0 miles North and 1.25 miles East of Bliss. The transfer proposes adding an additional well to the existing water system at the Rest Area. For specific details regarding the application(s), please contact IDWR Southern Regional Office at 208-736-3033 or visit www.idwr.state.id.us with detail provided under "New Water Right Applications". Protests may be submitted based on the criteria of Sec 42-222, Idaho Code. Protests against approval must be filed with IDWR, Southern Region, 1341 Fillmore St.-Suite 200; Twin Falls, ID 83301 with a protest fee of \$25.00 for each application on or before September 30, 2002. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher, Director
PUB: 9/12 - 9/19 G43488

43488

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FEB 25 2003

Table 1. Evaporation Data for Bliss Rest Area

Monthly Evaporation Fractions												
Area*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1	1.5	3	9	12	14	19	18	11	6	4	1.5
2	0.5	1.5	3	8	12	15	19	17	11	6	4	3
3	0.5	1.5	4	8	14	15	17	16	10	6	5	3
4	1	2	4	7	12	15	19	16	11	6	4	3
5	1	3	5	10	12	14	16	15	10	6	5	3
Totals												

Ref: Web Page adapted from Molnau, et. Al, "Monthly Shallow Pond Evaporation in Idaho," 1992.

Table 2. Precipitation Data for Bliss Rest Area

Average Precipitation @ Twin Falls												
Twin Falls	January	February	March	April	May	June	July	August	September	October	November	December
Inches	1.14	0.83	1.07	0.95	1.08	0.88	0.3	0.49	0.68	0.72	1.26	1.13

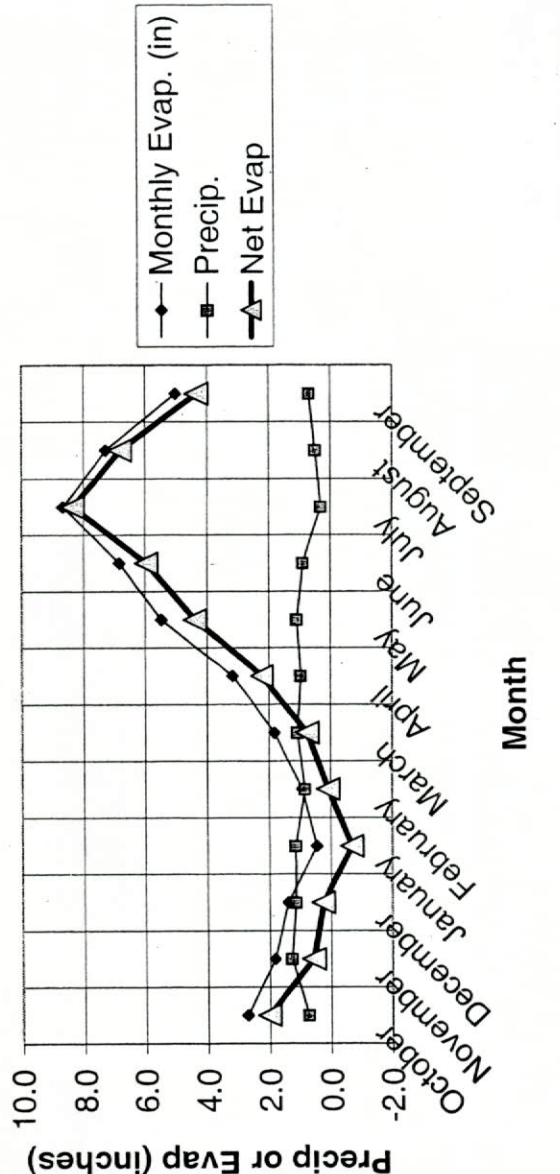
10.53

Ref: Idaho State Climate Services, updated 4/14/00

Table 3. Precipitation Data for Bliss Rest Area

Monthly Evap. (in)		Precip. (in)		Net Evap (in)	
October	2.7	0.72	2.0	0.68	4.3
November	1.8	1.26	0.6	0.49	4.3
December	1.4	1.13	0.2	0.72	4.3
January	0.5	1.14	-0.7	0.68	4.3
February	0.9	0.83	0.1	0.68	4.3
March	1.8	1.07	0.8	0.68	4.3
April	3.2	0.95	2.2	0.68	4.3
May	5.5	1.08	4.4	0.68	4.3
June	6.8	0.88	5.9	0.68	4.3
July	8.7	0.3	8.4	0.68	4.3
August	7.3	0.49	6.8	0.68	4.3
September	5.0	0.68	4.3	0.68	4.3
Totals	45.5	10.5	35.0		

Net Evaporation for Bliss Rest Area



Ref: Monthly Shallow Pond Evaporation in Idaho, ASAE Paper PNW92-111

JAN 27 2003

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FEB 25 2003

BlissStan.xls NetEvap

4/15/2002 8:14 AM

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
TRANSFER OF WATER RIGHT
TRANSFER NO. 70087

This is to certify that: STATE OF IDAHO
 DEPT OF TRANSPORTATION
 DIVISION OF HWYS
 PO BOX 7129
 BOISE ID 83707
 (208)334-8505

has requested a change to the water right(s) listed below. This change in water right(s) is authorized pursuant to the provisions of Section 42-222, Idaho Code. A summary of the changes is also listed below. The authorized change for each affected water right, including conditions of approval, is shown on the following pages of this document.

Summary of Water Rights Before the Proposed Change

<u>Right</u>	<u>Origin/Basis</u>	<u>Priority</u>	<u>Rate</u>	<u>Volume</u>	<u>Acre Limit</u>	<u>Total Acres</u>	<u>Source</u>
37-7003	WR/Decreed	08/10/1967	0.13 cfs	7.2 af			GROUND WATER
37-7385A	WR/Decreed	09/20/1974	0.22 cfs	44 af	11.0		GROUND WATER

Purpose of Transfer (Changes Proposed)

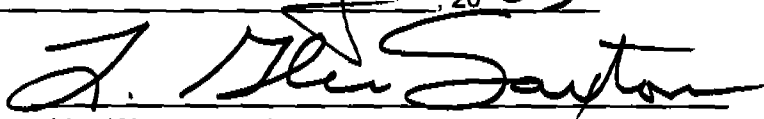
<u>Current Number</u>	<u>Split</u>	<u>POD</u>	<u>POU</u>	<u>Add POD</u>	<u>Period of Use</u>	<u>Nature of Use</u>
37-7003	NO	NO	YES	YES	NO	YES
37-7385A	YES	YES	YES	NO	YES	YES

Summary of Water Rights After the Approved Change

<u>Existing Right</u>	<u>New No. (changed portion)</u>	<u>Transfer Rate</u>	<u>Transfer Volume</u>	<u>Acre Limit</u>	<u>Total Acres</u>	<u>New No. (remaining portion)</u>	<u>Remaining Rate</u>	<u>Remaining Volume</u>	<u>Remaining Acre Limit</u>	<u>Remaining Total Acres</u>
37-7003	37-7003	0.13 cfs	7.2 af	N/A	N/A		N/A	N/A	N/A	N/A
37-7385A	37-20853	0.13 cfs	19.8 af	N/A	N/A	37-20852	0.09 cfs	18.8 af	N/A	4.7
COMBINED TOTALS		0.26 cfs	27.0 af	N/A	N/A		N/A	N/A	N/A	N/A

Detailed Water Right Description(s) attached

Dated this 30th day of January, 2003


 Chief, Water Allocation Bureau

MICROFILMED
 FEB 25 2003

SCANNED
 FEB 05 2003

WATER RIGHT NO. 37-7003
As Modified by Transfer No. 70087

In accordance with the approval of Transfer No. 70087, Water Right No. 37-7003 is now described as follows.

Right Holder: STATE OF IDAHO
 DEPT OF TRANSPORTATION
 DIVISION OF HWYS
 PO BOX 7129
 BOISE ID 83707

Priority Date: August 10, 1967

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
MUNICIPAL	01/01	to 12/31	0.13 CFS	7.2 AF
			0.13 CFS	7.2 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NWSESE Sec. 31 Twp 05S Rge 12E GOODING County

GROUND WATER L2 (NENWNE) Sec. 6 Twp 06S Rge 12E GOODING County

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S	12E	31													X	X	X	X	
06S	12E	6	X	X															
			L1	L2															

CONDITIONS OF APPROVAL

1. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
2. The total instantaneous diversion of water from all points of diversion under Rights 37-7003 and 37-20853 shall not exceed 0.26 cfs, nor total combined annual volume of 27 af.
3. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 130.
4. Prior to diversion of water under this approval, the right holder shall provide a lockable controlling works for all authorized points of diversion. The controlling works must be suitable for control of the diversions and acceptable to the watermaster.

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FEB 25 2003

SCANNED

FEB 05 2003

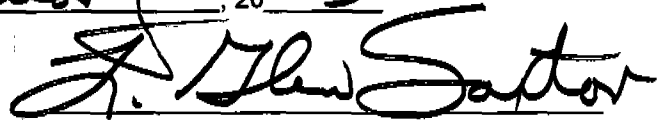
WATER RIGHT NO. 37-7003
As Modified by Transfer No. 70087

CONDITIONS OF APPROVAL

5. Prior to the diversion and use of water under Transfer approval 70087, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.
6. The right holder shall measure and annually report diversions of water and/or other pertinent hydrologic and system information as required by Section 42-701, Idaho Code.
7. Place of use is within the service area of Bliss Rest Area operated by the Idaho Department of Transportation as provided for under Idaho law.
8. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
9. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
10. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.

This water right is subject to all prior water rights and shall be administered in accordance with Idaho law and applicable rules of the Department of Water Resources.

Dated this 30th day of January, 2003


Chief, Water Allocation Bureau

MICROFILMED
FEB 25 2003

SCANNED
FEB 05 2003

WATER RIGHT NO. 37-20853
As Modified by Transfer No. 70087

In accordance with the approval of Transfer No. 70087, Water Right No. 37-20853 is now described as follows.

Right Holder: STATE OF IDAHO
 DEPT OF TRANSPORTATION
 DIVISION OF HWYS
 PO BOX 7129
 BOISE ID 83707

Priority Date: September 20, 1974

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
MUNICIPAL	01/01	12/31	0.13 CFS	19.8 AF
			0.13 CFS	19.8 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NWSESE Sec. 31 Twp 05S Rge 12E GOODING County

GROUND WATER L2 (NENWNE) Sec. 6 Twp 06S Rge 12E GOODING County

PLACE OF USE: MUNICIPAL

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S 12E 31													X	X	X	X	
06S 12E 6	X		X														
	L1		L2														

CONDITIONS OF APPROVAL

1. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
2. The total instantaneous diversion of water from all points of diversion under Rights 37-7003 and 37-20853 shall not exceed 0.26 cfs, nor total combined annual volume of 27 af.
3. Use of water under this right will be regulated by a watermaster with responsibility for the distribution of water among appropriators within a water district. At the time of this approval, this water right is within State Water District No. 130.
4. Prior to diversion of water under this approval, the right holder shall provide lockable controlling works for all authorized points of diversion. The controlling works must be suitable for control of the diversions and acceptable to the watermaster.
5. Prior to the diversion and use of water under Transfer approval 70087, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.

MICROFILMED
 FEB 25 2003
 SCANNED
 FEB 05 2003

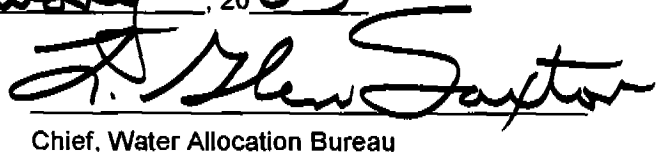
WATER RIGHT NO. 37-20853
As Modified by Transfer No. 70087

CONDITIONS OF APPROVAL

6. The right holder shall measure and annually report diversions of water and/or other pertinent hydrologic and system information as required by Section 42-701, Idaho Code.
7. Place of use is within the service area of Bliss Rest Area operated by the Idaho Department of Transportation as provided for under Idaho law.
8. This right authorizes 19.8 afa for reasonably anticipated future needs for a planning horizon through 2025 within the service area pursuant to Chapter 2, Title 42, Idaho Code.
9. The full system capacity necessary to provide water for the reasonably anticipated future needs authorized under this right must be constructed by the end of the designated planning horizon.
10. That portion of this right authorized for reasonably anticipated future needs shall not be changed to a place of use outside the service area as defined in Section 42-202B, Idaho Code, or to a new purpose of use.
11. The right holder shall not assign or sell this right without first securing the written approval of the Department of Water Resources.
12. The right holder shall accomplish the change authorized by this transfer within one (1) year of the date of this approval.
13. Failure of the right holder to comply with the conditions of this transfer is cause for the Director to rescind approval of the transfer.
14. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.

This water right is subject to all prior water rights and shall be administered in accordance with Idaho law and applicable rules of the Department of Water Resources.

Dated this 30th day of January, 2003



Chief, Water Allocation Bureau

MICROFILMED

FEB 25 2003

SCANNED
FEB 05 2003

WATER RIGHT NO. 37-20852
As Modified by Transfer No. 70087

In accordance with the approval of Transfer No. 70087, Water Right No. 37-20852 is now described as follows.

Right Holder: STATE OF IDAHO
DEPT OF TRANSPORTATION
DIVISION OF HWYS
PO BOX 7129
BOISE ID 83707

Priority Date: September 20, 1974

Source: GROUND WATER

<u>BENEFICIAL USE</u>	<u>From</u>	<u>To</u>	<u>Diversion Rate</u>	<u>Volume</u>
IRRIGATION	04/01	to 11/01	0.09 CFS	18.8 AF
			0.09 CFS	18.8 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NWSENW Sec. 16 Twp 05S Rge 13E GOODING County

CONDITIONS OF APPROVAL

1. This right was separated from the land by warranty deed on November 12, 1999, and does not have a place of use.
2. The period of use for the irrigation described in this approval may be extended to a beginning date of 3/15 and an ending date of 11/15 provided that beneficial use of the water can be shown and other elements of the right are not exceeded. The use of water before 4/1 and after 11/1 is subordinate to all water rights having no subordinated early or late irrigation use and a priority date earlier than December 11, 2002.
3. Pursuant to Section 42-1412(6), Idaho Code, this water right is subject to such general provisions necessary for the definition of the rights or for the efficient administration of water rights as may be determined by the Snake River Basin Adjudication court at a point in time no later than the entry of the final unified decree.

This water right is subject to all prior water rights and shall be administered in accordance with Idaho law and applicable rules of the Department of Water Resources.

Dated this 30th day of January, 2003


Chief, Water Allocation Bureau

MICROFILMED

FEB 25 2003

SCANNED
FEB 05 2003

RECEIVED

JAN 31 2003

Department of Water Resources

Transfer No. 70087

Receipt No. 5025107

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

1. Applicant Information STATE OF IDAHO

DEPT OF TRANSPORTATION

DIVISION OF HWYS

PO BOX 7129

BOISE ID 83707

(208)334-8505

- R/W Section

RECEIVED

AUG 09 2002

Department of Water Resources
Southern RegionWill this transfer result in an ownership change? X Yes No*37-7385A***2. Current Water Right****Part 2 Attached for Each Right**

	Origin/Basis	Rate	Volume	Acres	Total	Source
37-7003	AJC/License	0.13 cfs	7.2 af			GROUND WATER
37-7385A	AJC/License	0.22 cfs	44.0 af	11.0		GROUND WATER

3. Purpose of Transfer (Change Proposed)**Part 3A Attached for Each Proposed Right****Part 3B Attached for Each Split Right**

Right	Split	POD	POU	Add POD	Period of Use	Nature of Use
37-7003	NO	NO	YES	YES	NO	YES
37-7385A	NO	YES	YES	NO	YES	YES

Describe the reason for the proposed changes

Transfer is being proposed to allow for expansion of existing rest area located along Interstate 84, west of Bliss. Current rest area facility does not have adequate water right to meet public need. Transfer is based on rest area expansion and estimated future increases in water needs.

4. FOR CHANGES IN NATURE OF USE ONLY**A. Describe the expected quantity of the return flows and location of discharge after the proposed change**

Waste water will be kept on site in sewage lagoons where it will evaporate.

B. Describe the effects on other water uses resulting from the proposed change

None anticipated

5. Total Amounts Transferred

	Rate	Acres	Total	Volume
37-7003	0.13 cfs			7.2 af
37-7385A	0.22 cfs			44.0 af
TOTAL	0.35 cfs			51.2 af

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FEB 25 2003

SCANNED

JAN 27 2003

70087

Transfer No. 70087

Receipt No. 5025187

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

I hereby assert that no one will be injured by such change and that the change does not constitute an enlargement in use of the original right. The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in voiding its approval.

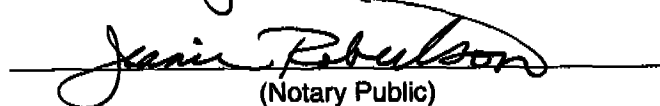
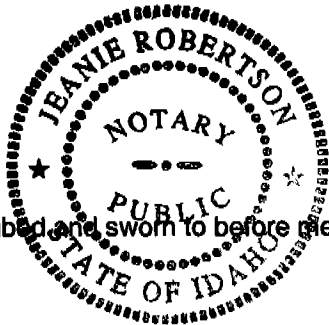


(Signature of Applicant)

Sr. Environmental Planner, ITD

(Title or Office)

Subscribed and sworn to before me this 9th day of Aug., 2002



(Notary Public)

My commission expires 9-23-06

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

Transfer No. 70087

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2**

Current Water Right No. 37-7003

Priority Date: 08/10/1967

Origin: Adjudication Claim

Basis: License

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
DOMESTIC	01/01 12/31	0.13 CFS	7.2 AFA	
Total Diversion		0.13 CFS	7.2 AFA	

Source and Point(s) of Diversion:

<u>Source</u>	<u>Twp</u>	<u>Range</u>	<u>Section</u>	<u>1/4 of 1/4 of 1/4</u>	<u>Lot</u>	<u>County</u>
GROUND WATER	06S	12E	6	NENWNE	2	GOODING

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05S	12E	31																	
06S	12E	6	X	X													X	X	
			L1	L2															

Conditions/Remarks:

1. DOMESTIC USE AT THE BLISS REST AREA.
2. THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE.

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

Page 4

Documentation of Ownership of the Current Place of Use

Lease agreement with BLM

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

NO

Describe the affect on the current place of use for this water right if the place of use is changed pursuant to this transfer

None anticipated, water will still be used as it is currently used.

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

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FEB 25 2003

SCANNED

JAN 27 2003

Transfer No. 70087

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2**

Current Water Right No. 37-7385A

Priority Date: 09/20/1974
Origin: Adjudication Claim
Basis: License
Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
IRRIGATION	04/01 11/01	0.22 CFS	44.0 AFA	
	Total Diversion	0.22 CFS	44.0 AFA	

Source and Point(s) of Diversion:

<u>Source</u>	<u>Twp</u>	<u>Range</u>	<u>Section</u>	<u>1/4 of 1/4 of 1/4</u>	<u>Lot</u>	<u>County</u>
GROUND WATER	05S	13E	16	NWSENW		GOODING

Conditions/Remarks:

1. THIS RIGHT WAS SEPARATED FROM THE LAND BY WARRANTY DEED ON NOVEMBER 12, 1999, AND DOES NOT HAVE A PLACE OF USE.
2. THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE ENTRY OF A FINAL UNIFIED DECREE. SECTION 42-1412(6), IDAHO CODE.
3. THE USE OF WATER FOR IRRIGATION UNDER THIS RIGHT MAY BEGIN AS EARLY AS MARCH 15 AND MAY CONTINUE TO AS LATE AS NOVEMBER 15, PROVIDED OTHER ELEMENTS OF THE RIGHT ARE NOT EXCEEDED. THE USE OF WATER BEFORE APRIL 1 AND AFTER NOVEMBER 1 UNDER THIS REMARK IS SUBORDINATE TO ALL WATER RIGHTS HAVING NO SUBORDINATED EARLY OR LATE IRRIGATION USE AND A PRIORITY DATE EARLIER THAN THE DATE A PARTIAL DECREE IS ENTERED FOR THIS RIGHT.

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

Page 6

Documentation of Ownership of the Current Place of Use

Agreement for transfer of water rights

Is this property subject to any liens, deeds of trust, mortgages, or contracts or other encumbrances?

NO

Describe the affect on the current place of use for this water right if the place of use is changed pursuant to this transfer

Land was sold without this portion (37-7385A) of the original water right in 1999. Currently this water right has not been used since the 1999 sale and does not have a place of use.

To your knowledge, has any portion of the water right undergone a period of five(5) or more consecutive years of non-use?

NO

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

Transfer No. 70087
 Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
 APPLICATION FOR TRANSFER OF WATER RIGHT
 PART 3A**

Proposed Water Right No. 37-7003

Priority Date: 08/10/1967
 Origin: Adjudication Claim
 Basis: License
 Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
MUNICIPAL	01/01 12/31	0.13 CFS	7.2 AFA	
	Total Diversion	0.13 CFS	7.2 AFA	

Source and Point(s) of Diversion:

<u>Source</u>	<u>Twp</u>	<u>Range</u>	<u>Section</u>	<u>1/4 of 1/4 of 1/4</u>	<u>Lot</u>	<u>County</u>
GROUND WATER	05S	12E	31	NWSESE		GOODING
GROUND WATER	06S	12E	6	NENWNE	2	GOODING

Describe the proposed diversion system

Point of Diversion # 1 NEW WELL TO BE DRILLED
 Point of Diversion # 2 EXISTING WELL AND PUMP.

PLACE OF USE: MUNICIPAL

<u>Twp</u>	<u>Rge</u>	<u>Sec</u>	<u>NE</u>				<u>NW</u>				<u>SW</u>				<u>SE</u>				<u>Totals</u>			
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>				
05S	12E	31																X	X	X	X	
06S	12E	6	X	X																		
			L 1	L 2																		

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 FEB 25 2003

SCANNED
 JAN 27 2003

Transfer No. 70087

Receipt No. _____

**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3A**

Proposed Water Right No. 37-7385A

Priority Date: 09/20/1974

Origin: Adjudication Claim

Basis: License

Status: Active

Source: GROUND WATER

<u>Beneficial Use</u>	<u>From To</u>	<u>Diversion Rate</u>	<u>Volume</u>	<u>Subuse Code</u>
MUNICIPAL	01/01 12/31	0.22 CFS	44.0 AFA	
	Total Diversion	0.22 CFS	44.0 AFA	

Source and Point(s) of Diversion:

<u>Source</u>	<u>Twp</u>	<u>Range</u>	<u>Section</u>	<u>1/4 of 1/4 of 1/4</u>	<u>Lot</u>	<u>County</u>
GROUND WATER	05S	12E	31	NWSESE		GOODING
GROUND WATER	06S	12E	6	NENWNE	2	GOODING

Describe the proposed diversion system

Point of Diversion # 1 NEW WELL TO BE DRILLED

Point of Diversion # 2 EXISTING WELL AND PUMP.

PLACE OF USE: MUNICIPAL

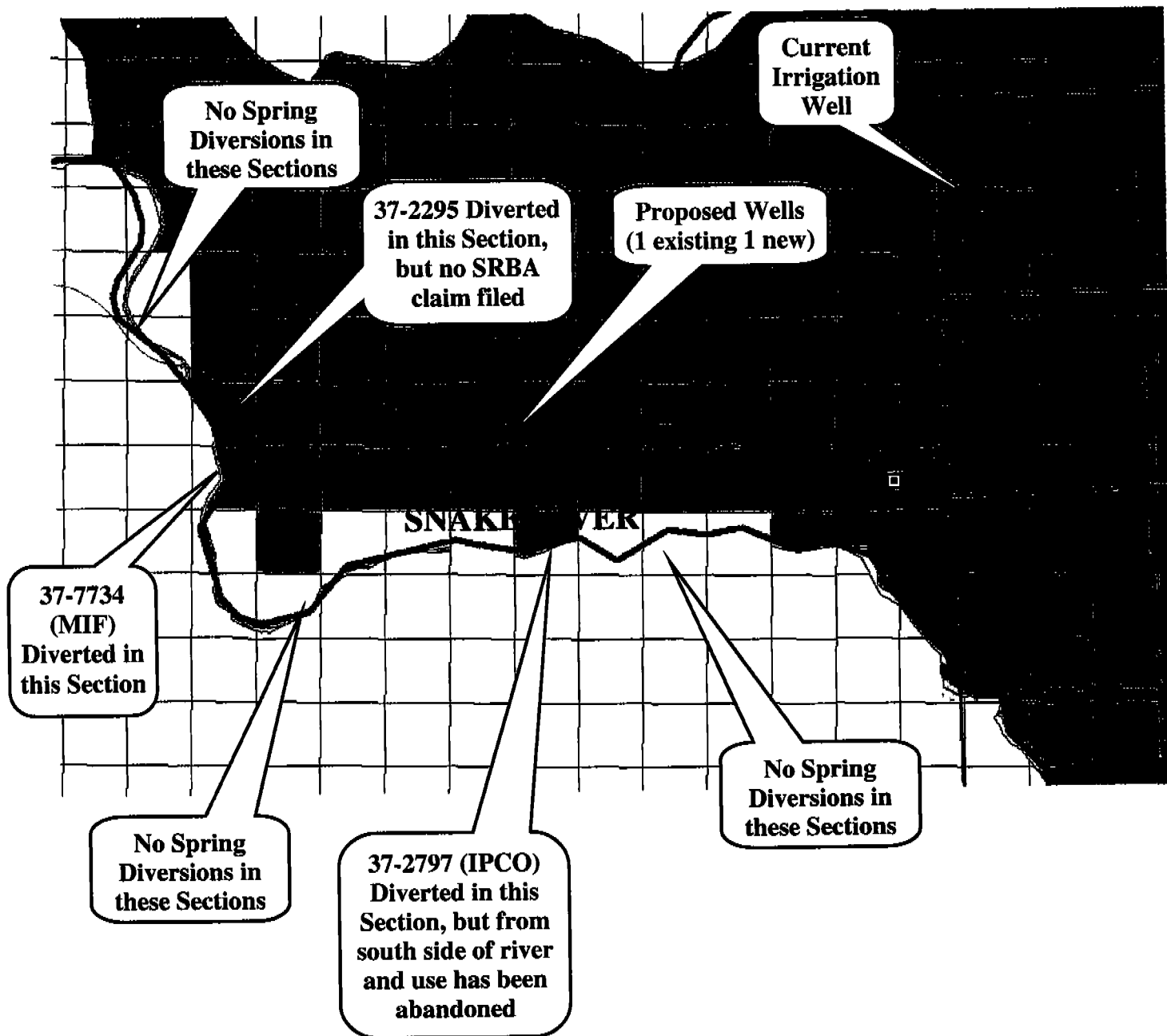
Twp Rge Sec	NE				NW				SW				SE				Totals
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05S 12E 31													X	X	X	X	
06S 12E 6	X	X															
	L1	L2															

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FEB 25 2003

SCANNED

JAN 27 2003



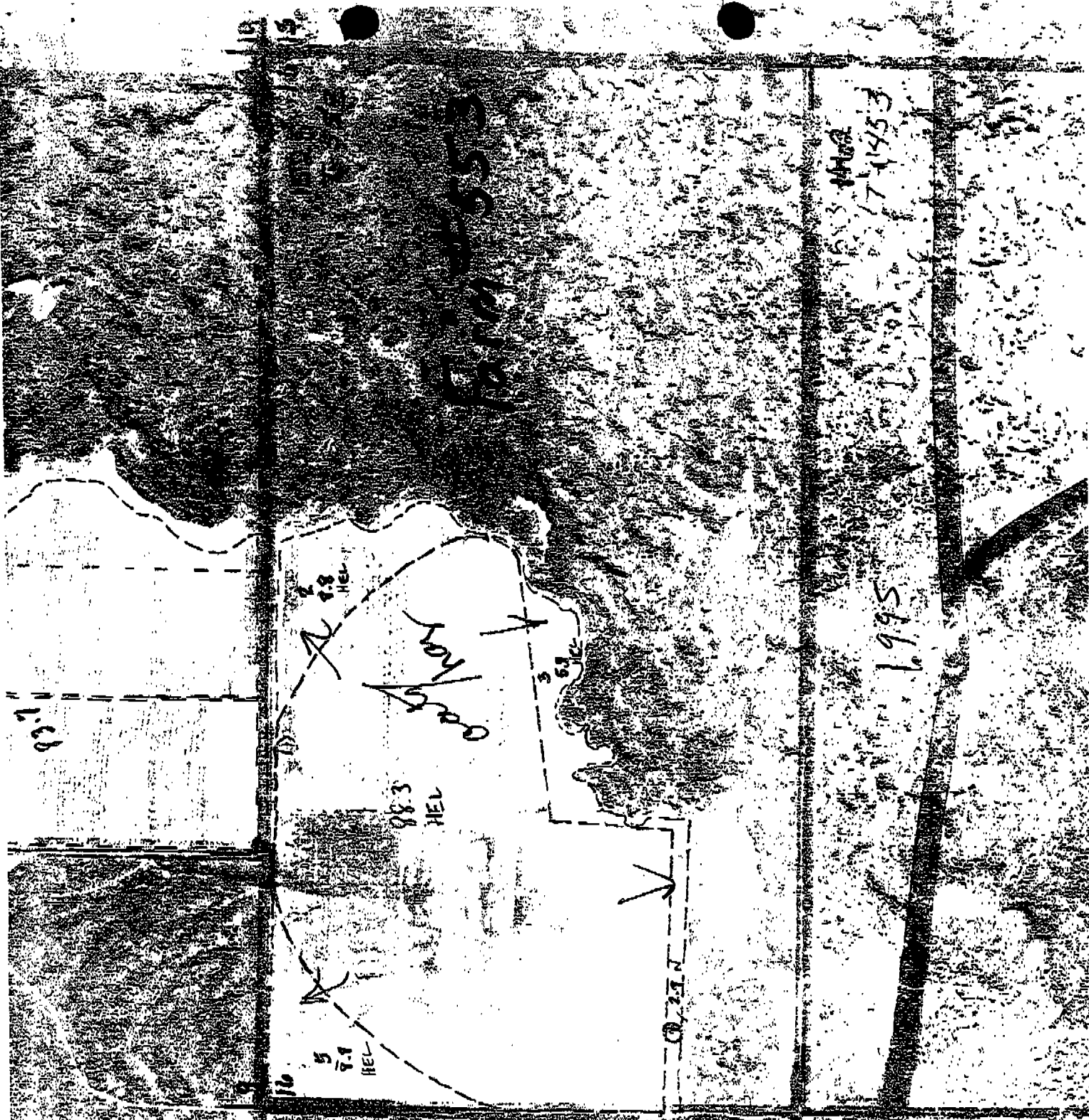
MICROFILMED
FEB 25 2003

SCANNED
JAN 27 2003

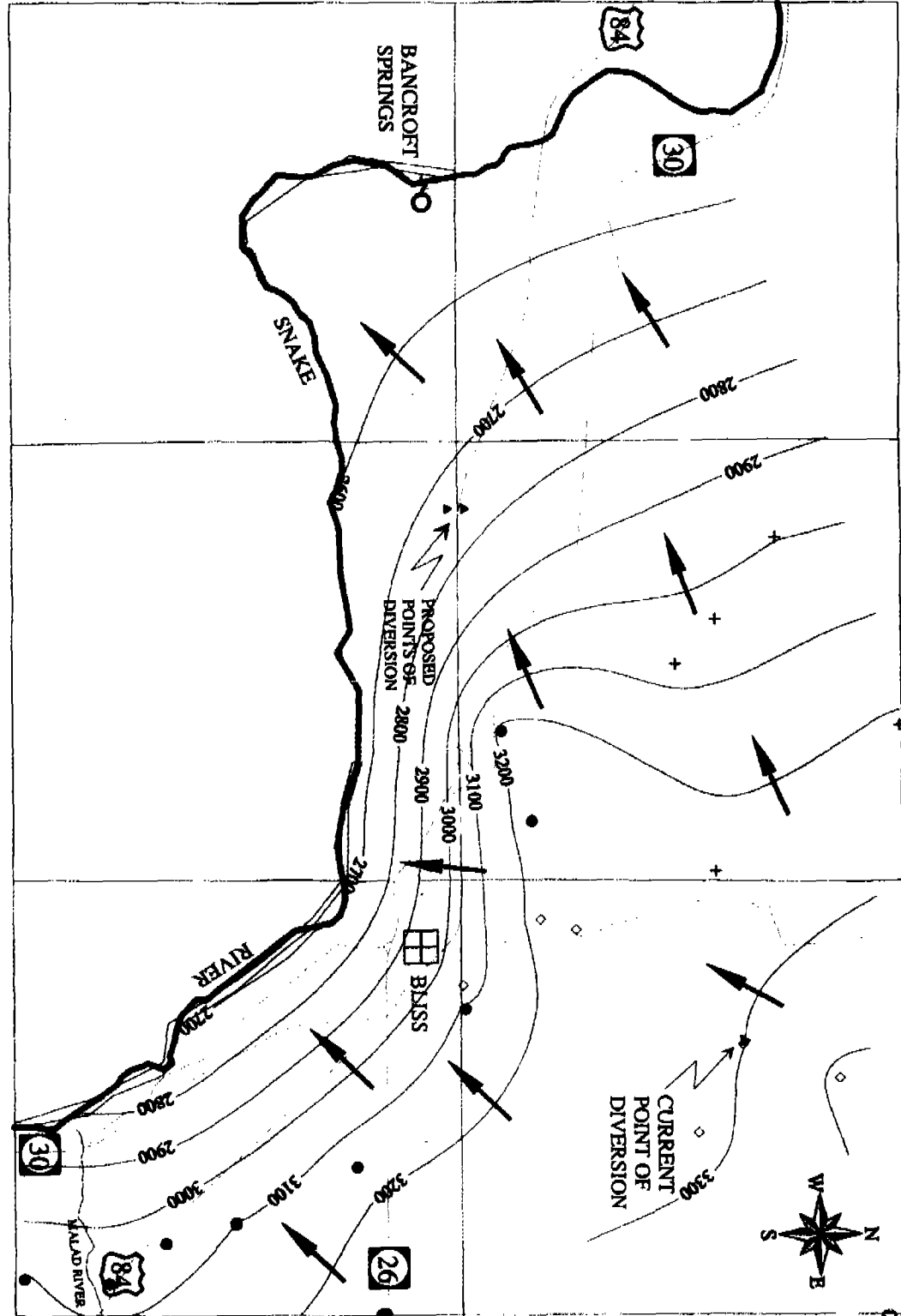
SCANNED
JAN 27 2003

MICROFILM

FEB 25 2003



GROUND WATER ELEVATIONS AND FLOW DIRECTIONS



SCANNED
JAN 27 2003

MICRONALM-C

FEB 25 2003

11E

12E

13E

5S

6S

- SPRING 2002
- + SPRING 1987
- ◇ SPRING 1929

BASED ON 33 WELL MEASUREMENTS

GENERALIZED FLOW DIRECTION

CONTOUR INTERVAL: 100 ft.

T5S, R12E B.M.

LOT 3
SEC 31
NE⁴ SW⁴
SEC 31

SW⁴ SE⁴
SEC 31

SE⁴ SE⁴
SEC 31

SW⁴ SW⁴
SEC 32

SE⁴ SW⁴
SEC 32

LOT 4
SEC 31

SE⁴ SW⁴
SEC 31

T5S, R12E
T6S, R12E

Survey Control				Description	
Point No.	Northing	Easting	Elevation		
CP1	142148.6550	41657.2399	936.680	Set Stainless Steel Spike With Washer	
CP2	141852.1010	412252.1741	940.566	Set Stainless Steel Spike With Washer	
CP3	141840.3488	412356.4147	940.870	Set Stainless Steel Spike With Washer	
CP4	141786.6168	412510.1158	942.774	Set Stainless Steel Spike With Washer	
CP5	141753.4441	412712.4643	945.215	Set Stainless Steel Spike With Washer	
CP6	141728.3983	413291.6767	949.889	Set Stainless Steel Spike With Washer	
CP7	141720.7794	413694.2955	954.764	Set Stainless Steel Spike With Washer	
CP8	141810.3205	413439.7232	950.044	Set Stainless Steel Spike With Washer	
CP9	141811.0005	413246.9027	949.316	Set Stainless Steel Spike With Washer	
CP10	141874.3645	412801.3842	942.416	Set Stainless Steel Spike With Washer	
CP11	141973.9466	412474.7078	940.228	Set Stainless Steel Spike With Washer	
CP12	142013.7310	412370.7923	939.743	Set Stainless Steel Spike With Washer	
CP13	142058.0984	412050.4856	936.035	Set Stainless Steel Spike With Washer	
CP14	142226.1927	411675.3569	935.027	Set Stainless Steel Spike With Washer	
CP15	141662.9056	412506.5073	939.801	Found R/W Monument	
CP16	141705.4030	412350.5520	937.929	Found R/W Monument	
CP17	142039.7420	412263.0520	936.905	Found R/W Monument	
CP18	142132.0440	412416.1550	938.539	Found R/W Monument	
CP19	142099.3110	412525.9160	938.557	Found R/W Monument	

MICROFILMED

FEB 23 2003

REVISIONS		DESIGNED	TODD JOHNSON
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DESIGNED	TODD JOHNSON
DESIGN CHECKED	TODD JOHNSON
DETAILED	LISA ETZEL
DRAWING CHECKED	TODD JOHNSON

IDAHO
TRANSPORTATION
DEPARTMENT



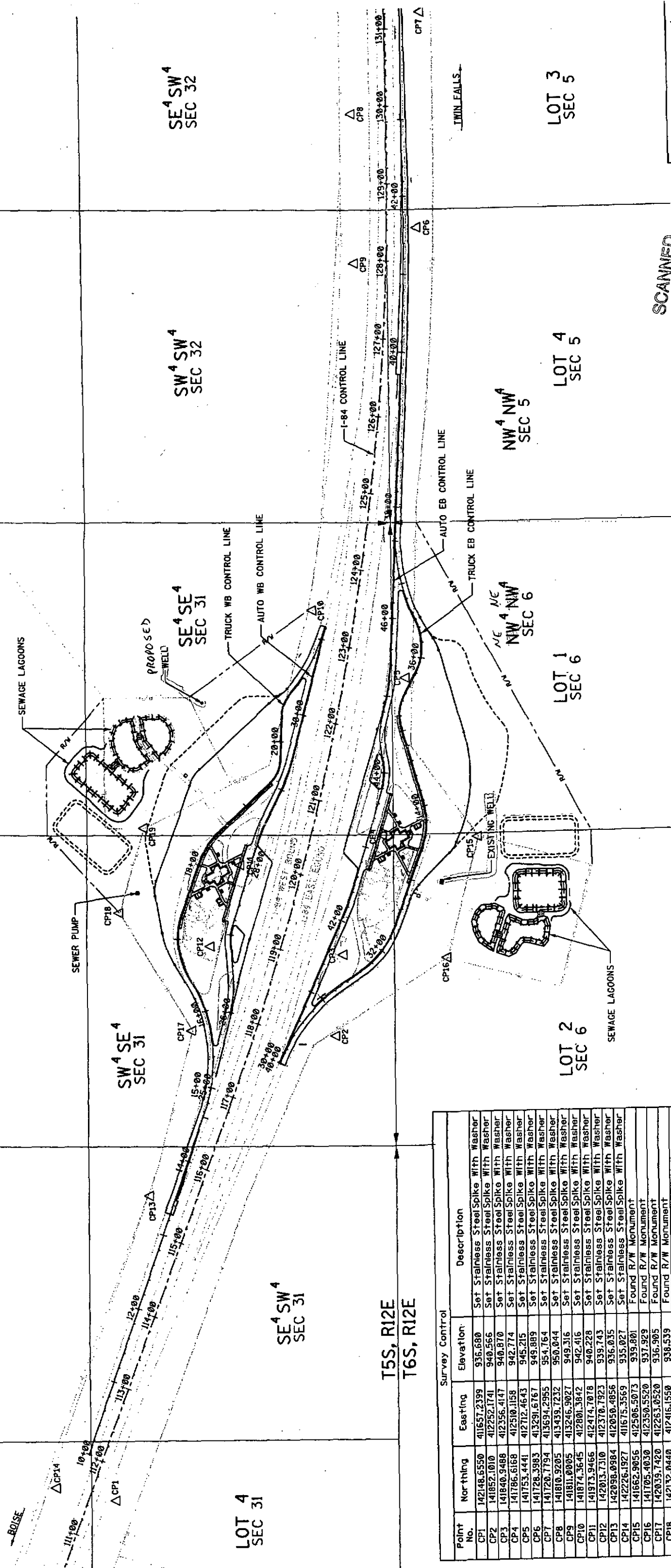
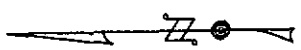
PROJECT NO.
IM-84-3(032)133

BLISS REST AREA
I-84

metric
COUNTY GOODING
KEY NUMBER 3711
SHEET 4 OF 15

SCANNED
JAN 27 2003

PRELIMINARY
NOT FOR CONSTRUCTION
APPROVED FOR ORIGINAL
CONSTRUCTION



BUREAU OF LAND MANAGEMENT
IDAHO TRANSPORTATION DEPARTMENT
PROJECT No. IM-84-3(032)133

EXHIBIT "A"

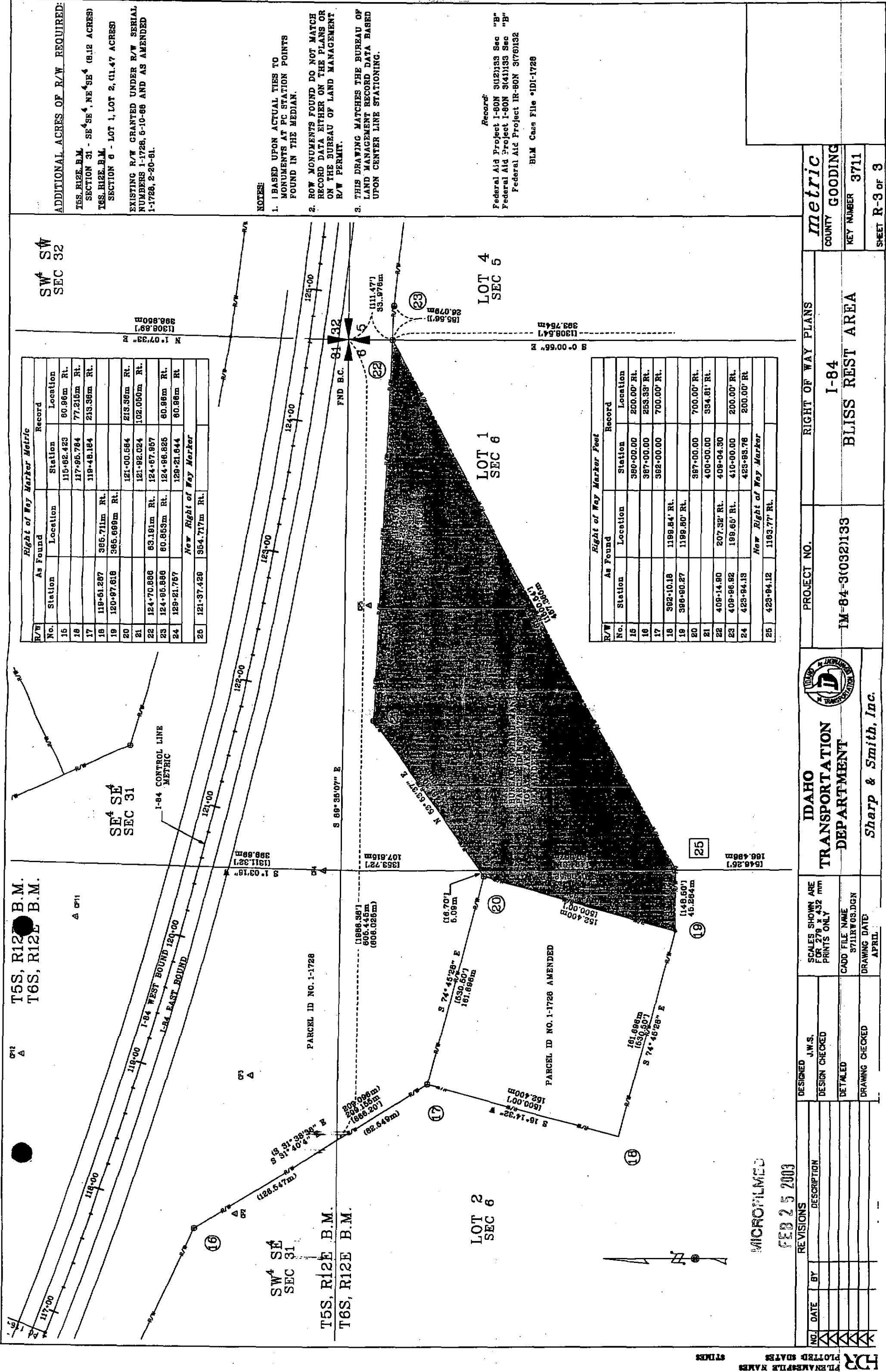
MAP SHOWING
RIGHT OF WAY ON
U.S. GOVERNMENT LAND IN
GOODING COUNTY
IDAHO

TOTAL ACREAGE OF RIGHT-OF-WAY REQUIRED
ON U.S. GOVERNMENT LAND..... 7.928 ha/19.590 Ac.
RIGHT-OF-WAY LINE..... R/W
RIGHT-OF-WAY REQUIRED..... 7.928ha/19.590 Ac.

MICROFILMED

FEB 25 2003

NO.		DATE	BY	REVISIONS		DESIGNED		J.W.S.		SCALES SHOWN ARE FOR 279 x 432 mm PRINTS ONLY		IDAHO TRANSPORTATION DEPARTMENT		PROJECT NO.		RIGHT OF WAY PLANS		metric	
						DESIGN CHECKED								IM-84-3(032)133		I-84		COUNTY GOODING	
						DETAILED				CADD FILE NAME 3711RW01.DGN						BLISS REST AREA		KEY NUMBER 3711	
						DRAWING CHECKED				DRAWING DATE APRIL		Sharp & Smith, Inc.						SHEET R-1 of 3	



ADDITIONAL ACRES OF R/W REQUIRED:
T5S, R12E, B.M.
SECTION 31 - SE SE 1/4, NE SE 1/4 (8.12 ACRES)
T6S, R12E, B.M.
SECTION 6 - LOT 1, LOT 2, (11.47 ACRES)
EXISTING R/W GRANTED UNDER R/W SERIAL NUMBERS 1-1728, 6-10-88 AND AS AMENDED 1-1728, 2-20-81.

- NOTES:
1. BASED UPON ACTUAL TIES TO MONUMENTS AT PC STATION POINTS FOUND IN THE MEDIAN.
 2. ROW MONUMENTS FOUND DO NOT MATCH RECORD DATA EITHER ON THE PLANS OR ON THE BUREAU OF LAND MANAGEMENT R/W PERMIT.
 3. THIS DRAWING MATCHES THE BUREAU OF LAND MANAGEMENT RECORD DATA BASED UPON CENTER LINE STATIONING.

Record:
Federal Aid Project 1-80N 3(4)133 Sec "B"
Federal Aid Project 1-80N 3(4)133 Sec "B"
Federal Aid Project 1R-80N 3(76)132
BLM Case File #DI-1728

Right of Way Marker Metric			
R/W	As Found	Record	
No.	Station	Location	Station
16			115+62.423
17			117+85.784
18			119+48.184
19	119+51.287	385.71m Rt.	
20	120+97.618	385.690m Rt.	
21			121+00.564
22	124+70.886	53.18m Rt.	124+67.987
23	124+85.886	60.853m Rt.	124+86.826
24	129+21.767		129+21.844
New Right of Way Marker			
25	121+37.428	354.717m Rt.	

Right of Way Marker Feet			
R/W	As Found	Record	
No.	Station	Location	Station
16			380+00.00
17			387+00.00
18			382+00.00
19	382+10.18	1198.84' Rt.	
20	386+80.27	1199.80' Rt.	
21			387+00.00
22	408+14.80	207.32' Rt.	408+04.30
23	408+98.92	198.65' Rt.	410+00.00
24	423+94.13		423+83.78
New Right of Way Marker			
25	423+94.12	1183.77' Rt.	

DESIGNED J.W.S.		IDaho		PROJECT NO.		RIGHT OF WAY PLANS		metric	
DESIGN CHECKED		TRANSPORTATION		IM-84-3(032)133		I-84		COUNTY GOODING	
DETAILED		DEPARTMENT				BLISS REST AREA		KEY NUMBER 3711	
DRAWING CHECKED		Sharp & Smith, Inc.						SHEET R-3 of 3	
CADD FILE NAME 3711R703.DGN		SCALES SHOWN ARE FOR 278 x 332 mm PRINTS ONLY							
DRAWING DATE APRIL									

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FEB 25 2003

T5S, R12E, B.M.

Right of Way Marker Foot				
R/W	As Found		Record	
	Station	Location	Station	Location
1			380+00.00	200.00' Lt.
2			385+98.99	255.16' Lt.
3	389+96.92	701.61' Lt.	390+00.00	700.00' Lt.
4	393+97.14	700.98' Lt.	393+99.9	700.00' Lt.
5	393+48.94	659.73' Lt.		
6	399+28.52	897.21' Lt.		
7	400+15.34	642.61' Lt.		
8	398+79.27	381.69' Lt.		
9	397+95.94	241.88' Lt.	398+00.00	242.00' Lt.
10	404+83.54	198.30' Lt.	405+00.00	200.00' Lt.
11			408+84.43	200.00' Lt.
12			423+83.76	200.00' Lt.
New Right of Way Marker				
13	392+48.24	1091.18' Lt.		
14	395+88.76	1165.58' Lt.		

SE⁴ SEC 31

1. BASED UPON ACTUAL TIES TO MONUMENTS AT PC STATION POINTS FOUND IN THE MEDIAN.

2. ROW MONUMENTS FOUND DO NOT MATCH RECORD DATA EITHER ON THE PLANS OR ON THE BUREAU OF LAND MANAGEMENT R/W PERMIT.

3. THIS DRAWING MATCHES THE BUREAU OF LAND MANAGEMENT RECORD DATA BASED UPON CENTER LINE STATIONING.

Federal Aid Project I-80N 3(12)133 Sec
Federal Aid Project I-80N 3(41)133 Sec
Federal Aid Project IR-80N 3(76)132

BIRMINGHAM CASE FILE • IDI-1728

REC-2500T5S, R12E
REC-2500T6S, R12E

 DESCRIPTION |

DESIGN CHECKED

DRAWING CHECKED

CADD FILE NAME

DRAWING DATE:

Sharn & Smith Inc.

IM-84-3(032)133

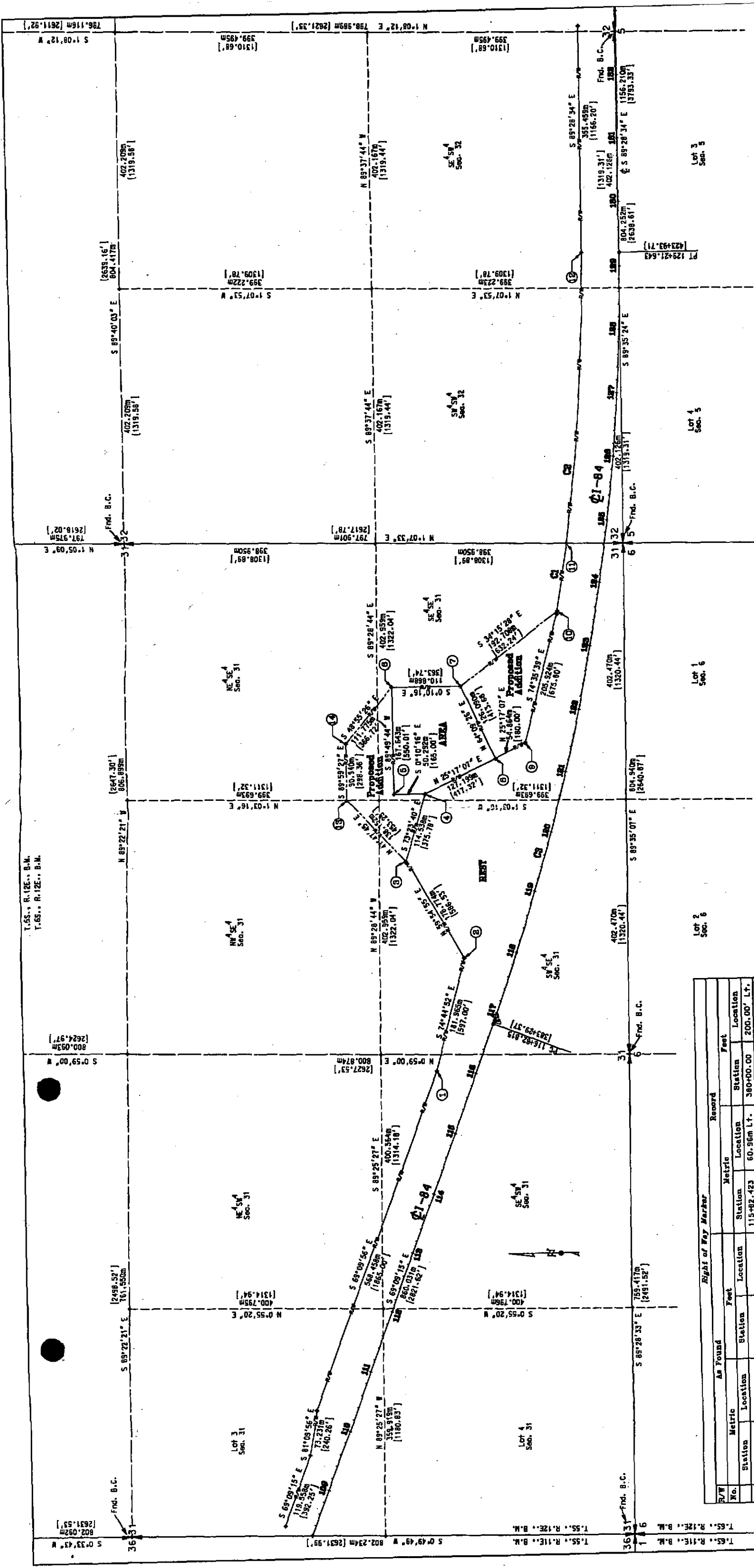
I-84

BLISS REST AREA

COUNTY GOODING

KEY NUMBER	3711
------------	------

SECRET R-2 of 3



Curve Table					
	Bearing	Chord length	Radius	Arc length	Tangent
CI	S 81°00'44"E	114.214m	3431.797m	114.215m	87.115m
CI	S 81°00'44"E	(374.72')	11259.14'	374.72'	187.38'
CS	S 85°39'02"E	457.636m	3431.797m	457.956m	299.358m
CS	S 85°39'02"E	1501.43'	11259.14'	1502.48'	982.04'
CS	S 79°18'54"E	1232.345m	3492.757m	1238.828m	825.980m
CS	S 79°18'54"E	4043.11'	11459.14'	4064.38'	2053.77'

Right of Way Marker					
P/W No.	As Found		Record		
	Station	Location	Station	Location	Station
1	115+82.423	60.96m Lt.	380+00.00	200.00' Lt.	
2	117+45.300	77.773m Lt.	385+89.99	255.16' Lt.	
3	118+47.224	213.36m Lt.	390+00.00	700.00' Lt.	
4	120+08.272	213.633m Lt.	393+99.9	700.00' Lt.	
5	119+83.581	262.046m Lt.			
6	121+70.237	303.950m Lt.			
7	121+96.700	195.837m Lt.			
8	120+84.266	116.309m Lt.			
9	121+29.827	73.725m Lt.			
10	123+35.408	60.747m Lt.			
11	124+55.652				
12	129+21.766				
13	119+62.888	332.587m Lt.	392+48.24	1091.16' Lt.	
14	120+60.988	395.288m Lt.	395+68.78	1165.58' Lt.	

NO. DATE BY DESCRIPTION		DESIGNED J.W.S.		IDaho TRANSPORTATION DEPARTMENT		PROJECT NO.		COUNTY GOODING	
MICROFILMED		DESIGN CHECKED		IM-84-3(032)133		I-84		KEY NUMBER 3711	
DRAWING CHECKED		DETAILED		Sharp & Smith, Inc.		BLISS REST AREA		SHEET 1 OF 2	
DRAWING DATE: APRIL 2008		CADD FILE NAME		SCALES SHOWN ARE FOR 278 x 432 mm PRINTS ONLY		ORIGINAL STORED AT: 110.			

MAP FOR TRANSFER # 70087 - WR'S 37-7003² & 37-7385A

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008



WHEREAS, the Department of Interior, acting by and through the Bureau of Land Management, has agreed to the transfer by the DEPARTMENT of an easement over the land to the STATE;

NOW THEREFORE, the DEPARTMENT, as authorized by law, does hereby grant to the STATE an easement for a right-of-way for the operation and maintenance of a highway and use of the space above and below the established grade line of the highway pavement for highway purposes on, over, across, in, and upon the following described land of the United States:

Township 5 South, Range 12 East, being a portion of the SE $\frac{1}{4}$ in Section 31 (8.17 acres), Boise Meridian and in Township 6 South, Range 12 East, being a portion of Lot 1 and 2 in Section 6, Boise Meridian, Gooding County, Idaho: as shown on **Exhibit A**, attached hereto and made a part hereof, subject, however, to the following terms, conditions, and covenants:

1. If outstanding valid claims exist on the date of this use authorization, the STATE shall obtain such permission as may be necessary on account of any such claims.
2. The use right herein authorized shall terminate 10 years, or sooner if agreed upon, from the date of execution of the transfer document by the DEPARTMENT to the STATE in the event construction of the highway has not been

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Page 2-

FEB 25 2003

RECORD AT THE REQUEST OF THE STATE OF IDAHO
FEE EXEMPT - I.C. 67-2301

SCANNED

JAN 27 2003

Instrument # 186361

GOODING, GOODING, IDAHO

2002-04-08 04:38:15 No. of Pages: 13

Recorded for : IDAHO TRANSPORTATION DEPARTMENT

Fee: 0.00

HELEN BOWMAN
Ex-Officio Recorder Deputy

H. Hill

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

initiated during such period.

3. The use right herein authorized is limited to the described right-of-way and the space above and below for highway purposes and does not include any use rights for non-highway purposes.
4. Retention of rights by the Bureau of Land Management to use, or authorize use on, any portion of the right-of-way for non-highway purposes provided such use would not interfere with the free flow of traffic, impair the full use and safety of the highway, or be inconsistent with the provisions of Title 23 of the United States Code and the regulations pursuant thereto, and the DEPARTMENT and the State agency concerned shall be consulted prior to exercising such rights.
5. Location by the Bureau of Land Management of any Bureau information signs on the portions of the right-of-way outside of construction clearing limits except that such signs shall not be located on the right-of-way of an Interstate System.
6. Consistent with highway safety standards, the STATE agency shall:
 - a. Protect and preserve soil and vegetative cover and scenic and esthetic values on the right-of-way

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

outside of construction limits.

- b. During construction activity, emergency erosion control material (straw bales, fiber erosion mats, filter cloth/sediment fences) will be available for the installation of sediment traps if such is needed from a catastrophic rain. If erosion control mitigation is not fully in place prior to completion of daily work, all areas that have potential to erode and contribute sediment to live waters will have sediment traps in place (straw bale traps, sediment fences, mulch) to prevent erosion/sediment reaching live waters.
- c. All disturbed soil/vegetation areas should be seeded, fertilized, and mulched immediately after construction activity is completed. If practical seeding and mulching should take place the day of the disturbance, and if warranted re-seeded during more favorable conditions.

7. No sites for highway operation and maintenance facilities, camps, supply depots, or disposal areas within the right-of-way may be established without obtaining approval of the Bureau of Land Management authorized officer.

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HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

8. Application of chemicals shall be pursuant to the National Environment Policy Act and shall be approved by the DEPARTMENT prior to application by the STATE.
9. The provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 242) shall be complied with.
10. The holder(s) shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder(s) shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et seq.) With regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer

Page 5

RECORD AT THE REQUEST OF THE STATE OF IDAHO
FEE EXEMPT - I.C. 67-2301

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FEB 25 2003

SCANNED

JAN 27 2003

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

concurrent with the filing of the reports to the involved Federal agency or State government.

11. The holder of Right-of-Way No. IDI- 1728 agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601 et seq. or the Resource Conservation and Recovery Act of 1976, 42 U.S.C. 6901 et seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holders activity on the right-of-way.) This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
12. The STATE, in consideration of the grant of this easement, does hereby covenant and agree as a covenant running with the land for itself, its successors and assigns that:
 - a. No person shall, on the grounds of race, color, sex, age, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination with regard to

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FEB 25 2003

SCANNED
JAN 27 2003

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

any facility located wholly or in part on, over or under such lands hereby conveyed;

- b. The STATE shall use said easement right-of-way so conveyed, in compliance with all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in federally assisted programs of the Department of Transportation, effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.

13. When need for the easement herein granted shall no longer exist, the STATE shall give notice of that fact to the Secretary of Transportation and the rights herein granted shall terminate and the land shall immediately revert to the full control of the Department of Interior, Bureau of Land Management.

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JAN 27 2003

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

By



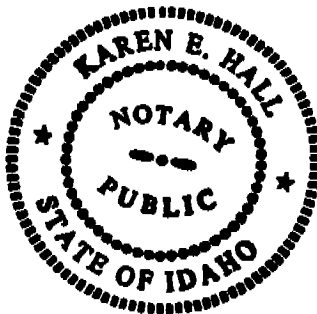
SCOTT FRY
Environment/Right-of-Way Program
Manager

STATE OF ID)
COUNTY OF USA) ss:

I,

Karen E. Hall, a Notary Public in and for
the State of Idaho, do hereby certify that on the 3rd day of
April, 2002, before me personally appeared SCOTT
FRY, Environment/Right-of-Way Program Manager, and acknowledged that
the foregoing instrument bearing date of April 3, 2002,
was executed by him, in his official capacity and by authority in him
vested by law, for the purposes and intents in said instrument
described and set forth, and acknowledged the sum to be his free act
and deed as Environment/Right-of-Way Program Manager, Federal Highway
Administration.

Witness my hand and seal this 3rd day of April, 2002.



Karen E. Hall
Notary Public for _____
Residing at Boise, Idaho
My commission expires 8/10/2005

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FEB 25 2003

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JAN 27 2003

HIGHWAY EASEMENT DEED

Project No. IM-84-3(032)133
Key No. 3711
Parcel No. 1 ID. No. 0042008

In compliance with the conditions set forth in the foregoing deed, STATE certifies, and by the acceptance of this deed, accepts the right-of-way over certain land herein described and agrees for itself, its successors and assigns forever to abide by the conditions set forth in said deed.

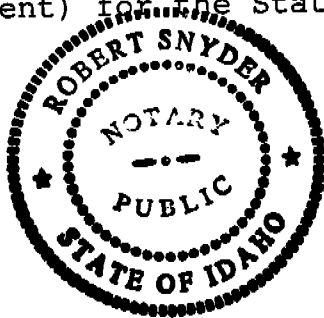
STATE OF IDAHO. Acting by and through
the Idaho Transportation Board

By: Steven C. Hutchinson
STEVEN C. HUTCHINSON, Assistant
Chief Engineer (Development)

STATE OF Idaho)
County of Ada) ss.

On this 30th day of July, 2002, before me, the undersigned, a Notary Public in and for said State, personally appeared STEVEN C. HUTCHINSON, known to me to be the Assistant Chief Engineer (Development) for the State of Idaho, Idaho Transportation Department, by and through the Idaho Transportation Board, and acknowledged to me that he executed as such Assistant Chief Engineer (Development) for the State of Idaho.

(SEAL)



Robert Snyder
Notary Public for Idaho
Residing in Boise Idaho
My commission expires 3-5-08

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FEB 25 2003

SCANNED
JAN 27 2003

AGREEMENT FOR TRANSFER OF WATER RIGHTS

This Agreement is entered into between R Randolph and Laren K. Erkins, 1645 South Clover Creek Road Bliss, Idaho 83314 (hereinafter, "Sellers" and the Idaho Transportation Department, P.O. Box 2A, Shoshone, Idaho 83352 (hereinafter, "Buyer")

The Sellers agree to sell and convey and the Buyer agrees to purchase Eleven (11) miners inches worth of Water Right No. 37-7385A in accordance with the following terms and conditions.

1. The price is \$2,000.00 per miner's inch for a total price of \$22,000.00 payable as follows: \$1,500.00 payable upon the execution of this agreement with the balance payable at closing as setout below.

2. The sale of this water right is contingent upon approval of the transfer to the Buyer for use at the Buyer's Bliss Rest Area by the Idaho Department of Water Resources (IDWR). Should the Buyer be unable to secure the required approval this agreement shall become void and Buyer shall execute any document that may be necessary for re-conveyance to Seller.

3. It shall be the responsibility of the Buyer secure approval of IDWR for the transfer, including payment of all permit fees and other costs. Seller agrees to cooperate and use their best efforts to assist in the approval process including the execution of applications or any other documents necessary for approval.

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JAN 27 2003

4. Closing shall take place at a mutually agreeable date and time, no later than 30 days from the receipt of approval of the application of transfer. Closing shall take place at the Idaho Transportation Department's District Office, 216 Date Street, Shoshone, Idaho. Upon delivery by the Seller to the Buyer of a properly executed assignment of water rights as specified herein, the Buyer will deliver a state warrant (check) for the balance of the purchase price.

IN WITNESS WHEREOF, the Parties have executed this transfer agreement on the dates subscribed below.

SELLERS:

F. Randolph E. Kerns

Loren L. Ekin

Date: 7/22/02

BUYER:

[Signature]
Idaho Transportation Department
District Engineer

Date: 7/22/02

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FEB 25 2003

SCANNED
JAN 27 2003

IN THE DISTRICT COURT OF THE FIFTH JUDICIAL DISTRICT OF THE
STATE OF IDAHO, IN AND FOR THE COUNTY OF TWIN FALLS

In Re SRBA)
)
Case No. 39576)
)
PARTIAL DECREE PURSUANT TO
I.R.C.P. 54(b) FOR
Water Right 37-07003

NAME AND ADDRESS: DEPT OF TRANSPORTATION
DIVISION OF HWYS
PO BOX 7129
BOISE, ID 83707

SOURCE: GROUND WATER

QUANTITY: 0.13 CFS
7.20 AFY

PRIORITY DATE: 08/10/1967

POINT OF DIVERSION: T06S R12E S06 LOT 2 (NENWNE) Within Gooding County

PURPOSE AND PERIOD OF USE:	PURPOSE OF USE	PERIOD OF USE	QUANTITY
	Domestic	01-01 TO 12-31	0.13 CFS 7.20 AFY

DOMESTIC USE AT THE BLISS REST AREA.

PLACE OF USE: Domestic Within Gooding County
T05S R12E S31 SWSE SESE
T06S R12E S06 LOT 1 (NENE) LOT 2 (NWNE)

OTHER PROVISIONS NECESSARY FOR DEFINITION OR ADMINISTRATION OF THIS WATER RIGHT:

THIS PARTIAL DECREE IS SUBJECT TO SUCH GENERAL PROVISIONS
NECESSARY FOR THE DEFINITION OF THE RIGHTS OR FOR THE EFFICIENT
ADMINISTRATION OF THE WATER RIGHTS AS MAY BE ULTIMATELY
DETERMINED BY THE COURT AT A POINT IN TIME NO LATER THAN THE
ENTRY OF A FINAL UNIFIED DECREE. I.C. SECTION 42-1412(6).

RULE 54(b) CERTIFICATE

With respect to the issues determined by the above judgment or order, it is hereby CERTIFIED, in accordance with Rule 54(b), I.R.C.P., that the court has determined that there is no just reason for delay of the entry of a final judgment and that the court has and does hereby direct that the above judgment or order shall be a final judgment upon which execution may issue and an appeal may be taken as provided by the Idaho Appellate Rules.

Roger Burdick

Roger Burdick
Presiding Judge of the
Snake River Basin Adjudication

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FEB 25 2003



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, P.O. Box 83720, Boise, Idaho 83720-0098

Phone: (208) 327-7900 FAX: (208) 327-7866

FAX TRANSMITTAL COVER SHEET

DIRK KEMPTHORNE
GOVERNOR

KARL J. DREHER
DIRECTOR

DATE: _____

TO: Chuck Chapman
1-208-886-7895

FROM: Karl J. Dreher
IDWR

DOCUMENT
DESCRIPTION: _____

Transfer # 70087

* TRANSACTION REPORT P. 01 *
* FEB-04-03 TUE 10:52 AM *
* DATE START RECEIVER TX TIME PAGES TYPE NOTE M# *
* FEB-04 10:49 AM 912088867895---80935 2'28" 7 SEND OK *

COVER SHEET + 6 PAGES

PLEASE CONTACT Karl J. Dreher IF YOU DON'T RECEIVE THIS
ENTIRE DOCUMENT

327-7941

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FEB 25 2003



State of Idaho

DEPARTMENT OF WATER RESOURCES

1301 North Orchard Street, Boise, ID 83706 - P.O. Box 83720, Boise, ID 83720-0098
Phone: (208) 327-7900 Fax: (208) 327-7866 Web Site: www.idwr.state.id.us

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

February 4, 2003

STATE OF IDAHO
DEPT OF TRANSPORTATION
DIVISION OF HWYS
PO BOX 7129
BOISE ID 83707

RE: Transfer No.: 70087 - Water Rights 37-7003, 37-7385A, 37-20852/53
Transfer Approval Notice

Dear Water Right Holder(s):

The Department of Water Resources has issued the enclosed approved Transfer of Water Right(s). Please be sure to thoroughly review the conditions of approval and remarks listed on the approval document.

The Transfer of Water Right(s) is a PRELIMINARY ORDER issued by the Department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action by the Department unless the APPLICANT petitions for reconsideration or files an exception and/or brief within fourteen (14) days of the service date as described in the enclosed information sheet.

ANY PERSON aggrieved by any decision, determination, order or action of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Department and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

Please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Failure to report these changes could result in a \$100 late filing fee. Contact any office of the Department or visit the Department's homepage on the Internet to obtain the proper forms and instructions.

If you have any questions, please contact me at 208-327-7940.

Sincerely,

for Jeff Peppersack, Manager
Water Rights Permits Section

JP:klt
Enclosure(s)

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FEB 25 2003

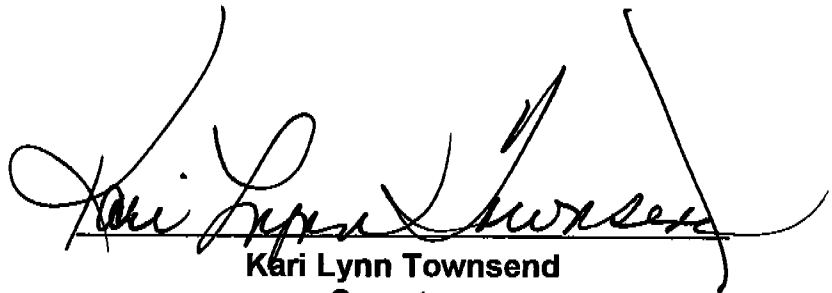
CERTIFICATE OF SERVICE

I hereby certify that on February 4, 2003 I mailed a true and correct copy, postage prepaid, of the foregoing TRANSFER APPROVAL to the person(s) listed below:

RE: TRANSFER NO. 70087

WATER RIGHTS 37-7003, 37-7385A, 37-20852, 37-20853

**STATE OF IDAHO
DEPT OF TRANSPORTATION
DIVISION OF HWYS
PO BOX 7129
BOISE ID 83707**



**Kari Lynn Townsend
Secretary**

MICROFILMED

FEB 25 2003

**EXPLANATORY INFORMATION
TO ACCOMPANY A
PRELIMINARY ORDER**

The accompanying order or approved document is a "Preliminary Order" issued by the department pursuant to section 67-5243, Idaho Code. It can and will become a final order without further action of the Department of Water Resources (department) unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the department or the Idaho Water Resource Board (Board) is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

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FEB 25 2003

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its issuance if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) the petition for reconsideration is disposed of; or
- (b) the petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

MEMORANDUM

January 7, 2003

To: Jeff Peppersack
Through: Garth Newton
From: Shane Bendixsen
Subject: Transfer 70087 - ITD

It is my understanding the Idaho Transportation Department (ITD) proposes to transfer a ground water right from 05S 13E sec 16 to 06S 12E sec 6 and 05S 12E sec 31 for a rest stop along I-84 (see Attached Figure). The following is a brief hydrologic review.

The current point of diversion lies within the ESPA model boundary, but the proposed point of diversion is outside the model boundary and down gradient. Therefore response zones cannot be used to estimate how the reaches of the Snake River will be impacted. It can be assumed though, based on the location and the ground water flow direction (see Attachment) that the Kimberly to King Hill reach is the only reach impacted at the current and proposed points of diversion.

Concern has been about the effect on Bancroft Springs. A current numeric model has not been created for the area. It would take considerable effort to create one and due to lack of data, calibration would be difficult. An analytical model was therefore chosen to merely show the magnitude of the change for the two points of diversion.

Hydraulic conductivity (28 ft/day) and storativity (0.10) values were taken from Garabedian (1992). The licensed rate is 0.22 cfs. It was assumed though that the average rate would probably be two hours per day at the maximum rate or 1,584 gallons per day. Other assumptions are an aquifer of infinite areal extent and the wells fully penetrate the aquifer. While these conditions are not totally met, the results should show the magnitude of the transfer.

At the current point of diversion, draw down at Bancroft Springs is approximated to be 0.004 feet. At the proposed point of diversion, draw down at Bancroft spring is approximated to be 0.050 feet. These draw downs are considered not measurable and well within the error for a model.

Both scenarios assumed steady state conditions. Assuming transient conditions, pumping for one day has no effect on the springs at either sites.

In closing, the four reaches of the Snake River will not be affected. Decreased head values at Bancroft Springs will be negligible if non-existent.

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FEB 25 2003

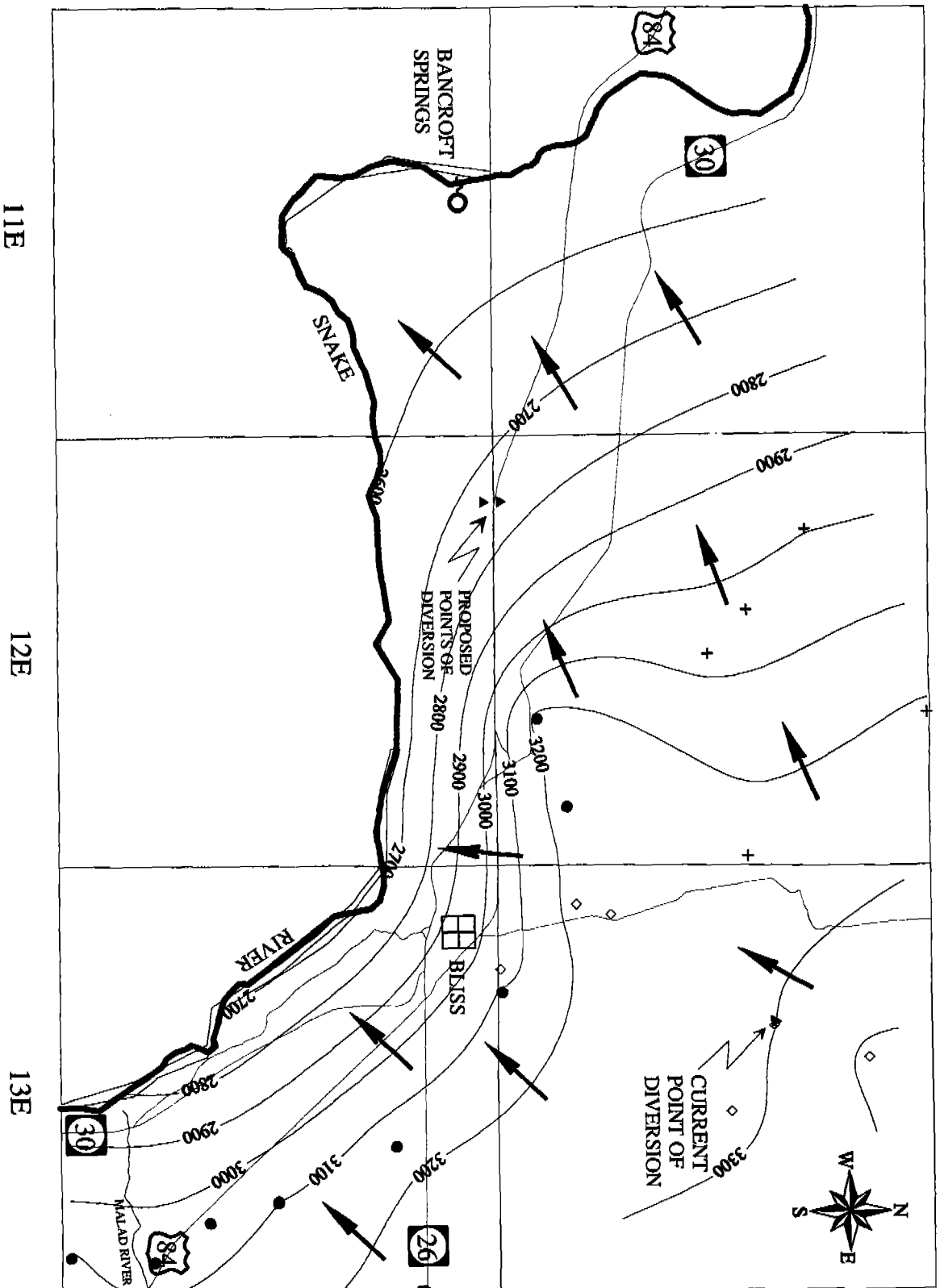
REFERENCES

Garabedian, S.P., Hydrology and Digital Simulation of the Regional Aquifer System,
Easter Snake Plain, Idaho, U.S. Geological Survey Professional Paper 1408-F,
1992.

MICROFILMED

FEB 25 2003

GROUND WATER ELEVATIONS AND FLOW DIRECTIONS



MICROFILMED
FEB 25 2003

CONTOUR INTERVAL: 100 ft.

BASED ON 33 WELL MEASUREMENTS

- SPRING 2002
- + SPRING 1987
- ◇ SPRING 1929

GENERALIZED FLOW DIRECTION

Revd @ S.O.
1-31-03

IDWR TRANSFER ANALYSIS SHEET

APPLICANT

TRANSFER NO.

1. Right number(s)

2. Type of right

Decree ☒ License ☒ Statutory Claim
SRBA Beneficial Use Claim

3. Purpose of transfer

☒ Change P/D ☒ Add P/D ☒ Change P/U
☒ Change N/U ☒ Change Source ☒ Split Right
☒ Other: CHANGE PERIOD OF USE

4. Check Existing Right:

☒ Source ☒ Priority ☒ Amount ☒ Purpose
☒ Period ☒ SRBA Claim
☒ Description of original point(s) of diversion
☒ Description of original place of use
☒ Overlapping rights on original place of use

Comments: NO OVERLAPPING RIGHTS AT ORIGINAL PLACE(S) OF USE. TRANSFER BASED ON SRBA RECOMMENDATIONS FOR BASIN 37 DIRECTOR'S REPORT FOR ESPA.

5. Check Proposed Right for amount of land &/or water transferred:

Also see attached memo for more analysis information

- a. ☒ All of right
- b. ☐ Part of right (NOTE! Part B should be filled in only if part of right is owned by the applicant)
- c. ☒ Description of point(s) of diversion
- d. ☒ Description of place of use
- e. ☒ Map showing P/D & P/U after transfer
- f. ☒ Correct notarized signature and \$100 fee NEED FEE
- g. ☒ Proof of ownership of right &/or land from which water is transferred BUM LEASE AGREEMENT ; AGREEMENT FOR TRANSFER OF WATER RIGHTS
- h. ☒ Expansion in use of right - Comments: NONE APPARENT

70087

i. X Existing rights from same source, on land water is being transferred to; right number(s): _____

NONE

j. X SRBA claim(s) - Comments (NOTE! Approved transfer amends SRBA claim; differences between existing water right and SRBA claim? any ownership or other outstanding issues? Explain) TRANSFER BASED ON SRBA RECOMMENDATIONS

FROM BASIN 37 DIRECTOR'S REPORT.

k. X Comment letters _____ Yes X No
If yes _____ Water District #
_____ Lienholder, others, see #2
_____ below for name and address

INITIAL ALLOCATION REVIEW BY P. SKINNER DATE 8/9/2002
SRBA SUPERVISOR REVIEW BY _____ DATE _____
PUBLICATION REVIEW BY _____ DATE _____

1. Legal Notice electronically sent to DWR03::VAULT _____ Yes

2. COMMENT LETTERS Copy of Pg 1 to AJ ✓ Yes 9/5/02

Watermaster recommendation requested on _____, Received on _____

Other comments letters - send to the following name(s) & address(es):

3. Transfer published correctly? ✓ Yes _____ No

4. Affidavit of publication received? ✓ Yes _____ No

5. Protests received? _____ Yes _____ No; Acknowledgement sent? _____ Yes

6. Copies made for Region file (see attached supplemental page)? _____ Yes

RECOMMENDED ACTION

1. ✓ Approve

2. _____ Deny due to _____

3. Conditions (special conditions in Water Districts) _____

✓ Also see attached memo for recommendation dated: _____

4. By AS Date 1/30/03

70087

FILE PROGRESS SUMMARY

Colorado Dept of Trans WATER

27-7003-27-735A

Keep him advised

FAX 886-7895
Chuck

Carmohan

Qd. Dept of
Transportation

PO Box 2-A
Shoshone ID 83352
886-7823

TRANSFER REVIEW SHEET

Trans # 70087

Date Reviewed 01/9/2003

Right No(s). * 37-7003 37-7385A
 Split? Y XN XY XN Y N Y N Y N Y N Y N

AREA OF CONCERN: No Yes MORATORIUM AREA AND
ESPA
WATER DISTRICT #130

PURPOSE OF TRANSFER FOR EACH RIGHT:
Change p/d Change use period Change p/u
Add p/d Change nature of use

RightID's of From & To records correct? XY N (resolve with S.O.)
 Check for Partial Decree issuance, etc. since time of application's entry

PROOF OF OWNERSHIP COMPLETE FOR OLD & NEW P/U X Lien Holder Release N/A

GROUNDWATER:
DRILLING PERMIT
 All wells -046
 DP upgrade req'd Y N (contact GW)
WMD
≤ 0.24 cfs/5 acres - No MD
> 0.24 cfs/5 acres -067
WMD
≤ 0.24 cfs/5 acres - No MD
> 0.24 cfs/5 acres - 01M or 01Q
SUPPLEMENTAL - 065-104 (where irrigation is the only use)
SUPPLEMENTAL - 100-105 (where there are other uses besides irrigation)

SURFACE WATER:
WD R05 (WD# 130) WM comments rec'd ✓
≤ 0.20 cfs/others - R02, 01P or No MD
> 0.20 cfs - R43
WD, SPRINGS/SINK, INACTIVE WD & REST OF STATE
≤ 0.24 cfs/5 acres - No MD
> 0.24 cfs/5 acres - 01M or 01Q
STANDARD SEASON 3/15 to 11/15 (use X61 if extended season)
STANDARD VOLUME 1 af/ac
CONSUMPTIVE USE VOLUME 3 af/ac FOR 37-20852

WITHIN ESPA - 113-114-116 (mitigation)
-115 (meas. Device)

USES:
STORAGE - 18C-R02-01P-18B-NA
IRR ≤ 5 ac - R66/R67/R68/R69 (0.03 cfs/ac)
> 5 ac - R62/R63/R64/R65 (0.02 cfs/ac)
Volume only - R58/R59/R60/R61
STOCKWATER - R37 (all BLM/USFS)
MINING - 054-106
FISH PROP - 029 (70's basins only)-007-122-106
HEAT/COOL - R07 (injection well)
FIRE PROT. - 077
DAIRY - 082 (zoning if a concern)-106-WD8

USES: SEE BELOW
POWER - 17H-17K (+uses)-025-106
MUNICIPAL
Restricted area - 022-075 RAFN - 007-109-X64
Irr., GW supp to SW - 102
DOMESTIC
Surface water - WB5 (Big Wood or Boise above Star Bridge)
- 27A (Payette River)
>1 in restricted area - 070-071-075 (no parks/common areas, etc)
Irr use listed separate - WB5

MISC CONDITIONS/REMARKS:
T07 - 1 yr to develop
T08 - comply or rescind
T17 - >1 pd, measure all (use w/ WB4)
T18 - Special T17 & R43 combined - multiple pds in WD

Protested - 020-X19
Water Quality - 106-R07

X27 - Number of acres/season in ppu
X35 - Combined totals of multiple rts

X49 - measure p/d's (source chg'd to orig trib)
X51 - 2+ yrs to develop
X53 - Use ltd to orig. source availability
X54 - forfeited ac/rate (used rarely)
X55 - (transfer shrinks total water to less ac)
004 - no right-of-way
X58 - pending claim (statutory or AJ b/u claim)
X61 - extended irr season
X62 - replaces N11 and N13
X63 - replaces C12
WB4 - + p/ds, cfs & afa (used with T17)
WD8 - land application of waste water
01Q - used instead of 01M when there's another meas. Cond (i.e. T17 & 01M)

Apply one to chg'd & unchg'd rts that are subject to SRBA:
T09 - on-going SRBA (no Dir Rpt or Recomm yet)
T19 - replaces C18 (if at Recommendation or Partial Decree stage)

T20 - use only on unchg'd rts not subject to SRBA

OTHER CONDITIONS/REMARKS MUNICIPAL CONDITIONS → 126, 007, 109, 110 AND X64

COMMENTS just for 37-20853 for reasonably anticipated future needs
Database files updated AS **Approval form printed** AS **Shape files created** AS
Special Mailing Instructions (cc's, etc) COPIES TO CHUCK CARNAHAN (ITD) AND RANDOLPH EAKINS
Final database update after approval ***Comment to WR No(s).** NONE - TRANSFER INVOLVES DECREED RIGHTS.

7003

need 27 afa - 7.2 afa = 19.8 afa

delta (for 8 hrs $\Rightarrow$ 3.18 afa)

37-7385 A 0.22 cfs 11 acres

$(6.3 \text{ acres} (3.18)) \Rightarrow 20.0 \text{ afa limit to } 19.8 \text{ afa}$
 $(6.2 \text{ acres} (3.18)) \Rightarrow 19.7 \text{ afa}$

$6.3 \times 4 = 25.2 \text{ afa}$

$44 - 25.2 \Rightarrow 18.8 \text{ Afa}$ 37-20852

rest area
37-20853A

0.13 cfs $\dot{c}$ 19.8 afa

based on
CU

37-20852

0.09 cfs $\dot{c}$ 18.8 afa (4.7 acres)
 37-20852

MICROFILMED
FEB 25 2003

MEMORANDUM

Date: January 24, 2003
To: Transfer 70087 File
From: Corey Skinner
Re: Evaluation of Sufficiency of Information Submitted

Transfer 70087, in the name of the Idaho Transportation Department (ITD), was filed to modify water rights for a rest area along the I-84 freeway about six miles west, and slightly north, of Bliss. Two rights are involved with the transfer with right 37-7003 currently appurtenant to the rest area property. The transfer proposes adding a new point of diversion to this right, changing the place of use slightly, and changing the nature of the use (domestic to municipal). The other right involved with the transfer, 37-7385A, is an irrigation right that currently lists a point of diversion about four miles north, and slightly east, of Bliss. The ITD purchased this right from the current owner in order to transfer the right to the rest area for more water for current and future needs. The transfer proposes moving right 37-7385A to the two rest area wells (one existing and one proposed) and proposes using the right for municipal use at the rest area. The use at the rest area is to be described as municipal in order to meet reasonably anticipated future needs as the rest area experiences more traffic, and use, throughout the years. The ITD is considered a municipal provider by definition as stated in 42-202B, IDAHO CODE, ("a political subdivision of the state of Idaho authorized to supply water for municipal purposes").

A study provided with the application indicates that 27 afa is needed at the rest area in the year 2025. This 27 afa for 2025 was considered the "reasonably anticipated future need" allowed for a municipal provider. Right 37-7003, currently used at the rest area allows for an annual diversion and use of 7.2 acre-feet. Right 37-7385A was decreed for a diversion volume of 44 acre-feet for irrigation use (11 acres). However, the difference between the needed 27 acre-feet, and the currently available 7.2 acre-feet is only 19.8 acre-feet. As part of the approval, right 37-7385A was split into rights 37-20852 and 37-20853. Because the nature of use of right 37-7385A is changing from irrigation to municipal use, the transfer had to be based on consumptive use of right 37-7385A. Randy Erkins, the gentleman that is selling right 37-7385A to the ITD, provided FSA crop information for the year 1998 indicating that the right was used to irrigate alfalfa. The consumptive use volume allowance for alfalfa in the Bliss area is 3.18 afa according to the 1983 Allen & Brockway report. Therefore, in order to provide 19.8 acre-feet from right 37-7385A, 6.3 acres worth of irrigation would have to be given up. This resulted in right 37-20853 for 0.13 cfs and 19.8 afa being transferred to the rest area for reasonably anticipated future needs through the year 2025. Right 37-7003 provides 7.2 afa, and 19.8 afa from right 37-20853 totals the 27 afa identified as water need in ITD study for the year 2025. Right 37-20852 for 0.09 cfs and 18.8 acre-feet (4.7 acres worth of irrigation) remains at the original point of diversion. Note that right 37-20852 reflects no recorded place of use per decreed right 37-7385A.

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

- **Authority to File:**
Applicant is listed as the current owner on SRBA decree 37-7003, and applicant has a copy of an "agreement for transfer of water rights" in the application file. This agreement outlines the purchase and sale of right 37-7385A from the current owner to the applicant.
- **Water Right Validity:**
Rights involved with this transfer were recently decreed in the SRBA.
- **Injury to Other Water Rights:**
None anticipated. See 1/7/2003 memo from Garth Newton from Hydrology Section.
- **Enlargement of Use:**
Water right 37-7003 is limited to its decreed amounts, right 37-20853 is limited by the historical use (irrigation of 6.3 acres of alfalfa) and the 2025 planning horizon allowing "reasonably anticipated future needs". Right 37-20852 is limited by what remains of the decreed amounts of right 37-7385A.
- **Local Public Interest:**
Water use at rest area along freeway should be in the local public interest.
- **Beneficial Use/Conservation of Water Resources:**
Low flow fixtures will be incorporated into the rest area and sprinklers used for landscaping.

Review of the application finds there is no clear inconsistency with criteria set forth in Section 42-222 Idaho Code preventing processing of this application.

SCANNED
JAN 27 2003
MICROFILMED
FEB 25 2003

State of Idaho
Department of Water Resources

RECOMMENDATION OF WATERMASTER

Application No: Transfer 70087
Water Right No: 37-7003, 37-7385A
Applicant Name: Dept of Transportation

Watermaster's Recommendation:

- a) ☐ I do not oppose approval of this application
b) ☒ I do not oppose approval of this application if it is conditioned as follows:

(R05) Watermaster jurisdiction, Water District 130
(115) Measuring device required, all points of diversion
(067) Measure and annually report
Rate of flow limited to 0.23 cfs

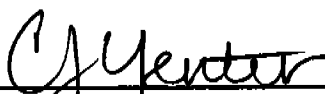
- c) ☐ I oppose approval of this application for the following reasons:
d) ☒ Additional comment:

The existing well under 37-7003 has not been previously measured or reported because of the low rate of flow. The new combined rate of flow and location in the Water District will require both pods to be measured.

Even though these rights have been re-classified as municipal rights, I don't see where any variance is warranted based on municipal provider exclusion. The rights and the wells have not been "subject to other measurement provisions" under the measurement program.

Dated: January 9, 2003

Water District 130



Cindy J Yenter, Watermaster

MICROFILMED

FEB 25 2003

SCANNED

JAN 27 2003

MEMORANDUM

January 7, 2003

To: Jeff Peppersack
Through: Garth Newton
From: Shane Bendixsen
Subject: Transfer 70087 – ITD

It is my understanding the Idaho Transportation Department (ITD) proposes to transfer a ground water right from 05S 13E sec 16 to 06S 12E sec 6 and 05S 12E sec 31 for a rest stop along I-84 (see Attached Figure). The following is a brief hydrologic review.

The current point of diversion lies within the ESPA model boundary, but the proposed point of diversion is outside the model boundary and down gradient. Therefore response zones cannot be used to estimate how the reaches of the Snake River will be impacted. It can be assumed though, based on the location and the ground water flow direction (see Attachment) that the Kimberly to King Hill reach is the only reach impacted at the current and proposed points of diversion.

Concern has been about the effect on Bancroft Springs. A current numeric model has not been created for the area. It would take considerable effort to create one and due to lack of data, calibration would be difficult. An analytical model was therefore chosen to merely show the magnitude of the change for the two points of diversion.

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At the current point of diversion, draw down at Bancroft Springs is approximated to be 0.004 feet. At the proposed point of diversion, draw down at Bancroft spring is approximated to be 0.050 feet. These draw downs are considered not measurable and well within the error for a model.

Both scenarios assumed steady state conditions. Assuming transient conditions, pumping for one day has no effect on the springs at either sites.

In closing, the four reaches of the Snake River will not be affected. Decreased head values at Bancroft Springs will be negligible if non-existent.

MICROFILMED
FEB 25 2003

SCANNED
JAN 27 2003

REFERENCES

Garabedian, S.P., Hydrology and Digital Simulation of the Regional Aquifer System,
Easter Snake Plain, Idaho, U.S. Geological Survey Professional Paper 1408-F,
1992.

MICROFILMED
FEB 25 2003

SCANNED
JAN 27 2003

FSA-578(02-01-91)

TRANSMISSION VERIFICATION REPORT
REPORT OF ACREAGE

PROGRAM YEAR 1998

FARM NUMBER: 1525

FARM SUMMARY

DATE: 01-24-2003
TIME: 01/24/2003 12:00
NAME: IDMB-SOUTHERN REGION
FAX: 2087363037
TEL: 2087363037

Operator Name and Address ID

R RANDOLPH ERKINS 6541

PO BOX 210

BLISS ID 83314-0210

Cropland: 504.4

DATE, TIME

01/24 11:58

Farmland: 986.0

FAX NO./NAME

912088629267-244305

NOTE: The following statements are made in accordance with the Privacy Act (50 USC 552a). The Agricultural Adjustment Act of 1938, as amended, and the Agricultural Act of 1949, as amended, authorized the collection of the following data. The data will be used to determine eligibility for assistance. Furnishing the data is voluntary, however, without it assistance cannot be provided. The data may be furnished to any agency responsible for enforcing the provisions of the Acts.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate, or any other aspect of this collection of information, including suggestions for reducing this burden, to the Department of Agriculture, Clearance Officer, Ag Box 7630, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0560-0004), Washington, D.C. 20503. RETURN THIS COMPLETED FORM TO YOUR FSA COUNTY OFFICE.

The following producer shares are identical for every field and crop:

Producer Name	ID	Share
R RANDOLPH ERKINS	6541	1.0000

Crop	Reported	Determined	Crop	Reported	Determined
ALFAL	365.1		GRASS	134.3	

OPERATOR'S CERTIFICATION: I certify to the best of my knowledge and belief that the acreage of crops and land uses listed herein are true and correct, and that all required crops and land uses have been reported for the farm as applicable. The signing of this form gives FSA representatives authorization to enter and inspect crops and land uses on the above identified land.

Operator's Signature

Date

This program or activity will be conducted on a nondiscriminatory basis without regard to race, color, religion, national origin, sex, age, marital status, or disability.

ATTN: Cory Skinner

From: Randy Erkins

Phone 352-4622
mobil 420-6219

or call

PAGE 3
MICROFILMED

FEB 25 2003

Chuck For Question
Thanks
Randy

SCANNED
JAN 27 2003

FSA-578 (02-01-91)

REPORT OF ACREAGE

PROGRAM YEAR 1998

FARM NUMBER: 1525

FARM AND TRACT DETAIL LISTING

DATE: 01-24-2003

Operator Name and Address 10

Original: _____

R RANDOLPH ERKINS 6541

Revision: _____

PO BOX 210

BLISS, ID 83314-0210

Cropland: 504.4

Farmland: 986.0

Tract Number	Field Num ID	Irr Prc	Crop	Var/ Type	Int Use	Lnd Use	Reported Acreage	Determined Acreage	O/ M	Crop Stat	Plnt Prac	Prod Share	Prod ID
502	1	Ir	ALFAL		Hay		11.20			I			DEF
	2	Ir	ALFAL		Hay		9.50			I			DEF
	3	Ir	ALFAL		Hay		19.10			I			DEF
	4	Ir	ALFAL		Hay		35.40			I			DEF
	5	Ir	ALFAL		Hay		14.20			I			DEF
	6	Ir	ALFAL		Hay		7.20			I			DEF
	7	Ir	ALFAL		Hay		65.60			I			DEF
	8	Ir	ALFAL		Hay		10.60			I			DEF
	9	Ir	ALFAL		Hay		3.60			I			DEF
		Crop		Nirr		Irr							
		ALFAL		176.4									

Photo Number/Legal Description: D9-2 30-5-13

Cropland: 176.4 Reported: 176.4 Difference: .0 Reported D,B,S,R,A: .0

Farm

553	1	Ir	ALFAL		Hay		88.30			I			DEF
	2	Ir	ALFAL		Hay		8.80			I			DEF
	3	Ir	ALFAL		Hay		5.80			I			DEF
	4	Ir	ALFAL		Hay		2.90			I			DEF
	5	Ir	ALFAL		Hay		8.80			I			DEF
		Crop		Nirr		Irr							
		ALFAL		114.6									

Photo Number/Legal Description: E8 16-5-13

Cropland: 114.6 Reported: 114.6 Difference: .0 Reported D,B,S,R,A: .0

558	1	Ir	GRASS	OTH	Graze		1.60			I			DEF
	2	Ir	GRASS	OTH	Graze		55.10			I			DEF
	3	Ir	GRASS	OTH	Graze		2.00			I			DEF
	4	Ir	GRASS	OTH	Graze		1.10			I			DEF
	5	Ir	GRASS	OTH	Graze		46.10			I			DEF
	6	Ir	GRASS	OTH	Graze		28.40			I			DEF

PAGE 1

SCANNED
MICROFILMED JAN 27 2003
FEB 25 2003

FSA-578(02-01-91)

REPORT OF ACREAGE

PROGRAM YEAR 1998

FARM NUMBER: 1525

FARM AND TRACT DETAIL LISTING

DATE: 01-24-2003

Tract Number	Field Num ID	Irr Prc	Crop	Var/ Type	Int Use	Lnd Use	Reported Acreage	Determined Acreage	O/ M	Crop Stat	Plnt Prac	Prod Share	Prod ID
		Crop GRASS	Nirr 134.3		Irr								
Photo Number/Legal Description: D7 29/30/31/32-4-13													
Cropland:		134.9	Reported:		134.3	Difference:		- .6	Reported D.B.S.R.A:		.0		
1498	1	Ir	ALFAL		Hay		14.90			I			DEF
	2	Ir	ALFAL		Hay		4.40			I			DEF
	3	Ir	ALFAL		Hay		1.90			I			DEF
	4	Ir	ALFAL		Hay		16.20			I			DEF
	5	Ir	ALFAL		Hay		2.90			I			DEF
	6	Ir	ALFAL		Hay		7.70			I			DEF
	7	Ir	ALFAL		Hay		26.10			I			DEF
		Crop ALFAL	Nirr 74.1		Irr								
Photo Number/Legal Description: D10 5/6-6-13													
Cropland:		78.5	Reported:		74.1	Difference:		-4.4	Reported D.B.S.R.A:		.0		

PAGE 2

SCANNED
JAN 27 2003

MICROFILMED

FEB 25 2003

MEMORANDUM

Date: December 17, 2002

To: Garth Newton
Hydrology

From: Jeff Peppersack 

Re: Hydrology Review for Transfer No. 70087 - ITD

Transfer No. 70087 proposes a change in point of diversion within the ESPA boundary; however, the GW model cells do not cover the new well locations. We need some indication of possible effects to existing rights in the area and potential impacts to Snake River in ESPA area, if any. Please see attached e-mail from Corey Skinner for additional details. If you need more information, let me know.

MICROFILMED

FEB 25 2003

Peppersack, Jeff

From: Skinner, Corey
Sent: Monday, December 16, 2002 11:07 AM
To: Skaggs, Pam; Peppersack, Jeff; Merritt, Allen
Subject: Transfer 70087 - ITD transfer in ESPA around Bliss

~~170113 70087~~
2) 0.22 cfs
19,008

Transfer 70087 in the name of the Idaho Transportation Department was filed to modify water rights for a rest area along the I-84 freeway about six miles west, and slightly north, of Bliss. Two rights are involved with the transfer. One right, 37-7003, is currently appurtenant to the rest area property. The transfer proposes adding a new point of diversion to this right, changing the place of use slightly, and changing the nature of the use (domestic to municipal). The other right involved with the transfer, 37-7385A, is an irrigation right that currently lists a point of diversion about four miles north, and slightly east, of Bliss. The transfer proposes moving right 37-7385A to the two rest area wells (one existing and one proposed) and proposes using the right for municipal use at the rest area.

As you recall, the current location for the irrigation well (37-7385A) and the two rest area wells are within the ESPA. However, the location of the irrigation well is on the outer fringe of the groundwater model, and the rest area wells are located outside the area covered by the ground water model. During our Wednesday morning discussion, we discussed investigating spring diversions along the Snake River near the rest area (new diversions). I queried the Department's database looking for records that list points of diversion and springs as sources along a fifteen-mile stretch of the Snake River near the proposed points of diversion for transfer 70087. The results of my findings are shown on the map in the attached WORD document...



ITD Map2.doc

In the examined stretch along the river, only three possible rights and/or claims list points of diversion and sources as springs. A summary of these three rights and/or claims is as follows...

- Right 37-2797 (SRBA claim 37-2797) in the name of Idaho Power. This right lists a point of diversion from a spring located in Lot 8 (SWSW ¼) of Section 8 (T06S, R12E). This right is for domestic and irrigation use associated with Bliss Power Plant project on the Snake River. GIS indicates that Lot 8 (SWSW ¼) of Section 8 is actually located south of the Snake River, despite the Basin 37 designation in the water right number. Examination of the licensing field exam map indicates that the spring and point of diversion for this right are located south of the Snake River. I had an opportunity to talk with Mark Stokes of IPCO, and he checked with Bliss power plant personnel and verified that the spring is located on the south side of the river. In addition, Mr. Stokes indicated that the use of water under this particular right was discontinued sometime in the mid 1970's.
- Right 37-2295 is a 1914 priority license that lists three points of diversion in the SE ¼ of Section 33 (T05S, R11E) and springs as the source. However, there has been no SRBA claim filed based on this license so apparently this use has been discontinued sometime prior to 1987.
- Right 37-7734 (SRBA claim 37-7734) is a minimum in stream flow right held by the Water Resource Board. The source of this right is listed as Bancroft Springs located in Lot 5 (SWNE ¼) Section 4 (T06S, R11E). The water right file indicates that the 17.00 cfs filing represents "average discharge" and the filing is for the "confluence with the Snake River".

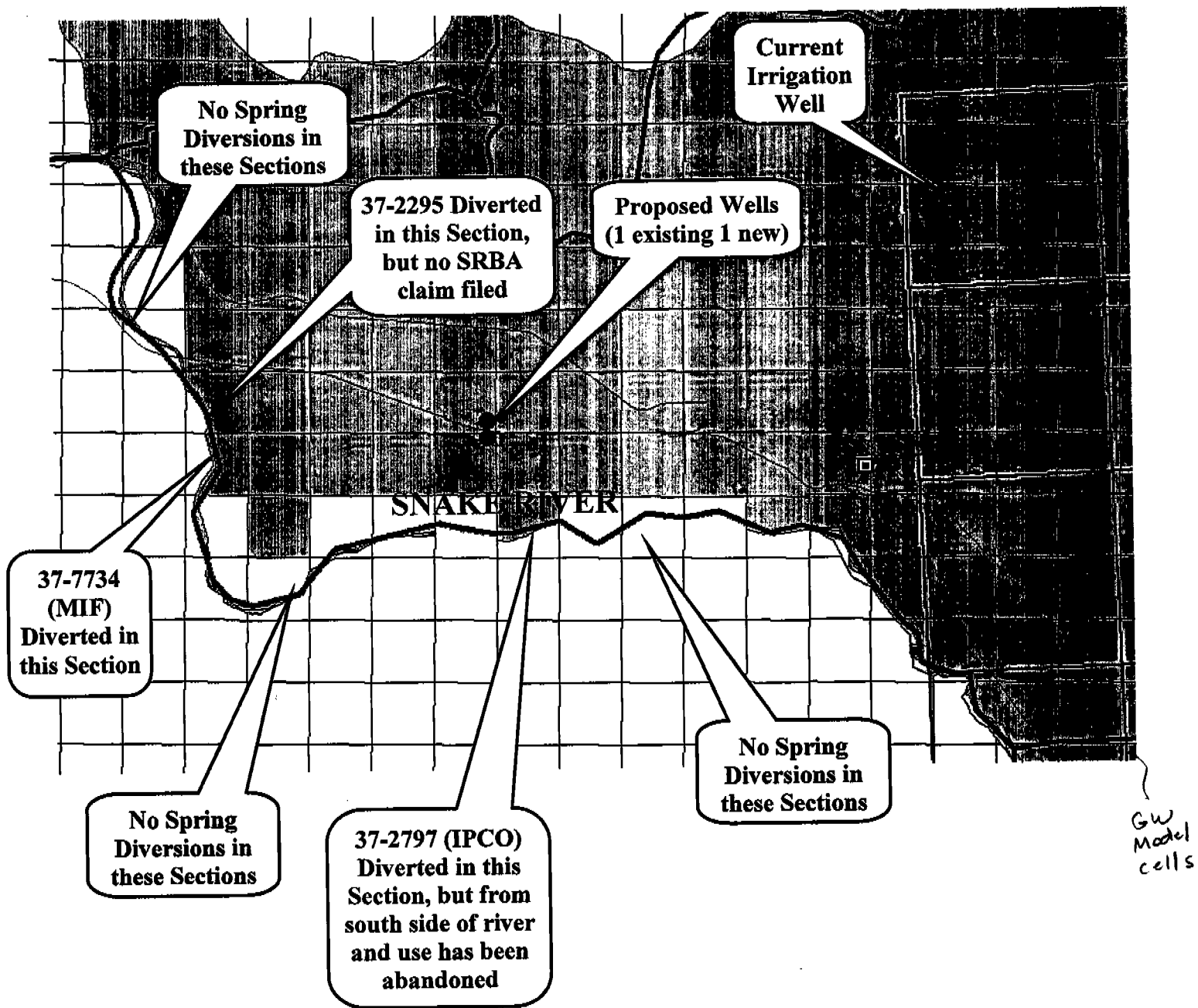
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TRANSFER 70087

It appears that the only right and or water use that could be potentially affected would be the Bancroft Spring right (37-7734). The point of diversion for this right is located about 4.5 miles west and less than 0.5 miles south of the points of diversion proposed by transfer 70087. The Snake River is only located approximately 1.5 miles south of the points of diversion proposed by transfer 70087. The predominant direction of the groundwater flow in this area of the aquifer may determine whether or not the diversion proposed by transfer 70087 will have a negative effect on the Bancroft Spring right (37-7734).

So where do we go from here???



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FEB 25 2003

Skinner, Corey

From: Peppersack, Jeff
Sent: Monday, December 16, 2002 11:11 AM
To: Skinner, Corey; Skaggs, Pam; Merritt, Allen
Subject: RE: Transfer 70087 - ITD transfer in ESPA around Bliss

We'll follow up with Hydrology to get a determination of possible impacts.

Jeff

-----Original Message-----

From: Skinner, Corey
Sent: Monday, December 16, 2002 11:07 AM
To: Skaggs, Pam; Peppersack, Jeff; Merritt, Allen
Subject: Transfer 70087 - ITD transfer in ESPA around Bliss

Transfer 70087 in the name of the Idaho Transportation Department was filed to modify water rights for a rest area along the I-84 freeway about six miles west, and slightly north, of Bliss. Two rights are involved with the transfer. One right, 37-7003, is currently appurtenant to the rest area property. The transfer proposes adding a new point of diversion to this right, changing the place of use slightly, and changing the nature of the use (domestic to municipal). The other right involved with the transfer, 37-7385A, is an irrigation right that currently lists a point of diversion about four miles north, and slightly east, of Bliss. The transfer proposes moving right 37-7385A to the two rest area wells (one existing and one proposed) and proposes using the right for municipal use at the rest area.

As you recall, the current location for the irrigation well (37-7385A) and the two rest area wells are within the ESPA. However, the location of the irrigation well is on the outer fringe of the groundwater model, and the rest area wells are located outside the area covered by the ground water model. During our Wednesday morning discussion, we discussed investigating spring diversions along the Snake River near the rest area (new diversions). I queried the Department's database looking for records that list points of diversion and springs as sources along a fifteen-mile stretch of the Snake River near the proposed points of diversion for transfer 70087. The results of my findings are shown on the map in the attached WORD document...

<< File: ITD Map2.doc >>

In the examined stretch along the river, only three possible rights and/or claims list points of diversion and sources as springs. A summary of these three rights and/or claims is as follows...

- Right 37-2797 (SRBA claim 37-2797) in the name of Idaho Power. This right lists a point of diversion from a spring located in Lot 8 (SWSW ¼) of Section 8 (T06S, R12E). This right is for domestic and irrigation use associated with Bliss Power Plant project on the Snake River. GIS indicates that Lot 8 (SWSW ¼) of Section 8 is actually located south of the Snake River, despite the Basin 37 designation in the water right number. Examination of the licensing field exam map indicates that the spring and point of diversion for this right are located south of the Snake River. I had an opportunity to talk with Mark Stokes of IPCO, and he checked with Bliss power plant personnel and verified that the spring is located on the south side of the river. In addition, Mr. Stokes indicated that the use of water under this particular right was discontinued sometime in the mid 1970's.
- Right 37-2295 is a 1914 priority license that lists three points of diversion in the SE ¼ of Section 33 (T05S, R11E) and springs as the source. However, there has been no SRBA claim filed based on this license so apparently this use has been discontinued sometime prior to 1987.

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It appears that the only right and or water use that could be potentially affected would be the Bancroft Spring right (37-7734). The point of diversion for this right is located about 4.5 miles west and less than 0.5 miles south of the points of diversion proposed by transfer 70087. The Snake River is only located approximately 1.5 miles south of the points of diversion proposed by transfer 70087. The predominant direction of the groundwater flow in this area of the aquifer may determine whether or not the diversion proposed by transfer 70087 will have a negative effect on the Bancroft Spring right (37-7734).

So where do we go from here???

AFFIDAVIT of PUBLICATION RECEIVED

State of Idaho } ss.
County of Gooding }

SEP 24 2002

Department of Water Resources
Southern Region

Norma DeVoe, being first duly sworn, deposes and says that he/she is the printer (publisher) of the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho; that said newspaper has been continuously and uninterruptedly published for a period of seventy-eight consecutive weeks prior to the first publication of the annexed notice, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once each week for

2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 19th day of September, 2002, and the date of the last publication was on the 19th day of September, 2002

On this 19th day of September, in the year of 2002, before me, a Notary Public, personally appeared Norma DeVoe, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he/she executed the same.

SHELLEY STURGEON
Notary Public
State of Idaho

Shelley Sturgeon
Notary Public for Idaho
Residing at Jerome

My commission expires: 12/3/05

7946/43488
GOODING COUNTY LEADER
Gooding, Idaho

COST OF PUBLICATION

Number of Picas per Line _____

Number of Lines in Notice _____

Number of Insertions 2x

Lines tabular at _____ 8.0¢/Pica
488.81 Lines straight at 34.22 7.0¢/Pica
488.81 Subsequent lines at 29.33 6.0¢/Pica

Affidavit Fee: 2.50

TOTAL COST 66.05

COPY OF NOTICE

(Paste Here)

State of Id - Dept of Trans.
TITLE OF NOTICE

PLAINTIFF ATTORNEY

DEFENDANT

PLAINTIFF

I. D. W. R.

BILL TO

Notice is hereby given that the following information was filed with the Department of Water Resources, Southern Region, on September 19, 2002, for the purpose of publishing the same in the Gooding County Leader, a newspaper published every week in Gooding, County of Gooding, State of Idaho, and is a newspaper qualified to publish legal notices as provided by act of the 1919 session of the legislature of the State of Idaho, known as House Bill 145; that the annexed advertisement was published once each week for 2 consecutive issues in said newspaper proper and not in a supplement; that the date of the first publication of said advertisement was on the 19th day of September, 2002, and the date of the last publication was on the 19th day of September, 2002.

On this 19th day of September, in the year of 2002, before me, a Notary Public, personally appeared Norma DeVoe, known or identified to me to be the person whose name subscribed to the within instrument, and being by me first duly sworn, declared that the statements therein are true, and acknowledged to me that he/she executed the same.

SHELLEY STURGEON
Notary Public
State of Idaho

Shelley Sturgeon
Notary Public for Idaho
Residing at Jerome

My commission expires: 12/3/05

7946/43488
GOODING COUNTY LEADER
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488.81 Lines straight at 34.22 7.0¢/Pica
488.81 Subsequent lines at 29.33 6.0¢/Pica

Affidavit Fee: 2.50

TOTAL COST 66.05

42-222; Idaho Code. Protests against approval of a plan filed with the Southern Region, Office 1100, Suite 200, Boise, Idaho, must be filed with the Department of Water Resources, Southern Region, on or before September 20, 2002. A protestant must also submit a copy of the protest to the applicant.

43488

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NOTICE OF PROPOSED CHANGE TO WATER RIGHTS

Notice is hereby given that an Application for Transfer has been filed with the Idaho Department of Water Resources for changes to water rights within Gooding County:

STATE OF IDAHO, DEPT OF TRANSPORTATION, DIVISION OF HIGHWAYS, PO BOX 7129; BOISE ID 83707 filed Application No. 70087 on 8/9/02 for diversion of a combined total of 0.35 cfs from ground water. Transfer proposes modifying an existing right, 37-7003, for use at a Rest Area located along Interstate 84 approximately 6.5 miles West and 1.0 mile North of Bliss and transfer an existing irrigation right, 37-7385A, to the Rest Area in order to meet future increases in water need. The existing irrigation right currently lists the diversion point as a well located approximately 5.0 miles North and 1.25 miles East of Bliss. The transfer proposes adding an additional well to the existing water system at the Rest Area.

For specific details regarding the application(s), please contact IDWR Southern Regional Office at 208-736-3033 or visit www.idwr.state.id.us with detail provided under "New Water Right Applications". Protests may be submitted based on the criteria of Sec 42-222, Idaho Code. Protests against approval must be filed with IDWR, Southern Region, 1341 Fillmore St.-Suite 200; Twin Falls, ID 83301 with a protest fee of \$25.00 for each application on or before September 30, 2002. The protestant must also send a copy of the protest to the applicant.

Karl J. Dreher, Director

Published in the Gooding County Leader on 9/12 & 9/19/02.

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FEB 25 2003

OK

IDAHO DEPARTMENT OF WATER RESOURCES
1341 FILLMORE STREET-STE# 200
TWIN FALLS ID 83301

Phone: 736-3033

Fax#: 736-3037

September 5, 2002

ATTN: Norma
MAGIC VALLEY PUBLISHING
Gooding County Leader
PO BOX 468
JEROME ID 83338

Dear Norma:

Enclosed you will find a legal notice which we wish to have published in your newspaper on the dates indicated (once a week for two consecutive weekly issues).

If you cannot publish the notice on the proposed dates, please contact us immediately at 736-3033.

An affidavit of publication must be submitted to the Department along with the publication bill. Your cooperation is appreciated.

Sincerely

Mary Baldwin

Mary A. Baldwin
Administrative Assistant

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FEB 25 2003



State of Idaho

DEPARTMENT OF WATER RESOURCES

1341 Fillmore Street, Suite 200, Twin Falls ID 83301-3380

Phone: (208) 736-3033 FAX: (208) 736-3037

SOUTHERN REGION

DIRK KEMPTHORNE
Governor

KARL J. DREHER
Director

September 5, 2002

ATTN CHUCK CARRNOHAN
ID DEPT OF TRANSPORTATION
PO BOX 2-A
SHOSHONE ID 83352

RE: Application for **Transfer No. 70087 (Bliss Rest Stop)**

Dear Mr. Carrmohan:

The Department of Water Resources acknowledges receipt of your application. Please refer to the number in all correspondence regarding the above referenced application.

This office has scheduled advertising the application in the **Gooding County Leader** on 9/12 & 9/19/02. The advertisement will be published for two weeks, and a **period of ten calendar days following the second publication will be allowed for the submittal of protests. (September 30, 2002)**

If an application is protested, the applicant will be sent a copy of the protest. The protest must be resolved before the application is approved or denied. If the protest is not resolved voluntarily, this Department will conduct a conference and/or hearing on the matter.

The department's review process may have to include field investigation and verification of the claims which is required as part of the Snake River Basin Adjudication.

State Office personnel will conduct a complete review prior to final processing of the application(s) and will notify the applicant regarding the outcome of this review.

Please feel free to contact this office if you have any questions regarding this procedure.

Sincerely,

A handwritten signature in cursive script that reads "Mary Baldwin".

Mary A. Baldwin
Administrative Assistant

cc:
ID DEPT OF TRANSPORTATION
DIVISION OF HWYS - R/W SECTION
PO BOX 7129
BOISE ID 83707

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FEB 25 2003

STATE OF IDAHO
TRANSPORTATION
DEPARTMENT
SHANNON L. COOK
RIGHT OF WAY SECTION/TITLES
PO BOX 7129

BOISE, ID 83707-1129
TEL: (208) 334-8501
DIR: (208) 334-8522
FAX: (208) 334-8501

RECEIVED
AUG 29 2002
Department of Water Resources
Southern Region



FACSIMILE TRANSMITTAL SHEET

TO:	FROM: SHANNON L. COOK
<i>Corey Skinner</i>	
COMPANY:	DATE:
<i>Idaho Dept. of Water Resources</i>	<i>08/29/02</i>
FAX NUMBER:	MY RETURN PHONE NO: 334-8522
<i>208-736-3037</i>	RETURN FAX NO: 334-8501
PHONE NUMBER:	TOTAL NO. OF PAGES INCLUDED:
<i>Key 3711</i>	<i>2</i>
RE:	
<i>Bliss Rest Area</i>	

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

*The payment for the transfer application is
in the process of being made. Thank you.*

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JAN 27 2003



TRANSPORTATION DEPARTMENT

P.O. BOX 7129 • BOISE, ID • 83707-1129 • (208) 334-8000

August 29, 2002

IDAHO DEPARTMENT OF WATER RESOURCES
ATTN: COREY SKINNER
1341 FILLMORE, STE. 200
TWIN FALLS, ID 83301-3380

RECEIVED
AUG 29 2002
Department of Water Resources
Southern Region

Re: Project No. IM-84-3(032)133
Key No. 3711
Project Name: I-84 Bliss Rest Area
Gooding County
District 4
Parcel No. 1 Parcel Id. No.0042008

Dear Mr. Skinner,

The payment for the transfer application that you have requested is being processed at this time. You should receive the check from the State Auditor's Office within the next 30 days. If not received by that time, please contact me at (208)334-8522.

Sincerely,

Shirley Clark

SHANNON L. COOK
Right of Way Agent

SC:sc
Enclosure

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JAN 27 2003

- An Equal Opportunity Employer -

** TOTAL PAGE.02 **

Baldwin, Mary

From: Baldwin, Mary
Sent: Thursday, August 15, 2002 10:31 AM
To: Yenter, Cindy (Hodges)
Cc: Baldwin, Mary
Subject: NEW transfer app

FYI, the ID Dept of Transportation has filed T# 70087 to convert irrigation rights to domestic/municipal uses at both Rest Areas on the Interstate over by Bliss and drilling 1 more well.

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FEB 25 2003

MEMORANDUM

DATE: August 14, 2002
TO: File---T# 70087
FROM: Mary A. Baldwin, Southern Region
SUBJECT: Filing fee

Due to the lack of information in the file concerning a transmittal for the amount of the filing fee and some reluctance to schedule the legal advertising without some written evidence of that pending process, I contacted the ID Dept. of Transportation, Shoshone office by telephone on 8/13/02.

Contact person in the Shoshone office is:

CHUCK CARRNOHAN
ID DEPT OF TRANSPORTATION
PO BOX 2-A
SHOSHONE ID 83352

Tele# 886-7823

Mr. Carrnohan advised me that he was positive that the transmittal had been submitted by his office and would send our office some type of written confirmation in the near future.

Mr. Carrnohan also requested notification of each stage of processing for the application.

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FEB 25 2003



To David Clark, Todd Johnson and File
From Dan Axness
Date January 14, 2002
Subject Bliss Rest Area Water and Wastewater Design Report

M e m o r a n d u m

Background

The Idaho Transportation Department (ITD) Bliss Safety Rest Area, located in South Central Idaho, approximately 80 miles east of Boise, Idaho, on I-84 (interstate freeway), is scheduled to be rebuilt in 2002. There are two facilities, one on each side of the freeway. The Bliss Rest Area is designed to have increased parking, and the existing restroom buildings will be removed and replaced with larger facilities. Due to heavy demand for the Bliss Rest Area facilities, ITD has added portable chemical toilets to increase the turnaround for passengers per day. Gene Ross, formerly of ITD, wrote a memo addressing design of the Bliss Rest Area. HDR Engineering, Inc. (HDR), the design consultant, has based its design on this memo. Adjustments to the design are noted and reflect existing Bliss Rest Area conditions.

Scope

The scope of this design and construction effort is to meet the water and wastewater needs of the Bliss Rest Area through the end of the design life (year 2025). These needs include safe supply of potable water for human consumption, restroom operation, restroom cleaning, and landscape operation. In addition, safe disposal of wastewater generated from the restroom facilities is required.

Design will include two potable water supply wells, one on each side of the freeway, serving each of the Bliss Rest Area facilities. A pipeline crossing the interstate will connect the two water systems served by the wells. The two water systems will normally be operated independently by closing an isolation valve on the connecting pipeline. The isolation valve will be opened when either the eastbound well or the westbound well fails, and the well that is still in operation will provide service to both systems.

Raw water will be pumped from the well to the rest room building for both the eastbound and westbound potable water systems. A room will be provided in the rest room building to house the hydropneumatic pressure tanks and the future chlorination system (hypochlorite storage tanks, chlorine feed pump, chlorine contact tanks).

Wastewater system will be similar to the existing evaporative system. The treatment ponds will be lined with HDPE. ITD would like to eliminate lift station pumps, however this is not possible. However, ITD would like to refurbish and reuse the existing lift station pumps. In addition, ITD requests that the new wastewater treatment ponds not be oversized, because of problems with odor at the Juniper Rest Area.

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Water Design Basis

The following process was utilized to determine the capacity of the new water system:

1) Estimate water use by fixture type.

In an ITD Rest Area Design Memorandum, Gene Ross estimated water use at the Bliss Rest Area through the year 2025. This memorandum did not specifically address estimated water use for low-flow fixtures. Since the Bliss Rest Area is currently outfitted with low-flow fixtures, and will be outfitted with low-flow fixtures in the future, the suggested flow rates in the memorandum have been adjusted.

Following are the assumed flow rates for low-flow fixtures for the Bliss Rest Area water use calculations:

- Urinals can be set between 0.5 and 1.5 gallons per flush; assume 0.75 gal/flush (flush setting was set at minimum and increased until deposits in urinals were minimized).
- Toilets are low-volume flush--1.6 gallons per flush.
- Assume 1.3 gallon hand washing water per use. (2 gpm for 40 seconds).
- PSI of Twin Falls-supplied portable chemical toilets for more than two years to Bliss Rest Area. There are 175 estimated uses per day are (personal communication).

2) Measure wellhead flow rates.

Shawn Webb of ITD has measured potable water volumes at the wellhead with an inline propeller flow meter. Measured volumes range from 6,000 to 9,000 gal/day. The average flow from late August through September is 7,000 gal/day.

3) Estimate water use based on traffic volumes.

The measured flow rates during August and September can be compared to the measured traffic volumes during the same period to determine the estimated annual average flow rate. The daily traffic count during this period is 13,750 vehicles per day. The annual average traffic count is 11,360 vehicles per day. Therefore, traffic during this period is 121% of the yearly average (Table 4).

Average daily domestic water consumption in 2001 was estimated to be 5,800 gal/day (7,000 gal/day divided by 121%).

In the ITD Rest Area Design Memorandum, Gene Ross predicted the average daily traffic volume for the Bliss Rest Area would be 28,750 vehicles per day in 2025. Therefore, average daily water use in 2025 is projected to be 11,700 gal/day, assuming the average daily water use is directly proportional to the average daily traffic volume.

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Additional water use for irrigation is estimated to be 8,000 gal/day. This estimated demand was provided by the irrigation consultant, The Land Group, for the Bliss Rest Area design.

The sum of both averages is 19,700 gal/day. These projections are based on two to three months of flow data collection and projections of traffic counts. A safety factor of 1.2 is prudent to account for variations in traffic and rest area-use projections.

$$\begin{aligned} \text{2025 Average Daily Demand} &= 19,700 \text{ gal/day} \times 1.2 \\ &= 24,000 \text{ gal/day} \\ &= 16.6 \text{ gpm} \end{aligned}$$

$$\begin{aligned} \text{2025 Annual Water Demand} &= 24,000 \text{ gal/day} / (7.48 \text{ gal/cu ft}) / (43,560 \text{ cu ft/acre-foot}) \\ &= 27 \text{ acre-feet} \end{aligned}$$

Peak hourly water use is predicted using the peak traffic data. ITD estimates that the peak hour of traffic accounts for approximately 11% of total daily traffic and approximately 15% of that traffic enters the rest area. Of the traffic entering the Bliss Rest Area, approximately 80% of the passengers use the facilities.

$$\begin{aligned} \text{2025 Peak Hourly Demand} &= 11\% \text{ of Average Daily Traffic (28,750 vehicles/day)} \times 15\% \text{ Capture} \times 80\% \text{ Usage} \times 1.3 \text{ persons/vehicle} \times 2.8 \text{ gal/use} \\ &= 1,380 \text{ gal/hour} \\ &= 23 \text{ gpm} \end{aligned}$$

4) Summarize data.

Summary of data is as follows:

- Divide by 2 for two facilities, resulting in 11.5 gpm.
- Use 19 gal/min for irrigation (The Land Group). Divide by 2 for two facilities, resulting in ~10 gpm. For effective sprinkler use, supply 20 gpm for irrigation system for each side.
- Irrigation will occur at night; peak use will occur during the day. Both peak uses will not occur concurrently.
- Use 23 gpm.

Wastewater Design Basis

Existing Conditions

The Bliss Rest Area operators have provided the following information regarding the current operations of the wastewater system:

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- The septic tanks have been supplemented with two additional tanks. These tanks are pumped out every two months.
- The drain field system in place became problematic in the late 1970s and was replaced with two evaporative ponds on each side of the freeway in the early 1980s.
- The second cell of each system is opened most years to provide more storage and evaporative capacity from late winter through early spring (March).
- The second cell has not risen appreciably (less than 1 foot) during any of the years of operation.
- In the past 10 years, two chemical toilets have been added to provide more toilet facilities. These toilets are serviced twice a week year-round.

Process

The following process was used to determine the capacity of the new wastewater system:

1) Determine existing hydraulic loading at Bliss Rest Area, including the following:

a) Restroom Fixture Use

Restroom fixture water use can be varied, according to Shawn Webb of ITD (personal communication). These estimates were used for the water consumption calculations above.

b) Monthly Precipitation and Evaporation

Monthly precipitation was based on information collected from the nearest weather station, located in Twin Falls, Idaho. Annual precipitation at Bliss is approximately 8 inches per year; Twin Falls precipitation is over 10 inches per year (Table 2).

Monthly evaporation was calculated using the University of Idaho methodology (Table 1, Appendix A).

c) Wastewater Produced

The Bliss Rest Area does not have any wastewater flow measurement devices, and none are planned during the design phase. The existing Bliss Rest Area does not have an irrigation system; therefore, the total wastewater flow is estimated to approximately equal the total water consumption. Wastewater estimates based on historical potable water consumption are shown in Table 5, Usage Worksheet.

2) Calculate future hydraulic loading for wastewater treatment and disposal systems.

a) Wastewater Projections

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Projected wastewater system production is summarized in Table 5 (wastewater production projections)

The wastewater production for the year 2001 was estimated to be 5,800 gal/day. The wastewater production for the year 2025 is estimated to be 12,000 gal/day.

- 3) Determine pond sizes, design septic tank, size pipelines and lift stations.

System Design

The entire system is designed to follow applicable standards.

The gravity sewer pipeline is 8-inch PVC, as specified in the "10-State Recommended Standards for Wastewater Facilities". The minimum pipeline grade is 0.5%, which exceeds the 10-State Minimum Standard of 0.4%. All grade and alignment changes occur at manholes. Sewer pipe cleanouts are placed at a maximum spacing of 100 feet, as requested by ITD maintenance personnel. Hydraulic profiles and velocity calculations are included in the design calculation package. Velocity at half full will be 2.5 feet per second with a capacity of 0.43 cubic feet per second.

The force main from the westbound sewage lift station is 4-inch C900 PVC (Purple Stripe as required by Idaho Department of Environmental Quality [IDEQ]) to the westbound control box. This pipeline has cleanouts at a maximum spacing of 100 feet. Hydraulic profiles and velocity calculations are included in the design calculation package. Velocity at design flow of approximately 400 gpm is 5.1 feet per second.

The septic tanks were sized per IDEQ and Washington Department of Transportation Recommendations. Three tanks in series at each rest area were used. The tanks are each approximately 4,000 gallons and are sized for a retention time of at least 36 hours. The average cross sectional velocity is 0.002 foot per second. Each tank is divided into two compartments. The primary compartment contains approximately one-third of the tank volume. The pre-cast structures are designed to accommodate an HS-25 loading.

The existing ponds will be refurbished, and an additional pond will be installed on each side of the freeway. The existing liner, soil cover, and liner bedding material will be removed and disposed of at an engineer-approved landfill. The ponds will be refurbished by widening the dividing berm, installing new liner bedding, a gas venting system, a HDPE liner, and ballast tubes and safety egress ladders. The new ponds will include the same components as the existing ponds. The existing ponds total approximately 98,000 square feet of surface area. The new ponds will add approximately 67,000 square feet of surface area.

APPENDIX A
SHALLOW POND EVAPORATION

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JAN 27 2003

MONTHLY SHALLOW POND EVAPORATION IN IDAHO

This Web publication was adapted from the following:

Molnau, Myron, Kpordze, Kojo C.S., and Craine, Katherine L., 1992. Monthly shallow pond evaporation in Idaho. ASAE paper PNW 92-111

ABSTRACT

The design of ponds and lagoons require a water balance for the pond area. One of the items of greatest uncertainty in determining this balance is a measure of the evaporation from the water surface. The monthly evaporation is required by various permitting agencies but the areal distribution of pan evaporation stations is not adequate to allow monthly evaporation amounts to be determined. This paper presents a method whereby the monthly pond evaporation can be calculated using an evaporation map from the NOAA evaporation atlas and monthly percentages of annual evaporation developed from monthly evapotranspiration and pan evaporation data.

EXAMPLE OF USE

This example shows how to find the monthly FWS evaporation. The section that follows it explains how this procedure was derived.

To find the monthly freewater surface evaporation for Grangeville, the following steps are followed:

1. Find the annual FWS lake evaporation from the map (Grangeville annual FWS evaporation is 30 inches).
2. Determine the region in which Grangeville is located (Grangeville is in Region 2).
3. Multiply the standard curve for Region 2 (Table 1) by the FWS evaporation amount to obtain monthly freewater evaporation in inches for a shallow lake

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Percent FWS	0.5	1.5	3	8	12	15	19	17	11	6	4	3	100
	0.2	0.4	0.9	2.4	3.6	4.5	5.7	5.1	3.3	1.8	1.2	0.9	30

You are cautioned that the above values are not pan evaporation rates. If you want a conservative design value, assume zero evaporation for December through February and design the lagoon or storage capacity accordingly. Also be careful about assigning a great deal of credibility to rounding in the decimals.

All maps used in this paper are referenced in Appendix A.

INTRODUCTION

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Reliable estimates of weekly and monthly shallow lake evaporation rates for specific locations in the state of Idaho are required by engineers and others engaged in planning, design and operation of shallow ponds, lagoons, and pesticide wash-water holding areas, as well as by state licensing and regulatory agencies. The design procedures and permit systems require values of the monthly evaporation from the water surface. These values are not easily obtained nor easily computed.

These free water surface (FWS) values are used in a water-balance procedure for the pond (Figure 1). An accurate water-balance between the inflow (precipitation, runoff, wash water, pumping, etc) and outflow (evaporation and overflow) will result in a properly sized pond that is neither too large to be economical nor too small to hold all the required water.

The purpose of this bulletin is to present a simple method for obtaining reliable monthly point location estimates of FWS evaporation in Idaho.

DESCRIPTION OF THE METHOD

In order to keep the method simple, easy to use and reliable, existing data and maps were used rather than a formula based system. Such a method was developed for Wyoming by Warnaka and Pochop (1988) and Pochop and Athren (1987). Many existing design procedures use formulas to compute FWS evaporation from pan evaporation data. Because of the sparse pan evaporation network, maps are used extensively to determine the pan and FWS evaporation (Kohler and others, 1959; Farnsworth and others, 1982). Since a map of mean annual FWS evaporation is available, the monthly distribution of FWS evaporation as a percentage of the annual FWS evaporation can be determined if the amount of evaporation in any month can be determined. The actual FWS evaporation for any month can then be obtained by applying the derived monthly distribution to the annual total taken from the NOAA evaporation atlas (Farnsworth and others, 1982).

Data

The data consisted of both published and unpublished National Weather Service (NWS) records, reference evapotranspiration (ET) data computed from climatological data and maps published by NOAA. Specifically these were:

1. Long term pan evaporation records for nine stations in Idaho and four stations in surrounding states. These data were subjected to extensive quality control (Appendix D).
2. May through October pan and FWS evaporation and annual FWS evaporation maps for Idaho published in the NOAA evaporation atlas (Farnsworth and others, 1982) (Figures A-1, A-2 and A-3).
3. Mean monthly reference ET (not adjusted for station aridity) for 98 stations in Idaho (Appendix B; Allen and Brockway, 1983).

DATA ANALYSIS

The data analysis procedure consisted of two steps. In the first step, the ET and pan evaporation data were used to manually partition the state into regions of similar monthly patterns of evaporation. This was done on the assumption that the patterns of potential ET were similar to those of FWS evaporation. In this step, allowances needed to be made for the heat storage in the

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shallow ponds that is not present in either the pan or ET evaporation data (Figure 2). During the second step, the ET and pan evaporation data and the NOAA Atlas were used to estimate FWS evaporation curves by month for each region identified in Step One.

Regionalization

A design procedure should be as simple as possible. This required that the state be divided into fewer than ten regions corresponding roughly to NOAA's ten climatic divisions for the state. Each of these should exhibit very similar patterns of monthly evaporation.

Since only nine usable pan evaporation stations were available (only one in northern Idaho), the 98 ET values were used. These consisted of reference crop ET (alfalfa) computed for each month for March through October by the FAO Blaney-Criddle procedure. In using these data, the assumption was made that the percentage of annual ET which occurs in any one month is also an approximation of the percent of the annual FWS evaporation that occurs in that month. This is a relatively good assumption because the computed ET is the potential rate and is sensitive to the same meteorological variables as is the lake or pan evaporation. These values gave the monthly percentages for eight months leaving only four months to be determined by other means.

Monthly ET data for the 98 stations were expressed as a percentage of the May through October total ET since this was the same time period available from the NOAA charts. By inspection, 64 of the 98 ET stations were grouped into six rather than ten geographic regions based on similarities of the percentage of May-October ET which occurred during each of the eight available months.

Discriminant analysis was then used to verify the validity of the manual grouping and to classify the remaining 34 stations. Discriminant analysis develops equations using the known data groupings obtained by inspection. These are then used to place previously ungrouped stations into one of the six groups based on the similarity of the statistical parameters for each station as well as performing a check on the grouping as obtained by inspection. Various combinations of the climatic regions were attempted in order to determine the best dimensionless monthly evaporation curve with the minimum number of regions. This resulted in the five regional groups as shown in Figure A-4.

This map should be used with caution whenever the location in question is near a regional boundary. The user should always consider the fact that the point could also fall into the adjacent region. This is especially true on the north side of the Snake Plain at the boundary between Region 3 and 4.

Annual Percentage Distribution

The monthly percentages were developed by first determining the percentage of the annual FWS evaporation that occurs in the May-October period.

The May-October FWS evaporation is obtained from Figure A-2 and the annual FWS evaporation from Figure A-3. From these two values, the ratio of May-October FWS evaporation to the annual value may be obtained. For the entire state, this ratio ranged from 0.71 in the southeast (Region 5) to 0.83 in the north (Region 1). The final values determined for each region were:

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Region	Percent of Annual FWS evaporation	
	May-Oct	Nov-Apr
1	80	20
2	80	20
3	78	22
4	79	21
5	73	27

The actual percentages of the annual total that occurred in each of the months May through October was obtained by using the percentages for these months from both the ET and pan evaporation data.

As an example of this calculation, Parma is in Region 3. The May-October FWS evaporation is 35 inches while the annual value is 45 inches. Multiplying the 35 inches by the monthly percentages developed from the ET values gives the monthly FWS evaporation shown below:

	March	April	May	June	July	Aug	Sept	Oct	TOTAL
March-Oct ET	2.72	5.55	7.62	9.35	10.58	8.67	6.45	3.87	54.81
inches									
ET in percent of	6	12	16	20	23	19	14	8	118 %
May-Oct	sum of May-October = 46.64 inches or 100 percent								
FWS in percent of	4	9	12	16	18	15	11	6	91 %
annual									

The May-October period represents 78 percent of the annual FWS total evaporation of 45 inches. Thus if all of the above percentages are multiplied by 0.78 the sum of the May-October percentages is 78 and the sum of the March-October period is 91 percent. Ninety-one percent of the annual FWS evaporation occurs in these eight months leaving nine percent to be distributed over the remaining four months.

By plotting cumulative percentages and assuming that January is the low month at not less than 0.5 percent nor more than one percent, the amounts for these four months can be determined. Figure 3 shows the cumulative percentages for Parma with estimated values for November-February included. The percentages for November through February were estimated simply by extrapolating this cumulative curve. The final annual distribution for Parma is:

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
FWS in percent of	1	1	4	9	12	16	18	15	11	6	5	2

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The second major problem has to do with the energy balance of a pond, in particular, the heat storage (Figure 2). In general, as we move from a pond the size of an evaporation pan to one of several acres, the amount of time it takes to heat or cool the water will result in progressively longer lag times for evaporation. Because of this, any ponds larger than one acre in size and more than six feet deep should be designed with possible lags in mind. Thus the percentages for June, July and August could have some amount moved to the following month so that the highest evaporation occurs in August rather than July. The easiest way to do this is to reverse the percentages for July and August.

The elevation of the design location will also enter into the lagging estimation. The changes in evaporation with elevation were considered when the maps were drawn. However, as elevation increases, there will be a general decrease in air temperature and a slight lag in the time of maximum temperature and evaporation. This is especially true in areas with large amounts of snowcover where the air temperature will not begin to significantly increase with time as fast as in snowfree zones because of the energy necessary to melt the snow.

The designer must use any experience gained from working in an area to help interpret these design percentages and amounts. In addition, since the FWS evaporation maps depict mean annual amounts, the results can be adjusted up or down based upon the factor of safety that is required for a particular pond. Because inflows and precipitation cannot be predicted, the designer must exercise prudent judgement in the pond sizing, including the projected evaporation amounts.

CONCLUSIONS

Due to the large number of ET stations utilized in this analysis and the relatively close statistical fit between stations in each group, the groups specified should be representative of regions with similar ET activity in Idaho. The nine pan evaporation stations fit these regions very well. Therefore, the regional curves developed here should be representative of monthly shallow pond evaporation rates in the various regions and should be very useful in the planning, design, operation, and regulation of shallow ponds in the state of Idaho.

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Bliss Rest Area
Wastewater Balance
Supporting Data

Table 1. Evaporation Data for Bliss Rest Area

Area*	Monthly Evaporation Fractions												Totals
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1	1.5	3	9	12	14	19	18	11	6	4	1.5	100
2	0.5	1.5	3	8	12	15	19	17	11	6	4	3	100
3	0.5	1.5	4	8	14	15	17	16	10	6	5	3	100
4	1	2	4	7	12	15	19	16	11	6	4	3	100
5	1	3	5	10	12	14	16	15	10	6	5	3	100

Ref: Web Page adapted from Molnau, et. Al, "Monthly Shallow Pond Evaporation in Idaho," 1992.

Table 2. Precipitation Data for Bliss Rest Area

Average Precipitation @ Twin Falls												
Twin Falls	January	February	March	April	May	June	July	August	September	October	November	December
Inches	1.14	0.83	1.07	0.95	1.08	0.88	0.3	0.49	0.68	0.72	1.26	1.13

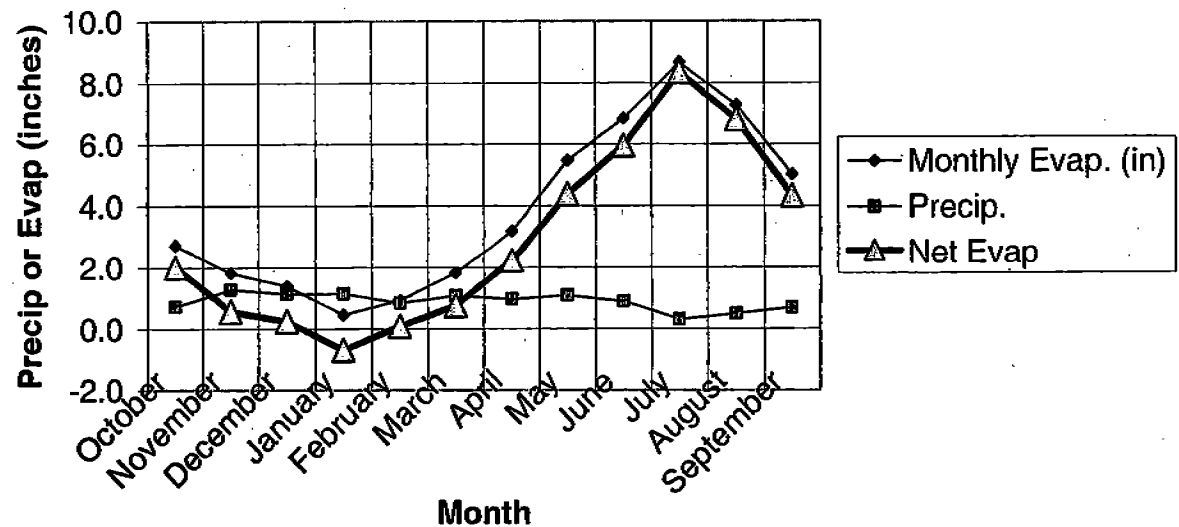
10.53

Ref: Idaho State Climate Services, updated 4/14/00

Table 3. Precipitation Data for Bliss Rest Area

	Monthly Evap. (in)	Precip. (in)	Net Evap (in)
	(in)	(in)	(in)
October	2.7	0.72	2.0
November	1.8	1.26	0.6
December	1.4	1.13	0.2
January	0.5	1.14	-0.7
February	0.9	0.83	0.1
March	1.8	1.07	0.8
April	3.2	0.95	2.2
May	5.5	1.08	4.4
June	6.8	0.88	5.9
July	8.7	0.3	8.4
August	7.3	0.49	6.8
September	5.0	0.68	4.3
	45.5	10.5	35.0

Net Evaporation for Bliss Rest Area



Ref: Monthly Shallow Pond Evaporation in Idaho, ASAE Paper PNW92-111

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Table 4. Traffic Counts

IDAHO TRANSPORTATION DEPARTMENT

TRANSPORTATION PLANNING DIVISION

AUTOMATIC COUNTER VOLUMES BY MONTHS

AVERAGE 24-HOUR TRAFFIC BY MONTHS

Location: I-84 0.5 MILES EAST OF EAST HAMMETT IC

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
1990	6223	6778	8237	8511	9034	10276	10438	10835	9068	8156	8018	6335	8501
1991	6054	7193	8564	8410	9100	10319	10513	11356	9390	8844	8042	7753	8805
1992	7458	8150	9012	9162	9682	11191	11378	11346	10232	9292	8562	7377	9432
1993	6394	7259	8916	9373	9448	11865	12202	12404	10673	9896	8524	7840	9579
1994	7745	8398	10285	10645	11244	12312	12566	12441	10474	9723	9017	8338	10277
1995	7870	8469	9982								9750	8670	
1996	7719	8402	10321	10461	11351	12270	12722	13195	11360	10599	10184	8996	10632
1997	8241	9154	10900	10801	11669	12781	13353	13557	11931	11233	11000	9916	11211
1998	8821	9912	11257	11517	12350	13977	14278	14595	12811	12027	11820	10324	11974
1999	9800	10385	12311	12275	12989	14391	14974	15376	13329	12486	12407	10817	12628
2000	9648	10838	12539	12502	13212	14434	15104	15608	13285	12533	11821	10686	12684
2001	9714	10642	12802	12687									

% of Average for
Year 2000

76% 85% 99% 99% 104% 114% 119% 123% 105% 99% 93% 84%

Location: I-84 2.6 MILES EAST OF JCT SH-46, JEROME

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	AVERAGE
1990	8475	9200	10698	11058	11560	12767	12902	13493	11703	10866	10554	8874	11022
1991	8741	11714	13588	10993	11485	13152	13215	13997	12139	11737	10736	10454	11831
1992	9336	10565	11545	11931	12615	14050	14103	14500	13056	12619	11313	10342	12202
1993	9080	10354	11671	12905	14522	14076	15114	15294	13494	12836	12011	11393	12744
1994	10394	10925	13116	13251	13576	14645	15290	16478	14153	13878	12157	11590	13304
1995	10973	11825	13207	13390	13449		16969	16603	14836	13860	13240	11932	
1996	10469	12331	14284	14590	15197	16141	16652	17132	15238	14514	13815	12650	14418
1997	11847	13182	14806	14668	14819	16458	16838		15823	14818	14539	13918	
1998	12547	13896	15214	15807	16308	17830	18053	18698	16741	16027	15574	14375	15923
1999	13319	14139	16219	16202	16295	17380	18349	19603	17150	16648	16186	14977	16372
2000	13242	14923	16600	16831	17393	18584	19093	19912	17528	16695	15961	15085	16821
2001	13822	14845	16988	16287									

% of Average for
Year 2000

79% 89% 99% 100% 103% 110% 114% 118% 104% 99% 95% 90%

Average for both
locations year 2000

average 77% 87% 99% 99% 104% 112% 116% 121% 104% 99% 94% 87%

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Table 5.

Bliss Rest Area Hydraulic Usage Information

Assumptions			
Capture Rate	15%		Measured by ITD
Usage Rate	80%		Estimate base on ITD Design Memo
Occupant Rate	1.3	people/vehicle	Based on FHWA Rest Area Design Guide
Commercial Rate	37%		Measured ¹
Private Rate	63%		Measured ²
Volume/Occupant	2.8	gal/person	Estimated based on urinal: 0.75-1.5gal/flush, toilets: 1.6gal/flush, wash water: 0.5gal/use
Chemical Toilets	175.0	people/day	Estimated based on 4 PSI supplied chemical toilets that provide 150 uses/pumping and pumped 2x/week. Thus: $4 \times 150 \times 2 = 1200 \text{ uses/week} = 171 \text{ people/day}$

1. Commercial occupants calculated as 36.8% (ITD Traffic Counts) of vehicles.

2. Private occupants calculated as 63.2% (ITD Traffic Counts) of vehicles.

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Table 5
Continued

Year	Average Daily Traffic vehicles/day	Peak Condition Usage vehicles/day	Total Daily WW Flow gal/day	Annual Volume of WW Mgal/year	Two Pond Existing Volume Mgal	Four Pond Existing Volume Mgal	Annual Volume of WW ⁵ acre-feet/year	Required Area ⁶ acre	Planned Area acre
1999 ⁴	12500	1500	4935	1.8	0.98	2.2	5.5	1.9	2.2
2002	14380	1725.6	6236	2.3	0.98	2.2	7.0	2.4	3.8
2003			6507	2.4	0.98	2.2	7.3	2.5	3.8
2004			6778	2.5	0.98	2.2	7.6	2.6	3.8
2005			7049	2.6	0.98	2.2	7.9	2.7	3.8
2006			7320	2.7	0.98	2.2	8.2	2.8	3.8
2007			7591	2.8	0.98	2.2	8.5	2.9	3.8
2008			7862	2.9	0.98	2.2	8.8	3.0	3.8
2009			8133	3.0	0.98	2.2	9.1	3.1	3.8
2010			8404	3.1	0.98	2.2	9.4	3.2	3.8
2011			8675	3.2	0.98	2.2	9.7	3.4	3.8
2012			8946	3.3	0.98	2.2	10.0	3.5	3.8
2013			9217	3.4	0.98	2.2	10.3	3.6	3.8
2014			9488	3.5	0.98	2.2	10.6	3.7	3.8
2015			9759	3.6	0.98	2.2	10.9	3.8	3.8
2016			10030	3.7	0.98	2.2	11.2	3.9	3.8
2017			10301	3.8	0.98	2.2	11.5	4.0	3.8
2018			10572	3.9	0.98	2.2	11.8	4.1	3.8
2019			10843	4.0	0.98	2.2	12.1	4.2	3.8
2020			11114	4.1	0.98	2.2	12.4	4.3	3.8
2021			11384	4.2	0.98	2.2	12.8	4.4	3.8
2022			11655	4.3	0.98	2.2	13.1	4.5	3.8
2023			11926	4.4	0.98	2.2	13.4	4.6	3.8
2024			12197	4.5	0.98	2.2	13.7	4.7	3.8
2025	28750	3450	12468	4.6	0.98	2.2	14.0	4.8	3.8

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Notes

1. Commercial Occupants = (PCU x 1.3 people/vehicle x 37%) - (175people/day x 37%)
2. WW per Day = Occupants x 2.5 gal/person
3. Private Occupants = (PCU x 1.3 people/vehicle x 63%) - (175people/day x 63%)
4. 1999 calculations subtract chemical usage toilets
5. Annual Vol WW = Total Daily Flow(gal/day) / 7.48gal/ft / 43560ft²/acre x 365days/yr
6. Req'd Area = Annual Volume WW / 2.9ft (where 2.9ft = (45.5in evap/yr - 10.5in precip/yr) / (12in/ft))

Reference: 9-Aug-00 Department Memo - Reconstruction of Bliss Safety Rest Areas
ITD 13-Apr-00 Technical Guidance Manual for Individual and Subsurface Sewage Disposal Systems
IDEQ 1982 Gravity Sanitary Sewer Design and Construction
ASCE 1991 Wastewater Engineering

Metcalf
and Eddy 2001 Guide for Development of Rest Areas on Major Arterials and Freeways
AASHTO

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Area Calculations

Pond Areas						
	N West	S West	N East	S East	New West	New East
	sf	sf	sf	sf	sf	sf
Bottom Area of Pond	22100	17100	14000	19600	28190	26231
At 1 ft	24200	19100	16100	21700	30433	28474
At 2 ft	26300	21200	18200	23800	32675	30716
Top Area of Pond	28400	23300	20300	25900	35456	32959
Average	25250	20175	17150	22750	31689	29595

Pond Surface Area Requirements (Evaporation Requirements)							
	Net Evap Depth	Yr WW Inflow		120% of Inflow		Required Area	Existing or Planned Area
	ft	Mgal	ac-ft	MG	Acre-feet	acres	acres
1999	2.9	1.8	5.5	2.2	6.6	2.3	2.2
2002	2.9	2.3	7.0	2.7	8.4	2.9	3.8
2025	2.9	4.6	14.0	5.5	16.8	5.8	3.8

Pond Surface Area Requirements (BOD Requirements)						
	Users ¹	BOD per Capita ²	BOD	BOD Application Rate ³	Required Area ⁴	Existing or Planned Area
		lbs/capita	lbs/day	lbs/ acre/day	acres	acres
1999	1775	0.007	12.4	20	0.6	2.2
2002	2243	0.007	15.7	20	0.8	3.8
2025	4485	0.007	31.4	20	1.6	3.8

1. Calculated from Usage SS

2. Washington State Dept of Transportation

3. Central Health Requirement

4. BOD/BOD application rate