

(Internet)

RECEIVED

SEP 04 2003

Department of Water Resources **70792**
 Transfer No. _____

Page 1 of 5

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT

PART 1

Name of applicant Robert B. Amosson Phone 208-768-2621
Post Office address PO Box 31 Lemhi, ID 83465

A. PURPOSE OF TRANSFER

1. ☒ Change point of diversion ☒ Add diversion point(s) ☒ Change place of use
☐ Change nature of use ☐ Change period of use ☒ Other _____

☐ Change nature of use ☐ Change period of use ☒ Other _____
 2. Describe the reason for the proposed changes To gain elevation needed to
establish a gravity sprinkler system. Add a pod

change in source / Rearrange poll

B. DESCRIPTION OF RIGHT(S) OR PORTION THEREOF, AFTER THE REQUESTED CHANGE

1. Right Number	Priority	Amount (cfs/ac-ft)	Nature of Use	Period of Use
74-281	5/1/1889	3.22 cfs	Irrigation	3/15 to 11/15
				to
				to
				to

2. Total amount of water being transferred 322 cubic feet per second and/or 322 acre-feet per annum.

3. Source of water Ferry Creek & Springs tributary to Mill Creek

4. Point(s) of Diversion:

[illegible]

5. Lands irrigated or place of use:

[illegible]

SCANNED

89.9

PART 1

6. General Information:

a. Description of diversion system Concrete heading with bubbler & pipeline

b. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts? _____ Yes X No. If yes, provide a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes.

c. Describe the affect on the land now irrigated if the place of use is changed pursuant to this transfer:

No change in the place of use.

d. Remarks:

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Transfer of Water Rights No. _____

And said application is hereby _____, subject to the following limitations and conditions:

Witness my hand this _____ day of _____, 19 _____

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Page 1

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

Transfer No. 70792
Receipt No. _____

Current Water Right No. 74-281

Priority Date: 05/01/1889
Origin: Adjudication Claim
Basis: Decreed
Status: Active

Source: MILL CREEK

Tributary to: LEMHI RIVER

Beneficial Use	From	To	Diversion Rate	Volume	Subuse Code
IRRIGATION	3/15	11/15	3.22 CFS		
Total Diversion			3.22 CFS		

Source and Point(s) of Diversion:

MILL CREEK NESW 17N 25E 31 LEMHI

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
17N	25E	31															5.0	5.0		
17N	25E	32								18.0		24.0	25.0		10.0		3.0	26.0	12.0	118.0

Total Acres: 123

Conditions/Remarks:

1. AC. IRR.=89.9.

Documentation of Ownership of the Current Place of Use

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

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

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

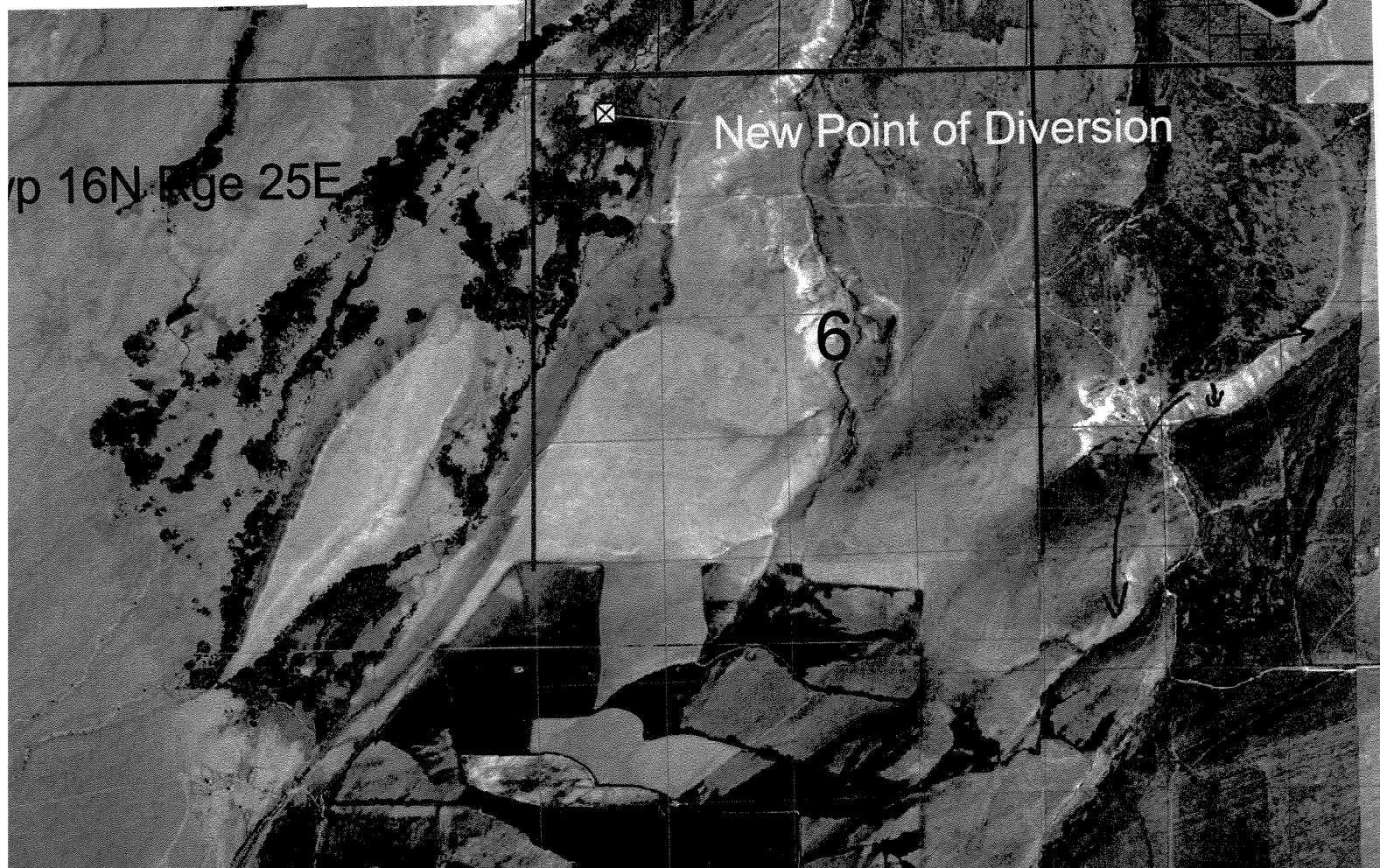
SCANNED

SEP 12 2003

T 70792
page 4 of 5

Twp 17N Rge 25E

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SEP 12 2003



PART 3

B. CHANGES IN NATURE OF USE

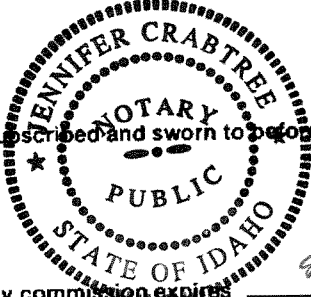
1	New Nature of Use	Amount (cfs/ac-ft)	Hours/days/year	Period of Use
				_____ to _____
				_____ to _____

2. Quantity and quality of return flows and location of discharge:

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

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.

 Subscribed and sworn to before me this 15th day of August, 19 2003.

Robert B. Amerson
(Signature of Applicant)

Jennifer Crabtree
(Notary Public)

My commission expires 9/23/03

FOR DEPARTMENT USE ONLY

Transfer contains 5 pages and 8 attachments

Received by DC Date 9/4/2003 Protest filed by _____

Prelim. check by DC Fee 370 EO 29153

Received by DC Date 9/4/2002

Published in Recorder Herald Copies of protest forwarded by _____

Pub. dates Oct 23 & 30, 2003 Hearing held by _____ Date _____

Watermaster recommendation requested on _____ Recommended for ☒ approval ☐ denial

_____ rec'd. _____ by BDC

Copy of transfer sent to lien holder _____

SCANNED

SEP 12 2003

This letter Authorize's

Bob Amosson To put in
a sprinkler line on The
Freddy Place, in which
~~We are~~ The owner's of The
are property

General Morphy
Rose H. Morphy

July 16, 2003

SCANNED

SEP 12 2003

ATTACHMENT T 70792
1 OF 8

LEMHI COUNTY ASSESSOR
206 COURTHOUSE DRIVE
SALMON, IDAHO 83467
208-756-3116

2003

ASSESSMENT NOTICE

& ESTIMATE OF TAX

THIS IS NOT A BILL.
DO NOT PAY.

PARCEL DESCRIPTION:

SE4 NE4SW4
31 17 25

For any questions, please notify the Assessor's Office immediately.

Assessor's Telephone Number: (208) 756-3116

PARCEL ADDRESS:

AMONSON ROBERT B
& AMONSON MARION DIANE
PO BOX 31
LEMHI ID 83465

Appeals of your property value must be filed in
writing, on a form provided by the County, by:

JUNE 20, 2003

Tax Code Area: 3-0000

Parcel Number: RP 17N25E314800 A

ASSESSED VALUE OF YOUR PROPERTY

CURRENT CATEGORY AND DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
1 IRRGTD AG	1.000 AC	844	844
4 MEADOW	26.000 AC	3,640	3,640
5 DRY GRAZING	173.000 AC	4,563	4,563
SUBTOTAL:	200.000	9,047	9,047
LESS HOMEOWNERS EXEMPTION:		9,047	9,047
NET TAXABLE PROPERTY VALUE:			

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

ESTIMATED PROPERTY TAXES

TAXING DISTRICTS	LAST YEAR'S TAXES	CURRENT YEAR'S ESTIMATED TAXES	PHONE NUMBER	DATE OF PUBLIC BUDGET HEARING
LEMHI COUNTY	26.64	26.64	208-756-2815	09/02/2003
SCHOOL DIST 292	30.06	30.06	208-768-2442	06/09/2003
LEMHI LIBRARY	2.86	2.86	208-756-2311	07/17/2003
SUBTOTAL:	59.56	59.56		
FEES:				
TOTAL PROPERTY TAXES & FEES:	59.56	59.56		

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SEP 12 2003

THIS IS NOT A BILL. DO NOT PAY

See the back of this Notice for details.

Page 1 OF 1

ATTACHMENT

T 70792
2 OF 8

LEMHI COUNTY ASSESSOR
206 COURTHOUSE DRIVE
SALMON, IDAHO 83467
208-756-3116

2003

ASSESSMENT NOTICE
& ESTIMATE OF TAX

THIS IS NOT A BILL.
DO NOT PAY.

PARCEL DESCRIPTION:

T-4445 & FR N2NW4 SW4SW4
32 17 25

For any questions, please notify the Assessor's Office immediately.

Assessor's Telephone Number: (208) 756-3116

PARCEL ADDRESS:

AMONSON ROBERT B
& AMONSON MARION DIANE
PO BOX 31
LEMHI ID 83465

Appeals of your property value must be filed in
writing, on a form provided by the County, by:

JUNE 20, 2003

Tax Code Area: 3-0000

Parcel Number: RP 17N25E320600 A

ASSESSED VALUE OF YOUR PROPERTY

CURRENT CATEGORY AND DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
4 MEADOW	133.581 AC	45,735	45,735
5 DRY GRAZING	43.000 AC	798	798
19 WASTE	5.439 AC		
SUBTOTAL:	182.020	46,533	46,533
LESS HOMEOWNERS EXEMPTION:			
NET TAXABLE PROPERTY VALUE:		46,533	46,533

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

ESTIMATED PROPERTY TAXES

TAXING DISTRICTS	LAST YEAR'S TAXES	CURRENT YEAR'S ESTIMATED TAXES	PHONE NUMBER	DATE OF PUBLIC BUDGET HEARING
LEMHI COUNTY	137.00	137.00	208-756-2815	09/02/2003
SCHOOL DIST 292	154.60	154.60	208-768-2442	06/09/2003
LEMHI LIBRARY	14.68	14.68	208-756-2311	07/17/2003
SUBTOTAL:	306.28	306.28		
FEES:				
TOTAL PROPERTY TAXES & FEES:	306.28	306.28		

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See the back of this Notice for details.

LEMHI COUNTY ASSESSOR
206 COURTHOUSE DRIVE
SALMON, IDAHO 83467
208-756-3116

2003

ASSESSMENT NOTICE

& ESTIMATE OF TAX

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PARCEL DESCRIPTION:

FR N2NW4 SW4NW4 FR
SE4NW4 FR SW4NE4
NW4SW4 W2SE4 NE4SW4
32 17 25

For any questions, please notify the Assessor's Office immediately.

Assessor's Telephone Number: (208) 756-3116

PARCEL ADDRESS:

AMONSON ROBERT B
& AMONSON MARION DIANE
PO BOX 31
LEMHI ID 83465

Appeals of your property value must be filed in
writing, on a form provided by the County, by:

JUNE 20, 2003

Tax Code Area: 3-0000

Parcel Number: RP 17N25E321200 A

ASSESSED VALUE OF YOUR PROPERTY

CURRENT CATEGORY AND DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
1 IRRGTD AG	81.000 AC	61,014	61,014
4 MEADOW	114.000 AC	30,165	30,165
5 DRY GRAZING	98.051 AC	2,036	2,036
19 WASTE	4.949 AC		
SUBTOTAL:	298.000	93,215	93,215
LESS HOMEOWNERS EXEMPTION:		93,215	93,215
NET TAXABLE PROPERTY VALUE:		93,215	93,215

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

ESTIMATED PROPERTY TAXES

TAXING DISTRICTS	LAST YEAR'S TAXES	CURRENT YEAR'S ESTIMATED TAXES	PHONE NUMBER	DATE OF PUBLIC BUDGET HEARING
LEMHI COUNTY	274.42	274.42	208-756-2815	09/02/2003
SCHOOL DIST 292	309.72	309.72	208-768-2442	06/09/2003
LEMHI LIBRARY	29.42	29.42	208-756-2311	07/17/2003
SUBTOTAL:	613.56	613.56		
FEES:				
TOTAL PROPERTY TAXES & FEES:	613.56	613.56		

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SEP 12 2003

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See the back of this Notice for details.

LEMHI COUNTY ASSESSOR
206 COURTHOUSE DRIVE
SALMON, IDAHO 83467
208-756-3116

2003

ASSESSMENT NOTICE
& ESTIMATE OF TAX

THIS IS NOT A BILL.
DO NOT PAY.

PARCEL DESCRIPTION:

N2SE4SW4
N2SE4SE4SW4
32 17 25

For any questions, please notify the Assessor's Office immediately.

Assessor's Telephone Number: (208) 756-3116

PARCEL ADDRESS:

AMONSON ROBERT B
& AMONSON MARION D
PO BOX 31
LEMHI ID 83465

Appeals of your property value must be filed in
writing, on a form provided by the County, by:

JUNE 20, 2003

Tax Code Area: 3-0000

Parcel Number: RP 17N25E326600 A

ASSESSED VALUE OF YOUR PROPERTY

CURRENT CATEGORY AND DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
1 IRRGTD AG	10.000 AC	2,552	3,190
5 DRY GRAZING	15.000 AC	537	459
SUBTOTAL:	25.000	3,089	3,649
LESS HOMEOWNERS EXEMPTION:		3,089	3,649
NET TAXABLE PROPERTY VALUE:		3,089	3,649

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

ESTIMATED PROPERTY TAXES

TAXING DISTRICTS	LAST YEAR'S TAXES	CURRENT YEAR'S ESTIMATED TAXES	PHONE NUMBER	DATE OF PUBLIC BUDGET HEARING
LEMHI COUNTY	9.08	10.74	208-756-2815	09/02/2003
SCHOOL DIST 292	10.26	12.12	208-768-2442	06/09/2003
LEMHI LIBRARY	.98	1.14	208-756-2311	07/17/2003
SUBTOTAL:	20.32	24.00		
FEES:				
TOTAL PROPERTY TAXES & FEES:	20.32	24.00		

SCANNED

SEP 12 2003

THIS IS NOT A BILL. DO NOT PAY.
See the back of this Notice for details.

T 70792

QUITCLAIM DEED

THIS INDENTURE Made this 19 day of ^{June}~~March~~, 2001, between DIANE B. AMONSON, party of the first part, and ROBERT B. AMONSON, party of the second part.

WITNESSETH That the party of the first part, for and in consideration of an equitable division of property in the parties' divorce action, does by these presents remise, release and forever QUITCLAIM unto party of the second part, and to his heirs and assigns all of that certain real property situated, lying and being in the County of Lemhi, State of Idaho, bounded and particularly described as follows, to wit:

A fraction of the SW $\frac{1}{4}$ SW $\frac{1}{4}$ and a fraction of the S $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, all in Section 29, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$, of Section 30, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The SE $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 31, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The NW $\frac{1}{4}$ NE $\frac{1}{4}$, fraction of the S $\frac{1}{2}$ NE $\frac{1}{4}$, fraction of the N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$, fraction of N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, fraction of SE $\frac{1}{4}$ NW $\frac{1}{4}$, fraction of SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, all located in Section 32, Township 17 North, Range 25 East, Boise Meridian.

TOGETHER WITH all improvements located thereon.

TOGETHER WITH all water, water rights, ditch, ditch rights, range, and range rights used in connection therewith.

The above conveyance is made free and clear of all other encumbrances except: Rights of way and easements, reservations in Federal patents and State deeds, or other restrictions imposed by law, building and use restrictions of record, building and zoning regulations and ordinances of any governmental unit.

QUITCLAIM DEED - 1
LAG/QUITCLAIM.DEE

SCANNED

SEP 12 2003

SWAFFORD LAW OFFICE, CHARTERED
ATTORNEY AT LAW
525 NINTH STREET
IDAHO FALLS, IDAHO 83404
(208) 524-4002
FAX (208) 524-4131

ATTACHMENT T 70792
6 OF 8

TOGETHER With all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

TO HAVE AND TO HOLD, All and singular the said premises together with the appurtenances, unto the party of the second part, and to her heirs and assigns forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set his hand and seal the day and year first above written.

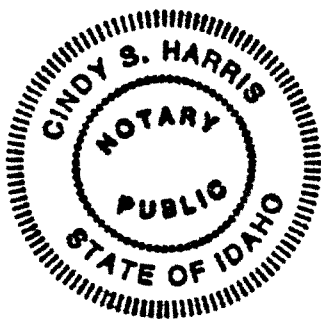
Diane B. Amonson
DIANE B. AMONSON

STATE OF IDAHO)

COUNTY OF BONNEVILLE)

On this 19th JUNE day of March, 2001, before me, a notary public in and for the State of Idaho, personally appeared Diane Amonson, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.



Cindy S. Harris
NOTARY PUBLIC
Residing: CRIGBY
Commission expires: 10/06/03

State of Idaho) SS No 247532
County of Lemhi

This instrument was filed for record at the request of Cooper et al

at 1:35 o'clock p.m. 12 July 2001

and duly filmed and indexed in the records of Lemhi County

Terri J. Morton
Ex-Officio Recorder

By KB Deputy
Fee \$6.00

Return to 770 S. Woodruff, D.F. ID 83401

QUITCLAIM DEED - 2
LAG

T 70792
ATTACHMENT 7 OF 8

SWAFFORD LAW OFFICE, CHARTERED
ATTORNEY AT LAW
525 NINTH STREET
IDAHO FALLS, IDAHO 83404
(208) 524-4002
FAX (208) 524-4131

SCANNED

SEP 12 2003

Robert Amouson
PO Box 31
Lemhi, ID
83465

208 768-2621

9/3/03

Dear Sir;

Please find enclosed an application for a change of point of diversion which will allow installation of a gravity sprinkler system. Also enclosed are a letter from Gerald and Rose Morphy giving permission to locate the new diversion on their property, tax notices showing my ownership of the property being irrigated, and a copy of the quit claim deed from my exwife following our divorce.

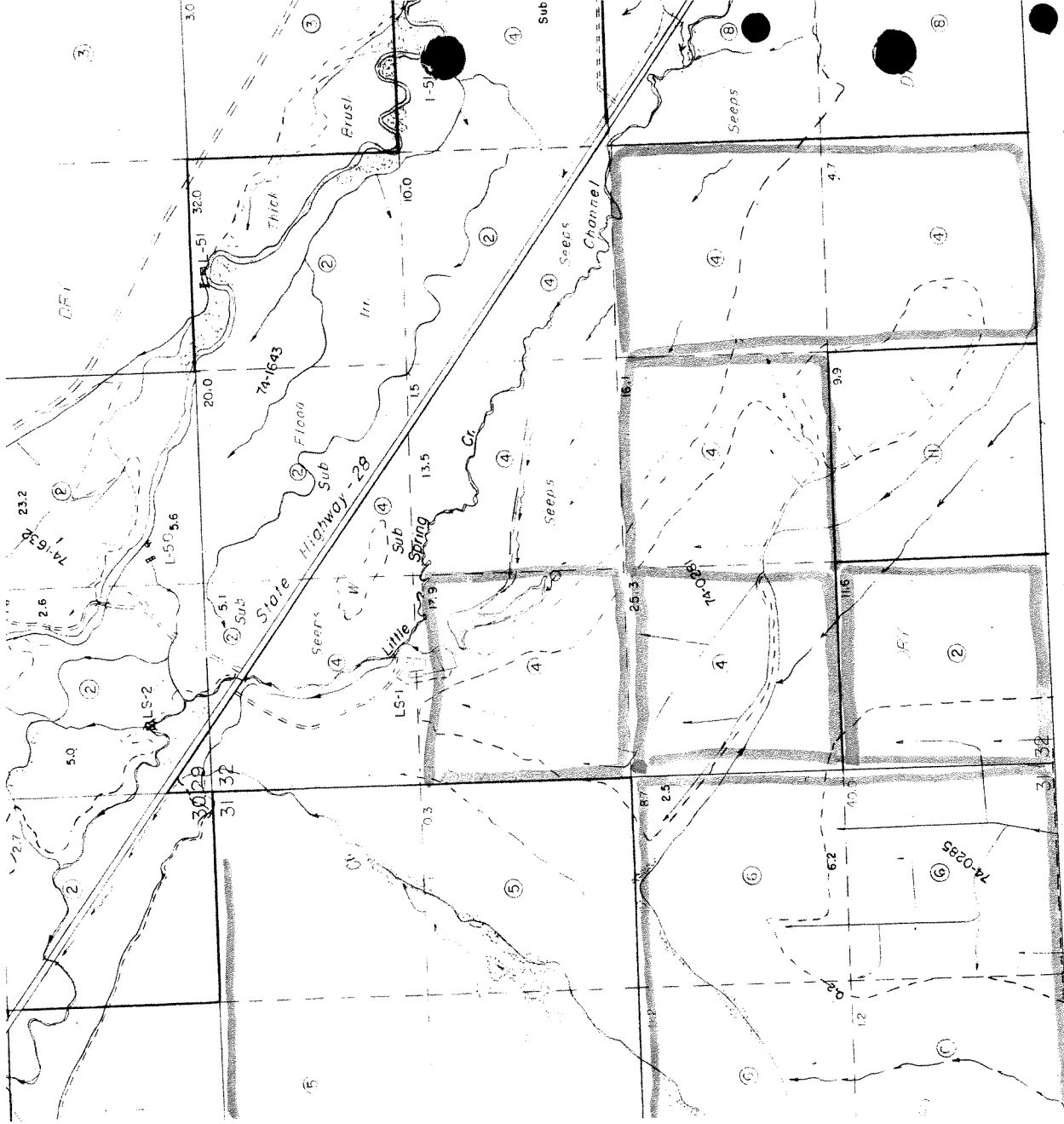
If you have any questions or need more information, Please contact me at the above address.

Sincerely

Robert Amouson

SCANNED

SEP 12 2003



SECOND CORRECTED QUITCLAIM DEED

THIS INDENTURE Made this 14 day of October, 2003, between

MARION DIANE AMONSON, party of the first part, and ROBERT B. AMONSON,
party of the second part.

WITNESSETH That the party of the first part, for and in consideration of an equitable division of property in the parties' divorce action, does by these presents remise, release and forever QUITCLAIM unto party of the second part, and to his heirs and assigns all of that certain real property situated, lying and being in the County of Lemhi, State of Idaho, bounded and particularly described as follows, to wit:

A fraction of the SW $\frac{1}{4}$ SW $\frac{1}{4}$ and a fraction of the S $\frac{1}{2}$ SW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, all in Section 29, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$, of Section 30. Township 17 North, Range 25 East, Boise Meridian.

ALSO: The SE $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 31, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The NW $\frac{1}{4}$ NE $\frac{1}{4}$, fraction of the S $\frac{1}{2}$ NE $\frac{1}{4}$, fraction of the N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$, fraction of N $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$, fraction of SE $\frac{1}{4}$ NW $\frac{1}{4}$, fraction of SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, all located in Section 32, Township 17 North, Range 25 East, Boise Meridian.

ALSO: The N $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, of Section 32, Township 17 North, Range 25 East, Boise Meridian.

EXCEPTING THEREFROM:

A parcel of land located at the SE $\frac{1}{4}$ NW $\frac{1}{4}$, July 14, 2003 Section 30, T. 17 N., R. 25 E., B.M., Lemhi County, Idaho, more specifically described as follows:

Commencing at the East Quarter Corner of said Section 30, from which the Northeast Section corner bears N. 0°15'04" W., a distance of 2828.75 feet on a bearing of N. 69°35'02" W. To a point on the Southerly Right-of-Way of the County Road and the REAL POINT OF BEGINNING.

From this REAL POINT OF BEGINNING, a distance of 151.39 feet on a bearing of N. 75°57'17" W. Along said County Road;

Thence S. 26°37'38" E., 127.98 feet;

Thence N. 89°11'29" E., 14.88 feet;

Thence S. 33°44'14" E., 137.19 feet;

Thence No. 0°28'17" W., 191.55 feet to the REAL POINT OF BEGINNING, said parcel contains 0.35 Acres.

TOGETHER WITH all improvements located thereon.

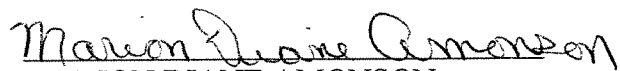
TOGETHER WITH all water, water rights, ditch, ditch rights, range, and range rights used in connection therewith.

The above conveyance is made free and clear of all other encumbrances except: Rights of way and easements, reservations in Federal patents and State deeds, or other restrictions imposed by law, building and use restrictions of record, building and zoning regulations and ordinances of any governmental unit.

TOGETHER With all and singular the tenements, hereditaments and appurtenances thereunto belonging or in anywise appertaining, the reversion and reversions, remainder and remainders, rents, issues and profits thereof.

TO HAVE AND TO HOLD, All and singular the said premises together with the appurtenances, unto the party of the second part, and to her heirs and assigns forever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set his hand and seal the day and year first above written.

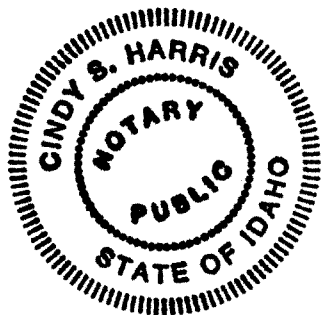

MARION DIANE AMONSON

STATE OF IDAHO)

COUNTY OF BONNEVILLE)

On this 14 day of October, 2003, before me, a notary public in and for the State of Idaho, personally appeared Marion Diane Amonson, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that she executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.



Cindy S. Harris
NOTARY PUBLIC
Residing: RIGBY
Commission expires: 10/06/03

State of Idaho)
County of Lemhi) SS No. 256367

This instrument was filed for record at the request
of Swafford & Duffen
at 9:21 o'clock a.m. 10-20 2003

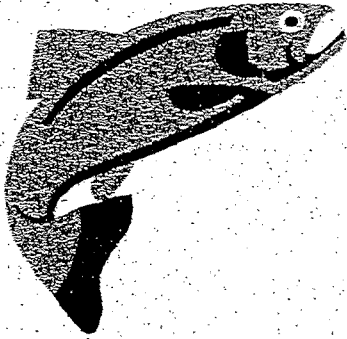
and duly filmed and indexed in the records of Lemhi
County

Terri J. Morton
Ex-Officio Recorder

By Sherrida Cutoring Deputy

Fee 9.00

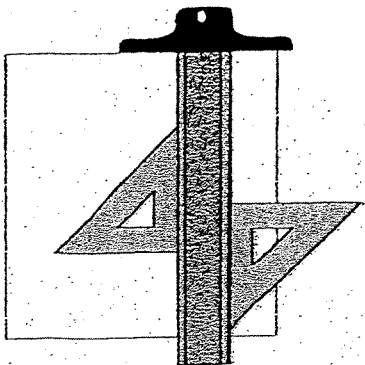
Return to Swafford & Duffen



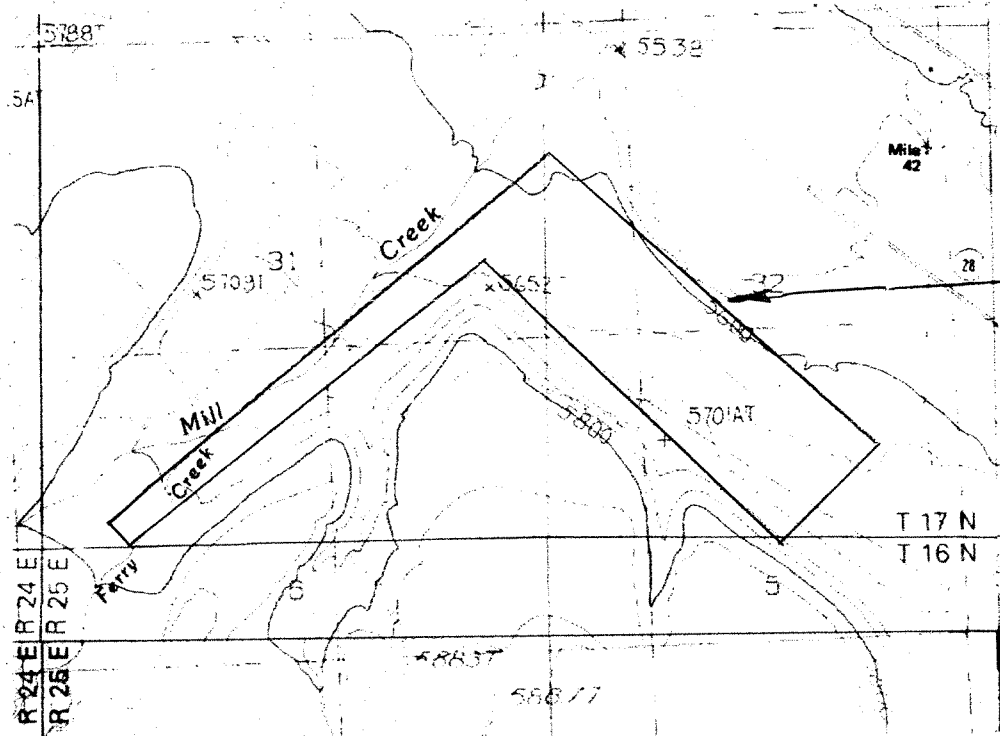
DRAWINGS AND SPECIFICATIONS

Project: Gravity Sprinkler System

Prepared For: M. Beyeler / B. Amonson



Location Map



Scale
1:24,000
SEC 31+32
T17NR25
Project
Locatio

U.S. Department of Agriculture
Natural Resources Conservation Service

Salmon Project Office

SCANNED
NOV 24 2003

NATURAL RESOURCES CONSERVATION SERVICE
Idaho
CONSTRUCTION SPECIFICATIONS
FOR
IRRIGATION WATER CONVEYANCE
HIGH PRESSURE UNDERGROUND PLASTIC

Amonson/Beyeler
 (Owner/Operator)

Gravity Sprinkler
 (Project/Title)

GENERAL

This specification covers the installation and materials for high-pressure plastic pipe 18 inch diameter and smaller. Pipelines shall be installed in accordance with a design and plan approved by the responsible technician. Details of construction shown in the design and plan but not included here shall be considered as a part of this specification. Construction activities shall be in accordance with applicable OSHA regulations.

TRENCH CONSTRUCTION

Trench width at any point below the top of the pipe should be only wide enough to permit the pipe to be easily placed and joined and to allow the initial backfill material to be uniformly placed under the haunches and sides of the pipe. The maximum trench width shall be 30 inches greater than the diameter of the pipe. The minimum trench width shall be not less than two pipe diameters, unless the trench is precision excavated with a semicircular bottom that closely fits the pipe and the width does not exceed the outside diameter of the pipe by more than 10 percent. Trench banks that are more than 5 feet high shall be shored or sloped. Refer to Figure 1 for typical trench details.

Where rock, hardpan, cobbles or other hard material which might prevent the pipe from being uniformly supported is encountered in the bottom of the trench, the trench shall be undercut a minimum of four inches below final grade. The over cut area of the trench will then be filled with sand or fine-grained soil.

BEDDING

The pipe shall be firmly and uniformly bedded throughout its entire length. Bedding material shall be placed and spread in uniform layers and in such a manner as to fill the trench so there are no unfilled spaces below the pipe. For pipe with bell joints, holes shall be dug in the bedding at the bells to permit the body of the pipe to be in contact with the bedding along its entire length. Blocking or mounding shall not be used to bring the pipe up to final grade.

PIPE INSTALLATION

Pipe shall be the diameter, length, material and pressure class as specified on the drawings.

The pipe shall not be dropped into the trench or handled in a manner to cause damage.

Individual joints of pipe shall be inspected and any damaged pipe shall be removed and replaced. The pipe will be allowed to come within a few degrees of the temperature it will have after it is completely backfilled before placing fill other than that needed for shading or before connecting the pipe to other facilities.

Hand, mechanical or water packing are optional methods for placing and compacting pipe backfill.

Initial Backfill. The initial backfill material shall be soil or sand that is free from rocks, gravels, frozen materials larger than 1 inch or earth clods greater than 2 inch in diameter. This may be the on site trench excavated materials as long as any unsuitable materials are removed. The initial backfill materials shall be placed in a manner as not to displace, deform or damage the pipe.

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 February, 2000

When backfilling is done by hand or mechanical means the initial fill shall be compacted firmly around and above the pipe to achieve a soil density equal or greater than the density of the undisturbed side walls of the trench. The thickness of individual lifts prior to compaction shall not exceed 6 inches.

When water packing is used, the pipe shall be filled with water. The initial backfill, before wetting, shall be of sufficient depth to ensure complete coverage of the pipe with backfill after consolidation has taken place. Water packing shall be accomplished by adding water to diked reaches of the trench in such quantity as to thoroughly saturate the initial backfill. After the backfill is saturated, the fill shall be consolidated by rodding or with a vibrator. The wetted fill shall be allowed to dry until firm before completing the final backfill. The pipeline shall remain full of water until after the final backfill is placed.

Final Backfill. The final backfill material shall be free of rocks, frozen clods or other debris larger than 1 inch in diameter within 6 inches of the pipe and 6 inches in particle size for the remaining portion of the final backfill unless otherwise specified on the drawings. The material shall be placed and spread in approximately uniform layers so there are no unfilled spaces in the backfill. Rolling equipment shall not be used until a minimum of 18 inches of compacted backfill material has been placed over the top of the pipe and then only on pipe having a wall thickness greater than that of SDR-41. Final backfill may be mounded over the top of the trench above ground level, but in no case shall the final backfill be lower than the natural ground along the top of the trench.

All special backfilling requirements of the pipe manufacturer shall be followed.

Cover. The minimum depth for backfill over the top of the pipe is:

18 inches for pipe 1/2 inch through 2 1/2 inch in diameter

24 inches for pipe 3 inch through 5 inch in diameter

30 inches for pipe 6 inch diameter and larger

At low places on the ground surface or at locations where it is shallow to rock, extra fill may be placed over the pipeline to provide the minimum depth of cover. In such cases, the top width of the fill shall be no less than 10 feet and the side slopes no steeper than 6 horizontal to 1 vertical.

Vertical alignment of pipe shall be uniform and such as to maintain the cover requirements unless otherwise noted on the drawings. If irregular grades are required, thrust blocks, air releases, drains and other appurtenances as needed shall be installed.

Thrust Blocks. Thrust blocks shall be formed against a solid trench wall. They shall be of the minimum size and materials as specified on the drawings.

Joints and Connections. All joints and connections shall be constructed to withstand the design working pressure for the pipeline without leakage and shall leave the inside of the pipeline free of any obstruction which could reduce the pipe capacity below design requirements, except that insert fittings for joining PE pipe are permitted.

All fittings, such as couplers, reducers, bends, tees and endives shall be made of material that is recommended for use with the type of pipe specified and shall be installed in accordance with the recommendations of the pipe manufacturer. Fittings made of steel or other materials susceptible to corrosion shall (1) be wrapped with plastic tape meeting the requirements of AWWA C 209 for Type I or II tape, or (2) coated with coal-tar epoxy paint (Kippers-Bitumastic No. 300-M is an approved off the shelf product), or (3) painted with one coat of urethane primer applied at a rate of 2 to 3 mils thick and two or more coats of gloss or semi-gloss Alkyd Enamel to provide a minimum thickness of 6 mils or (4) coated with epoxy paint in accordance with the Steel Structures Council (SSPC) Paint Specification # 16.

Pipelines with solvent welded joints shall have expansion-contraction couplers as indicated on

the drawings. Couplers shall have a minimum length of 14 inches.

Solvent for solvent cement joints shall conform to ASTM D 2564 for PVC pipe and fittings, to ASTM D 2235 for Acrylonitrile-Butadiene-Styrene pipe and fittings.

Rubber gaskets shall conform to ASTM D 3139.

MATERIALS

Quality of Plastic Pipe. The compound used in manufacturing the pipe shall meet the requirements of one of the following materials:

1. Polyvinyl chloride (PVC) as specified in ASTM D 1784 for Type I, Grade 1 or Type I, Grade 2 or Type II, Grade 1.
2. Acrylonitrile-butadiene-styrene (ABS) as specified in ASTM D 1788 for Type I, Grade 2 or Type I, Grade 3 or Type II, Grade 1.
3. Polyethylene (PE) as specified in ASTM D 1248 for Grade P14, Class C or Grade P23, Class C or Grade P33, Class C or Grade P34, Class C.

Pipe shall have a maximum standard dimension ratio (SDR) of 51. Iron pipe size (IPS) plastic pipe and I.D. controlled PE pipe meeting one of the following ASTM specifications are acceptable under this Practice Standard.

ASTM	SPECIFICATION
D 1785	Polyvinyl Chloride Plastic Pipe, Schedule 40, 80 and 120
D 2241	Polyvinyl Chloride Pressure Rated Pipe
D 2672	Joints for IPS PVC Pipe Using Solvent Cement
D 2740	Polyvinyl Chloride Plastic Tubing
D 1527	Acrylonitrile-Butadiene-Styrene Plastic Pipe, Schedules 40 and 80
D 2282	Acrylonitrile-Butadiene-Styrene Plastic Pipe
D2104	Polyethylene Plastic Pipe, Schedule 40
D 2239	Polyethylene Plastic Pipe Based on Controlled Inside Diameter
D 2447	Polyethylene Plastic Pipe, Schedules 40 and 80, Based on Outside Diameter
D 2737	Polyethylene Plastic Tubing
D 3035	Polyethylene Plastic Pipe Based on Controlled Outside Diameter
F 771	Polyethylene Thermoplastic High-Pressure Irrigation Pipeline Systems

Plastic irrigation pipe (PIP) shall meet the requirements of ASTM D 2241 or of ASTM D 2282 except that:

1. The outside diameters, wall thicknesses and tolerances in ASAE S376.1 "Design Installation and Performance of Underground, Thermoplastic Irrigation Pipe" shall apply.
2. The minimum burst pressure requirements for water at 23 degrees C for PVC 1120 and 1220 plastic pipe, SDR 51 is 260 lb/in² and for ABS plastic pipe SDR 32.5 and SDR 41 is 380 and 300 lb/in².

Plastic pipe shall be marked with nominal pipe size (for example 10 in), applicable material designation code (for example PVC 1120), pressure rating for water at 23 degrees C, specification designation with which the pipe complies and manufacture's name or trademark.

Valves and Appurtenances. The pipeline valves and appurtenances shall be of the size, type, material and pressure rating as shown on the drawings. Unless otherwise shown on the drawings all Butterfly valves shall be equipped with geared operators. Air and vacuum relief valves and/or combination air and vacuum relief valves shall be installed at locations shown on the drawings.

Pressure relief valves shall be stamped with the pressure at which the valve starts to open. Adjustable valves shall be sealed or otherwise altered to insure that the setting marked on the valve is not changed.

Check valves shall be rated as quick-closing, non-slamming.

TESTING

When water is available at the time the pipe is being installed the system shall be given an operational test. This test shall consist of filling the pipe with water, taking care to bleed of any air in the pipe. All of the system components shall operate without difficulty. Leakage or defects caused by poor materials or

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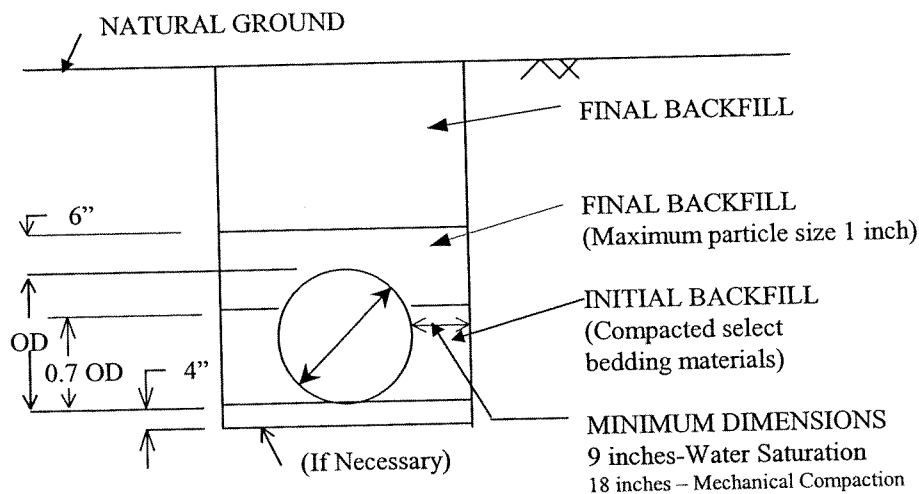
workmanship shall be replaced or repaired. When water is not available to complete a test, the installer shall provide a guarantee stating they will return and fix leaks that are found when the pipe is initially filled with water.

GUARANTEE

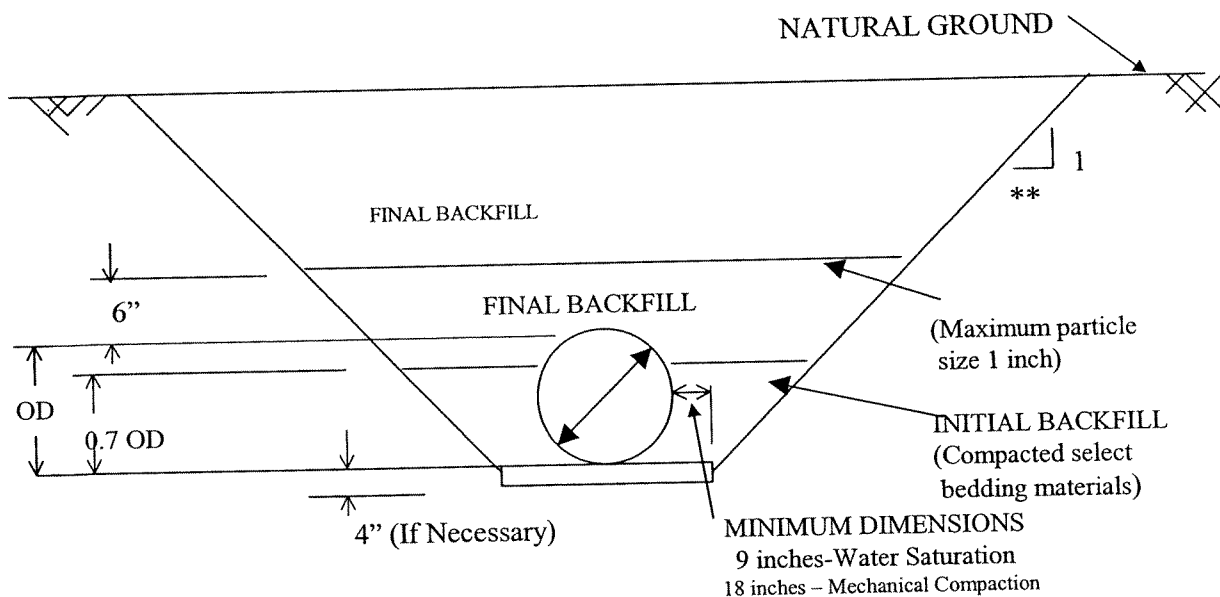
The installing Contractor shall certify that the installation conforms to the requirements of this specification and furnish a written guarantee protecting the landowner against defective materials and workmanship for a period of less not than 1 year. The guarantee will identify manufacturer of pipe and pipe markings.

ADDITIONAL SPECIFICATIONS

FIGURE 1
TRENCH WIDTH AND BACKFILL REQUIREMENTS



TYPICAL TRENCH DETAIL
5 FT DEPTH, MAXIMUM



ALTERNATIVE TRENCH DETAIL
DEPTH GREATER THAN 5 FEET

** Slope typically varies from $\frac{3}{4}$ to $1\frac{1}{2}$:1 or greater based upon material classification and other factors such as wetness, vibration, surcharge, etc. Refer to OSHA Subpart P for details.

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February, 2000

NATURAL RESOURCES CONSERVATION SERVICE
Idaho
CONSTRUCTION SPECIFICATIONS
FOR
STRUCTURE FOR WATER CONTROL
(PIPE STAND)

Amonson / Beyeler
 (Owner/Operator)

Gravity Sprinkler
 (Project Title)

GENERAL

Installation shall be in accordance with an approved design and plan. Details of construction shown on the drawings but not included herein are considered as a part of this specification. Construction activities shall be in accordance with applicable OSHA regulations.

EXCAVATION

The foundation area will be cleared of all roots, brush, sod and debris. The cut-off trench and wing wall trench shall be excavated to allow the placement of the structure to the lines and grades shown on the drawings or as staked in the field. Any over-excavation will be backfilled with select material and compacted to the density of the surrounding material. The structure shall be placed on a firm foundation. Unsuitable materials shall be removed.

PIPE MATERIALS

Corrugated steel pipe shall be metallic zinc coated, aluminum coated, or aluminum-zinc alloy coated conforming to the requirements of ASTM A 742, A 760, A 761, A 762, A 849, A 875, A 885, and A 929 for the specified type, class, fabrication of pipe and coating. Polymer-coated pipe, unless otherwise specified on the drawings or under ADDITIONAL SPECIFICATIONS, shall be coated on each side with a minimum thickness of 0.01 inches (10 mils), designated as grade 10/10 in ASTM A 762.

Aluminum corrugated pipe shall conform to the requirements of ASTM B 745, B 746 or B 790 for the specified pipe sheet thickness, shape

type, and fabrication method. Bituminous coatings when specified shall conform to the requirements of ASTM A 849.

Concrete pipe shall conform to the requirements of ASTM C 14, C 76, C 118 or C 505 for the type of pipe specified.

Other pipe materials shall meet the requirements as listed in the ADDITIONAL SPECIFICATIONS or as shown on the drawings.

CONCRETE

Concrete work under these specifications shall be constructed to the dimensions, lines, and grades as shown on the drawings.

Concrete compressive strength shall be at least 3000 psi at 28 days. The mix design shall be in accordance with ASTM C 94 and this specification. The concrete shall be proportioned to include not less than 5 sacks cement per cubic yard of concrete when a water reducing admixture is used, except fly ash may be used as substitution for not greater than 20 percent of the Portland cement. Ready-mix concrete suppliers can precertify their concrete mix. When a precertified mix is used the mix number will be shown on the concrete delivery ticket. Non certified ready-mix suppliers shall furnish mix design and concrete cylinder test break data for Technician or Engineer approval prior to placement.

Cement shall be low alkali Type II or IIA Portland cement.

Fly ash shall conform to requirements of ASTM C 618 as applicable.

Water reducing admixtures shall be Type "A" meeting the requirements of ASTM C 494.

Coarse aggregate shall be maximum size of 1-1/2 inches per designations in ASTM C 33.

Air entrainment conforming to the requirements of ASTM C 260, shall be used. The air content shall be 5 to 7 percent.

Forms shall conform to the shapes, lines, and dimensions as shown on the drawings. They shall be braced and/or tied together so as to maintain position and shape and be sufficiently tight to prevent leakage of mortar. Forms shall be thoroughly oiled or wetted and cleaned of debris prior to placement of concrete. Forms shall not be removed without the approval of the Technician.

Reinforcing steel deformed bars shall meet the requirements of ASTM A 615 and welded wire reinforcement shall meet the requirements of ASTM A 185. All reinforcement shall be free from rust, oil, grease, paint or other deleterious matter. Items to be embedded in the concrete shall be positioned accurately and firmly anchored to prevent displacement during placement of concrete. The minimum splice length for deformed bars is 30 bar diameters and for welded wire mesh the larger of 6 inches or 2 mesh spacings.

Snap ties shall be equipped with cones, she-bolts or other devices that permit their removal to a depth of at least 1-inch without injury to the concrete.

Concrete shall be deposited as closely as possible to its final position and shall be worked into the corners and angles of the forms and around all reinforcement and embedded items in a manner to prevent segregation of aggregates or excessive laitance. Consolidation of concrete shall be accomplished by means of internal type mechanical vibrators, rodding, spading, or hand tamping. Concrete slump shall be in the range of 3 inches plus or minus 1 inch, unless cylinder test break data is submitted showing that compressive strength can be achieved with the higher slump.

Joints shall be located as specified on the drawings. When specified waterstops shall be placed in each joint. The waterstop shall be non-metallic. Installation shall be in accordance with specific manufacture specifications. The waterstop shall be anchored to prevent displacement during placement of concrete.

Finishing. After the concrete has been consolidated, the unformed surfaces shall be given a wood float finish. Immediately after form removal, formed surfaces shall be cleaned of all defective concrete and effectively repaired. Snap ties shall be removed and the holes mortared.

Protection and Curing. Concrete shall be prevented from drying for a curing period of at least 7 days after it is placed. Exposed surfaces shall be kept continuously moist for the entire period. For formed surfaces, the protection may be accomplished by leaving the forms in place and keeping them wet for the entire curing period. Moisture shall be maintained by sprinkling, flooding, or fog spraying or by covering with continuously moistened canvas, cloth mats, straw, earth, or other approved material. In lieu of water curing, the concrete shall be cured by spraying with an approved sealing compound. The sealing compounds shall be applied as soon as practicable after the concrete is finished. Sealing compounds shall meet or exceed the requirements of ASTM C 309. All surfaces shall be kept moist until the compound is applied.

Concreting in Cold Weather. Before any concrete is placed, all ice, snow and frost shall be completely removed from all surfaces to be in contact with the new concrete and the temperature of these surfaces shall be raised to as close as may be practical to the temperature of the new concrete that is to be placed thereon. No concrete shall be placed on a frozen subgrade or on one that contains frozen materials. Concrete shall not be mixed or placed when daily minimum atmospheric temperature is less than 40 degrees F., unless facilities are provided to ensure the adequate protection of the concrete. Temperature of the concrete at the time of placing shall not be less

than 50 degrees F. nor more than 90 degrees F.
The use of accelerators or antifreeze compounds will not be allowed.

BACKFILL

Backfill materials shall be free of rocks, stones, sod, brush, roots, or other perishable or unsuitable material. Cobble and rock fragments having a maximum dimension of more than three inches shall not be used within 1 foot of the structure. To the extent they are suitable excavated materials will be used to complete necessary backfills.

The moisture content of fill material shall be maintained within the limits required to prevent the adherence of the fill material to the treads and tracks of equipment and ensure the crushing and blending of the soil clods. Generally when soil material is squeezed in the hand it will retain a ball shape, but there will not be free water on the surface. Supplemental water, when required, shall be applied to get water uniformly dispersed throughout the fill materials.

Fill placed around structures will be brought up at approximately uniform height on all sides of the structure. Hand directed tamper compacted fills shall be placed in layers not exceeding 4 inch thickness prior to being compacted. The backfill material shall be compacted to a density equal to that of the adjacent ground. Heavy compaction equipment shall not be operated within 2 feet of any structure. Hand directed tampers or compactors shall be used on areas not accessible to heavy compaction equipment and within 2 feet of any structure. The passage of heavy equipment will not be allowed over any type of conduit until the compacted backfill has been placed a minimum of two feet over the top of the pipe. The layer thickness for equipment compacted fills shall not exceed 8 inches prior to compaction.

Compaction of backfill adjacent to structures shall not be for at least 10 days after the placement of concrete.

METAL ITEMS

Metal used for gratings, screens, frames for openings, etc. shall be "merchant" or "commercial" quality unless otherwise noted. All steel members shall be painted with two coats of synthetic primer paint and one coat of aluminum paint or equivalent protective coatings.

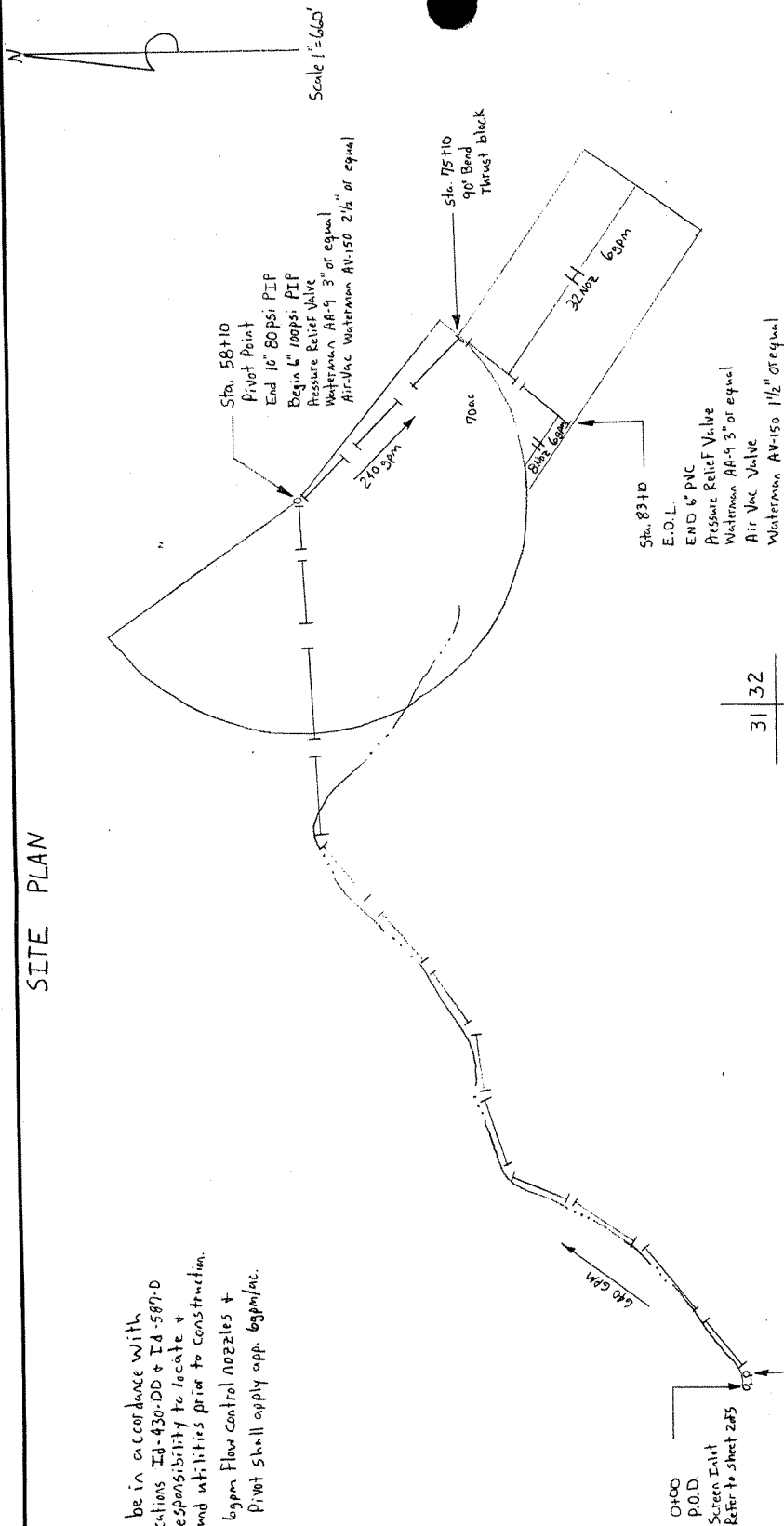
CLEAN-UP

The site shall be cleared of all unused materials, forms etc. needed for the construction.

ADDITIONAL SPECIFICATIONS

SITE PLAN

- Notes:
- 1) Construction shall be in accordance with Construction Specifications Id-430-DD & Id-587-D
 - 2) It is the owner's responsibility to locate & protect all underground utilities prior to construction.
 - 3) Handlines shall have 6gpm Flow control nozzles & be on 1 1/2 hr Sets. Pivot shall apply app. 6gpm/ac.

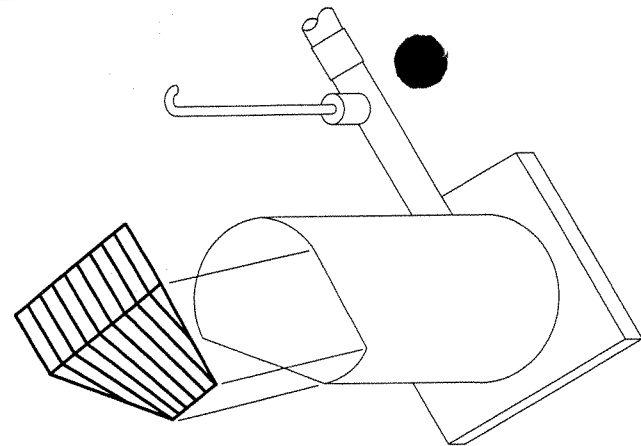


36	31
1	6

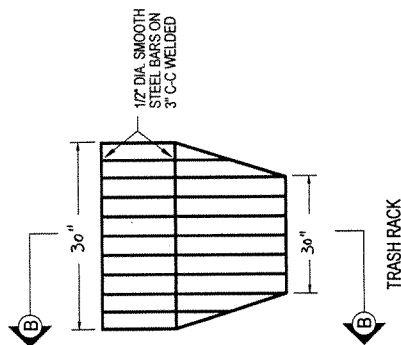
31	32
6	5

Beyer/Amanson Gravity Sprinkler Lemhi SCD, Lemhi Co., Idaho United States Department of Agriculture Natural Resources Conservation Service	
Designed By: <u>DFG</u> Drawn By: <u>DFG</u> Reviewed By: <u>7/02</u> Approved By: <u>7/02</u> File Name: <u>7/02</u>	Job Class: <u>II</u> Sheet: <u>1</u> of <u>5</u> Scale: None

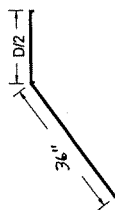
CONCRETE FLOOR
OR 3/16" THICK PLATE
STEEL WELDED TO PIPE



ISOMETRIC.



SECTION B-B

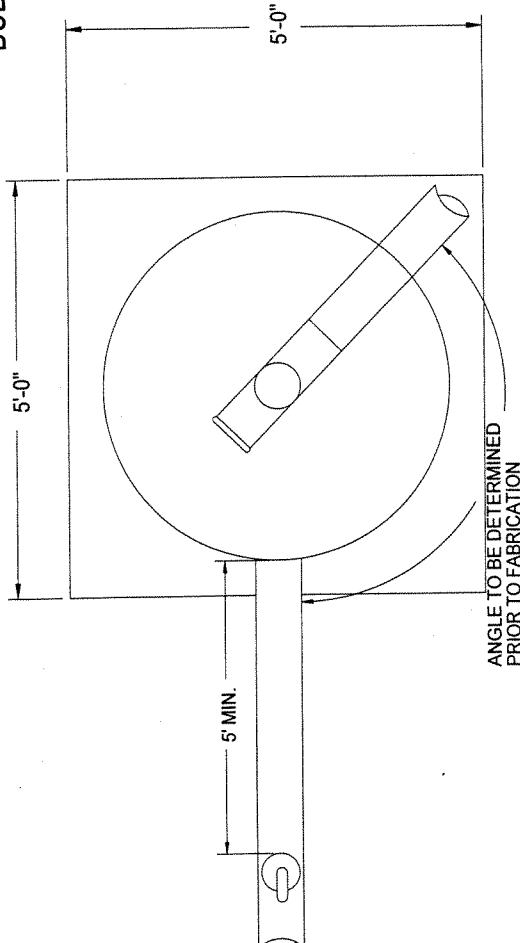


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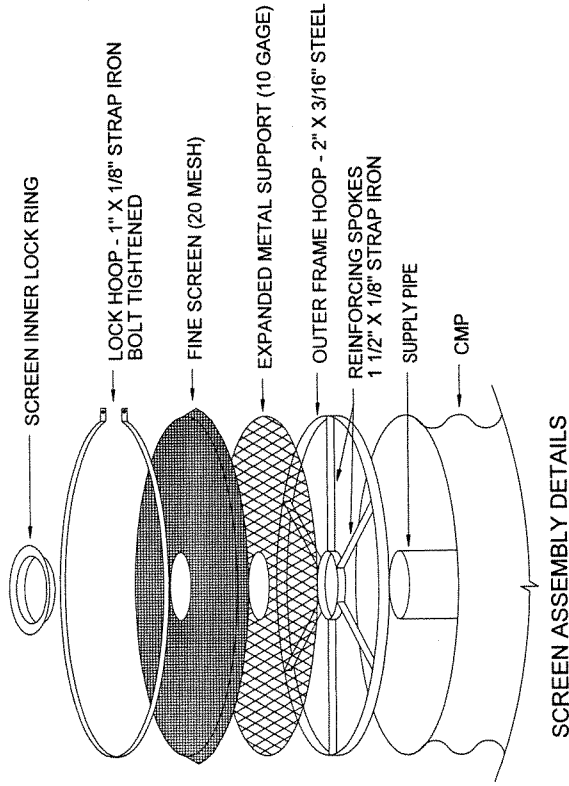
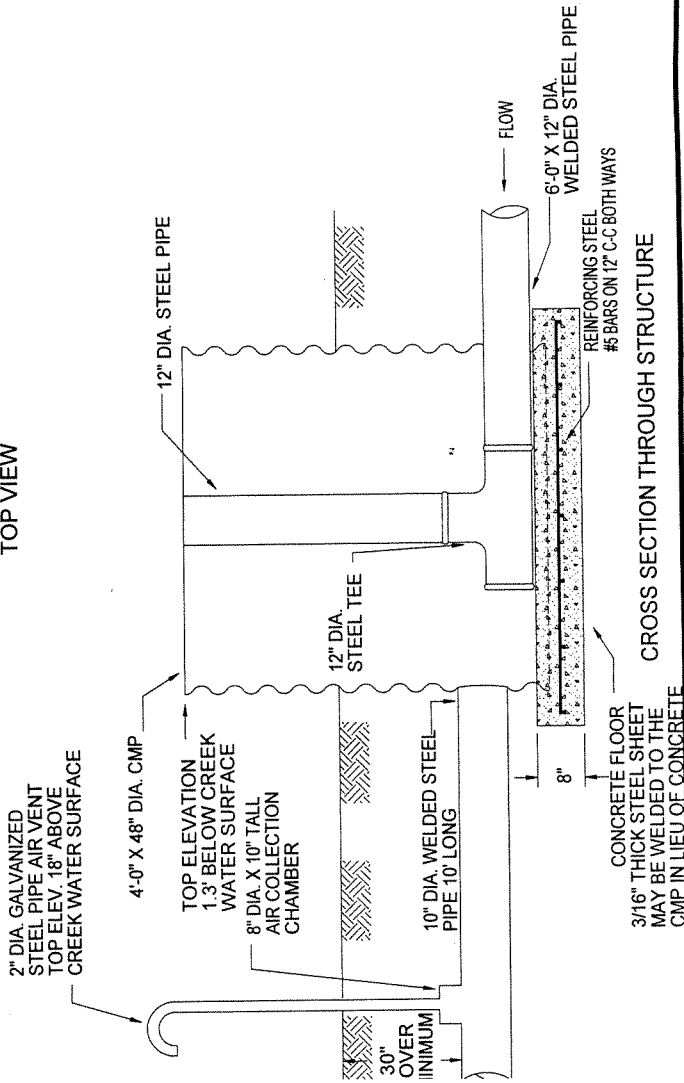
- 1) Set Weir crest 6" below design W.S. (minimum)
Crest should be 2" minimum above creek bottom
- 2) Install 12" canal gate on 12" pipe -

COOPERATOR: Bryker / Amerson
PIPE INLET STRUCTURE DETAILS
Leach SWCD Leach CO. IDAHO
UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
DATE: 7/6/2
DESIGNED BY: DEG
DRAWN BY: _____
REVIEWED BY: _____
APPROVED BY: _____
FILE NAME: INLETSTD JOB CLASS: II
SCALE: NONE SHEET 2 OF 5

BUBBLER DETAIL



TOP VIEW

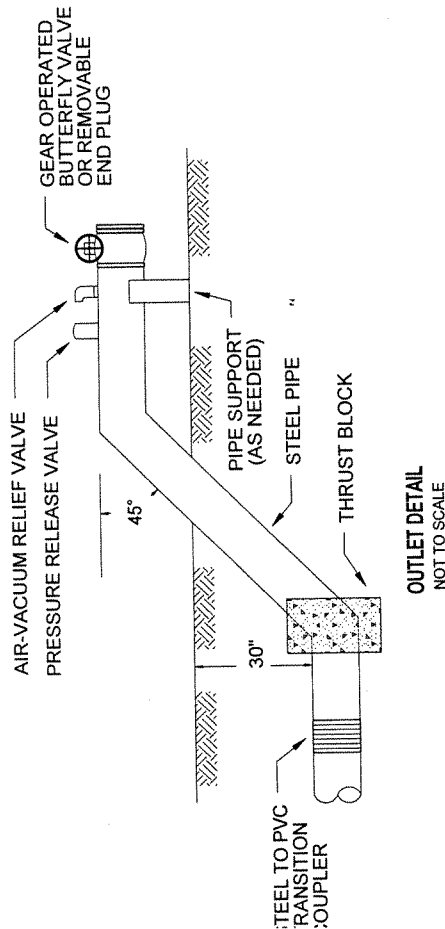
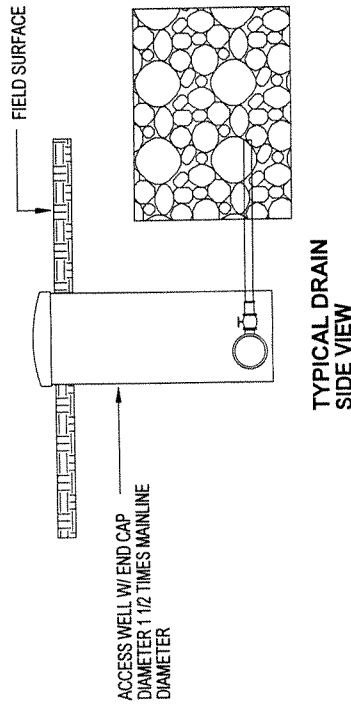
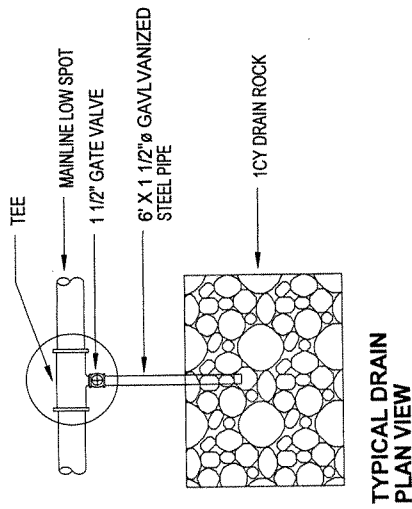
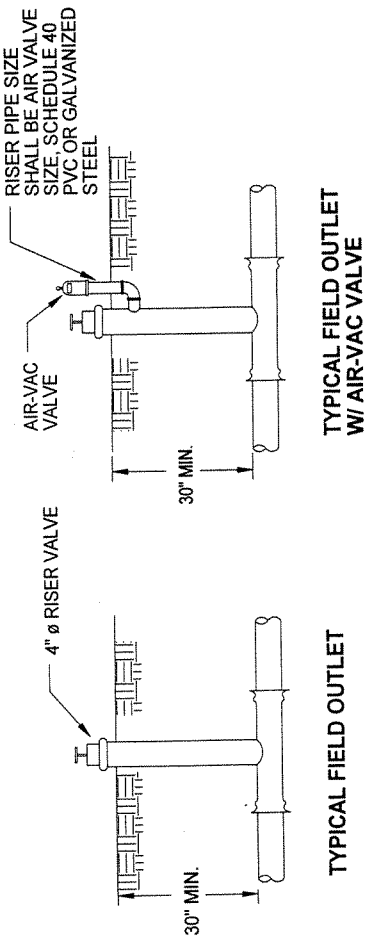


NOTES:
CONSTRUCTION SHALL BE IN ACCORDANCE WITH SPECIFICATION ID-587-D.
ALL CMP SHALL BE 14 GAGE MINIMUM.
MINIMUM NUMBER OF REINFORCING SPOKES EVENLY SPACED:

SCREEN DIA.	# SPOKES
42"	6
48"	6
60"	8
72"	10
84"	12

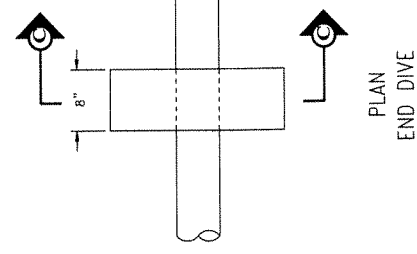
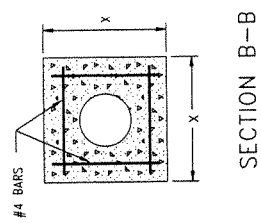
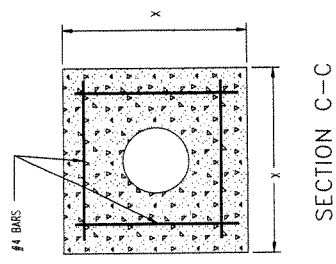
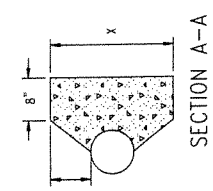
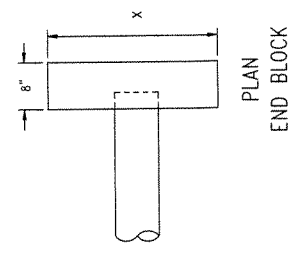
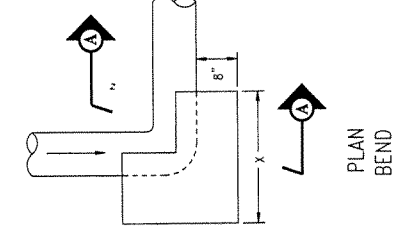
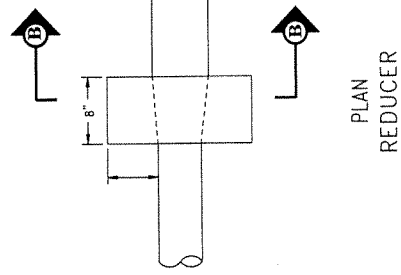
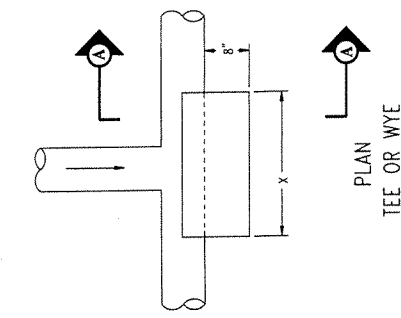
COOPERATOR: BEYELER/AMONSON
TURBULENT FLOW TRASH SCREEN
LEMHI SWCD LEWIS CO. IDA
UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

DESIGNED BY: DFG DATE: 7/02
DRAWN BY: DFG
REVIEWED BY:
APPROVED BY:
FILE NAME: BEYELER JOB CLASS: II
SCALE: NONE SHEET 3 OF 5



COOPERATOR:	BEVELERMANSON
PIPELINE DETAILS	LEMA SWCD LEMA CO. IDAHO
DESIGNED BY:	DFG
DRAWN BY:	DFG
APPROVED BY:	DFG
DATE:	7/02
FILE NAME:	BEVELERMANSON
JOB CLASS:	II
SHEET:	4 OF 5

TYPICAL THRUST BLOCK DETAILS



NOTES:

- THRUST BLOCKS ARE REQUIRED ON ALL UNDER GROUND PIPE AT REDUCERS, TEES, DEAD ENDS, END DIVES, AND BENDS EXCEEDING 30°.
- THE MINIMUM BLOCK SIZE HAS 8" OF CONCRETE EXTENDING OUT FROM THE EDGE OF THE PIPE. NO REINFORCING STEEL IS REQUIRED IN A MINIMUM BLOCK.

LOCATION	BLOCK TYPE	X-DIMENSION
58+10	Tec	28"
75+10	90° Bend	22"
83+10	45° Bend	22"

NOT TO SCALE

BEVELER/AMONSON

THRUST BLOCKS

LEMMING, LEMMI CO. IDAHO

United States Department of Agriculture

Natural Resources Conservation Service

Designed By: D. Flint Gooby

Drawn By: D. Flint Gooby

Reviewed By: D. Flint Gooby

Approved By: D. Flint Gooby

Date: 10/01

Job class: II

Sheet: 5 of 5