

RECEIVED

OCT 08 2009

Department of Water Resources
Eastern Region

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

Fee 50
Receipt E035395
Received by BMY
Date 10-8-09

APPLICATION FOR AMENDMENT OF A PERMIT

Name of Applicant Caribou Land, LLC Phone 480-368-5205Mailing address 14400 N. 71st Pl., Scottsdale, AZ 85260 Email _____I am the owner and the holder of Permit to Appropriate the Public Waters of the State of Idaho No. 24-10700, and request that the permit and permit map be amended and/or changed as follows:Purpose of Amendment: _____ Change point of diversion ☒ Add point of diversion_____ Change place of use ☒ Change nature of use _____ Change period of use _____ Other1. Point of diversion: _____, Section 8, Township 5S, Range 46E, B.M.,
County of Caribou. Other points of diversion NE SE NW; SE SE NW; NE NE SW

2. Period and nature of use: (irrigation, domestic, stockwatering, industrial, etc.)

Amount 25 AFA for fire protection purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per year) (water use) (Begin Month) (End month)Amount 25 AFA for fish habitat purposes from 01/01 to 12/31 (both dates inclusive)
(cfs or acre-feet per year) (water use) (Begin Month) (End month)Amount .28 for irrigation purposes from 06/15 to 09/01 (both dates inclusive)
(cfs or acre-feet per year) (water use) (Begin Month) (End month)#mts: .27 diversion to storage 06/15 09/013. Place of use or land to be irrigated: not change; NE SE NW; SE SE NW; NE NE SW

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
<u>5S</u>	<u>46E</u>	<u>8</u>								<u>135</u>									
<u>5S</u>	<u>46E</u>	<u>8</u>								<u>14</u>									

Total number of acres to be irrigated 27.5 cfs

4. a. Who owns the property at the point of diversion? applicant
- b. Who owns the land to be irrigated or place of use? applicant
- c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing:

Complete the following map by showing land and point of diversion as proposed by this amendment.
Show $\frac{1}{4}$ $\frac{1}{4}$, section, township, range and ditches. (The smallest subdivision represents 40 acres.)

Please see attached

Scale: 2 inches equal 1 mile

I hereby request approval of this change subject to the fact that no one will be injured by the change, and that the change will be made at my own risk.

Signed this 6th day of October, 2009.

Phyllis Jansen - Attorney
Permit Holder Signature (and title, if for a company or organization)

ACTION OF THE DEPARTMENT OF WATER RESOURCES

Preliminary check by _____ Publication prepared by _____ Date _____

Published in _____ Publication dates _____

I, _____, of the Department of Water Resources hereby

Witness my hand this _____ day of _____, 20____

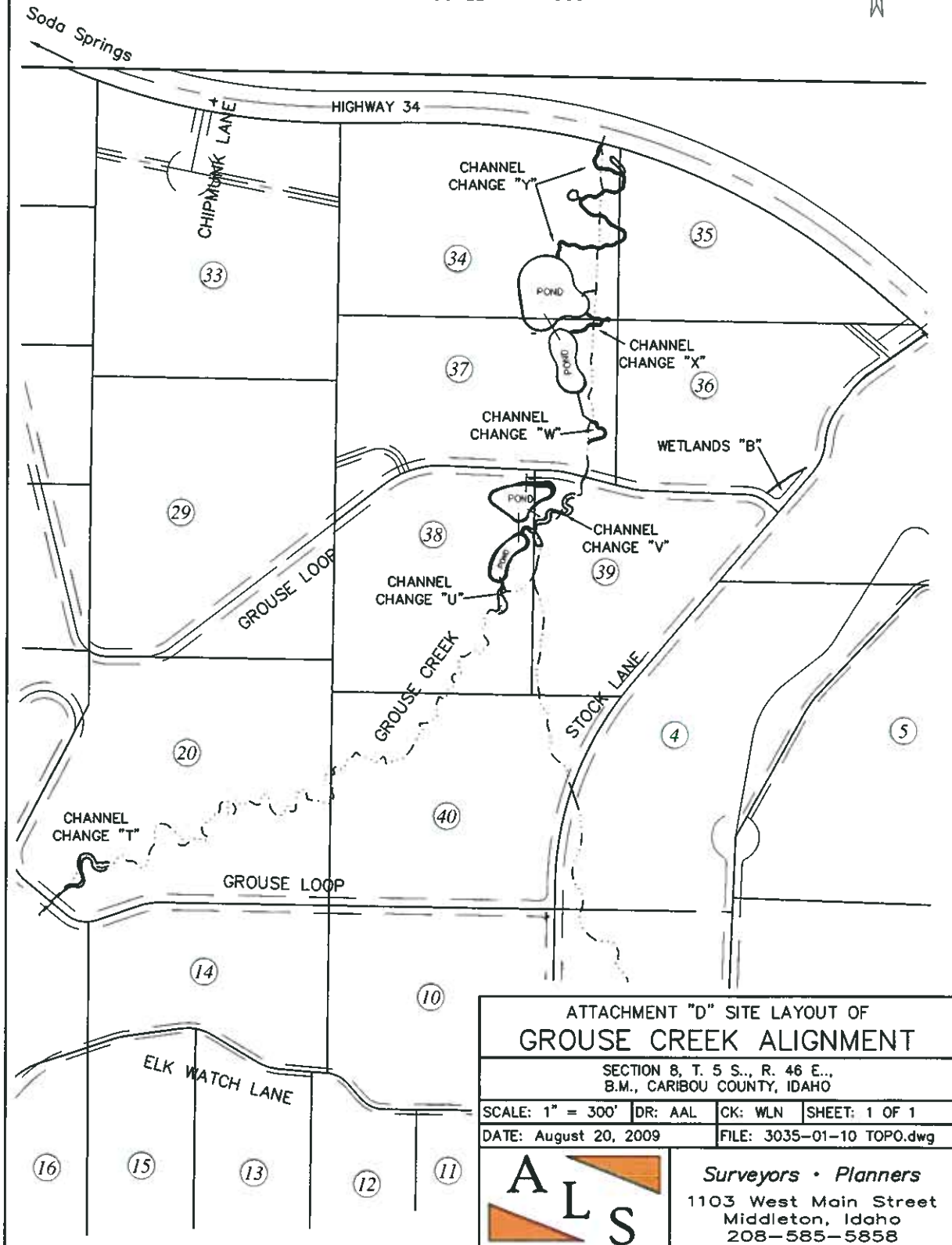
SIGNATURE

ATTACHMENT "D" SITE LAYOUT OF GROUSE CREEK PROPOSED ALIGNMENT

Portions of Grouse Creek Subdivision, lying in
Section 8, Township 5 S., Range 46 E. of the
Boise Meridian, Caribou County, Idaho
2009

300 150 0 300 600

SCALE: 1" = 300'



ATTACHMENT "D" SITE LAYOUT OF GROUSE CREEK ALIGNMENT

SECTION 8, T. 5 S., R. 46 E.,
B.M., CARIBOU COUNTY, IDAHO

SCALE: 1" = 300' DR: AAL CK: WLN SHEET: 1 OF 1
DATE: August 20, 2009 FILE: 3035-01-10 TOPO.dwg



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Permit No. 2
Tin Cup Development, Inc.
Grouse Creek Ranch Subdivision

Additional Descriptions and Data for Stream Alteration Permit Application NPW For 304

6a. The stream improvements will enhance fish and animal habitat, riparian habitat and wetland habitats. Normal functions of these critical habitats will be restored by correcting the extreme down-cutting caused by years of grazing and channel straightening.

7a. Fill material will be placed in the old existing channel in Fall of 2010 to allow for the creek to flow in the new channel alignment. The old channel that is not connected to the new alignment will be filled with soil excavated from the new alignment. The total cubic yards placed in the old existing channel to allow for the use of the new alignment is 40, which will be waterward of the ordinary high water mark.

7c. The new channel alignment will be constructed in upland areas, out of the existing flowing stream and out of wetlands. The new alignment will be seeded and vegetate in the Fall 2009 before the new channel is connected to the old existing channel. No dredging is required waterward of the ordinary high water mark until Fall of 2010. Then 105 cubic yards will be removed to connect the old channel to the new channel.

7e. The materials dredged from the old channel will be disposed in the abandoned sections of the old existing channel or in upland areas that are out of the wetland areas. The dredging will be done by a track backhoe. The hoe will work from upland areas near the channel. No work will be in the wetlands area or in flowing water in the existing channel.

7f. To control turbidity and sedimentation during construction we will use BMPs as outlined in IDEQ's catalog, including silt fencing, geotextile fabric, detention basins, and vegetative buffers.

8b. To restore and enhance normal stream, riparian, and wetland functions to lower Grouse Creek Drainage

15. Other comments and information:

Monitoring of effectiveness of stream restoration measures will be accomplished in the same manner as wetland enhancement monitoring will be conducted (Phase I). Permanent monitoring station (photo points) will be recorded annually with reporting for a minimum of three years. Adaptive management techniques will be used to fine-tune the restoration project.

Much of the new stream channel will be constructed in the dry in the fall of 2009. Seeding and vegetation plantings will be done in the fall of 2009 and spring of 2010. The diversion of Grouse Creek from the old channel to the new channel will occur in the summer of 2010. No stream construction work will be scheduled in the spring to avoid impacts on spawning trout and egg incubation. The filling of the old straight channel will be done in the dry and will be seeded and re-vegetated as soon as filling in is completed.

Stream and wetland restoration techniques will be similar to those recommended by Dr. Dave Rosgen.

Attachments

A	(Table)	Wetland Mitigation Supplement
B	(Figure)	Typical Cross Section of Proposed Wetland B
C	(Table)	Stream Restoration Summary
D	(Figure)	Overview of Grouse Creek Proposed Alignment
E	(Figure)	Plan View of Sector T – Channel Restoration
F	(Figure)	Plan View of Sector U – Channel Restoration
G	(Figure)	Plan View of Sector V – Channel Restoration
H	(Figure)	Plan View of Sector W – Channel Restoration
I	(Figure)	Plan View of Sector X – Channel Restoration
J	(Figure)	Plan View of Sector Y – Channel Restoration
K	(Table)	Grouse Creek Channel Restoration Feature Summary
L	(Figure)	Typical Channel Cross Section of Existing and Restored Channels
M	(Figure)	Example Transect X – 3
N	(Figure)	Example Transect X – 4
O	(Figure)	Example Transect Y - 17

GROUSE CREEK RANCH
SUPPLEMENT – 8/10/09
WETLAND MITIGATION PLAN
TABLE A
PHASE I

<u>Sites</u>	<u>Control</u>	<u>Shaping</u>	<u>Plants/Density*</u>	<u>New/Existing</u>	<u>Hydrology Source</u>
A	12" Riser/Culvert	None	Cattail - 2 Willow - 1 Sedge - 1	New	Irrigation
B	4" Berm	6" Excavate	Willow - 1 Sedge - 1	New	Irrigation
C	Road Fill	6" Excavate	Sedge - 1 Cattail - 1	New	Surface
D	Road Fill	None	Sedge - 1 Willow - 1 Bullrush - 2	New	Surface
E	Road Fill	None	Sedge - 1 Willow - 1	New	Surface
F	Pond Berm	None	Sedge - 1 Willow - 1	New	Stream
G	Pond Berm	None	Sedge - 1 Willow - 1	New	Stream
H	Depressions, Slough	1' Berm 1' Excavate	Willow - 2 Dogwood - 1 Sedge - 1	New	Stream
I	Weirs	6" Excavate	Equicetum Dogwood - 1 Willow - 1	New	Stream
J	Weirs	6" Excavate	Equicetum - 1 Dogwood - 1 Willow - 1	New	Irrigation
K	Depressions, Slough	1' Berm 1' Excavate	Willow - 1 Dogwood - 1 Sedge - 1	New	Stream
D	12" Riser/Culvert	None	Sedge - 1 Cattail - 2	New	Surface

*All sites will be hydroseeded with native grasses. Planting density units are expressed in number of square feet planted in each square yard of surface area.

Attachment C

GROUSE CREEK RANCH

SUPPLEMENT – 8/10/09

STREAM CHANNEL RELOCATION/RESTORATION PLAN

PHASE II

<u>Sites</u>	<u>Transects</u>	<u>Length</u>	<u>Vertical Drop</u>	<u>Slope</u>	<u>Key Vegetation</u>
T	3	150'	6.0'	4%	Willow Bog Birch
U	2	100'	1.0'	1%	Willow Dogwood
V	7	210'	8.0'	3.8%	Willow Bog Birch
W	6	160'	1.0'	0.6%	Willow Sedge
X	5	170'	1.0'	0.6%	Willow Sedge
Y	1-24	930'	6.0'	0.6%	Willow Sedge

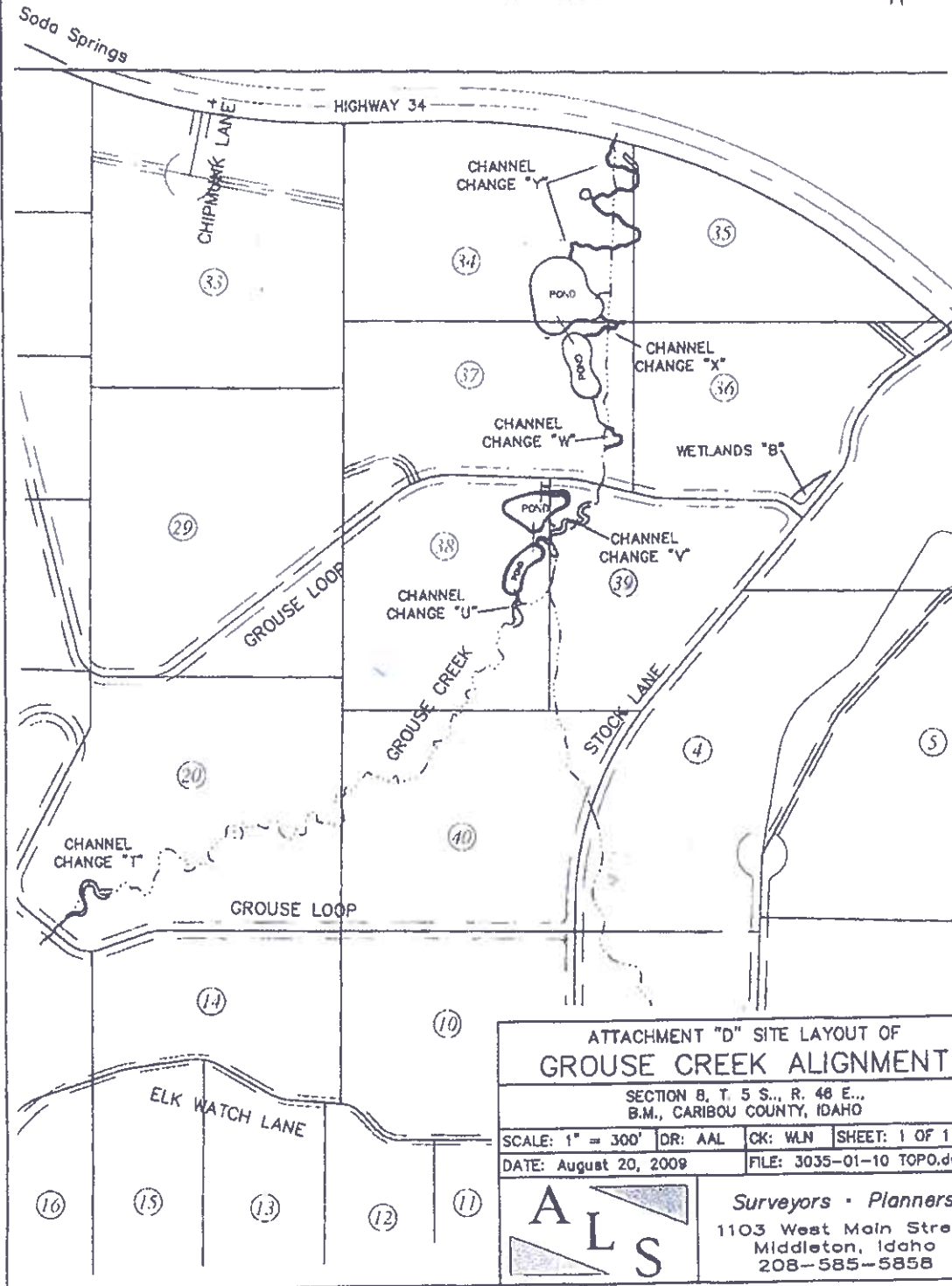
ATTACHMENT "D" SITE LAYOUT OF GROUSE CREEK PROPOSED ALIGNMENT

Portions of Grouse Creek Subdivision, lying in
Section 8, Township 5 S., Range 48 E. of the
Boise Meridian, Caribou County, Idaho
2009



300 150 0 300 600

SCALE: 1" = 300'



ATTACHMENT "D" SITE LAYOUT OF GROUSE CREEK ALIGNMENT

SECTION 8, T. 5 S., R. 48 E.,
B.M., CARIBOU COUNTY, IDAHO

SCALE: 1" = 300' OR: AAL CK: WLN SHEET: 1 OF 1
DATE: August 20, 2009 FILE: 3035-01-10 TOPO.dwg

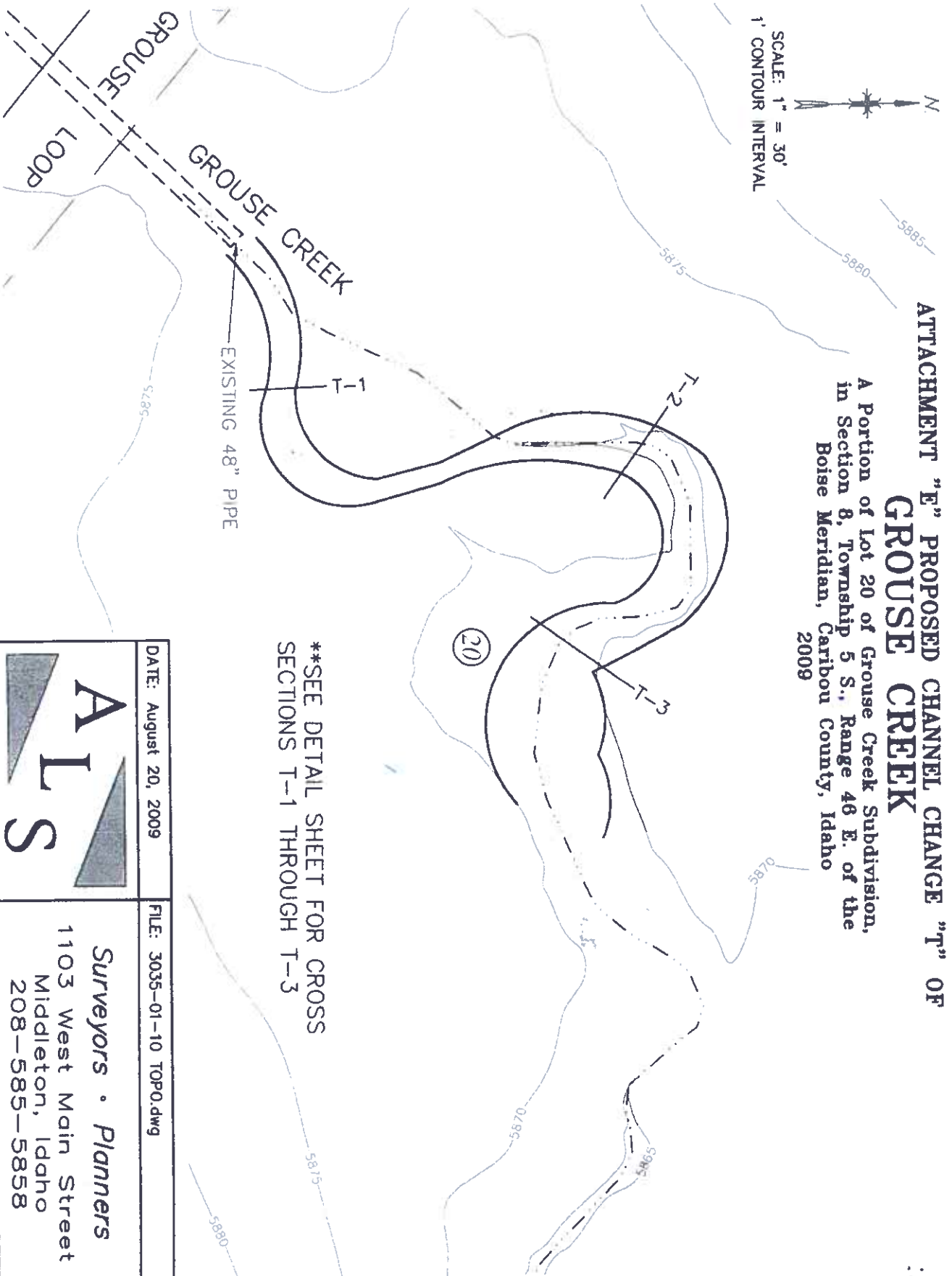
ALS

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ATTACHMENT "E" PROPOSED CHANNEL CHANGE "T" OF GROUSE CREEK

A Portion of Lot 20 of Grouse Creek Subdivision,
in Section 8, Township 5 S., Range 46 E. of the
Boise Meridian, Caribou County, Idaho
2009

SCALE: 1" = 30'
1' CONTOUR INTERVAL



**SEE DETAIL SHEET FOR CROSS
SECTIONS T-1 THROUGH T-3

DATE: August 20, 2009

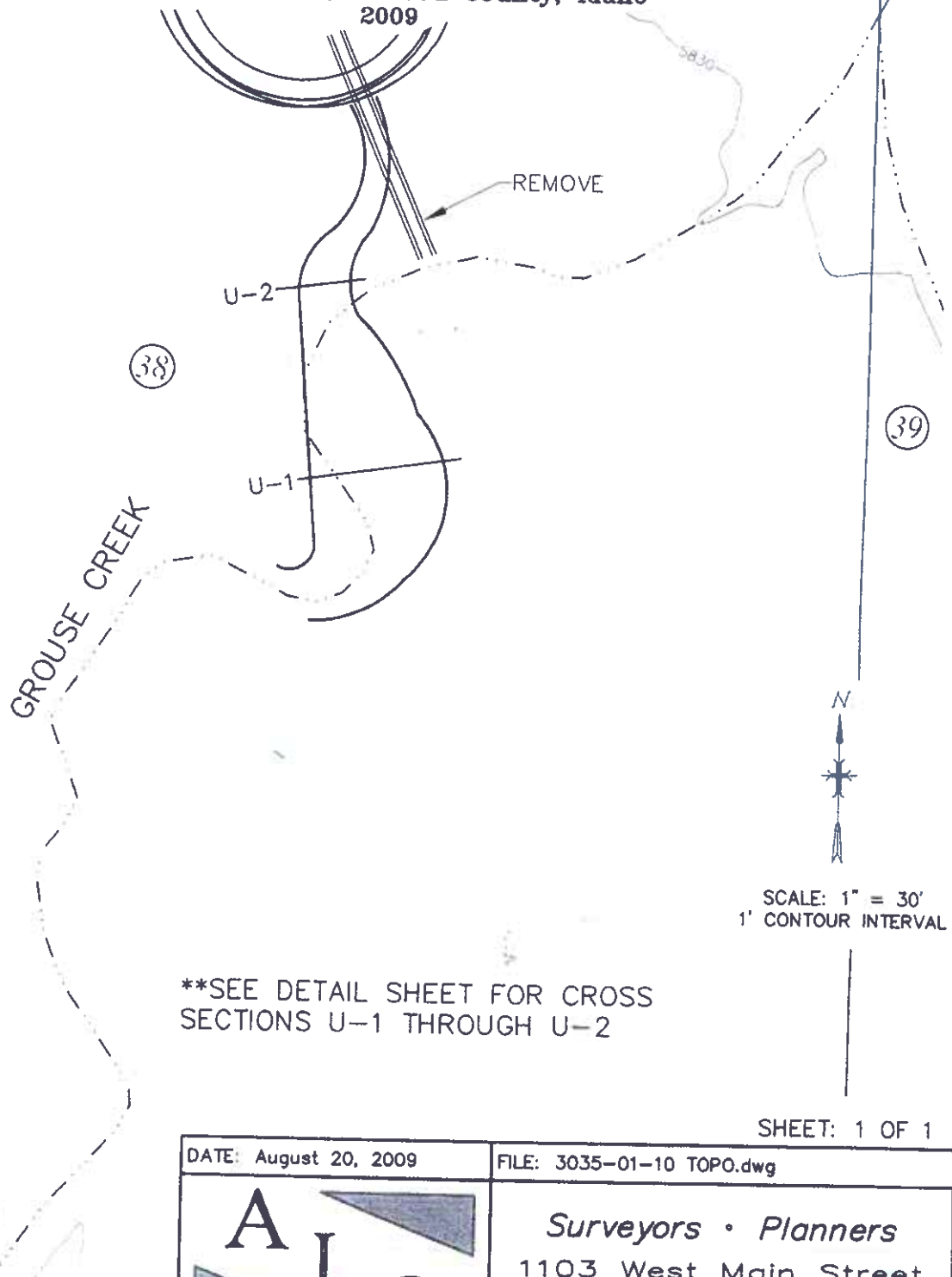
FILE: 3035-01-10 TOP0.dwg



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ATTACHMENT "F" PROPOSED CHANNEL CHANGE "U" OF GROUSE CREEK

A Portion of Lot 38 of Grouse Creek Subdivision,
in Section 8, Township 5 S., Range 46 E. of the
Boise Meridian, Caribou County, Idaho
2009



**SEE DETAIL SHEET FOR CROSS
SECTIONS U-1 THROUGH U-2

SHEET: 1 OF 1

DATE: August 20, 2009

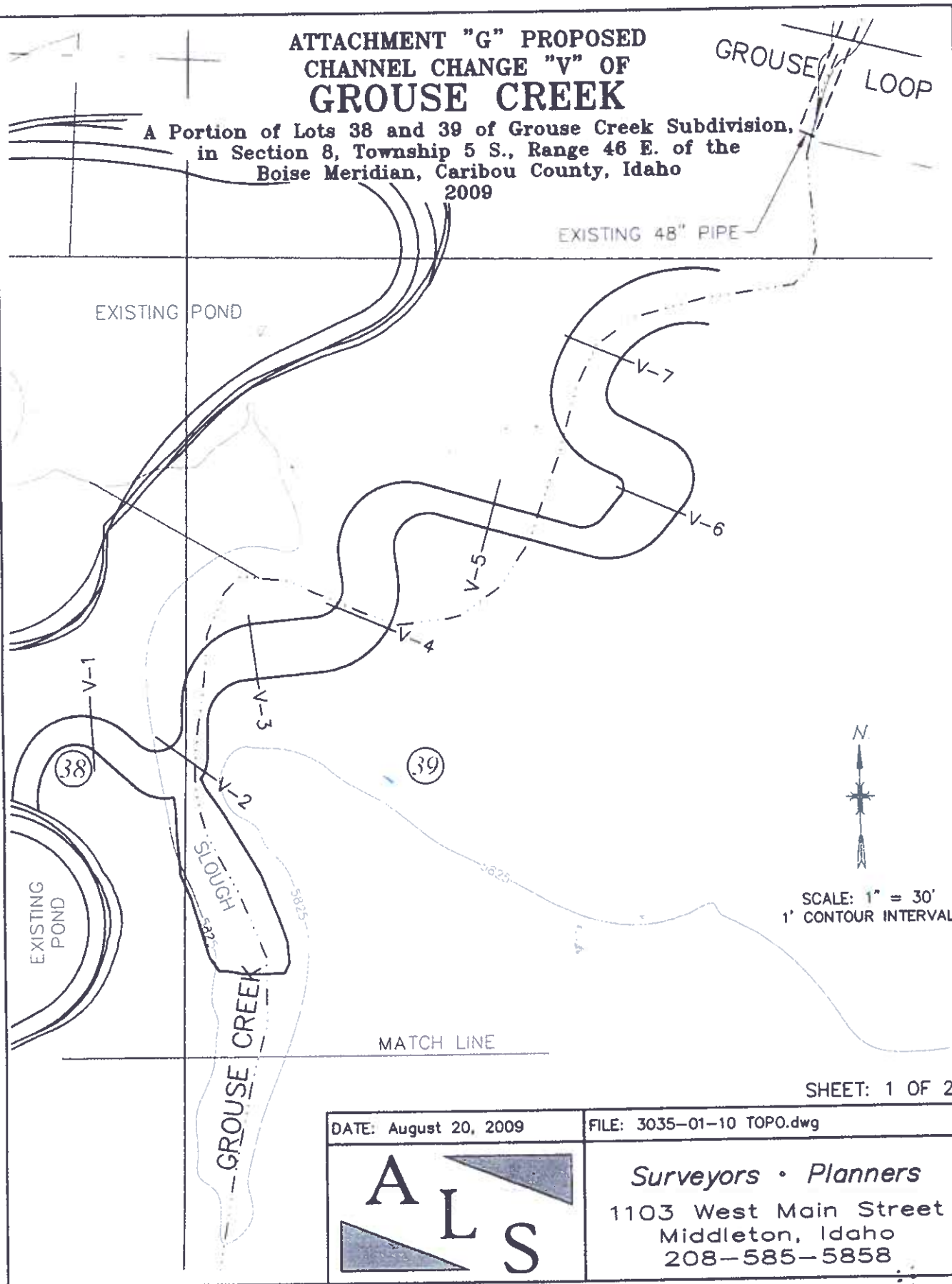
FILE: 3035-01-10 TOPO.dwg



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ATTACHMENT "G" PROPOSED CHANNEL CHANGE "V" OF GROUSE CREEK

A Portion of Lots 38 and 39 of Grouse Creek Subdivision,
in Section 8, Township 5 S., Range 46 E. of the
Boise Meridian, Caribou County, Idaho
2009



SHEET: 1 OF 2

DATE: August 20, 2009

FILE: 3035-01-10 TOPO.dwg



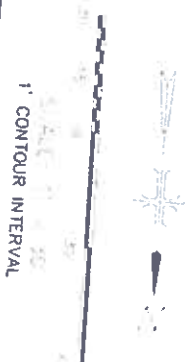
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ATTACHMENT "H" PROPOSED CHANNEL CHANGE "W" OF
GROUSE CREEK
 A Portion of Lot 37 of Grouse Creek Subdivision, lying in the
 SE1/4 SW1/4 of Section 8, Township 5 S., Range 46 E. of the
 Boise Meridian, Caribou County, Idaho
 2009

37
 GROUSE CREEK
 W-1
 W-2
 W-3
 W-4
 W-6

BLOCK 2

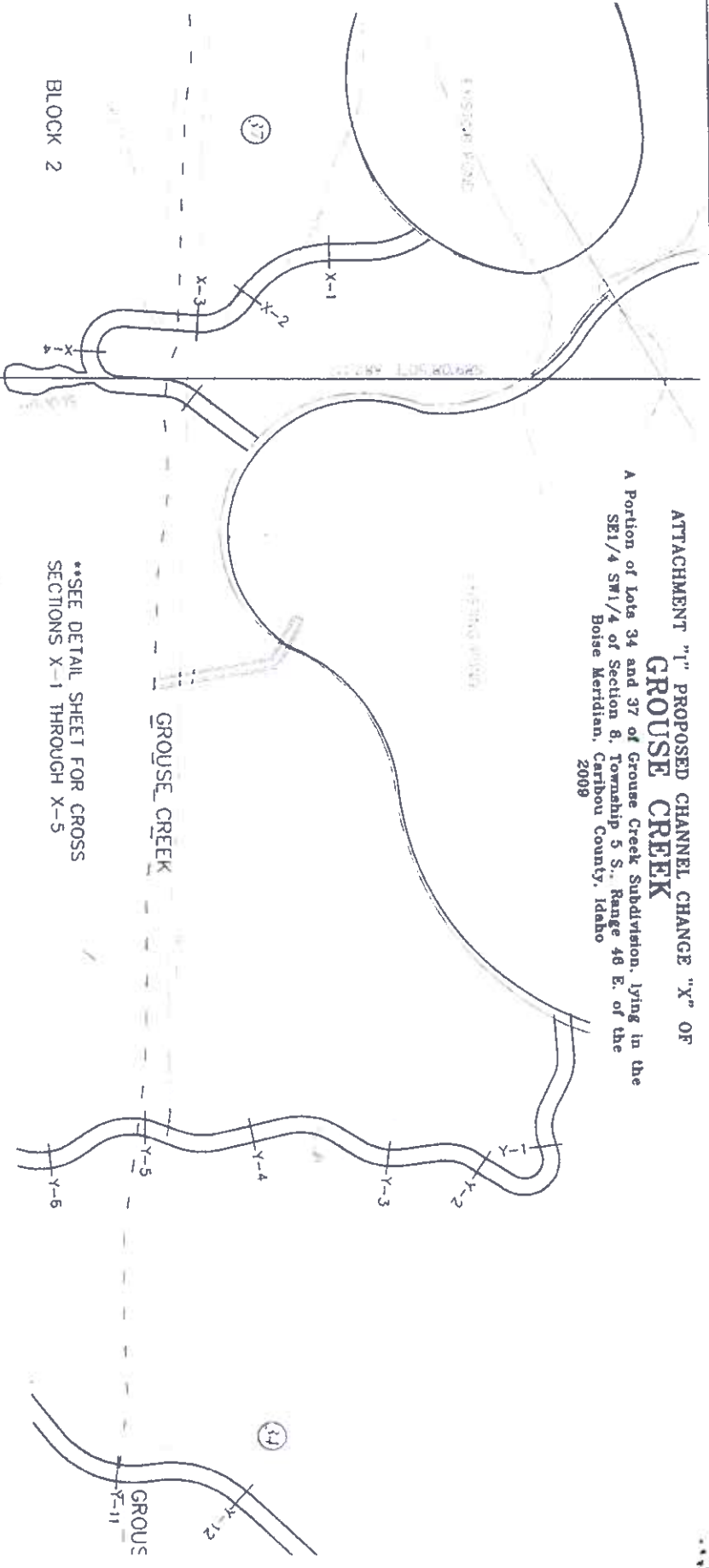
**SEE DETAIL SHEET FOR CROSS
 SECTIONS W-1 THROUGH W-6



ATTACHMENT "H" CHANNEL CHANGE "W" OF GROUSE CREEK			
SECTION 8, T. 5 S., R. 46 E., B.M., CARIBOU COUNTY, IDAHO			
SCALE: 1" = 30'	DR: AAL	CK: WLN	SHEET: 2 OF 2
DATE: August 20, 2009	FILE: 3035-01-10 TOPO.dwg		
 <i>Surveyors • Planners</i> 1103 West Main Street Middleton, Idaho 208-585-5858			

ATTACHMENT "I" PROPOSED CHANNEL CHANGE "X" OF GROUSE CREEK

A Portion of Lots 34 and 37 of Grouse Creek Subdivision, lying in the SE1/4 SW1/4 of Section 8, Township 5 S., Range 48 E. of the Boise Meridian, Caribou County, Idaho
2009



**SEE DETAIL SHEET FOR CROSS SECTIONS X-1 THROUGH X-5

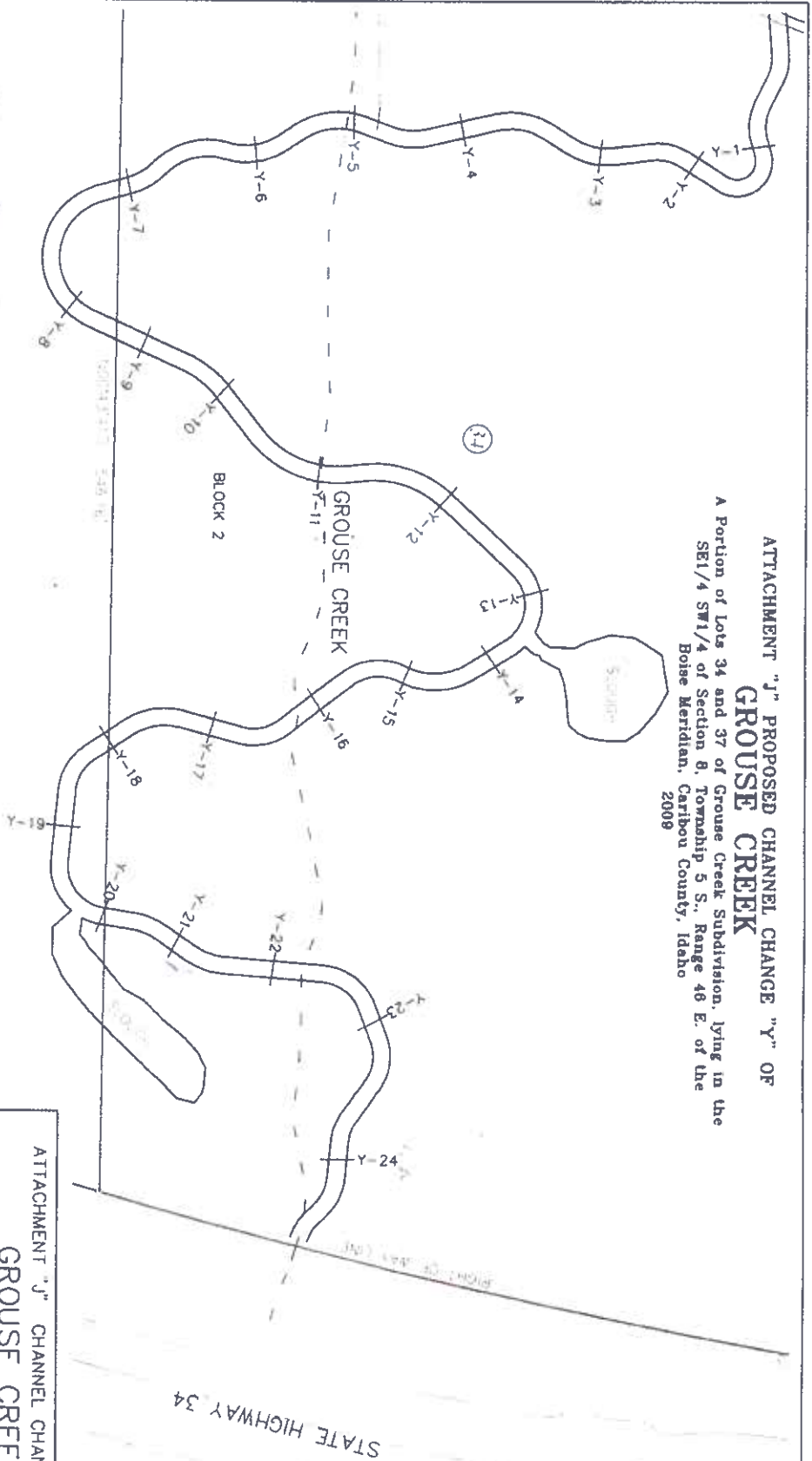
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SECTION 8, T. 5 S., R. 48 E., B.M., CARIBOU COUNTY, IDAHO			
SCALE: 1" = 30'	DR: AAL	CK: WLN	SHEET: 2 OF 2
DATE: August 20, 2009	FILE: 3035-01-10	TOPO.dwg	
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1' CONTOUR INTERVAL

ATTACHMENT "J" PROPOSED CHANNEL CHANGE "Y" OF GROUSE CREEK

A Portion of Lots 34 and 37 of Grouse Creek Subdivision, lying in the
SE1/4 SW1/4 of Section 8, Township 5 S., Range 46 E. of the
Boise Meridian, Caribou County, Idaho
2009



**SEE DETAIL SHEET FOR CROSS
SECTIONS Y-1 THROUGH Y-24

ATTACHMENT "J" CHANNEL CHANGE "Y" OF
GROUSE CREEK

SECTION 8, T. 5 S., R. 46 E.,
B.M., CARIBOU COUNTY, IDAHO

SCALE: 1" = 30' DR: AAL CK: WLN SHEET: 1 OF 2
DATE: August 20, 2009 FILE: 3035-01-10 TPO.dwg

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Attachment K

Grouse Creek Channel Restoration

<u>Sector/Transect</u>	<u>Features</u>
T-1	J-Hook, Rock Weir, Rock Barb, Log Revetment
T-2	Vee Weir, Point Bar
T-3	Log and Rock Revetment
U-1	Rock Barb, J-Hook, Log Revetment
U-2	Point Bar, Brush Revetment
V-1	Rock Barb
V-2	Log Barb, Slough/Wetland, Point Bar
V-3	J-Hook, Rock Barb
V-4	Slough/Wetland, Log Clover, Rock Barb
V-5	Rock Weir
V-6	Point Bar, Log Revetment
V-7	Rock Barb, Cover Logs
W-1	Cover Log, Point Bar
W-2	Vee Weir, Log Revetment
W-3	Cover Log, Point Bar
W-4	Rock Island, Cover Log
W-5	Rock Barb, Rock Weir
W-6	Slough/Wetland
X-1	Cover Logs
X-2	J-Hook
X-3	Log Revetment, Slough/Wetland
X-4	Rock Weir, Log Revetment, Slough/Wetland
X-5	Vee Weir, Cover Log
Y-1	Rock Barbs, J-Hook
Y-2	Vee Weir
Y-3	Cover Logs, Point Bar
Y-4	Rock Weir, Foot Bridge
Y-5	Rock Barb, Slough
Y-6	J-Hook, Cover Log
Y-7	Brush Revetment, Point Bar
Y-8	Log Revetment, Point Bar
Y-9	Cover Logs
Y-10	Log Weir
Y-11	Slough, Rock Barb
Y-12	J-Hook, Foot Bridge
Y-13	Slough, Log Revetment

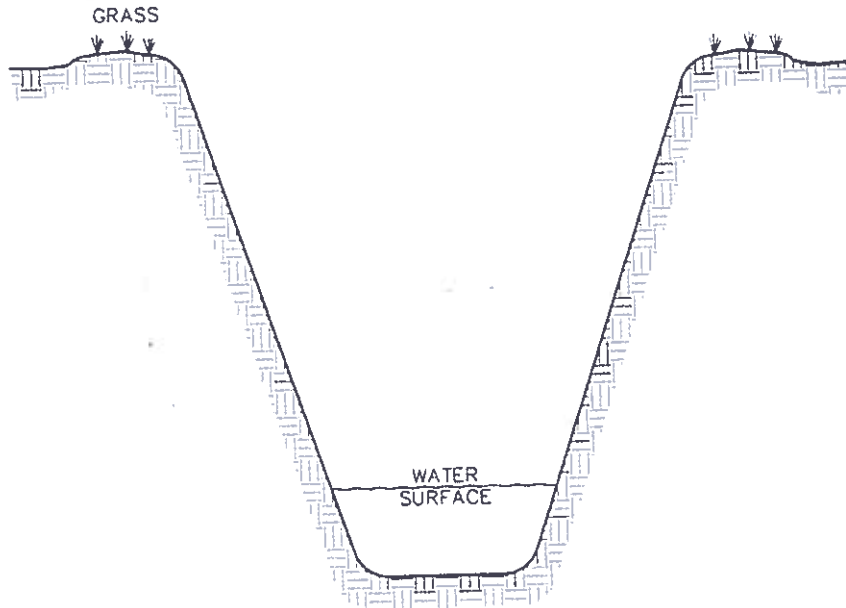
Attachment K

<u>Sector/Transect</u>	<u>Features</u>
Y-14	Anchor Logs
Y-15	Rock Weir
Y-16	Slough, Rock Barbs
Y-17	Cover Logs, Foot Bridge
Y-18	Brush Revetment
Y-19	Anchored Log Cover
Y-20	Slough
Y-21	J-Hook
Y-22	Vee Weir
Y-23	Rock Barbs, Slough
Y-24	Rock Weir

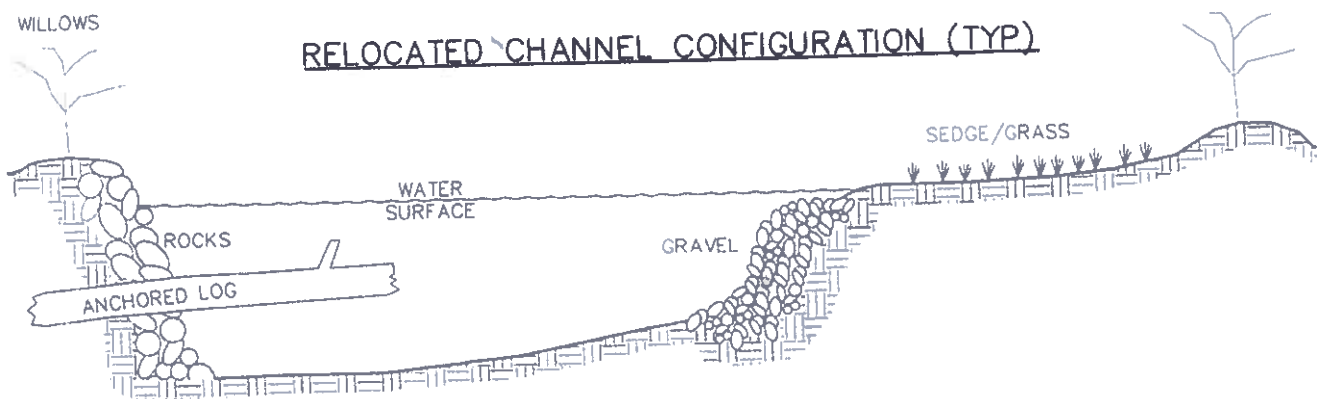
47 Transects – 3 Cross Sections Each = 141 Cross Sections

ATTACHMENT "L" CHANNEL DETAILS OF GROUSE CREEK

EXISTING CHANNEL CONFIGURATION (TYP)



RELOCATED CHANNEL CONFIGURATION (TYP)



SCALE: 1"=2'

DATE: August 20, 2009

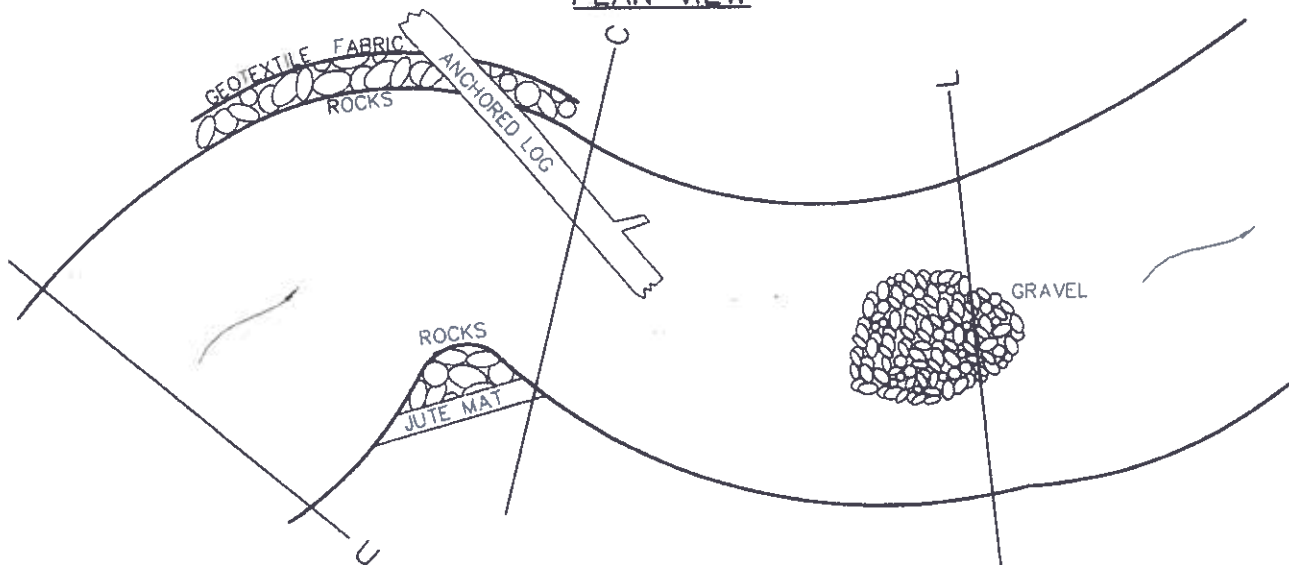
FILE: 3035-01-10 TOPO.dwg



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ATTACHMENT "M" CHANNEL DETAIL OF TRANSECT X-3 GROUSE CREEK

PLAN VIEW



CROSS SECTION U



NOT TO SCALE

PAGE 1 OF 2

DATE: August 20, 2009

FILE: 3035-01-10 TOPO.dwg

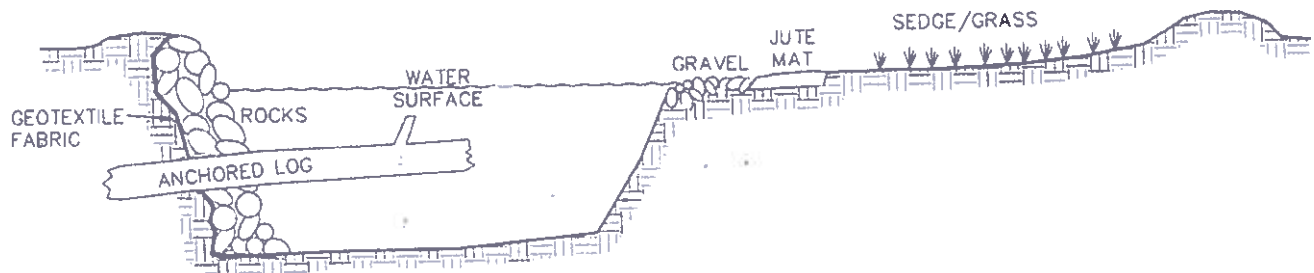


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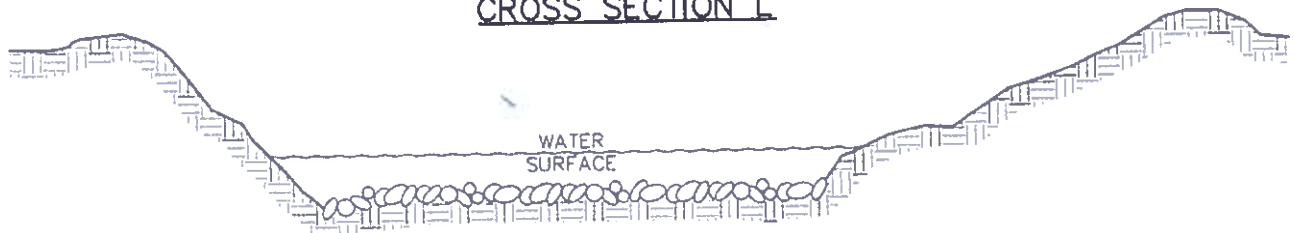
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ATTACHMENT "M" CHANNEL DETAIL OF TRANSECT X-3
GROUSE CREEK

CROSS SECTION C



CROSS SECTION L



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PAGE 2 OF 2

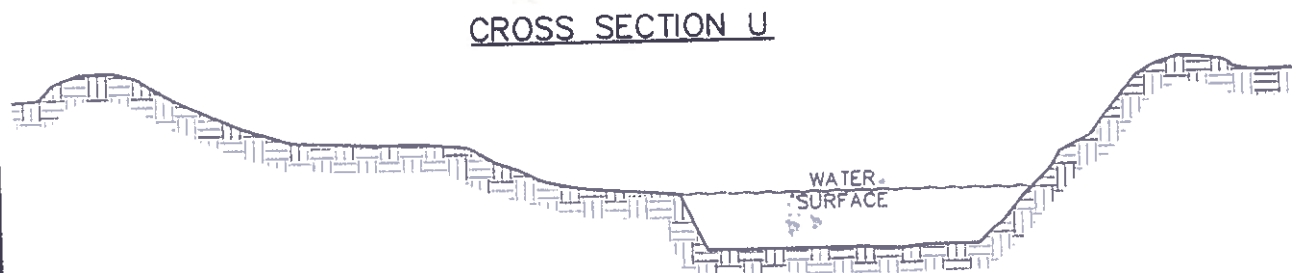
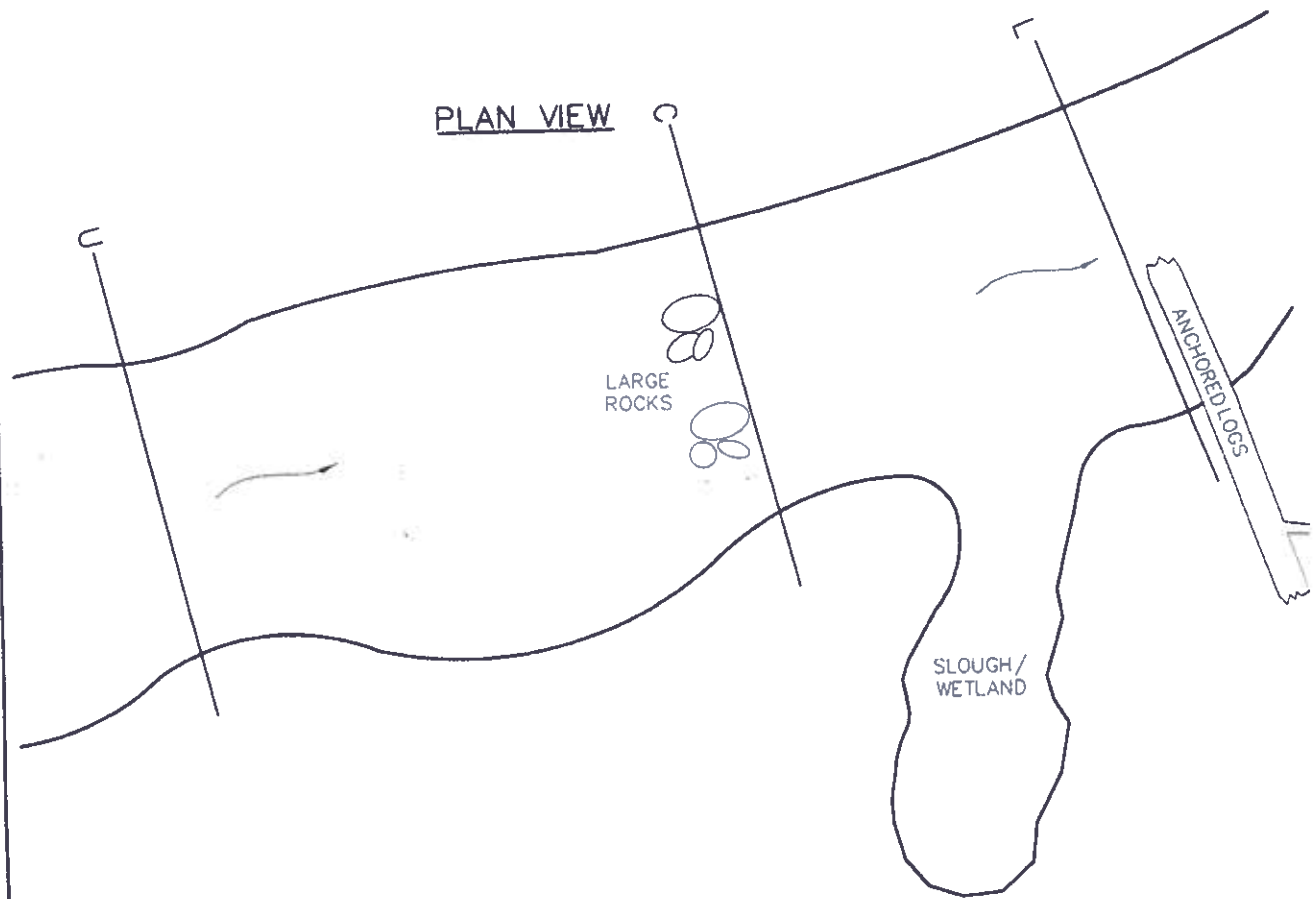
DATE: August 20, 2009

FILE: 3035-01-10 TOPO.dwg



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ATTACHMENT "N" CHANNEL DETAIL OF TRANSECT X-4 GROUSE CREEK



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PAGE 1 OF 2

DATE: August 20, 2009

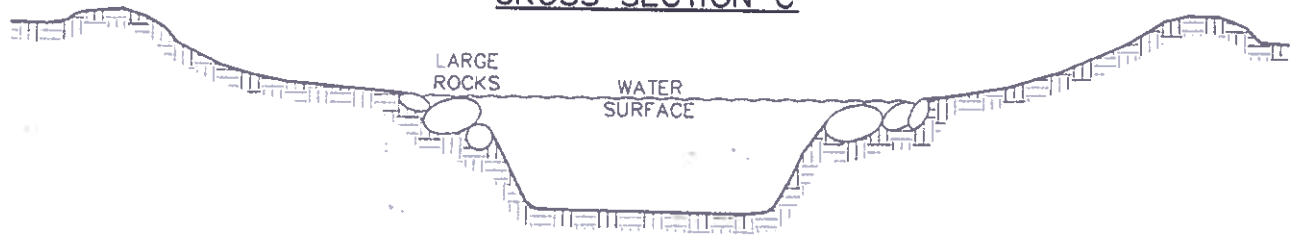
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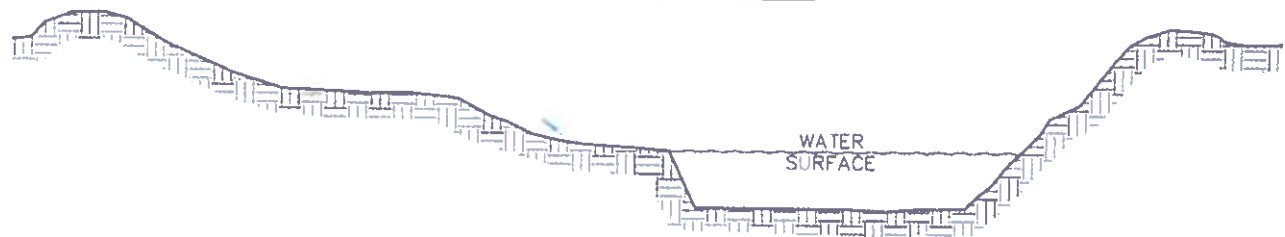
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ATTACHMENT "N" CHANNEL DETAIL OF TRANSECT X-4
GROUSE CREEK

CROSS SECTION C



CROSS SECTION L



NOT TO SCALE

PAGE 2 OF 2

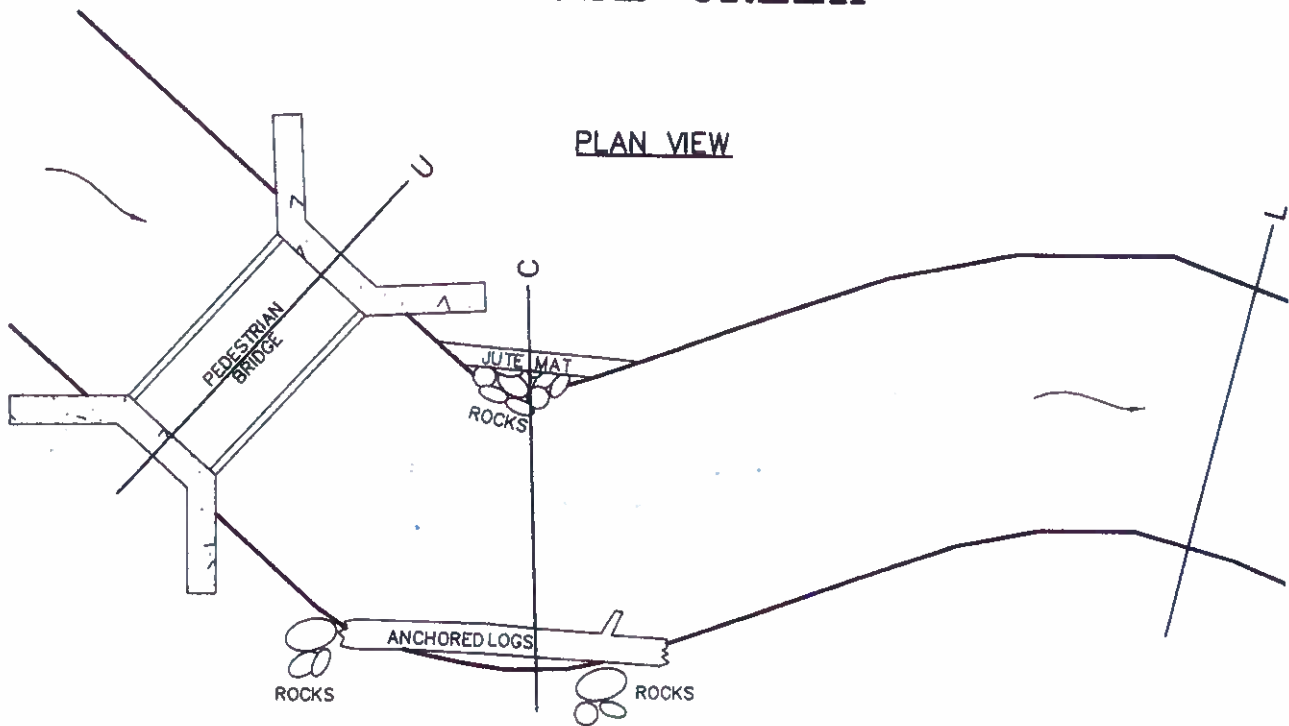
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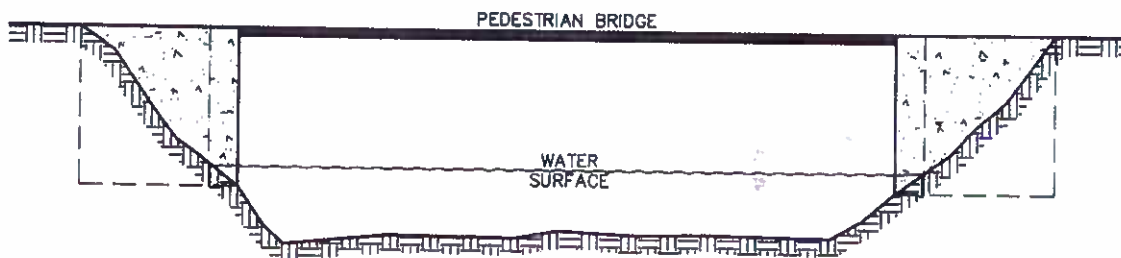


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ATTACHMENT "O" CHANNEL DETAIL OF TRANSECT Y-17
GROUSE CREEK



CROSS SECTION U



PAGE 1 OF 2

DATE: August 20, 2009

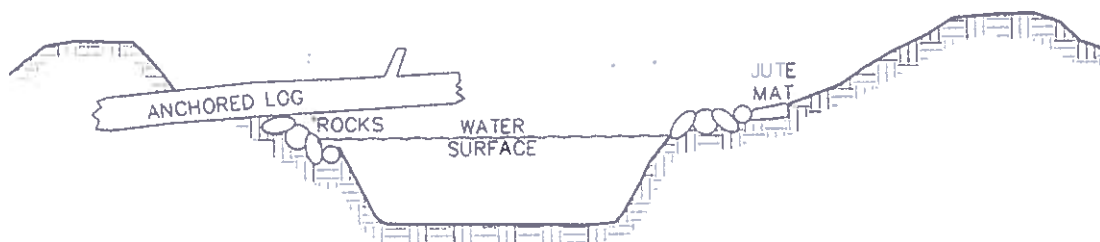
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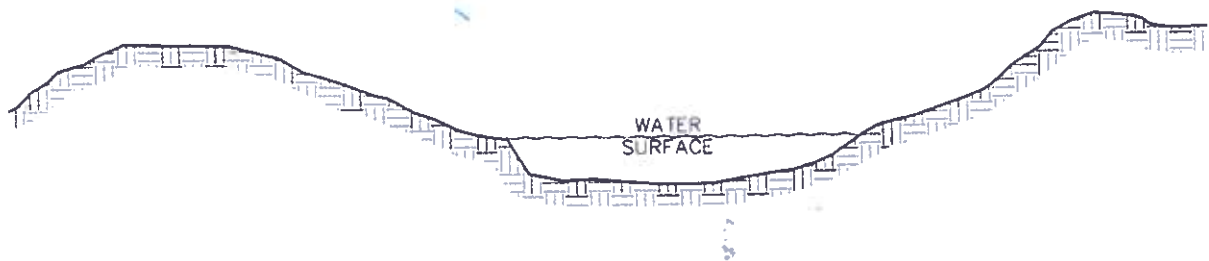
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ATTACHMENT "O" CHANNEL DETAIL OF TRANSECT Y-17
GROUSE CREEK

CROSS SECTION C



CROSS SECTION L



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