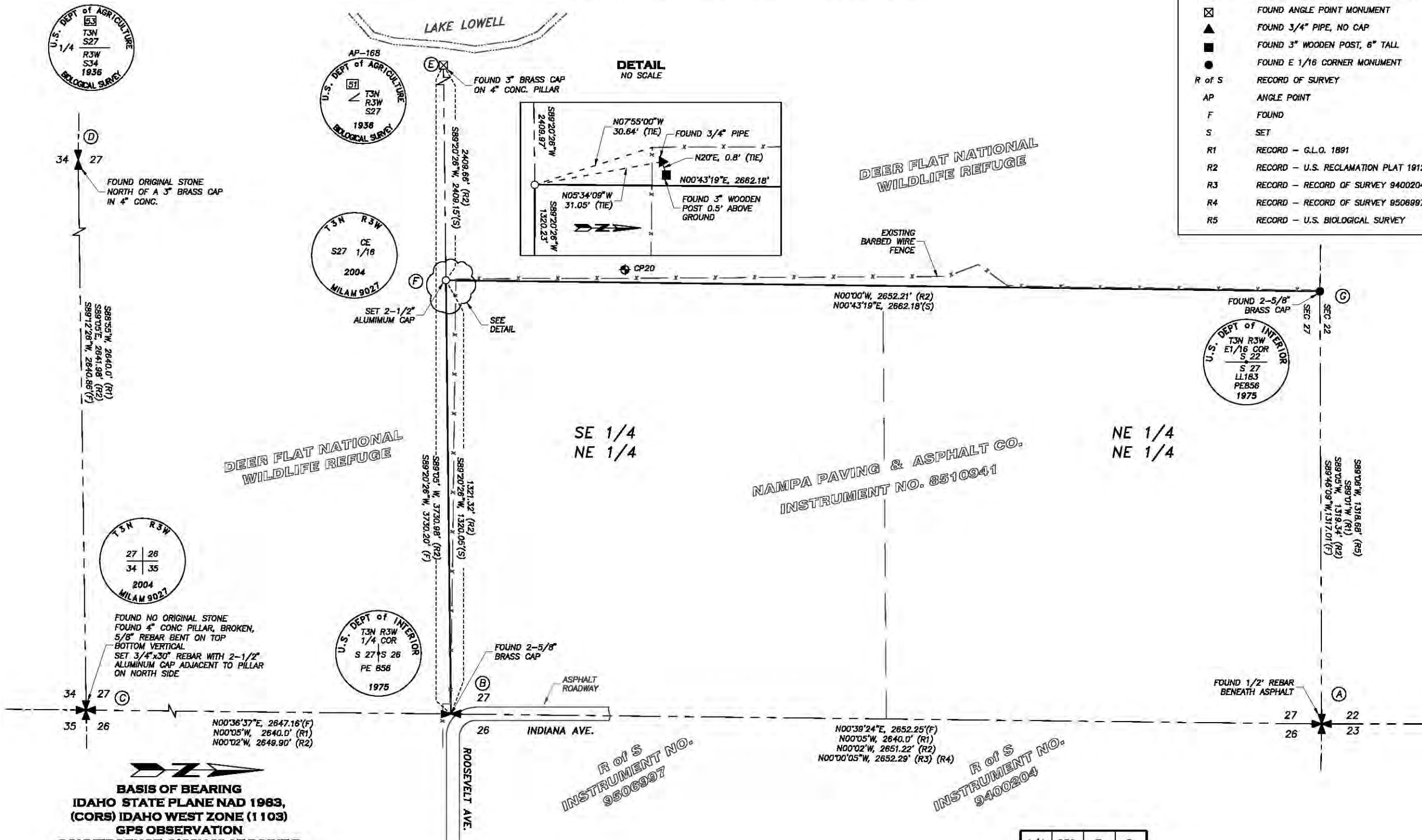


# RECORD OF SURVEY

## E 1/2 OF THE NE 1/4 SECTION 27, T3N, R3W, BM.

### CANYON COUNTY, IDAHO

LEGEND	
○	SET 3/4"x30" REBAR WITH 2-1/2" ALUMINUM CAP MK'D MILAM 9027 AND SECTIONAL INFORMATION
⊕	FOUND SECTION CORNER MONUMENT
⊗	FOUND QUARTER SECTION CORNER MONUMENT
⊠	FOUND ANGLE POINT MONUMENT
▲	FOUND 3/4" PIPE, NO CAP
■	FOUND 3" WOODEN POST, 6" TALL
●	FOUND E 1/16 CORNER MONUMENT
R of S	RECORD OF SURVEY
AP	ANGLE POINT
F	FOUND
S	SET
R1	RECORD - G.L.O. 1891
R2	RECORD - U.S. RECLAMATION PLAT 1912
R3	RECORD - RECORD OF SURVEY 9400204
R4	RECORD - RECORD OF SURVEY 8506997
R5	RECORD - U.S. BIOLOGICAL SURVEY



U.S. DEPT. of AGRICULTURE  
 T3N R3W S27  
 R3W S34 1936  
 BIOLOGICAL SURVEY

AP-168  
 U.S. DEPT. of AGRICULTURE  
 T3N R3W S27  
 1936  
 BIOLOGICAL SURVEY

T3N R3W  
 CE  
 S27 1/16  
 2004  
 MILAM 9027

U.S. DEPT. of INTERIOR  
 T3N R3W E1/16 COR S 27  
 S 27 LL183 PE856 1975

T3N R3W  
 27 28  
 34 35  
 2004  
 MILAM 9027

U.S. DEPT. of INTERIOR  
 T3N R3W 1/4 COR  
 S 27 S 26 PE 858 1975

**BASIS OF BEARING**  
 IDAHO STATE PLANE NAD 1983,  
 (CORS) IDAHO WEST ZONE (1103)  
 GPS OBSERVATION  
 CONVERGENCE -0°38'10" AT POINT B

0 200' 400'  
 SCALE IN FEET  
 DISTANCES ARE SHOWN IN GROUND FEET

**Dj&A, P.C.**  
 CONSULTING ENGINEERS & LAND SURVEYORS  
 2203 Russell Street, Missoula, Montana 59801-8581  
 Phone 409/721-4320 Fax 409/649-8371

PREPARED AT THE REQUEST OF:  
**BUREAU OF RECLAMATION, BOISE IDAHO**

PREPARED FOR:  
**U.S. FISH AND WILDLIFE SERVICE- LAKE LOWELL, IDAHO**

1/4	SEC.	T.	R.
■	27	3 N.	3 W.
□			
□			
SHEET 1 OF 2			
BOISE MERIDIAN			
CANYON COUNTY, IDAHO			

**SURVEY RECORDATION INDEX**  
 334-27-1-1-0-00-00  
 334-27-1-2-0-00-00  
 REFERENCE SURVEY - 9400204  
 INSTRUMENT NO. \_\_\_\_\_

# RECORD OF SURVEY

## E 1/2 OF THE NE 1/4 SECTION 27, T3N,R3W, BM.

### CANYON COUNTY, IDAHO

**SURVEYOR'S NOTES**

- 1) SECTION 27 WAS SURVEYED BY G.L.O. IN 1891, PRIOR TO THE CONSTRUCTION OF LAKE LOWELL RESERVOIR.
- 2) SECTION 27 WAS SURVEYED BY U.S. RECLAMATION SERVICE IN 1912, COMPLETING THE SUBDIVISION AND ESTABLISHMENT OF INTERIOR SIXTEENTH LINES AND THE EASTERLY BOUNDARY OF THE LAKE LOWELL RESERVOIR.
- 3) SECTION 27 WAS SURVEYED BY U.S.B.S. (U.S. DEER FLAT REFUGE) IN 1933 AND 1936, COMPLETING REMONUMENTATION, INTERIOR LINE RETRACEMENT AND THE EASTERLY BOUNDARY OF THE LAKE LOWELL RESERVOIR.
- 4) SECTION 27 WAS SURVEYED BY U.S.F.W. (U.S. DEER FLAT REFUGE) IN 1954, COMPLETING THE RE-ESTABLISHMENT OF THE CE 1/16 AND NE 1/16 CORNERS OF SECTION 27, BY RECORD BEARING AND DISTANCE WITH A TIE TO THE EAST 1/16 CORNER COMMON TO SECTIONS 22 AND 27.
- 5) THE CE 1/16 AND THE NE 1/16 CORNERS ESTABLISHED BY THE 1954 SURVEY WERE NOT IN ACCORDANCE WITH B.L.M. STANDARDS. THE FOUND 1854 CE 1/16 CORNER WAS TIED AND NOT USED FOR THIS SURVEY. (SEE DETAIL)
- 6) THE AGENCY ONCE KNOWN AS U.S. DEPARTMENT OF AGRICULTURE - BIOLOGICAL SURVEY (U.S.B.S.), IS NOW THE U.S. DEPARTMENT OF INTERIOR - FISH & WILDLIFE SERVICE (U.S.F.W.)

**IDAHO STATE PLANE COORDINATES**  
**NAD 1983 (CORS), IDAHO WEST ZONE (1103)**

\* COORDINATES ARE GIVEN IN METERS

POINT NAME	POINT NUMBER	NORTHING*	EASTING*	MONUMENTATION
A	4	212423.288	725452.310	SECTION CORNER (MK'D AS NOTED)
B	1	211615.031	725443.044	1/4 CORNER (MK'D AS NOTED)
C	9	210808.319	725434.452	SECTION CORNER (MK'D AS NOTED)
D	6	210797.184	724629.692	STONE 1/4 CORNER (MK'D AS NOTED)
E	25	211601.945	724306.290	ANGLE POINT (MK'D AS NOTED)
F	40	211610.400	725040.664	CE 1/16 CORNER SET 2-1/2" ALUMINUM CAP
G	23	212421.671	725050.936	E 1/16 CORNER (MK'D AS NOTED)
CP-20	CP-20	211776.507	725030.920	SET 24"x1/2" REBAR WITH 1" RED PLASTIC CAP MK'D DJA

**PURPOSE OF SURVEY**

THIS SURVEY IS RECORDED WITH THE INTENT TO RETRACE AND RE-ESTABLISH EXISTING OWNERSHIP BOUNDARIES PURSUANT TO TITLE 55, CHAPTER 1094. THIS SURVEY DOES NOT SUBDIVIDE LAND.

**SURVEYOR'S REPORT**

THE NAD83 (CORS) IDAHO STATE PLANE (WEST ZONE) COORDINATES LISTED HERE ARE BASED ON GPS OBSERVATION. THE COORDINATES OF THE 1/4 CORNER OF SECTIONS 26 & 27 (POINT "B") WERE COMPUTED BY THE NATIONAL GEODETIC SURVEY'S ON-LINE POSITIONING USER SERVICE AND ALL OTHER COORDINATES ARE BASED ON THIS POSITION.

THE COMBINED SCALE FACTOR AT POINT "B" IS 0.999878

THE CONVERGENCE ANGLE AT POINT "B" IS -0'38"10"

**SURVEYOR'S STATEMENT**

I, RONALD D. MILAM, PLS NO. 9027, STATE OF IDAHO, DO HEREBY STATE THAT THE SURVEY REPRESENTED BY THIS PLAT WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION IN ACCORDANCE WITH THE LAWS OF THE STATE OF IDAHO. FIELD SURVEY CONDUCTED APRIL 14, 2004.

RONALD D. MILAM, PLS 9027 \_\_\_\_\_ DATE \_\_\_\_\_

UNLESS SIGNED, SEALED AND DATED THIS IS A PRELIMINARY PLAT

**PREPARED AT THE REQUEST OF:**  
**BUREAU OF RECLAMATION, BOISE IDAHO**

**PREPARED FOR:**  
**U.S. FISH AND WILDLIFE SERVICE- LAKE LOWELL, IDAHO**

1/4	SEC.	T.	R.
☐	27	3 N.	3 W.
☐			
☐			
SHEET 2 OF 2			
BOISE MERIDAN			
CANYON COUNTY, IDAHO			

SURVEY RECORDATION INDEX

334-27-1-1-0-00-00

334-27-1-2-0-00-00

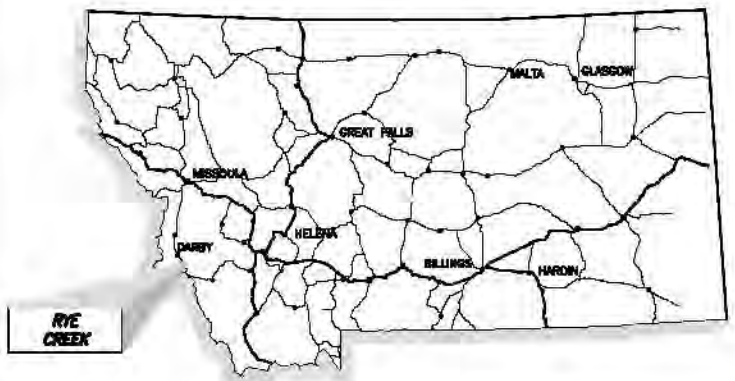
REFERENCE SURVEY - 9400204

INSTRUMENT NO. \_\_\_\_\_

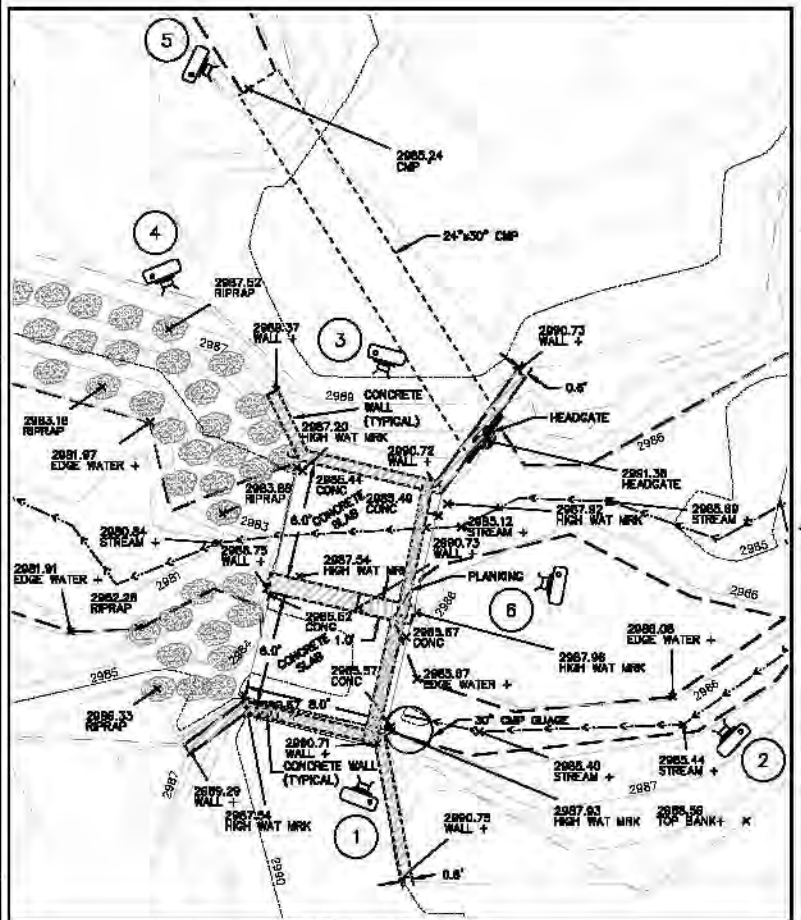


SURVEY CONTROL COORDINATES				
Number	(Local) Northing(Feet)	(Local) Easting(Feet)	(Local) Elevation(Feet)	Description
20	9841.3748	9954.5149	2989.89	SET 2 1/2" USBR AL. CAP
21	10000.0000	10000.0000	3000.00	SET 2 1/2" USBR AL. CAP
22	10126.4758	9915.8597	3008.95	SET 2 1/2" USBR AL. CAP
24	9986.2610	9894.2866	2980.01	SET NAIL
25	10202.8487	9842.3279	2980.88	SET NAIL
26	10018.4624	10117.6183	2983.89	SET NAIL
27	10049.5647	10379.6158	3019.89	SET NAIL
2082	9904.1489	9971.8232	2992.89	FOUND 3 1/4" AL. CAP MARKED "CP 0291"

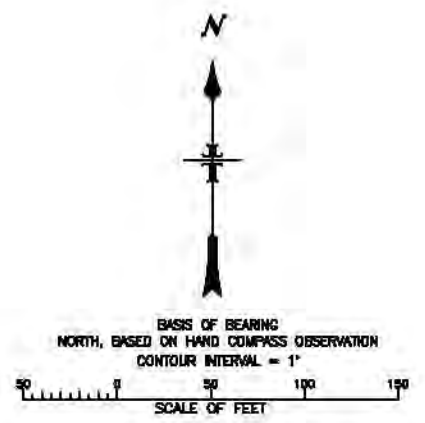
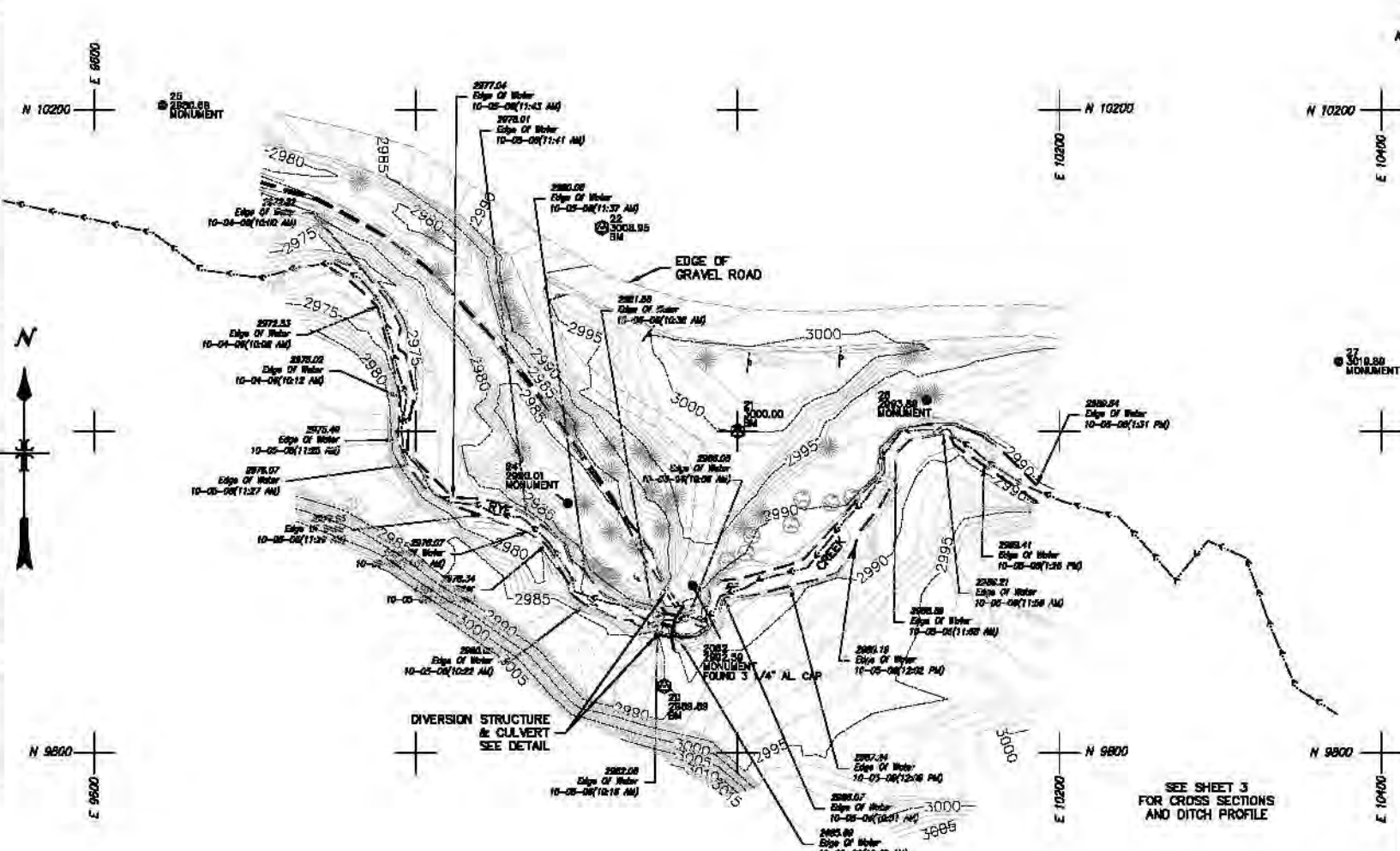
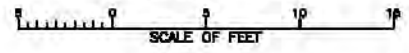
SYMBOLS LEGEND	
+	NORTHING AND EASTING GRID TICKS
○	SECONDARY SURVEY CONTROL (DESCRIBED IN CONTROL TABLE)
⊙	PRIMARY SURVEY CONTROL (DESCRIBED IN CONTROL TABLE)
=====	EXISTING CULVERT PIPE
-----	EXISTING INDEX CONTOUR
-----	EXISTING MINOR CONTOUR
-----	EXISTING TOP OF BANK
-----	EXISTING EDGE OF STRUCTURE
-----	EXISTING EDGE OF GRAVEL ROAD
-----	EXISTING THALWEG OF STREAM
-----	EXISTING EDGE OF DITCH / CHANNEL
-----	EXISTING CONIFER TREE (LARGER THAN 3")
-----	EXISTING SHRUB (LARGER THAN 3")
-----	EXISTING SIGN
-----	EXISTING LARGE BOLDERS (RIP-RAP)
○	AL. CAP
○	BUREAU OF RECLAMATION 2 1/2" ALUMINUM CAP



PROJECT LOCATION MAP



DIVERSION DETAIL



This map has been prepared under the direct supervision of a registered professional land surveyor.  
 signed \_\_\_\_\_ date \_\_\_\_\_  
 GLENN HOWARD  
 Registered Professional Land Surveyor, MT # 63285

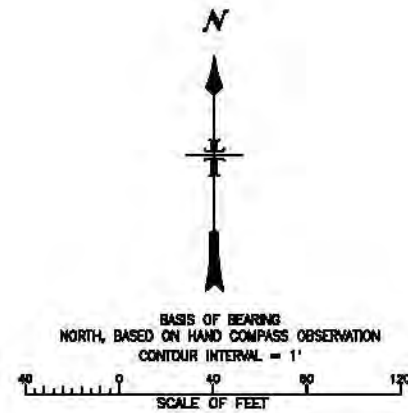
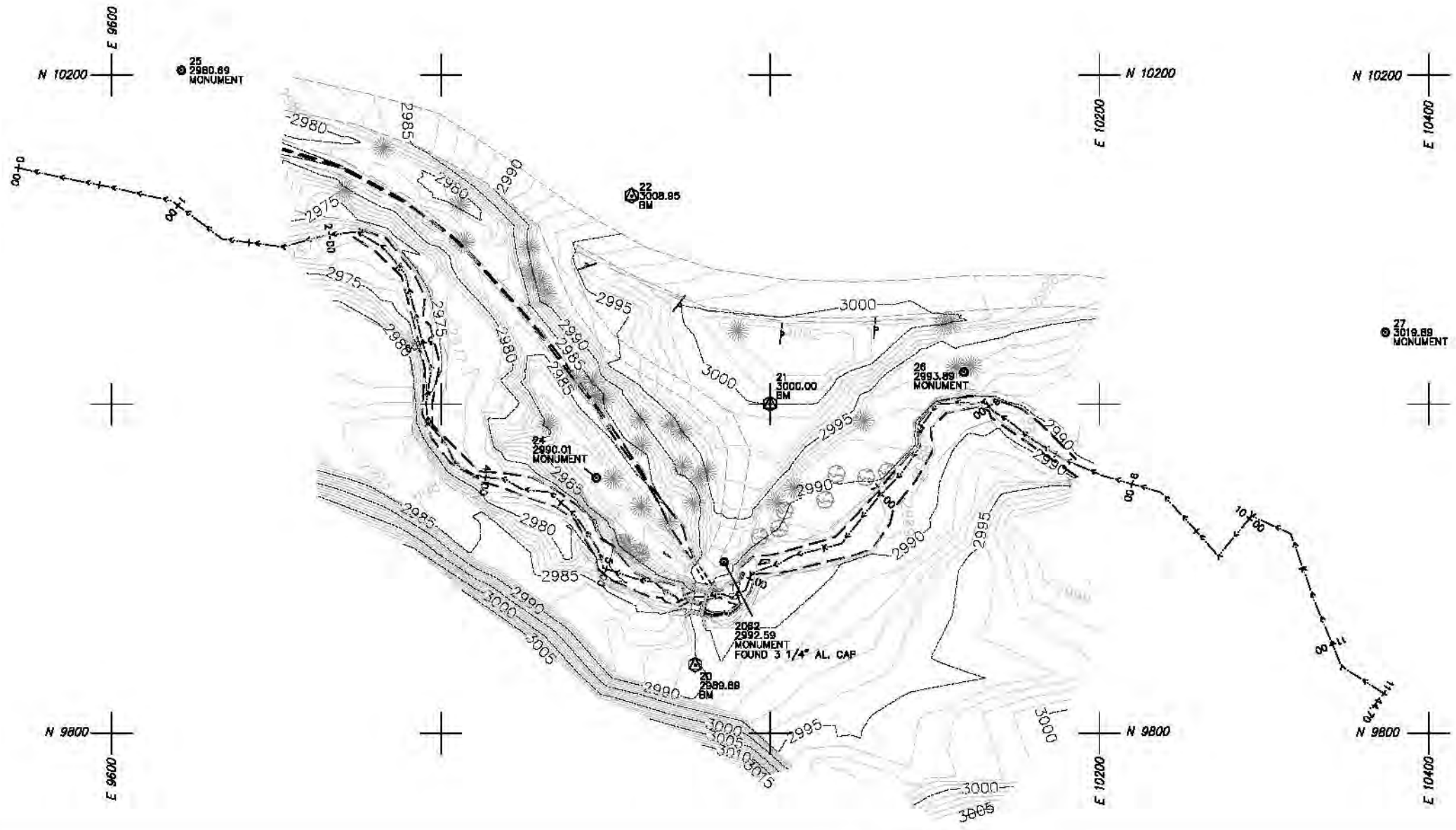
SEE SHEET 3 FOR CROSS SECTIONS AND DITCH PROFILE

PRELIMINARY  
 NOT TO BE USED FOR CONSTRUCTION  
 11/07/06

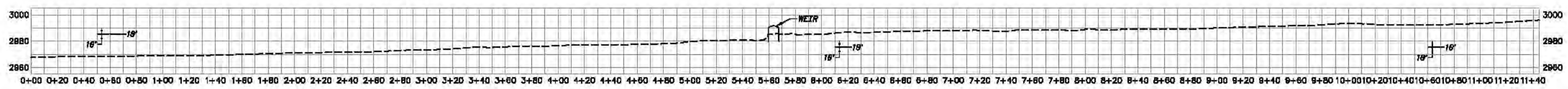
- NOTES:
- Horizontal and Vertical Control is based on an assumed LOCAL GROUND COORDINATE SYSTEM. Bearings are in reference to NORTH, based on hand compass observation.
  - Field surveys were conducted in October, 2006 using a Leica Total Station for ground mapping and Trimble GPS equipment. Topographic and planimetric mapping was generated using Land Development Desktop version 3, in November, 2006.

SURVEYING AND MAPPING  
 DANA, P.C.  
 3203 RUSSELL ST.  
 MISSOULA, MT. 59801  
 (406)-721-4320  
 CONTRACT NO. 02CA10499C  
 TASK ORDER 21

MD/DT/YR 11/2	TITLE
ALWAYS THINK SAFETY	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PACIFIC NORTHWEST REGION BITTERROOT SUBBASIN	
<b>UPPER RYE CREEK DIVERSION STRUCTURE</b>	
SITE MAP	
DESIGNED _____	TECH. APPROVAL _____
DRAWN - <i>John Howard (DANA, P.C.)</i>	DATE PLOTTED _____
CHECKED _____	APPROVED _____
PROJECT NUMBER	DATE PLOTTED
02CA10499C/003	11/22/06
PROJECT NUMBER	DATE PLOTTED
02CA10499C/003	11/22/06
SHEET 1 OF 3	



STREAM PLAN

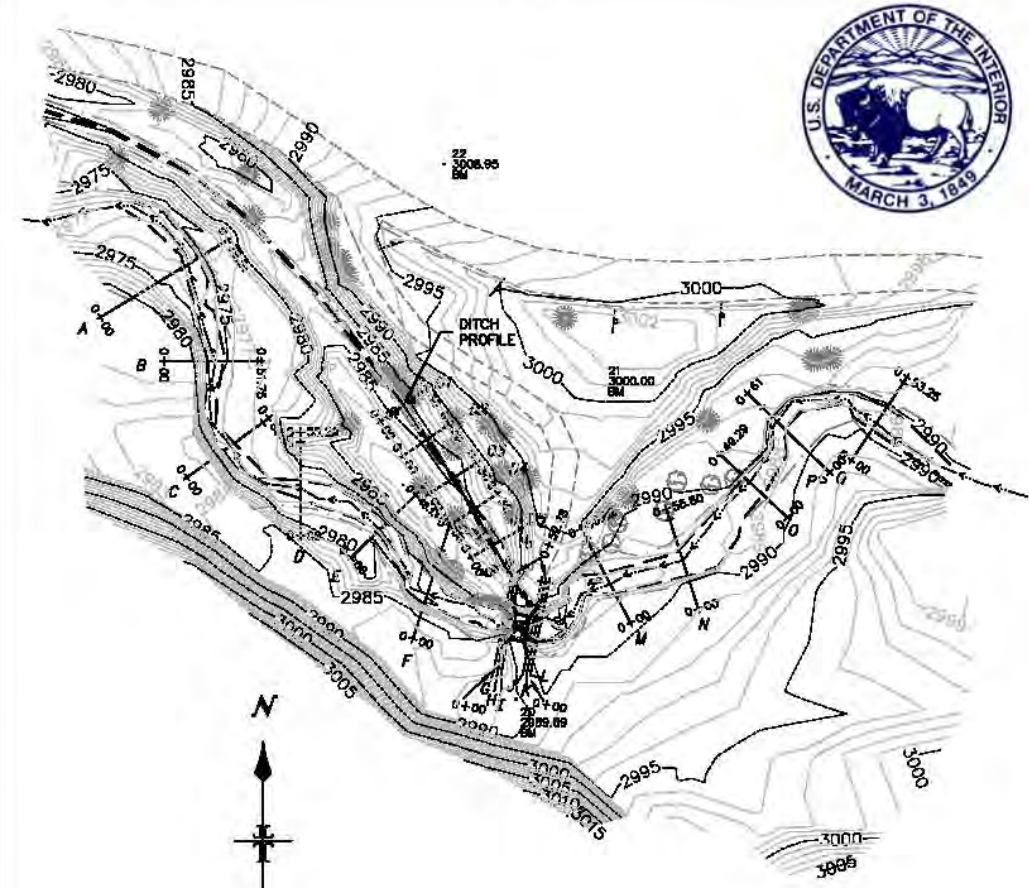


STREAM PROFILE

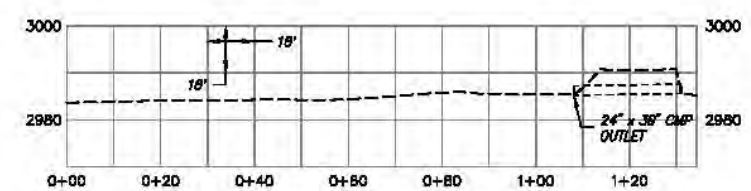
PRELIMINARY  
NOT TO BE USED FOR  
CONSTRUCTION  
11/07/08

SURVEYING AND MAPPING  
DAMA, P.C.  
3303 RUSSELL ST.  
MISSOULA, MT. 59801  
(406)-721-4320  
CONTRACT NO. 02CA10499C  
TASK ORDER 21

MO./DY./YR 11/2	TITLE
ALWAYS THINK SAFETY	
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PACIFIC NORTHWEST REGION BITTERROOT SUBBASIN	
<b>UPPER RYE CREEK DIVERSION STRUCTURE</b> STREAM PLAN AND PROFILE	
DESIGNED _____	TECH. APPROVAL _____
DRAWN - John Hines (DAMA, P.C.)	DATE PLOTTED _____
CHECKED - John Hines (DAMA, P.C.)	APPROVED _____
PROJECT NUMBER	PROGRAM NUMBER
GRID SYSTEM NAD83 8302/AD 3	GRID FILENAME 8190.01-RYE-UPPER/080
DATE PLOTTED 9/23/08	DATE PLOTTED 9/23/08
SCALE: 8"=100'	NOVEMBER, 2008
SHEET 2 OF 3	



CROSS SECTIONS AND DITCH PROFILE LOCATION INDEX MAP



DITCH CENTERLINE PROFILE



6 DIVERSION STRUCTURE



1 DIVERSION STRUCTURE



2 HEADGATE



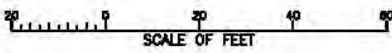
3 DIVERSION STRUCTURE



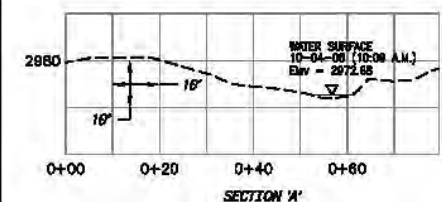
4 DIVERSION STRUCTURE



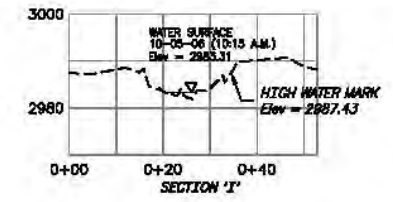
5 CULVERT OUTLET



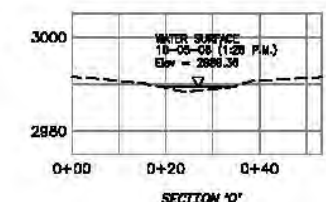
SCALE OF FEET



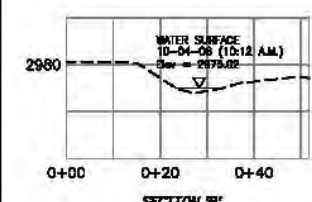
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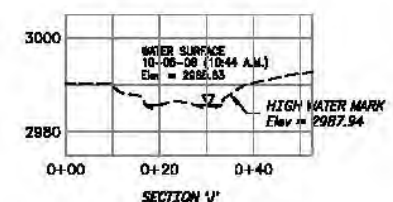
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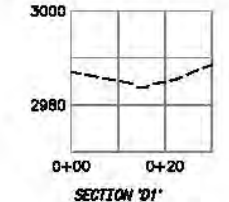
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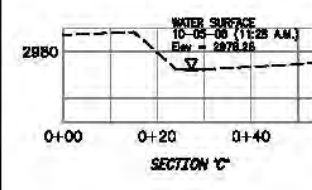
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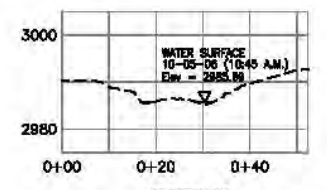
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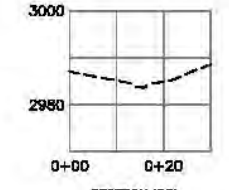
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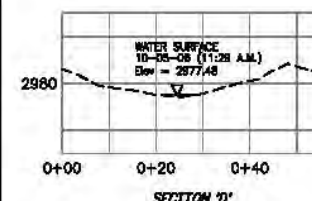
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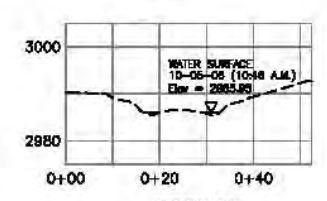
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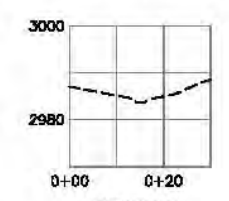
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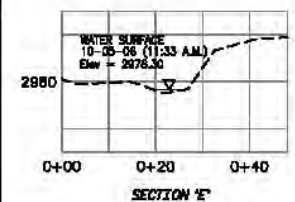
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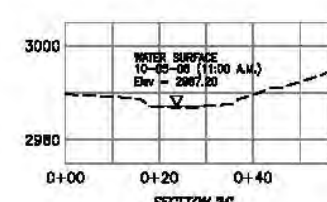
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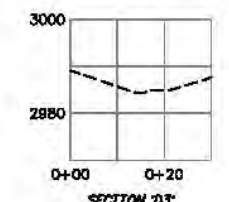
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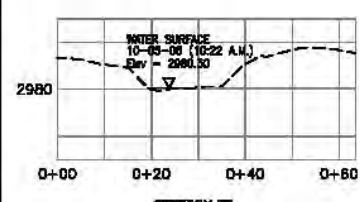
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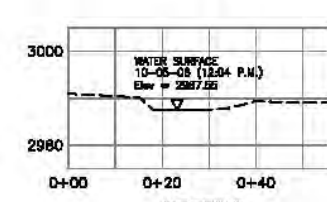
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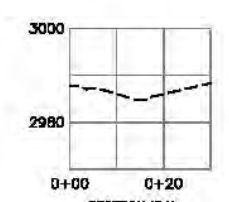
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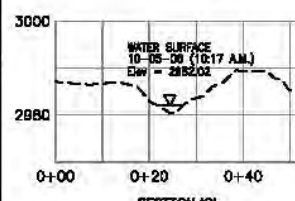
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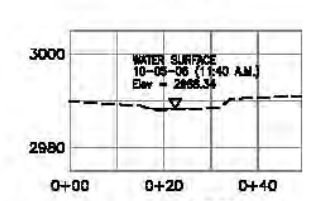
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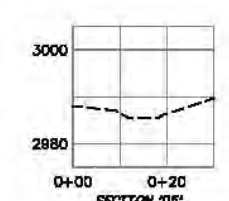
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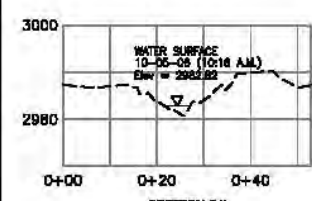
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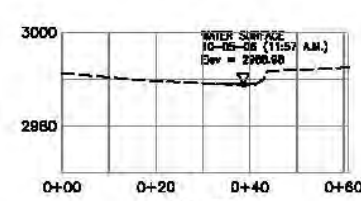
SECTION 'O'



SECTION 'O5'



SECTION 'H'



SECTION 'P'

MD/DT/PR JYZ	TIT	ALWAYS THINK SAFETY
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION PACIFIC NORTHWEST REGION BITTERROOT SUBBASIN <b>UPPER RYE CREEK DIVERSION STRUCTURE</b> DITCH PROFILE AND CROSS SECTIONS		
DESIGNED: <i>[Signature]</i>	TECH. APPROVAL: _____	
CHECKED: <i>[Signature]</i>	APPROVED: _____	
CADD SYSTEM AUTOCAD 2004/12.3	CADD FILENAME 11200.01-RYE-UPPER/000	DATE PLOTTED 9/22/08
TITLE: DWG	SHEET 3 OF 3	NOVEMBER 2008