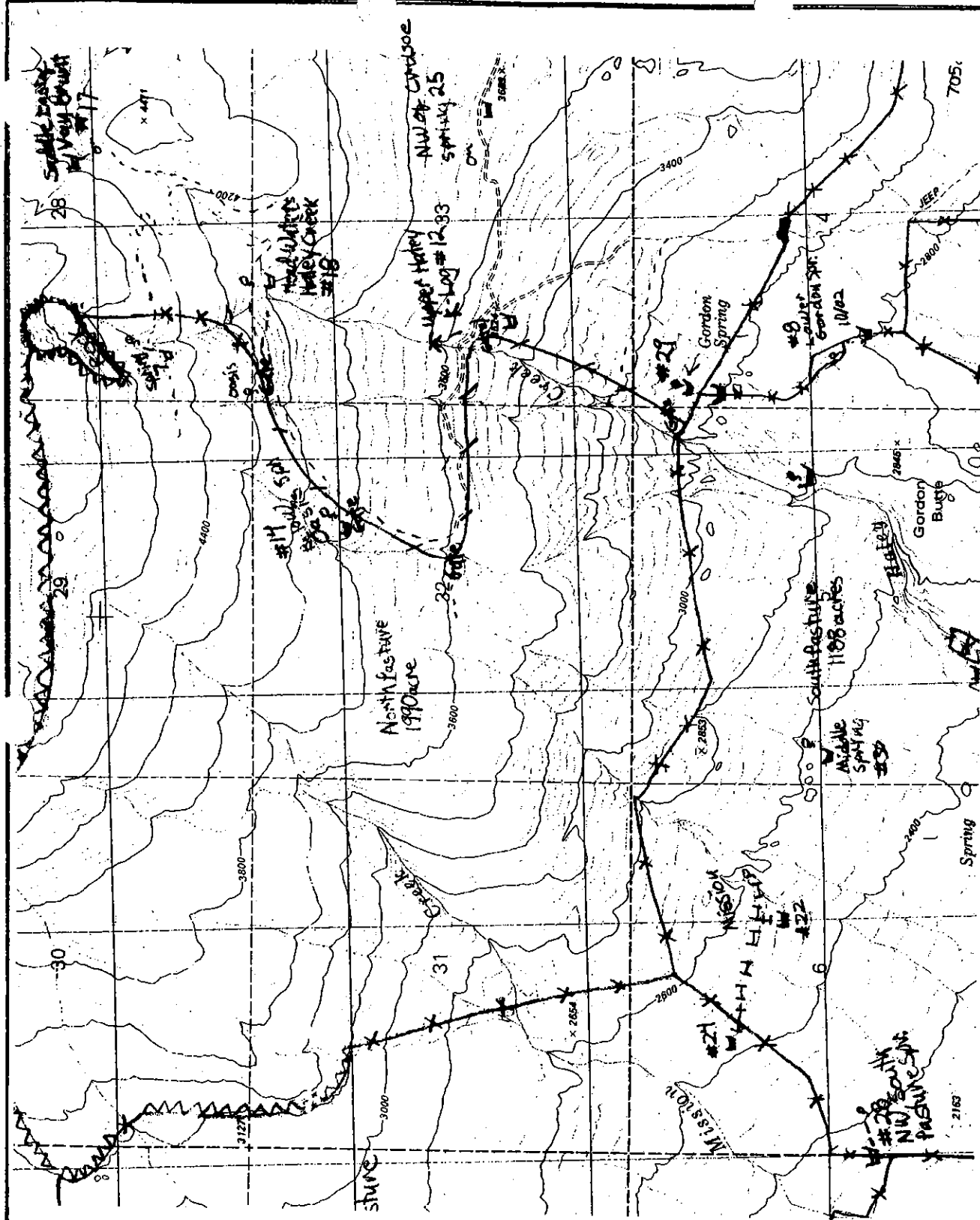
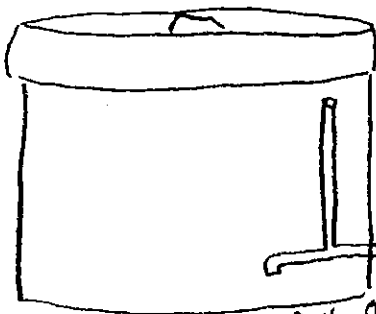




North
1:24,000

13.22	Location Map, Spring 25, 28, 14, 18, 17		WASHINGTON		Okanogan County		U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE		
	RECEIVED <u>Will Keller</u> DATE <u>5/04</u>		APPROVED BY <u>Will Keller</u>		DATE <u>6/8/04</u>		DATE		
DRAWN		DATE		TRACE		DATE		DATE	

Expanded View



Ground Surface

4'

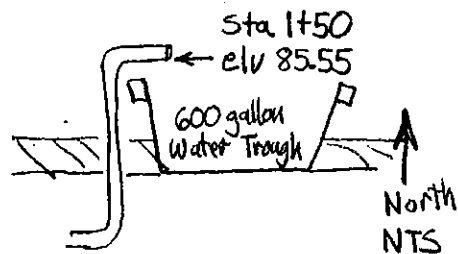
Sta 0+00
elev. 87.85

4.0' Post and Pole Fence

600 gallon

Trough

30'



Sta 1+50
elev 85.55

600 gallon
Water Trough

North
NTS

600 gallon trough

10'-3"x4" Perforated Drain

T 60' 3"

600 gallon
Trough

TBM 1 elev. 100.00

150'

15' 5" x 40'

106'

15'

35'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

10'

Flow

150' 5 wire fence

15' tall
dogwood

370'
5 wire fence

Spring 7

estimate 1 gpm Flow

un Named
Spring

APPROVED BY	DATE	TITLE	FILE
W. Keller	11/5/02	6/8/04	

DESIGNED BY	DATE	DRAWN	DATE	TRACED	DATE	CHECKED	DATE
W. Keller	11/5/02						

PLAN VIEW

T34N R28E NWSW section 28

CCT Range Unit 52

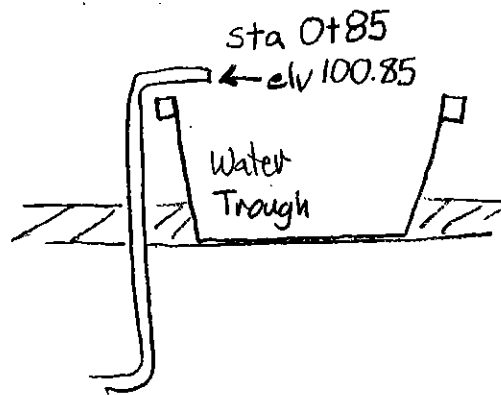
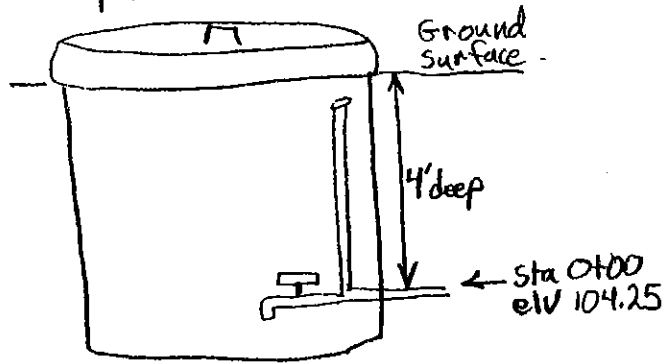
Spring 17

OKANOGAN COUNTY East of Van Buren

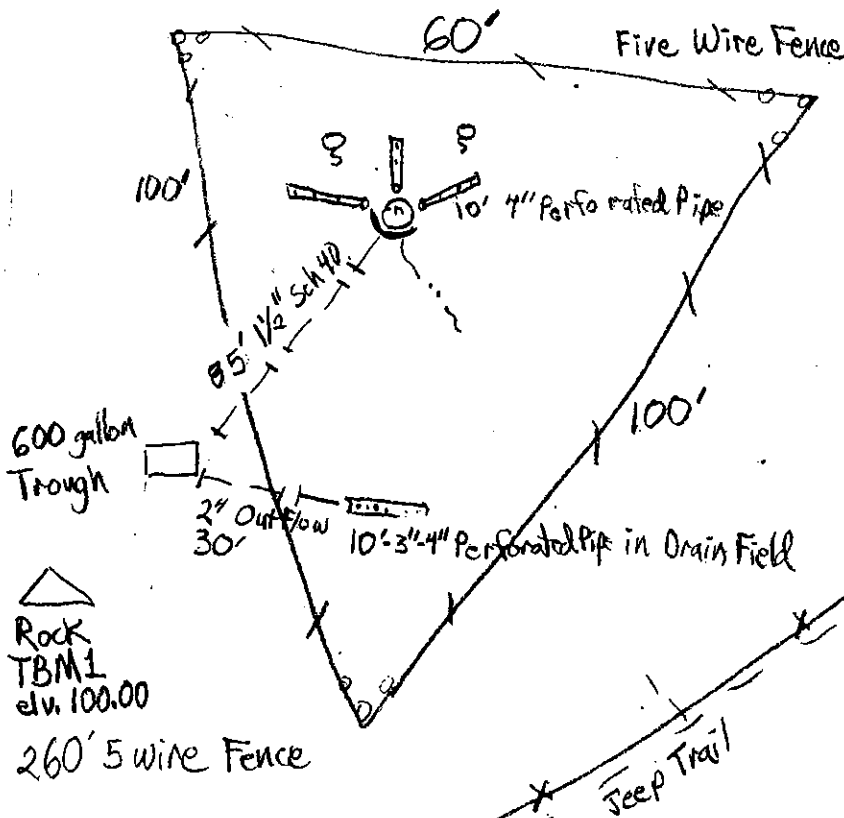
WASHINGTON
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

16-22

Expanded View



APPROVED BY	DATE	FILE
W. J. Kelley	11/5/12	6/18/14
DESIGNED	DATE	FILE
W. J. Kelley		
DRAWN	DATE	FILE
TRACED	DATE	FILE
CHECKED	DATE	FILE



T34N R28E NWNE section 32

CCT Range Unit 52

Spring #14

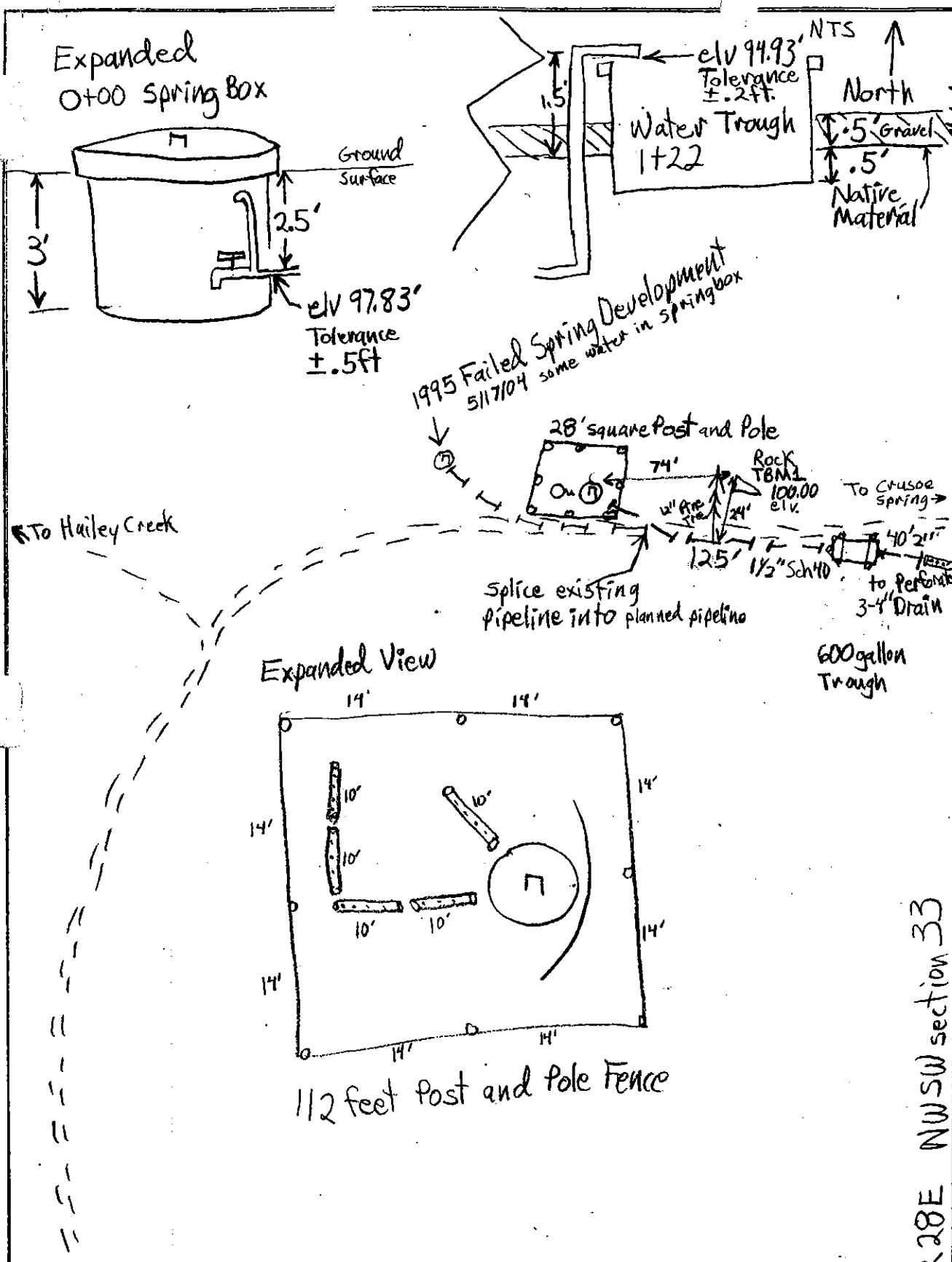
OKANOGAN COUNTY Below Oasis Spring

WASHINGTON
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

PLAN VIEW

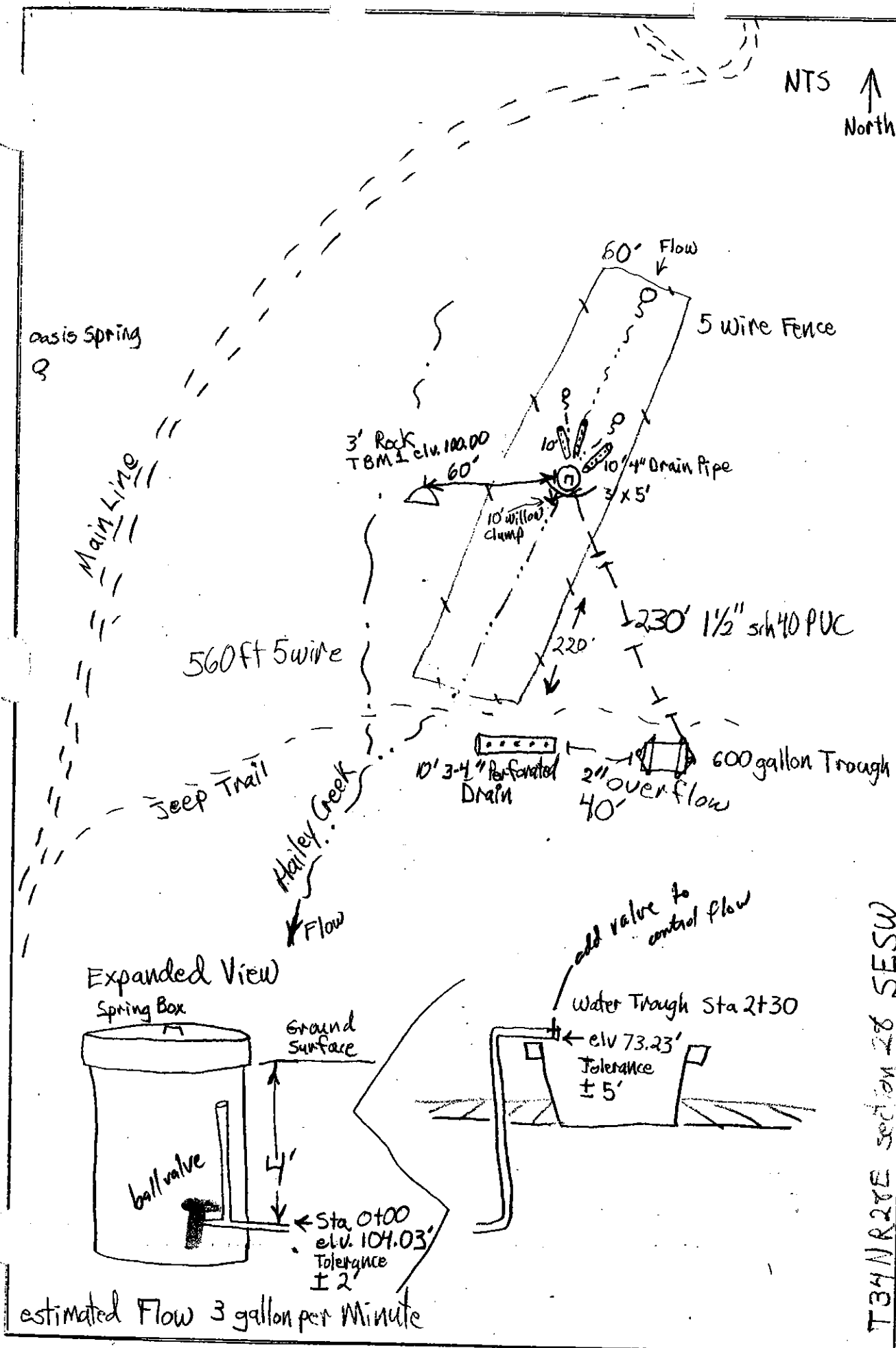
estimate 2 gallons per minute

13.22



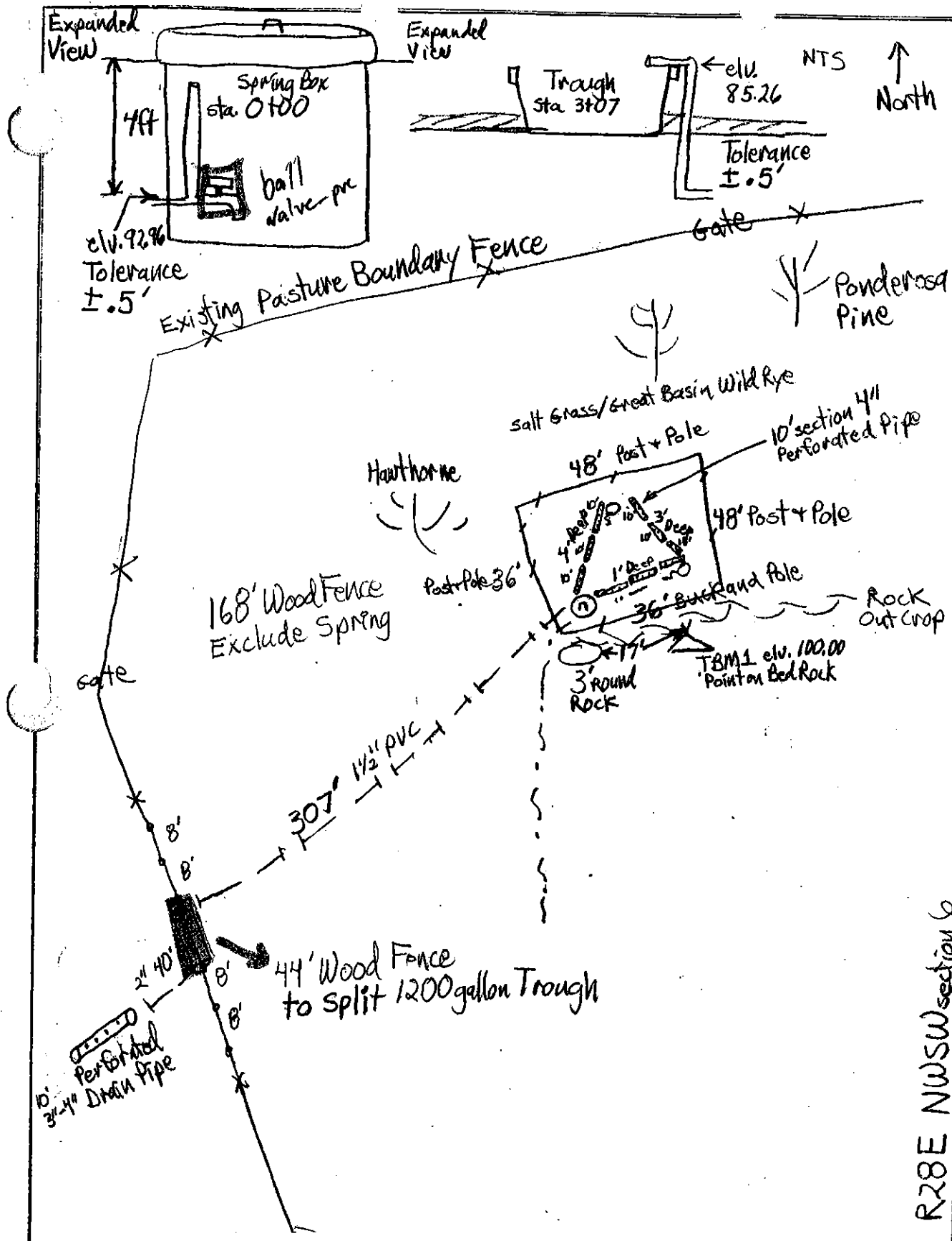
APPROVED BY <u>Will Keldor</u>		DATE <u>11/5/02</u>	FILE <u>6/8/04</u>
DESIGNED BY <u>Will Keldor</u>	DATE <u>11/5/02</u>	FILE <u>6/8/04</u>	FILE <u>6/8/04</u>
DRAWN BY <u>Will Keldor</u>	DATE <u>11/5/02</u>	FILE <u>6/8/04</u>	FILE <u>6/8/04</u>
BLANK	DATE <u>11/5/02</u>	FILE <u>6/8/04</u>	FILE <u>6/8/04</u>
T34N R28E NWSW section 33 CCT Range unit 52 Spring #25, NW of Cmsoe Spr OKANOGAN COUNTY U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE WASHINGTON PLAN VIEW			
10-22			

Estimated Flow 1.5 gallon per Minute.



DESIGNED BY: Will Keller		DATE: 11/5/02
CHECKED BY:	DATE:	
FILE:	DATE:	
FILE:	DATE:	

T34NR28E section 28 SE SW	
CCT Range Unit 52	
Spring 18, Headwater Hailey Creek	
OKANOGAN COUNTY	
WASHINGTON	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	
7-22	



Estimated Flow at 2 gallon per minute

DESIGNED BY	DATE	DRAWN	DATE	TRACKED	DATE	OK'ED	DATE
APPROVED BY	6/8/04						

WASHINGTON

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

OKANOGAN COUNTY

PLAN VIEW

T33N R28E NWSW section 6

CCT Range Unit 52

Spring #28, ~~the~~ ~~water~~ ~~split~~

4.22

21.5' from rock to
Center of channel
upstream side of K-Log

Pipeline
100' 1 1/2" PVC

30'

21.5'

TBM 1
Top of Rock
Elev. 100.00
3' Horizontal
Bedrock

K-log Wier

Planned 5 wire fence

60'

Flow

Road

drawing not to scale

1200 gal. Trough
8X12

6 - 4' Post & Pole Fence
to prevent livestock access
from lower side

Over Flow

Gravel sump
(See Detail)



DESIGNED: M. Mizes DATE: 05/04
DRAWN: M. Mizes

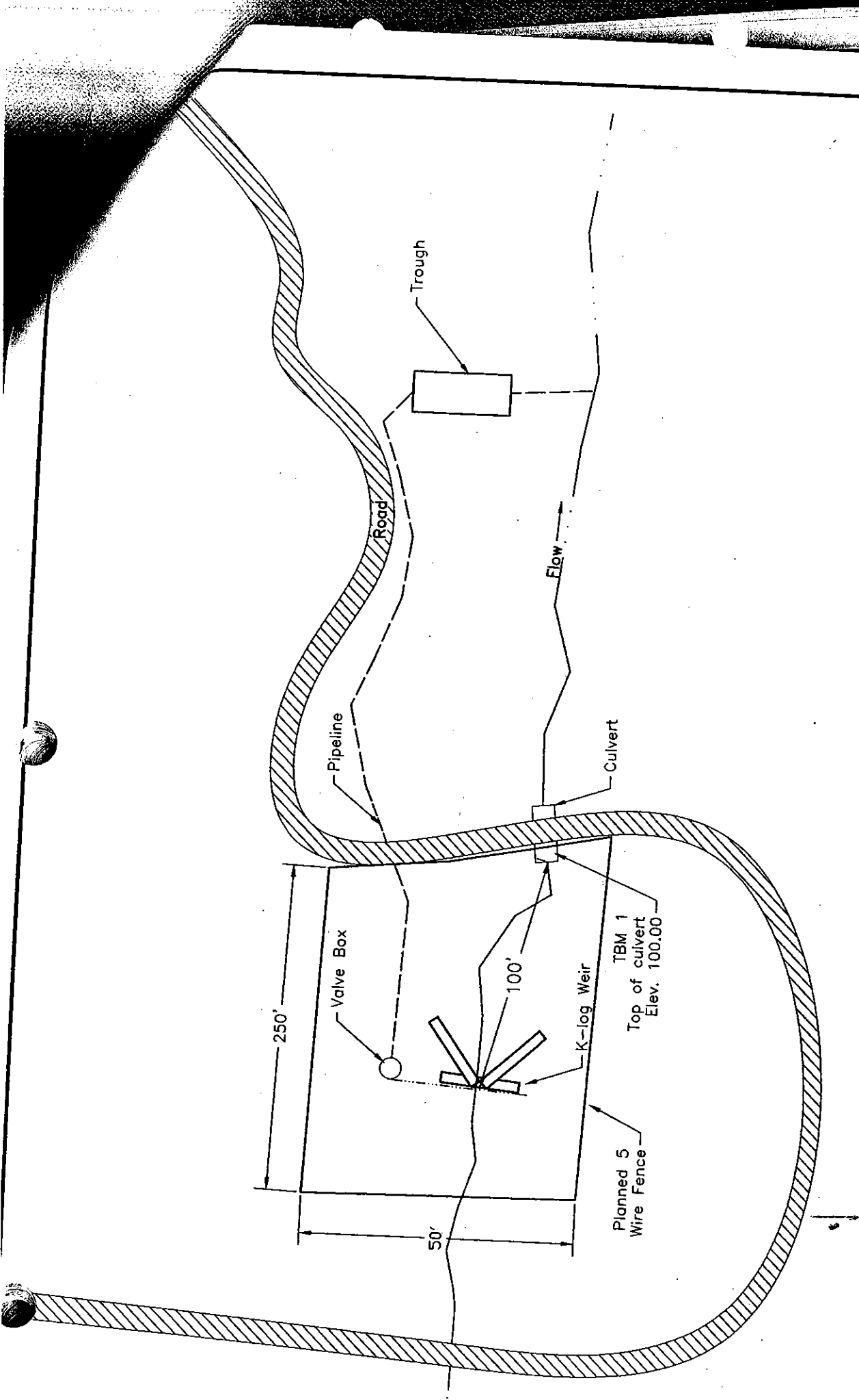
PLAN VIEW
RANGE UNIT 10, LOWER HALEY CREEK
STRUCTURE FOR WATER CONTROL

OKANOGAN COUNTY

REVISION NO.

DRAWING NO.

spring 7-03



(drawing not to scale)

PLAN VIEW

SPRING 4, 1 MILE E. OF VAN BRUNT SADDLE
STRUCTURE FOR WATER CONTROL, PIPELINE & TROUGH

OKANOGAN COUNTY

WASHINGTON
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE

REVISION NO.

DESIGNED M. Mires DATE 05/03

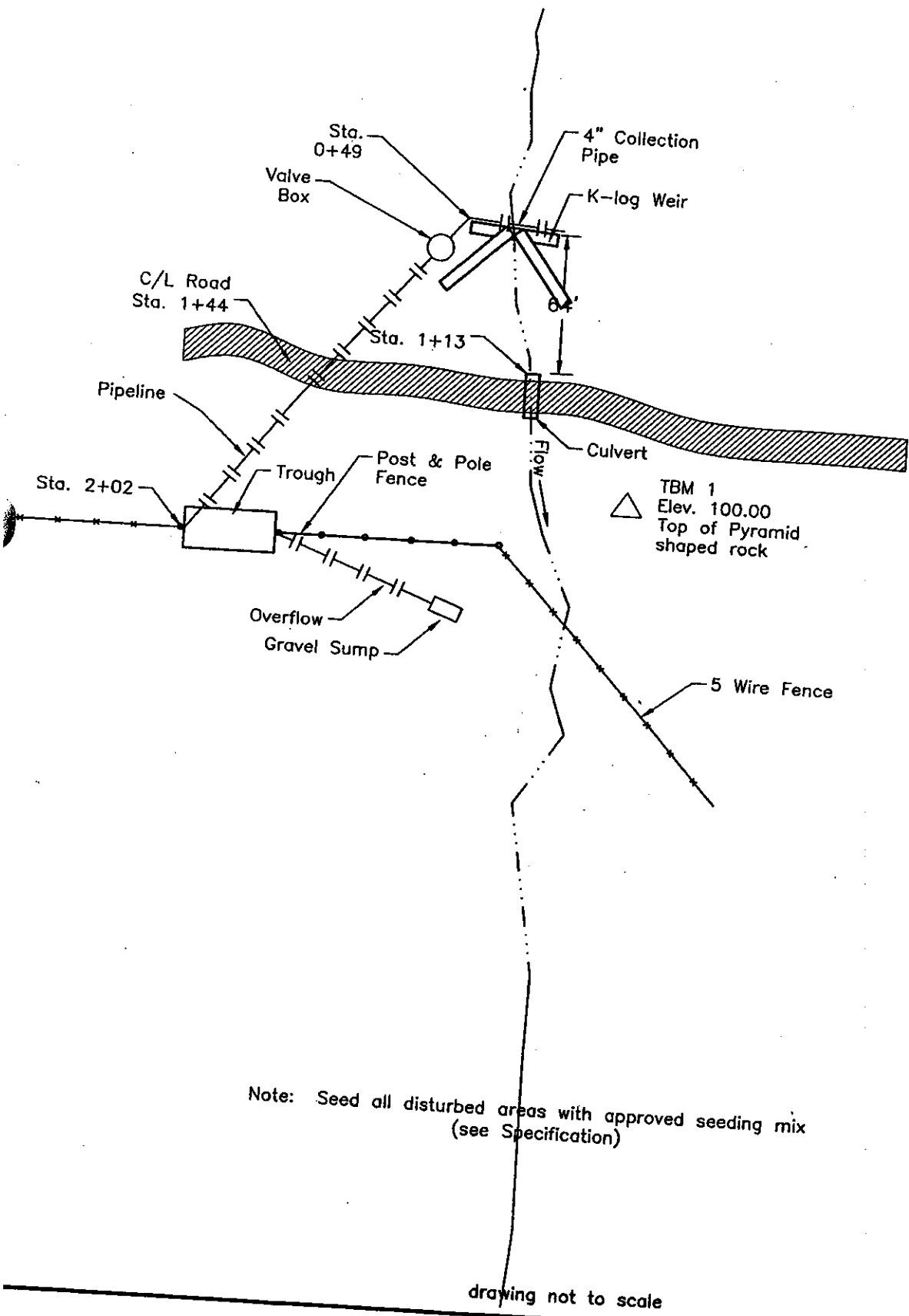
DRAWN M. Mires DATE 05/03

TRACED _____ DATE _____

CHECKED

APPROVED BY _____

TITLE

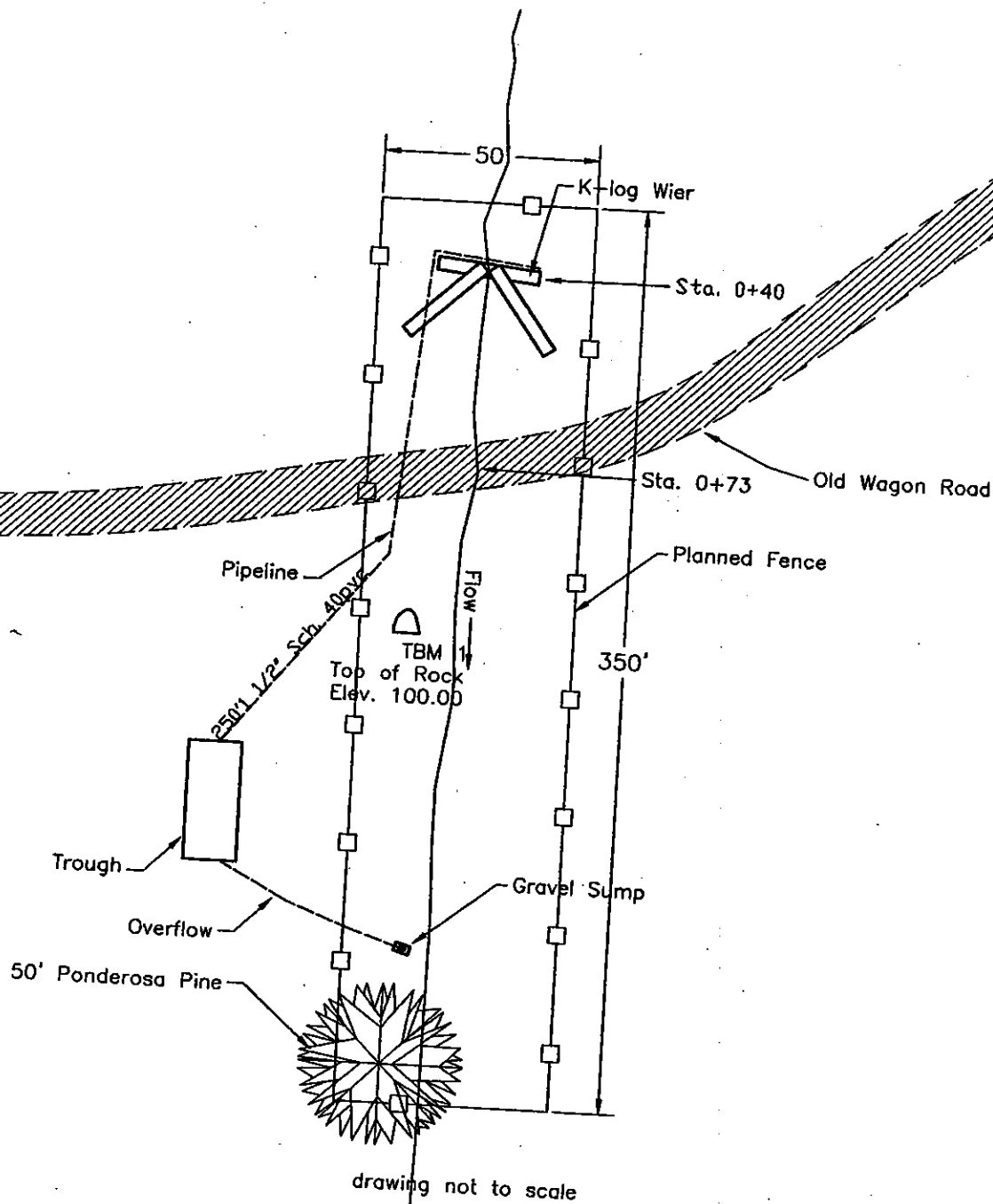


Note: Seed all disturbed areas with approved seeding mix
(see Specification)

drawing not to scale



APPROVED BY: <i>Michelle Spivey</i> TITLE: <i>Soil Conservation Technician</i> DATE: <i>08/03</i>		DESIGNED: <i>M. Mires</i> DATE: <i>08/03</i>	DRAWN: <i>M. Mires</i> DATE: <i>08/03</i>	TRACED: <i></i> DATE: <i></i>	CHECKED: <i></i> DATE: <i></i>
OKANOGAN COUNTY RANGE UNIT 52, UPPER HALEY CREEK STRUCTURE FOR WATER CONTROL, PIPELINE & TROUGH U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE WASHINGTON					
REVISION NO.		NO. 01.dw			
DRAWING NO. <i>upperhaley-03</i>		18			
SHEET <i>3</i> OF <i>18</i>		18			



drawing not to scale



DESIGNED	M. Mires	DATE	08/03
DRAWN	M. Mires	DATE	08/03
TRACED		DATE	
APPROVED BY		M. Mires	
TITLE		Soil Conservation Technician	

PLAN VIEW

RANGE UNIT 10, LOWER HALEY CREEK
STRUCTURE FOR WATER CONTROL, PIPELINE & TROUGH

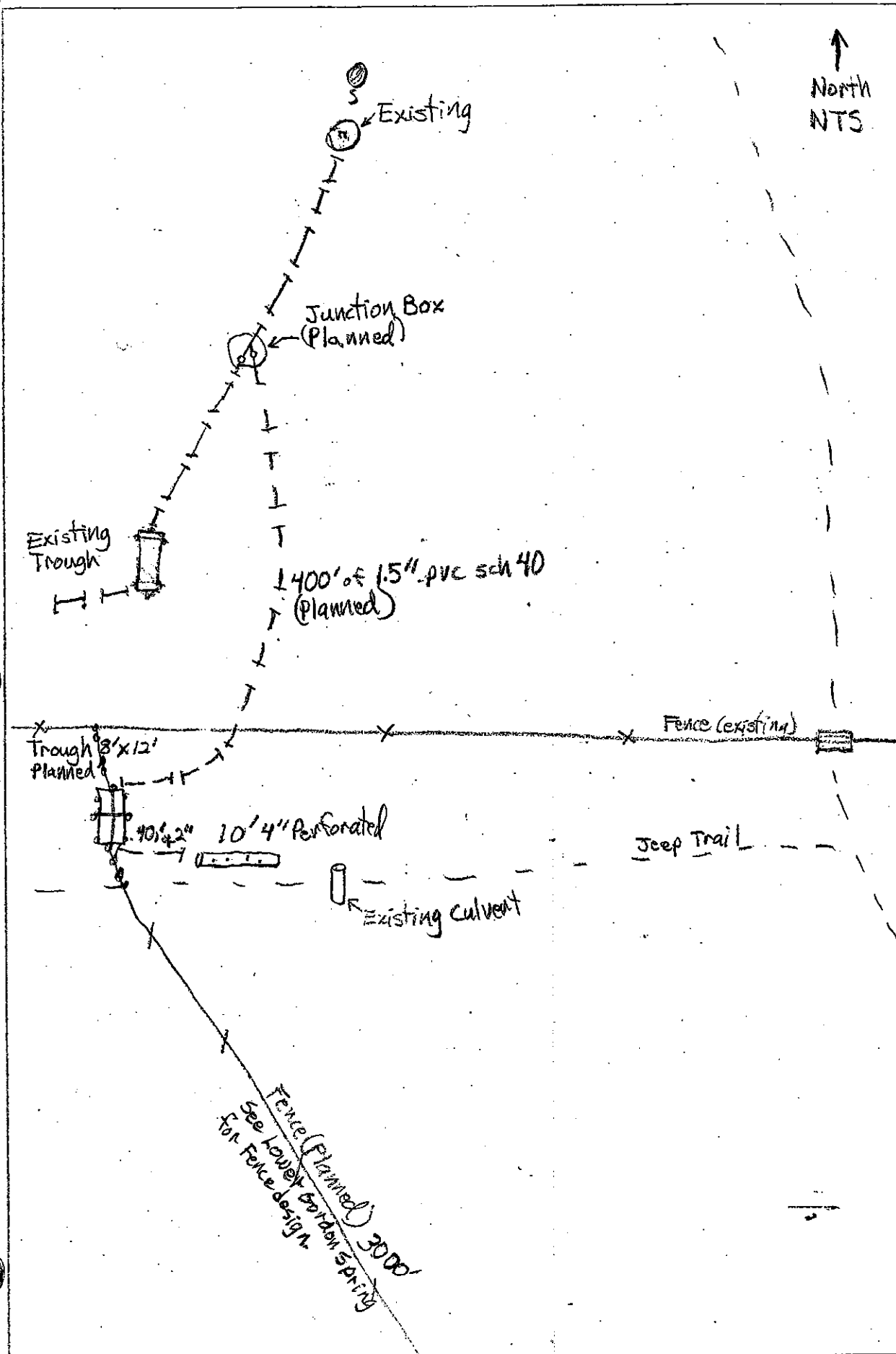
OKANOGAN COUNTY
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE
WASHINGTON

REVISION NO.

DRAWING NO.

lowhaley-09

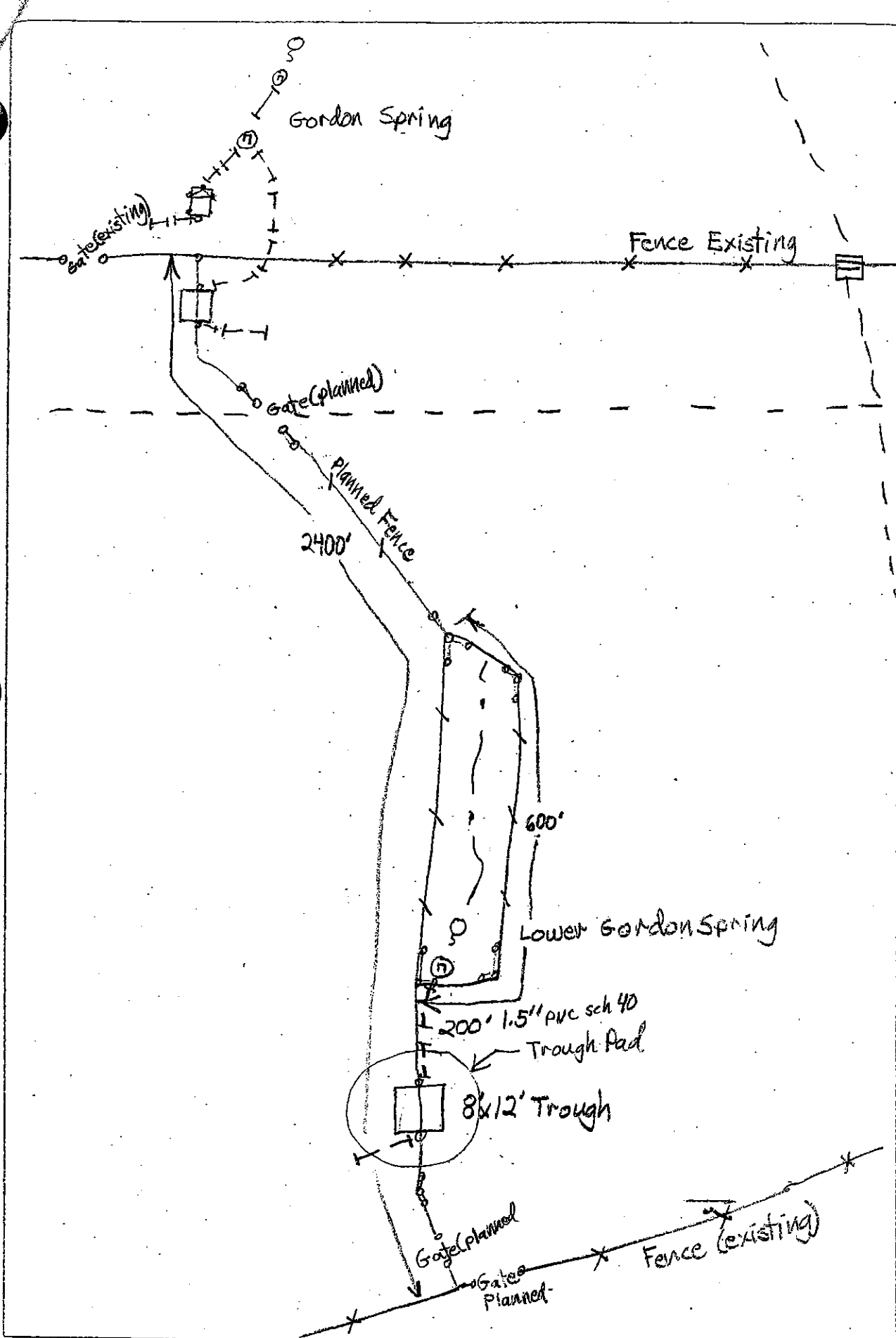
SHEET 10 OF 18



APPROVED BY: <u>William Ziesler</u>		TITLE: _____	DATE: _____
DESIGNED BY: <u>William Ziesler</u>		TITLE: _____	DATE: _____
DRAWN BY: _____		TITLE: _____	DATE: _____
CHECKED BY: _____		TITLE: _____	DATE: _____

WASHINGTON	
Gordon Spring, CCT RUS2	
OKANOGAN COUNTY	
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	

3.9



DESIGNED Will Keller DATE 7/26/02 TITLE _____
 APPROVED BY Will Keller DATE _____
 DRAWN _____
 PLAN VIEW

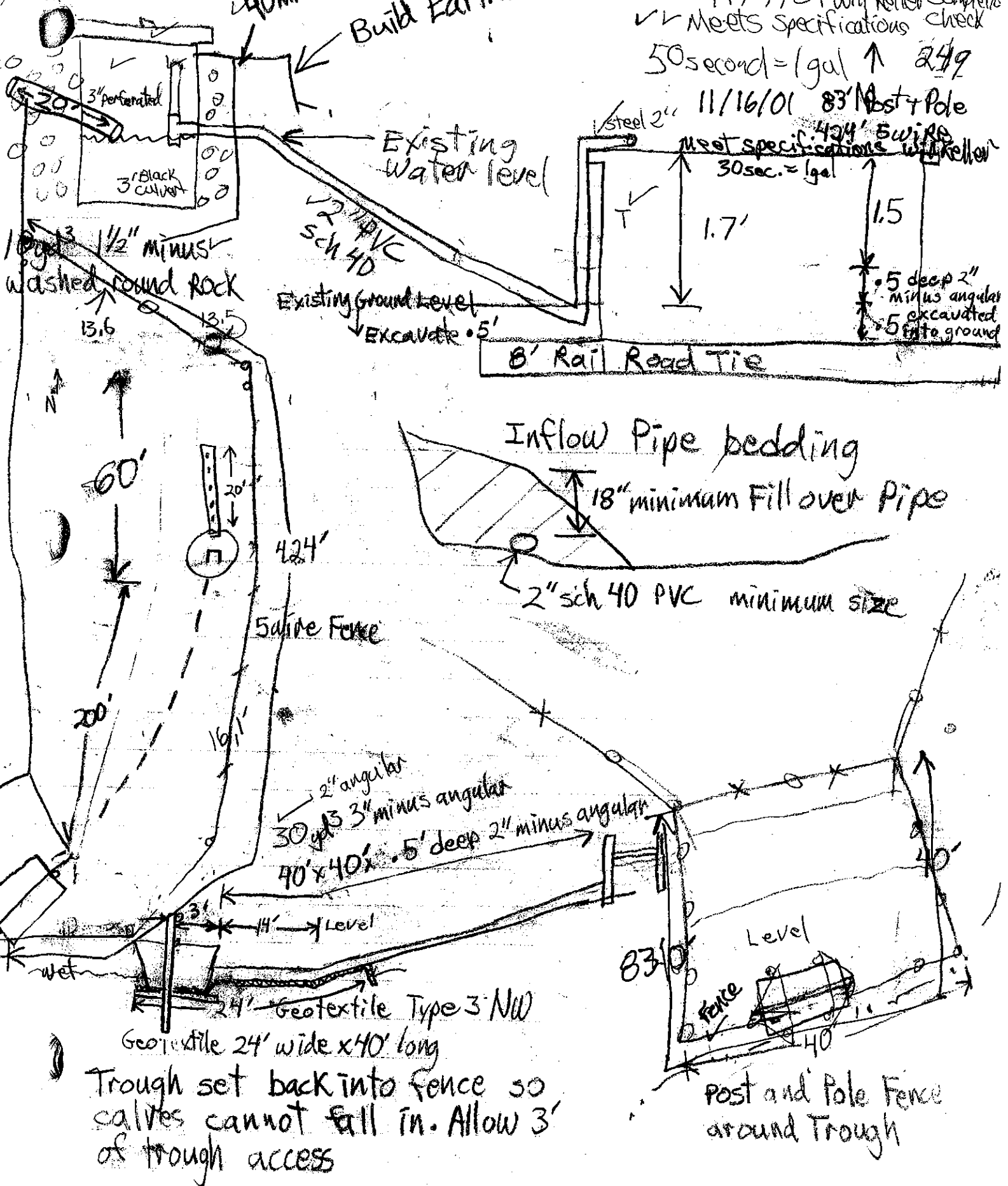
Project layout PG3 RU52
Lower Stapanop, Lower Seep Spring
40mil Plastic
Build Earthen Dam

9/27/01
Will Keller
11/7/01 Will Keller complete
✓ Meets Specifications check

50 second = 1 gal ↑ 249

11/16/01 83' Post & Pole

424' 5 wire
meet specifications with Keller
30 sec. = 1 gal



Trough set back into fence so calves cannot fall in. Allow 3' of trough access

Material Estimate	Unit
Excavation	
Gravel	
Riprap	

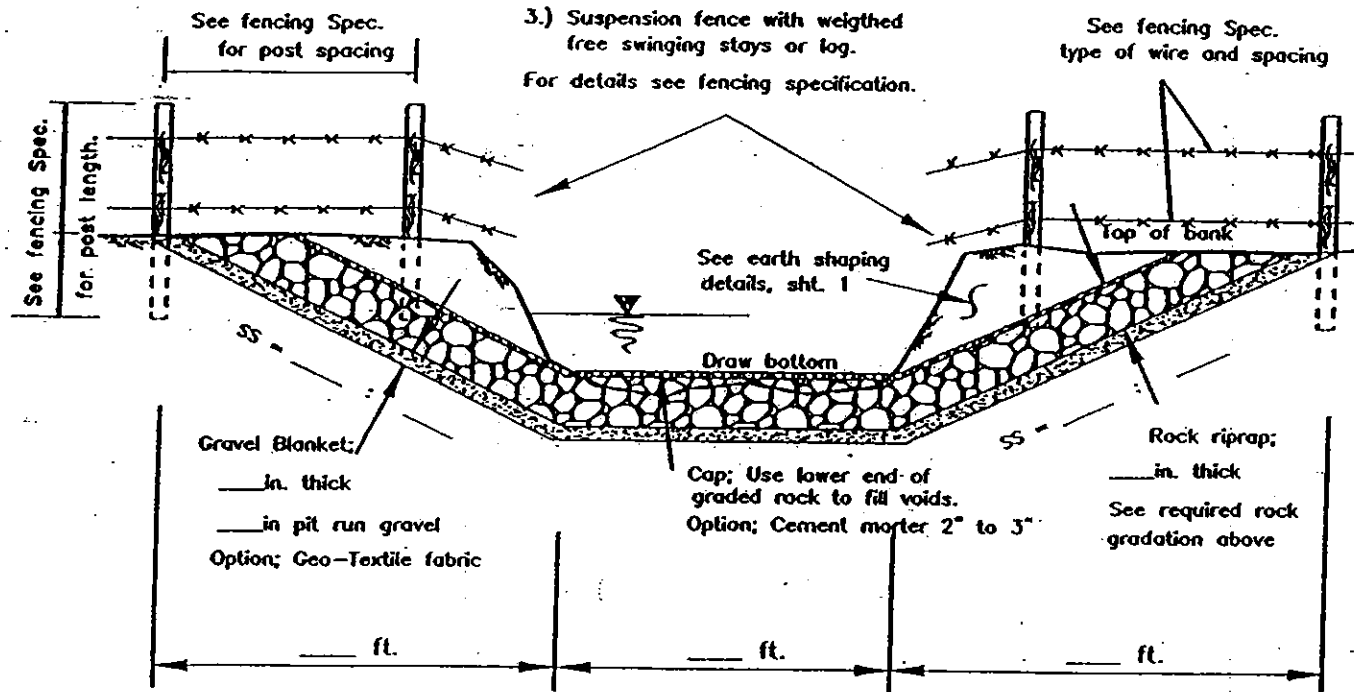
Rock riprap shall conform to the following gradation:
Use angular, dense rock.

Size Opening (inches)	% Passing Dry Wt. Basis
100	
80 - 95	
45 - 80	
15 - 45	
0 - 15	

OPTIONS:

- 1.) Permanent fence with weighed anchors.
- 2.) Removeable fence at end of season.
- 3.) Suspension fence with weighed free swinging stays or log.

For details see fencing specification.



CROSS SECTIONAL VIEW — ANIMAL WATER GAP.

NOT TO SCALE

DESIGN DATA/CONCERNS:

- 1.) MAXIMUM S.S. SHOULD BE 3:1
- 2.) FINISHED RAMP SURFACE SHOULD BE ROUGH & SLIGHTLY IRREGULAR FOR FOOTING.
- 3.) SIZE ROCK RIPRAP FOR BANK FULL VELOCITIES.
- 4.) MINIMUM GAP WIDTH SHOULD BE 12 FT.
- 5.) FENCE WIDTH SHOULD NOT EXCEED 2 FT. GREATER THAN THE ROCK GAP WIDTH.
- 6.) _____

THE FOLLOWING SPECIFICATIONS ARE ATTACHED:

- 1.) _____
- 2.) _____
- 3.) _____
- 4.) _____

Job Code: _____, Job Class _____

REFERENCE

Owner: _____

Project Location: _____

NATURAL RESOURCES
CONSERVATION SERVICE

U.S. DEPARTMENT OF AGRICULTURE

STANDARD DWG. NO.

H20gap.dwg

SHEET 2 of 2

DATE: _____

