



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
ENVIRONMENTAL FIELD OFFICE**

**3711 Middlebrook Pike
Knoxville, TN 37921**

(865)594-6035 STATEWIDE 1-888-891-8332 (865)594-6105

Receipt: EAC-K-12296

Date of Receipt: 10-May-2022 11:59 am

Created By: Mandi Rodriguez (BG57035)

County: Sevier

EFO/Office: Knoxville Field Office

Received From: Johnny Ray Williams TNDL

Company/Affiliation:

Recipient Address: 251 Fellers Rd
CHUCKEY, TN- 37641

Amount Received: \$50.00

Method of Payment: CHECK

Check Number: 215

Comments: ARAP - 1467 Douglas Dam Rd in Sevier County

Division	Description	TDEC Code	Quantity	Unit Price	Line Total
WPC	WPC-ARAP \$50 Permit Application	43.340.F02	1	\$50.00	\$50.00

Receipt Total: \$50.00



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
Division of Water Resources
William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee, 37243
1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY	Site #:	Permit #:	
Section 1. Applicant Information (individual responsible for site, signs certification below)			
Applicant Name (company or individual): Larry Privette		SOS #:	Status: N/A
Primary Contact/Signatory:		Signatory's Title or Position: contractor	
Mailing Address: 251 Fellers Rd		City: Chuckie	State: TN Zip: 37641
Phone: (423)483-4923	Fax:	E-mail:	
Section 2. Alternate Contact/Consultant Information (a consultant is not required)			
Alternate Contact Name: Lilian Williams			
Company:		Title or Position:	
Mailing Address: 1476 Douglas Dam Rd		City: Sevierville	State: TN Zip: 37862
Phone:	Fax:	E-mail:	
Section 3. Fee (application will be incomplete until fee is received)			
<input type="checkbox"/> No Fee		<input checked="" type="checkbox"/> Fee Submitted with Application	
		Amount Submitted: \$ 50.00	
Current application fee schedules can be found at the Division of Water Resources webpage at: https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".			
Billing Contact (if different from Applicant):		Name:	Email:
Address:		Phone:	
Section 4. Project Details (fill in information and check appropriate boxes)			
Site or Project Name: 1467 Douglas Dam Rd		Nearest City, Town or Major Landmark: Sevierville	
Street Address or Location (include zip):			
County(ies): Sevier		MS4 Jurisdiction: Sevier	Latitude (dd.dddd): 35.903728
			Longitude (dd.dddd): -83.577803
Resources Proposed for Alteration:		<input checked="" type="checkbox"/> Stream / River <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir	
Name of Water Resource (for more information, access http://tdeconline.tn.gov/dwr): Kellum Creek			
Brief Project Description (a more detailed description is required under Section 8): <div style="text-align: right;">replacing a low water bridge for access</div>			
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If Yes, provide the permit reference numbers:			
Will the activity require a 401 Water Quality Certification: <input type="checkbox"/> Yes <input type="checkbox"/> No			
If Yes, attach any 401 WQC pre-filing meeting request documentation			
Is the proposed activity associated with a larger common plan of development: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If Yes, submit site plans and identify the location and overall scope of the common plan of development.			
Plans attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):			

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Section 5. Project Schedule (fill in information and check appropriate boxes)		
Proposed start date: 06/09/22	Estimated end date: 07/31/22	
Is any portion of the activity complete now?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If yes, describe the extent of the completed portion:		

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Description		Attached Yes	No
6.1 A narrative description of the scope of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.2 USGS topographic map indicating the exact location of the project (can be a photographic copy)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.3 Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.4 A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.5 A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.6 In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.7 A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 7. Project Rationale		Attached Yes	No
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>


Section 8. Technical Information		Attached Yes	No
8.1 Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5 x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.2 For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.3 Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Section 9. Water Resources Degradation (degree of proposed impact)
<p>Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than <i>de minimis</i> degradation to water quality.</p> <p>Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation:</p> <p><input checked="" type="checkbox"/> a. <i>De minimis</i> degradation, no appreciable permanent loss of resource values</p> <p><input type="checkbox"/> b. Greater than <i>de minimis</i> degradation (if greater than <i>de minimis</i> complete Sections 10-11)</p> <p>For information and guidance on the definition of <i>de minimis</i> and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule: https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm</p> <p>For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at: https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html</p>

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Section 10. Detailed Alternatives Analysis		Attached Yes No	
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.	<input type="checkbox"/>	<input type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input type="checkbox"/>
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	<input type="checkbox"/>	<input type="checkbox"/>

Section 11. Compensatory Mitigation		Attached Yes No	
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.	<input type="checkbox"/>	<input type="checkbox"/>
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.	<input type="checkbox"/>	<input type="checkbox"/>
11.3	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input type="checkbox"/>
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed	<input type="checkbox"/>	<input type="checkbox"/>
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input type="checkbox"/>

Certification and Signature			
<p>An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.</p> <p><i>I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.</i></p>			
Larry Privette <hr/> Printed Name	Contractor <hr/> Official Title	 <hr/> Signature	05/09/22 <hr/> Date

Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



Storm Water Collection

GPS accuracy 59.4 ft - 30 ft required

Dropped Pin

2.8 mi

Details

What's Here

Coordinates

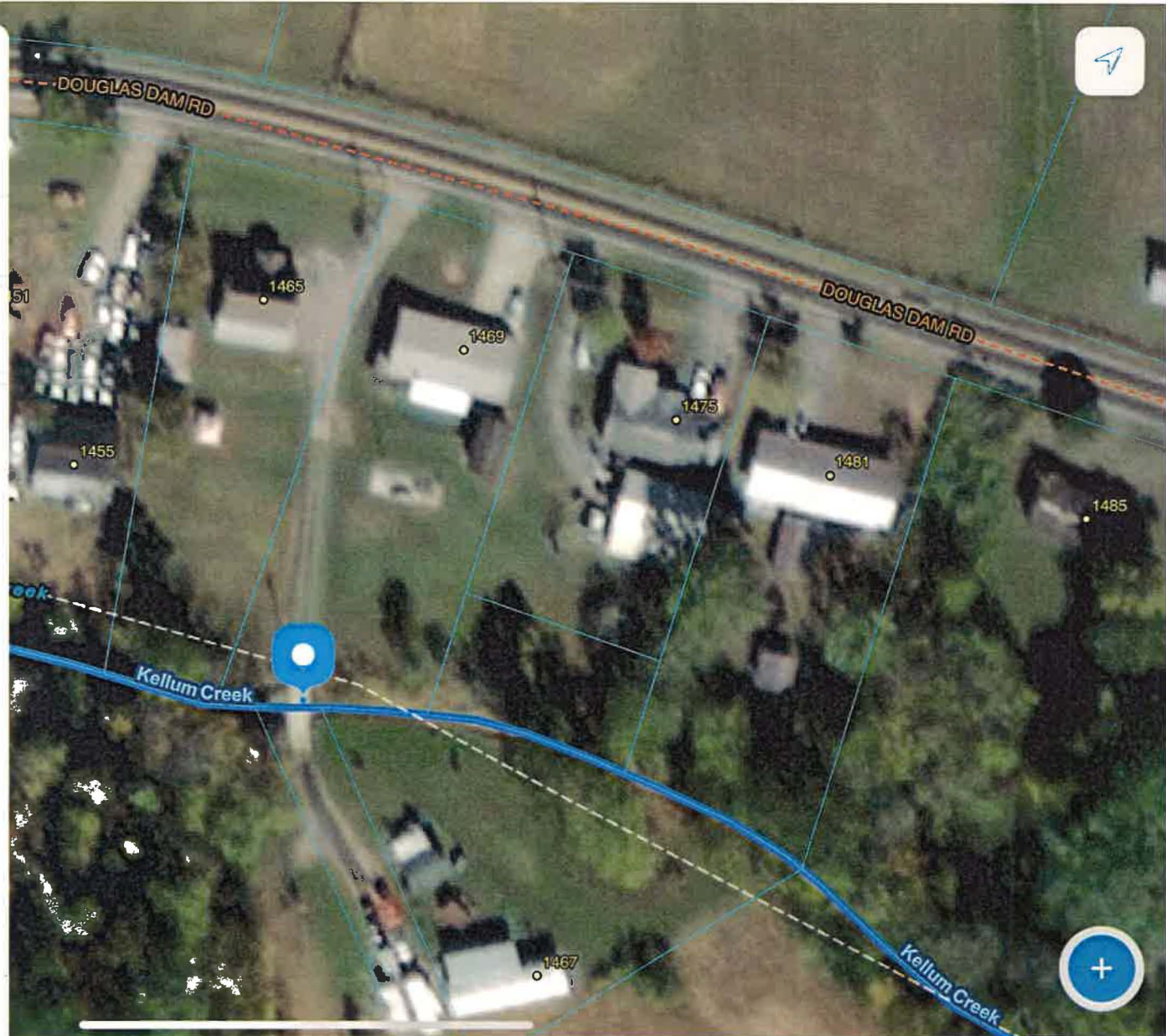
35.903728°N 83.577803°W

Collect Here

Directions

Compass

Favorite





PLAN FOR AQUATIC RESOURCE ALTERATION PERMIT

Project Description:

Remove an existing low water dam and install three corrugated metal squash tiles (oval shaped)

Existing Stream and Riparian Area:

The existing stream channel is approx. 15-20 ft wide with a rocky bedrock and minimal sand and sediment bottom. The right stream bank looking down stream is a residential yard and the left stream bank has a few second growth trees and mowed yard.

Purpose of Crossing:

The low water bridge is access to an elderly woman's residence who has health issues. The low water bridge is frequently flooded and inaccessible.

Alternatives:

None

Mitigation:

None

Sequencing of Construction and Methods to be used:

1. Install silt fence to prevent sediment from entering the stream. Straw waddles may be substituted due to shallow bedrock.
2. Install silt fence around the spoil area
3. Install the coffer dam
4. Install the plywood 4x8 ft sheet for energy dissipation
5. Install hay bales as backflow prevention wrapped in plastic due to the stream bottom being rock
6. Install the pump and hose to allow working in the dry as much as possible. The project should be put off until low flow due to the large watershed draining to this driveway.
7. Demolition the old concrete bridge and dispose of the materials properly
8. Excavate the bottom of the stream to accommodate the tiles and place spoil behind the silt fence for protection.
9. Install the squash tiles properly bedded to allow aquatic life free flow through the tiles.
10. Install the forms and gravel base
11. Install the rebar and steel
12. Install the concrete wearing surface
13. Install the rip rap inlet and outlet protection
14. Wreck the forms and remove to the spoil area
15. Remove the pump and hose

16. Remove the energy dissipation plywood and hay bales that served as backflow prevention.
17. Remove the coffer dam.
18. Remove the silt fence and straw waddles
19. Remove and properly dispose of all materials in the spoil area.
20. Remove the silt fence around the spoil area
21. Reseed and straw any disturbed soils to reestablish vegetation.

SITE DRAWING

See attached

PICTURE A

See labeled photo - upstream

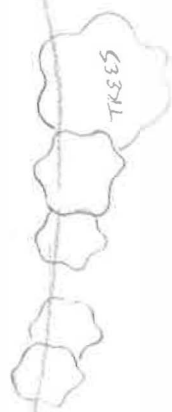
PICTURE B

See labeled photo - downstream



← DOUGLAS DAM TO HWY 66

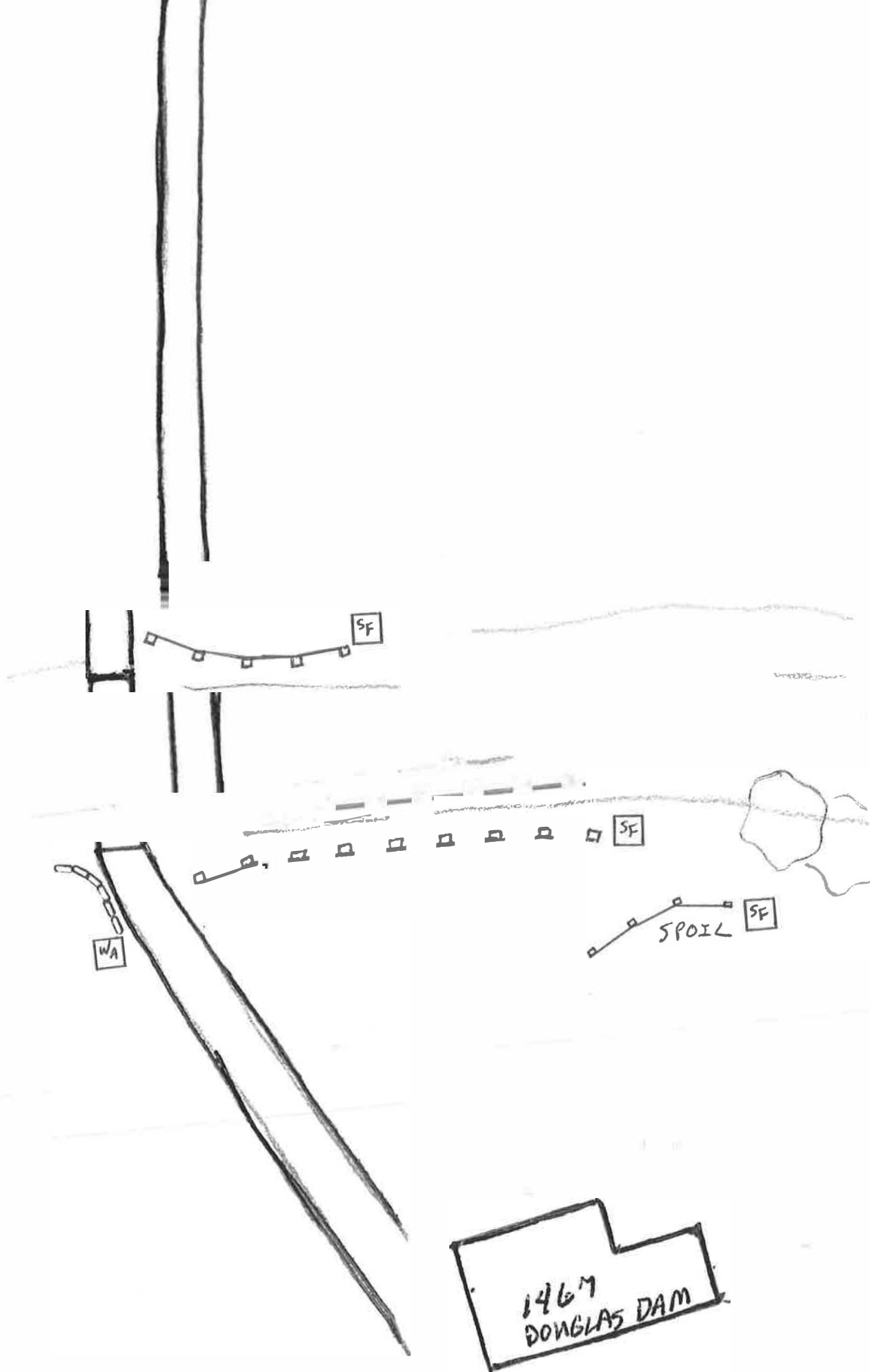
← KELLUM CREEK ←

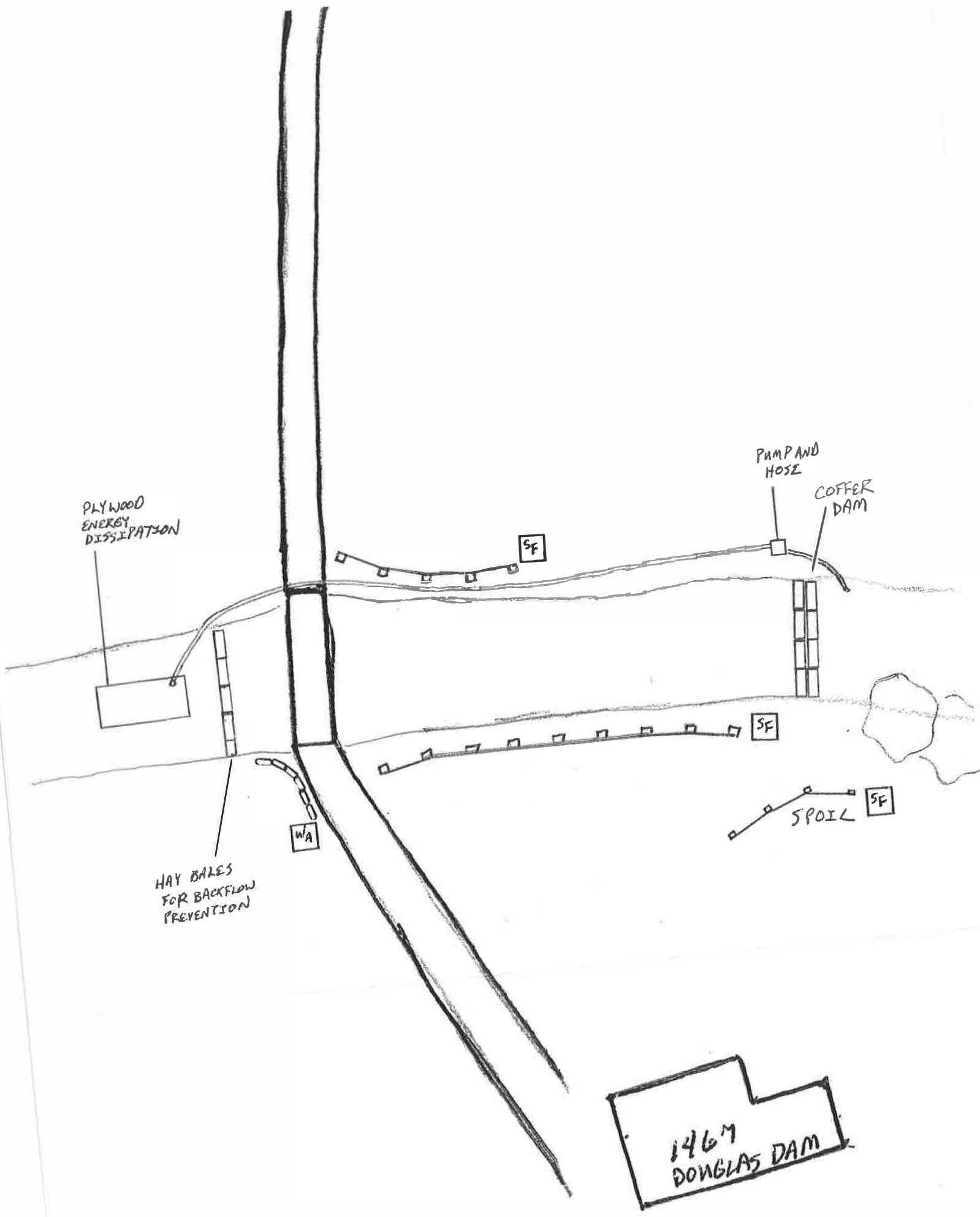


3331L
TREES

146'
DOUGLAS DAM

CONTIN





PLYWOOD
ENERGY
DISSIPATION

HAY BALES
FOR BACKFLOW
PREVENTION

WA

SF

PUMP AND
HOSE

COFFER
DAM

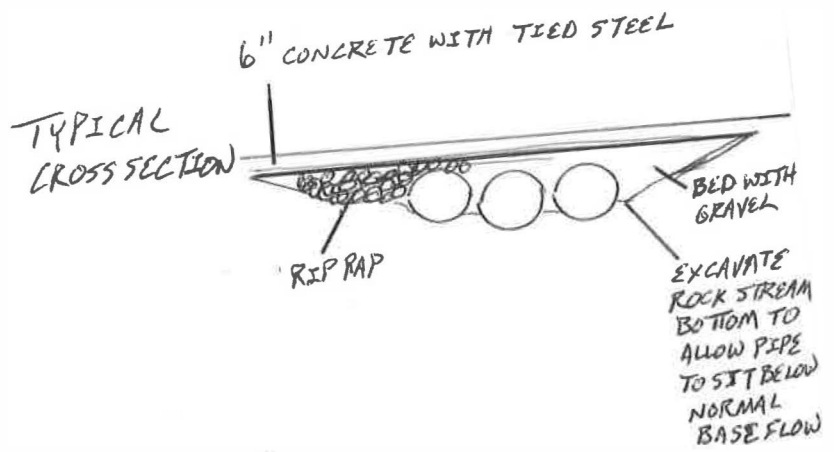
SF

SPOIL

SF

146M
DOUGLAS DAM

PLAN TO WORK IN THE DRY
AS POSSIBLE

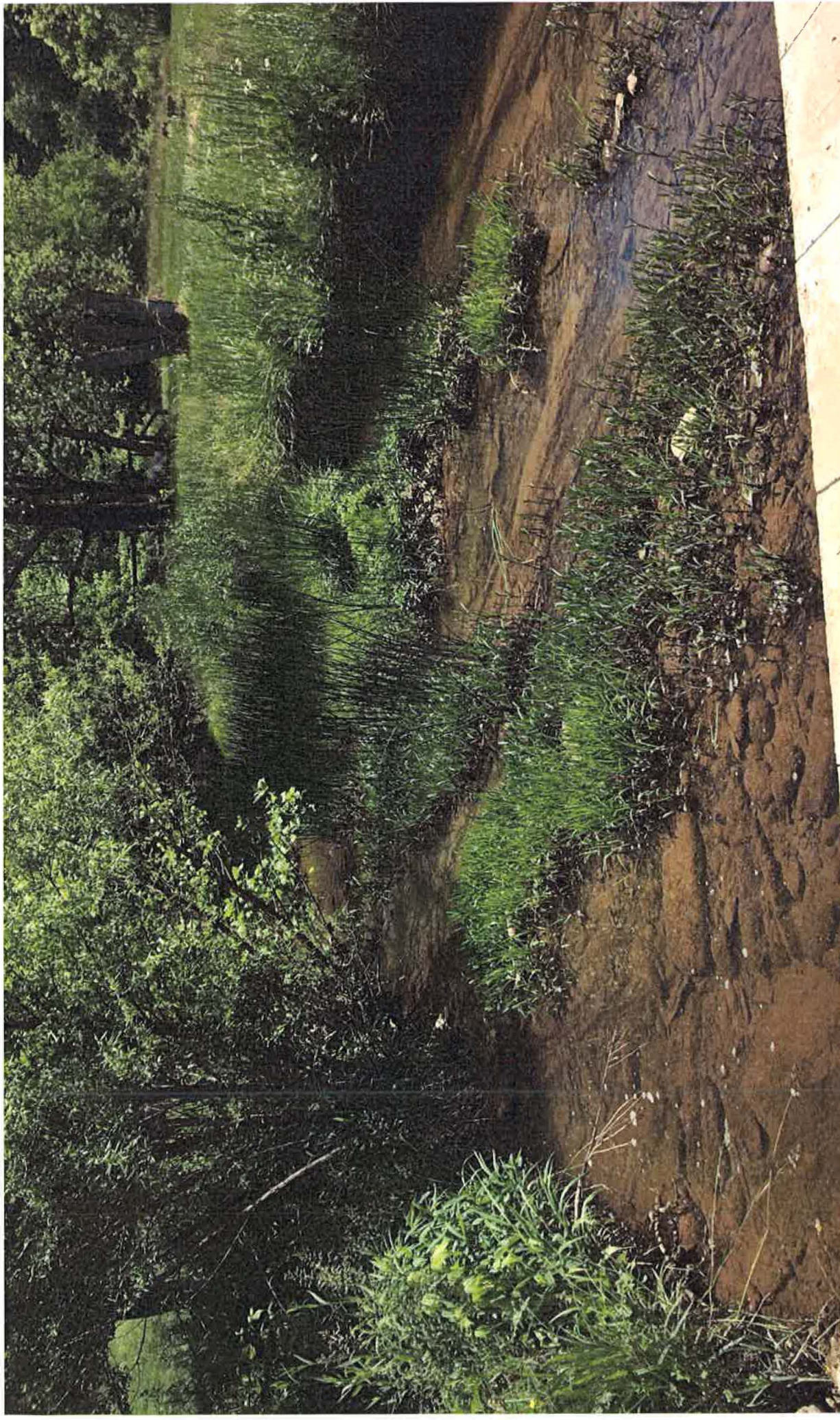


3-48" SQUASH TILES
36" X 54"

Ip

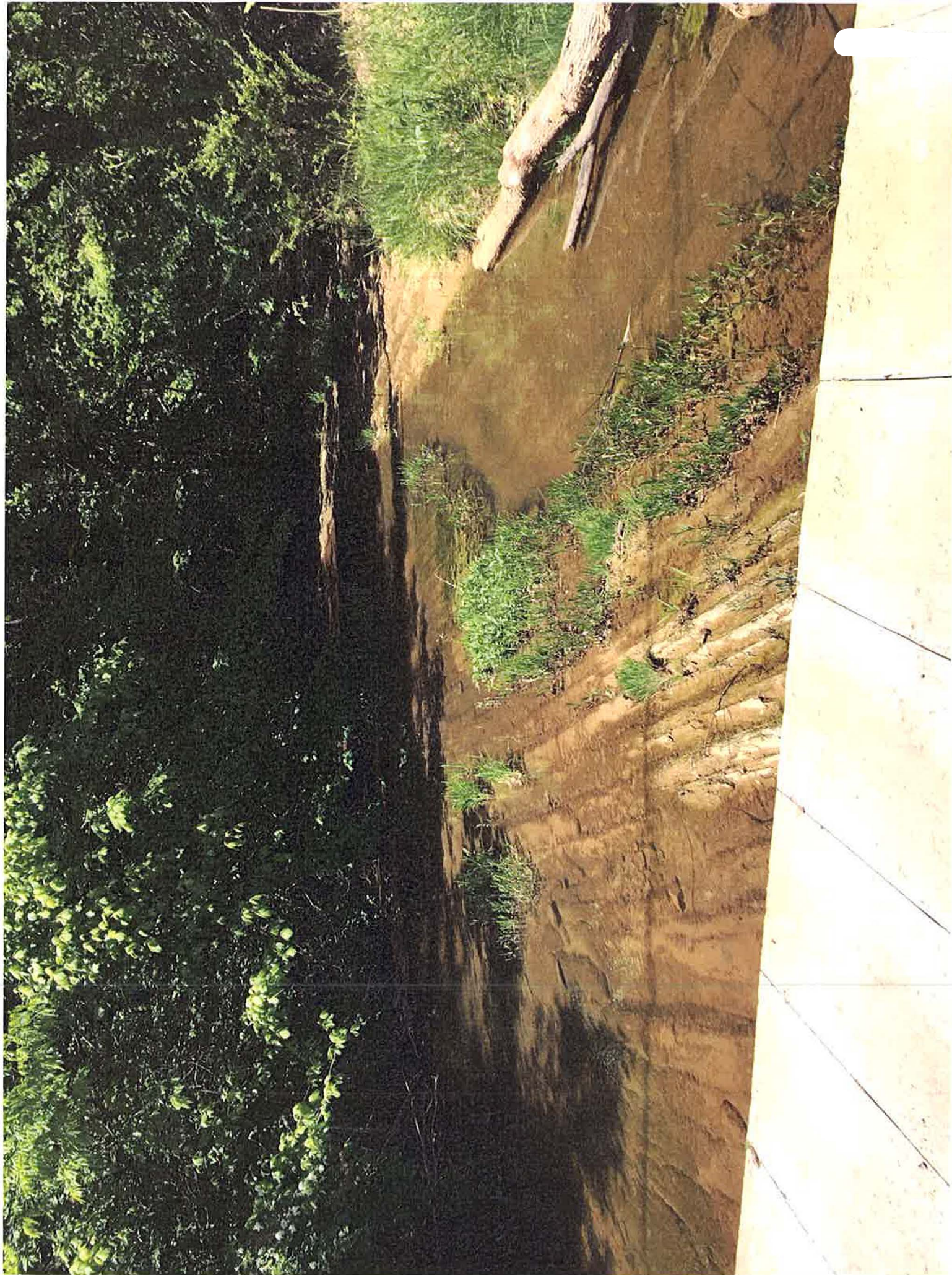
Op

1467
DOUGLAS DAM



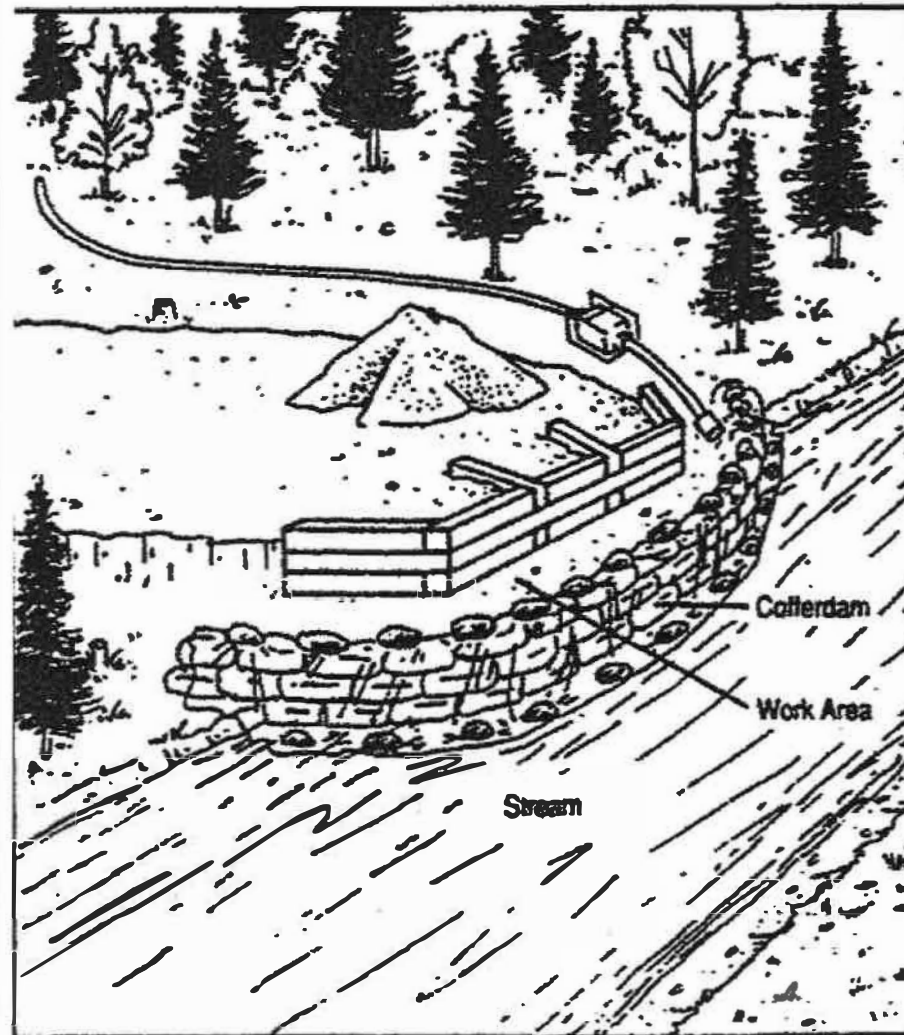
UP STREAM

DOWN STREAM

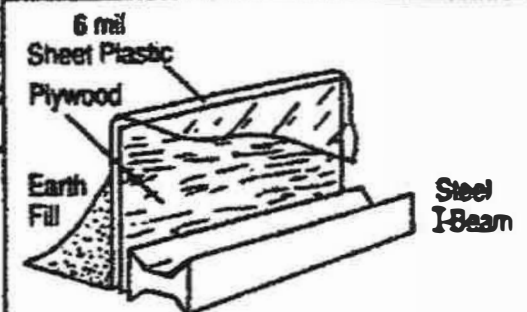
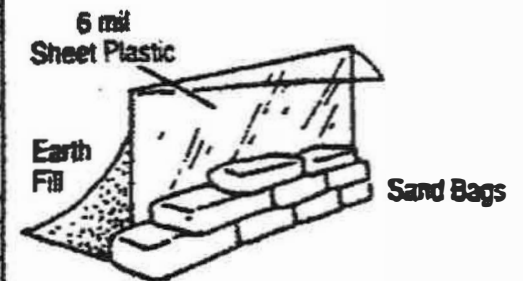
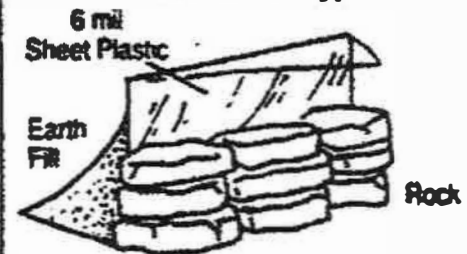


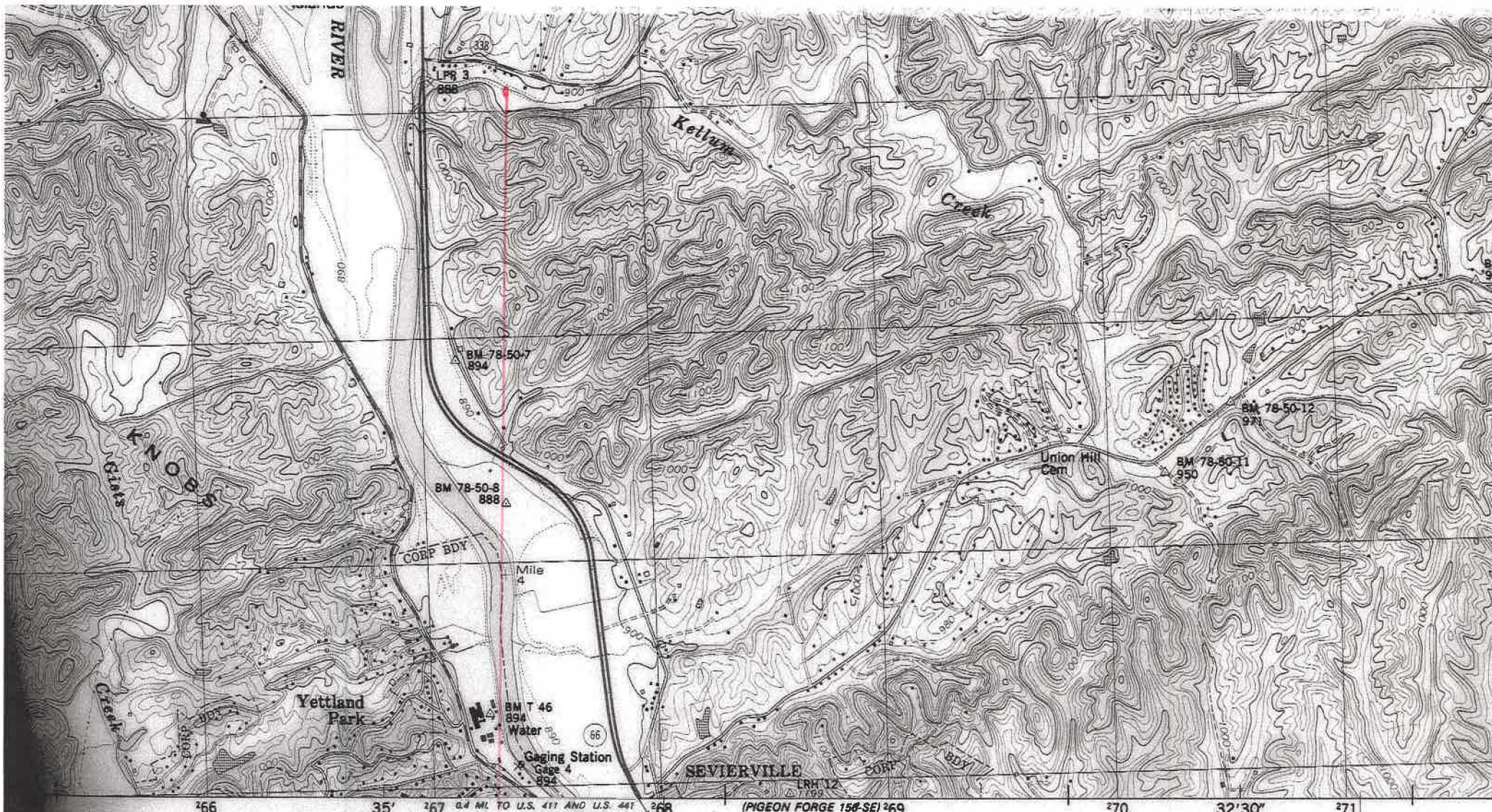
Notes

1. In stream work shall be conducted in the dry as much as possible.
2. Stream diversion shall be used where needed and may include installing a bypass channel or constructing a cofferdam.
3. Erosion and sediment controls shall be installed as required to prevent sediment movement into the stream.
4. Stabilization with permanent vegetation shall be accomplished after work is complete.

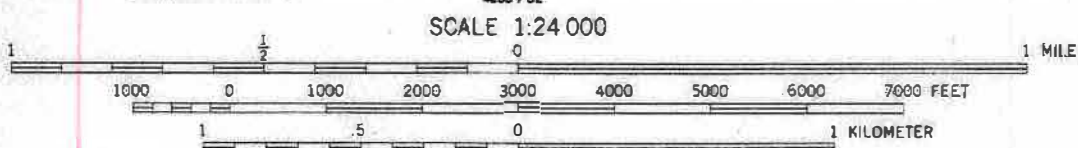


Cofferdam Types





MN
 GN
 3 1/2°
 62' MILS
 1°30'
 27' MILS



CONTOUR INTERVAL 20 FEET
 DASHED LINES REPRESENT HALF INTERVAL CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
 TENNESSEE DEPARTMENT OF CONSERVATION, DIVISION OF GEOLOGY, NASHVILLE, TENN. 37219
 AND U.S. TENNESSEE VALLEY AUTHORITY, CHATTANOOGA, TENN. 37401, OR KNOXVILLE, TENN. 37902
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

Revisions shown in purple
 the Tennessee Valley Auth
 taken 1983 and other so
 field checked. Map edited

1983 AND 1986 MAGNETIC NORTH
 INDICATION AT CENTER OF SHEET

Landholdings within the boundaries of
 the Tennessee Valley Authority are shown on this map