

WD 34 2003

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DOCUMENT DESCRIPTION:

Application for Permit
34-S-330

FROM:

IDAHO DEPARTMENT OF WATER RESOURCES
1341 FILLMORE ST, STE 200
TWIN FALLS ID 83301-3380

PHONE: 736-3033

FAX: 736-3037

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JOINT APPLICATION FOR PERMITS
U.S. ARMY CORPS OF ENGINEERS
IDAHO DEPARTMENT OF WATER RESOURCES
IDAHO DEPARTMENT OF LANDS

**DO NOT START WORK UNTIL YOU
RECEIVE PERMITS FROM BOTH THE
CORPS AND THE STATE.**

This application may be used to apply for both a Department of the Army permit from the U.S. Army Corps of Engineers (Corps) and for State of Idaho permits. Department of the Army permits are required by Section 10 of the Rivers and Harbors Act of 1899 for any structures or work in or affecting navigable waters of the United States and by Section 404 of the Clean Water Act for discharges of dredged or fill material into waters of the United States, including their adjacent wetlands. State permits are required under the State of Idaho, Stream Channel Protection Act (Title 42, Chapter 38, Idaho Code) and the Idaho Lake Protection Act, Section 58-142 et. seq., Idaho Code. Routine Uses: Information provided on this form will be used in evaluating the application. Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can permits be issued. Applicants should send this completed application, along with one set of good reproducible drawings showing the location and character of the proposed project, to both the Corps of Engineers and the State of Idaho. NOTE: DRAWINGS NO LARGER THAN 8-1/2 X 11 INCHES IN SIZE. The Applicant Information pamphlet provides instructions and a checklist for completing the drawings.

1 Corps of Engineers # _____ Date Received _____	2a Department of Water Resources # <u>34-S-330</u> Date Received _____ Fee Rec'd By: _____ Receipt # _____	2b Department of Lands # _____ Date Received <u>5-12-03</u> Fee Rec'd By: <u>LA</u> Receipt # <u>5025838</u>
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PLEASE TYPE OR PRINT

3 Applicant <u>Mr. Walter Stacklewin</u>	4 Authorized Agent <u>Intermountain Aquatics, Katie Salisbury</u>
Mailing Address <u>949 Rt 910</u> <u>Cheswick, PA 15024</u>	Mailing Address <u>P.O. Box 1115</u> <u>Driggs, ID 83422</u>
Area _____ Work Phone () _____ Home (412) <u>767-4240</u>	Area _____ Work Phone (208) <u>354-3690</u> Home () _____
Fax Number _____	Fax Number <u>(208) 247-0941</u>
Email Address _____	Email Address <u>Katie@IntermountainAquatics.com</u>
5 Location where proposed activity exists or will occur.	Tax Assessor's Description
Waterway <u>Wm Spring Cr.</u>	
<u>15 miles NW of Malheur, Idaho</u>	<u>NNW 1/4 35 8N 22E</u>
Distance/Direction from nearest city or town _____	1/4 1/4 Section Township Range
<u>83251 Custer County</u>	UTM Coordinate Grid
Zip Code _____ Local jurisdiction (city or county) _____	Zone Northing Easting

Directions to the site See Attached sheet #5

6 Describe Project (Work below the ordinary high water mark or in wetlands).

See Attached sheet #6

Construction methods and equipment. See Attached sheet #6

Length of project along the stream or extension into lake or reservoir. 0.5 miles of warm spring creek

COMPLETE THE FOLLOWING FOR DREDGED OR FILL MATERIAL	
Volume dredged or fill material to be placed waterward of ordinary high water mark (BOTH TEMPORARY AND PERMANENT)?	<u>310.76 yd³</u>
Will fill be placed in wetlands? <u>In warm Springs</u> (cubic yards)	
If yes, area: _____ (acres) Type of fill material: <u>Wetland Sed, Gravel & Woody debris</u> (i.e. sand, rock, clay, concrete, etc.)	
Will dredging be required waterward of the ordinary high water mark or in wetlands? <u>yes</u> If yes, volume <u>1483.26 (cubic yards)</u>	
Type of dredged material _____	
Disposal site for dredged material: <u>Upland areas on property</u> Method of dredging: <u>excavator - tracked</u>	
Method to control turbidity and sedimentation: <u>Downwater channel by diverting flows around project Area</u>	
Is project located in a mapped floodway? <u>NO</u> If yes, complete the Engineering "No-Rise" certification form.	

7. Purpose and intended use: Commercial Public ☒ Private Other Describe _____
Reason for project To Increase available habitat for all life stages of wild trout.
8. Proposed Starting Date July 1 2003 Estimated Duration one week
9. List portions of the project that are complete with month and year of completion
Label this work on your drawings. _____
10. Names, addresses, and telephone numbers of adjoining property owners, lessees, etc., whose property also adjoins the waterway
See Attached sheet

☐ Check here if the alteration is located on endowment lands administered by the Idaho Department of Lands

11. LEGAL OWNER IF OTHER THAN APPLICANT

Name _____ Phone _____ Work () _____
Mailing Address _____ Home () _____
City, State, Zip Code _____

12. List applications, approvals, or certifications from other Federal, state, or local agencies for work described in this application.

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval

13. Has any agency denied approval for the proposed activity? Yes No X (If "Yes" explain) _____

14. Other comments/information: _____

15. Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities. I hereby grant to the agencies to which this application is made, the right to come upon the above-described location to inspect the proposed or completed work.

Nathan Stoecklein Walter Stoecklein 4-16-03
Signature of Applicant (ORIGINAL SIGNATURE REQUIRED) Printed Name Date

16. If you wish to designate an authorized agent, complete item 4 and the following information

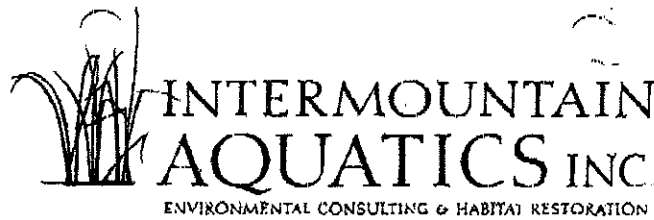
I hereby designate KATIE SALSBURY to act as my agent in matters related to this permit application. I understand that if a Federal permit is issued, I must sign the permit.

Katie Salsbury 4/14/03 Nathan Stoecklein 4-16-03
Original Signature of Authorized Agent Date Original Signature of Applicant Date

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than 5 years or both.

DO NOT SEND CORPS PROCESSING FEE WITH APPLICATION

SEND IDAHO DEPARTMENT OF WATER RESOURCES OR IDAHO DEPARTMENT OF LANDS FILING FEE WITH APPLICATION



Stoecklein Warm Springs Trout Habitat Restoration Project

3. Applicant: Mr. Walter Stoecklein
949 Rt. 910
Cheswick, PA 15024
Phone: 412-767-4240
4. Agent: Katie Salsbury
Intermountain Aquatics, Inc.
P.O. Box 1115
Driggs, ID 83422
Phone: 208-354-3690
Fax: 208-247-0941
5. Location: The project section is located along Warm Springs in the NW ¼ of Section 35, Township 8 N, Range 22 E, Custer County, Idaho. To access the project take Highway 93 north from Mackay, turn west on the Fish Hatchery Road and follow approximately 4.5 miles to the project location. The project consists of restoration and enhancement structures along approximately 0.5 miles of Warm Springs.
6. Existing Conditions:
Warm Springs is a small, low gradient spring creek that originates approximately ½ mile southeast of the proposed project. Warm Springs is a tributary to the Big Lost River and the Mackay Fish Hatchery lies at its headwaters. Flows range from 10 – 25 cubic feet per second and are influenced by steady groundwater flows, seasonal irrigation recharge and direct inputs. The project site is in stable condition, however, it has been directly impacted by historic land uses. The creek has stable banks but is limited by a lack of shrub and willow cover. Mr. Stoecklein is currently working with the NRCS under the CRP-Riparian Buffer program to restore a native shrub community to his section of the Warm Springs corridor. The instream habitat lacks diversity and is dominated by shallow riffles and runs. The substrates are embedded and currently provide no spawning habitat. Rainbow trout (*Oncorhynchus mykiss*), Yellowstone cutthroat (*Oncorhynchus clarki*) and brook trout (*Salvelinus fontinalis*) have consistently been observed in the project area in the few locations where sufficient depths provide resting areas and cover. No threatened, endangered or sensitive species have been observed in Warm Springs. Occasional sightings of kokanee are possible as they migrate from the Mackay Reservoir.



Project Description:

The goal of the Warm Springs project is to increase the available habitat for all of the lifestages of wild trout in the stream system including: spawning, juvenile rearing, adult holding and winter habitat. The project consists of the excavation of 31 pools (1483.26 yd³); the placement of 26 logs (104.21 yd³) in conjunction with the pools to provide cover and facilitate long-term scouring; the construction of 13 artificial spawning beds (146.85 yd³); and the placement of 35 pre-vegetated wetland mats (59.7 yd³) to decrease excessive channel widths and increase habitat diversity.

Total volume of dredged material (excavated silt) = 1483.26 yd³
Total volume of fill material (logs, spawning gravels, wetland sod) = 310.76 yd³

Construction Techniques:

The project will be constructed in July when the stream flows are at their lowest due to irrigation withdrawals. Constructing at this time is a successful way to complete stream work and have the components function during base flow conditions. A tracked excavator will be used to minimize impacts to the adjacent streamside vegetation and dump trucks will be run on higher/upland ground that is adjacent to the stream on both sides. Smaller wheeled dump trucks will be used to minimize impacts to upland vegetation. Any areas that are impacted in wetlands or uplands will be replanted with species native to the site.

The project will be constructed from the top to the bottom to protect our completed work. The majority of the stream flow will be diverted around the project using existing irrigation ditches to reduce turbidity inputs during construction. A small portion of flow will remain in each constructed reach to facilitate the accurate hydrologic placement of the structures.

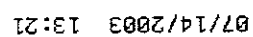
Pools will be constructed using an excavator and excavated material will be placed directly into a dump truck and hauled to uplands near the site. Drop logs will be placed at an invert level to the stream bed to prevent an increase in the bank full width. Spawning gravels comprising of 1-2" washed commercial gravel will be placed in excavated areas at appropriate gradients to insure the maintenance of clean gravels and the future utilization by trout. All tracks and impact areas will be raked and seeded with native grasses and forbs.



- 7. Purpose and intended use: PRIVATE
- 8. Proposed Starting Date: July 1st Estimated Duration: 1 week
- 10. Adjoining property owners:

Melvin Freeman & Eric Allen Trust
Timber Investments
7952 South Wilson Street
Midvale, UT 84047

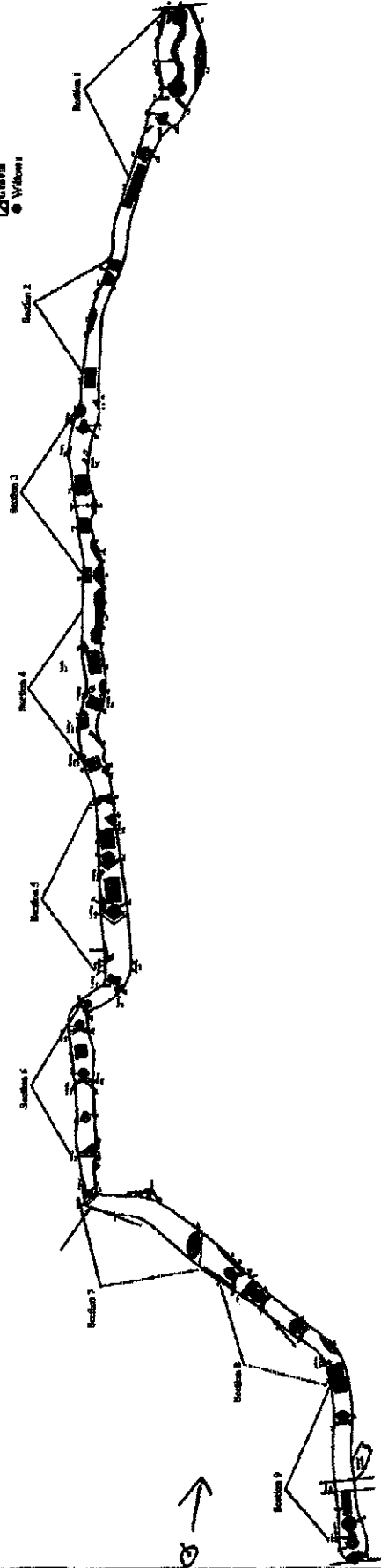
David Stoecklein
P.O. Box 856
Ketchum, ID 83440



1 inch = 200 ft

Tree Habitat Component Key

- ☒ Pools
- ☐ Solid Log and Wood
- ☐ Wood and Log
- ☐ Existing Vegetation
- ☐ Vegetation
- ☐ Gravel
- ☐ Willow



Stream Construction Volumes

Pools	1483.26 cu. yd.
Gravel	146.85 cu. yd.
Woody Debris	104.21 cu. yd.
Wetland Sod	59.70 cu. yd.

Project: Stoecklien Trout Habitat Restoration Plan
 Date: April 2003
 Designed by: Katie Salsbury
 Page 1



INTERMOUNTAIN AQUATICS INC.
 ENVIRONMENTAL CONSULTING & HABITAT RESTORATION
 P.O. Box 1113 - 85 South Main Street
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 www.intermountainaquatics.com

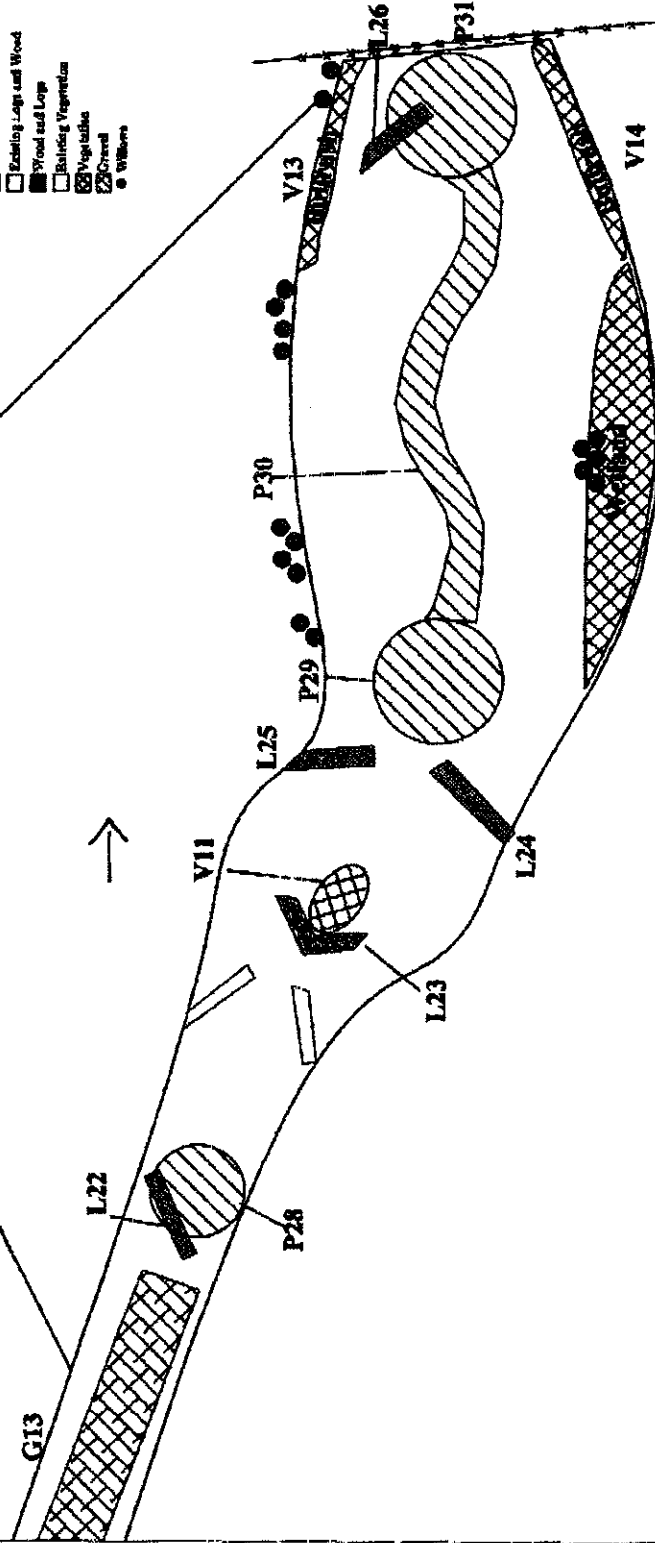
Section 1



1 inch = 40 ft.

Trout Habitat Component Key

- ☒ Rocks
- ☐ Existing Logs and Wood
- ☐ Wood and Logs
- ☐ Existing Vegetation
- ☐ Vegetables
- ☒ Grass
- ☐ Willows



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Project: Stoecklien Trout Habitat Restoration Plan

Date: April 2003

Designed by: Katie Salsbury

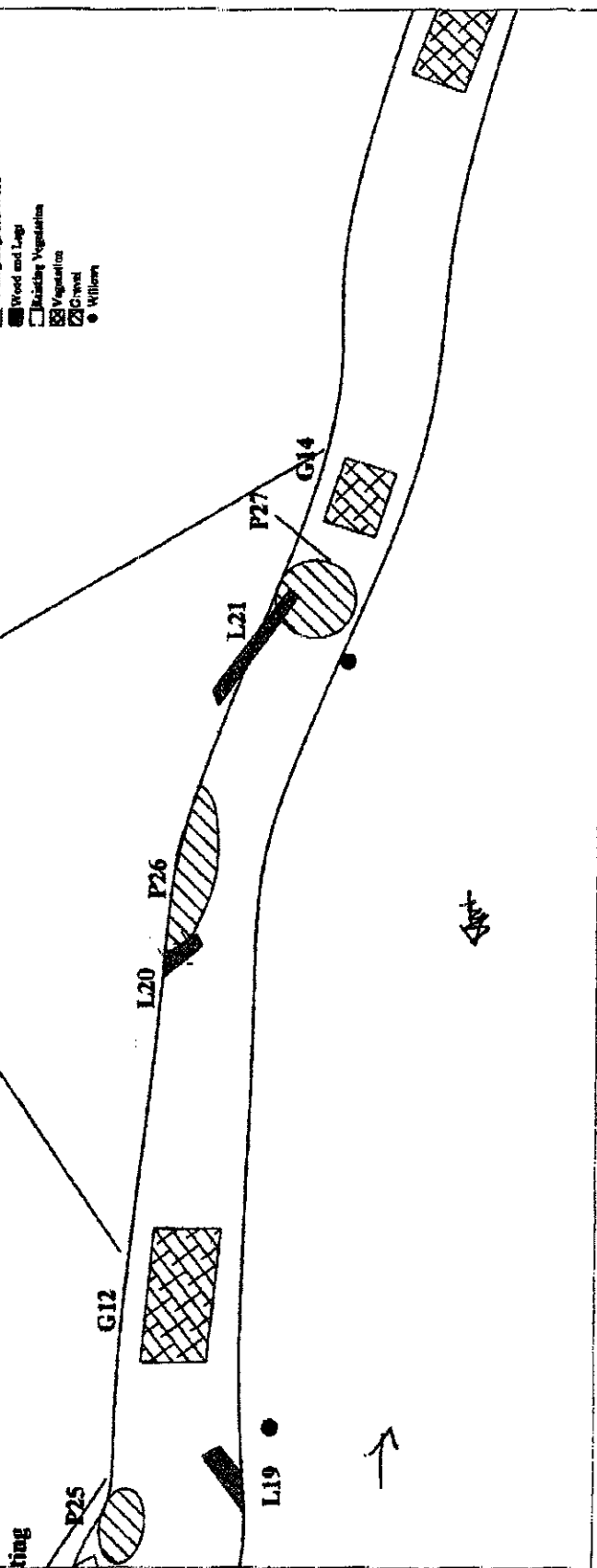
Page 2

Section 2

1 inch = 40 ft

Trout Habitat Component Key

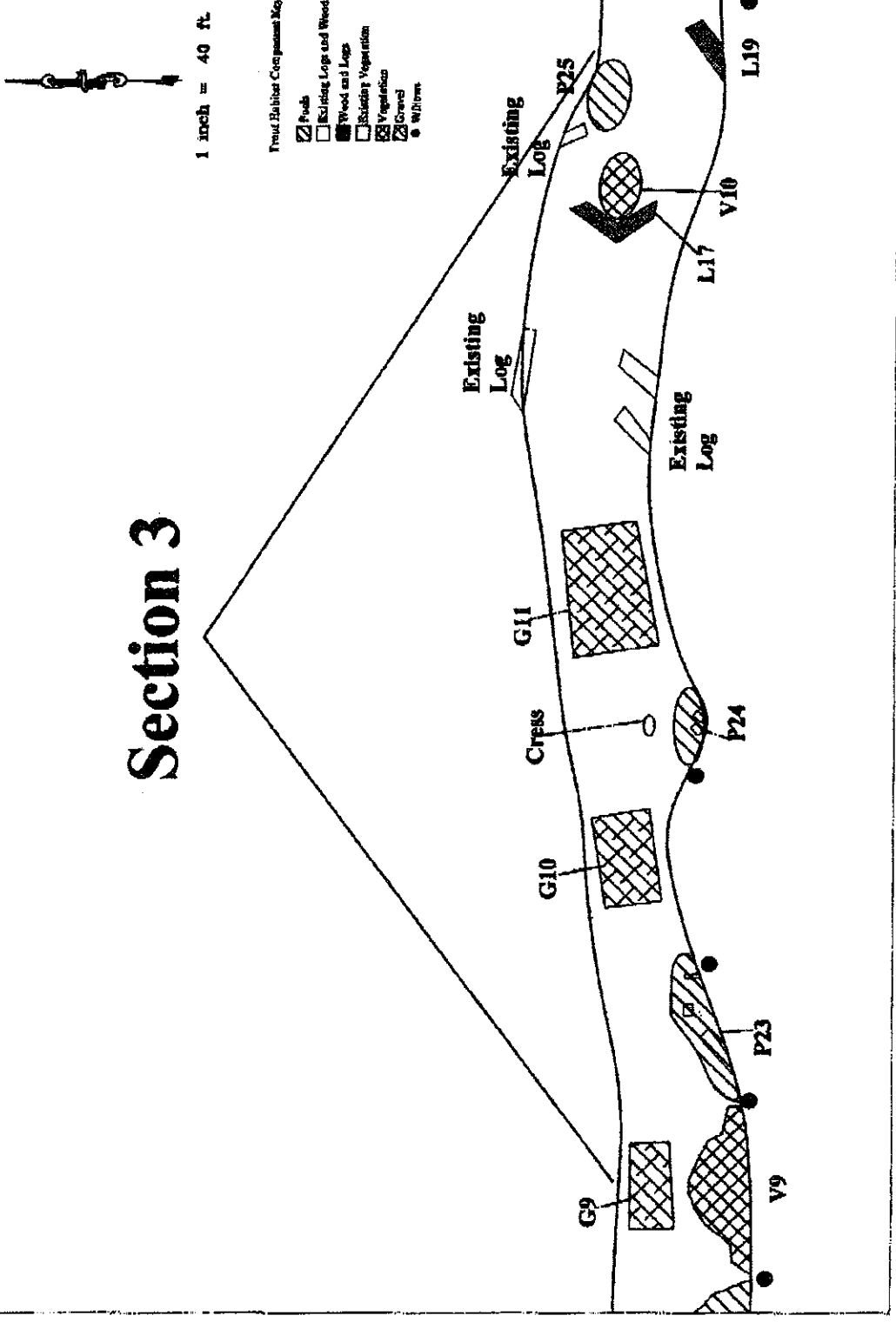
- ☒ Probe
- ☐ Building Logs and Weeds
- ☐ Wood and Logs
- ☐ Inland Vegetation
- ☒ Vegetation
- ☒ Creek
- ☒ Willow



Project: Stoecklen Trout Habitat Restoration Plan
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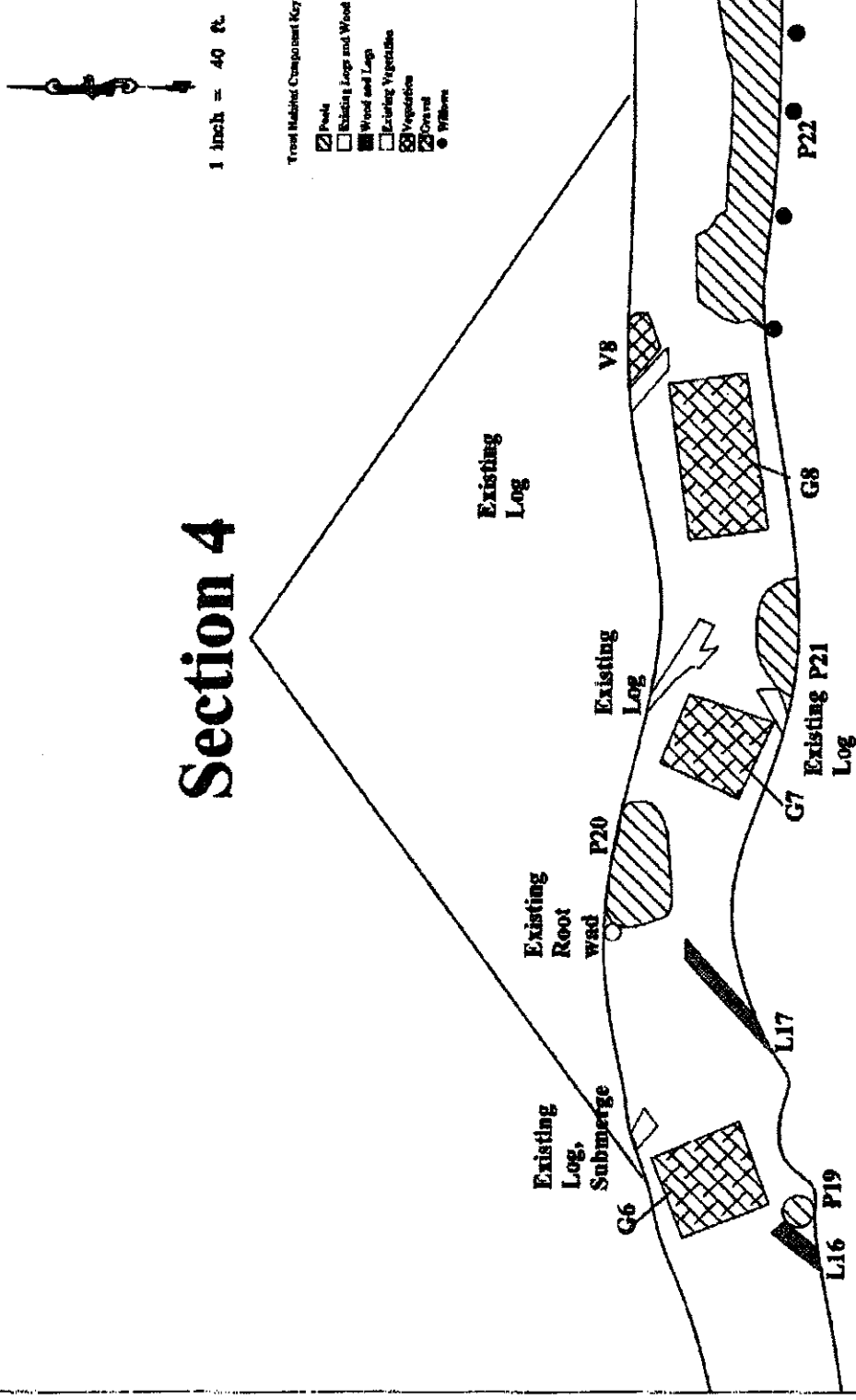
Section 3



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Date: April 2003
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Section 4



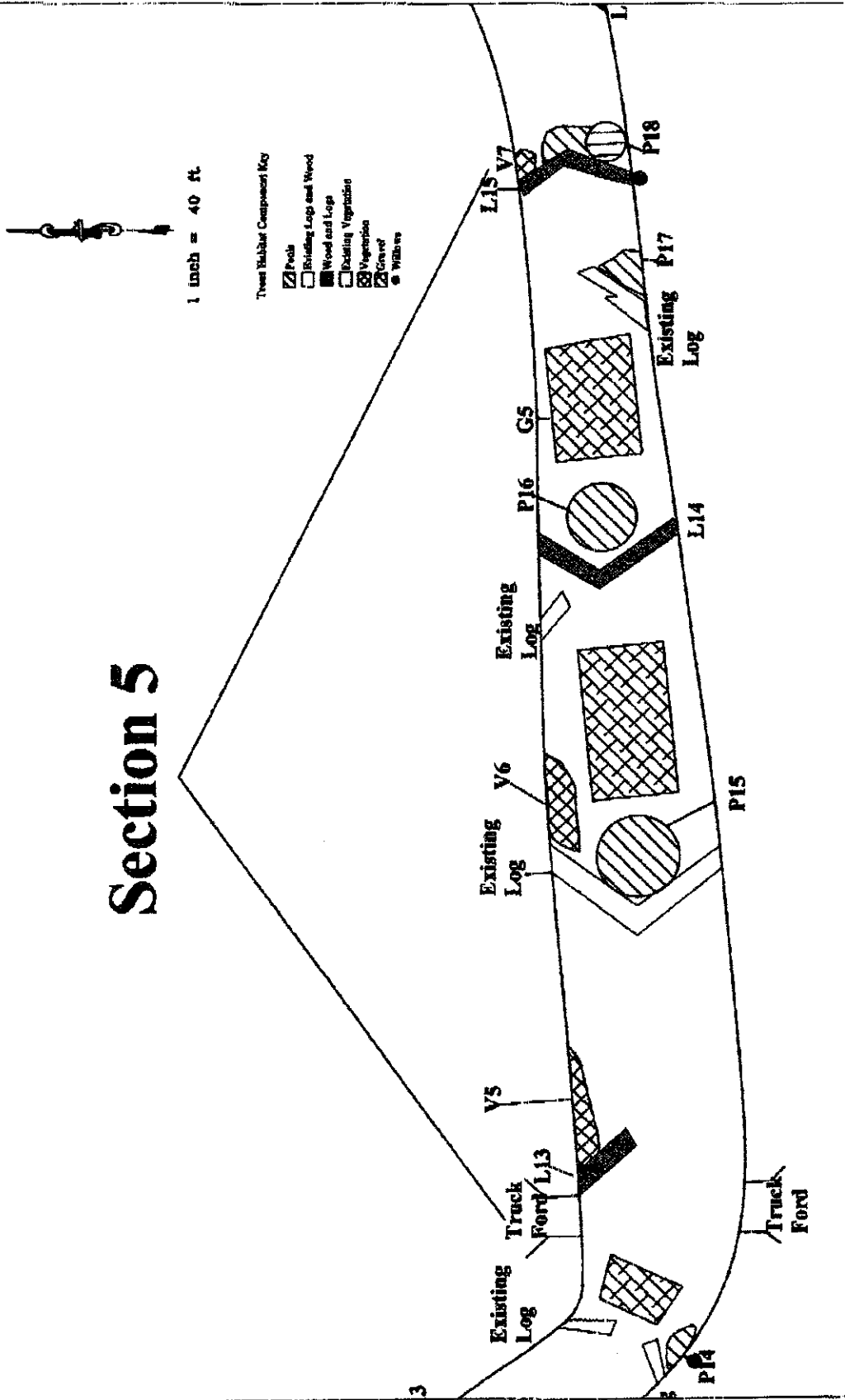
1 inch = 40 ft.

- Trout Habitat Component Key
- ☒ Pool
 - ☐ Existing Log and Wood
 - ☐ Wood and Log
 - ☐ Existing Vegetation
 - ☒ Vegetation
 - ☒ Gravel
 - ☒ Willow

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Project: Stockklien Trout Habitat Restoration Plan
Date: April 2003
Designed by: Katie Salisbury
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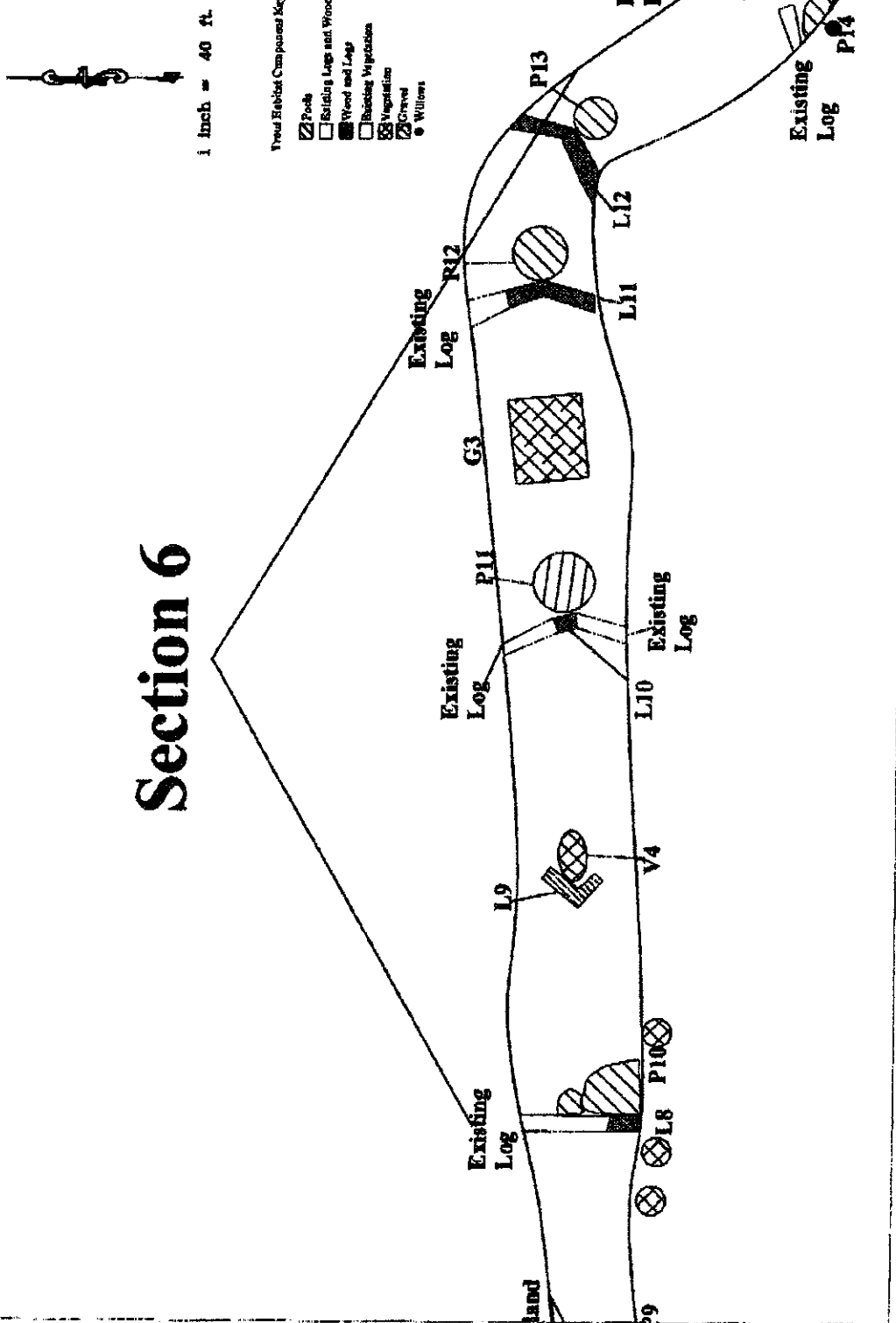
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Project: Stoecklien Trout Habitat Restoration Plan
 Date: April 2003
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Section 6



Project: Stoecklien Trout Habitat Restoration Plan

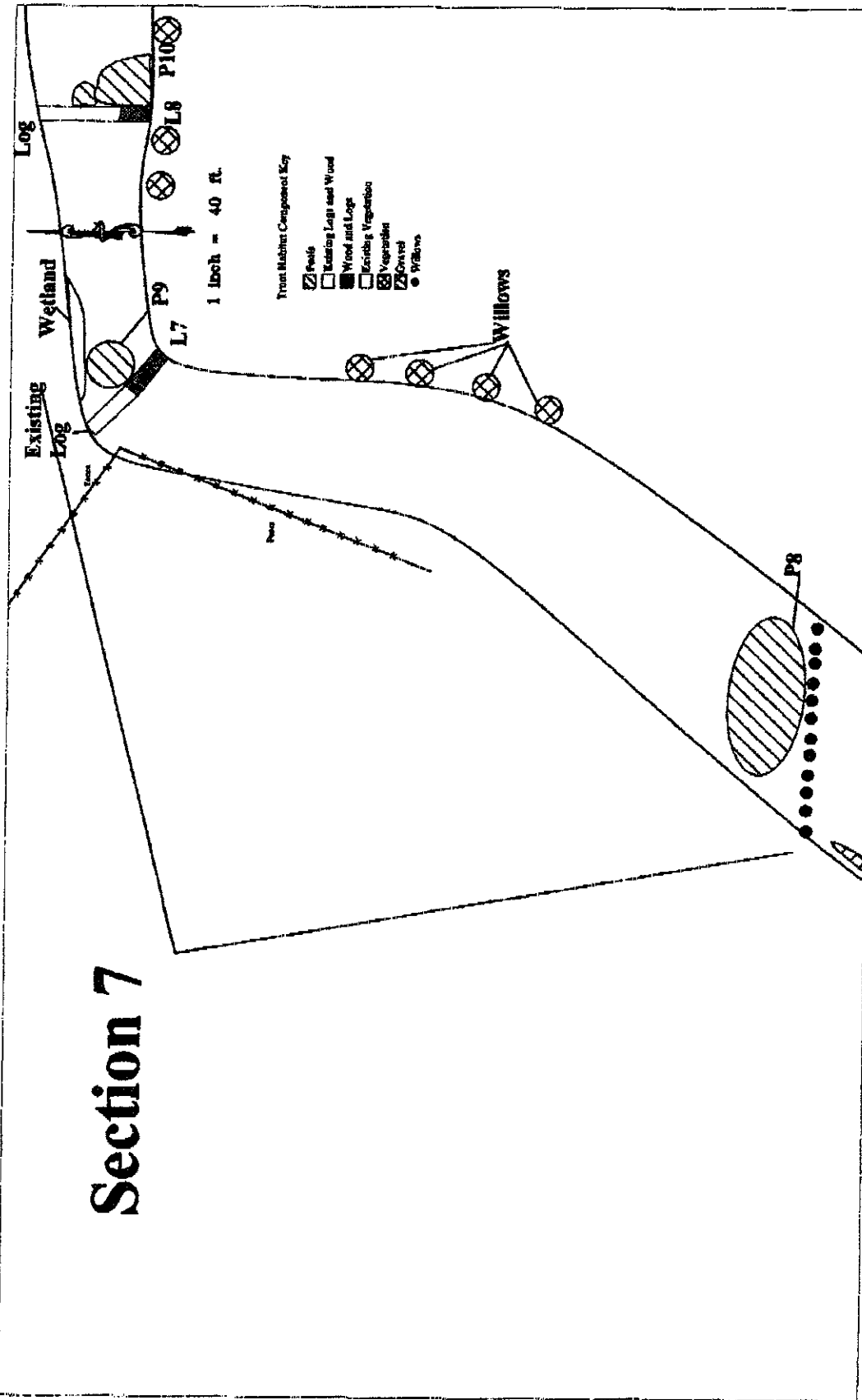
Date: April 2003

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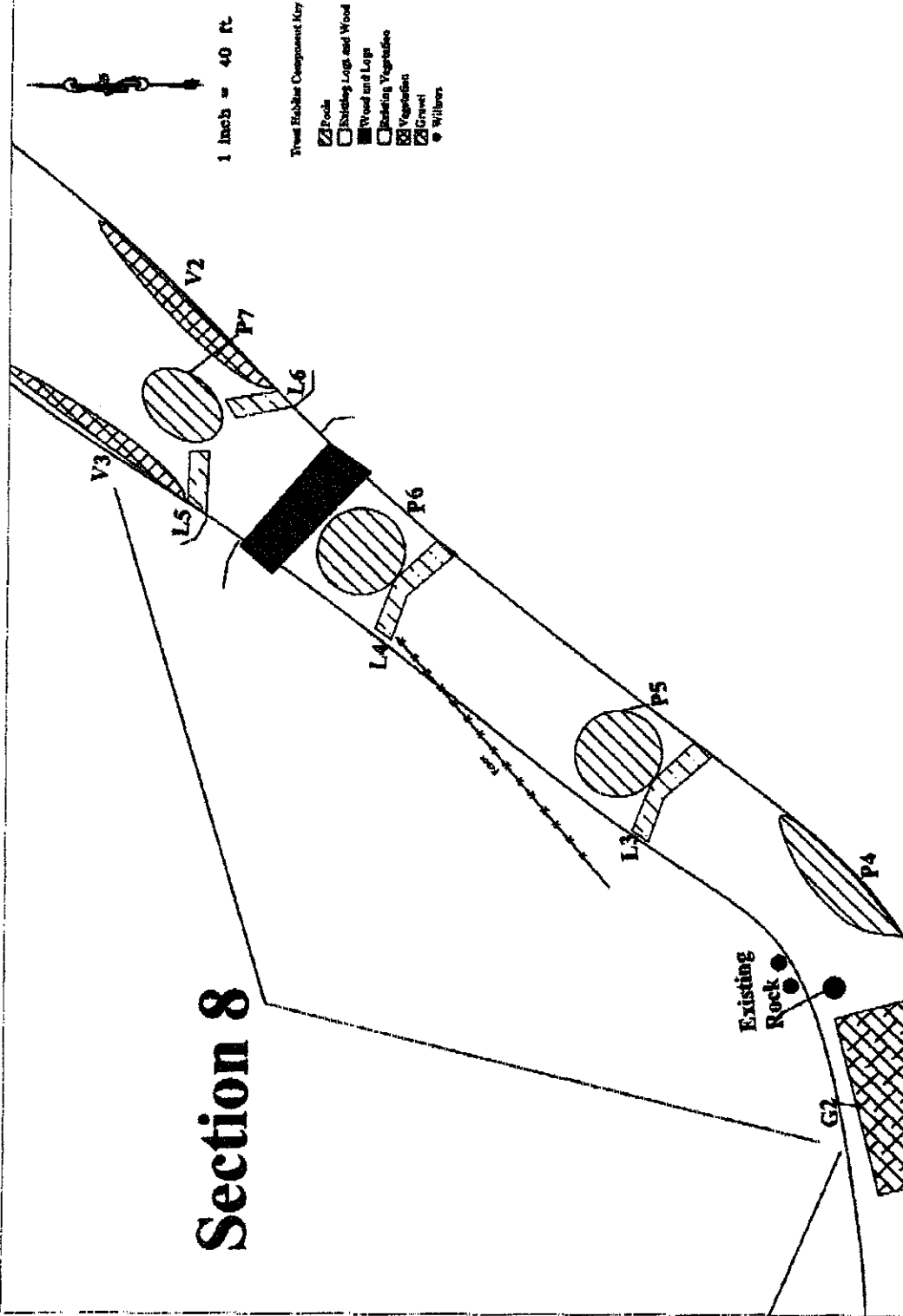
Section 7



Project: Stoecklien Trout Habitat Restoration Plan
 Date: April 2003
 Designed by: Katie Salisbury
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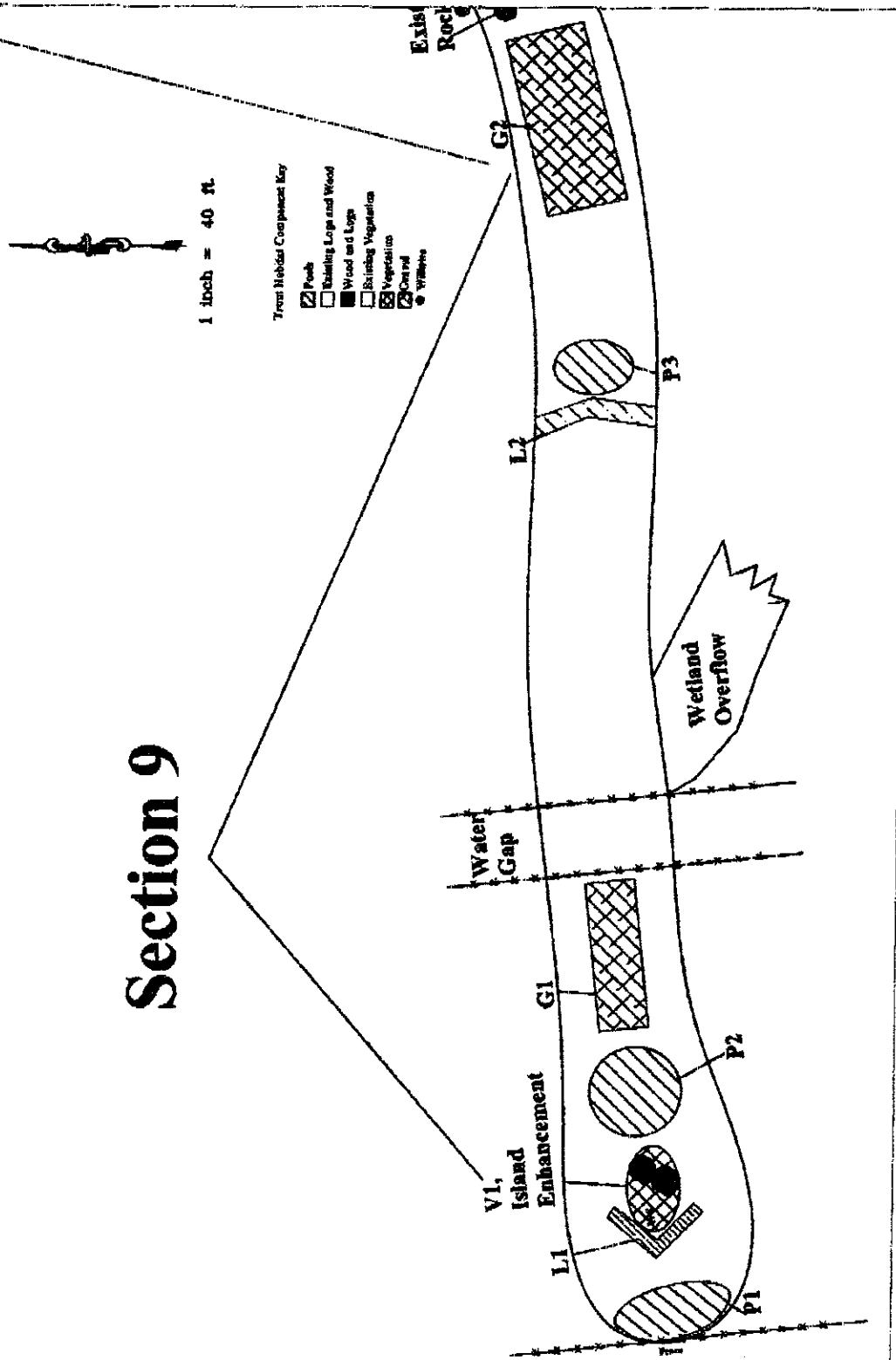
Section 8



Project: Stoecklien Trout Habitat Restoration Plan
 Date: April 2003
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Section 9



Project: Stoeckli Trout Habitat Restoration Plan
 Date: April 2003
 Designed by: Katie Salsbury
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 www.intermountainaquatics.com

Cross-Section IN-STREAM VEGETATION

FLOW DIRECTION
↓



EXISTING CREEK BED

WETLAND SOD
15' X 3'

SPECIES

Carex utriculata

Carex aquatilis

Scirpus acutus

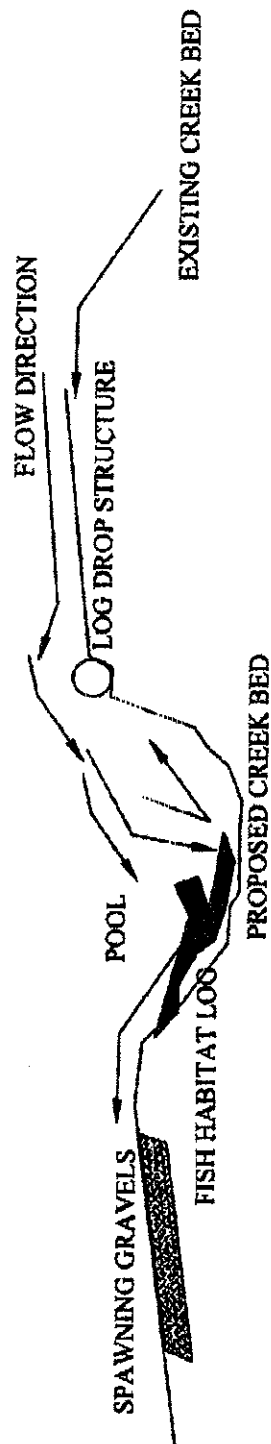
Project: Stoecklien Trout Habitat Restoration Plan

Date: April 2003

Designed by: Katie Salisbury

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Cross-Section Log Drop Structures and Pools



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Project: Stoecklien Trout Habitat Restoration Plan
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Cross-Section Spawning Gravels

FLOW DIRECTION
↓

WATERLINE

MIXED WASH
GRAVELS
1 Part 1" : 2 Part 2"

EXISTING CREEK BED

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Cross-Section Spawning Gravels

FLOW DIRECTION
↓

WATERLINE

MIXED WASH
GRAVELS
1 Part 1" : 2 Part 2"

EXISTING CREEK BED

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