

SITE NUMBER: H-0460 (H-R11)

LOCAL NAME: Pole Cr.

WRIA: 20.0460

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Hoh **DATE:** 8/20/87 **OBSERVER:** Young, Nettrin

CHANNEL TYPE: Wall Based

TRIBUTARY TO: Hoh River (20.0422)

SITE LOCATION: RB @ River Mile -24.6

LEGAL DESCRIPTION:

UPPER END **LOWER END**

DISSOLVED OXYGEN:

WATER TEMP.: (Channel is dry, therefore no D.O. or temp. data)

AIR TEMP.:

FLOW (CFS): Dry

SUBSTRATE TYPE: 3-4 ft layer of silt overlaying gravel.

SITE SIZE: **Length-** 470 m
 Width- 3-5 m
 Depth-

WATER SOURCE: Groundwater during high flows below the road crossing. Pole creek spillover above the road.

DIRECTIONS TO SITE: 8 miles east on the Upper Hoh Road. Turn at the first right after crossing Tower Creek. Dip in road is about mid-channel.

FISH ACCESS AND CURRENT USE: Access is good at higher flows. Fry have been observed in the spillover from Pole Creek but most of these fish are lost when flows drop.

FLOODING POTENTIAL: Moderate

LANDOWNER: Olympic National Forest

COMMENTS & RECOMMENDATIONS: Channel needs to be excavated down to groundwater. A perc. test should be done.

DATE: 12/3/87

OBSERVER:

Pond is still dry. Small amount of water running out of main channel. Looks like very poor entrance conditions except at pond outlet however there is a 3 ft falls on this outlet. USGS gauge at 6.75 ft.

DATE: 12/11/87

OBSERVER: Young

These observations were made just after the heavy rainfall of early December (more than 10 inches of rain from 12-1 to 12-10 at Forks, WA).

Pole Creek - There was a small amount of running water (max. depth 3 to 6 inches) in the swale to the west of the access road. Pooled water to a depth of three feet was seen in the swale to the east of the access road. The outlet channel of the shallow pond also carried running water. The water source for both channels was overflow from Pole Creek. Water ran across the access road 25 - 30 m south of the swale. The water then diverged, with part flowing into the swale and part flowing into the shallow pond.

The shallow pond held very little standing water. Deepening of the pond would appear to be extremely beneficial. Placing a culvert under the access road where it crosses the swale would also appear to be beneficial.

The following measurements were also made on this date:

Standpipe - Rim to water surface = 1.78 ft
Water Temperature = 44 F
Air Temperature = 38 F

TBMR-3 - TBM to water surface = 5.75 ft
River Temperature = 45 F

DATE: 12/22/87

OBSERVER: Young

It has been mostly dry since the last observations were made at this site on 12-11-87 (see above). Flows were down significantly.

Pole Creek - No standing or running water was present in the swale, in the outlet from the shallow pond area, or in the shallow pond.

The following measurements were also made on this date:

Standpipe - Rim to water surface = 4.82 ft
TBMR-1 - TBM to water surface = 8.92 ft
TBMR-2 - TBM to water surface = 9.22 ft
TBMR-3 - TBM to water surface = 7.28 ft
TBMR-4 - TBM to water surface = 9.32 ft

DATE: Summer "88"

OBSERVER: King, Young, Nettnin

Prior to project construction, Pole Cr. would spread out on the Hoh River floodplain during freshets. When the water receded, many coho fry would become stranded and die. Four hundred meters of channel was excavated along a wall based depression that may have once been the main channel. The alluvial fan area was excavated deeper to serve as a bedload sump. This sump has been excavated twice since the project. There was a culvert under the access road but due to plugging and other problems it was removed and a ford reestablished.

DATE: 8/24/92 - 8/25/92

OBSERVER: Nettnin

Rock constrictors were added to this channel above the access road and the old constrictors below the access road were repaired. Also there were two logs laid across the channel to help create pools by under scouring. The rock that was used for this project was left over from previous work but needed to be broken down so it could be handled by hand.

Crew days: 1.4 (crew days based on a 10 man crew working 8 hrs/day).

DATE: 1/26/93

OBSERVER: Nettnin

Observed the channel after Inauguration Day storm. All of the constrictors and logs had created some habitat. Some structures worked better than others, due to shifting of some of the building rocks.

DATE: Summer of 1994

OBSERVER: Nettnin, King

During the summer of 1994 the USFS installed about 17 structures in this channel. The structures entail straight log controls, vee log controls, rock controls, logs over the creek, logs from the bank into the creek and logs just above the stream bed to allow undercutting.

DATE: 9/16/94

OBSERVER: Powell

Two inches of rainfall in the past few days watered lower end of channel (previously dry). Fry were observed.

DATE: 10/5/94

OBSERVER: Powell/Darrow

Channel, below (~65 m) alleuvial fan, is dry. USFS put minimal amounts of debris in this area of the channel - mostly logs.

DATE: 10/20/94

OBSERVER: Powell

2.5" rain in 33 hrs. USFS employee watched the lower end of channel go from wetted to a moderate high flow in a half hour! USFS employee said fry that were in lower channel in Sept were electroshocked and move to an upper stretch - before the lower channel became perilous - and the channel was netted off to prevent a downward movement of the fry.

DATE: 10/27/94

OBSERVER: King

Good flow. USFS habitat structures are all holding. It is unclear how some of the structures are supposed to function. A large cedar tree has fallen across the mouth but is not blocking passage at present. Juveniles were seen at the mouth.

DATE: 3/27/95

OBSERVER: Darrow

USFS is trapping downstream migrants (with our help). There was minor blow throughs on some log controls that were put in place last fall. Coho and trout fry are being trapped in migrant box. Also, observed surface feeding in pooled areas.

DATE: 11/16/95

OBSERVER: Powell

An abundant flow. There were chinooks constructing redds below the road crossing. The large cedar tree at the mouth has caught some additional debris but is not a problem at the present time. The last log control (closest to the mouth) has blown out underneath. USFS is not trapping the site for upstream migration. They have left filled sand bags on location.

DATE: 4/17/96

OBSERVER: Darrow

The Hoh tribe is trapping this site for DS emigrants for the USFS. This site was part of the coho & chinook spawner index this past fall - 27 redd flags were counted. A few of the rock weirs have shifted, and at least three logs have floated down to mouth and are caught with the additional debris there. Pools that were dug in the lower channel have filled in with fines. Fry and trout were observed along system, and a couple of smolts were seen above trap.

DATE: 10/24/96

OBSERVER: Powell

Upper and lower log controls are blown out underneath. All other structures looked okay. The debris jam at the mouth appears larger but passable. There was a strong flow on this date.

DATE: 5/10/97

OBSERVER: Darrow

River has widened by ~175-200 feet near system's egress. There were no blockages encountered. Observed large and newly hatched fry throughout the system, and few smolt sized fish near egress.

DATE: 10/22/97

OBSERVER: Powell/Darrow

All but one of the single log controls (span the width of channel) have blown out underneath. The "V" control is still functioning. Forest Service still has not picked up trapping materials - sandbags, rebar, ect. Numerous 0+ salmonids were observed throughout the system.

DATE: 11/4/98

OBSERVER: Darrow

Project looks good - old trap material has been removed. Forest Service added a new control log and boulder anchor above old one (that is just barely showing through substrate now) 6-7 meters upstream of former trap site. Controls and rockery all in place and stable. Storm windfall above river confluence has settled somewhat and is still providing cover. Observed one trout just below road crossing and several small salmonids above windfall pile.

DATE: 4/27/99

OBSERVER: Darrow

Some new windfall landed in the upper channel. The upper most log control has water eroding around the bank; could probably use some armoring. Observed numerous fry throughout the channel. Also, other salmonids (trout and presmolts) were seen.

DATE: 10/16/99

OBSERVER: Darrow

Flow is down and goes subsurface upstream and downstream of the ford. There was evidence that the full channel was flowing recent to this date. Thirty to forty salmonid juveniles and about 14 cottids were observed dead in a plunge pool that had recently gone dry (downstream of the ford). Numerous salmonids were observed where the surface flow was still adequate, about 130 meters upstream of crossing.

DATE: 4/9/00

OBSERVER: Darrow

Nothing has changed at this site. Lower end could use some additional cover. Numerous smolts and fry were observed.

DATE: 10/25/00

OBSERVER: Darrow

Little has changed. Beds and pockets that were initially dug have mostly filled in with fines. And wood debris has either floated away or has been buried. Trouble spot remains below the V log control that is downstream of the road crossing. This deep plunge pool needs to be examined and corrected due to mortality that was observed last season. Numerous salmonids were observed.

DATE: 2/28/01

OBSERVER: Darrow

Little has changed since the fall check. Could use some additional instream cover. Observed a few salmonids.

DATE: 10/6/01

OBSERVER: Darrow

Nothing has changed other than brush growth along channel is becoming dense.

DATE: 3/26/02

OBSERVER: Darrow

Fine gravel and silt continue to migrate downstream. The road crossing to 20 m upstream of the egress is now just a flat run. It is not an attractive area for fish. Vehicle crossings disturb the fine sediment and send sediment plumes downstream. Observed a few salmonids. Did not see any fry yet.

DATE: 11/13/02

OBSERVER: Powell

Nothing has changed. The channel could use more woody debris.

GPS: (decimal degrees, Datum WGS84):

upper project - N47.81227, W124.10736

egress - N47.81471, W124.11001

DATE: 5/21/03

OBSERVER: Powell

Nothing has changed. Fry are abundant. Stream side vegetation is thick.

DATE: 10/23/03

OBSERVER: Nettnin

Looks good. Chinook were spawning.

DATE: 1-13-88 STREAM NUMBER: 20.0460 STREAM NAME: Pole Creek SITE: H-R11

TRIBUTARY TO: Hoh River OBSERVER: King

ENTERING IN: River mile 24.7 on the right bank.

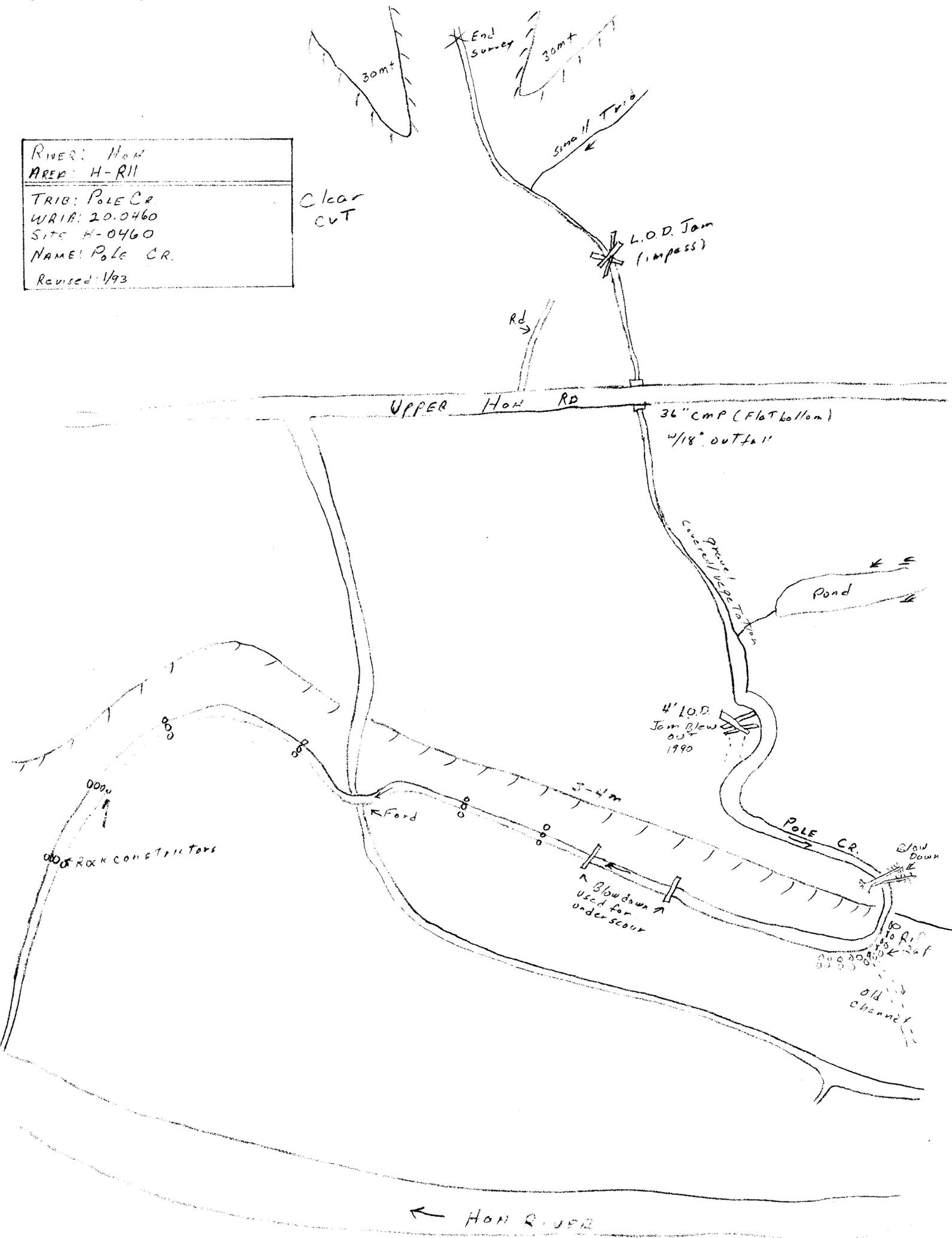
SECTION OF STREAM SURVEYED: Mouth to stream mile 0.5.

	LOWER	MIDDLE	UPPER
ESTIMATED FLOW:-----	1 cfs	3/4 cfs	1/2 cfs
AVG. CHANNEL WIDTH AT SURVEY TIME:--	3 ft	30 ft	10 ft
AVG. DEPTH AT SURVEY TIME:-----	6"	4"	3"
POOL:RIFLE:RAPID RATIO:-----	5:95:0	5:95:0	0:99:1
BOTTOM COMPOSITION:-----	0:0:30:70	0:5:85:10	10:70:15:5
	(BOULDER:COBBLE:GRAVEL:SAND)		
GRADIENT:-----	Gentle	Gentle-mod.	Mod.-Steep
CANOPY COMPOSITION:-----	Alder Conifer	Alder Conifer	Ald/conif. Shrubs
INSTREAM COVER:-----	Little	L.O.D.	L.O.D.
LAND USE:-----	Recreation	Timber	
OTHER WATER USES:-----	None		
SPAWNING AREA QUALITY:-----	Poor	Good	Fair
REARING AREA QUALITY:-----	Poor	Fair	Fair
JUVENILE ABUNDANCE:-----	Few trout Coho & trout Few trout		
ADULT COUNTS:-----	None		
LIMITING FACTORS:-----	Low summer flows, Impassable L.O.D. jam in middle section (Removed in 1988).		

GENERAL COMMENTS AND RECOMMENDATIONS: An off-channel pond exists on the left bank at stream mile 0.3. It is approx. 100 meters long by 50 meters wide. Depth is unknown, but appears to be less than 4 ft deep. Flow is approx. cfs. Spring water emerges from the very upper end. This pond is well protected from the river.

RIVER: HOH
 AREA: H-R11
 TRIB: POLE CR.
 WRIA: 20.0460
 SITE: H-0460
 NAME: POLE CR.
 Revised: 1/93

Clear cut



Pole CK. 20.0460



clear cut

End Survey

Ridge

(Small Trib.)

L.O.D. Jam (Impass)

Abandoned log pond

upper Hoh R. Rd.

36" cnp (flat bottom) w/18" outfall

Sedge swamp

Pond (loaded with L.O.D.)

Gravel deposit (covered w/ vegetation)

Bed load buildup

4' debris jam

Toe is 30' wide

Blowdown

(10+ 2nd Terrace)

Wall base swale

creek overflow channel

Access Road

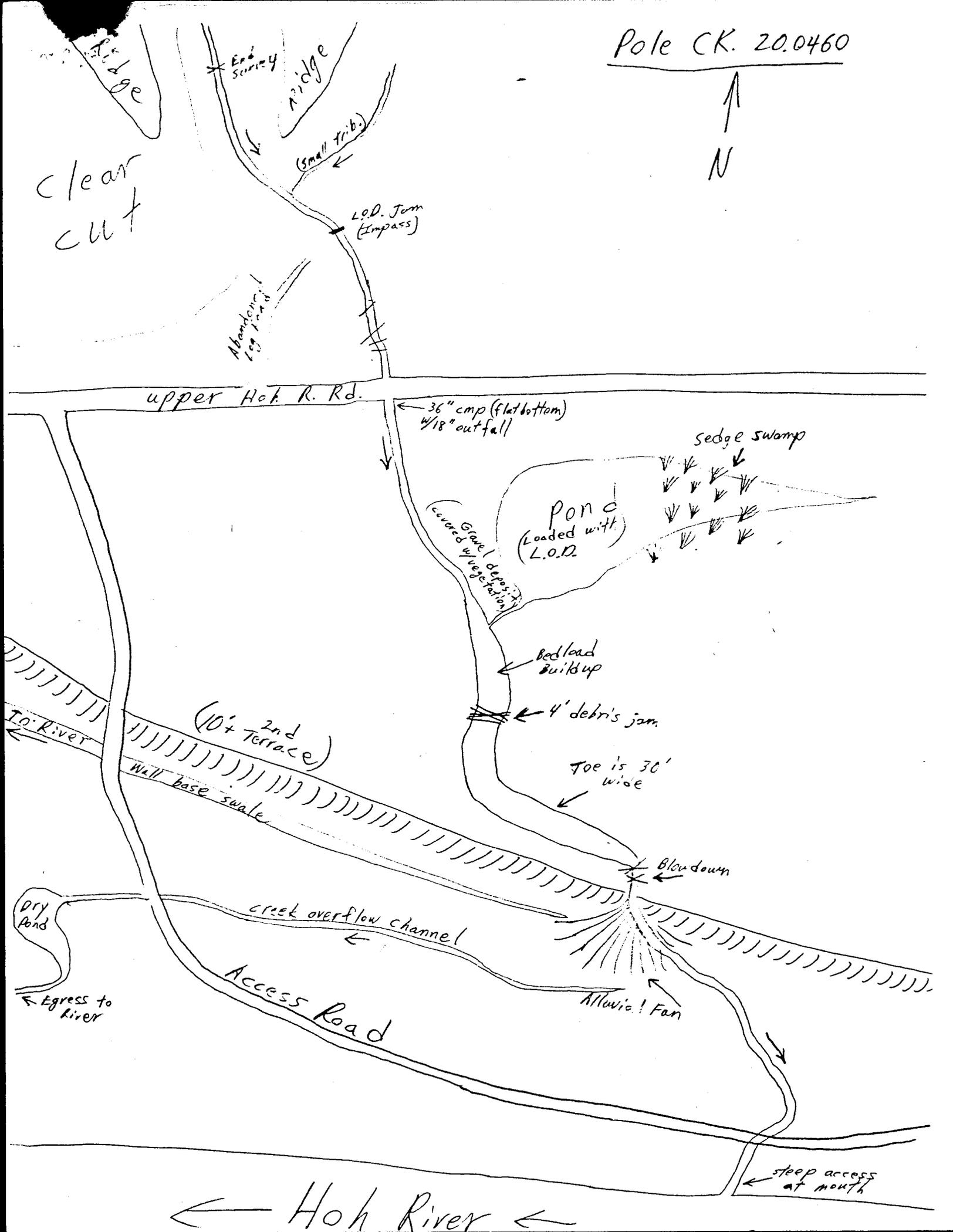
Alluvial Fan

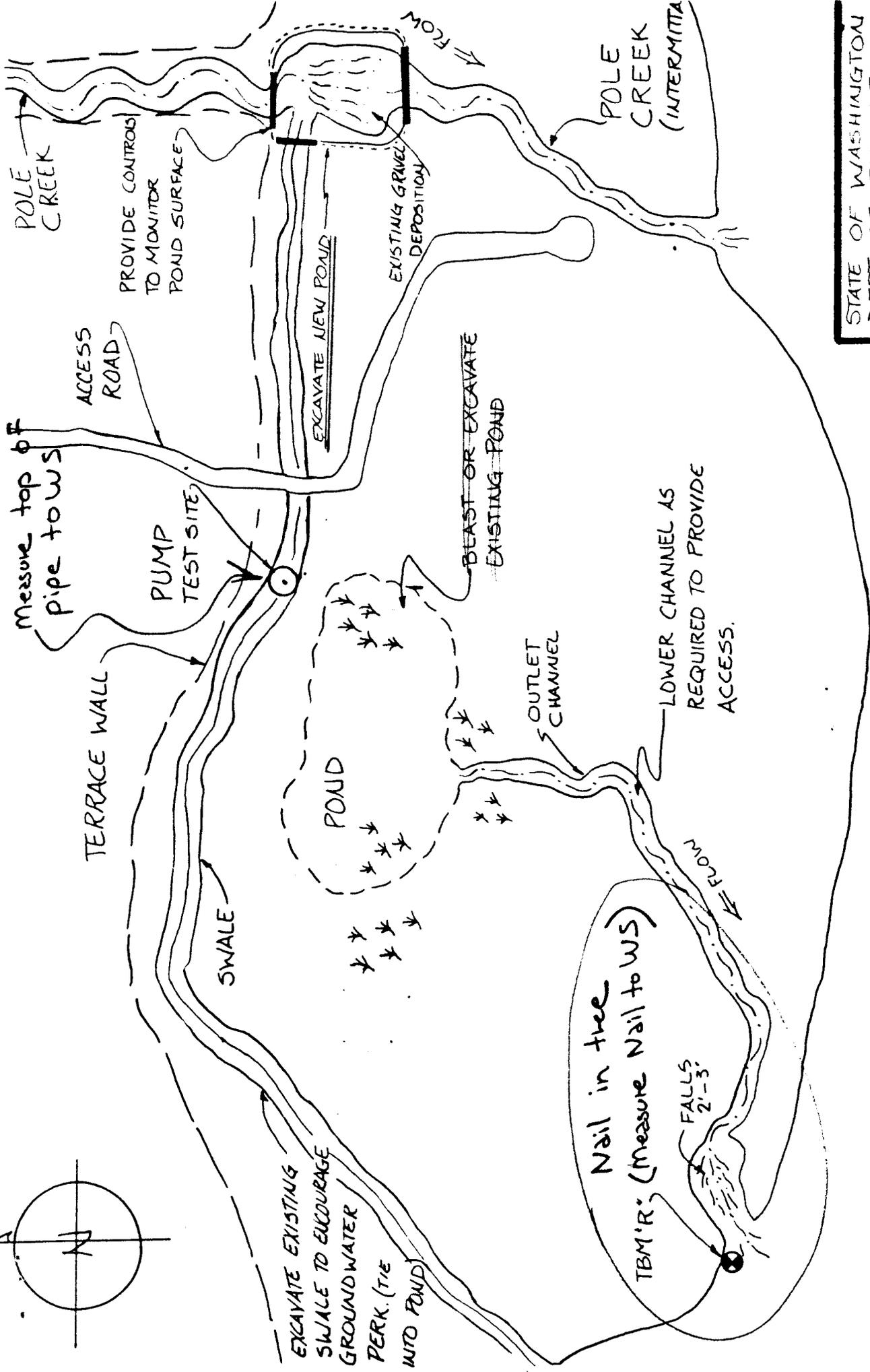
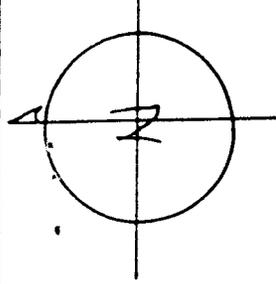
Dry Pond

Egress to river

steep access at mouth

Hoh River





STATE OF WASHINGTON
 DEPT. OF FISHERIES

POLE CREEK
 PLAN
 VIEW SKETCH

DATE: 11/09/87 DRAWN BY: J
 NO. SCALE

HOH RIVER
 RM. 25.2



Nail in tree
 TBM'R: (Measure Nail to WS)

FALLS
 2'-3'

TERRACE WALL

SWALE

POND

BEAST OR EXCAVATE
 EXISTING POND

OUTLET
 CHANNEL

LOWER CHANNEL AS
 REQUIRED TO PROVIDE
 ACCESS.

EXCAVATE NEW POND

EXISTING GRAVEL
 DEPOSITION

POLE
 CREEK
 (INTERMITTA)

PROVIDE CONTROLS
 TO MONITOR
 POND SURFACE

ACCESS
 ROAD

Measure top of
 pipe to WS

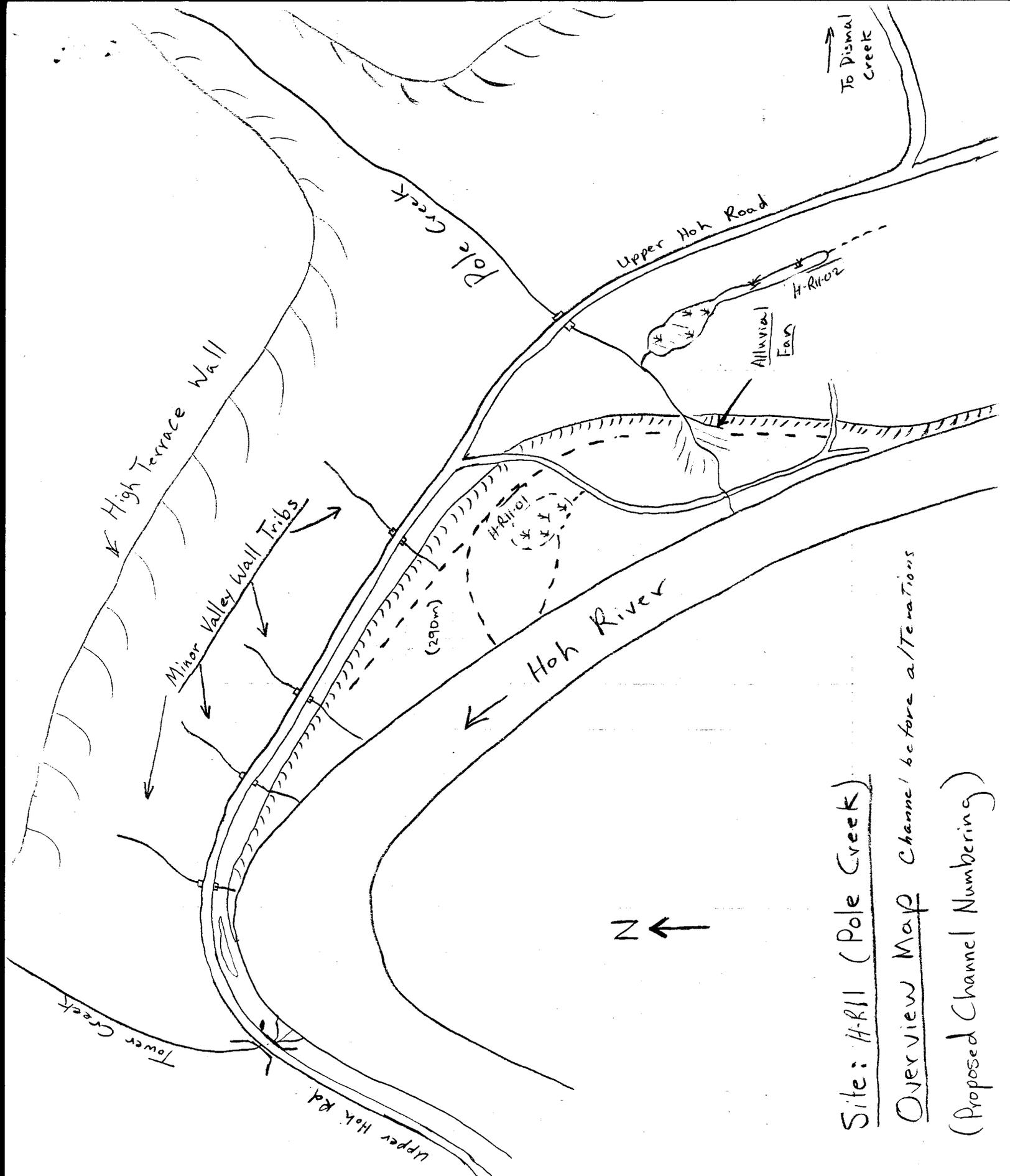
PUMP
 TEST SITE

EXCAVATE EXISTING
 SWALE TO ENCOURAGE
 GROUND WATER
 PERK. (TIE
 INTO POND)

POLE
 CREEK

← FLOW

← FLOW



Site: H-R11 (Pole Creek)

Overview Map Channel before alterations

(Proposed Channel Numbering)

