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SCOTT RIVER RIPARIAN ZONE
INVENTORY AND EVALUATION

By

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Consultant

For

SISKIYOU
RESOURCE CONSERVATION
DISTRICT

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SCOTT RIVER RIPARIAN ZONE INVENTORY AND EVALUATION

by

ALVIN G. LEWIS, Consultant

for the

SISKIYOU RESOURCE CONSERVATION DISTRICT
ETNA, CALIFORNIA

ABSTRACT

The factual materials contained in this report are from data collected by actual measurement and observation along the banks of Scott River during August - September 1991.

The scope of the work included the inventory and evaluation of the riparian system on 29.70 miles on the left bank and 29.57 miles on the right bank. The observed areas include the following needs:

1. Livestock exclusion (with fenced drinking access)
2. Fencing - new construction, maintenance, or rebuild
3. Planting and irrigating to establish riparian vegetation
4. Flood irrigation water filter control
5. Streambank protection with large rock
6. Off-stream livestock watering (well and tank)
7. Fire protection.

There were 373 identified sites with 182 on the left bank and 191 on the right bank. Different site determinations included the following criteria:

1. fenced or not fenced
2. livestock access
3. livestock exclusion
4. bank protection with large rock or not protected
5. dominant species age
6. change in crown density species or percentage of crown density,
7. percentage or diversity of understory cover
8. property ownership boundary.

Also, determination of bank swallow habitat on two sites (#126 and #166) and understory "species of concern" on 26 sites was done. With the available data and proposed prescriptions for restoration and maintenance of the riparian system, the landowners were contacted. The information was reviewed and each landowner and/or agent was asked to rate their willingness to perform the practices recommended.

INTRODUCTION

- Objectives:
1. Inventory the riparian habitat conditions along the Scott River to aid in restoration project selection.
 2. Prioritize and prescribe habitat improvements based upon site potential.
 3. Provide information to local landowners along the Scott River that associates riparian protection and restoration techniques with their farming and ranching activities.

This assessment was requested by the Siskiyou Resource Conservation District through the Klamath River Basin Fishery Resources Restoration Act of 1986. The Klamath Act-Public Law 99-552 establishes the Klamath River Basin Conservation Area Restoration Program, a 20 year fishery restoration program in the Klamath River Basin.

Riparian growth on the Scott River banks provides habitat for food organisms, cover, and shade for fish. Additional benefits include bank erosion control, system for filtering debris during high flood flows, filter for tail-water from flood irrigation systems, habitat and cover for wildlife, and aesthetics.

Observed areas needing attention are: livestock exclusion (with fenced drinking access); fencing; riparian planting and irrigation; flood irrigation filter control; stream-bank protection with large rock; off-stream livestock watering (well and tank); and fire protection.

Corrective action needs a "common sense" approach with the landowners in order to assure a satisfactory solution tailored to each site.

The assessment of the riparian system was completed in August and September of 1991. The major length of the river had minimum or no flow. Continued drought will adversely affect the present riparian growth.

A high "willingness" rating on the part of the landowner in February of 1992 may not continue for ensuing years if conditions change due to economics, floods, etc..

Many of the landowners have been conscientious regarding improving conditions along the river, and indications are that there can be continued cooperation in problem-solving without need of outside intervention.

Access needed to these sites for review or corrective action should be with the knowledge and permission of the landowners.

HISTORY

The establishment of the riparian system on the Scott River has had and continues to have positive and negative impacts. During the 1950's, oyster shell scale destroyed most of the willow growth. The December 1955 flood accelerated the bank erosion. This flood helped to prove to the landowners and technical personnel that tree and cable, piling-wire revetment and vegetative protected banks were not the answer to stabilization of river banks. The high flows that continued into 1958 eroded banks and continued to destroy vegetative plantings. That year a portion of river bank was stabilized with large rock.

In 1958, the Soil Conservation Service (SCS) contracted for a low level aerial flight of Scott River. This flight was used for planning and application of streambank protection projects. It is also used as reference on many of the field sheets described in the methods section of this report. This flight indicated many reaches of eroding river banks where little or no riparian vegetation is visible. SCS personnel provided private landowners with technical assistance for planning and application. The Agricultural Conservation Program (ACP) administered by the Agricultural Stabilization and Conservation Service (ASCS) cost shared with the landowner to protect eroding river banks with large rock. The directors of the Siskiyou Resource Conservation District (RCD) assisted the local landowners by providing equipment to haul and place the rock. In the late 1960's and since private industry has had equipment available to deliver and place the rock. Over the years SCS has worked with personnel from the California Department of Fish and Game, Army Corp of Engineers, and Department of Water Quality. These are just a few of the many agencies that have provided input during permit application process and design of Scott River projects.

The above mentioned material is important in relating history or background in a report. The most important item is the end result. This end result shows how private landowners, faced with losing soil that supported their livelihood, united together to stabilize river banks and establish riparian zones. These applied conservation practices have provided fish and wildlife habitat within the study area. Additional environmental concerns and permit applications will add to tasks of design and performance of projects remaining on the river. The landowners track record is good and the pattern for stabilization of banks and producing riparian growth is very visible.

DESCRIPTION OF STUDY AREA

LOCATION:

The Scott River inventory and evaluation of the riparian system includes the left and right banks (facing downstream) and the riparian zones adjacent to the Scott River. The upstream end of the project is located 7.0 miles SE of Etna, CA in the North 1/2 Sec. 25, T41N, R9W, MDM. The project study area ends 8.0 miles NW of Fort Jones, CA in the NE1/4 Sec.28, T44N, R10W MDM. All of the project area is in Scott Valley, located in the Western portion of Siskiyou County. The geographic upstream location is from the downstream end of the dredger tailings, and the downstream end is where the river enters the canyon.

The study area is 29.7 miles on the left bank and 29.5 miles on the right bank. Bank definition could include the following physical conditions as recorded on the field work sheet: 1) Old Meander line, 2) Gravel, 3) Protected with large rock with flow at toe, 4) Vegetative stability, 5) Vertical eroding bank.

The Scott River flows true North from the upstream point of the project for 16.9 miles. The flow direction then changes to a North Westerly direction for a distance of 12.8 miles until it leaves Scott Valley into the narrow canyon area.

LAND OWNERSHIP

All land within the project study area is privately owned. Reference sheets #1 thru #22, pages 17 - 38.

TOPOGRAPHY

The landforms adjacent to Scott River are flat alluvial flood plains subject to flooding. The elevation range within the project study is 2,907 feet to 2,643 feet.

SOILS

The soils have been mapped by U.S.D.A. Soil Conservation Service. Soil Survey of Siskiyou County, California, Central Part, 1978.

See Appendix A for the study area soil characteristics.

VEGETATION

The riparian zones along the Scott River support a variety of trees, weeds, and grasses. See figures #4-7 for the Dominant species, and Figures #8-11 for the understory species.

METHODS AND MATERIALS

The on-site observance of 373 sites on Scott River resulted in a current condition and trend assessment. Dennis Maria, Biologist for the California Dept. of Fish & Game, suggested that the qualitative site condition assessment be used for this study. The following material was used as a guideline in the preparation of the field assessment work sheet.

A numeric grading system from one (1) to five (5) was used. The numeric evaluation score was based on several factors which collectively determine the relative condition of each riparian system. Of these, the negative factors are, in reality, pressures on the system which tend to collectively disrupt its internal structure and dynamics, and are weighed against the natural structural and functional factors which give riparian systems their normal forms. These factors (all of which have component parts) include:

1. plant structure, floristics, and diversity (including cover density or crown closure and obligate riparian indicator species);
2. distribution and extent of vegetation (historical, present, and potential);
3. intrazone and adjacent land uses;
4. stream channelization;
5. available water supply and water diversions; and
6. present apparent (subjective) trend in condition.

In addition to the one (1) through five (5) numeric evaluation, three modifiers were used to describe apparent trends in riparian system condition: a "D", "R", or "S" was used to denote a degrading, recovering, or stable riparian system, respectively.

The numeric evaluation description is listed below:

<u>Score</u>	<u>Descriptors</u>
1--	near-pristine area fairly typical of a climax riparian vegetation in its particular geographic location; no obvious disturbance; areal extent (riparian zone coverage) completely realized; indicator and obligate riparian plant species present for particular regional environment.
2--	good riparian vegetation with typical obligate indicator species characteristic of the geographic location; advanced successional stage; minimal disturbance; riparian zone moderately but not completely vegetated;
3--	disturbed riparian vegetation with moderate diversity of riparian species and intermittent canopy closure; obvious disruption from human-use activities; areal and vegetational potential of riparian zone less than complete;

- 4-- degraded riparian vegetation with low species diversity; few obligate riparian species and sparse canopy covering; exotic species often invading; heavy impact and disruption from human-use activities; potential areal extent, species diversity and vegetation density severely constrained.
- 5-- severely degraded riparian vegetation, usually lacking obligate riparian indicator species and often lacking mesic vegetation; many exotics often present; usually much bare ground visible; very heavy impact from human-use activities; potential extent, diversity and density of vegetation within riparian zone completely unrealized and severely limited.

The trend modifier descriptions are listed below:

- D (degrading)--riparian vegetation decreasing in apparent areal extent, plant species diversity, or canopy closure due to disruptive, human-use influence;
- R (recovering)--riparian vegetation progressing in successional stages toward presumptive climax type due to removal of disruptive impacts or imposition of active resource management;
- S (stable) -- riparian vegetation appearing to be maintaining present areal extent, species diversity, and canopy density.

The qualitative site condition assessment findings are presented in Figure 2.0.

METHODS AND MATERIALS

The approach selected for the inventory and evaluation is described on pages 5 - 6. In order to complete those objectives, field observation was necessary, along with the use of aerial photos and the review of planned projects that have been completed on the Scott River. The author gave an added dimension to the evaluation by adding his expertise, work experience and knowledge of the study area.

The field work was completed by doing a direct observation of the different site. These site determinations included the following criteria:

1. Fenced or not fenced.
2. Livestock exclusion
3. Livestock access
4. Bank protection with large rock or not protected
5. Dominate species age
6. Change in crown density species or percentage
7. Percentage or diversity of understory cover
8. Property ownership boundary
9. Low flow location

Site delineation was by direct observation in field. The information collected at each site was recorded on the field work sheet as follows:

Field work sheet #

Plan Sheet # - Reference to ownership plan map

Owner - name recorded

Left or Right bank - Determination facing downstream

Fenced - If not, indicated that the site is not fenced

Low water flow - Indicated if at toe of slope

Livestock access or exclusion - one indicated

Fenced site could be indicated and still have livestock access

Riprap - large rock indicated and date of completion recorded

Other - Levee - ditch along bank - dedicated strip

Length - Faced distance

Width - Measured slope and/or riparian zone. Recorded width of slope and/or riparian zone at paced 100' stations - averaged and recorded in width for calculation of area in acres.

Age - information from aerial photo or from construction plan.

Dominate species - identified - recorded - height measured and/or estimated.

Crown density - Estimated by direct observation

Understory - Identified - recorded - height measured and/or estimated.

Cover density - Estimated by direct observation.

Current Condition and Trend were recorded.

Species of Concern - animal or plant

Comments - recorded grass species, weed density, "species of concern", recommendations for the site, and any other information that could be helpful and pertaining to the site.

Site Descriptors:

1. Nearly Pristine - Two or more dominate species - average 25 to 30 feet in height with 90% to 100% crown density - slope and/or cover density 85% to 95% shading and/or overhang of low flow at toe of bank slope - No apparent dieback of dominate species. Age 20 years or more. Livestock excluded.
1.1%
2. Good
54% One or two dominate species, average 8 to 20 feet in height, with 65% crown density. The slope and cover density average 48%. Bank has been stabilized with large rock on 63% of these sites. Livestock is excluded on 64% of these sites. Some dieback of dominate species is apparent.
3. Disturbed
35% One or two dominate species, 10 to 35 feet in height with 25% crown density. Dieback of dominate species is apparent. These sites lack bank slope growth. Banks have been stabilized with large rock on 31% of these sites. Livestock exclusion occurs on 26% of these sites. Cover density average is 40%. Bank swallow habitat is present on the eroding banks.
4. Degrading
9.6% No crown density on 65% of these sites. Some vertical and/or eroding banks occur on these sites. Sites that are on the inside of curves have sand and gravel deposited, which blends with the old meander line. Very sterile, dry area. Sites with crown density usually have two dominant species, 10 to 25 feet in height with understory slope growth of 18%. Banks have been stabilized with large rock on 14% of these sites. Livestock is excluded on 11% of these sites.

Trend Consideration:

When evaluating a site, trend changes must be taken into consideration. Changes can be brought about by man, animal or nature, and can be negative or positive. Positive changes that come to mind are management practices such as fencing, livestock exclusions and vegetative plantings.

Recovering:

One question comes to mind when speaking of the recovering trend site- what is the site recovering from? This site may have had a vertical eroding bank with no riparian vegetation and there is knowledge that livestock had access in 1970.

The recovering trend site has one or more species of riparian growth on the top of the bank and bank slope. The soil profile is protected with large rock riprap and/or vegetative cover with no material from the soil profile eroding into the flow of the river. The riparian growth on the recovering trend site indicates no dieback of species.

The crown density average is 61% with 80 of the 139 sites (58%) having livestock exclusion. Rock riprap protection exists on 72 sites (52%), although the average age of growth on these recovering sites is 19 years. Some sites only have two years of riparian growth.

Stable:

The stable site has one or more dominate species of riparian growth on the bank slope and top of bank area. The bank is protected with large rock riprap or vegetative cover. The soil profile is not contributing material into the flow. The average age of growth on the sites is 24 years. The riparian growth on some sites has dieback of species (5 to 10%). Rock riprap protection exists on 65 sites (52%) with 74 of the 126 sites (59%) having livestock exclusion.

Degrading:

A large percentage of these sites were recovering or stable within the last two decades. Other sites are on the inside of curves where sand and gravels have been deposited and are very dry and sterile areas.

The average crown density is 51%. Livestock are excluded on 16 (15%) of the 109 sites. The average age of this riparian growth is 24 years with one or more species at these sites. Streambank protection with large rock exists on 36 (33%) of the 109 sites. Vertical eroding banks that contribute silt to the flow are included in these sites. Some of these vertical banks have existing bank swallow habitat.

RESULTS AND DISCUSSION

With 55% of the sites observed indicating their current condition as nearly pristine or good, the overall condition of the riparian growth is on the positive side. On the negative side, 45% of the sites observed indicate disturbed or degraded current conditions. Necessary management or conservation practices should be implemented to bring these sites over to the positive side. The list of landowners ranked according to their willingness to participate shows a positive indicator to accomplish restoration and maintenance to the Scott River riparian system.

As a result of this evaluation study, it indicates 64 (17%) of the sites have cottonwood. This species is adapted for establishment on the existing soil profiles and available moisture. Areas that have been fenced to exclude livestock and proposed fenced areas should have cottonwood plantings established. Cottonwood species will afford additional shading capabilities. In some of the narrow cross-section river areas mature cottonwoods could produce an almost closed canopy over the flow area. Cuttings of local stock are available for planting.

The average tree age for the left bank is 19 years. This includes sites that have had work completed in the last three years. The left bank has 61 sites that have no tree age. These 61 sites are approximately 46,293 feet or 29% of total length of the study area. Eroding or unstable banks totaling 8,185 feet or 5% of the total need protection with large rock riprap. Included within these 61 sites are 14 sites that are located at the toe of hill slopes and/or very dry gravelly, sandy sterile sites.

The average tree age for the right bank is 20 years. This includes sites that have had work completed in the last five years. The right bank has 74 sites that have no tree age. These 74 sites are approximately 49,480 feet or 32% of total length of the study area. Eroding or unstable banks totaling 12,840 feet or 8% of the total need protection with large rock riprap. Included within these 74 sites are 15 sites that are located at the toe of hill slopes and/or very dry, gravelly, sandy sterile sites.

The total of the 135 sites or 36% of total that have no tree age indicated have no fenced sites and no sites protected with large rock riprap. The following is inventory breakdown of the descriptors and trend for the 135 sites: 2R (good & recovering) = 40, 2S (good & stable) = 10, 3R (disturbed & recovering) = 18, 3S (disturbed & stable) = 13, 3D (disturbed & degrading) = 26, 4S (degraded and stable) = 1, 4D (degraded and degrading) = 26, 5D (severely degraded and degrading) = 1. The total of eroding and/or unstable banks would increase with prolonged high flows in the Scott River.

Maintenance of existing large rock riprap for bank protection, existing fences, and replacement of fences destroyed by high flows was discussed with landowners. The above was included within the list of recommended practices on compiling landowner willingness.

SUMMARY

The streambanks protected with large rock are the base for the existing riparian system. The protected areas have provided protection to adjacent areas and riparian growth has been established. The private landowners cooperating with several governmental agencies have installed protective measures along the banks. Private landowner cooperation has been very important in the establishment of the present riparian cover.

The following information is a summary of Figures 2.0 through 11.0:

Figure 2.0 - 373 sites - current condition - nearly pristine 1%
good 54%
disturbed 35%
degraded 10%

trend - recovering 35%
stable 37%
degrading 28%

Figure 3.0 - Acres and bank length by miles and feet.

Dominant Species:

Figure 4.0 - Dominant species - age:

130 sites - Left bank - Dominant species average tree age
19 years
108 sites - Right bank - Dominant species average tree
age - 20 years
68% of total sites on left bank and 58% of total sites on
right bank have tree age indicated.

Figure 5.0 - Dominant species - alder & cottonwood:

70 sites - left bank - alder - average height 26 feet
32 sites - left bank - cottonwood - average height 59'
57 sites - right bank - alder - average height 25 feet
32 sites - right bank - cottonwood - average height 55'

Figure 6.0 - Dominant species - willow:

133 sites - left bank - willow - average height 19 feet
114 sites - right bank - willow - average height 19 feet

Willow Species:

55 sites - left bank - 29% of total have one specie
80 sites - left bank - 42% of total have two species
47 sites - right bank - 25% of total have one specie
68 sites - right bank - 37% of total have two species

Figure 7.0 - Dominant species - "other trees"

80 sites - left bank have one or more species as listed
83 sites - right bank have one or more species as listed

Crown density:

Total of 191 sites on left bank - 128 or 67% have average
crown density of 53%

Total of 182 sites on right bank - 106 or 59% have
average crown density
of 59%

Understory:

Figure 8.0 - Grasses:

180 sites - left bank - 11 grass species listed with
each site having an average of
3 grasses and an average height
of 2.2' +/-

184 sites - right bank - 10 grass species listed with
each site having an average of
3 grasses and an average height
of 2.2' +/-

Willow:

Left bank has 57 sites with one specie, 65 sites with two
species, and one site with four species. Six species of
native and introduced willows are listed.

Right bank has 50 sites with one specie, 64 sites with
two species, and four sites with three species. Six
species of native and introduced willows are listed.

Figure 9.0 - Weeds:

181 sites - left bank - 28 weed species listed with each
site having an average of 5 weeds
and an average height of 3.0'.

184 sites - right bank - 28 weed species listed with each
site having an average of 5 weeds
and an average height of 3.0'.

Figure 10.0 - Blackberry:

62 sites - left bank - 1 specie of blackberry

62 sites - right bank - 1 specie of blackberry

Other:

Left bank - 17 species listed that are "woody" species -
alder, cottonwood, clematis, matrimony vine,
etc.

Right bank - 21 species listed that are "woody" species -
chokecherry, golden willow, raspberry, silver
poplar, etc.

Figure 11.0 - Other understory growth:

Left bank - 7 species listed that are primarily legumes
and cereal rye.

Right bank - 6 species listed that are primarily legumes
and cereal rye.

Figure 11.0 continued:

Understory density:

Left bank - 191 sites listed with average density of 48%

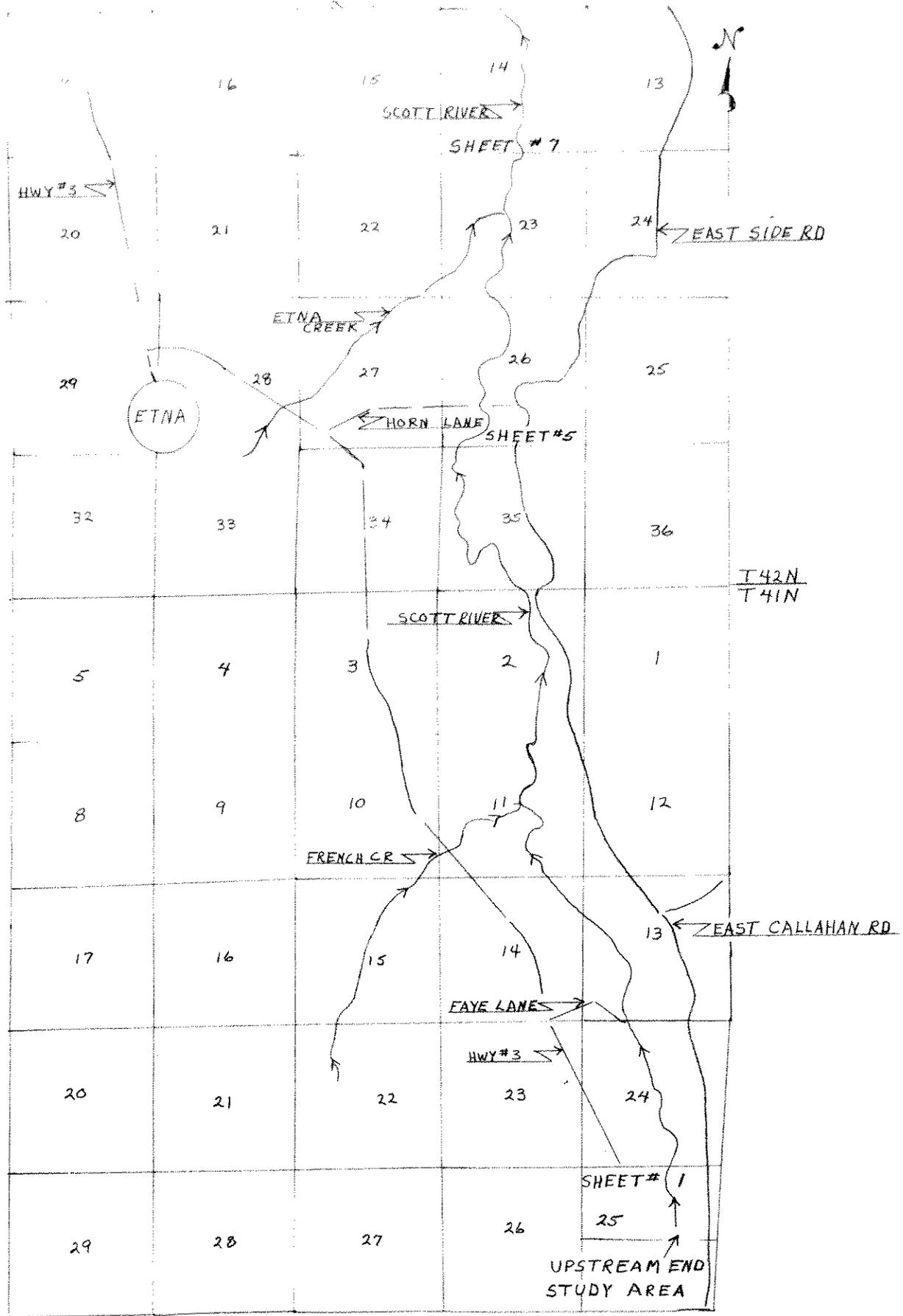
Right bank - 182 sites listed with average density of 49%

Conclusion:

The streambanks and the top of bank areas that have been protected with large rock are stable. Stability of the site is necessary in order to establish new and/or maintain the existing riparian. The woody producing species should be increased both by planting and management. This practice will bring increased crown density growth that will provide more shade and cover to the flow. Planting stock species are available locally from several sites. These are native and introduced species. With increased riparian density the available soil moisture could be depleted during the late summer and early fall.

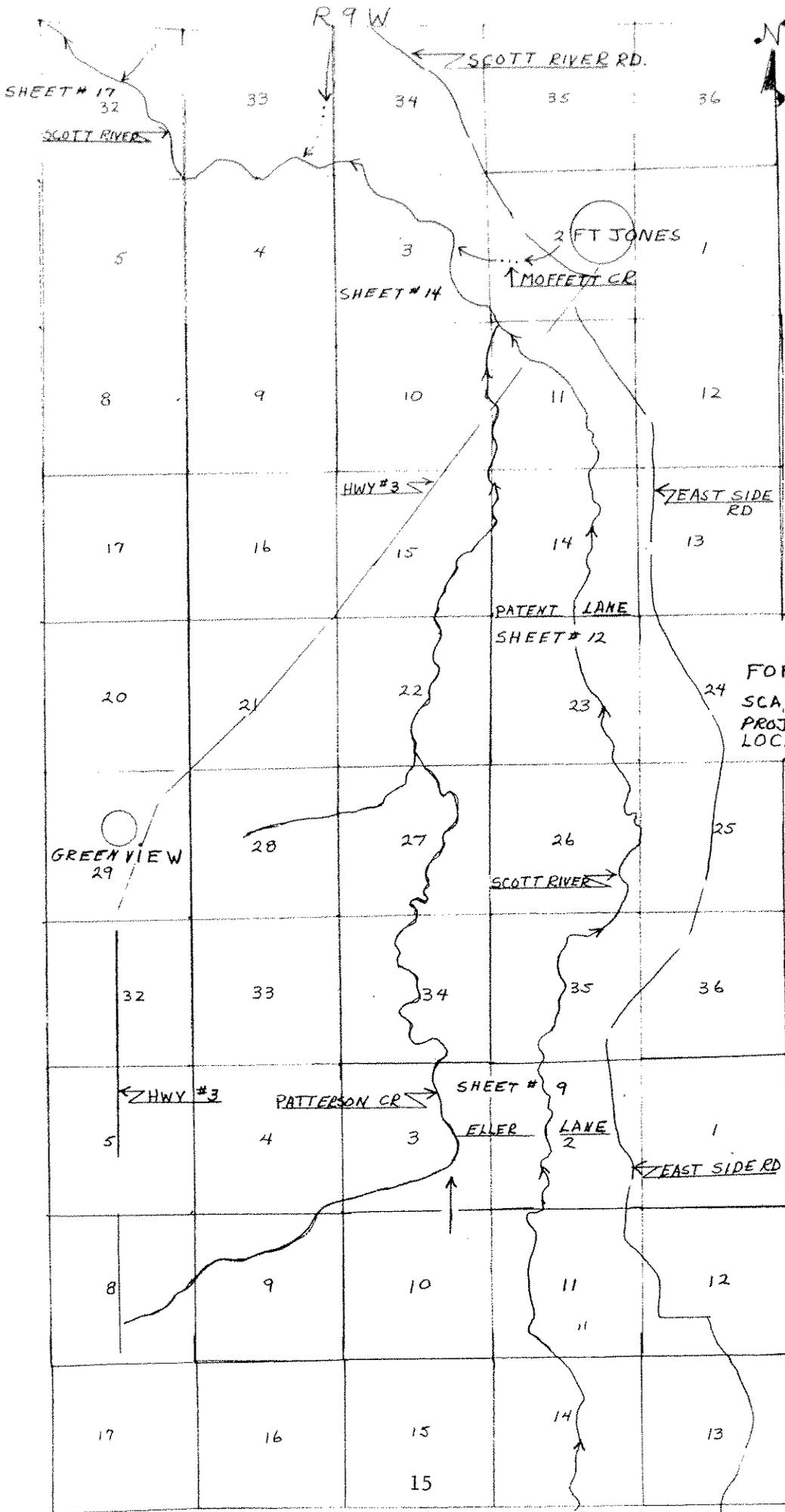
Noxious weed control may be needed on some sites.

Protection and restoration of the riparian system will require maintenance or management practices in place and consideration of new techniques in habitat management as they become available.



ETNA QUAD
SCALE = 1" = 5208'

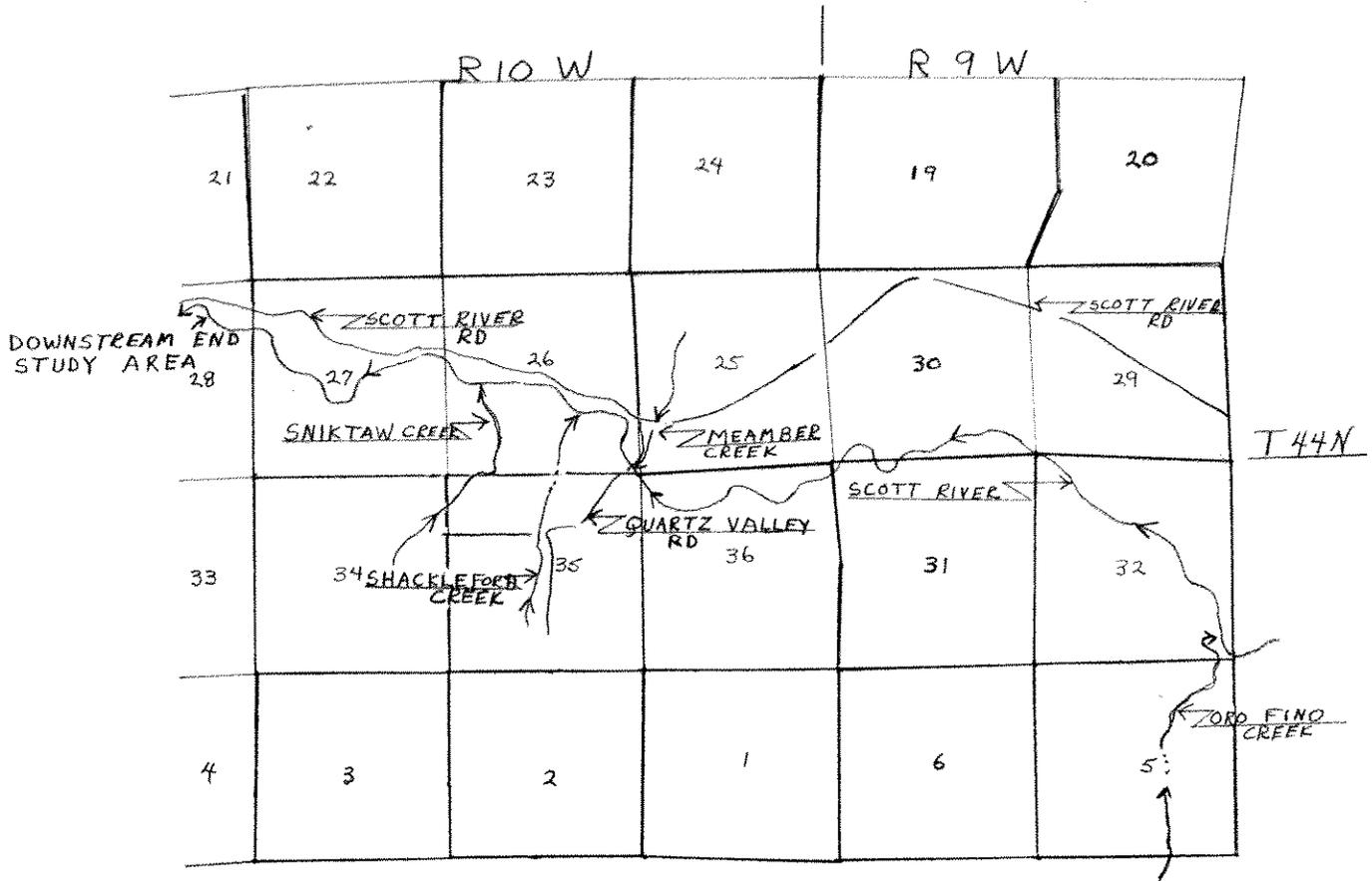
PROJECT 91-HP-10
LOCATION MAP
SHEET 1 OF 3



T44N
T43N

FORT JONES QUAD
SCALE = 1" = 5208'
PROJECT 91-HP-10
LOCATION MAP
SHEET 2 OF 3

T43N
T42N



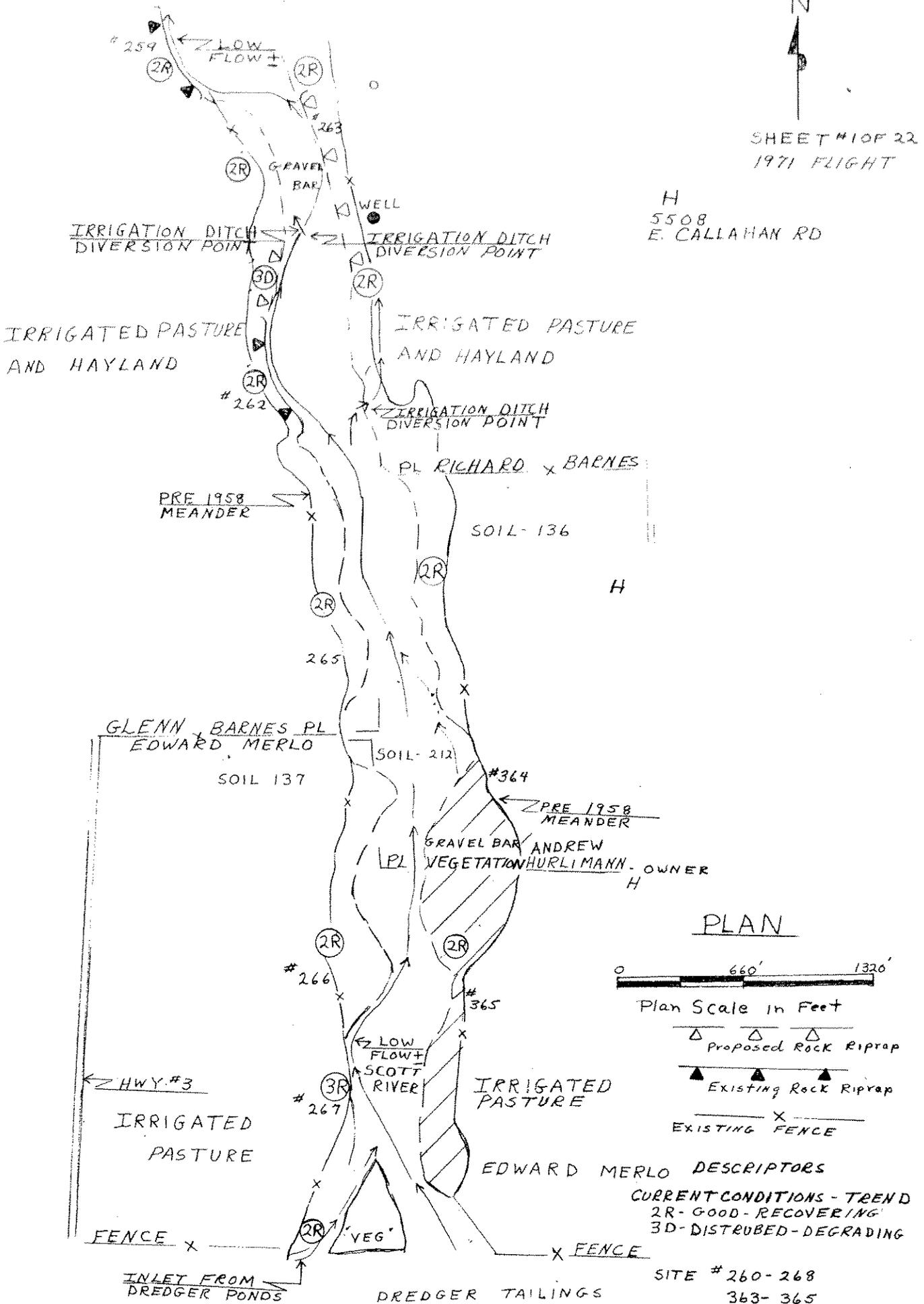
FORT JONES QUAD
SCALE = 1" = 5208'

PROJECT 91-HP-10
LOCATION MAP
SHEET 3 OF 3



SHEET #1 OF 22
1971 FLIGHT

H
5508
E. CALLAHAN RD



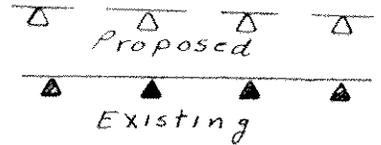
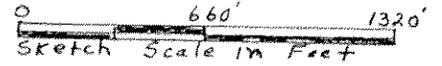
DESCRIPTORS
CURRENT CONDITION-TREND

- 2R- GOOD- RECOVERING
- 3D- DISTURBED- DEGRADING
- 4D- DEGRADED- DEGRADING

SHEET # 2 OF 22



PLAN



SITE # 246-252
254-259

SOIL 137

244

1973 WORK

PRE 1958 MEANDER

SAND, GRAVEL BAR WITH SOME VEGETATION

QUENTIN TOBIAS- OWNER

SOIL 212

OWNER
QUENTIN TOBIAS PL
CARL HAMMOND
OWNER

1967 WORK

1970 WORK

1973 WORK

FAY LAKE ROAD

R9W

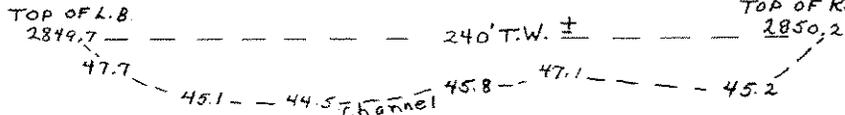
1960 WORK

LOW FLOOD SCOTT RIVER

SOIL 224

SOIL 136

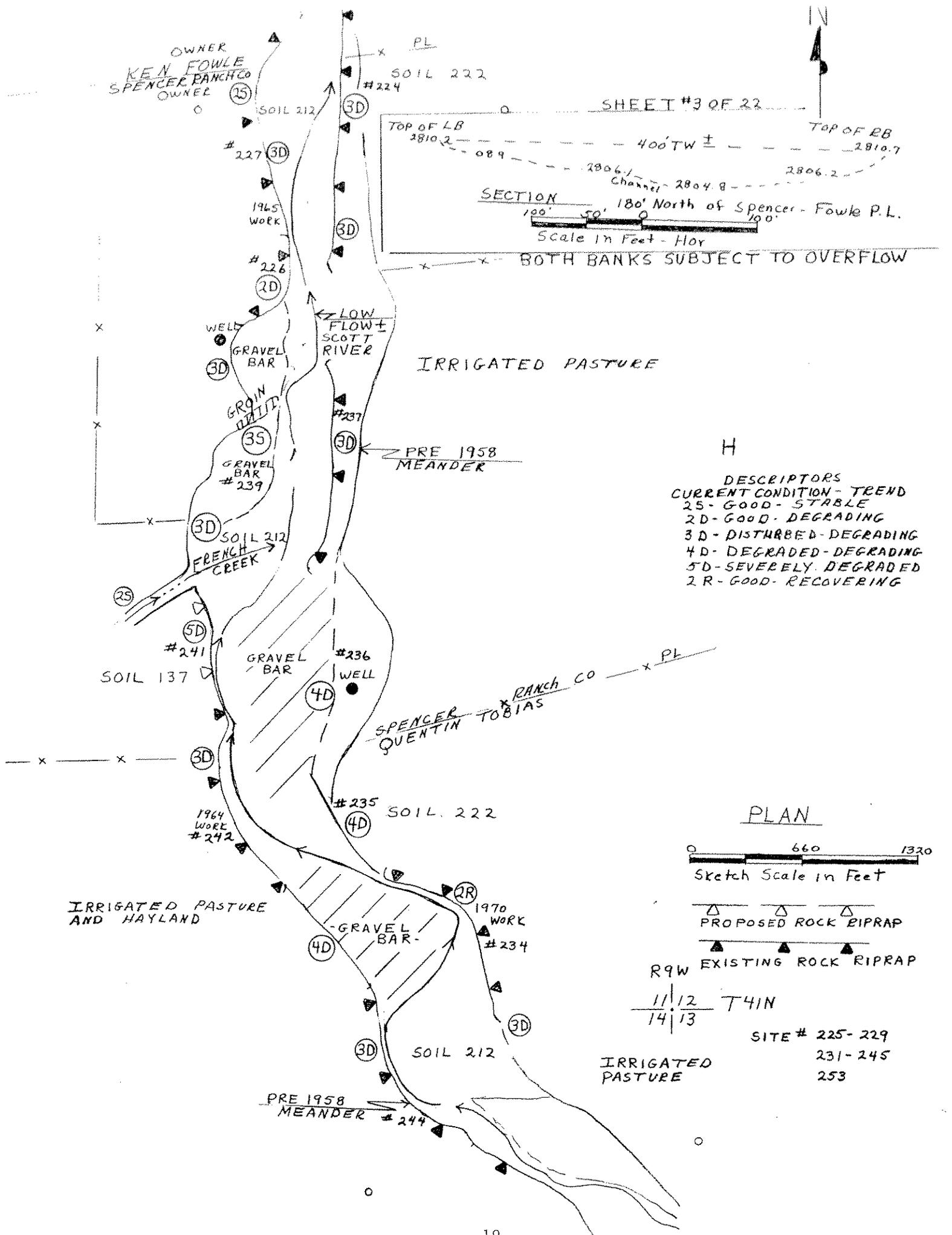
T41N	14	13	SOIL-137
	23	24	



SECTION at Tobias-Hammond PL



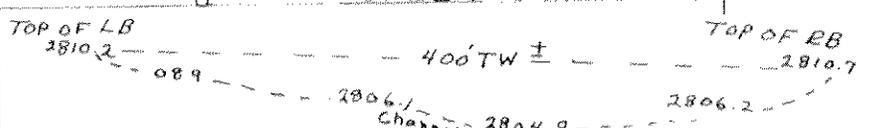
BOTH BANKS SUBJECT TO OVERFLOW



OWNER
KEN FOWLE
SPENCER RANCH CO
OWNER

PL
SOIL 222
#224

SHEET #3 OF 22



BOTH BANKS SUBJECT TO OVERFLOW

IRRIGATED PASTURE

H

- DESCRIPTORS
CURRENT CONDITION - TREND
- 2S - GOOD - STABLE
 - 2D - GOOD - DEGRADING
 - 3D - DISTURBED - DEGRADING
 - 4D - DEGRADED - DEGRADING
 - 5D - SEVERELY DEGRADED
 - 2R - GOOD - RECOVERING

WELL
GRAVEL BAR

LOW FLOW
SCOTT RIVER

GRAIN
WALL

PRE 1958
MEANDER

GRAVEL BAR
#239

SOIL 212
FRENCH CREEK

SOIL 137

GRAVEL BAR

SPENCER
QUENTIN TOBIAS
RANCH CO

SOIL 222
#235

IRRIGATED PASTURE
AND HAYLAND

GRAVEL BAR

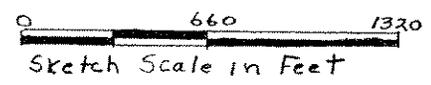
1970
WORK
#234

SOIL 212

PRE 1958
MEANDER #244

IRRIGATED
PASTURE

PLAN



PROPOSED ROCK RIPRAP

EXISTING ROCK RIPRAP

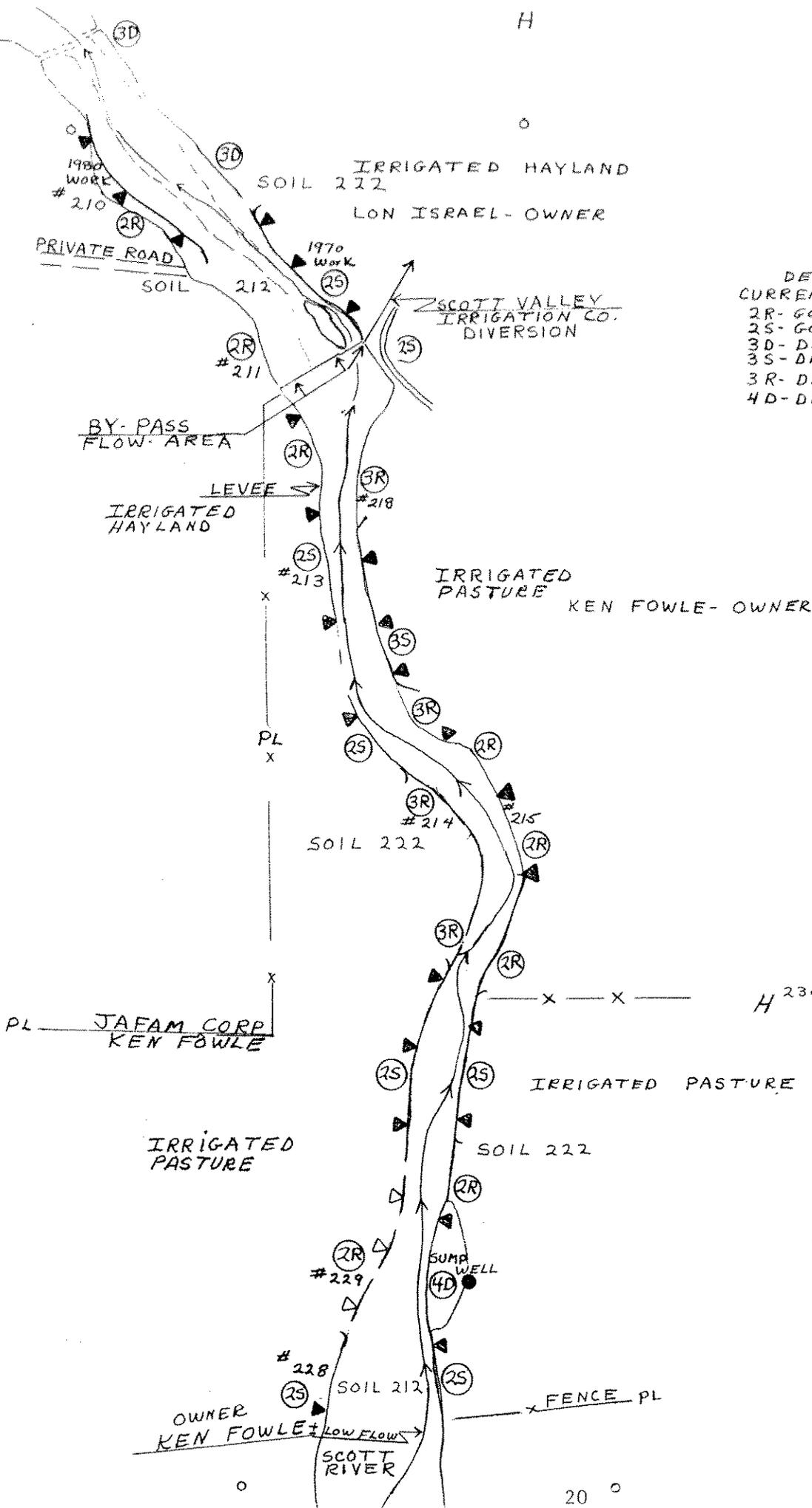
R9W
11/12 T41N
14/13

SITE # 225-229
231-245
253

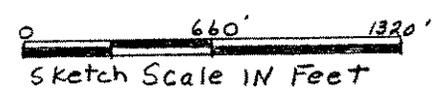


SHEET #4 OF 22

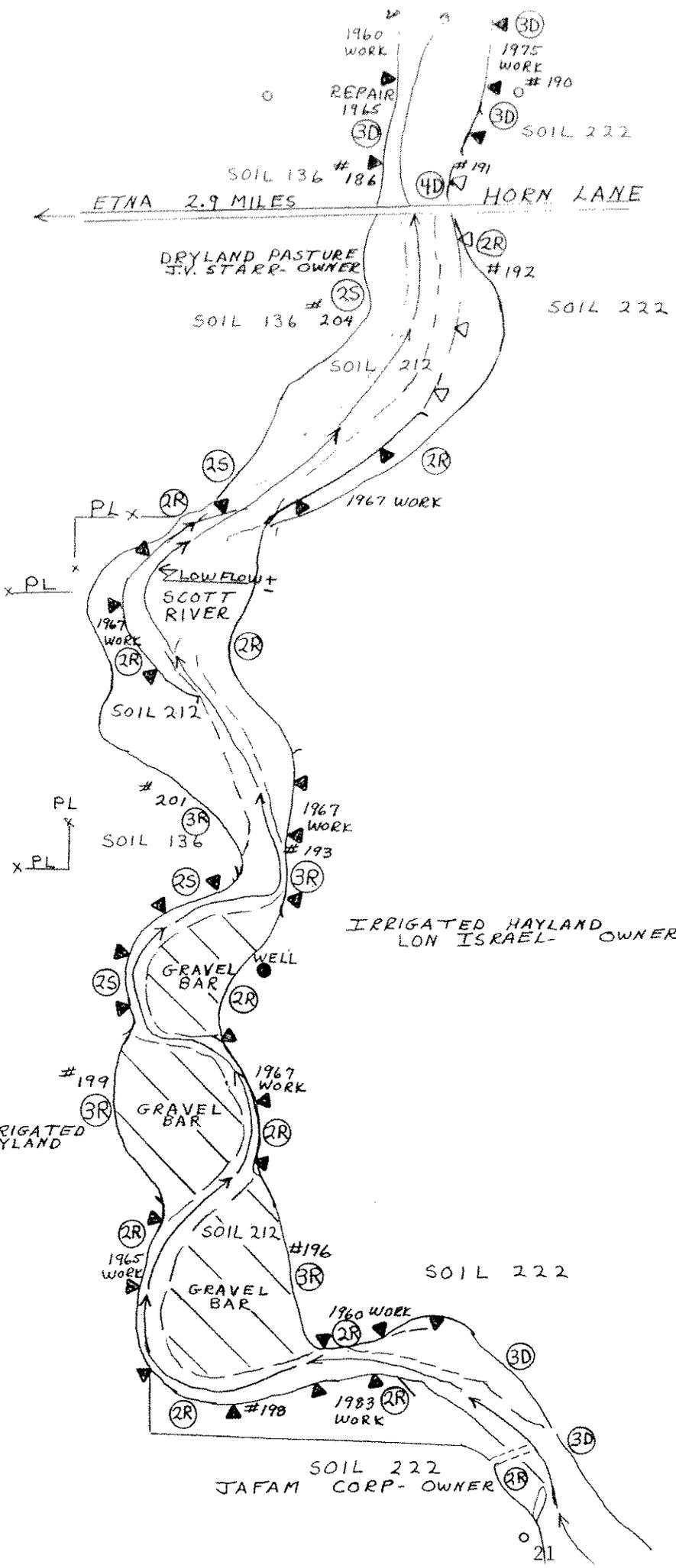
DESCRIPTORS
 CURRENT CONDITION - TREND
 2R- GOOD - RECOVERING
 2S- GOOD- STABLE
 3D- DISTURBED- DEGRADING
 3S- DISTURBED- STABLE
 3R- DISTURBED- RECOVERING
 4D- DEGRADED- DEGRADING



PLAN



- △ PROPOSED ROCK RIPRAP
- ▲ EXISTING ROCK RIPRAP
- SITE # 205-206
- 209-224
- 228-230

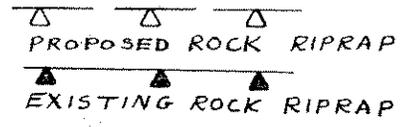
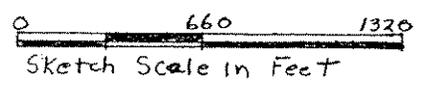


N
SHEET #5 OF 22

DESCRIPTORS

CURRENT CONDITION	TREND
2S- GOOD	STABLE
2R- GOOD	RECOVERING
3D- DISTURBED	- DEGRADING
3R- DISTURBED	- RECOVERING

PLAN



DESCRIPTORS

CURRENT CONDITION	TREND
2S- GOOD	STABLE
2R- GOOD	RECOVERING
3R- DISTURBED	- RECOVERING
3D- DISTURBED	- DEGRADING

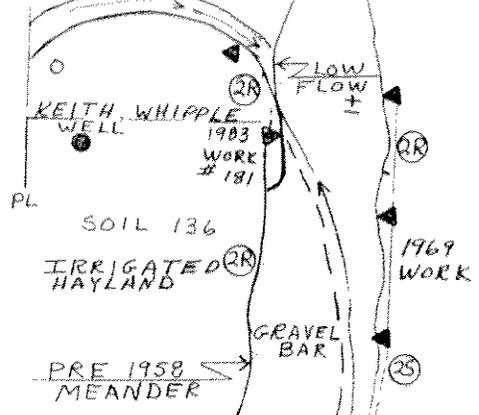
SITE # 191-204
207-209



SHEET #6 OF 22

KEITH WHIPPLE-OWNER
IRRIGATED HAYLAND

ETNA CREEK



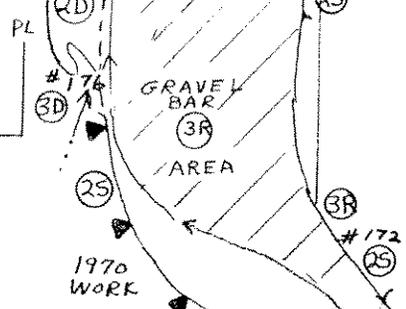
DESCRIPTORS

CURRENT CONDITION	TREND
2S - GOOD	STABLE
2R - GOOD	RECOVERING
2D - GOOD	DEGRADING
3S - DISTURBED	STABLE
3D - DISTURBED	DEGRADING
3R - DISTURBED	RECOVERING
4D - DEGRADED	DEGRADING

SITE # 168-182
186-190

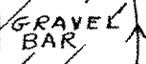
JACK JENNER

SOIL 137



KEITH WHIPPLE
IRRIGATED HAYLAND

SOIL 136



SOIL 222

KEITH WHIPPLE-OWNER



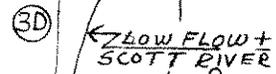
SOIL 212



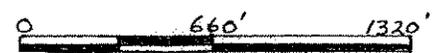
IRRIGATED HAYLAND

F. D. HORN- OWNER
DRYLAND PASTURE

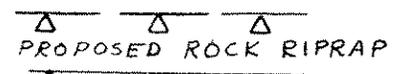
#190



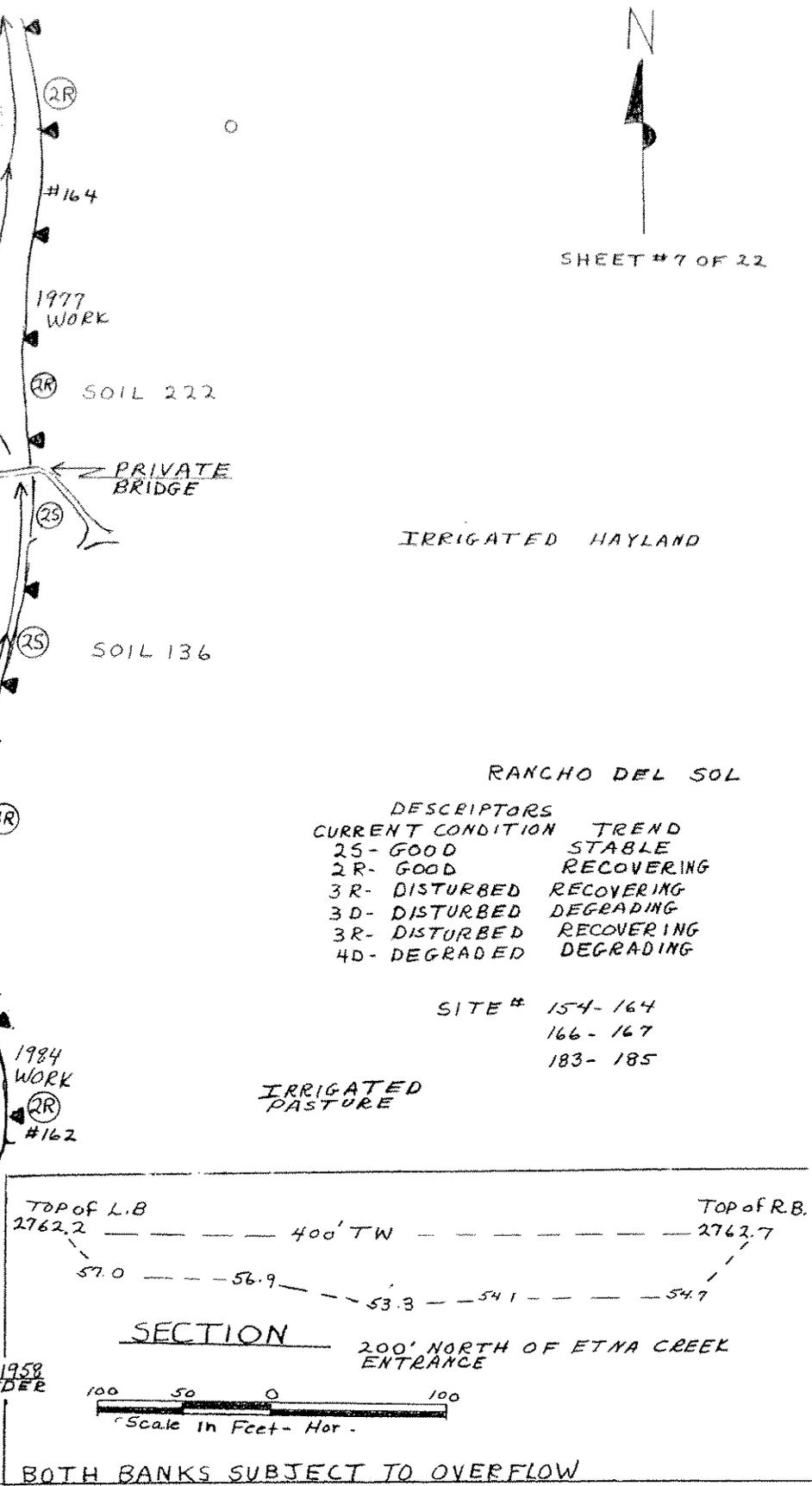
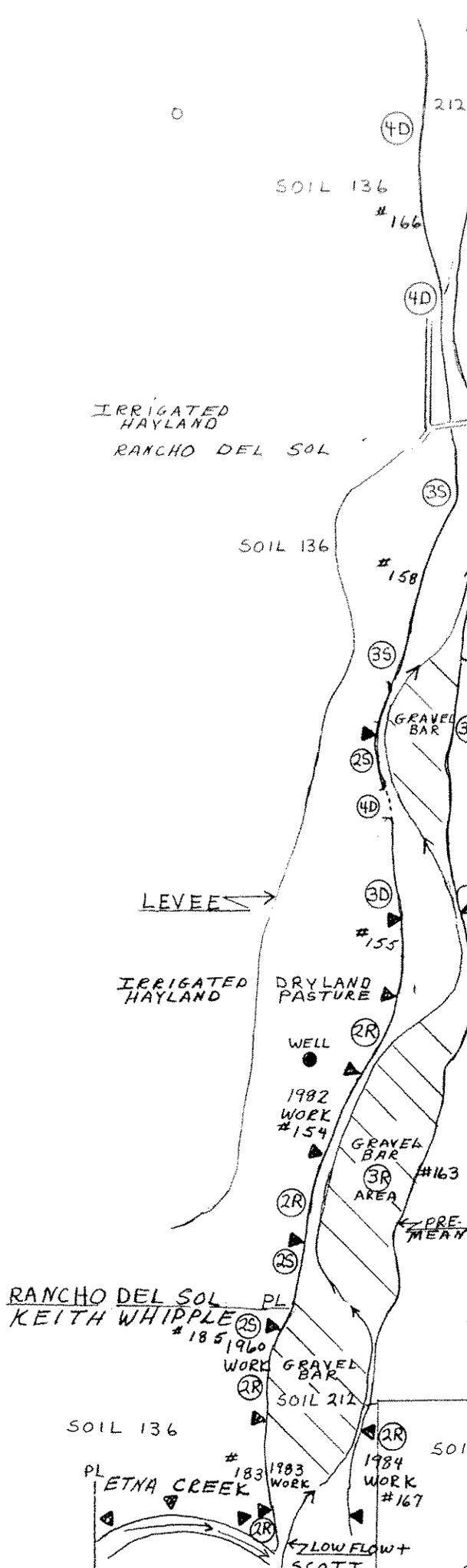
PLAN



Sketch Scale in Feet



EXISTING ROCK RIPRAP

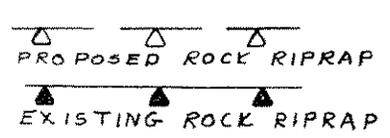
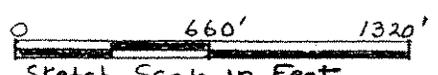


RANCHO DEL SOL

DESCRIPTORS	CURRENT CONDITION	TREND
25	GOOD	STABLE
2R	GOOD	RECOVERING
3R	DISTURBED	RECOVERING
3D	DISTURBED	DEGRADING
3R	DISTURBED	RECOVERING
4D	DEGRADED	DEGRADING

SITE # 154-164
166-167
183-185

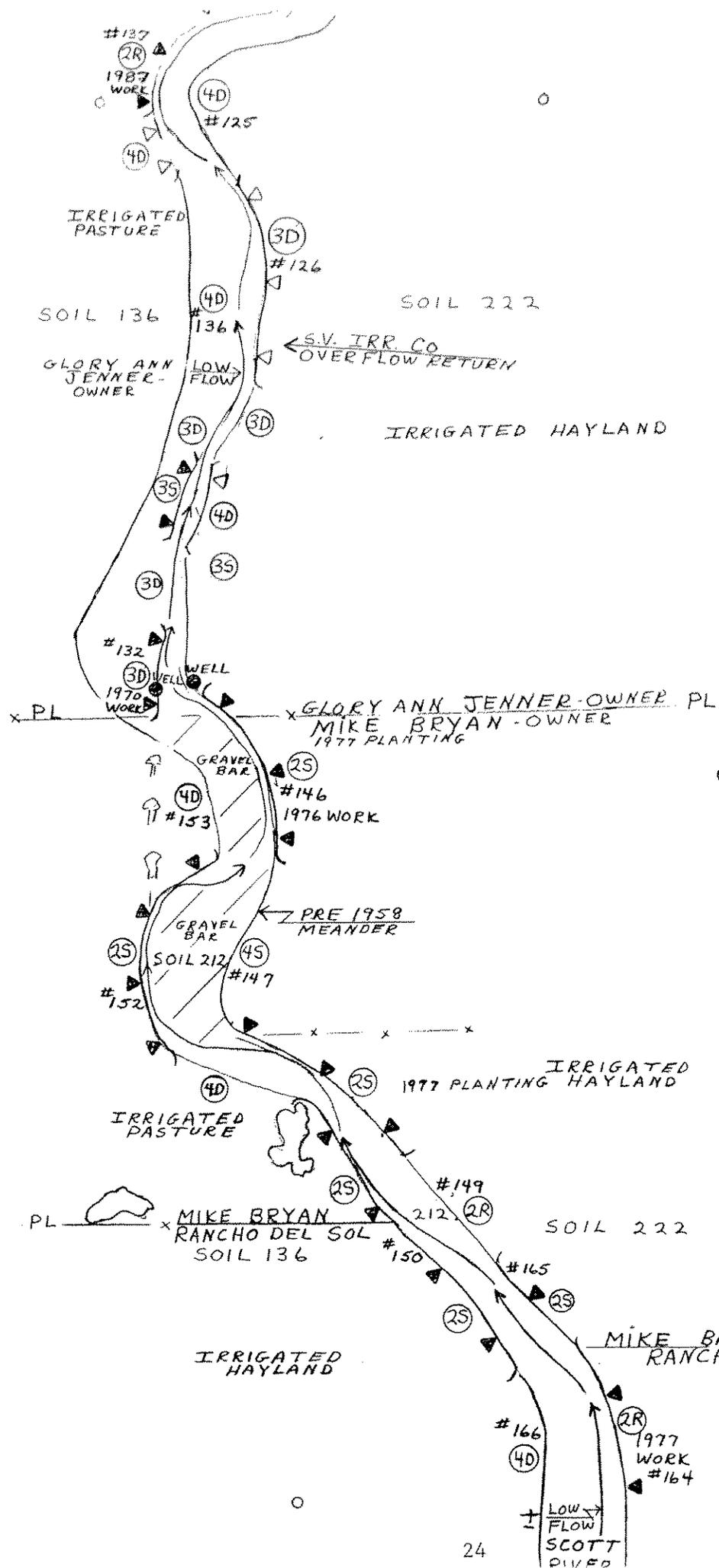
PLAN



IN

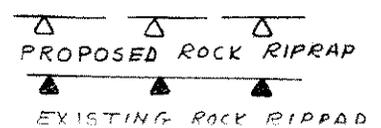
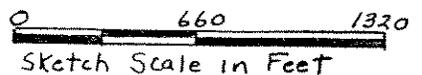


SHEET # 8 OF 22



DESCRIPTORS	CURRENT CONDITION	TREND
2S	GOOD	STABLE
2R	GOOD	RECOVERING
3S	DISTURBED	STABLE
3D	DISTURBED	DEGRADING
4D	DEGRADED	DEGRADING

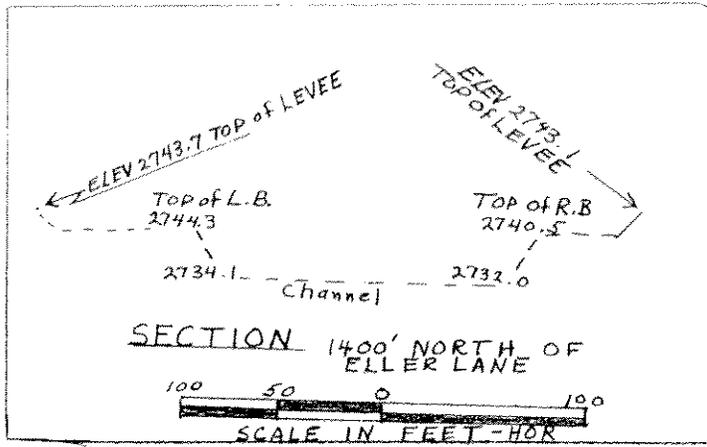
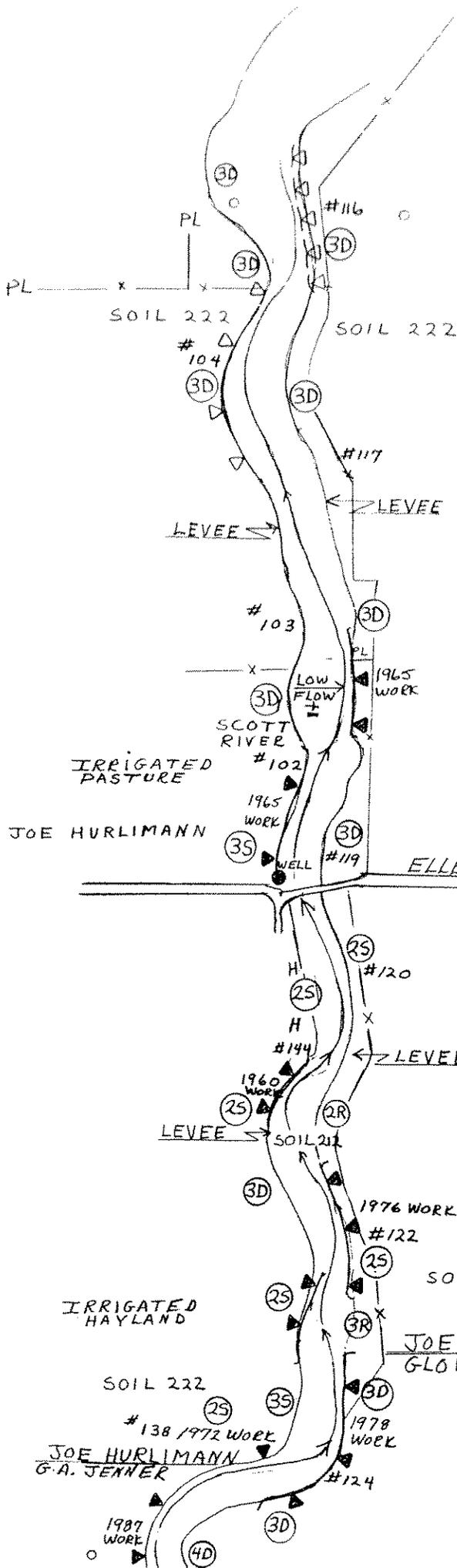
SITE # 125-138
 146-153
 165





SHEET #9 OF 22

IRRIGATED HAYLAND
DAVE BLACK - OWNER



IRRIGATED HAYLAND

DAVE BLACK - OWNER

DESCRIPTORS	CURRENT CONDITION	TREND
25	GOOD	STABLE
3D	DISTURBED	DEGRADING
4D	DEGRADED	DEGRADING

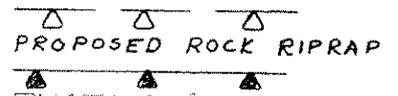
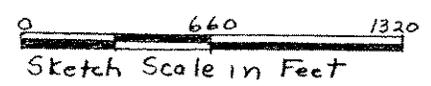
SITE # 102-104
116-124
137-146

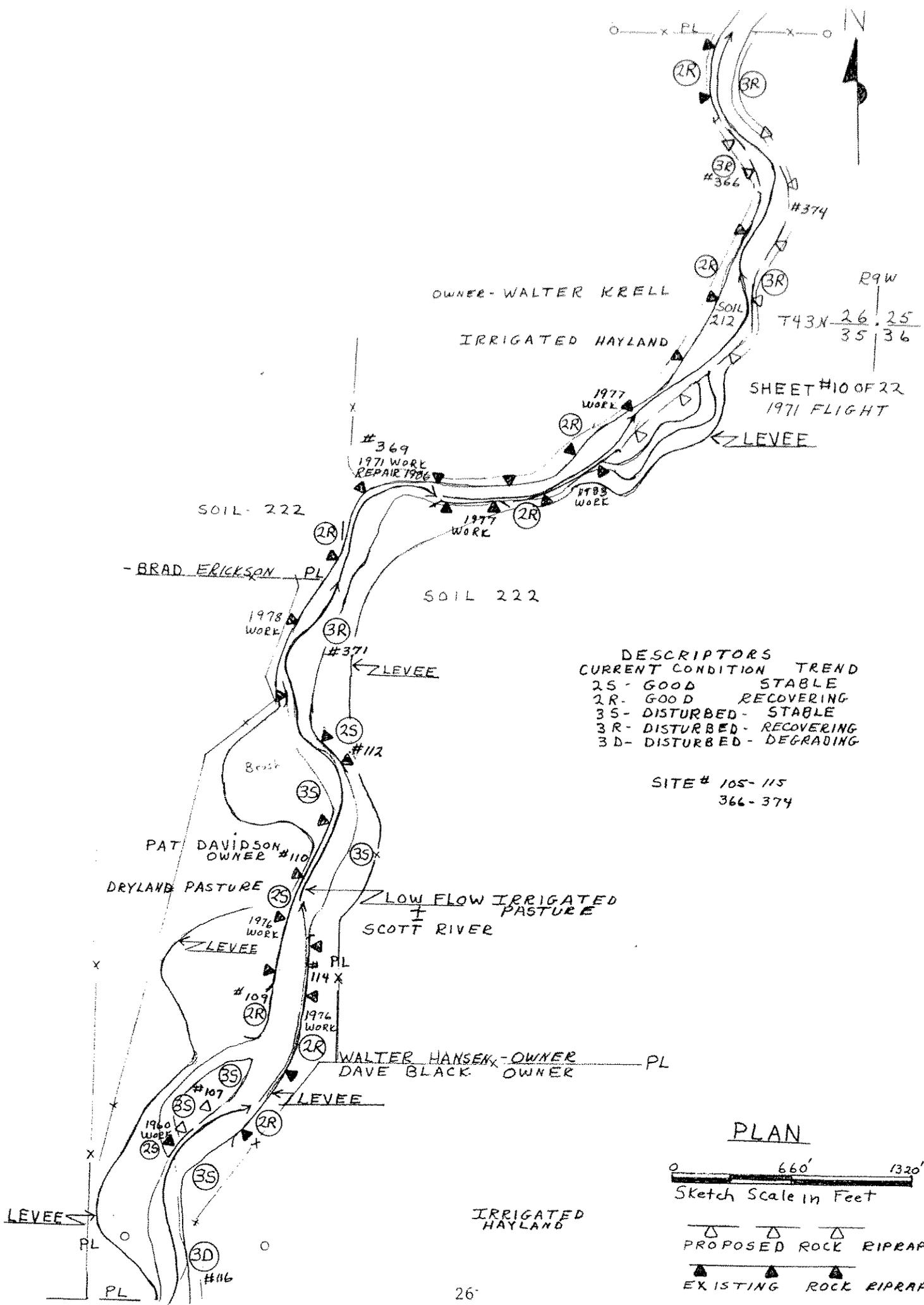
IRRIGATED HAYLAND

IRRIGATED HAYLAND

JOE HURLIMANN - OWNER
GLORY ANN JENNER - OWNER

PLAN





R9W

T43N-26-25
35 36

SHEET #10 OF 22
1971 FLIGHT

DESCRIPTORS

CURRENT CONDITION	TREND
2S - GOOD	STABLE
2R - GOOD	RECOVERING
3S - DISTURBED	STABLE
3R - DISTURBED	RECOVERING
3D - DISTURBED	DEGRADING

SITE # 105-115
366-374

PLAN

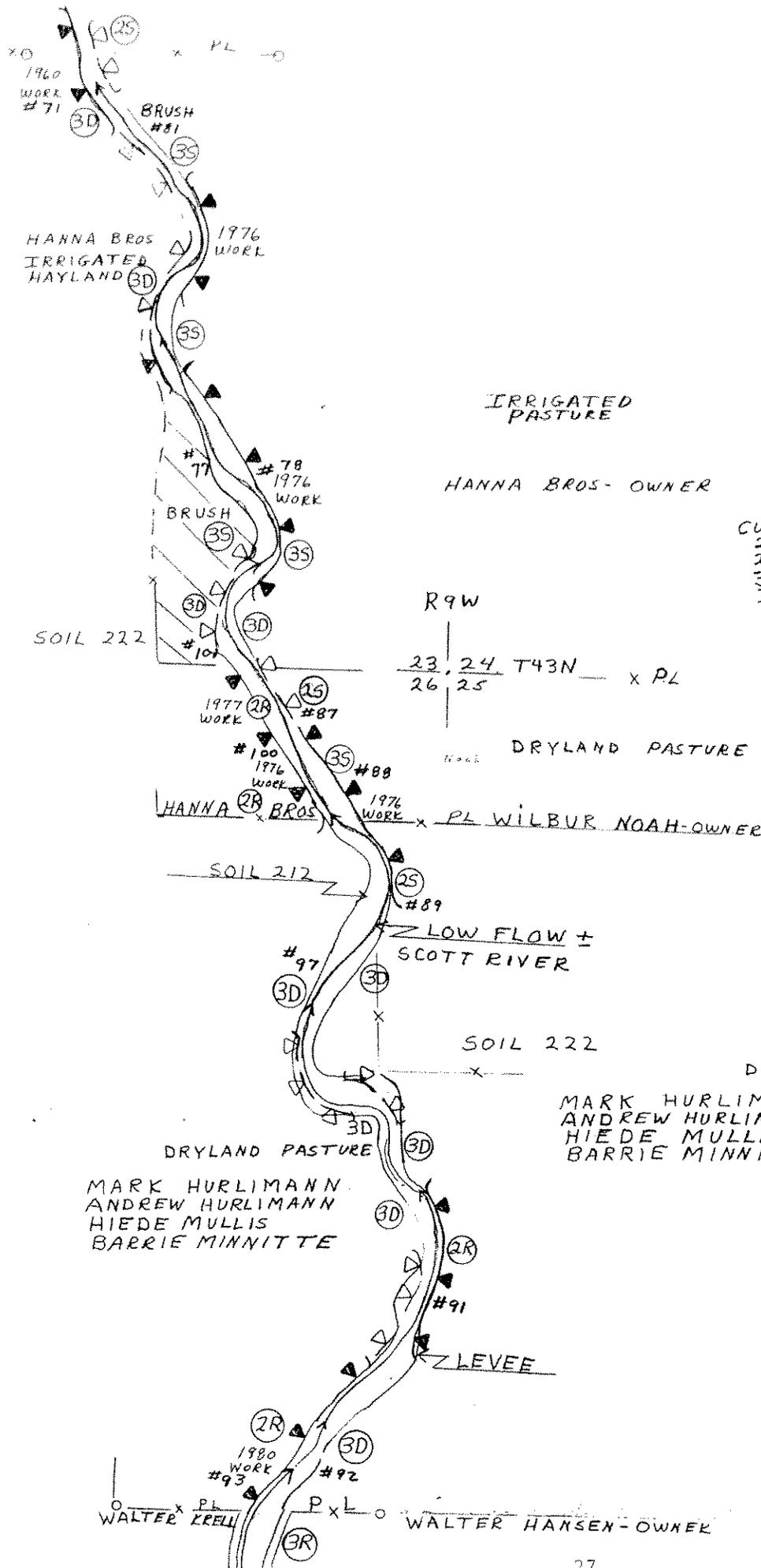
0 660' 1320'
Sketch Scale in Feet

- △ PROPOSED ROCK RIPRAP
- ▲ EXISTING ROCK RIPRAP

N



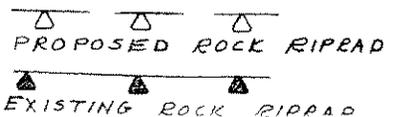
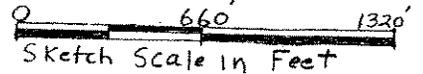
SHEET #11 OF 22



DESCRIPTORS	CURRENT CONDITION	TREND
25	GOOD	STABLE
2R	GOOD	RECOVERING
3S	DISTURBED	STABLE
3D	DISTURBED	DEGRADING

SITE # 71-82
86-101

PLAN



W. WEST BURTON SEAVER

STEGALL BROS LAND

SHEET #12 OF 22
H-10125 EASTSIDE RD

SOIL 136

SOIL 136

IRRIGATED HAYLAND

IRRIGATED PASTURE

1986 WORK #60

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

(25)

PL CHARLES SEAVER

PL STEGALL BROS. LAND

IRRIGATED PASTURE SOIL 136

IRRIGATED PASTURE

TOBIAS - OWNER

JACK PIERSALL - OWNER

PATENT LANE
3890 CFS
BANK FULL CAPACITY
SOIL 222

STOCK RAMP #69

1990 WORK
LOW FLOW ±
SCOTT RIVER

IRRIGATED PASTURE

STOCK RAMP

IRRIGATED PASTURE

(4D) (3D)

PL TOBIAS HANNA

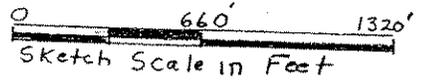
PL QUENTIN HANNA TOBIAS-OWNER PL BROS-OWNER

R9W	H
14	13 T43N
23	24

DESCRIPTORS
CURRENT CONDITIONS TREND
25- GOOD STABLE
2R- GOOD RECOVERING
15 NEARLY PRISTINE-STABLE
3D- DISTURBED - DEGRADING

SITE # 49-70
83-85
37-38

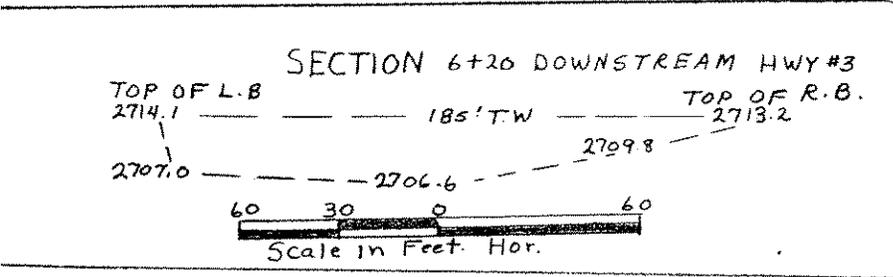
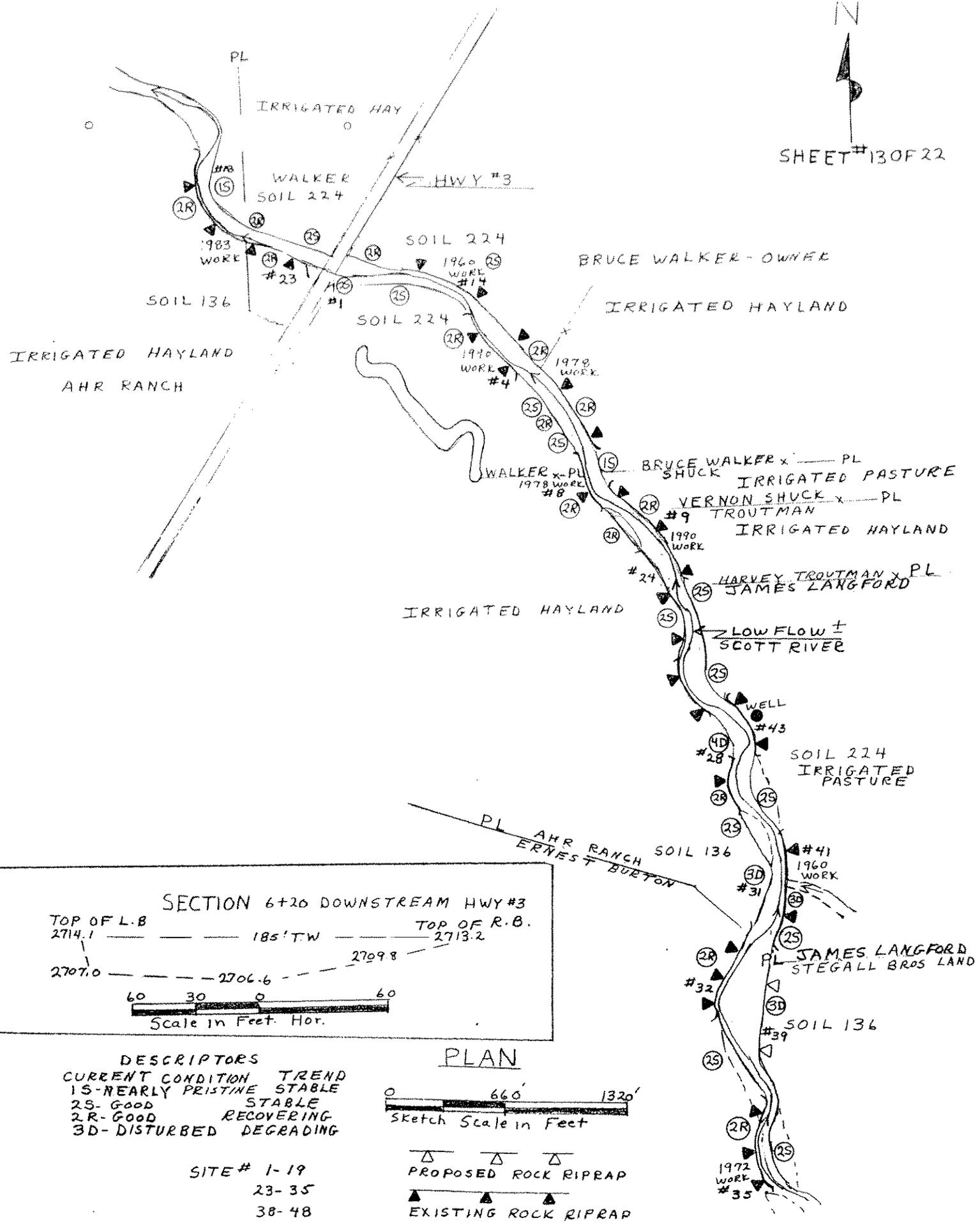
PLAN



△ PROPOSED ROCK RIPRAP
▲ EXISTING ROCK RIPRAP



SHEET #13 OF 22

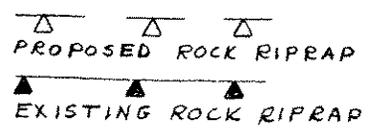
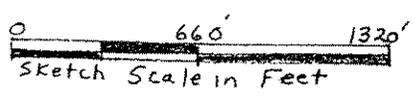


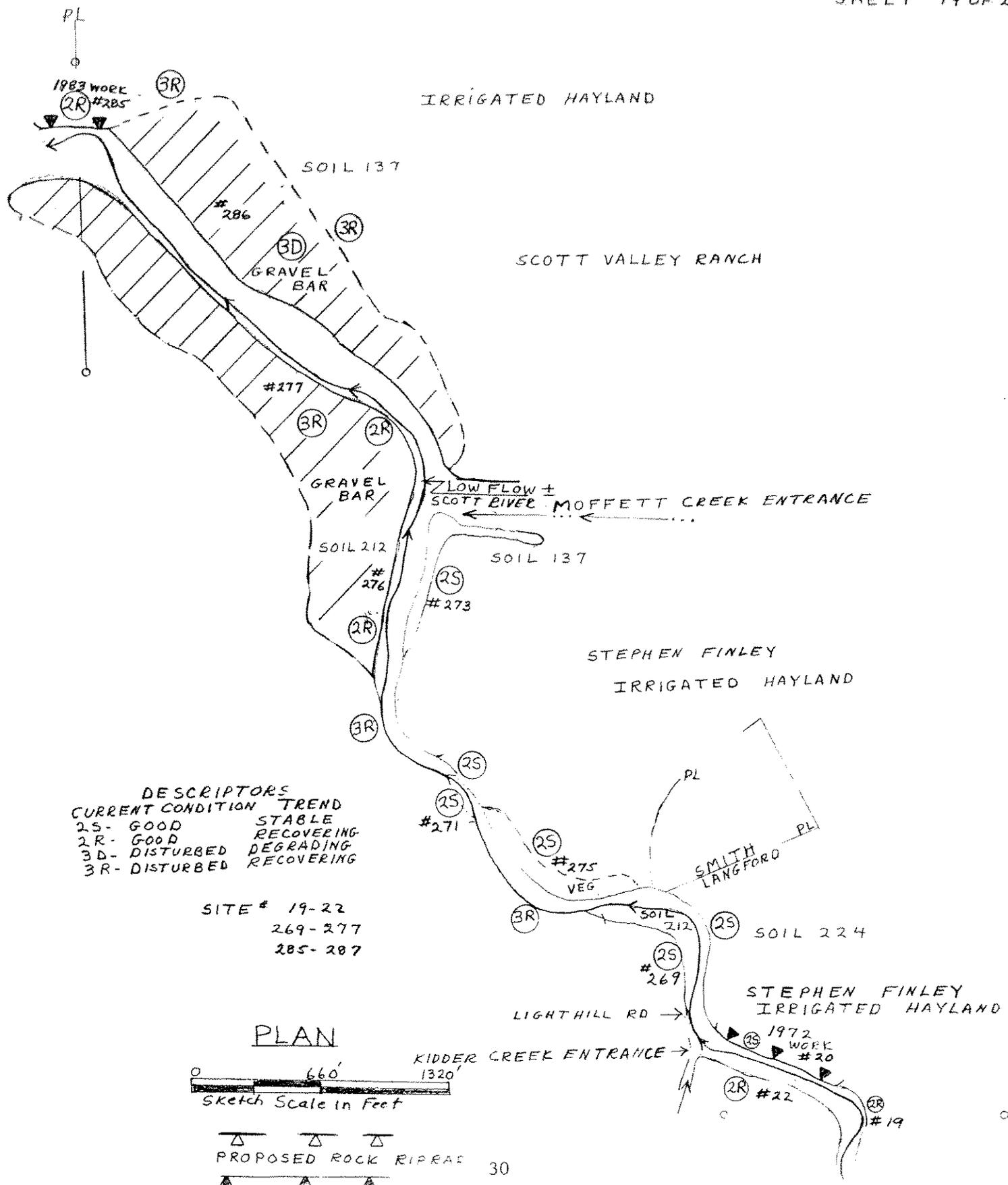
DESCRIPTORS

CURRENT CONDITION	TREND
1S - NEARLY PRISTINE	STABLE
2S - GOOD	STABLE
2R - GOOD	RECOVERING
3D - DISTURBED	DEGRADING

SITE # 1-19
 23-35
 38-48

PLAN

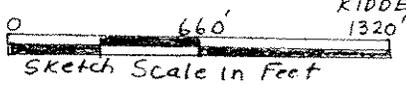




DESCRIPTORS
 CURRENT CONDITION TREND
 2S- GOOD STABLE
 2R- GOOD RECOVERING
 3D- DISTURBED DEGRADING
 3R- DISTURBED RECOVERING

SITE # 19-22
 269-277
 285-287

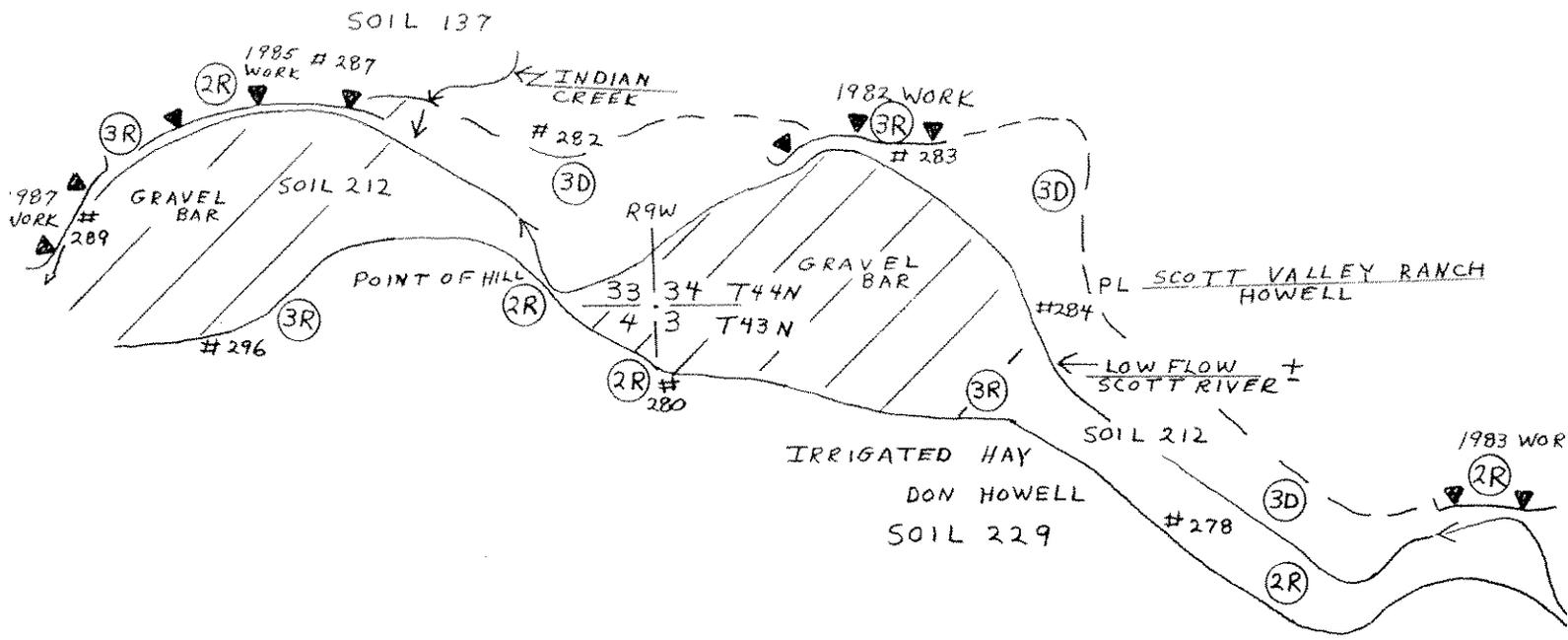
PLAN





SHEET # 15 OF 22
1971 FLIGHT

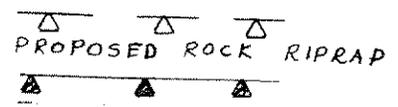
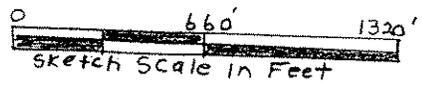
SCOTT VALLEY RANCH
IRRIGATED HAYLAND

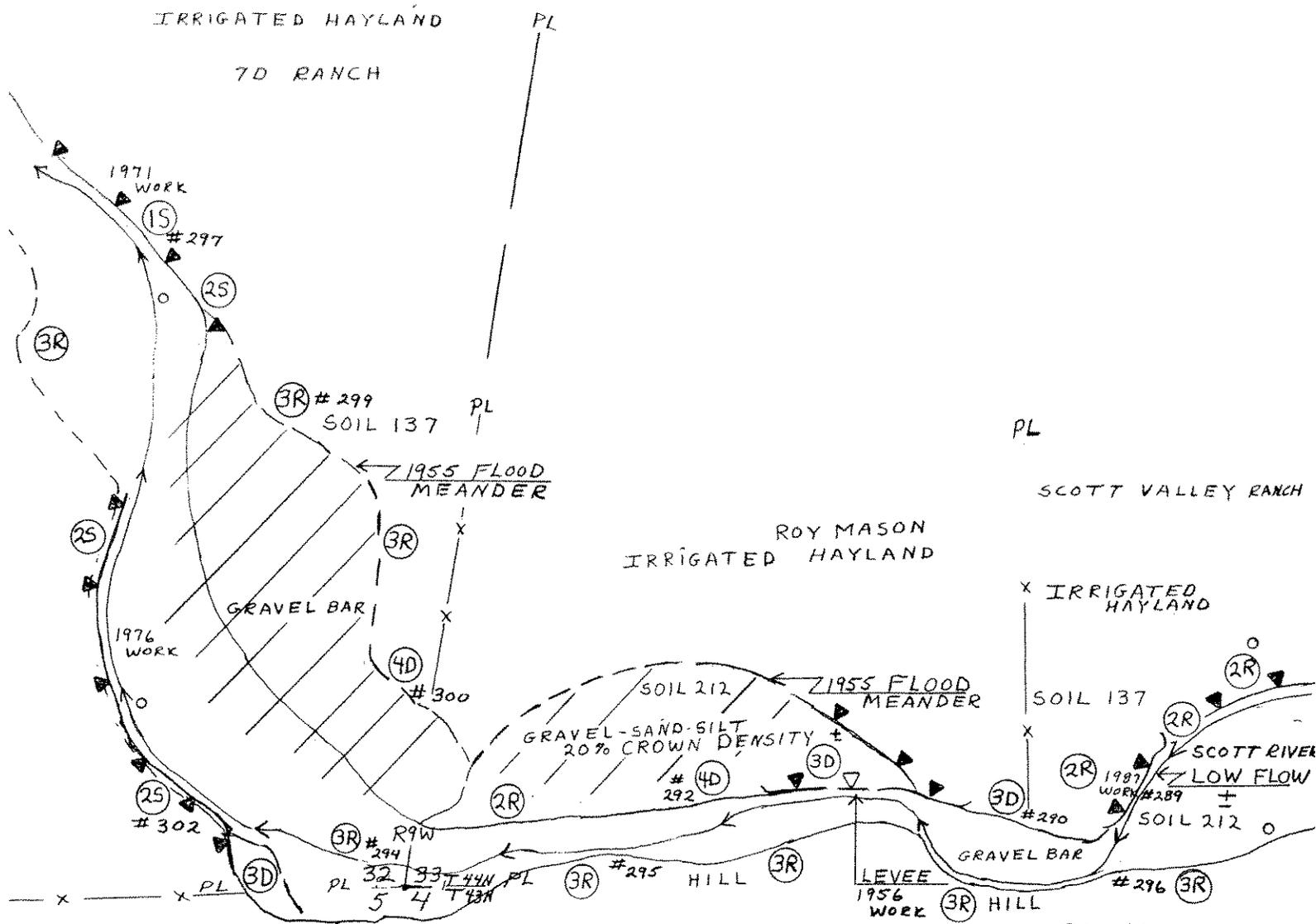


DESCRIPTORS	TREND
2R- GOOD	RECOVERING
3R- DISTURBED	RECOVERING
3D- DISTURBED	DEGRADING

SITE # 278- 284
288- 289
296

PLAN



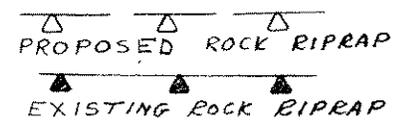
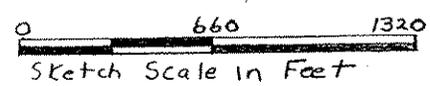


WESTERN AG SYSTEMS
IRRIGATED CROPLAND

DESCRIPTORS
CURRENT CONDITION TREND
15-NEARLY PRISTINE STABLE
25-GOOD STABLE
2R-GOOD RECOVERING
3R-DISTURBED RECOVERING
4D-DEGRADED DEGRADING

SITE # 290-295
297-301

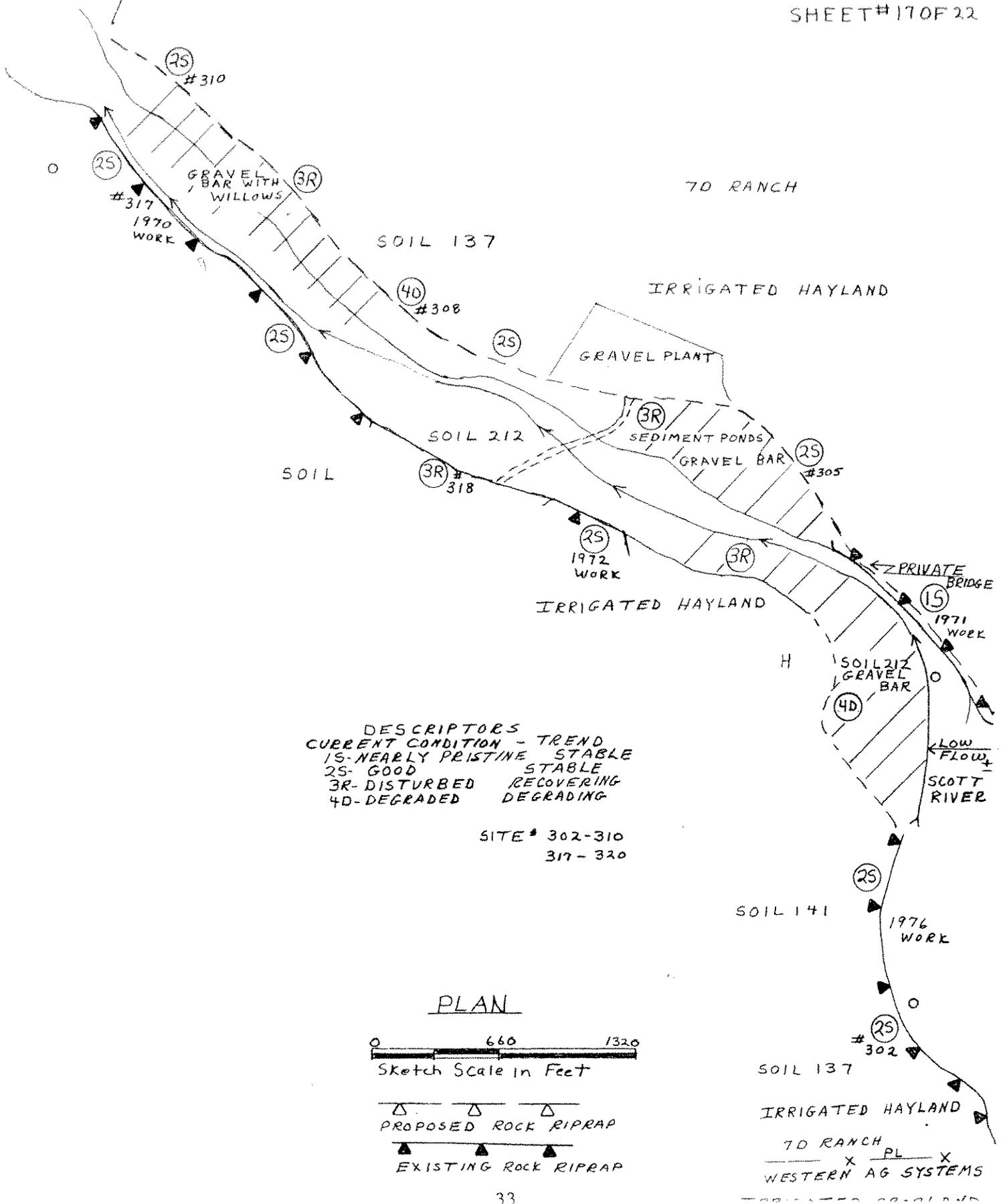
PLAN



DON BRAZIL



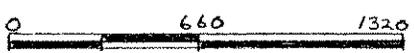
SHEET #170F22



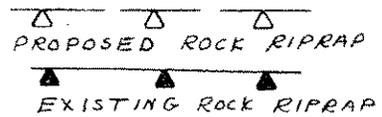
DESCRIPTORS
 CURRENT CONDITION - TREND
 1S-NEARLY PRISTINE STABLE
 2S-GOOD STABLE
 3R-DISTURBED RECOVERING
 4D-DEGRADED DEGRADING

SITE # 302-310
 317-320

PLAN



Sketch Scale in Feet



IRRIGATED HAYLAND
 70 RANCH
 WESTERN AG SYSTEMS

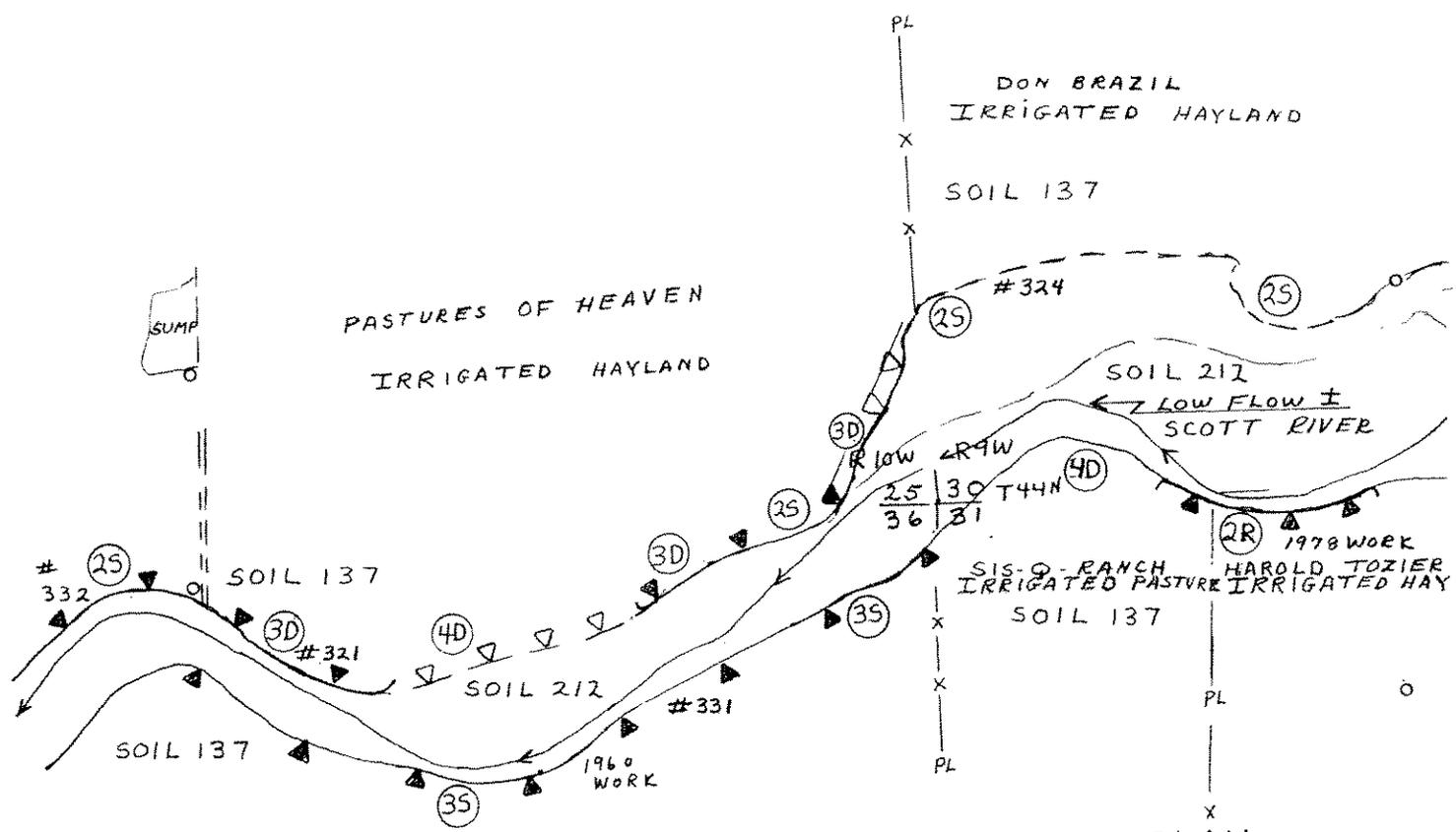


SHEET #190F22

DESCRIPTORS
 CURRENT CONDITION TREND
 2S- GOOD - STABLE
 2D GOOD - DEGRADING
 3D DISTURBED - DEGRADING
 4D DEGRADED DEGRADING

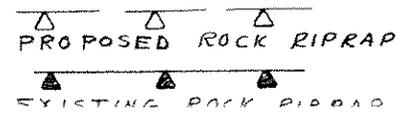
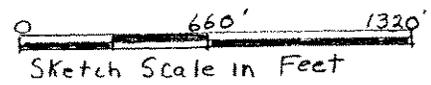
SITE # 321-324
 329-331

H-6608 SCOTT RIVER RD



HAROLD TOZIER
 IRRIGATED HAYLAND

PLAN

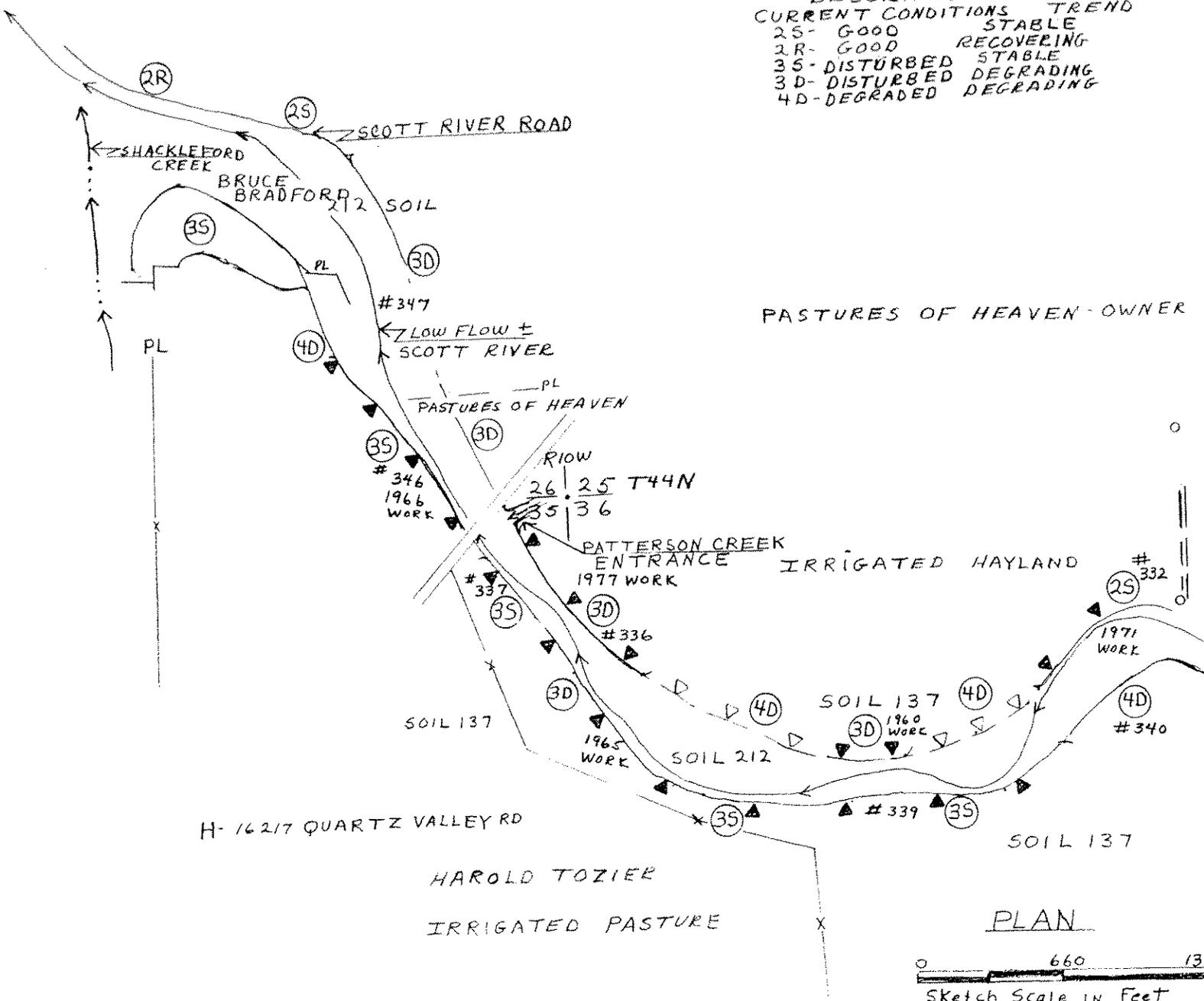




SHEET #20 OF 22

DESCRIPTORS

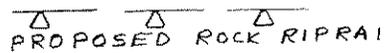
CURRENT CONDITIONS	TREND
2S- GOOD	STABLE
2R- GOOD	RECOVERING
3S- DISTURBED	STABLE
3D- DISTURBED	DEGRADING
4D- DEGRADED	DEGRADING



PLAN



Sketch Scale IN Feet

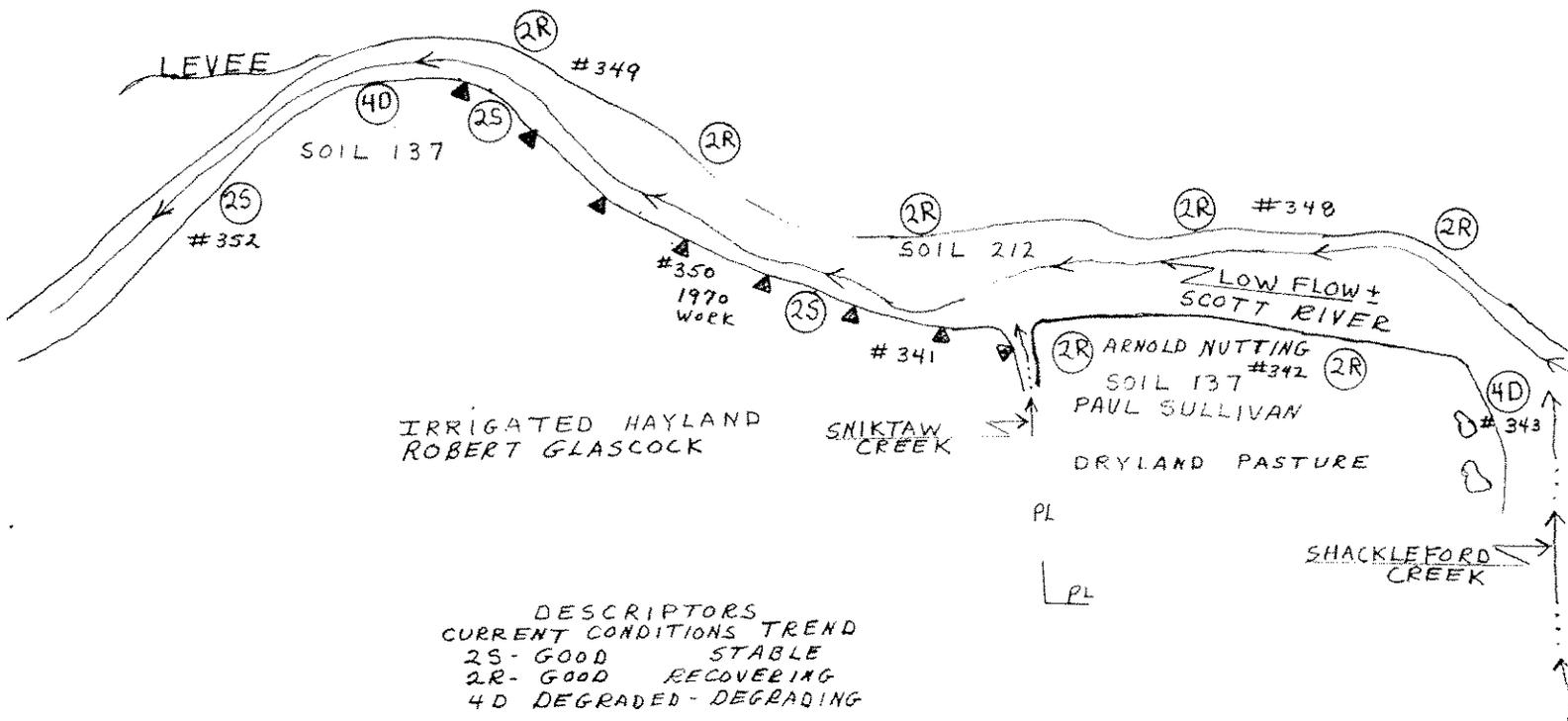


EXISTING ROCK RIPRAI

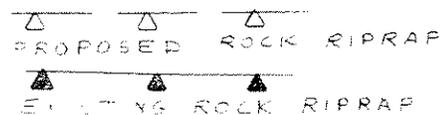
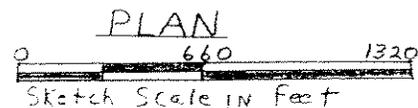
SITE # 332-340
344-348



SHEET #21 OF 2



SITE# 341-343
349-351



PRIORITY VALUES

All descriptor values assigned and practices recommended are from field observation and previous knowledge, experience, and expertise of the observer.

Descriptor Values:

- 4 - Current condition down = Disturbed, degraded, severely degraded
Trend down = degrading or severely degraded.
- 3 - Current condition up = nearly pristine or good
Trend down = degrading or severely degraded.
- 2 - Current condition down = Disturbed, degraded, severely degraded
Trend up = recovering or stable
- 1 - Current condition up = nearly pristine or good
Trend up - recovering or stable.

Adjoining Land Use:

- 5 - Pasture - 1) Adjoining land use is pasture, and livestock have access to river system, or 2) the site is fenced but livestock have access to the river system with resulting high impact on riparian system.
- 2 - Hayland with aftermath grazing - Aftermath grazing by livestock is the utilization of small grain straw and late summer - early fall growth of alfalfa stands. Livestock have access to river system during grazing period. Medium to low impact on riparian system.
- 1 - Hayland - Used primarily for the production of alfalfa hay in conjunction with rotation of small grains. Usually no livestock impacts. On some sites this practice occurs near to the top of the bank and limits the amount of growth area for riparian vegetation.
- 0 - Livestock exclusion - No livestock is allowed within the river system.

Practices:

- 3 -SP - Slope planting - Riprapped slopes with less than 50% cover density designated as high priority planting sites. (Refer to prescriptions #3).

- 3 - F - Fencing - Fencing is needed on one or more sites on ownership.
- 5 -BP - Bank Protection - Bank protection with large rock is needed on one or more sites on ownership. (Includes planting, fencing, and livestock exclusion).
- 2 - P - Tree and Shrub Planting - One or more sites on ownership recommended for planting.
- 2 - I - Irrigation - Irrigation system recommended for establishment and/or maintenance of riparian vegetation.
- 2 -LW - Well, pump, tank for livestock watering when livestock are excluded from river system.

Number value selected for recommended conservation practices are as follows:

- Five (5) = highest priority practice
- Four (4) = (none used)
- Three (3) = high priority practices but lower numbers used in evaluation to determine priority.

PRIORITY LIST

OWNER	DESCRIPTORS										* ALU	SP	F	BP	P	I	LW	TOTAL
	SITES R V1 V	SITES S V1 V	SITES D V1 V	#Si	V2	ATCT												
DAVIDSON, PAT	2 (1) 2	5 (1) 5 6 (2) 12	3 (4) 12	16	31	1.9	5	3	3	5	2	0	2	21.9				
PASTURES OF HEAVEN			7 (4) 28	9	30	3.3	5	3	3	5	2	0	0	21.3				
TOBIAS, QUENTIN	3 (1) 3	2 (1) 2	5 (4) 20	10	25	2.5	5	3	3	5	2	0	0	20.5				
HANNA BROS.	3 (1) 3	5 (2) 10	8 (4) 32	16	47	2.9	2	3	3	5	2	0	2	19.9				
NOAH, BUD		1 (1) 1 1 (2) 2	2	2	3	1.5	5	3	3	5	2	0	0	19.5				
RANCHO DEL SOL	3 (1) 3 2 (2) 4	5 (1) 5	3 (4) 12	13	24	1.8	5	2	3	5	2	0	0	18.8				
MASON RANCH	1 (1) 1 1 (2) 2 1 (1) 1		3 (4) 12	5	15	3.0	2	3	3	5	2	0	0	18.0				
BALL, TOM			1 (4) 4	2	5	2.3	5	3	3	0	2	2	0	17.3				
HORN, DOUG			6 (4) 24	6	24	4.0	5	3	3	0	0	0	2	17.0				
TOBIAS, QUENTIN	1 (1) 1		15 (4) 60	16	61	3.8	5	3	3	0	2	0	0	16.8				
BURTON, ERNEST	2 (1) 2	4 (1) 4	1 (4) 4	7	10	1.4	2	3	3	5	2	0	0	16.4				
BRYAN, MIKE	1 (1) 1	5 (1) 5 1 (2) 2	2 (4) 8	9	16	1.8	5	3	0	0	2	2	2	15.8				
RICHARD BARNES	8 (1) 8 1 (2) 2		1 (4) 4	10	14	1.4	5	3	0	5	0	0	0	14.4				
ISRAEL, LON	4 (1) 4 2 (2) 4	1 (1) 1	2 (4) 8	9	17	1.9	0	3	3	0	2	2	2	13.9				
DUNLAP, 7D	9 (2) 18	8 (1) 8	5 (4) 20	21	46	2.1	2	3	3	0	2	0	0	12.1				
HANSEN, WALTER	2 (1) 2 2 (2) 4	1 (4) 4	1 (4) 4	5	10	2.0	0	3	0	5	2	0	0	12.0				
BRAZIL, DON	3 (1) 3 1 (2) 2	4 (1) 4	2 (4) 8	10	17	1.7	5	3	0	0	0	0	2	11.7				
FOWLE, KEN	5 (1) 5 3 (2) 6	6 (1) 6	2 (4) 8	16	25	1.6	0	3	0	5	2	0	0	11.6				
MERLO, EDWARD	3 (1) 3 1 (2) 2		4	4	5	1.3	0	0	3	5	2	0	0	11.3				
AHR RANCH	6 (1) 6	5 (1) 5	1 (4) 4	12	15	1.3	2	3	3	0	2	0	0	11.3				
WALKER, BRUCE	8 (1) 8	9 (1) 9		17	17	1.0	2	3	3	0	2	0	0	11.0				
TOZIER, BEN	1 (1) 1	5 (2) 10	5 (4) 20	11	31	2.8	5	3	0	0	0	0	0	10.8				

PRIORITY LIST

OWNER	DESCRIPTORS												* ATCT	ALU	SP	F	BP	P	I	LW	TOTAL
	R	S	V ¹	V	D	V ¹	V	#S ⁱ	V ²	S ⁱ	V ¹	V									
GLASCOCK, ROBERT	3	(1)	3	3	(1)	3	1	(4)	4	7	10	10	1.4	2	3	3	0	0	0	9.4	
JAFAM CORP	7	(1)	7	1	(1)	1				10	12	12	1.2	0	3	3	0	2	0	9.2	
	2	(2)	4																		
TROUTMAN, HARVEY	1	(1)	1	1	(1)	1				2	2	2	1.0	0	3	3	0	2	0	9.0	
PIERSALL, JACK	2	(1)	2	8	(1)	8				10	10	10	1.0	0	0	5	2	0	0	8.0	
HAMMOND, CARL	1	(1)	1	1	(1)	1	1	(4)	4	2	5	5	2.5	2	0	3	0	0	0	7.5	
SCOTT VALLEY RANCH	5	(1)	5	4	(4)	16	4	(4)	16	13	29	29	2.2	0	3	0	0	2	0	7.2	
	4	(2)	8																		
HOWELL, DON	3	(1)	3	2	(4)	8	2	(4)	8	7	15	15	2.1	0	3	0	0	2	0	7.1	
	2	(2)	4																		
STEGALL BROS.	1	(1)	1	5	(1)	5	1	(4)	4	1	1	1	1.0	0	3	3	0	0	0	7.0	
WHIPPLE, KEITH	6	(1)	6	2	(2)	4	2	(3)	6	19	31	31	1.6	2	3	0	0	0	0	6.6	
	3	(2)	6	6	(1)	6															
FINLEY, STEVE	2	(1)	2	6	(1)	6				10	12	12	1.2	0	0	3	0	2	0	6.2	
	2	(2)	4																		
KRELL, WALTER	4	(1)	4	4	(1)	4				5	6	6	1.2	0	3	0	0	2	0	6.2	
	1	(2)	2																		
BARNES, GLENN	1	(1)	1	1	(1)	1				1	1	1	1.0	5	0	0	0	0	0	6.0	
SHUCK, VERNON	1	(1)	1	7	(1)	7				2	2	2	1.0	0	3	0	0	2	0	6.0	
LANGFORD, JAMES	1	(1)	1	1	(1)	1	1	(4)	4	9	12	12	1.3	0	0	3	0	0	0	4.3	
FINDLEY, STEVE	1	(1)	1	1	(1)	1	1	(4)	4	1	4	4	4.0	0	0	0	0	0	0	4.0	
HURLIMANN, ANDREW	1	(1)	1	1	(1)	1				1	1	1	1.0	3	0	0	0	0	0	4.0	
STARR, J.V.	1	(1)	1	1	(1)	1				2	2	2	1.0	0	3	0	0	0	0	4.0	
WELLS, SUSAN	1	(1)	1	6	(1)	6				1	1	1	1.0	0	3	0	0	0	0	4.0	
SEAVERS, CHARLES	1	(1)	1	1	(1)	1	1	(4)	4	7	7	7	1.0	0	0	0	0	2	0	3.0	
SULLIVAN, PAUL	1	(1)	1	1	(1)	1	1	(4)	4	2	5	5	2.5	0	0	0	0	0	0	2.5	
DEWITT, TOM	1	(1)	1	1	(1)	1				3	4	4	1.3	0	0	0	0	0	0	1.3	
	1	(2)	2																		
HOWARD, HARMAN	1	(1)	1	2	(1)	2				1	1	1	1.0	0	0	0	0	0	0	1.0	
FUHRER, STEVE				1	(1)	1				2	2	2	1.0	0	0	0	0	0	0	1.0	
SMITH, JACK	1	(1)	1	1	(1)	1				1	1	1	1.0	0	0	0	0	0	0	1.0	
NUTTING, ARNOLD	1	(1)	1	1	(1)	1				1	1	1	1.0	0	0	0	0	0	0	1.0	
BRADFORD, BRUCE	1	(1)	1	2	(1)	2				3	3	3	1.0	0	0	0	0	0	0	1.0	
CONNALLY/FAIRBANKS	1	(1)	1	1	(1)	1				1	1	1	1.0	0	0	0	0	0	0	1.0	

SCOTT RIVER RIPARIAN INVENTORY

PRIORITY LIST

<u>Descriptors</u>	<u>Value</u>	<u>*ALU = Adjoining Land Use</u>	<u>Value</u>
Current Condition Down and Trend Down	4	Pasture	5
Current Condition Up and Trend Down	3	Hayland w/aftermath grazing	2
Current Condition Down and Trend Up	2	Hayland	1
Current Condition Up and Trend Up	1	Livestock Exclusion	0
		Slope Planting - if one or more sites on ownership	3

Prescription Practices

- R = Recovering
- S = Stable
- D = Degrading
- V = Value
- V1= Descriptor Value
- V2= Total Descriptor Value
- #Si = Number of sites
- SP = Slope Planting
- F = Fencing
- BP = Bank Protection
- P = Tree & Shrub Planting
- I = Irrigation
- LW = Livestock Water

ATCT = Average Total Condition & Trend Total = Overall Total Value

Criteria - Crown cover and/or cover density = 50% or less.

OWNER	DESCRIPTORS										* ATCT	ALU	SP	F	BP	P	I	LW	TOTAL	
	R	V1	V	S	V1	V	D	V1	V	#Si										V2
AHR RANCH	6	(1)	6	5	(1)	5	1	(4)	4	12	15	1.3	2	3	3	0	2	0	0	11.3
BALL, TOM	1	(1)	1				1	(4)	4	2	5	2.3	5	3	3	0	2	2	0	17.3
BARNES, GLENN	1	(1)	1							1	1	1.0	5	0	0	0	0	0	0	6.0
RICHARD BARNES	8	(1)	8				1	(4)	4	10	14	1.4	5	3	0	5	0	0	0	1.4
	1	(2)	2				3	(4)	12	3	12	4.0	5	3	3	5	2	2	0	24.0
BLACK, DAVE	3	(1)	3	4	(1)	4	2	(4)	8	10	17	1.7	5	3	0	0	0	0	2	11.7
BRAZIL, DON	1	(2)	2																	
BRADFORD, BRUCE	1	(1)	1	2	(1)	2				3	3	1.0	0	0	0	0	0	0	0	1.0
BRYAN, MIKE	1	(1)	1	5	(1)	5	2	(4)	8	9	16	1.8	5	3	0	0	2	2	2	15.8
				1	(2)	2														

PRIORITY LIST

OWNER	DESCRIPTORS												LW	TOTAL						
	R	S	S	D	SITES	#SI	V2	ATCT	ALU	SP	F	BP			P	I				
BURTON, ERNEST	2	(1)	2	4	(1)	4	1	(4)	4	7	10	1.4	2	3	3	5	2	0	0	16.4
CONNALLY/FAIRBANKS	1	(1)	1							1	1	1.0	0	0	0	0	0	0	0	1.0
DAVIDSON, PAT	2	(1)	2	5	(1)	5	3	(4)	12	16	31	1.9	5	3	3	5	2	0	2	21.9
	6	(2)	12																	
DEWITT, TOM	1	(1)	1	1	(1)	1				3	4	1.3	0	0	0	0	0	0	0	1.3
	1	(2)	2																	
DUNLAP, 7D	9	(2)	18	8	(1)	8	5	(4)	20	21	46	2.1	2	3	3	0	2	0	0	12.1
FINLEY, STEVE				1	(4)	4				1	4	4.0	0	0	0	0	0	0	0	4.0
FINLEY, STEVE	2	(1)	2	6	(1)	6				10	12	1.2	0	0	3	0	2	0	0	6.2
	2	(2)	4																	
FOWLE, KEN	5	(1)	5	6	(1)	6	2	(4)	8	16	25	1.6	0	3	0	5	2	0	0	11.6
	3	(2)	6																	
FUHRER, STEVE	2	(1)	2							2	2	1.0	0	0	0	0	0	0	0	1.0
GLASCOCK, ROBERT	3	(1)	3	3	(1)	3	1	(4)	4	7	10	1.4	2	3	3	0	0	0	0	9.4
HAMMOND, CARL	1	(1)	1	1	(4)	4				2	5	2.5	2	0	3	0	0	0	0	7.5
HANNA BROS.	3	(1)	3	5	(2)	10	8	(4)	32	16	47	2.9	2	3	3	5	2	0	2	19.9
HANSEN, WALTER	2	(1)	2	1	(4)	4				5	10	2.0	0	3	0	5	2	0	0	12.0
	2	(2)	4																	
HORN, DOUG	1	(1)	1	6	(4)	24				6	24	4.0	5	3	3	0	0	0	2	17.0
HOWARD, HARMAN	3	(1)	3	2	(4)	8				1	1	1.0	0	0	0	0	0	0	0	1.0
HOWELL, DON	2	(2)	4							7	15	2.1	0	3	0	0	2	0	0	7.1
	1	(1)	1																	
HURLIMANN, ANDREW	1	(1)	1	4	(1)	4	8	(4)	32	1	1	1.0	3	0	0	0	0	0	0	4.0
HURLIMANN, JOE	2	(2)	4	2	(2)	4				17	45	2.6	5	3	3	5	2	0	2	22.6
	5	(1)	5	1	(1)	1	4	(4)	16	10	22	2.2	5	3	3	5	2	0	2	22.2
HURLIMANN, MARK	4	(1)	4	1	(1)	1	2	(4)	8	9	17	1.9	0	3	3	0	2	2	2	13.9
ISRAEL, LON	2	(2)	4																	
JAFAM CORP	7	(1)	7	1	(1)	1				10	12	1.2	0	3	3	0	2	0	0	9.2
	2	(2)	4																	
JENNER, G.A.	1	(1)	1	1	(1)	1	11	(4)	44	16	52	3.3	5	3	3	5	2	0	2	23.3
	3	(2)	6																	

PRIORITY LIST

OWNER	DESCRIPTORS												* ATCT	ALU	SP	F	BP	P	I	LW	TOTAL	
	R	S	D	V1	V	#S	V2	S	V1	V	D	V1										
KRELL, WALTER	4	(1)	4				5	6					1.2	0	3	0	0	2	0	0	6.2	
	1	(2)	2																			
LANGFORD, JAMES	1	(1)	1			1	9	12					1.3	0	0	3	0	0	0	0	0	4.3
MASON RANCH	1	(1)	1			3	5	15					3.0	2	3	3	5	2	0	0	0	18.0
	1	(2)	2																			
MERLO, EDWARD	3	(1)	3				4	5					1.3	0	0	3	5	2	0	0	0	11.3
	1	(2)	2																			
NOAH, BUD	1	(1)	1			1	2	3					1.5	5	3	3	5	2	0	0	0	19.5
	1	(2)	2																			
NUTTING, ARNOLD	1	(1)	1				1	1					1.0	0	0	0	0	0	0	0	0	1.0
PASTURES OF HEAVEN	2	(1)	2			7	9	30					3.3	5	3	3	5	2	0	0	0	21.3
PIERSALL, JACK	8	(1)	8				10	10					1.0	0	0	0	5	2	0	0	0	8.0
RANCHO DEL SOL	3	(1)	3			3	13	24					1.8	5	2	3	5	2	0	0	0	18.8
	2	(2)	4																			
SCOTT VALLEY RANCH	5	(1)	5			4	13	29					2.2	0	3	0	0	2	0	0	0	7.2
	4	(2)	8																			
SEAVERS, CHARLES	1	(1)	1				7	7					1.0	0	0	0	0	2	0	0	0	3.0
SHUCK, VERNON	1	(1)	1				2	2					1.0	0	3	0	0	2	0	0	0	6.0
SPENCER, JOHN	1	(1)	1			8	11	38					3.4	5	3	3	5	2	0	2	0	23.4
	1	(2)	2			1	3															
	1	(1)	1																			
STARR, J.V.	1	(1)	1				2	2					1.0	0	3	0	0	0	0	0	0	4.0
STEGALL BROS.	1	(1)	1				1	1					1.0	0	3	3	0	0	0	0	0	7.0
SMITH, JACK	1	(1)	1				1	1					1.0	0	0	0	0	0	0	0	0	1.0
SULLIVAN, PAUL	1	(1)	1			1	2	5					2.5	0	0	0	0	0	0	0	0	2.5
TOBIAS, QUENTIN	3	(1)	3			5	10	25					2.5	5	3	3	5	2	0	0	0	20.5
TOBIAS, QUENTIN	1	(1)	1			15	16	61					3.8	5	3	3	0	2	0	0	0	16.8
TOZIER, BEN	1	(1)	1			5	11	31					2.8	5	3	0	0	0	0	0	0	10.8
TROUTMAN, HARVEY	1	(1)	1				2	2					1.0	0	3	3	0	2	0	0	0	9.0
WALKER, BRUCE	8	(1)	8				17	17					1.0	2	3	3	0	2	0	0	0	11.0
WELLS, SUSAN	1	(1)	1				1	1					1.0	0	3	0	0	0	0	0	0	4.0
WHIPPLE, KEITH	6	(1)	6			1	19	31					1.6	2	3	0	0	0	0	0	0	6.6
	3	(2)	6			2	4	6														

LANDOWNER WILLINGNESS

Using a scale of 1 - 10, the landowners were asked to rate themselves on their willingness to participate in performing the recommended practices.

Low 1 - 4 Medium 5 - 7 High 8 - 10

Landowner List - ranked according to willingness to participate in project work.

HIGH - 71%	MEDIUM - 15%	LOW - 5%
AHR Ranch	Carl Hammond	Andrew Hurlimann
Tom Ball	Doug Horn	**Two(2)landowners
Rick Barnes	Mark Hurlimann	
Dave Black	G. A. Jenner	
Bruce Bradford	Mason Ranch	
Mike Bryan	J.V. Starr	
Ernest Burton	Bruce Walker	NO CONTACT - 9%
Linda Connolly	**One (1) landowner	
7D Ranch - Dunlap		Four (4)landowners
Steve Findley		were not contacted,
Steve Finley		one had no comment!
Ken Fowle		
Steve Fuhrer		
Robert Glascock		
Walter Hansen		
Harmon Howard		
Don Howell		
Lon Israel		
Jafam Corp		
Walter Krell		
Jim Langford		
Ed Merlo		
Arnold Nutting		
Pastures of Heaven		
Jack Piersall		
Rancho Del Sol		
Charles Seaver		
Vernon Shuck		
John Spencer		
Quentin Tobias		
Quentin Tobias *		
Ben Tozier		
Harvey Troutman		
Keith Whipple		
**Five (5) landowners		

* Quentin Tobias has two ownerships on the river and different recommendations.

** Landowners who rated their willingness but asked that their names not be printed.

PRESCRIPTIONS

1. The eroding river bank sites should be protected with large rock. Rock riprap bank protection is the only protective measure being used in the Scott River stream system. Due to the good performance of the existing installations on the Scott River and the availability of rock at an economical price, no other alternative solution was considered. In conjunction with this conservation practice, shrub and tree planting is a must, along with the exclusion of livestock.
2. The riparian vegetation established prior to 1970 will need management. Trim the older riparian to encourage new growth on the established root wad. Establish new plantings.
3. Riparian growth on the bank slopes provides habitat for food organisms, cover and shade for fish. On slope sites where growth was established prior to 1970, trimming should be done to encourage new growth. Establish new plantings in unshaded areas on the slope. Riprapped slopes with less than 50% cover density should be designated as high priority plantings sites.
4. The top of the bank area should be planted with taller species such as cottonwood, alder, poplar, golden willow and diamond willow. Irrigation will be needed for establishment. Livestock will be excluded.
5. Fencing to exclude livestock from riparian zones, and for establishment and maintenance of riparian vegetation is a high priority. Many landowners have excluded livestock and others have expressed their desire to exclude livestock by fence construction. Some landowners have expressed their unwillingness to exclude livestock from the river system. "Permanent" fence construction should be completed in sections in an effort to prohibit extensive damage during flood flows. Electric fence construction should be used to exclude livestock during periods of utilization of small grain straw and late summer-early fall growth of alfalfa stands.
6. Install well, pump and tank for livestock watering facilities. Existing irrigation wells could also be utilized as a water source. Solar powered pumps could be used in areas that do not have electricity available.
7. There should be an extensive and comprehensive management plan developed and implemented at the local level on the 30 miles of Scott River within the study area. A committee consisting of local landowners on the Scott River and representatives of the different governmental agencies should be formed. One item that this committee should have is responsibility to try and solve problems at a local level without outside intervention. This committee could provide leadership in securing funds for needed work. It could also be valuable serving as a liaison between landowners and the agencies or individuals with environmental concerns and restraints in regard to the performance of these prescriptions.

GLOSSARY

Aftermath grazing - The utilization of small grain straw and late summer - early fall regrowth of alfalfa by livestock grazing.

Hayland - land areas irrigated and used for the production of alfalfa and/or grass hays.

Meander line - Usually an old bank line that the channel flow has moved away from. Deposits of sand, gravel, and silt have been deposited in the area.

Pasture - Land areas irrigated and non-irrigated for the production of forage for livestock.

Piling-wire revetment - Wood poles drove into the channel bottom along the toe of the bank for posts that support heavy wire for revetment.

Riparian - Native and/or introduced species of vegetative growth on the banks and top of bank areas along water courses.

Rock Riprap - Imported material which ranges in size from 6" to 5', placed on streambanks to protect against erosion.

Root Wad - The existing root structure of riparian vegetation.

Slope - The area from the top of the streambank to the channel bottom (toe).

Species of concern - California poppy, Shasta Daisy, and Bank Swallows.

Toe - The area at the base of the bank slope and the channel bottom.

Federal Programs

Agricultural Conservation Program - ACP - Average annual funding is approximately \$50,000 to \$70,000. This is a "cost-share" program with the Federal portion ranging from 50 to 70 percent with an annual limit of \$3,500 per year per applicant. At 50% this would allow a \$7,000 project. Priorities for project selection are set annually by an elected committee. Emphasis has been placed on erosion control, water quality and wildlife for the last several years. Applicants must be considered "agricultural producers". Applications for projects are generally accepted in October of each year. Technical specifications from the Soil Conservation Service must be followed. Contact the local ASCS office for more information.

Agricultural Stabilization and Conservation Service - ASCS - This agency is part of the United States Department of Agriculture. ASCS has programs which offer funding for erosion control, fencing, and riparian plantings. The local ASCS office can be contacted at 215 Executive Ct., Suite B, Yreka, CA 96097.

California Department of Fish & Game - CDF&G - This state agency handles grants for the improvement of both fish and wildlife habitat.

Fisheries Restoration Grant Program - Program funds come from a variety of sources such as Propositions 70 and 99, Commercial Salmon Stamp Account and the Wildlife Conservation Board. These funds are available to public agencies, nonprofit organizations and Indian Tribes. Projects which will restore, enhance or preserve anadromous fisheries habitat are considered. It is strongly recommended that projects be reviewed by the local CDF&G biologist before submission. Specific information and format is required. Historically, grant applications are due in late March for funding in the following State fiscal year. Total availability of funds varies. For more information contact the Dept. of Fish & Game, P.O. Box 944209, Sacramento, CA. 94244-2090.

Klamath River Basin Fisheries Task Force - KRBFTF - Program funding is provided under P.L. 99-552 which provides 21 million dollars over a 20 year period (1986-2006) for anadromous fisheries habitat studies and enhancement projects within the Klamath River Basin. Funding priorities are guided by the KRBFTF Long Range Plan. These include education, fish protection and restoration, and habitat protection and restoration. Projects are rated by a technical advisory group and selected for funding by the KRBFTF. Priority is given to projects which employ unemployed fishermen, Indians and others who depend on the fishing industry for employment. Requests for proposals generally are released in mid-March. Grants are made to public agencies, nonprofit organizations, and Indian Tribes. For more information, contact the U.S. Fish and Wildlife Service at P.O. Box 1006, Yreka, CA 96097.

Siskiyou Resource Conservation District - RCD - Organized in Scott Valley in 1949 in accordance with division IX of the Public Resources Code for the State of California to help solve soil and water conservation problems. As a nonprofit organization, program funding is provided through grants from the KRBFTF and California Fish & Game. Recent projects have included riparian fencing, bank protection and restoration along the Scott River, erosion studies, a fish ladder on Etna Creek, and this riparian inventory of Scott River. The RCD also works with the schools in providing pamphlets and teaching tools to enhance their environmental curriculum. For more information, contact the Siskiyou RCD at P.O. Box 268, Etna, CA 96027, phone (916)467-3975.

Soil Conservation Service - SCS - This agency is part of the United States Department of Agriculture. SCS is primarily a consulting agency providing technical advice and design for conservation projects. The local office can be contacted at 215 Executive Ct. Suite A, Yreka, CA 96097.

U.S. Fish & Wildlife Service - USF&WS - This agency is part of the United States Department of the Interior. The USF&WS is concerned with wildlife and fisheries issues. They can be contacted at P.O. Box 1006, Yreka, CA 96097.

REFERENCES

- 1958 AERIAL FLIGHT. Reference in report as an indicator of riparian growth age. Scale - 1" = 200 feet. On file at Siskiyou Resource Conservation District (RCD) office, 450 Main Street, P.O. Box 268, Etna, CA 96027.
- 1971 AERIAL FLIGHT - Base Maps used for PLAN sheets #1 through #22. Scale - 1" = 660 feet. Aerial flight on file at Agricultural Stabilization and Conservation Service (ASCS) - 215 Executive Ct., Suite B, Yreka, CA 96097
- DATA BASE - RBASE - 1991 - 1992, on file at the Siskiyou RCD office, Etna, CA.
- ELEVATIONS - CROSS SECTIONS - Reference PLAN Sheets - On file at Soil Conservation Service (SCS) office, 215 Executive Ct., Yreka, CA 96097, and the Siskiyou RCD office, 450 Main, Etna, CA 96027. Information was used in the preparation of permit application for the installation of streambank protection and related projects on the Scott River. Also reference Dept. of Army Corp of Engineer general permit application on file at the Siskiyou RCD office, Etna, CA.
- ETNA QUADRANGLE - California - Siskiyou County - 15 minute series topographic - US Dept. of the Interior - Geological Survey. Printed in 1955 - Scale - 1" = 5208 feet.
- FEDERAL AND CALIFORNIA FUNDING AND TECHNICAL PROGRAMS - Phase II - Scott River Granitic Sedimentation Study - French Creek Subbasin Erosion Control Assessment - by U.S.D.A. Soil Conservation Service, Yreka Field Office - November 1991 - pages 30, 31, 32, 34.
- FORT JONES QUADRANGLE - California - Siskiyou County - 15 minute series - Topographic - U.S. Dept. of the Interior - Geological Survey - Printed in 1955 - Scale - 1" = 5208 feet.
- LAND OWNERSHIP - Sources. ASCS aerial flights, Siskiyou County Assessors office, parcel maps, and the SCS office records.
- QUALITATIVE SITE CONDITION ASSESSMENT material - Author and date unknown. Material is in report completed on Central Valley, CA, riparian systems.
- SOILS - USDA Soil Conservation Service. 1983 Soil Survey of Siskiyou County, California - Central part. Pages 32-33, 34, 35, 74, 80, 81, 84, maps #10, 18, 19, 26.

FIGURES

Figure 2.0

SCOTT RIVER RIPARIAN

QUALITATIVE SITE CONDITION ASSESSMENT

Qualitative site condition assessment of SCOTT RIVER riparian system.
 Condition: 1 = nearly pristine; 2 = good; 3 = disturbed;
 4 = degraded; 5 = severely degraded.
 Trend: R = recovering; S = stable; D = degrading.
 Amounts are in percentage.

CONDITION EVALUATION AND TREND SCORE

191 SITES LEFT BANK	1			2			3			4			5
	R	S	D	R	S	D	R	S	D	R	S	D	-
		1		29	23	1	9	9	17			11	-
182 SITES RIGHT BANK	1			2			3			4			5
	R	S	D	R	S	D	R	S	D	R	S	D	-
		1		26	29	.5	4	10	19		.5	10	-
373 SITES LEFT & RIGHT	1			2			3			4			5
	R	S	D	R	S	D	R	S	D	R	S	D	-
		1		27	26	1	8	9	18		.5	10	-

CURRENT CONDITION

1	2	3	4	5
Nearly Pristine	Good	Disturbed	Degraded	Severely Degraded
1	54	35	10	-

TREND

Recovering (R)	Stable (S)	Degrading (D)	Severely Degraded(5)
35	37	28	-

Figure 3.0

SCOTT RIVER RIPARIAN
AREA

ACRES	LEFT BANK	RIGHT BANK
ACRES TOTAL	102.04	97.90
ACRES FENCED	43.48	52.68
ACRES UNFENCED	58.56	45.22
ACRES FENCED-RIPRAP	17.61	18.89
ACRES COW EXCLUDED	35.91	39.91
LENGTH		
BANK - TOTAL MILES	29.71	29.57
FENCED - MILES	11.17	15.76
UNFENCED - MILES	18.54	13.81
RIPRAP - MILES	13.01	11.89
RIPRAP - FENCED - MILES	6.13	7.24
RIPRAP - UNFENCED - MILES	6.88	4.63
LOW WATER - MILES	16.68	14.82
LOW WATER FAILS - MILES	13.03	14.75
BANK - TOTAL FEET	156,878	156,136
FENCED - FEET	58,995	83,214
UNFENCED - FEET	97,883	72,922
RIPRAP - FEET	68,718	62,663
RIPRAP - FENCED - FEET	32,345	38,233
RIPRAP - UNFENCED - FEET	36,326	24,430
LOW WATER - FEET	88,085	78,227
LOW WATER FAILS - FEET	68,793	77,909

Figure 4.0

SCOTT RIVER RIPARIAN

DOMINANT SPECIES

TREEAGE

LEFT BANK 130 Sites		RIGHT BANK 108 Sites	
TREEAGE	SITES	TREEAGE	SITES
1	2	5	1
7	1	10	2
8	2	12	7
10	5	13	3
11	1	14	3
12	7	15	1
13	1	16	1
15	6	17	1
16	1	18	6
18	1	20	28
20	29	21	1
21	2	22	7
22	9	23	2
23	2	25	16
25	32	27	1
26	1	28	1
28	4	30	20
30	11	33	2
33	5	35	5
35	8	NA	74
NA	60		

68% of sites on the left bank and 58% of sites on the right bank have treeage indicated. Data came from estimate completed during fieldwork; comparing present vegetation with 1958 SCS land level aerial flight and calculating establishment date in conjunction with placement of large rock riprap.

Figure 5.0

SCOTT RIVER RIPARIAN

DOMINANT SPECIES

HEIGHT

LEFT BANK		RIGHT BANK	
ALDER	70 SITES	ALDER	57 SITES
FEET	SITES	FEET	SITES
10	3	4	1
12	3	10	1
14	1	12	2
15	19	13	1
18	2	15	7
20	15	18	4
25	11	20	19
28	1	23	1
30	9	24	1
35	1	25	9
40	1	30	5
45	1	33	1
50	3	35	2
NA	121	40	1
		45	1
		50	1
		NA	125
COTTONWOOD	32 SITES	COTTONWOOD	32 SITES
FEET	SITES	FEET	SITES
10	1	15	3
15	1	20	3
20	4	25	4
25	2	30	1
30	3	35	3
50	3	40	1
60	3	50	3
65	1	60	3
75	3	65	2
80	4	75	2
85	1	80	3
90	1	85	2
100	3	90	1
110	2	100	1

Figure 6.0

SCOTT RIVER RIPARIAN

DOMINANT SPECIES

HEIGHT

LEFT BANK		RIGHT BANK	
WILLOW	133 SITES	WILLOW	114 SITES
FEET	SITES	FEET	SITES
8	5	8	1
10	12	10	11
11	1	11	2
12	13	12	7
13	5	13	4
14	5	14	7
15	22	15	24
16	1	17	1
17	2	18	12
18	13	20	18
20	21	23	2
22	4	24	2
23	4	25	6
24	1	30	10
25	12	33	2
28	1	35	5
30	7	NA	68
35	4		
NA	58		

Willow height determined by actual measurement and/or estimate during field observation.

SPECIES

LEFT BANK			RIGHT BANK		
WILLOW	SPECIES		WILLOW	SPECIES	
SPECIES	SITES		SPECIES	SITES	
1	55	29%	1	47	25%
2	80	42%	2	68	37%
NA	56		NA	67	

Salix species - WESTERN BLACK WILLOW (Etna Var) is present by itself or is intermixed with SMOOTH WILLOW (F.J. Var). The SMOOTH WILLOW is used by the local Native Americans to create baskets.

Salix species - SMOOTH WILLOW (F.J. Var) is present by itself or is intermixed with WESTERN BLACK WILLOW (Etna Var).

Figure 7.0

SCOTT RIVER RIPARIAN

DOMINANT SPECIES

OTHER TREES

LEFT BANK		RIGHT BANK	
SPECIES	SITES	SPECIES	SITES
HAWTHORN av. 22'	41	HAWTHORN av 22'	40
GOLDEN WILLOW av. 25'	22	GOLDEN WILLOW av. 22'	15
WILD CHERRY	8	WILD CHERRY	14
LOCUST	2	LOCUST	2
ELDERBERRY	1	ELDERBERRY	2
WALNUT	1	WALNUT	1
WHITE OAK	1	WHITE OAK	1
MAPLE	1	RUSSIAN OLIVE	1
PINE	2	PINE	4
DOGWOOD av. 15'	1	BLACK OAK	1
		SILVER POPULAR	1
		QUAKING ASPEN	1

CROWN DENSITY

LEFT BANK		RIGHT BANK	
CROWNDENSITY %	SITES	CROWNDENSITY %	SITES
5	1	10	1
10	2	20	4
15	3	25	3
20	5	30	2
35	4	40	4
40	7	50	12
45	4	55	4
50	17	60	5
55	5	65	7
60	6	70	10
65	12	75	10
70	16	80	14
75	11	85	14
80	13	90	8
85	11	95	7
90	8	100	1
95	3		
NA	63	NA	76
AV 53%	TOTAL 128/ 67%	AV 59%	TOTAL 106/ 58%

Figure 8.0

SCOTT RIVER RIPARIAN

UNDERSTORY

GRASSES

LEFT BANK
Species

CHEATGRASS
FESCUE
FOXTAIL
MILLET
ORCHARDGRASS
RYE GRASS
SOFT CHESS
SQUIRREL TAIL
TIMOTHY
VELVET GRASS
WHEATGRASS

RIGHT BANK
Species

CHEATGRASS
FESCUE
FOXTAIL
MILLET
ORCHARDGRASS
RYE GRASS
SOFT CHESS
TIMOTHY
VELVET GRASS
WHEATGRASS

180 sites have an average
of 3 grasses per site with
average height of 2.2' +/-

184 sites have an average
of 3 grasses per site with
average height of 2.2' +/-

WILLOW

LEFT BANK
Species

Species	Sites
1	57
2	65
4	1
NA	68

RIGHT BANK
Species

Species	Sites
1	50
2	64
3	4
NA	64

Species

Diamond
Golden
Granis
Nana
Smooth
Western Black

Species

Diamond
Golden
Granis
Nana
Smooth
Western Black

Figure 9.0

SCOTT RIVER RIPARIAN

UNDERSTORY

WEEDS

LEFT BANK

RIGHT BANK

Species

Species

CANADA THISTLE
CHICKORY
DANDELION
DOG FENNEL
FIDDLE NECK
GOLDEN ROD
HEMLOCK
JERUSALEM OAK
KLAMATH WEED
LAMBS QUARTER
LEAFY SPURGE
MARLAHAN MUSTARD
MILK WEED
MORNING GLORY
MULLIN
MUSTARD
NETTLES
NIGHTSHADE
PIG WEED
PLANTON
PURPLE BLOSSOM THISTLE
RUSSIAN THISTLE
SHEPHARD PURSE
SOUR DOCK
TAR WEED
WHITE TOP
WILD LETTUCE
YELLOW STAR THISTLE

SAME AS LEFT BANK

181 sites have an average
of 5 weeds per site with
an average height of 2'.

184 sites have an average
of 5 weeds per site with
an average height of 2'.

Figure 10.0

SCOTT RIVER RIPARIAN

UNDERSTORY

BLACKBERRY

LEFT BANK		RIGHT BANK	
Species	Sites	Species	Sites
1	62	1	62
NA	129	NA	120

OTHER

LEFT BANK		RIGHT BANK	
Species	Sites	Species	Sites
ALDER	15	ALDER	8
CATTAIL	3	CATTAIL	1
CHOCHECHERRY	22	CHOCHECHERRY	8
CLEMATIS	27	CLEMATIS	22
COTTONWOOD	12	COTTONWOOD	2
CURRANT	31	CURRANT	28
GOLDEN WILLOW	4	GOLDEN WILLOW	7
		GRANIS WILLOW	1
HAWTHORN	14	HAWTHORN	12
		LOCUST	1
LOMBARDI POPULAR	1	LOMBARDI POPULAR	1
MAPLE	1		
MATRIMONY VINE	16	MATRIMONY VINE	24
		NANA WILLOW	1
OREGON GRAPE	3		
		QUAKEN ASPEN	1
RASPBERRY	1	RASPBERRY	5
ROSE BRUSH	51	ROSE BRUSH	27
SAGE BRUSH	7	SAGE BRUSH	13
SEDGES	32	SEDGES	29
		SILVER POPULAR	2
SNOWBRUSH	1	SNOW BRUSH	9
		STREAMCO WILLOW	1

Figure 11.0

SCOTT RIVER RIPARIAN

UNDERSTORY DENSITY

LEFT BANK		RIGHT BANK	
UNDERSTORY DENSITY %	SITES	UNDERSTORY DENSITY %	SITES
0	2	0	1
5	5	5	7
10	5	10	4
15	4	15	5
20	8	20	7
25	2	25	4
30	10	30	3
35	7	35	6
40	15	40	17
45	2	45	1
50	40	50	23
55	4	55	3
60	11	60	13
65	7	65	5
70	18	70	15
75	9	75	6
80	16	80	24
85	10	85	23
90	12	90	12
95	4	95	1
		100	2
TOTAL	191	TOTAL	182
AVERAGE	48%	AVERAGE	49%

OTHER UNDERSTORY GROWTH

LEFT BANK		RIGHT BANK	
Other Species	Sites	Other Species	Sites
ALFALFA	2	ALFALFA	0
BACHELOR BUTTON	1	BACHELOR BUTTON	1
CEREAL RYE	14	CEREAL RYE	24
CLOVER	3	CLOVER	2
MINT	4	MINT	1
SWEET CLOVER	49	SWEET CLOVER	48
TREFOIL	5	TREFOIL	6

SCOTT RIVER RIPARIAN ZONE INVENTORY FORM
PROJECT 91-HP-10

FIELD WORK SHEET #: 32 PLAN SHEET #: 13 DATE:

OWNER: AHR RANCH
OWNER: BURTON, ERNEST ** NOTE: "X" INDICATES YES **
OWNER:

LEFT OR RIGHT BANK?: LEFT ** DETERMINATION BASED ON FACING DOWN STREAM

FENCED?: X
LOW WATER FLOW?: X
LIVESTOCK ACCESS?:
LIVESTOCK EXCLUSION?: X
RIPRAP - LARGE ROCK?: X

LENGTH OF BANK 450 FT. X WIDTH 19 FT. = 8550 SQ.FT. = 0.20 AC.

DOMINANT SPECIES: AGE: 15 UNDERSTORY SPECIES:

NAME	HEIGHT	NAME	#VAR.	HEIGHT
ALDER	FT.	GRASSES	X 3	1-4 FT
COTTONWOOD	FT.	WILLOWS	X 2	1-3 FT
WILLOWS	X #VAR. 2 12 FT.	WEEDS	X 6	1-5 FT
OTHERS:		BLKBERRIES		FT
		OTHERS:		

CROWN DENSITY: 15% COVER DENSITY: 50%

POTENTIAL ACRES: 0.10 Ac.

COMMENTS: PESCUE, RYE GRASS, MILLET. CANADA THISTLE, MUSTARD, TAR WEED, HEMLOCK. NEEDS: LS EXCL., FENCING. TALL SPECIES PLANTING. LOW WATER FLOW FOR 150' OF SITE. MAINTAIN RIPRAP

CURRENT CONDITION: GOOD

CURRENT TREND: RECOVERING

PLANT OR ANIMAL SPECIES OF CONCERN?:

LAND OWNER #1 WILLINGNESS RATING (1-10)?: 10

LAND OWNER #2 WILLINGNESS RATING (1-10)?: 9

LAND OWNER #3 WILLINGNESS RATING (1-10)?:

RECOMMENDED PRACTICES: FENCING ; LIVESTOCK WATER ;
TREE PLANTING ; SHRUB PLANTING ;
;

MANAGEMENT RECOMMENDATIONS: MAINTAIN FENCE ; LIVESTOCK EXCLUSION ;
FIRE PROTECTION ;

Figure 13.0

Summary of Field Work

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
WALKER, BRUCE	1	13				X		left	GOOD	STABLE
WALKER, BRUCE	2	13		X		X		LEFT	GOOD	STABLE
WALKER, BRUCE	3	13		X		X		LEFT	GOOD	STABLE
WALKER, BRUCE	4	13		X		X	X	LEFT	GOOD	RECOVERING
WALKER, BRUCE	5	13				X		LEFT	GOOD	STABLE
WALKER, BRUCE	6	13				X		LEFT	GOOD	RECOVERING
WALKER, BRUCE	7	13		X		X	X	LEFT	GOOD	STABLE
WALKER, BRUCE AHR RANCH	8	13		X		X	X	LEFT	GOOD	RECOVERING
TROUTMAN, HARVEY SHUCK, VERNON	9	13	X	X			X	RIGHT	GOOD	RECOVERING
SHUCK, VERNON WALKER, BRUCE	10	13	X	X		X		RIGHT	NEARLY PRISTINE	STABLE
WALKER, BRUCE	11	13		X		X	X	RIGHT	GOOD	RECOVERING
WALKER, BRUCE	12	13		X		X	X	RIGHT	GOOD	RECOVERING
WALKER, BRUCE	13	13		X		X	X	RIGHT	GOOD	RECOVERING

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
WALKER, BRUCE	14	13		X		X	X	RIGHT	GOOD	STABLE
WALKER, BRUCE	15	13	X	X		X		RIGHT	GOOD	RECOVERING
WALKER, BRUCE	16	13				X		RIGHT	GOOD	STABLE
WALKER, BRUCE	17	13		X		X		RIGHT	GOOD	RECOVERING
WALKER, BRUCE	18	13				X		RIGHT	NEARLY PRISTINE	STABLE
FINLEY, STEVE	19	14				X		RIGHT	GOOD	RECOVERING
FINLEY, STEVE	20	14		X		X	X	RIGHT	GOOD	STABLE
	21	14								
AHR RANCH	22	14			X			LEFT	GOOD	RECOVERING
AHR RANCH	23	13		X	X		X	LEFT	GOOD	RECOVERING
AHR RANCH	24	13			X			LEFT	GOOD	STABLE
AHR RANCH	25	13		X	X		X	LEFT	GOOD	RECOVERING
AHR RANCH	26	13			X		X	LEFT	GOOD	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
AHR RANCH	27	13		X	X		X	LEFT	GOOD	STABLE
AHR RANCH	28	13		X	X			LEFT	GOOD	STABLE
AHR RANCH	29	13		X	X		X	LEFT	GOOD	RECOVERING
AHR RANCH	30	13		X	X			LEFT	GOOD	STABLE
AHR RANCH	31	13			X			LEFT	DISTURBED	DEGRADING
AHR RANCH BURTON, ERNEST	32	13	X	X		X	X	LEFT	GOOD	RECOVERING
BURTON, ERNEST	33	13	X	X		X		LEFT	GOOD	STABLE
BURTON, ERNEST	34	13	X			X		LEFT	GOOD	STABLE
BURTON, ERNEST	35	13	X	X		X	X	LEFT	GOOD	RECOVERING
BURTON, ERNEST SEAVER, CHARLES	36	12	X	X		X		LEFT	NEARLY PRISTINE	STABLE
STEGALL BROS	37	12	X	X		X	X	RIGHT	GOOD	RECOVERING
BURTON, ERNEST	38	13	X			X		RIGHT	GOOD	STABLE
BURTON, ERNEST	39	13	X	X		X		RIGHT	DISTURBED	DEGRADING

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
LANGFORD, JAMES	40	13	X	X		X		RIGHT	GOOD	STABLE
LANGFORD, JAMES	41	13	X	X		X	X	RIGHT	DISTURBED	DEGRADING
LANGFORD, JAMES	42	13	X	X		X		RIGHT	GOOD	STABLE
LANGFORD, JAMES	43	13	X	X		X	X	RIGHT	GOOD	STABLE
LANGFORD, JAMES	44	13	X	X		X		RIGHT	GOOD	STABLE
LANGFORD, JAMES	45	13	X	X		X	X	RIGHT	GOOD	RECOVERING
LANGFORD, JAMES	46	13	X	X		X		RIGHT	GOOD	STABLE
LANGFORD, JAMES	47	13	X	X		X	X	RIGHT	GOOD	STABLE
LANGFORD, JAMES TROUTMAN, HARVEY	48	13	X	X		X		RIGHT	GOOD	STABLE
PIERSALL, JACK	49	12	X			X	X	RIGHT	GOOD	RECOVERING
PIERSALL, JACK	50	12	X			X		RIGHT	GOOD	STABLE
PIERSALL, JACK	51	12	X	X		X	X	RIGHT	GOOD	STABLE
PIERSALL, JACK	52	12	X	X		X		RIGHT	GOOD	STABLE

*** "X" DENOTES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
PIERSALL, JACK	53	12	X	X		X		RIGHT	GOOD	STABLE
PIERSALL, JACK	54	12	X	X		X	X	RIGHT	GOOD	STABLE
PIERSALL, JACK	55	12	X	X		X	X	RIGHT	GOOD	STABLE
PIERSALL, JACK	56	12	X			X		RIGHT	GOOD	STABLE
PIERSALL, JACK	57	12	X	X		X	X	RIGHT	GOOD	RECOVERING
PIERSALL, JACK	58	12	X			X		RIGHT	GOOD	STABLE
PIERSALL, JACK	59	12	X			X		RIGHT	GOOD	STABLE
SEAYER, CHARLES	60	12		X		X		LEFT	GOOD	STABLE
SEAYER, CHARLES	61	12		X		X	X	LEFT	GOOD	RECOVERING
SEAYER, CHARLES	62	12				X		LEFT	GOOD	STABLE
SEAYER, CHARLES	63	12		X		X	X	RIGHT	GOOD	STABLE
SEAYER, CHARLES	64	12				X		LEFT	GOOD	STABLE
SEAYER, CHARLES	65	12		X		X	X	LEFT	GOOD	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
SEAVER, CHARLES	66	12		X		X		LEFT	GOOD	STABLE
TOBIAS, QUENTIN	67	12	X			X		LEFT	GOOD	RECOVERING
TOBIAS, QUENTIN	68	12	X	X		X	X	LEFT	GOOD	RECOVERING
TOBIAS, QUENTIN	69	12	X	X		X	X	LEFT	GOOD	RECOVERING
TOBIAS, QUENTIN	70	12		X	X		X	LEFT	DEGRADED	DEGRADING
TOBIAS, QUENTIN HANNA BROTHERS	71	11	X	X	X		X	LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	72	11	X	X	X			LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	73	11	X	X	X			LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	74	11	X		X			LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	75	11	X	X	X			LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	76	11	X	X	X		X	LEFT	DISTURBED	DEGRADING
HANNA BROTHERS	77	11	X	X	X			LEFT	DISTURBED	STABLE
HANNA BROTHERS	78	11	X	X	X		X	RIGHT	DISTURBED	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
HANNA BROTHERS	79	11	X		X			RIGHT	DISTURBED	STABLE
HANNA BROTHERS	80	11	X	X	X		X	RIGHT	DISTURBED	STABLE
HANNA BROTHERS	81	11	X		X			RIGHT	DISTURBED	STABLE
TOBIAS, QUENTIN	82	12	X	X		X	X	RIGHT	GOOD	STABLE
TOBIAS, QUENTIN	83	12	X	X		X	X	RIGHT	GOOD	STABLE
TOBIAS, QUENTIN	84	12	X	X	X			RIGHT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	85	12	X	X		X		RIGHT	DISTURBED	DEGRADING
HANNA BROTHERS	86	11	X		X			RIGHT	DISTURBED	DEGRADING
NOAH, BUD	87	11	X	X	X			RIGHT	GOOD	STABLE
NOAH, BUD	88	11	X		X		X	RIGHT	DISTURBED	STABLE
HURLIMANN, MARK HURLIMANN, A.	89	11	X	X	X		X	RIGHT	GOOD	STABLE
HURLIMANN, MARK HURLIMANN, A.	90	11			X			RIGHT	DISTURBED	DEGRADING
HURLIMANN, MARK HURLIMANN, A.	91	11	X	X	X		X	RIGHT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTENCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
HURLIMANN, MARK HANSEN, WALTER	92	11	X	X	X			RIGHT	DISTURBED	DEGRADING
HURLIMANN, MARK KRELL, WALTER	93	11		X	X	X	X	LEFT	GOOD	RECOVERING
HURLIMANN, MARK HURLIMANN, A.	94	11			X			LEFT	GOOD	RECOVERING
HURLIMANN, MARK HURLIMANN, A.	95	11		X	X		X	LEFT	GOOD	RECOVERING
HURLIMANN, MARK HURLIMANN, A.	96	11		X	X			LEFT	DISTURBED	DEGRADING
HURLIMANN, MARK HURLIMANN, A.	97	11		X	X			LEFT	DISTURBED	DEGRADING
HURLIMANN, MARK HURLIMANN, A. HANNA BROS.	98	11	X	X		X	X	LEFT	GOOD	RECOVERING
HANNA BROTHERS	99	11	X		X			LEFT	GOOD	RECOVERING
HANNA BROTHERS	100	11	X	X	X		X	LEFT	GOOD	RECOVERING
HANNA BROTHERS	101	11						LEFT	DISTURBED	DEGRADING
HURLIMANN, JOE	102	9	X	X	X		X	LEFT	DISTURBED	STABLE
HURLIMANN, JOE BLACK, DAVE	103	9	X	X	X			LEFT	DISTURBED	DEGRADING
HURLIMANN, JOE BLACK, DAVE DAVIDSON, PAT	104	9	X	X	X		X	LEFT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	PENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
DAVIDSON, PAT	105	10			X			LEFT	DISTURBED	STABLE
DAVIDSON, PAT	106	10		X	X		X	LEFT	GOOD	STABLE
DAVIDSON, PAT	107	10		X	X			LEFT	DISTURBED	STABLE
DAVIDSON, PAT	108	10			X			LEFT	DISTURBED	STABLE
DAVIDSON, PAT	109	10			X			LEFT	GOOD	RECOVERING
DAVIDSON, PAT	110	10		X	X		X	LEFT	GOOD	STABLE
DAVIDSON, PAT	111	10	X	X	X			LEFT	DISTURBED	STABLE
DAVIDSON, PAT	112	10	X	X		X	X	RIGHT	GOOD	STABLE
DAVIDSON, PAT	113	10	X			X		RIGHT	DISTURBED	STABLE
DAVIDSON, PAT	114	10		X	X		X	RIGHT	GOOD	RECOVERING
DAVIDSON, PAT	115	10			X			RIGHT	DISTURBED	STABLE
DAVIDSON, PAT	116	9		X	X			RIGHT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	PENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
DAVIDSON, PAT BLACK, DAVE HURLIMANN, JOE	117	9						RIGHT	DISTURBED	DEGRADING
HURLIMANN, JOE	118	9		X				RIGHT	DISTURBED	DEGRADING
HURLIMANN, JOE	119	9			X			RIGHT	DISTURBED	DEGRADING
HURLIMANN, JOE	120	9		X	X		X	RIGHT	GOOD	STABLE
HURLIMANN, JOE	121	9			X			RIGHT	GOOD	RECOVERING
HURLIMANN, JOE	122	9		X	X		X	RIGHT	GOOD	STABLE
HURLIMANN, JOE	123	9			X			RIGHT	DISTURBED	RECOVERING
HURLIMANN, JOE JENNER, G.A.	124	9		X	X		X	RIGHT	DISTURBED	DEGRADING
JENNER, G.A.	125	8			X			RIGHT	DEGRADED	DEGRADING
JENNER, G.A.	126	8		X	X			RIGHT	DISTURBED	DEGRADING
JENNER, G.A.	127	8			X			RIGHT	DISTURBED	DEGRADING
JENNER, G.A.	128	8			X		X	RIGHT	DISTURBED	DEGRADING
JENNER, G.A.	129	8			X			RIGHT	DISTURBED	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
JENNER, G.A.	130	8		X	X			RIGHT	DEGRADED	DEGRADING
JENNER, G.A.	131	8						RIGHT	DEGRADED	DEGRADING
JENNER, G.A.	132	8			X		X	LEFT	DISTURBED	DEGRADING
JENNER, G.A.	133	8			X			LEFT	DISTURBED	DEGRADING
JENNER, G.A.	134	8			X		X	LEFT	DISTURBED	STABLE
JENNER, G.A.	135	8		X	X			LEFT	DISTURBED	DEGRADING
JENNER, G.A.	136	8			X			LEFT	DEGRADED	DEGRADING
JENNER, G.A.	137	9	X	X		X	X	LEFT	GOOD	RECOVERING
JENNER, G.A.	138	9	X	X	X		X	LEFT	GOOD	STABLE
JENNER, G.A. HURLIMANN, JOE	139	9	X		X			LEFT	DISTURBED	STABLE
HURLIMANN, JOE	140	9	X		X			LEFT	DISTURBED	STABLE
HURLIMANN, JOE	141	9	X	X	X		X	LEFT	GOOD	STABLE
HURLIMANN, JOE	142	9	X		X		X	LEFT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW PLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
HURLIMANN, JOE FUHRER, STEVE	143	9	X	X	X			LEFT	GOOD	STABLE
FUHRER, STEVE	144	9	X	X		X	X	LEFT	GOOD	STABLE
SMITH, JACK	145	9	X	X		X		LEFT	GOOD	STABLE
BRYAN, MIKE JENNER, G.A.	146	8	X	X		X	X	RIGHT	GOOD	STABLE
BRYAN, MIKE	147	8	X			X		RIGHT	DEGRADED	STABLE
BRYAN, MIKE	148	8	X	X		X	X	RIGHT	GOOD	STABLE
BRYAN, MIKE	149	8	X			X		RIGHT	GOOD	RECOVERING
BRYAN, MIKE RANCHO DEL SOL	150	8	X	X		X	X	LEFT	GOOD	STABLE
BRYAN, MIKE	151	8	X			X		LEFT	DEGRADED	DEGRADING
BRYAN, MIKE	152	8	X			X	X	LEFT	GOOD	STABLE
BRYAN, MIKE JENNER, G.A.	153	8	X			X		LEFT	DEGRADED	DEGRADING
RANCHO DEL SOL	154	7	X	X		X	X	LEFT	GOOD	RECOVERING
RANCHO DEL SOL	155	7	X	X		X	X	LEFT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW PLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
RANCHO DEL SOL	156	7	X			X		LEFT	DEGRADED	DEGRADING
RANCHO DEL SOL	157	7	X	X		X	X	LEFT	GOOD	STABLE
RANCHO DEL SOL	158	7	X			X		LEFT	DISTURBED	STABLE
RANCHO DEL SOL	159	7		X	X			RIGHT	GOOD	STABLE
RANCHO DEL SOL	160	7	X	X			X	RIGHT	GOOD	STABLE
RANCHO DEL SOL	161	7	X					RIGHT	DISTURBED	RECOVERING
RANCHO DEL SOL	162	7	X	X			X	RIGHT	GOOD	RECOVERING
RANCHO DEL SOL	163	7						RIGHT	DISTURBED	RECOVERING
RANCHO DEL SOL	164	7	X			X	X	RIGHT	GOOD	RECOVERING
BRYAN, MIKE	165	8	X	X		X	X	RIGHT	GOOD	STABLE
RANCHO DEL SOL	166	7						LEFT	DEGRADED	DEGRADING
WHIPPLE, KEITH	167	7	X	X		X	X	RIGHT	GOOD	RECOVERING
WHIPPLE, KEITH	168	6	X			X	X	RIGHT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
WHIPPLE, KEITH	169	6	X			X	X	RIGHT	GOOD	STABLE
WHIPPLE, KEITH	170	6	X					RIGHT	DISTURBED	RECOVERING
WHIPPLE, KEITH	171	6	X			X		RIGHT	DISTURBED	RECOVERING
WHIPPLE, KEITH	172	6	X			X		RIGHT	GOOD	STABLE
WHIPPLE, KEITH	173	6	X	X		X	X	RIGHT	GOOD	DEGRADING
WHIPPLE, KEITH	174	6	X			X		LEFT	DISTURBED	RECOVERING
WHIPPLE, KEITH	175	6	X			X	X	LEFT	GOOD	STABLE
WHIPPLE, KEITH	176	6		X		X		LEFT	DISTURBED	DEGRADING
WHIPPLE, KEITH	177	6		X		X		LEFT	GOOD	DEGRADING
WHIPPLE, KEITH	178	6	X					LEFT	DISTURBED	STABLE
WHIPPLE, KEITH	179	6	X			X		LEFT	DISTURBED	STABLE
WHIPPLE, KEITH	180	6	X			X	X	LEFT	GOOD	RECOVERING
WHIPPLE, KEITH	181	6		X		X	X	LEFT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
WHIPPLE, KEITH	182	6		X		X	X	LEFT	GOOD	STABLE
WHIPPLE, KEITH	183	7		X		X	X	LEFT	GOOD	RECOVERING
WHIPPLE, KEITH	184	7				X	X	LEFT	GOOD	RECOVERING
WHIPPLE, KEITH RANCHO DEL SOL	185	7				X	X	LEFT	GOOD	STABLE
HORN, DOUG	186	6	X	X			X	LEFT	DISTURBED	DEGRADING
HORN, DOUG	187	6			X			LEFT	DISTURBED	DEGRADING
HORN, DOUG	188	6			X		X	LEFT	DISTURBED	DEGRADING
HORN, DOUG	189	6			X			RIGHT	DEGRADED	DEGRADING
HORN, DOUG	190	6		X	X		X	RIGHT	DISTURBED	DEGRADING
HORN, DOUG	191	5		X	X			RIGHT	DEGRADED	DEGRADING
ISRAEL, LON	192	5	X			X		RIGHT	GOOD	RECOVERING
ISRAEL, LON	193	5	X	X		X	X	RIGHT	DISTURBED	RECOVERING
ISRAEL, LON	194	5	X			X		RIGHT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
ISRAEL, LON	195	5	X	X		X	X	RIGHT	GOOD	RECOVERING
ISRAEL, LON	196	5	X					RIGHT	DISTURBED	RECOVERING
JAFAM CORP	197	5	X	X		X	X	LEFT	GOOD	RECOVERING
JAFAM CORP	198	5	X	X		X	X	LEFT	GOOD	RECOVERING
JAFAM CORP	199	5	X			X		LEFT	DISTURBED	RECOVERING
JAFAM CORP	200	5	X	X		X	X	LEFT	GOOD	STABLE
JAFAM CORP	201	5	X			X		LEFT	DISTURBED	RECOVERING
JAFAM CORP	202	5	X	X		X	X	LEFT	GOOD	RECOVERING
STARR, J.V.	203	5	X	X		X	X	LEFT	GOOD	RECOVERING
STARR, J.V.	204	5	X			X	X	LEFT	GOOD	STABLE
ISRAEL, LON	205	4		X			X	RIGHT	GOOD	STABLE
ISRAEL, LON	206	4						RIGHT*	DISTURBED	DEGRADING
ISRAEL, LON	207	5	X					RIGHT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW PLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
ISRAEL, LON	208	5	X	X		X	X	RIGHT	GOOD	RECOVERING
JAFAM CORP	209	5	X					LEFT	GOOD	RECOVERING
JAFAM CORP	210	4		X			X	LEFT	GOOD	RECOVERING
JAFAM CORP	211	4						LEFT	GOOD	RECOVERING
JAFAM CORP POWLE, KEN	212	4	X	X		X	X	LEFT	GOOD	RECOVERING
POWLE, KEN	213	4	X	X		X	X	LEFT	GOOD	STABLE
POWLE, KEN	214	4	X			X		LEFT	DISTURBED	RECOVERING
POWLE, KEN	215	4	X	X		X	X	RIGHT	GOOD	RECOVERING
POWLE, KEN	216	4	X			X		RIGHT	DISTURBED	RECOVERING
POWLE, KEN	217	4	X	X		X	X	RIGHT	GOOD	STABLE
POWLE, KEN	218	4	X	X		X		RIGHT	DISTURBED	RECOVERING
POWLE, KEN	219	4		X		X	X	RIGHT	GOOD	STABLE
POWLE, KEN	220	4	X			X	X	RIGHT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
FOWLE, KEN	221	4	X	X		X	X	RIGHT	GOOD	STABLE
FOWLE, KEN	222	4	X			X	X	RIGHT	GOOD	RECOVERING
FOWLE, KEN	223	4	X	X		X		RIGHT	DEGRADED	DEGRADING
FOWLE, KEN SPENCER, JOHN	224	4	X	X	X		X	RIGHT	DISTURBED	DEGRADING
SPENCER, JOHN	225	3						RIGHT	DISTURBED	DEGRADING
SPENCER, JOHN	226	3	X		X		X	LEFT	GOOD	DEGRADING
SPENCER, JOHN	227	3						LEFT	DISTURBED	DEGRADING
SPENCER, JOHN FOWLE, KEN	228	4					X	LEFT	GOOD	STABLE
FOWLE, KEN	229	4	X	X		X		LEFT	GOOD	RECOVERING
FOWLE, KEN	230	4	X	X		X	X	LEFT	GOOD	STABLE
TOBIAS, QUENTIN	231	3		X	X		X	RIGHT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	232	3			X			RIGHT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	233	3			X		X	RIGHT	DISTURBED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
TOBIAS, QUENTIN	234	3		X	X		X	RIGHT	GOOD	RECOVERING
TOBIAS, QUENTIN	235	3		X	X			RIGHT	DEGRADED	DEGRADING
SPENCER, JOHN	236	3			X			RIGHT	DEGRADED	DEGRADING
SPENCER, JOHN	237	3			X		X	RIGHT	DISTURBED	DEGRADING
SPENCER, JOHN	238	3						LEFT	DISTURBED	DEGRADING
SPENCER, JOHN	239	3			X		X	LEFT	DISTURBED	STABLE
SPENCER, JOHN	240	3			X			LEFT	DISTURBED	DEGRADING
SPENCER, JOHN	241	3		X	X			LEFT	SEVERLY DEGRADED	DEGRADING
TOBIAS, QUENTIN	242	3	X	X	X		X	LEFT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	243	3	X		X			LEFT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	244	3	X	X	X		X	LEFT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	245	3	X		X		X	LEFT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	246	2	X		X		X	LEFT	DEGRADED	DEGRADING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
TOBIAS, QUENTIN	247	2	X		X			LEFT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	248	2		X	X		X	RIGHT	GOOD	RECOVERING
HAMMOND, CARL	249	2			X			RIGHT	GOOD	RECOVERING
HAMMOND, CARL TOBIAS, QUENTIN	250	2		X	X		X	RIGHT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	251	2			X		X	RIGHT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	252	2			X			RIGHT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	253	3	X	X	X		X	LEFT	DISTURBED	DEGRADING
TOBIAS, QUENTIN	254	2	X		X		X	LEFT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	255	2			X			LEFT	DEGRADED	DEGRADING
TOBIAS, QUENTIN	256	2	X	X		X	X	LEFT	GOOD	RECOVERING
TOBIAS, QUENTIN	257	2	X			X	X	LEFT	DISTURBED	DEGRADING
BARNES, RICK	258	2		X	X			LEFT	GOOD	RECOVERING
BARNES, RICK	259	2	X	X	X		X	LEFT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
BARNES, RICK	260	1	X		X			LEFT	GOOD	RECOVERING
BARNES, RICK	261	1	X	X	X			LEFT	DISTURBED	DEGRADING
BARNES, RICK	262	1	X	X	X		X	LEFT	GOOD	RECOVERING
BARNES, RICK	263	1	X		X			RIGHT	GOOD	RECOVERING
BARNES, RICK	264	1	X		X			RIGHT	DISTURBED	RECOVERING
BARNES, RICK	265	1			X			RIGHT	GOOD	RECOVERING
BARNES, RICK BARNES, GLENN MERLO, EDWARD	266	1	X	X	X			LEFT	GOOD	RECOVERING
MERLO, EDWARD	267	1	X			X		LEFT	DISTURBED	RECOVERING
MERLO, EDWARD	268	1	X		X			LEFT	GOOD	RECOVERING
FINLEY, STEVE	269	14		X		X		LEFT	GOOD	STABLE
FINLEY, STEVE	270	14		X		X		LEFT	DISTURBED	RECOVERING
FINLEY, STEVE	271	14		X		X		LEFT	GOOD	STABLE
FINLEY, STEVE	272	14		X		X		LEFT	DISTURBED	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
FINELY, STEVE	273	14	X			X		RIGHT	GOOD	STABLE
FINLEY, STEVE	274	14	X	X		X	X	RIGHT	GOOD	STABLE
FINLEY, STEVE SMITH, EARNEST	275	14		X		X		RIGHT	GOOD	STABLE
FINLEY, STEVE McLAUGHLIN, JIM SCOTT VAL RANCH	276	14				X		LEFT	GOOD	RECOVERING
SCOTT VAL RANCH HOWELL, DON	277	14						LEFT	DISTURBED	RECOVERING
HOWELL, DON	278	15		X			X	LEFT	GOOD	RECOVERING
HOWELL, DON	279	15						LEFT	DISTURBED	RECOVERING
HOWELL, DON	280	15						LEFT	GOOD	RECOVERING
SCOTT VAL RANCH	281	15		X		X	X	LEFT	GOOD	RECOVERING
SCOTT VAL RANCH	282	15		X		X		RIGHT	DISTURBED	DEGRADING
SCOTT VAL RANCH	283	15		X		X	X	RIGHT	GOOD	RECOVERING
SCOTT VAL RANCH HOWELL, DON	284	14				X		RIGHT	DISTURBED	DEGRADING
HOWELL, DON	285	14		X		X	X	RIGHT	GOOD	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP BANK	CONDITION	TREND
HOWELL, DON SCOTT VAL RANCH	286	14				X	RIGHT	DISTURBED	DEGRADING
SCOTT VAL RANCH	287	15		X		X	X RIGHT	GOOD	RECOVERING
SCOTT VAL RANCH	288	15				X	RIGHT	DISTURBED	RECOVERING
SCOTT VAL RANCH	289	15		X		X	X RIGHT	GOOD	RECOVERING
SCOTT VAL RANCH MASON RANCH	290	16		X		X	RIGHT	DISTURBED	DEGRADING
MASON RANCH	291	16		X	X		X RIGHT	DISTURBED	DEGRADING
MASON RANCH	292	16			X		RIGHT	DEGRADED	DEGRADING
MASON RANCH	293	16			X		RIGHT	GOOD	RECOVERING
DUNLAP, 7D	294	16			X		LEFT	DISTURBED	RECOVERING
DUNLAP, 7D MASON RANCH SCOTT VAL RANCH	295	16		X		X	LEFT	DISTURBED	RECOVERING
SCOTT VAL RANCH	296	15				X	LEFT	DISTURBED	RECOVERING
DUNLAP, 7D	297	16		X			X RIGHT	NEARLY PRISTINE	STABLE
DUNLAP, 7D	298	16					X RIGHT	GOOD	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
DUNLAP, 7D	299	16	X			X		RIGHT	DISTURBED	RECOVERING
DUNLAP, 7D	300	16	X			X		RIGHT	DEGRADED	DEGRADING
DUNLAP, 7D	301	16	X					LEFT	DISTURBED	DEGRADING
DUNLAP, 7D	302	17		X		X	X	LEFT	GOOD	STABLE
DUNLAP, 7D	303	17						LEFT	DEGRADED	DEGRADING
DUNLAP, 7D	304	17						LEFT	DISTURBED	RECOVERING
DUNLAP, 7D	305	17						RIGHT	GOOD	STABLE
DUNLAP, 7D	306	17						RIGHT	DISTURBED	RECOVERING
DUNLAP, 7D	307	17					X	RIGHT	GOOD	STABLE
DUNLAP, 7D	308	17	X					RIGHT	DEGRADED	DEGRADING
DUNLAP, 7D	309	17	X					RIGHT	DISTURBED	RECOVERING
DUNLAP, 7D	310	17	X					RIGHT	GOOD	STABLE
BRAZIL, DON	311	18	X	X		X	X	RIGHT	GOOD	STABLE

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
BRAZIL, DON	312	18	X	X		X	X	RIGHT	GOOD	RECOVERING
BRAZIL, DON	313	18	X			X		RIGHT	GOOD	STABLE
BRAZIL, DON DUNLAP, 7D	314	18			X			LEFT	GOOD	STABLE
DUNLAP, 7D	315	18		X			X	LEFT	GOOD	RECOVERING
DUNLAP, 7D	316	18						LEFT	DISTURBED	DEGRADING
DUNLAP, 7D	317	17		X	X		X	LEFT	GOOD	STABLE
DUNLAP, 7D	318	17						LEFT	DISTURBED	RECOVERING
DUNLAP, 7D	319	17					X	LEFT	GOOD	STABLE
DUNLAP, 7D	320	17						LEFT	DISTURBED	RECOVERING
PASTURES HEAVEN	321	19	X	X	X		X	RIGHT	DISTURBED	DEGRADING
PASTURES HEAVEN	322	19	X		X		X	RIGHT	DEGRADED	DEGRADING
PASTURES HEAVEN	323	19	X		X		X	RIGHT	DISTURBED	DEGRADING
PASTURES HEAVEN BRAZIL, DON	324	19	X	X	X		X	RIGHT	GOOD	STABLE

*** "X" DESIGNATES EXISTENCE OR CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
BRAZIL, DON	325	18	X		X			RIGHT	GOOD	STABLE
BRAZIL, DON	326	18	X	X	X		X	RIGHT	DISTURBED	RECOVERING
BRAZIL, DON	327	18			X		X	LEFT	DEGRADED	DEGRADING
BRAZIL, DON TOZIER, BEN	328	18			X			LEFT	DEGRADED	DEGRADING
BRAZIL, DON BALL, TOM	329	19	X	X	X		X	LEFT	GOOD	RECOVERING
BALL, TOM	330	19						LEFT	DEGRADED	DEGRADING
TOZIER, BEN	331	19		X	X		X	LEFT	DISTURBED	STABLE
PASTURES HEAVEN	332	20	X	X	X		X	RIGHT	GOOD	STABLE
PASTURES HEAVEN	333	20	X		X			RIGHT	DEGRADED	DEGRADING
PASTURES HEAVEN	334	20	X	X	X		X	RIGHT	DISTURBED	DEGRADING
PASTURES HEAVEN	335	20	X	X	X			RIGHT	DEGRADED	DEGRADING
PASTURES HEAVEN	336	20	X	X	X		X	RIGHT	DISTURBED	DEGRADING
TOZIER, BEN	337	20		X	X		X	LEFT	DISTURBED	STABLE

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

OWNER NAMES	FIELD SHEET	PLAN SHEET	PENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
TOZIER, BEN	338	20		X	X		X	LEFT	DISTURBED	DEGRADING
TOZIER, BEN	339	20		X	X		X	LEFT	DISTURBED	STABLE
TOZIER, BEN	340	20		X	X			LEFT	DEGRADED	DEGRADING
GLASCOCK, ROBT	341	21	X	X		X	X	LEFT	GOOD	STABLE
SULLIVAN, PAUL	342	21						LEFT	GOOD	RECOVERING
SULLIVAN, PAUL BRADFORD, BRUCE	343	21						LEFT	DEGRADED	DEGRADING
TOZIER, BEN	344	20			X			LEFT	DISTURBED	STABLE
TOZIER, BEN	345	20			X			LEFT	DEGRADED	DEGRADING
TOZIER, BEN	346	20		X	X		X	LEFT	DISTURBED	STABLE
PASTURES HEAVEN BRADFORD, BRUCE	347	20			X			RIGHT	DISTURBED	DEGRADING
BRADFORD, BRUCE NUTTING, ARNOLD	348	20		X	X			RIGHT	GOOD	RECOVERING
GLASCOCK, ROBT	349	21		X	X			RIGHT	GOOD	RECOVERING
GLASCOCK, ROBT	350	21		X	X		X	LEFT	GOOD	RECOVERING

OWNER NAMES	FIELD SHEET	PLAN SHEET	PENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP	BANK	CONDITION	TREND
HURLIMANN, A.	364	1	X		X			RIGHT	GOOD	RECOVERING
MERLO, EDWARD	365	1	X		X			RIGHT	GOOD	RECOVERING
KRELL, WALTER	366	10				X		LEFT	DISTURBED	RECOVERING
KRELL, WALTER	367	10		X			X	LEFT	GOOD	RECOVERING
KRELL, WALTER	368	10				X	X	LEFT	GOOD	RECOVERING
KRELL, WALTER	369	10		X		X	X	LEFT	GOOD	RECOVERING
KRELL, WALTER DAVIDSON, PAT	370	10		X		X	X	LEFT	GOOD	RECOVERING
HANSON, WALTER	371	10	X			X		RIGHT	DISTURBED	RECOVERING
HANSON, WALTER	372	10	X	X		X	X	RIGHT	GOOD	RECOVERING
HANSON, WALTER	373	10	X	X		X	X	RIGHT	GOOD	RECOVERING
HANSON, WALTER	374	10	X	X		X		RIGHT	DISTURBED	RECOVERING

*** "X" DESIGNATES EXISTANCE OF CONDITION ***

APPENDIX A

Soil Characteristics

136-Diyou loam.

This very deep, somewhat poorly drained soil is on flood plains. It formed in alluvium derived from mixed rock sources. Slope is 1 to 2 percent. The vegetation in areas not cultivated is mainly perennial grasses, sedges, and other water-tolerant plants. Elevation is 2,000 to 4,000 feet. The average annual precipitation is about 18 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is dark grayish brown loam about 11 inches thick. The underlying material to a depth of 60 inches or more is stratified grayish brown, gray, and light olive gray sandy loam, sandy clay loam, and clay loam. In some areas the surface layer is sandy loam.

Included in this unit are small areas of Esro silt loam, Settlemeyer Variant silt loam, Stoner gravelly sandy loam, and Riverwash. Included areas make up about 15 percent of the total acreage.

Permeability of this Diyou soil is moderately slow. Available water capacity is high. Effective rooting depth is 60 inches or more. Runoff is slow, and the hazard of water erosion is slight. A seasonal high water table is at a depth of 24 to 36 inches from February through June. This soil is subject to flooding during prolonged, high-intensity storms. Damaging floods occur about 3 years out of 10. Channeling and deposition are common along streambanks.

This unit is used for cultivated crops, hay and pasture, and rangeland. This unit is suited to irrigated and nonirrigated wheat and barley. It is limited mainly by the seasonal high water table. Drainage can be provided by using tile systems to intercept water from higher lying areas.

Irrigation water must be applied carefully to prevent the development of a perched water table. Sprinkler irrigation is the most suitable method of applying water. To avoid overirrigating and leaching of plant nutrients, application of irrigation water should be adjusted to the available water capacity, the water intake rate, and the crop needs.

Returning all crop residue to the soil and using a cropping system that includes grasses, legumes, or grass-legume mixtures help to maintain fertility and tilth.

This unit is suited to irrigated hay and pasture. The main limitation is the seasonal high water table. Wetness limits the choice of plants and the period of cutting or grazing. Grasses and legumes that require good drainage can be grown if a deep tile drainage system is installed. Grazing when the soil is wet results in compaction of the surface layer, poor tilth, and excessive runoff. Proper grazing practices, weed control, and fertilizer are needed for maximum quality of forage.

This map unit is in capability unit 111w-2(21), irrigated and nonirrigated.

137-Diyou loam, drained.

This very deep, somewhat poorly drained soil is on flood plains. It formed in alluvium derived from mixed rock sources. Slope is 0 to 2 percent. The vegetation in areas not cultivated is mainly perennial grasses, sedges, and other water-tolerant plants. Elevation is 2,000 to 4,000 feet. The average annual precipitation is about 18 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is dark grayish brown loam about 11 inches thick. The underlying material to a depth of 60 inches or more is stratified grayish brown, gray, and light olive gray sandy loam, sandy clay loam, and clay loam. In some areas the surface layer is sandy loam.

Included in this unit are small areas of Esro silt loam, Settlemeyer Variant silt loam, Stoner gravelly sandy loam, and Riverwash. Included areas make up about 15 percent of the total acreage.

Permeability of this Diyou soil is moderately slow. Available water capacity is high. Effective rooting depth is 60 inches or more. Runoff is slow, and the hazard of water erosion is slight. A seasonal high water table is at a depth of 36 to 60 inches from February through June. This soil is subject to rare periods of flooding.

This unit is used for cultivated crops, hay and pasture, rangeland, and homesite development. The main crops are irrigated and nonirrigated wheat and barley.

This unit is suited to irrigated and nonirrigated crops commonly grown in the area. It is limited mainly by the seasonal high water table. Drainage can be provided by using tile systems to intercept water from higher lying areas.

Irrigation water must be applied carefully to prevent raising the water table. Sprinkler irrigation is the most suitable method of applying water. To avoid overirrigating and leaching of plant nutrients, application of irrigation water should be adjusted to the available water capacity, the water intake rate, and the crop needs.

Returning all crop residue to the soil and using a cropping system that includes grasses, legumes, or grass-legume mixtures help to maintain fertility and tilth.

This unit is suited to irrigated hay and pasture. The main limitation is the seasonal high water table. Grasses and legumes that require good drainage can be grown if a deep random tile system is installed. Proper grazing practices, weed control, and fertilizer are needed for maximum quality of forage. Grazing when the soil is wet results in compaction of the surface layer, poor tilth, and excessive runoff.

This map unit is in capability units 112-2(21), irrigated, and 111w-2(21), nonirrigated.

141-Dotta gravelly loam, 0 to 2 percent slopes.

This very deep, well drained soil is on alluvial fans. It formed in alluvium derived from mixed rock sources. The vegetation in areas not cultivated is mainly perennial grasses, shrubs, and forbs. Elevation is 2,000 to 3,500 feet. The average annual precipitation is about 18 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is dark grayish brown gravelly loam about 15 inches thick. The subsoil is dark grayish brown gravelly clay loam and dark brown gravelly sandy clay loam about 37 inches thick. The substratum to a depth of 62 inches or more is brown gravelly sandy clay loam.

Included in this unit are small areas of a soil that is similar to this Dotta soil but is mildly alkaline throughout and is calcareous in a few places. Included areas make up about 15 percent of the total acreage.

Permeability of this Dotta soil is moderately slow. Available water capacity is low to moderate. Effective rooting depth is 60 inches or more. Runoff is slow, and the hazard of water erosion is slight.

This unit is used for cultivated crops, hay and pasture, rangeland, and homesite development. The main crops are irrigated and nonirrigated wheat and barley.

This unit is suited to crops commonly grown in the area. It is limited mainly by the low to moderate available water capacity and the gravelly surface layer.

Furrow, border, corrugation, and sprinkler irrigation systems are suited to the soil in this unit. The method used generally is governed by the crop grown. Leveling is needed in sloping areas for the efficient application and removal of irrigation water. To avoid overirrigating and leaching of plant nutrients, applications of irrigation water should be adjusted to the available water capacity, the water intake rate, and the crop needs.

Returning all crop residue to the soil and using a cropping system that includes grasses, legumes, or grass-legume mixtures help to maintain fertility and tilth. Gravel in the surface layer causes rapid wear of equipment used for tillage.

This unit is suited to hay and pasture. It has few limitations. Proper grazing practices, weed control, and fertilizer are needed for maximum quality of forage.

This map unit is in capability units 11s-4(21), irrigated, and 111s-4(21), nonirrigated.

212-Riverwash.

This map unit is on the floodplains of major rivers throughout the survey area. It is flooded almost every year. It consists of unstabilized and stratified sandy, silty, clayey, stony, cobble, and gravelly sediment that is reworked by water about every year. It supports little or no vegetation. Slope is 0 to 5 percent. Drainage is excessive. Areas of this unit are subject to deposition when flooding occurs.

Included in this unit are small areas of Diyou loam, Rock outcrop, and soils that are covered with stones, and boulders. Included areas make up about 25 percent of the mapped acreage.

This unit is used for wildlife habitat and watershed. A few areas are mined for sand and gravel.

This map unit is in capability subclass Vlllw(21), nonirrigated.

222-Settlemeier loam, 0 to 2 percent slopes.

This very deep soil is on flood plains. It formed in alluvium derived from mixed rock sources. The vegetation in areas not cultivated is mainly perennial grasses, sedges, and other water-tolerant plants. Elevation is 2,000 to 4,000 feet. The average annual precipitation is about 15 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is gray loam about 10 inches thick. The next layer is gray fine sandy loam, loam, and silt loam about 34 inches thick. Below this to a depth of 66 inches is a buried surface layer or gray silt loam and sandy clay loam.

Included in this unit are small areas of Esro silt loam, Diyou loam, Stoner gravelly sandy loam, and Riverwash. Also included are areas, in Scott Valley, where precipitation is as much as 18 inches. Included areas make up about 15 percent of the total acreage.

Permeability of this Settlemeier soil is moderately slow. Available water capacity is high. Effective rooting depth is 60 inches or more. Runoff is slow, and the hazard of water erosion is slight. A seasonal high water table is at the surface from December through June but fluctuates between depths of 12 and 24 inches the rest of the year. This soil is subject to flooding about 3 years out of 10 during prolonged, high-intensity storms. Channeling and deposition are common along streambanks.

This map unit is in capability unit Vlw-2(21), irrigated and nonirrigated.

224-Settlemeier Varian silt loam.

This very deep, poorly drained soil is on alluvial fans. It formed in alluvium derived from mixed rock sources. Slope is 0 to 2 percent. The native vegetation is mainly perennial grasses, sedges,

and other water-tolerant plants. Elevation is 2,000 to 3,000 feet. The average annual precipitation is about 18 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is very dark gray and dark gray silt loam about 19 inches thick. The subsoil is dark gray, light olive gray, and olive gray silty clay loam about 49 inches thick. It is mottled with black, olive brown, light olive brown, olive gray, and olive. The substratum to a depth of 80 inches is greenish gray gravelly clay loam.

Included in this unit are small areas of a soil that is similar to this Settlemeier Variant soil but is covered by sandy loam overwash 5 to 15 inches thick. Also included are small areas of soils that have slopes of as much as 9 percent. Included areas make up about 15 percent of the total acreage.

Permeability of this Settlemeier Variant soil is slow. Available water capacity is high to very high. Effective rooting depth is 60 inches or more. Runoff is very slow. A seasonal high water table is at a depth of 0 to 18 inches from December through March.

This unit is used for hay and pasture and as rangeland.

This unit is suited to irrigated hay and pasture. The main limitation is the high water table. Grasses and legumes that require good drainage can be grown if a deep tile drainage system is installed. Proper grazing practices, weed control, and fertilizer are needed for maximum quality of forage. Grazing when the soil is wet results in compaction of the surface layer, poor tilth, and excessive runoff.

Sprinkler irrigation is the most suitable method of applying water. Irrigation water must be applied carefully to prevent the development of a perched water table.

This map unit is in capability unit 111w-2(21), irrigated and nonirrigated.

229-Stoner gravelly sandy loam, 0 to 2 percent slopes.

This very deep, well drained soil is on alluvial fans. It formed in alluvium derived from mixed rock sources. The vegetation in areas not cultivated is mainly perennial grasses, forbs, and shrubs. Elevation is 2,000 to 4,000 feet. The average annual precipitation is about 18 inches, the average annual air temperature is about 50 degrees F, and the average frost-free period is about 125 days.

Typically, the surface layer is brown gravelly sandy loam about 122 inches thick. The upper 24 inches of the subsoil is brown and light yellowish brown gravelly sandy loam. The lower 24 inches is strong brown very gravelly loam.

Included in this unit are small areas of Bonnet gravelly loam, Dotta gravelly loam, Diyou loam, soils that are highly stratified with layers of various textures, and Riverwash. Included areas make up about 15 percent of the total acreage.

Permeability of this Stoner soil is moderate. Available water capacity is low or moderate. Effective rooting depth is 60 inches or more. Runoff is slow, and the hazard of water erosion is slight.

This unit is used for cultivated crops, hay and pasture, rangeland, and homesite development.

This unit is suited to irrigated and nonirrigated wheat and barley. It is limited mainly by the gravelly surface layer. Gravel in the surface layer causes rapid wear of equipment used for tillage.

In summer, irrigation is required for maximum production of most crops. Furrow, border, corrugation, and sprinkler irrigation systems are suited to this unit. The method used generally is governed by the crop grown. Leveling is needed in sloping areas for the efficient application and removal of irrigation water. To avoid overirrigating and leaching of plant nutrients, applications of irrigation water should be adjusted to the available water capacity, the water intake rate, and the crop needs.

Returning all crop residue to the soil and using a cropping system that includes grasses, legumes, or grass-legume mixtures help to maintain fertility and tilth.

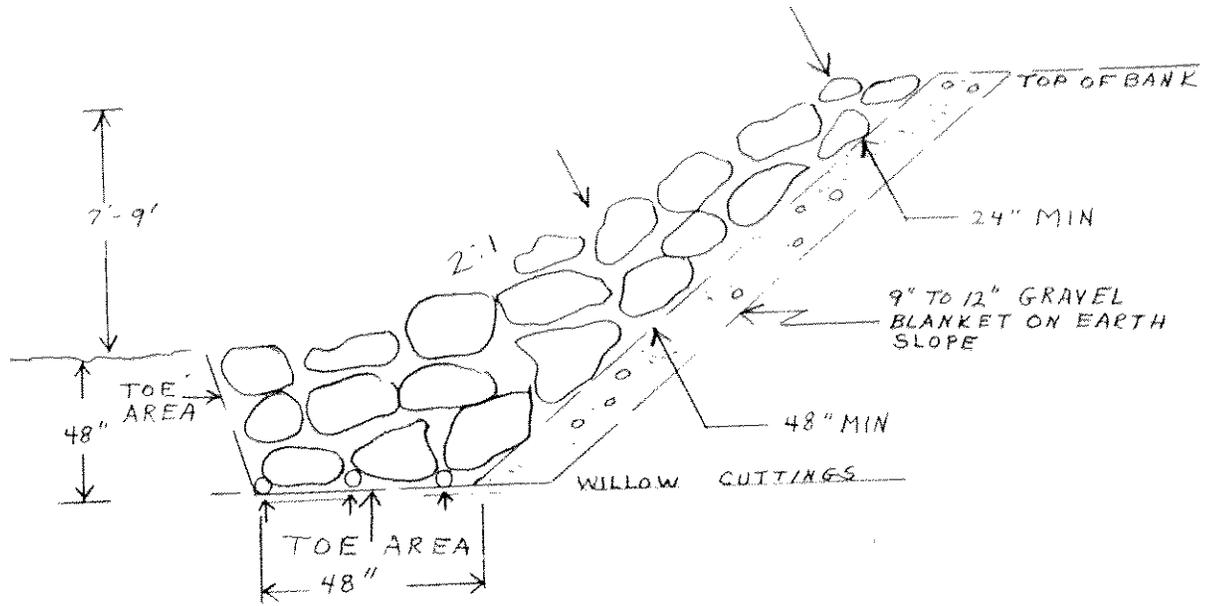
This unit is suited to hay and pasture. It has few limitations. Proper grazing practices, weed control, and fertilizer are needed for maximum quality of forage. Irrigation water can be applied by the border and sprinkler methods.

This map unit is in capability unit 111s-4(21), irrigated and nonirrigated.

APPENDIX B

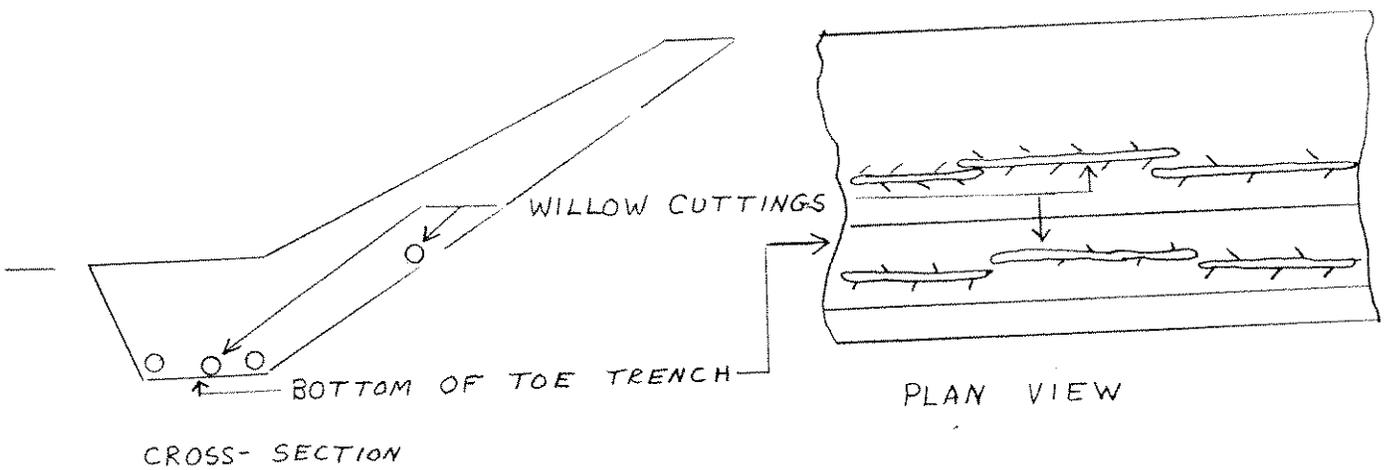
BANK PROTECTION

ROCK RIPRAP



TYPICAL ROCK RIPRAP CROSS-SECTION

2.5 CUBIC YARDS/LINEAR FOOT



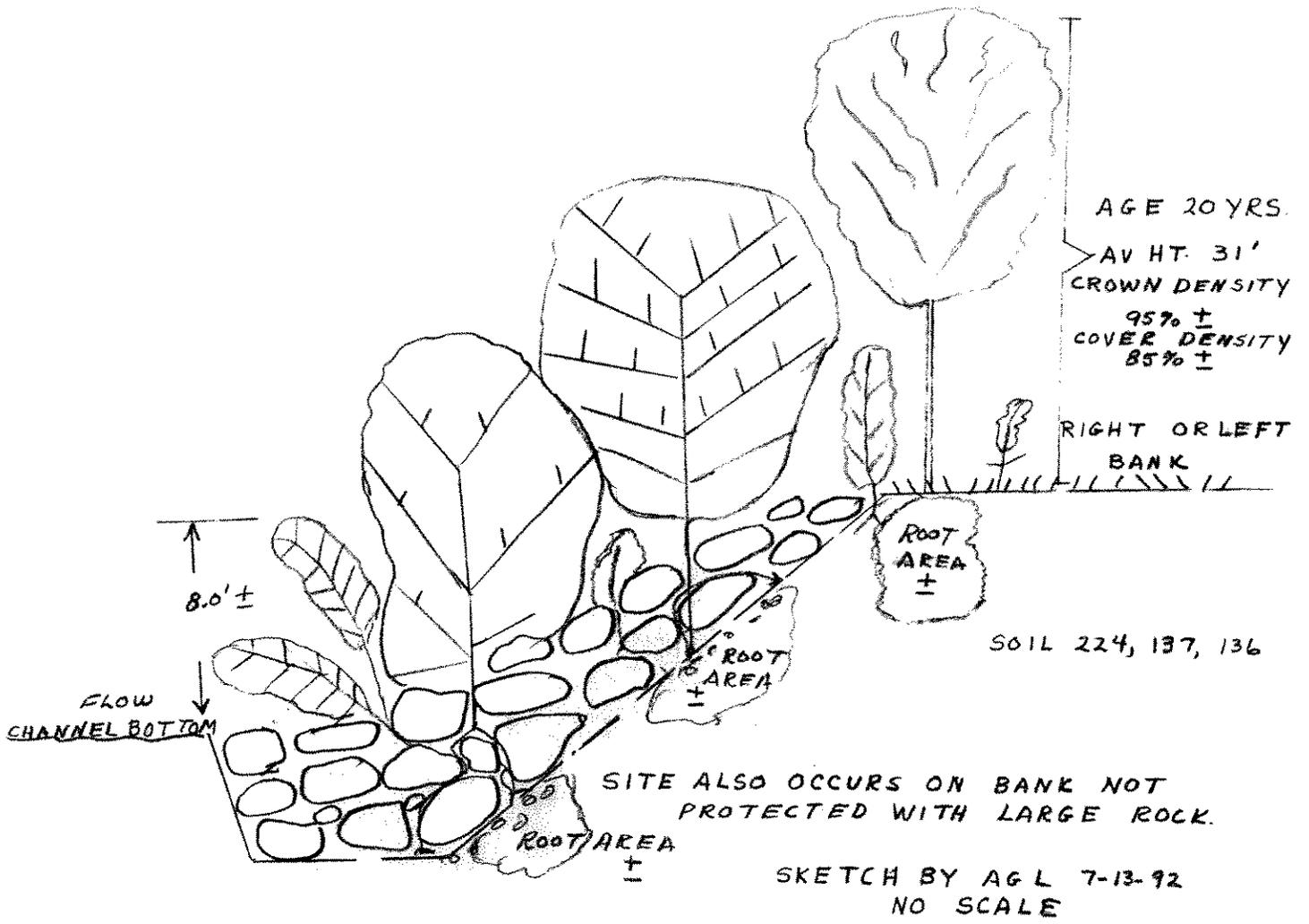
Willow Plantings (Not to Scale)

Willow cuttings will be placed in the toe trench prior to placing rock riprap. Branches will be layed end to end and be continuous throughout the length of the toe trench.

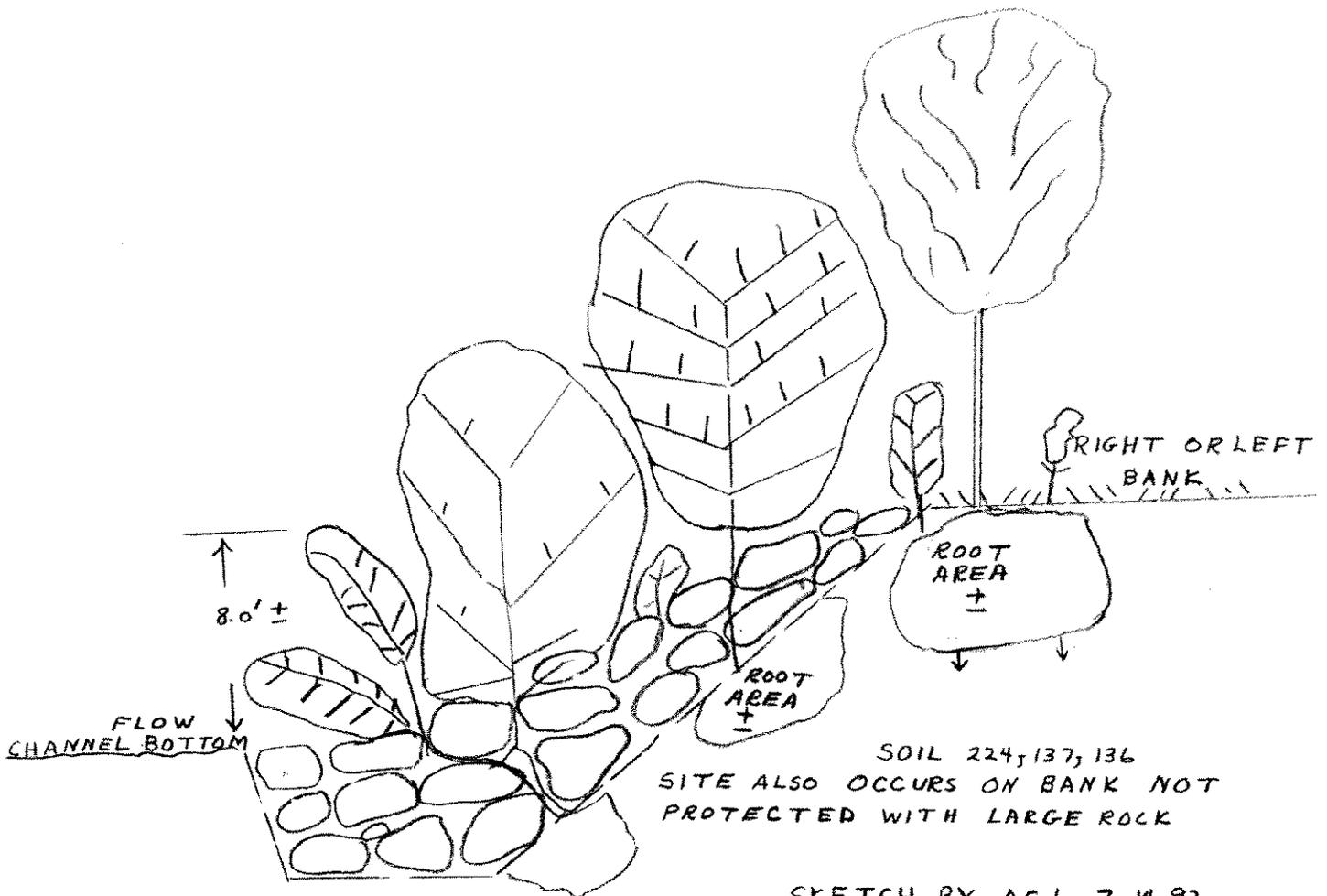
Purpose: Prevent Streambank Erosion

APPENDIX C

DESCRIPTOR-CURRENT CONDITION
NEARLY PRISTINE



DESCRIPTOR- CURRENT CONDITION
GOOD
TREND- RECOVERING OR STABLE

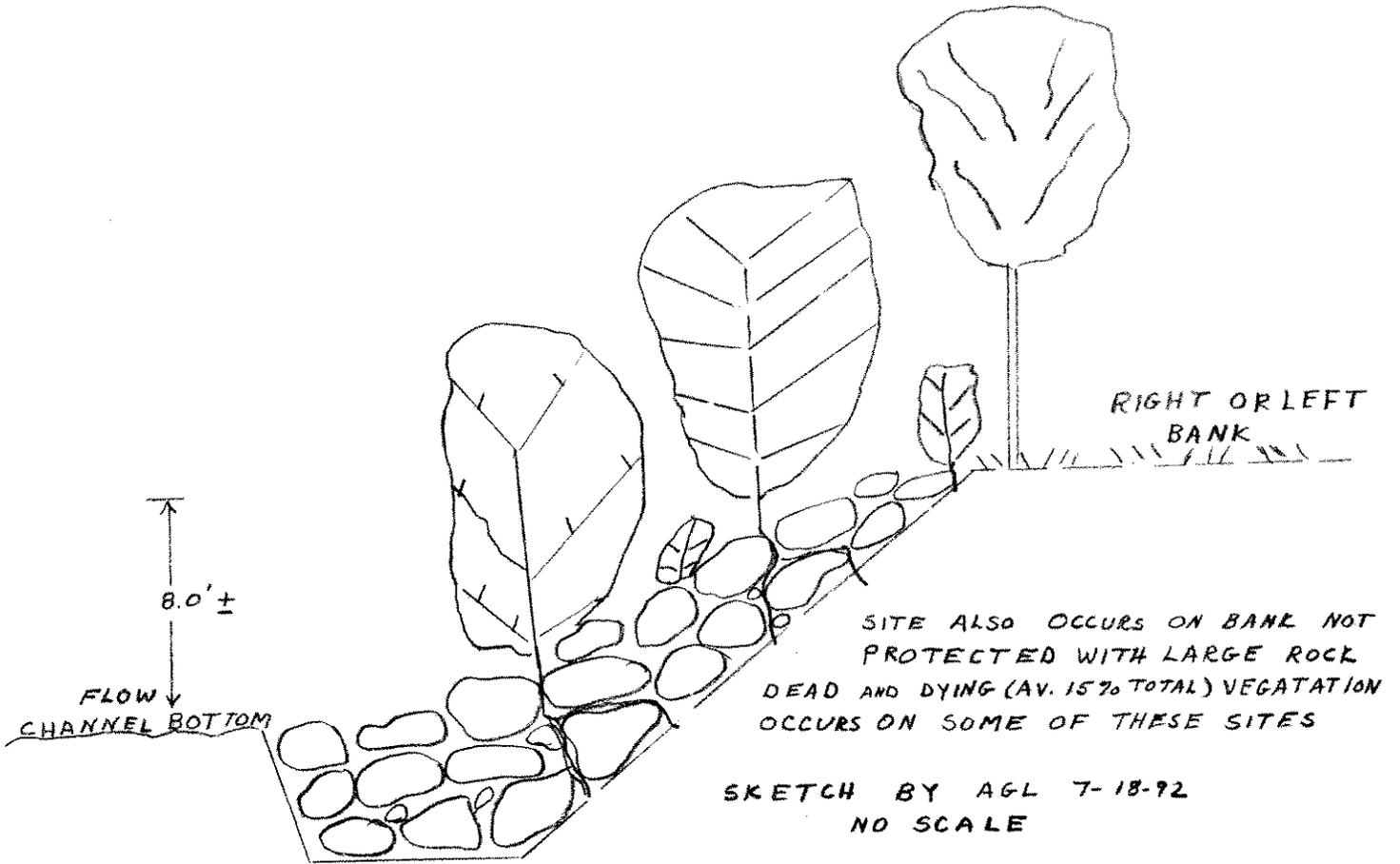


SKETCH BY AGL 7-14-92
NO SCALE

GOOD- RECOVERING
AV. TREEAGE - 18 YEARS
AV. CROWN DENSITY - 67%
AV. COVER DENSITY - 65%
AV. HEIGHT - ALDER - 21 FEET
AV. HEIGHT - WILLOW - 16 FEET
AV. HEIGHT - COTTONWOOD - 63 FEET

GOOD- STABLE
AV. TREEAGE - 24 YEARS
AV. CROWN DENSITY - 75%
AV. COVER DENSITY - 77%
AV. HEIGHT - ALDER - 24 FEET
AV. HEIGHT - WILLOW - 20 FEET
AV. HEIGHT - COTTONWOOD - 61 FEET

DESCRIPTOR- CURRENT CONDITION
 DISTURBED
 TREND- RECOVERING, STABLE, DEGRADING

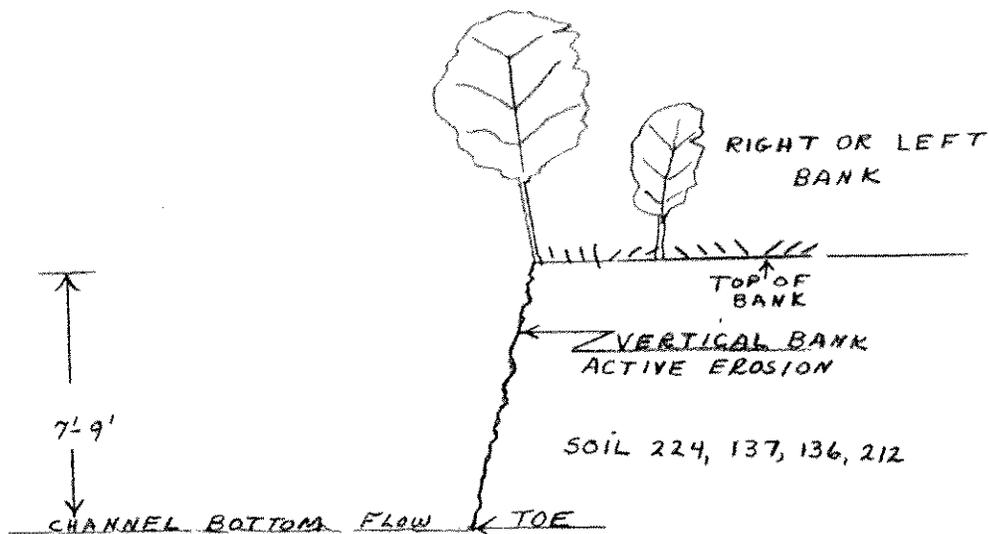


DISTURBED-RECOVERING
 AV. TREEAGE- 20 YEARS
 AV. CROWN DENSITY- 43%
 AV COVER DENSITY- 50%
 AV HEIGHT-ALDER- 20 FEET
 AV HEIGHT-WILLOW- 18 FEET
 AV. HEIGHT COTTONWOOD- 32 FEET

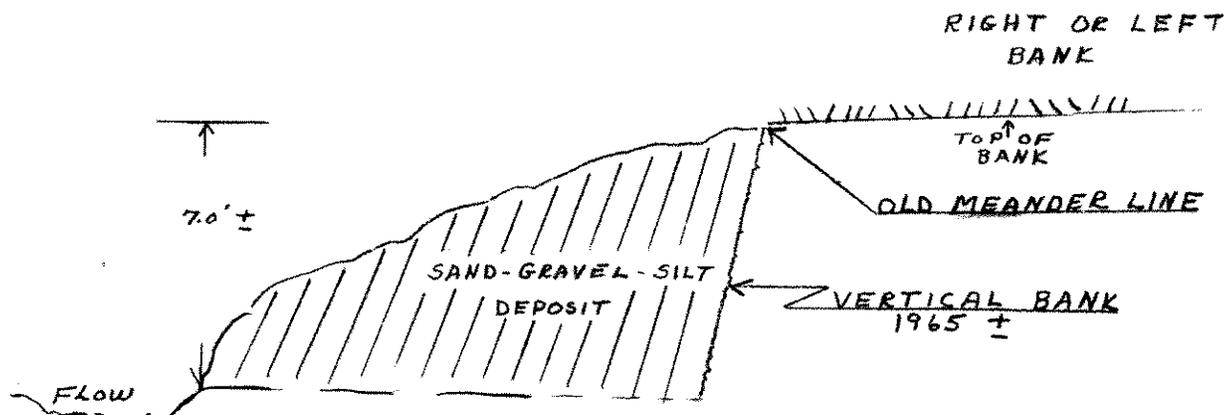
DISTURBED- STABLE
 AV. TREEAGE- 26 YEARS
 AV CROWN DENSITY- 65%
 AV COVER DENSITY- 41%
 AV. HEIGHT ALDER- 25
 AV HEIGHT WILLOW- 20'
 AV HEIGHT COTTONWOOD- 80'

DISTURBED - DEGRADED
 AV TREEAGE - 24 YEARS
 AV CROWN DENSITY- 52%
 AV COVER DENSITY- 43%
 AV HEIGHT-ALDER- 21 FEET
 AV HEIGHT-WILLOW- 17 FEET
 AV HEIGHT- COTTON WOOD- NONE

DESCRIPTOR - CURRENT CONDITION
 DEGRADED
 TREND- DEGRADING



ADDITIONAL GROWTH DOES OCCUR ON
 SOME SITES = TOP OF BANK - TOE OF
 VERTICAL BANK

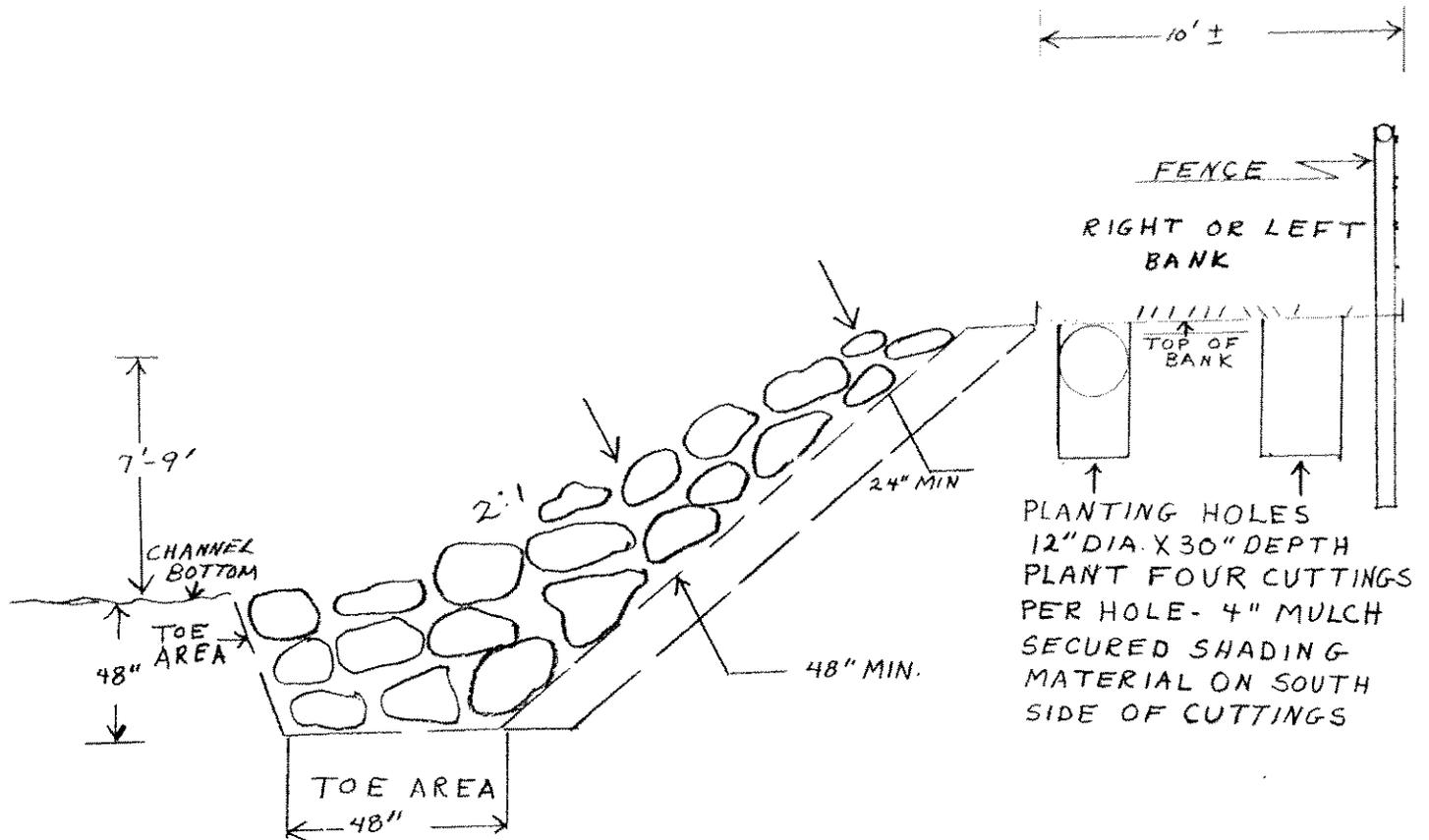


VERY DRY, STERILE SITES - NO CROWN
 OR COVER DENSITY

AV. TREEAGE - 22 YEARS
 AV. CROWN DENSITY - 42%
 AV. COVER DENSITY - 21%
 AV. HEIGHT - ALDER - 23 FEET
 AV. HEIGHT - WILLOW - 16 FEET
 AV. HEIGHT - COTTONWOOD - 43 FEET

SKETCH BY AGL 7-20-92
 NO SCALE

TOP OF BANK PLANTING
NO SCALE



SKETCH BY AGL 7.13.92

OWNER NAMES	FIELD SHEET	PLAN SHEET	FENCED	LOW FLOW	LIVESTOCK ACCESS	LIVESTOCK EXCLUSION	RIP-RAP BANK	BANK	CONDITION	TREND
GLASCOCK, ROBT	351	21			X			LEFT	DEGRADED	DEGRADING
GLASCOCK, ROBT	352	22		X	X		X	LEFT	GOOD	STABLE
GLASCOCK, ROBT	353	22	X	X		X	X	LEFT	GOOD	STABLE
GLASCOCK, ROBT	354	22	X	X		X	X	LEFT	GOOD	RECOVERING
HOWARD, HARMON WELLS, SUSAN	355	22		X		X		LEFT	DISTURBED	RECOVERING
HOWARD, HARMON	356	22		X		X		RIGHT	GOOD	RECOVERING
CONNOLLY, LINDA FAIRBANKS, DIAN	357	22		X			X	RIGHT	GOOD	RECOVERING
FINDLEY, STEVE	358	22		X		X		RIGHT	DISTURBED	DEGRADING
WELLS, SUSAN	359	22		X		X	X	RIGHT	GOOD	RECOVERING
DEWITT, TOM	360	22	X	X		X	X	RIGHT	GOOD	RECOVERING
DEWITT, TOM	361	22				X		RIGHT	DISTURBED	RECOVERING
DEWITT, TOM	362	21		X		X	X	RIGHT	GOOD	STABLE
BARNES, RICK	363	1	X		X			RIGHT	GOOD	RECOVERING

Figure 14.0

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
1	13			
2	13	FENCING		
3	13	FENCING		
4	13	FENCING		
5	13	FENCING		
6	13	FENCING		
7	13	FENCING		
8	13	FENCING	TREE PLANTING	
9	13	FENCING	TREE PLANTING	SHRUB PLANTING
10	13	FENCING		
11	13	FENCING	TREE PLANTING	SHRUB PLANTING
12	13	FENCING	TREE PLANTING	SHRUB PLANTING
13	13	FENCING	TREE PLANTING	SHRUB PLANTING
14	13	FENCING	TREE PLANTING	SHRUB PLANTING
15	13	FENCING	TREE PLANTING	SHRUB PLANTING
16	13	FENCING	TREE PLANTING	

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES			
17	13	FENCING	TREE PLANTING		
18	13	FENCING			
19	14	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
20	14	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
21	14				
22	14	FENCING			
23	13	FENCING	TREE PLANTING	SHRUB PLANTING	
24	13	FENCING			
25	13	FENCING	TREE PLANTING	SHRUB PLANTING	
26	13	FENCING			
27	13	FENCING	TREE PLANTING	SHRUB PLANTING	
28	13	FENCING	SHRUB PLANTING		
29	13	FENCING	TREE PLANTING		
30	13	FENCING			
31	13	FENCING			
32	13	FENCING	LIVESTOCK WATER	TREE PLANTING	SHRUB PLANTING

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
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33	13	TREE PLANTING	SHRUB PLANTING	
34	13	TREE PLANTING	SHRUB PLANTING	
35	13	TREE PLANTING	SHRUB PLANTING	
36	12			
37	12			
38	13			
39	13	BANK PROTECTION	TREE PLANTING	FENCING
40	13			
41	13			
42	13			
43	13			
44	13			
45	13			
46	13			
47	13			
48	13	FENCING		

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES	
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49 12 TREE PLANTING

50 12 TREE PLANTING

51 12 TREE PLANTING

52 12 TREE PLANTING SHRUB PLANTING

53 12 TREE PLANTING

54 12 TREE PLANTING

55 12 TREE PLANTING

56 12 TREE PLANTING

57 12 TREE PLANTING

58 12

59 12

60 12

61 12

62 12 SHRUB PLANTING

63 12 TREE PLANTING

64 12 TREE PLANTING

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES				
65	12	TREE PLANTING				
66	12	TREE PLANTING				
67	12	BANK PROTECTION	LIVESTOCK WATER			
68	12					
69	12	SHRUB PLANTING				
70	12	BANK PROTECTION	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK WATER
71	11	TREE PLANTING	SHRUB PLANTING			
72	11	BANK PROTECTION				
73	11	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING		
74	11					
75	11	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING		
76	11					
77	11					
78	11	TREE PLANTING	SHRUB PLANTING			
79	11	TREE PLANTING	SHRUB PLANTING			
80	11	TREE PLANTING	SHRUB PLANTING			

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-WP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES			
81	11				
82	12	SHRUB PLANTING	LIVESTOCK WATER		
83	12	SHRUB PLANTING			
84	12	SHRUB PLANTING			
85	12	SHRUB PLANTING	LIVESTOCK WATER		
86	11				
87	11	FENCING	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING
88	11	FENCING	TREE PLANTING	SHRUB PLANTING	BANK PROTECTION
89	11	FENCING			
90	11	FENCING	LIVESTOCK EXCLUSION	TREE PLANTING	
91	11	FENCING	LIVESTOCK EXCLUSION		
92	11	LIVESTOCK EXCLUSION			
93	11				
94	11	LIVESTOCK EXCLUSION			
95	11	LIVESTOCK EXCLUSION			
96	11	LIVESTOCK EXCLUSION			

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-NP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES				
97	11					
98	11	FENCING				
99	11	FENCING				
100	11	FENCING				
101	11	FENCING	BANK PROTECTION	LIVESTOCK EXCLUSION		
102	9	FENCING	TREE PLANTING	SHRUB PLANTING		
103	9	BANK PROTECTION IRRIGATION SYSTEM	TREE PLANTING	SHRUB PLANTING	FENCING	LIVESTOCK WATER
104	9	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING	IRRIGATION SYSTEM	LIVESTOCK EXCLUS
105	10	FENCING	BANK PROTECTION	LIVESTOCK EXCLUSION	LIVESTOCK WATER	
106	10	FENCING	BANK PROTECTION	LIVESTOCK WATER		
107	10	FENCING	BANK PROTECTION	TREE PLANTING	LIVESTOCK EXCLUSION	
108	10	FENCING				
109	10	FENCING	LIVESTOCK EXCLUSION			
110	10	FENCING	LIVESTOCK EXCLUSION			
111	10	FENCING	LIVESTOCK EXCLUSION			
112	10	LIVESTOCK EXCLUSION				

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES				
113	10	LIVESTOCK EXCLUSION				
114	10	LIVESTOCK EXCLUSION				
115	10	LIVESTOCK EXCLUSION				
116	9	FENCING GRASS PLANTING	LIVESTOCK EXCLUSION	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING
117	9	FENCING LIVESTOCK EXCLUSION	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING	IRRIGATION SYSTEM
118	9	FENCING	LIVESTOCK EXCLUSION	TREE PLANTING	IRRIGATION SYSTEM	
119	9	FENCING	LIVESTOCK EXCLUSION			
120	9					
121	9	LIVESTOCK EXCLUSION	TREE PLANTING	IRRIGATION SYSTEM		
122	9	LIVESTOCK EXCLUSION	TREE PLANTING	IRRIGATION SYSTEM		
123	9	LIVESTOCK EXCLUSION				
124	9	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION	
125	8	FENCING	LIVESTOCK EXCLUSION	TREE PLANTING	SHRUB PLANTING	
126	8	FENCING	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
127	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION	

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES			
128	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
129	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
130	8	FENCING	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING LIVESTOCK EXCLUSION
131	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
132	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
133	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
134	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
135	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
136	8	FENCING	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION
137	9	TREE PLANTING	SHRUB PLANTING		
138	9	TREE PLANTING	SHRUB PLANTING	LIVESTOCK EXCLUSION	
139	9	LIVESTOCK EXCLUSION			
140	9	LIVESTOCK EXCLUSION			
141	9				
142	9	LIVESTOCK EXCLUSION	TREE PLANTING		
143	9	LIVESTOCK EXCLUSION			

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES	
144	9		
145	9		
146	8	TREE PLANTING	LIVESTOCK WATER
147	8	LIVESTOCK WATER	
148	8	TREE PLANTING	
149	8		
150	8	TREE PLANTING	IRRIGATION SYSTEM
151	8		
152	8	TREE PLANTING	
153	8		
154	7	TREE PLANTING	
155	7	TREE PLANTING	
156	7	LIVESTOCK EXCLUSION	
157	7	TREE PLANTING	
158	7		
159	7		

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
160	7	TREE PLANTING		
161	7	TREE PLANTING		
162	7	TREE PLANTING	LIVESTOCK EXCLUSION	
163	7			
164	7			
165	8			
166	7	FENCING	BANK PROTECTION	TREE PLANTING
167	7			
168	6	TREE PLANTING		
169	6	TREE PLANTING		
170	6			
171	6			
172	6			
173	6	LIVESTOCK EXCLUSION		
174	6			
175	6			

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES
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176 6

177 6 BANK PROTECTION

178 6

179 6

180 6 TREE PLANTING

181 6 TREE PLANTING

182 6

183 7

184 7

185 7

186 6

187 6 FENCING LIVESTOCK EXCLUSION

188 6 FENCING LIVESTOCK EXCLUSION

189 6 FENCING LIVESTOCK EXCLUSION

190 6 FENCING

191 5 FENCING LIVESTOCK EXCLUSION

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD PLAN
SHEET SHEET
PLANNED PRACTICES

192 5

193 5 TREE PLANTING SHRUB PLANTING

194 5

195 5

196 5

197 5

198 5 TREE PLANTING SHRUB PLANTING

199 5

200 5 TREE PLANTING SHRUB PLANTING

201 5

202 5

203 5

204 5

205 4 FENCING

206 4 FENCING

207 5

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES	
208	5		
209	5	FENCING	
210	4	FENCING	
211	4	FENCING	
212	4	FENCING	SHRUB PLANTING
213	4		
214	4	SHRUB PLANTING	
215	4		
216	4		
217	4		
218	4		
219	4		
220	4		
221	4		
222	4		
223	4	BANK PROTECTION	

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
256	2			
257	2			
258	2	LIVESTOCK EXCLUSION		
259	2	LIVESTOCK EXCLUSION		
260	1	LIVESTOCK EXCLUSION		
261	1	BANK PROTECTION	LIVESTOCK EXCLUSION	
262	1	LIVESTOCK EXCLUSION		
263	1	BANK PROTECTION	LIVESTOCK EXCLUSION	
264	1	LIVESTOCK EXCLUSION		
265	1	LIVESTOCK EXCLUSION		
266	1	LIVESTOCK EXCLUSION		
267	1	BANK PROTECTION	TREE PLANTING	SHRUB PLANTING
268	1			
269	14			
270	14			
271	14			

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES	
224	4		
225	3		
226	3		
227	3		
228	4		
229	4	BANK PROTECTION	
230	4		
231	3	FENCING	LIVESTOCK EXCLUSION
232	3	FENCING	LIVESTOCK EXCLUSION
233	3	FENCING	LIVESTOCK EXCLUSION
234	3	FENCING	LIVESTOCK EXCLUSION
235	3	FENCING	LIVESTOCK EXCLUSION
236	3		
237	3		
238	3		
239	3		

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
240	3			
241	3	BANK PROTECTION	FENCING	TREE PLANTING
242	3	TREE PLANTING		
243	3			
244	3			
245	3			
246	2			
247	2			
248	2	FENCING	LIVESTOCK EXCLUSION	
249	2	FENCING	LIVESTOCK EXCLUSION	
250	2	FENCING		
251	2	FENCING		
252	2	FENCING	LIVESTOCK EXCLUSION	
253	3			
254	2			
255	2			

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
272	14			
273	14			
274	14	TREE PLANTING		
275	14	FENCING	TREE PLANTING	SHRUB PLANTING
276	14			
277	14			
278	15	LIVESTOCK EXCLUSION		
279	15			
280	15			
281	15			
282	15			
283	15	TREE PLANTING	SHRUB PLANTING	
284	14			
285	14	TREE PLANTING	SHRUB PLANTING	
286	14			
287	15	TREE PLANTING	SHRUB PLANTING	

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES				
288	15					
289	15	TREE PLANTING	SHRUB PLANTING			
290	16	FENCING				
291	16	FENCING LIVESTOCK EXCLUSION	TREE PLANTING	SHRUB PLANTING	BANK PROTECTION	LIVESTOCK WATER
292	16	FENCING LIVESTOCK EXCLUSION	TREE PLANTING	SHRUB PLANTING	BANK PROTECTION	LIVESTOCK WATER
293	16	FENCING	LIVESTOCK WATER			
294	16					
295	16					
296	15					
297	16	FENCING				
298	16					
299	16	FENCING				
300	16	FENCING				
301	16	FENCING				
302	17	FENCING	TREE PLANTING	SHRUB PLANTING		
303	17					

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES
304	17	
305	17	
306	17	
307	17	
308	17	
309	17	
310	17	
311	18	
312	18	
313	18	
314	18	
315	18	
316	18	
317	17	FENCING
318	17	
319	17	FENCING

SCOTT RIVER RIPARIAN ZONE
 PLANNED PRACTICES
 PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES		
320	17			
321	19	LIVESTOCK EXCLUSION		
322	19			
323	19			
324	19	BANK PROTECTION	TREE PLANTING	
325	18			
326	18			
327	18			
328	18			
329	19	FENCING	TREE PLANTING	SHRUB PLANTING
330	19	FENCING	TREE PLANTING	SHRUB PLANTING
331	19			
332	20			
333	20			
334	20	LIVESTOCK EXCLUSION		
335	20	LIVESTOCK EXCLUSION		

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES
336	20	LIVESTOCK EXCLUSION
337	20	
338	20	
339	20	
340	20	
341	21	
342	21	
343	21	
344	20	
345	20	
346	20	
347	20	
348	20	
349	21	
350	21	FENCING LIVESTOCK EXCLUSION
351	21	FENCING

SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD SHEET	PLAN SHEET	PLANNED PRACTICES
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352	22	FENCING LIVESTOCK EXCLUSION
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353	22	
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354	22	
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355	22	
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356	22	
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357	22	
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358	22	
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359	22	
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360	22	
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361	22	
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362	21	
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363	1	
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364	1	
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365	1	
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366	10	
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367	10	
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SCOTT RIVER RIPARIAN ZONE
PLANNED PRACTICES
PROJECT 91-HP-10

FIELD PLAN
SHEET SHEET

PLANNED PRACTICES

368 10

369 10

370 10

371 10

372 10

373 10

374 10 BANK PROTECTION