



United States Department of Agriculture

Forest Service

Tongass National Forest R10-MB-116



Shelter Cove

Draft Environmental Impact Statement

Alaska Region Ketchikan Area

Volume II: Maps





Draft Environmental Impact Statement

Shelter Cove

U.S.D.A. - Forest Service Alaska Region Alaska

Lead Agency:

U.S.D.A. Forest Service

Tongass National Forest

Ketchikan Area Federal Building

Ketchikan, Alaska 99901

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Comments Must Be

Received:

Within 45 days of when Notice of Availability of the Draft Environmental Impact Statement is published in

the Federal Register.



Contents

NOTE: This document is to be used in conjunction with Volume 1 as a reference aid for referring to figures mentioned in the text.

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Chapter 1 Maps



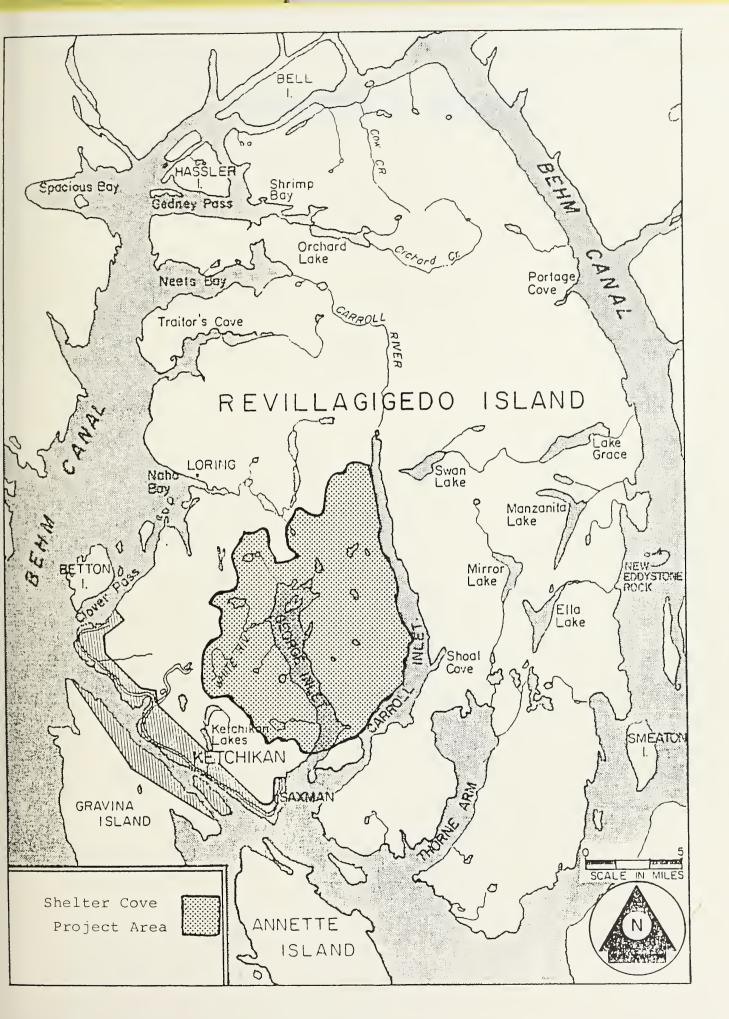
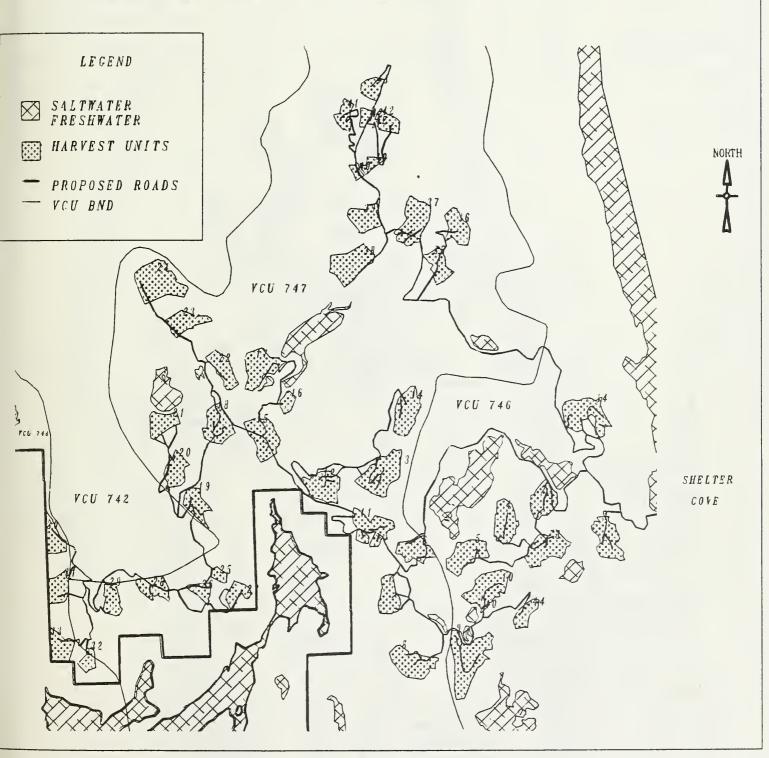


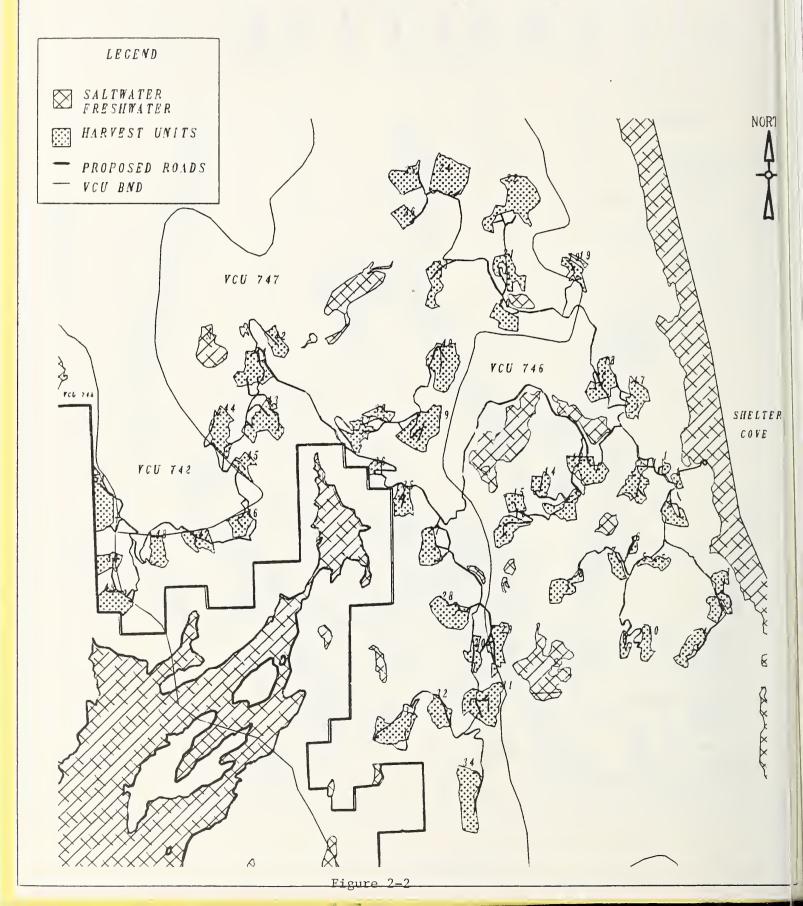
Figure 1-1

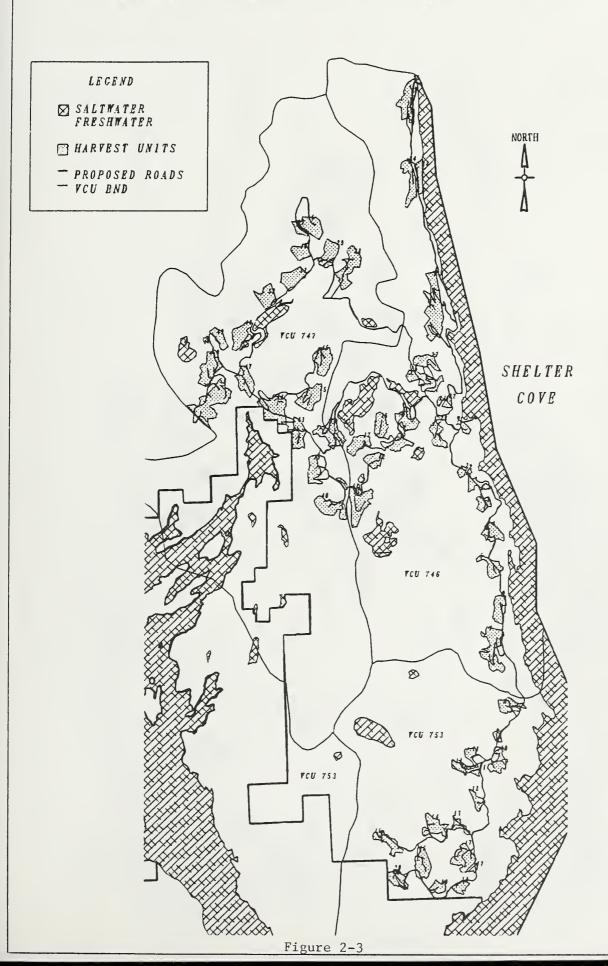


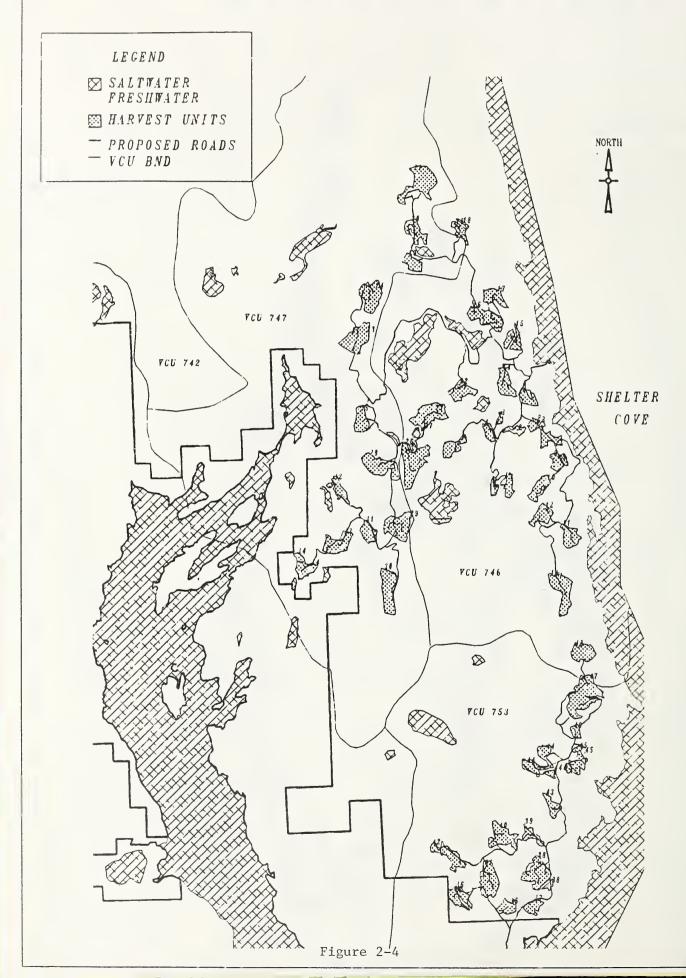
Chapter 2 Maps

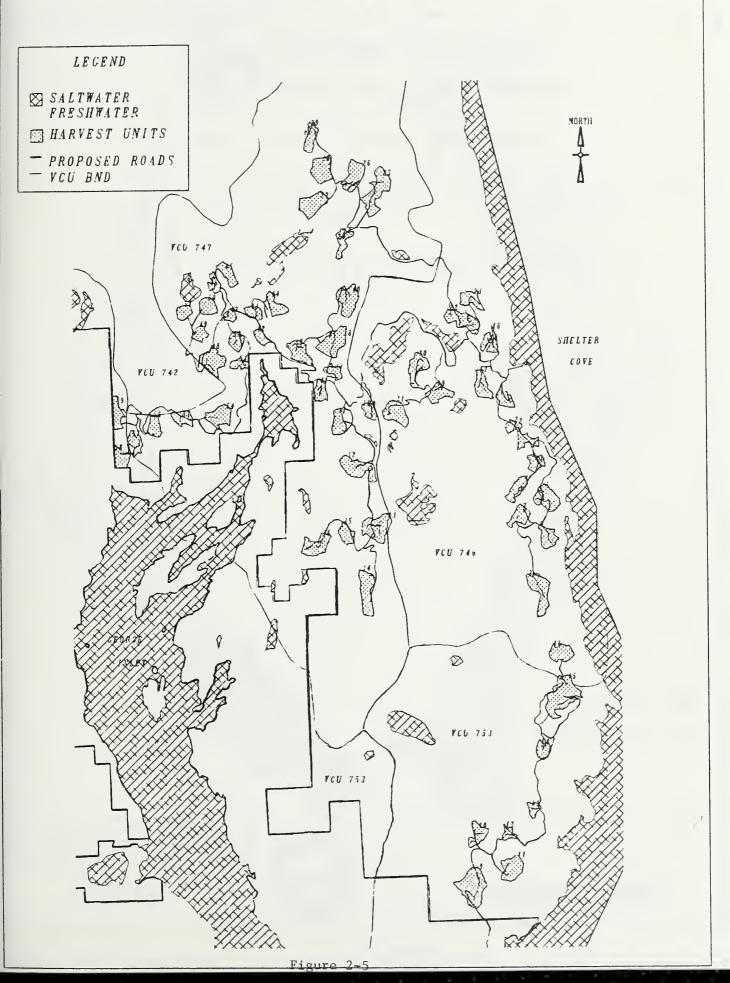












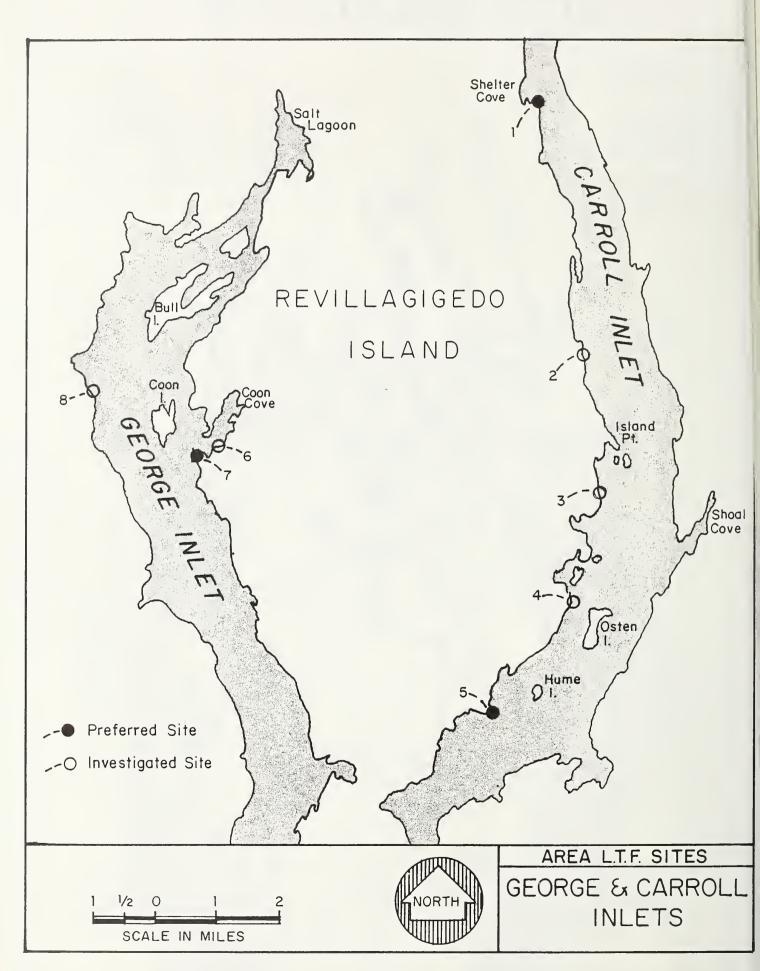


Figure 2-6

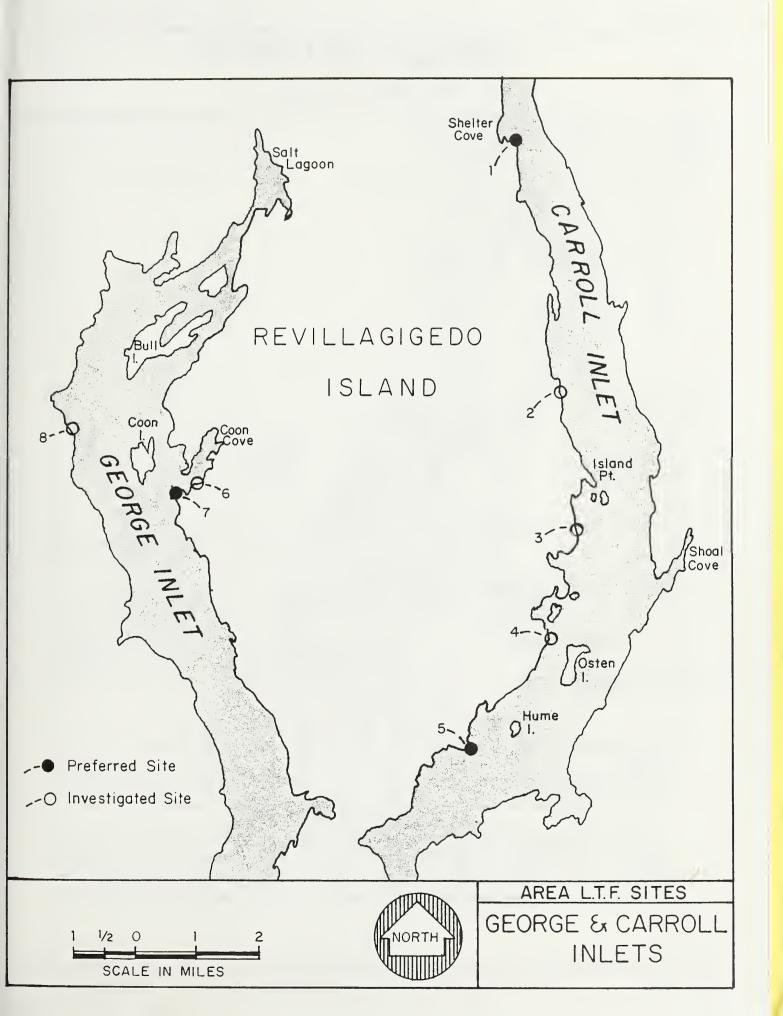
Log Transfer Facilities and Site Location Maps

Log Transfer Sites Investigated

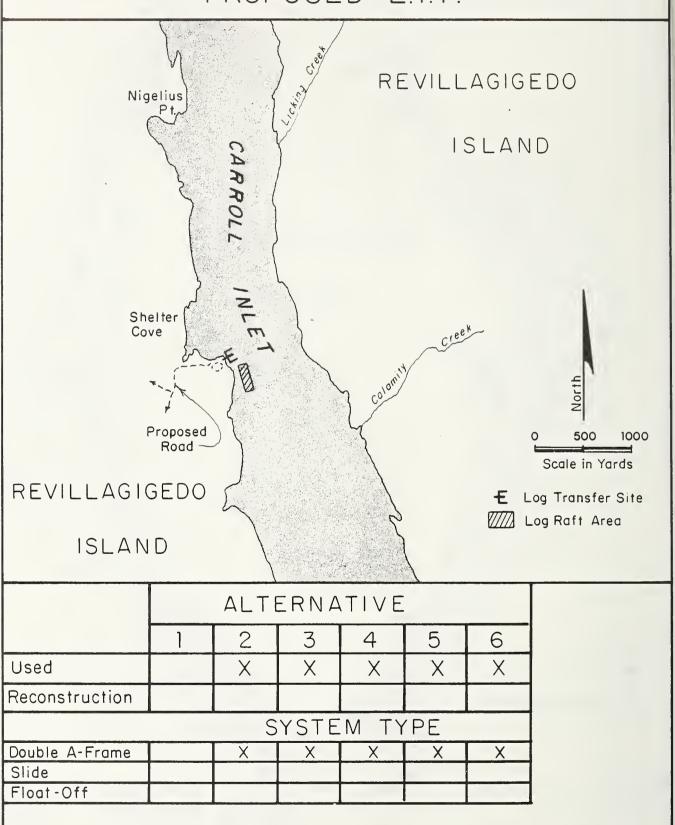
The first map indicates all new sites that were considered. Those that were eliminated did not meet pertinent siting guidelines and are indicated on the maps as investigated sites. The preferred sites were investigated and are proposed for use in the various alternatives considered in this document.

The next two maps refer to the individual existing and proposed (non-existing) log transfer sites that are planned for use in the alternatives in this document.

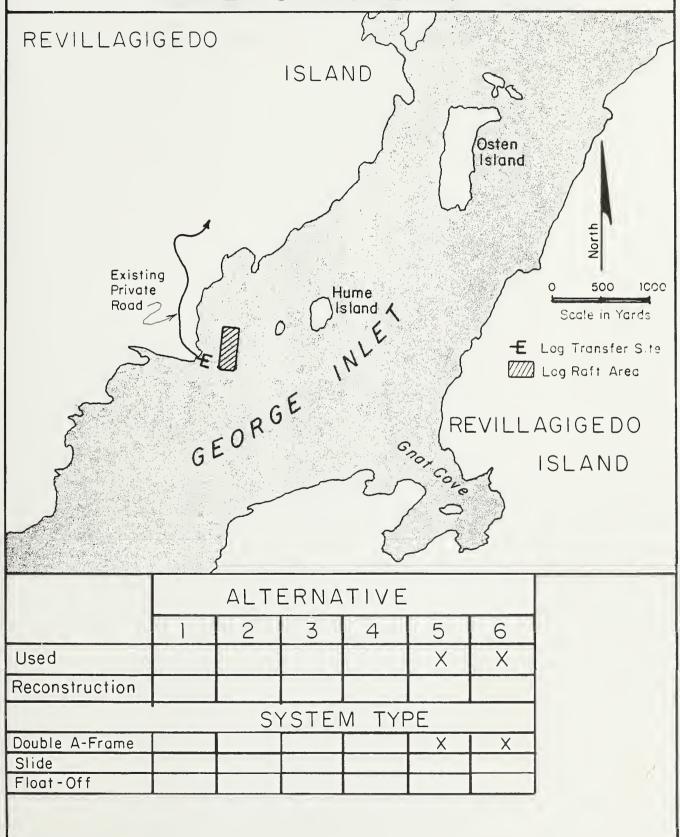




SHELTER COVE PROPOSED L.T. F.



HUME ISLAND EXISTING L.T.F.





Preliminary Reconnaissance Reports

These site diagrams relate to the Area L.T.F. Sites Map.

Site 1 — Shelter Cove

Operations

- The site appears to have adequate upland area.
- Favorable for A-frame system.
- Dry sort and storage is not available at the site. Dry sort and storage may possibly be located ½ to ½ mile from site.

Development

- Rock borrow is adjacent to the site.
- Good beachhead adjacent to site for equipment mobilization.
- Site requires moderate fill and rock excavation.

Access

- Access road would be about ½ to ¾ mile long.
- Road will contain some minor segments with very steep grades.
- Site is adequate for a drive-through loop road.
- Approach to dump position is suitable.
- Access road will have a very heavy through-cut adjacent to the site. The cut will be about 100' long and 20-30' deep. This can serve as a rock source if it proves adequate.

Water Beach Conditions

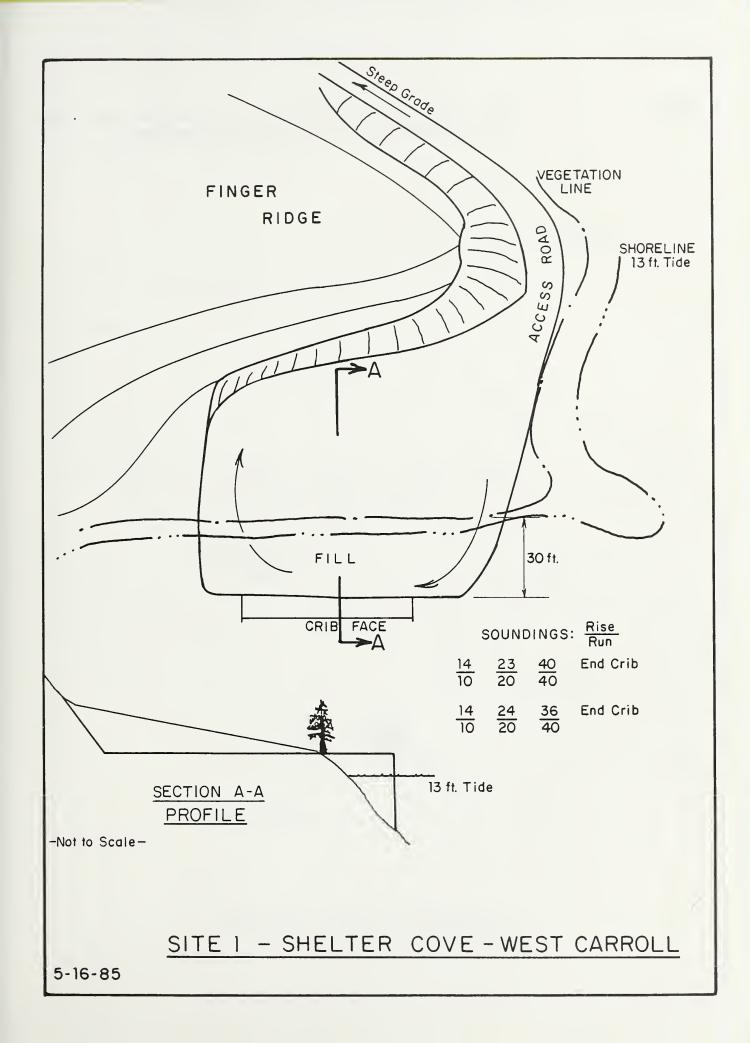
- The site has adequate water depth.
- According to the navigational charts, Carroll Inlet has very good depth.
- Ample raft and booming area is available at the site.

Environmental

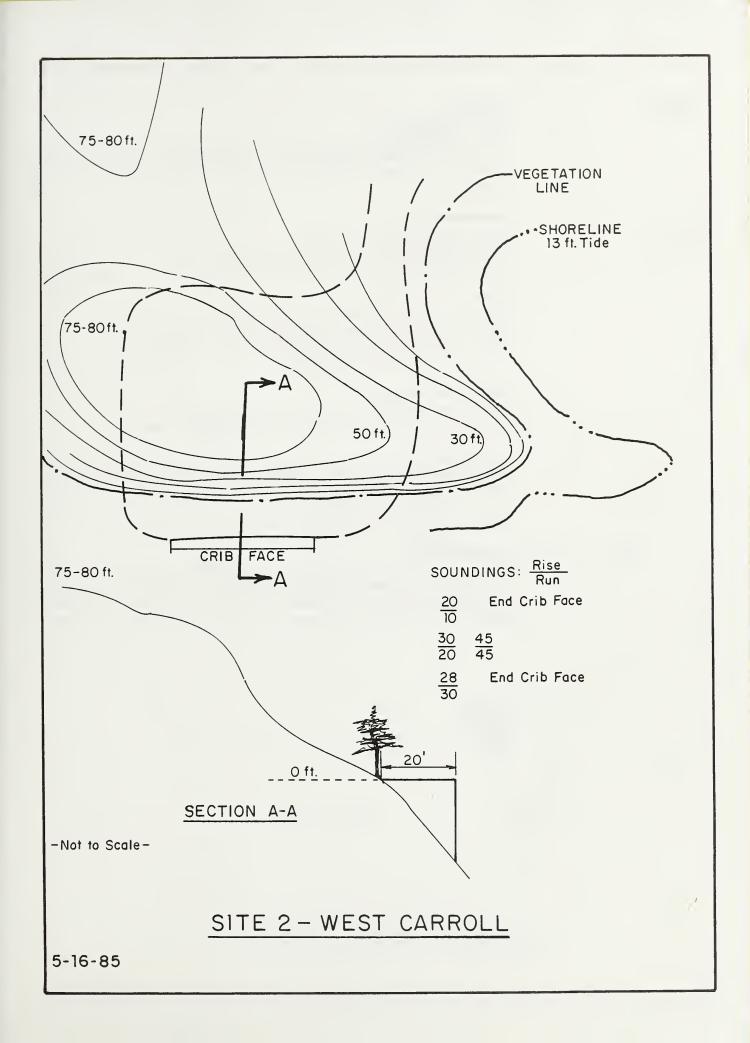
- The site appears to lie in a favorable area.
- Water depth indicates suitable flushing.
- Eagle Tree Atlas does not indicate the presence of any eagle trees.
- Site is protected from weather.

Recommendations

• The site appears to be adequate and should be considered further. Marine, archaeological, and economic impacts should be evaluated in more detail. Additionally, the area should be surveyed for eagle trees.



Site 2 contained a 70-80' high ridge within the site. Development would be very difficult and expensive. This site was not given further consideration.



Operations

- Site is of adequate size.
- Favorable for A-frame.
- Dry sort and storage would have to be accomplished within ¼ mile of the site. If done at the TTF, much rock excavation would be necessary to develop dry storage and sort.

Development

- Rock source is adjacent to the site.
- Good beachhead near the site for equipment mobilization.
- Site requires moderate fill and much rock excavation.

Access

- Access road would be about 3/4 to 1 mile long.
- Site access road would have moderate grades and alignment.
- Site is excellent for a loop drive-through system.
- Approach to dump position is excellent.

Water Beach Conditions

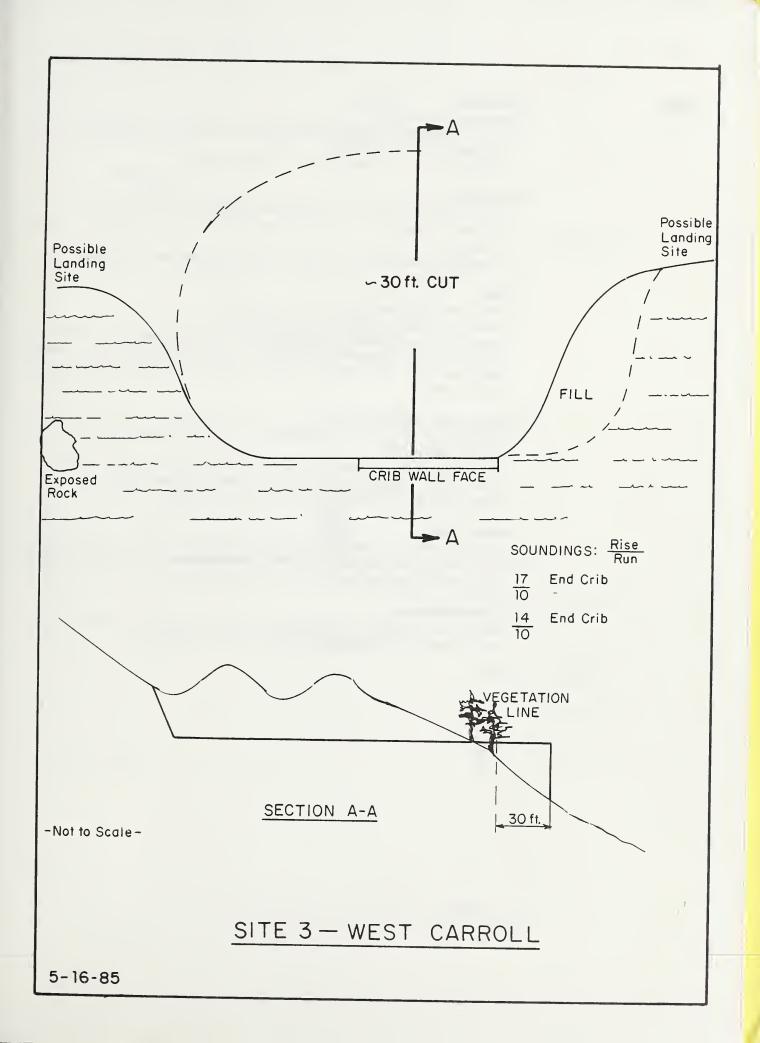
- Site has adequate water depths for A-frame operations.
- Ample water maneuvering room for raft and booming operations.

Environmental

- Site is ½ to ½ mile from tideflat areas and about ½ mile from any significant streams.
- Site is protected from weather.
- Eagle tree atlas does not indicate any eagle trees present on site.

Recommendations

• From an operational and development standpoint, this site appears to be superior to all other sites considered. If marine, archaeological, and economic impacts are favorable, this site should be considered further. The site should be investigated for eagle trees as the West Carroll shoreline appears to contain a number of them.



Operations

- Site is of adequate size.
- Dry sort and storage cannot be accommodated at the site. This would have to be developed about ¼ mile inland.
- A-frame or chain slide would be best suited to this site.

Development

- Site will require a fill 70-75' out from the vegetation line on the beach.
- Rock source is unknown. The fill adjacent to the site had no exposed rock to verify a source.
- Site has good beachhead at north edge of site for equipment mobilization.

Access

- Site access would have moderate grades near the site.
- Access road would be about 1 to 11/4 mile long.
- Large fill will accommodate drive-through loop. Excavated area can also provide part of the loop. Chain slide system would require heavy excavation for ingress and egress because the slide would not require a large fill, thus moving operations back into the uplands.

Water Beach Conditions

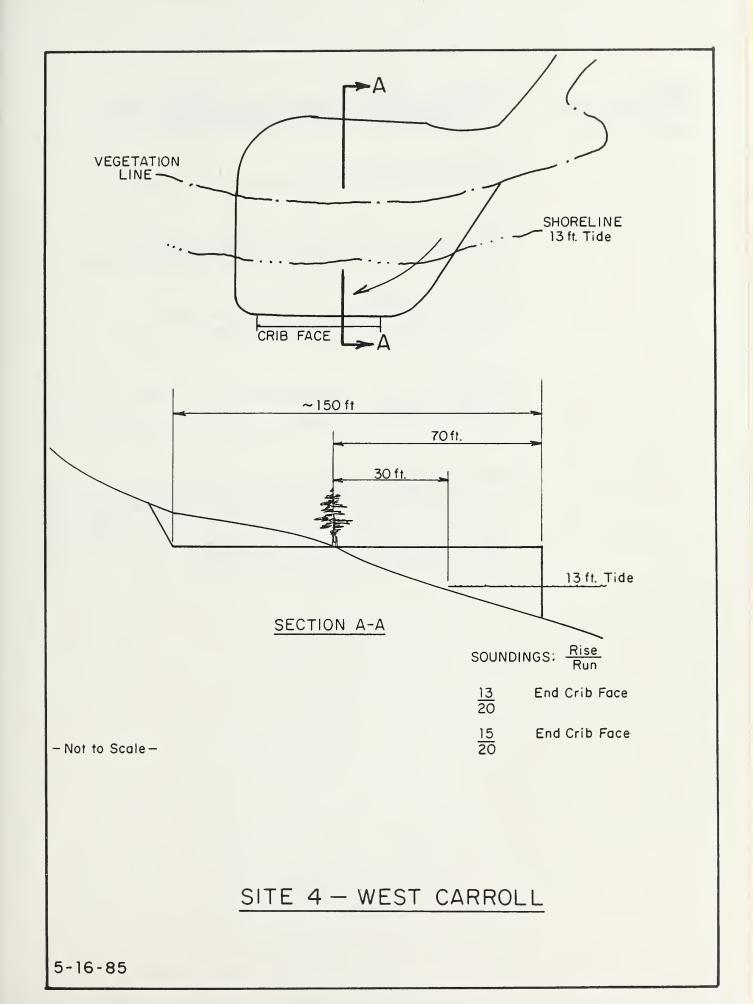
- The site would require the TTF face to be 70-75' from the vegetative line to reach sufficient water depth.
- Tidal action at the site appears to create a fast current. Log rafting would be located directly south of the site at an area with 40' of water depth.
- Ample water area to handle logs for rafting and booming.

Environmental

• The site is about ¼ mile from a tideflat area lying to the north. The navigational charts show that the channel has a deep pocket between Osten Island and the site. This may trap bark and prevent it from dispersing further out into Carroll Inlet.

Recommendations

• This site is an adequate site; however, the fill will be large. The site will require review from marine, archaeological, and economic standpoints.



Site 5 — Salmonberry Site Cape Fox, Inc.

Operations

- The site is suitable for A-frame, chain slide, crane or derrick systems.
- Dry sort and storage area appears to be developable adjacent to the site.

Development

- Rock source availability is unknown.
- Site requires a large fill to reach water depth for all tidal operations.

Access

- Terrain appears to be flat to moderate, providing minimal roading problems.
- Good beachhead landing at the site for equipment mobilization.
- This site is on private land requiring rental, share cost, or other agreement.

Water Beach Conditions

- Full depth water is about 70-80' seaward from the vegetation line.
- Ample maneuvering room for rafting and booming.
- Area is protected from weather.

Environmental

- According to the Forest Service Eagle Atlas, two or three eagle trees are present at or adjacent to the site.
- The site is within 1/4 mile of shallow tideflat beaches to the north and west of the site.

Recommendations

• An economic analysis should be conducted to determine share cost, lease, rental haul, and construction costs that would be applied to government use of the site. Additionally, the site should be investigated for archaeological and marine impact.

Impacts must be evaluated to determine if it will be necessary to dispose of any eagle trees. Eagle trees are protected under Federal law.

Chapter 3 Maps



INVENTORIED VISUAL QUALITY OBJECTIVES

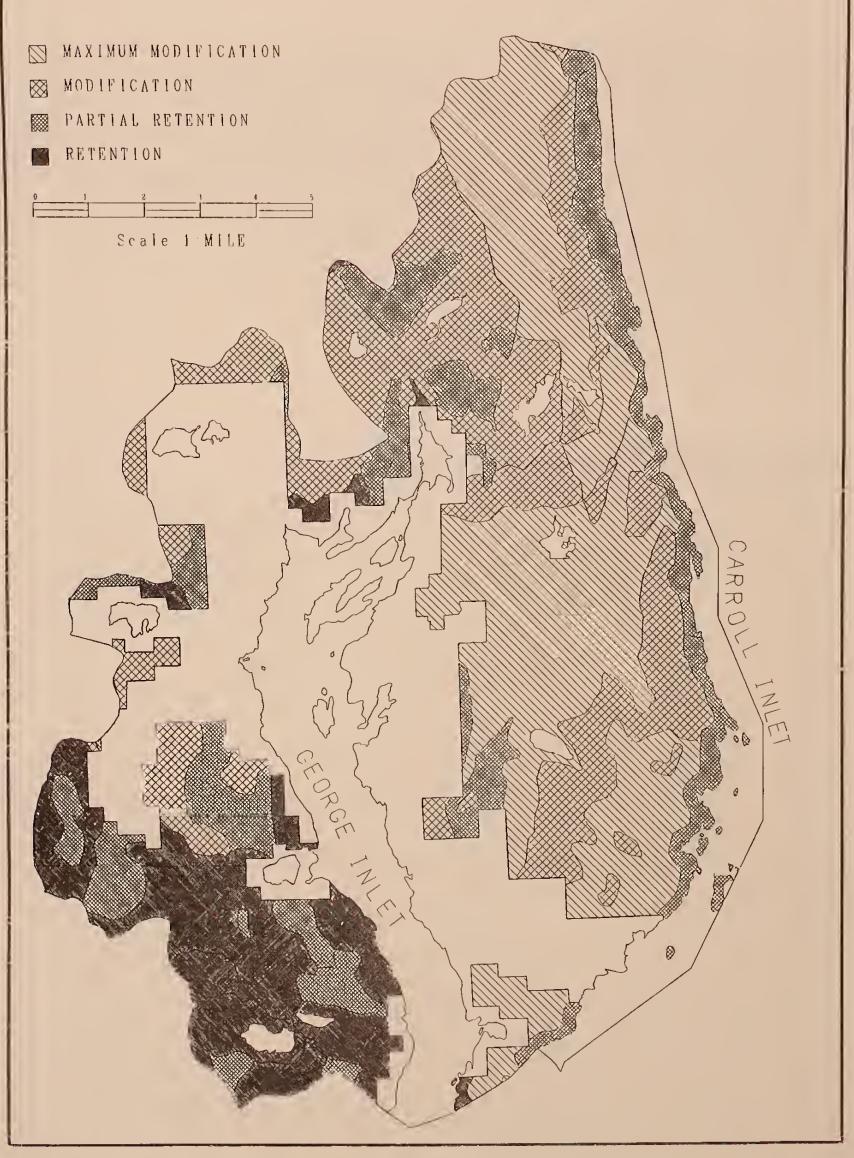


Figure 3-1



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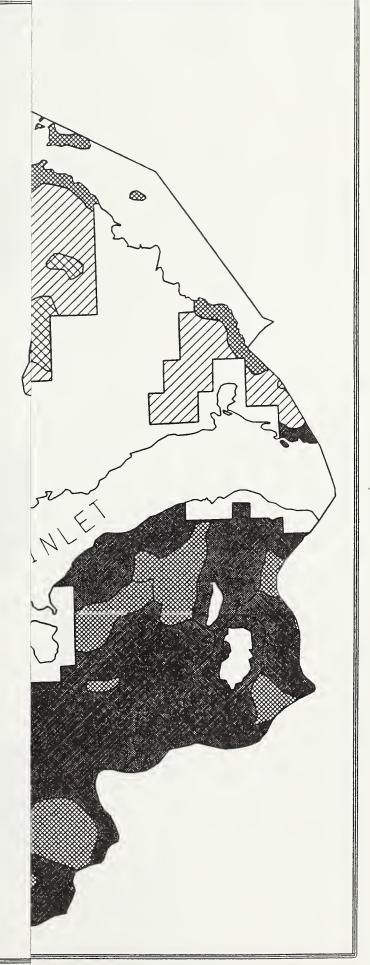


Figure 3-2



INVENTORIED VISUAL QUALITY OBJECTIVES INCLUDING POTENTIAL VIEWSHEDS

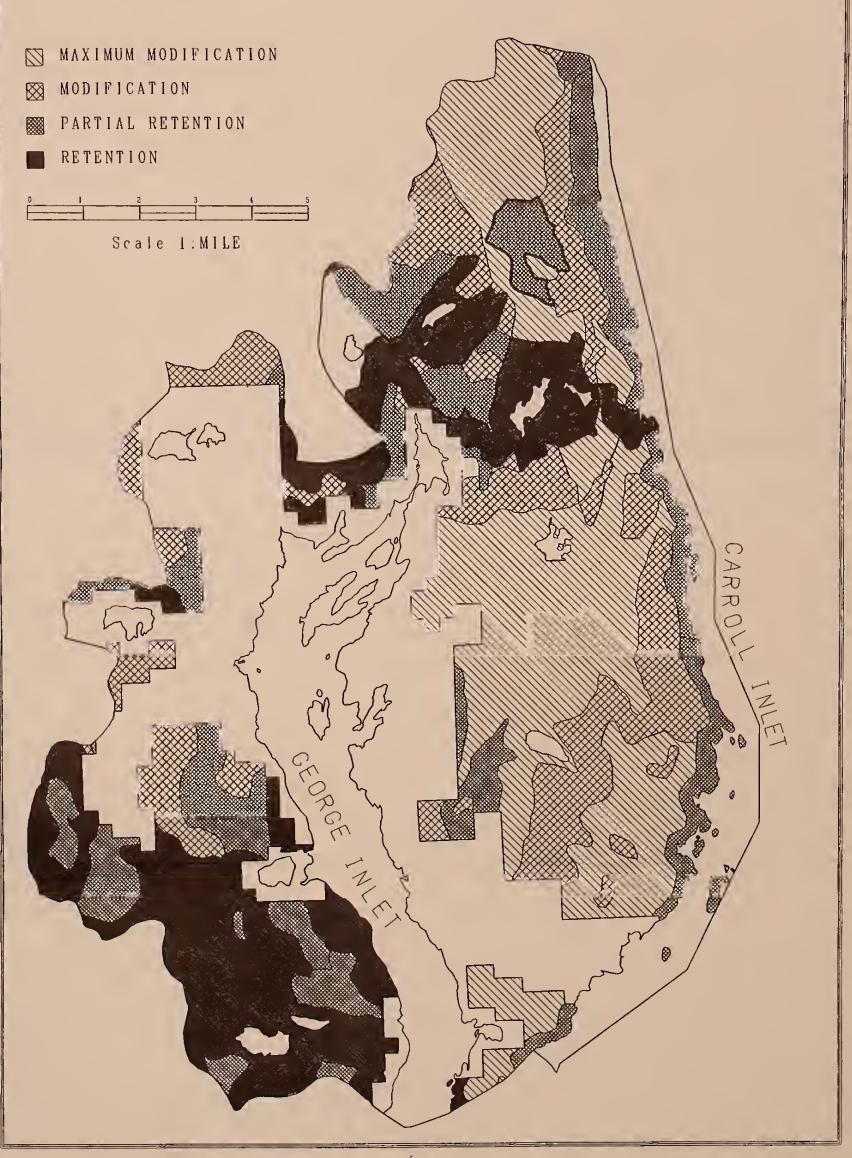


Figure 3-2

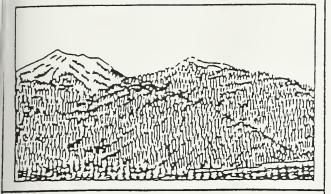


Relationship Between Visual Quality Objectives and Visual Condition

VQO Preservation

VC I Natural Condition

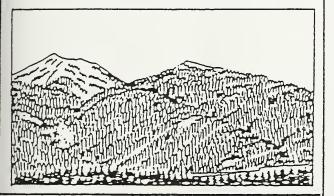
Predominately ecological changes.



VQO Retention

VC II Natural Appearing

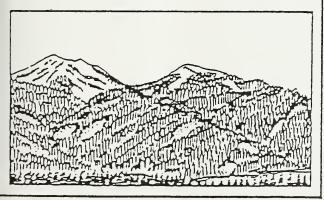
Changes are not evident.



VOO Partial Retention

VC II Slightly Altered

Changes are noticed, but do not attract attention,

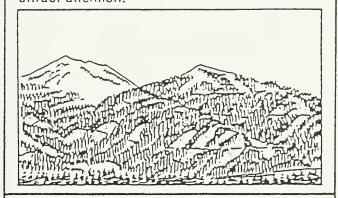


NATURAL CHARACTER DOMINATES

VQO Modification

VC IV Moderately Altered

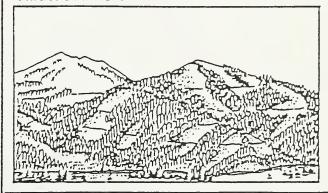
Changes are easily noticed and attract attention.



VQO Maximum Modification

VC V. Heavily Altered

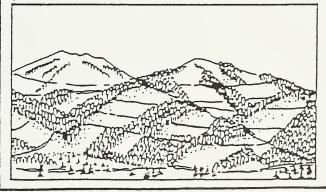
Changes are very strong and attract attention.



VQO Unacceptable Modification

VC VI Drastically Altered

Changes are in glaring contrast and disharmony with natural patterns.



ALTERED CHARACTER DOMINATES



CONDITION VISUAL EXISTING

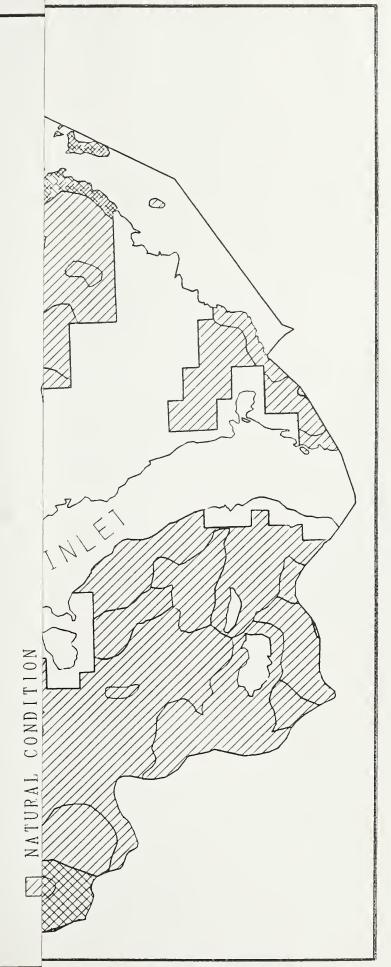
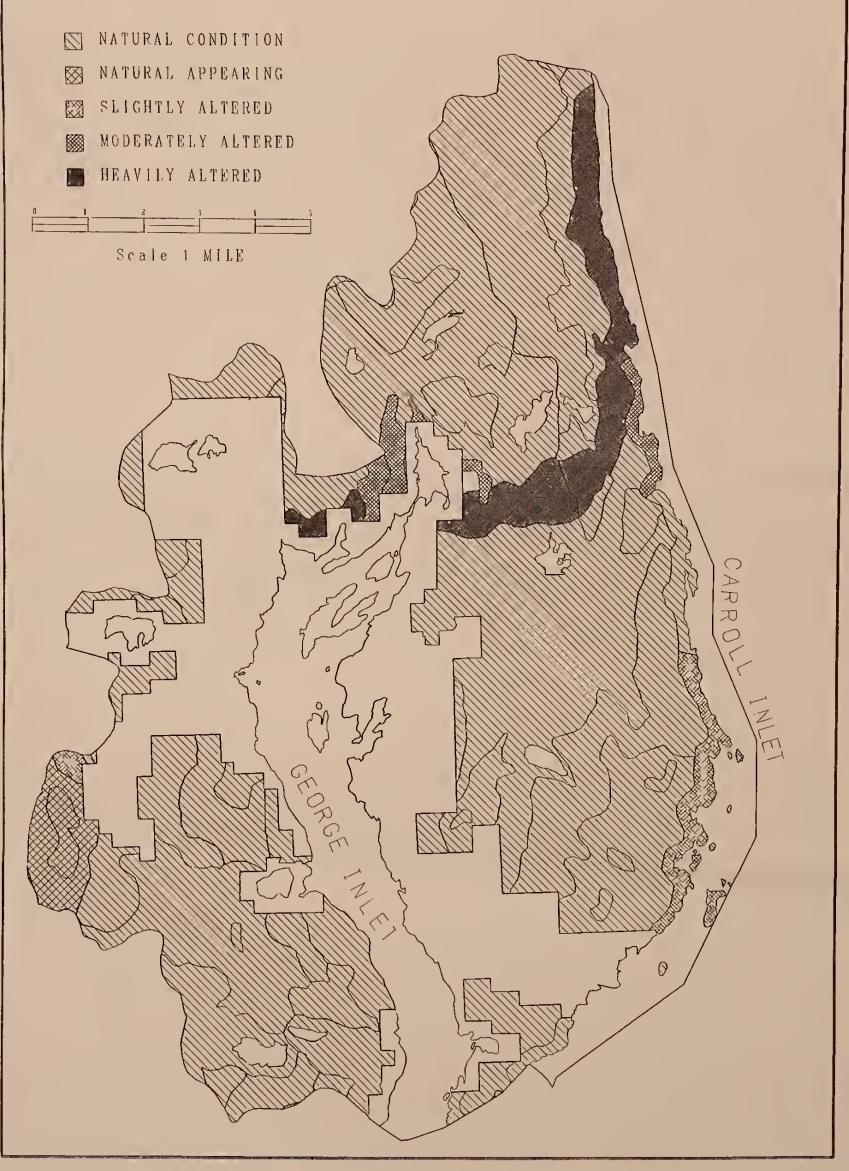


Figure 3-4



EXISTING VISUAL CONDITION





VIEWSHEDS ANALYZED DENTIFIED

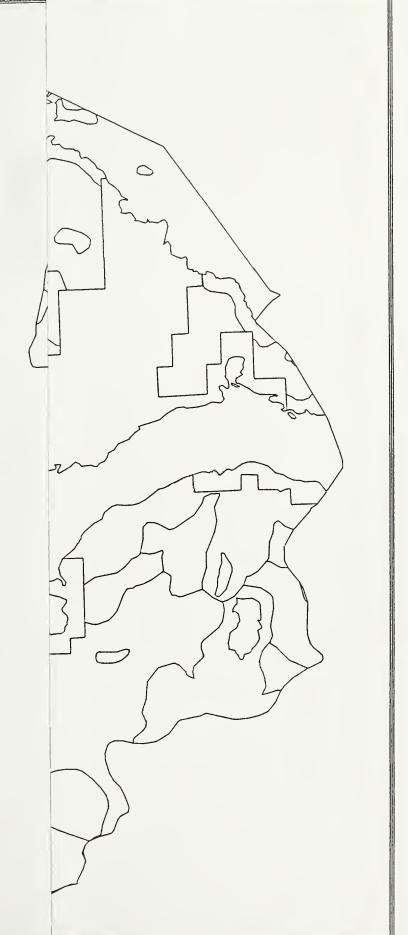
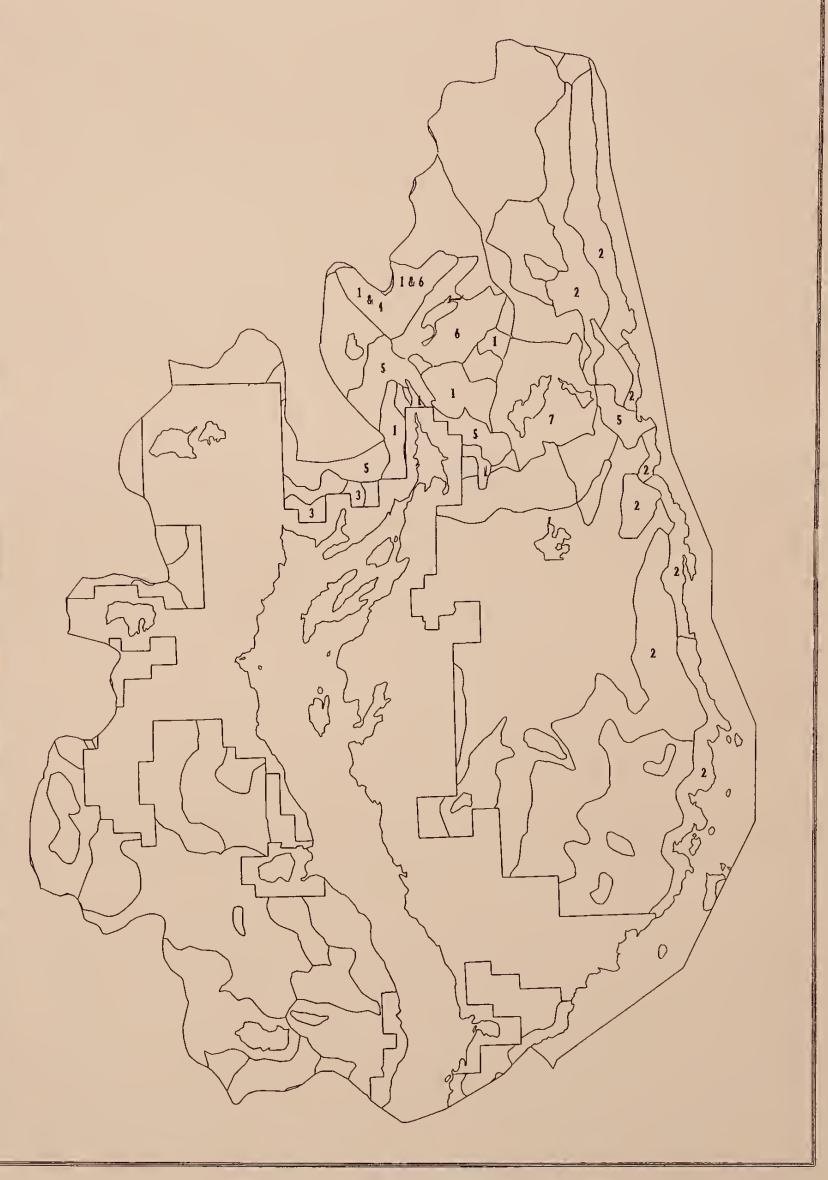


Figure 3 -5

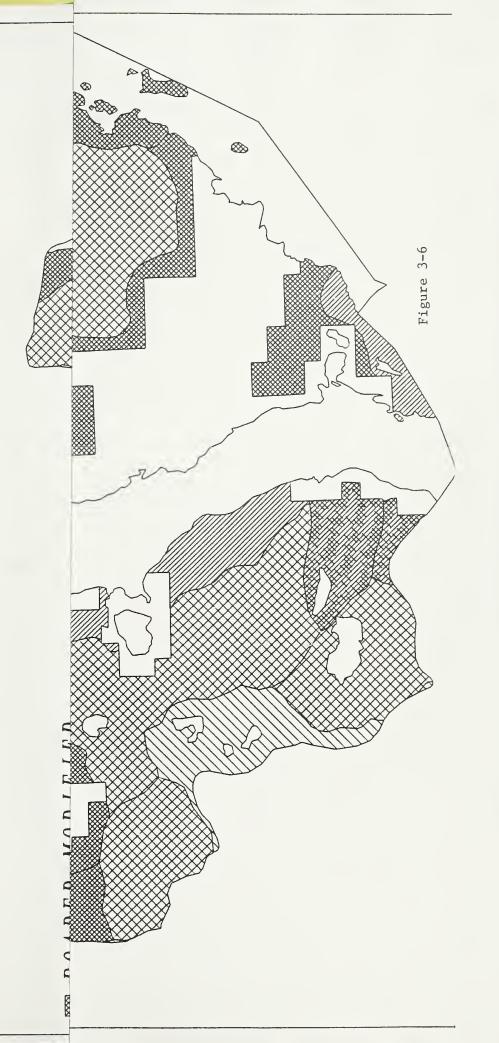


IDENTIFIED VIEWSHEDS ANALYZED IN EIS





AUOLNAANI

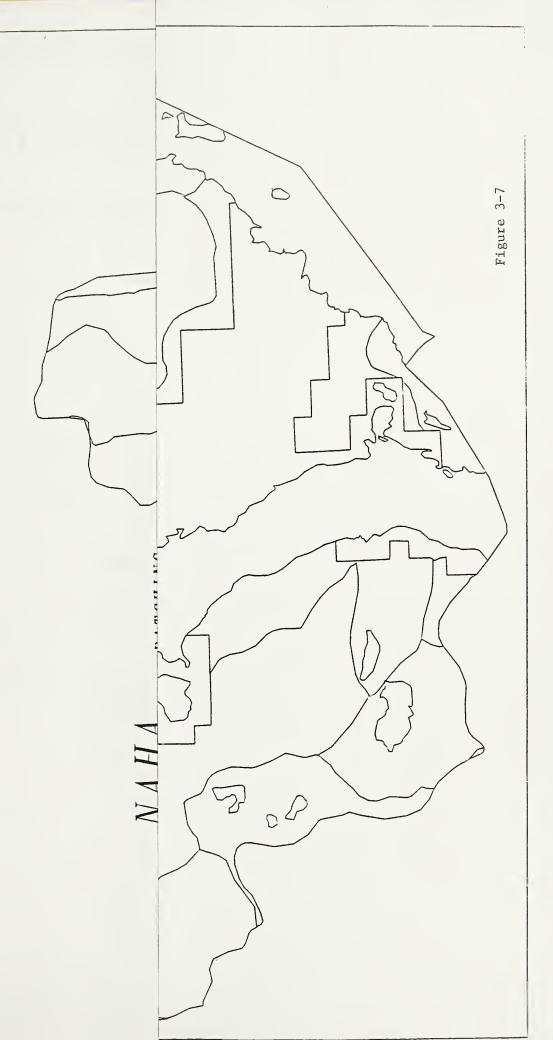




ROS INVENTORY

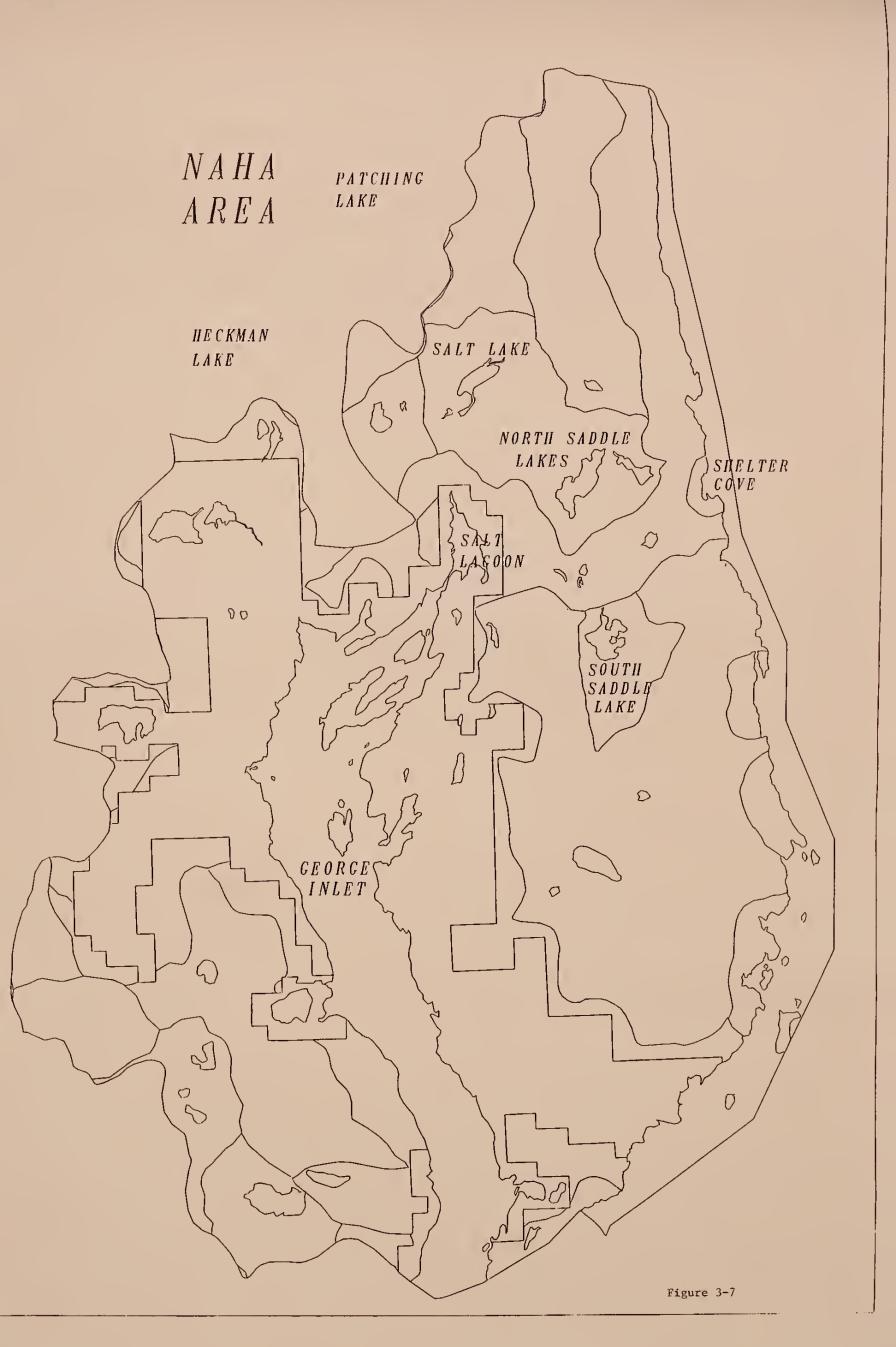








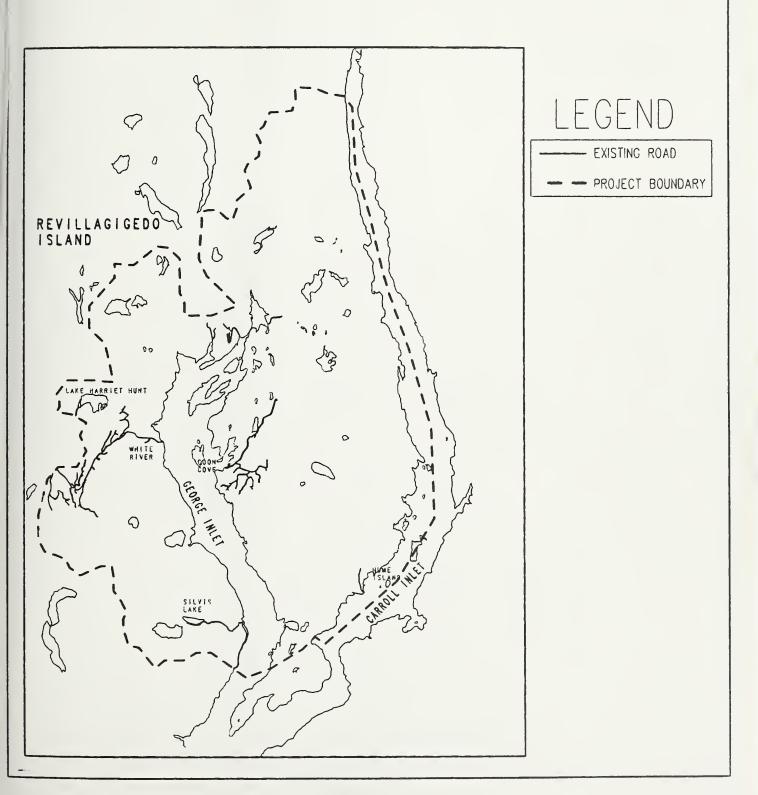
RECREATION AREAS

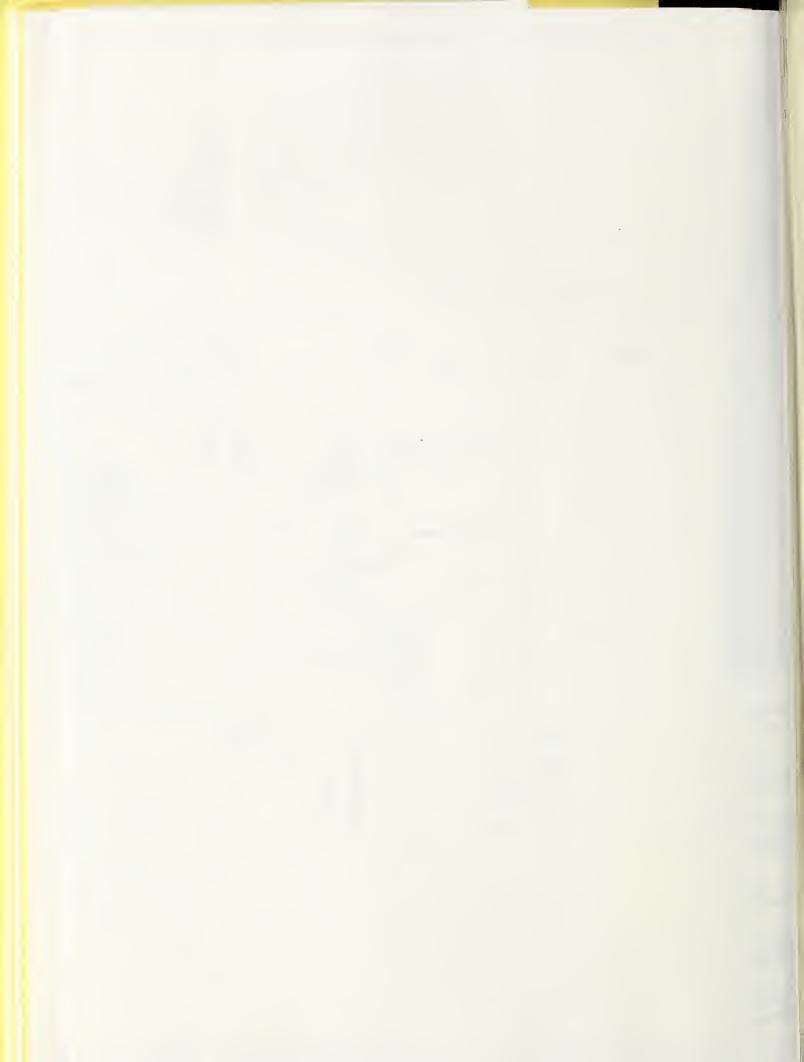




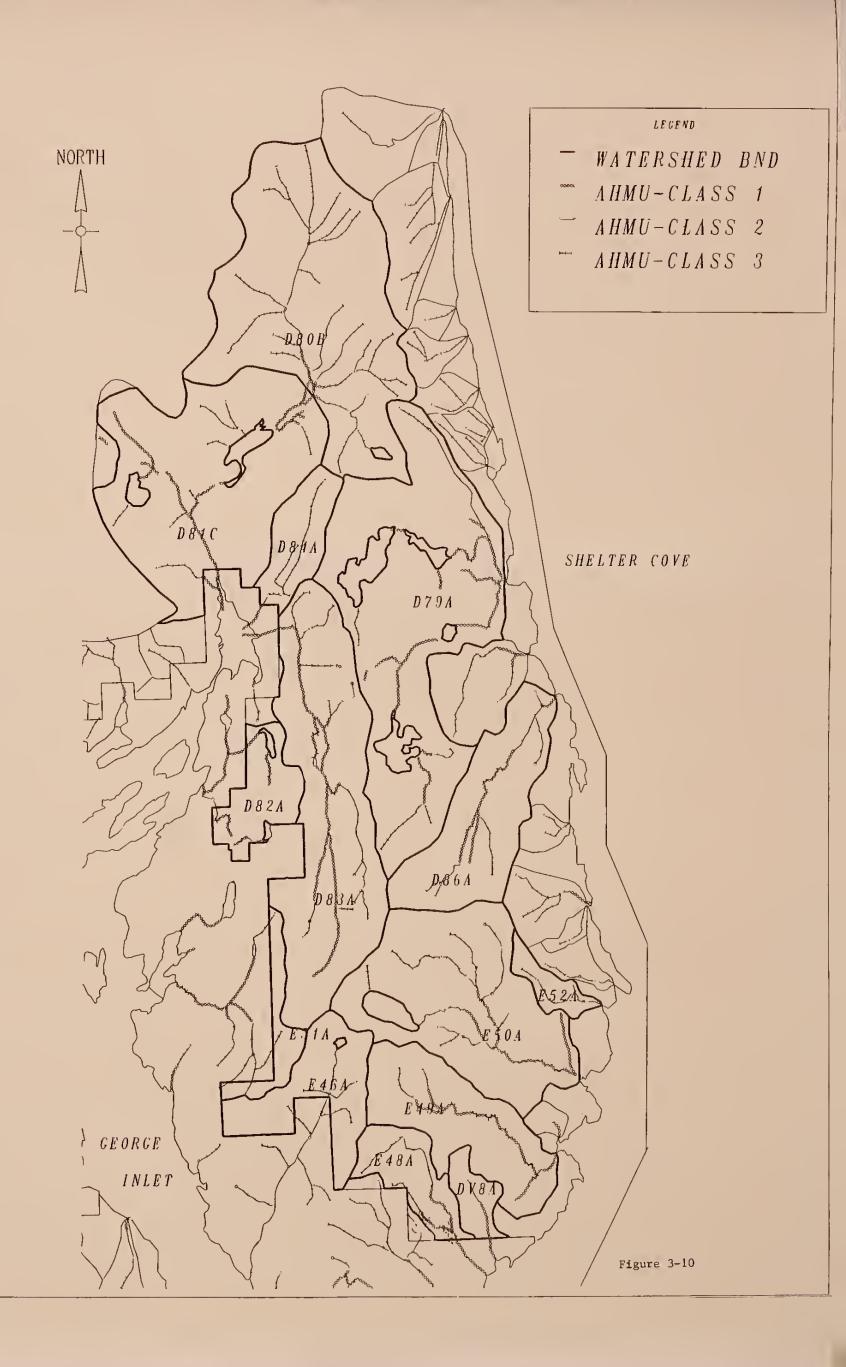
EXISTING ROADS

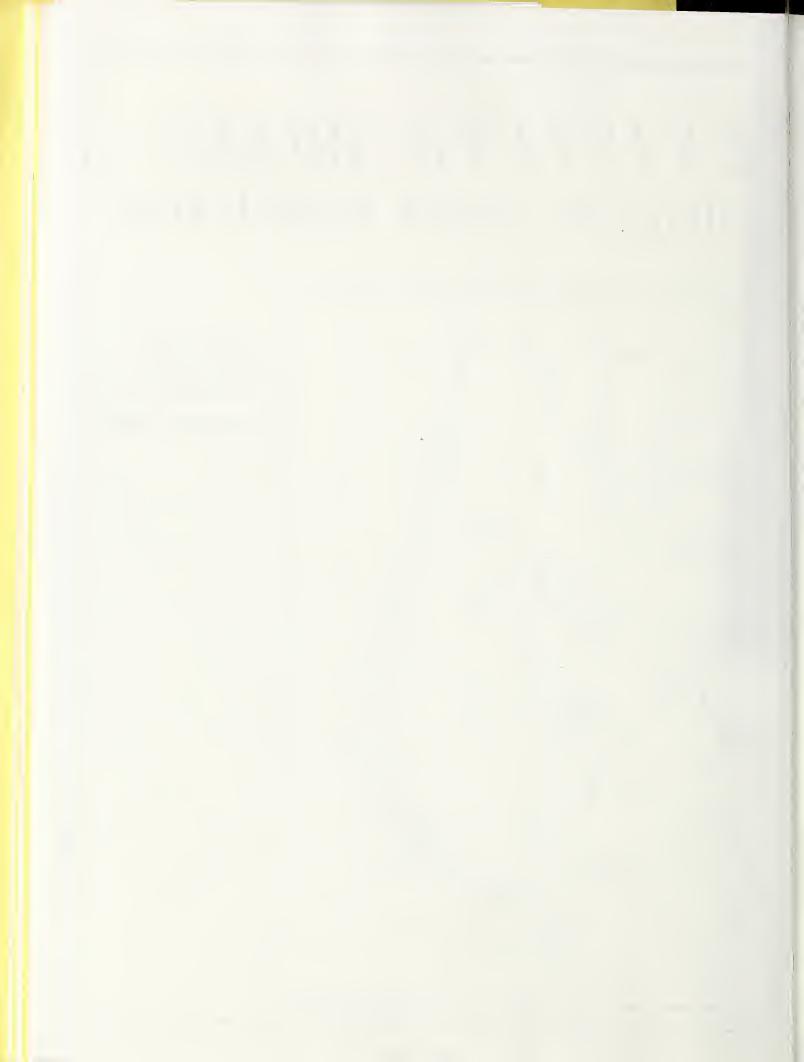
Revillagigedo Island Project Area





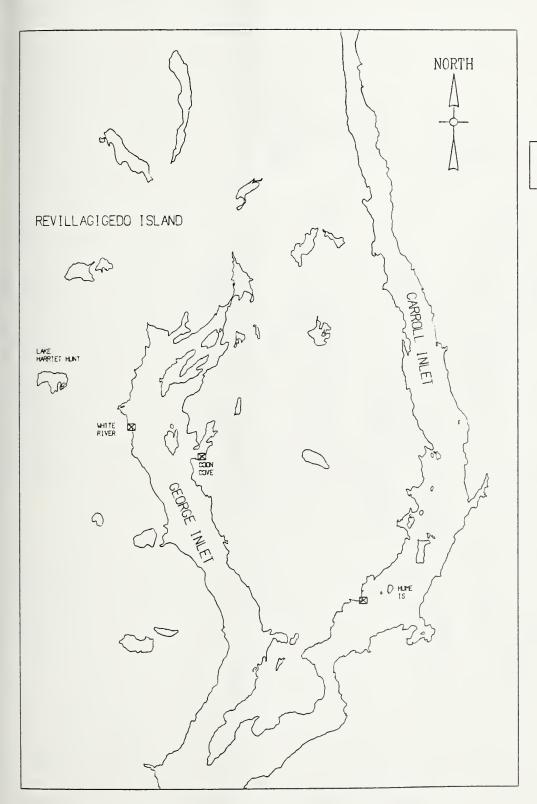
MAJOR WATERSHEDS





LOG TRANSFER FACILITIES

Revillagigedo Island Project Area

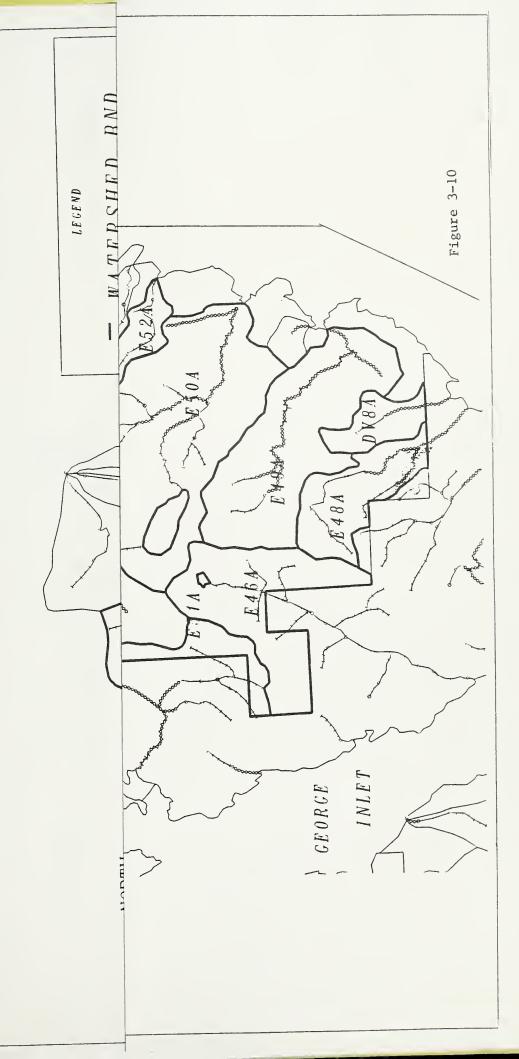


LTF LEGEND

EXISTING SITE

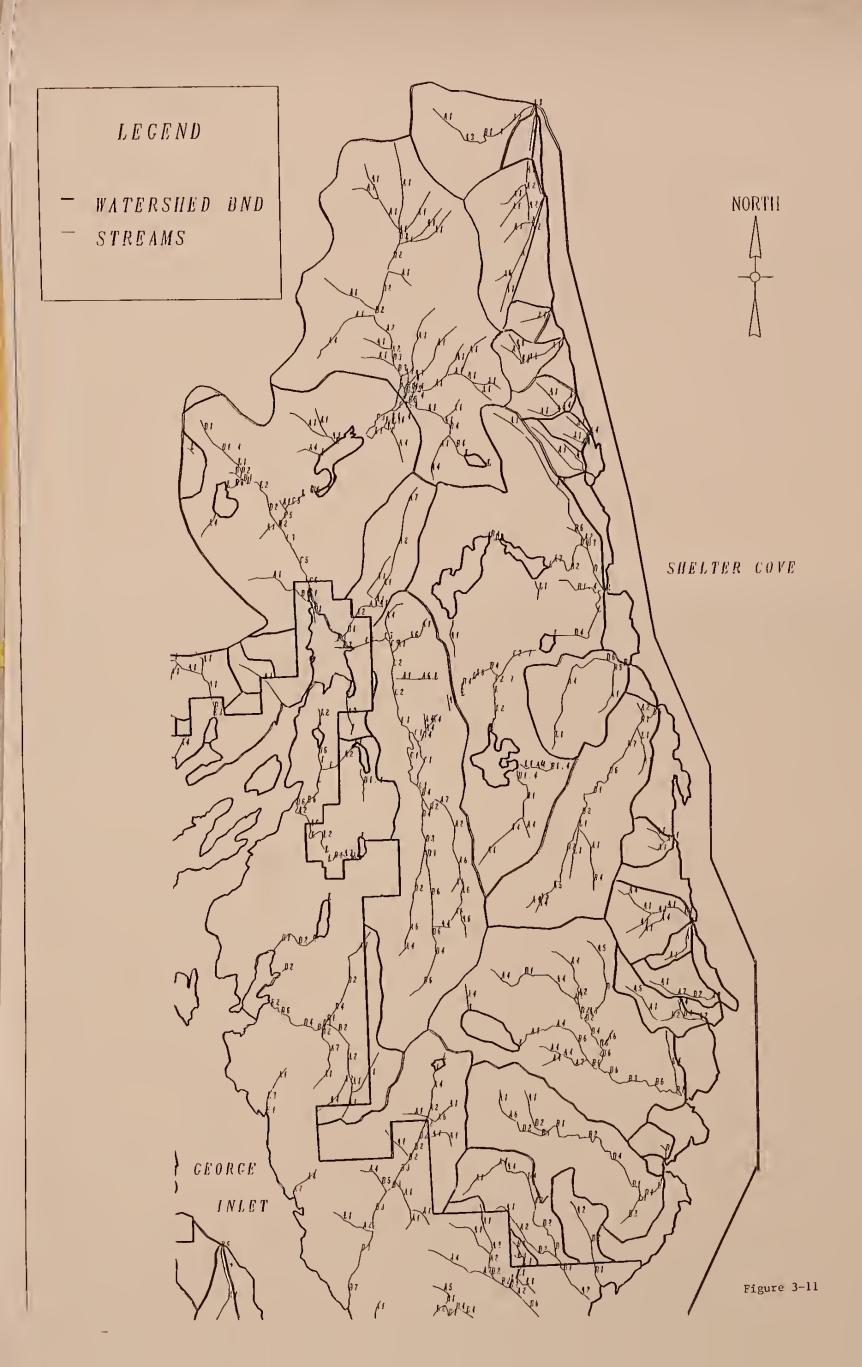


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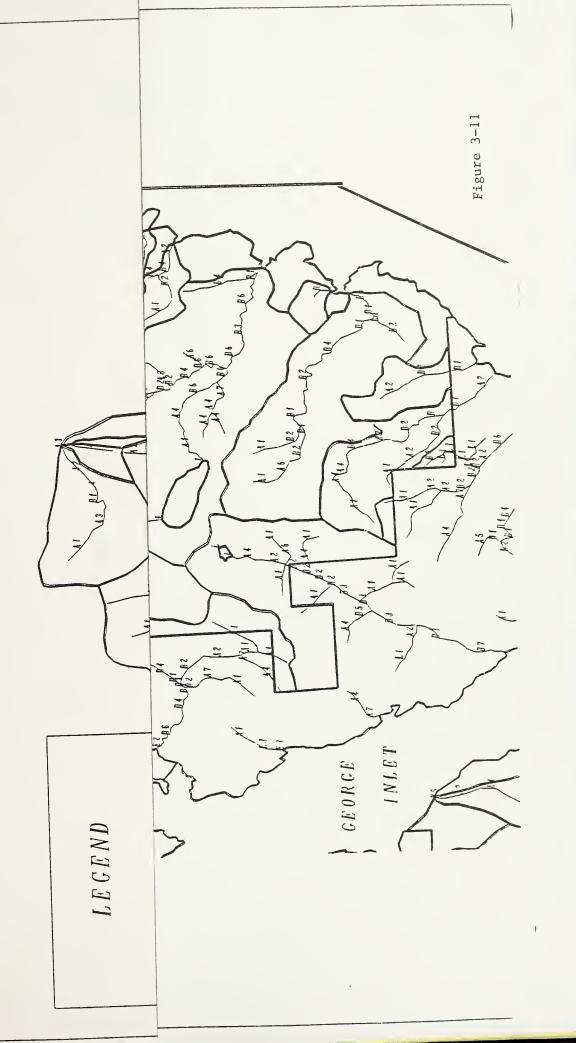


MAJOR CHANNEL TYPES



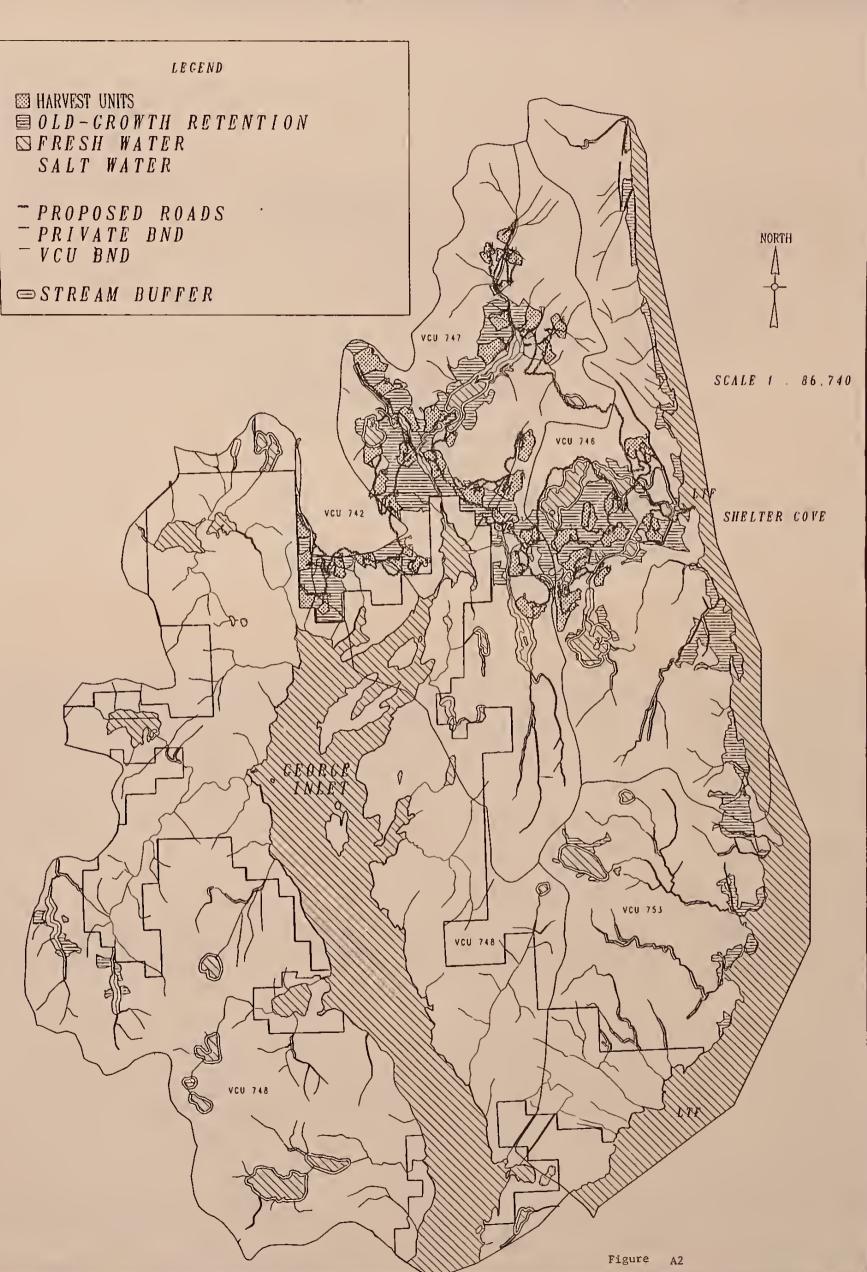


CHANNE





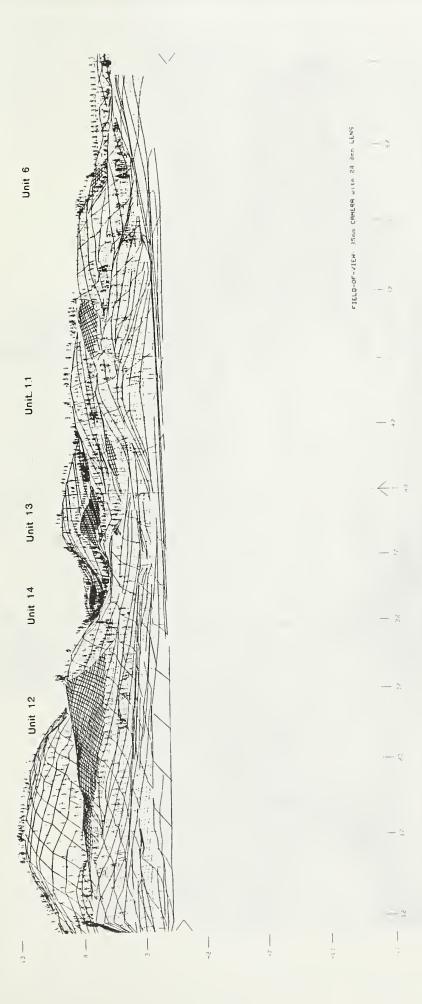
ALTERNATIVE 2

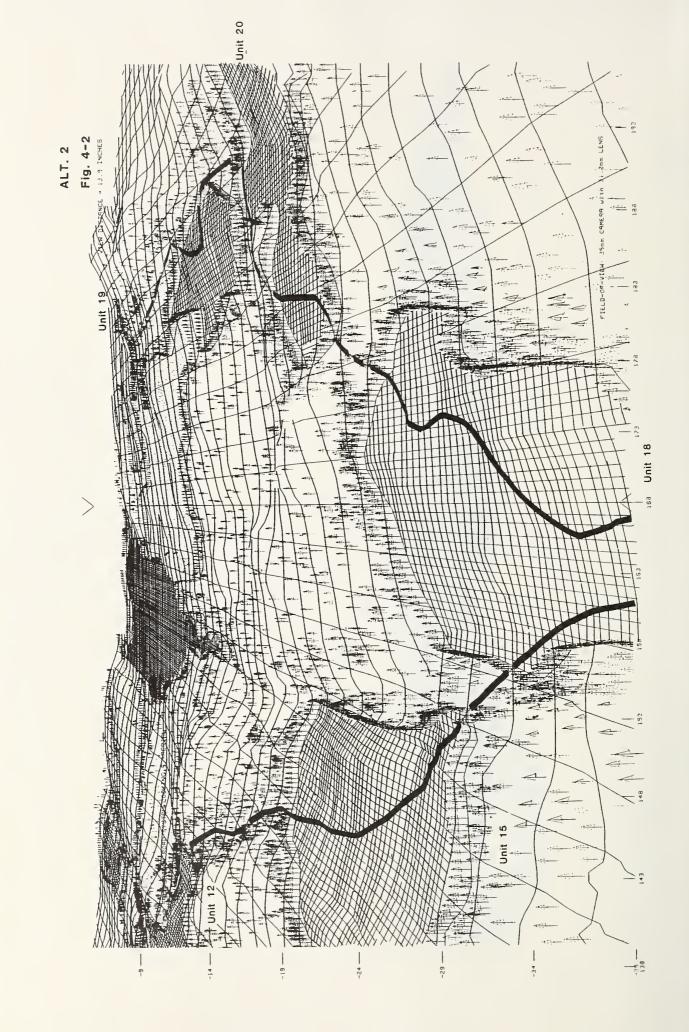




Chapter 4 Maps









VIEW DISTANCE - 12.8 INCHES

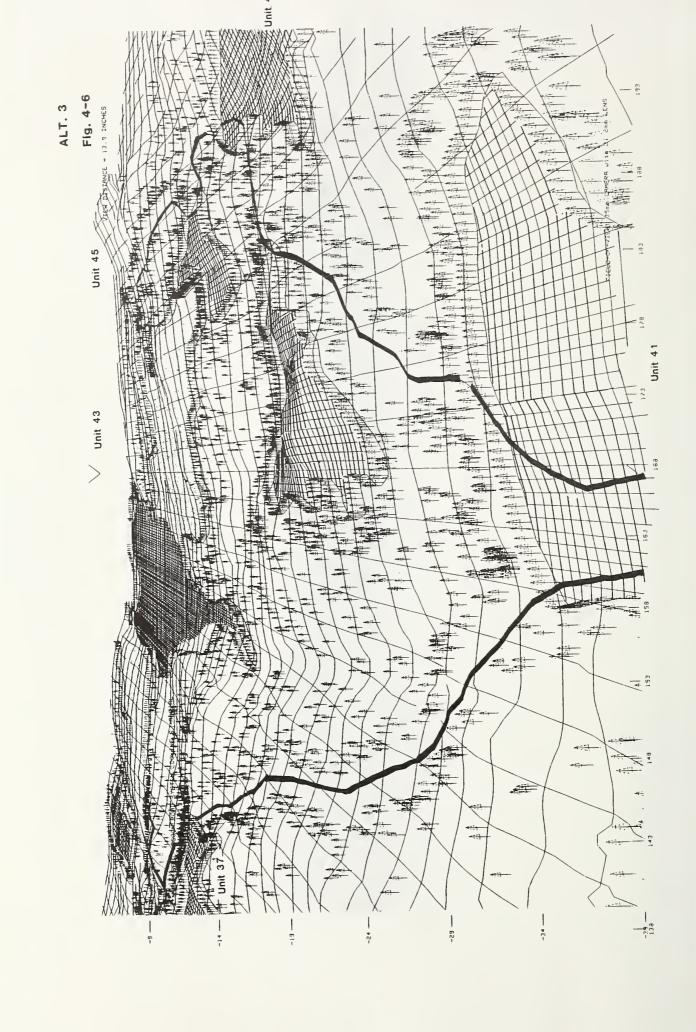
ALT. 3

Fig. 4-5

23

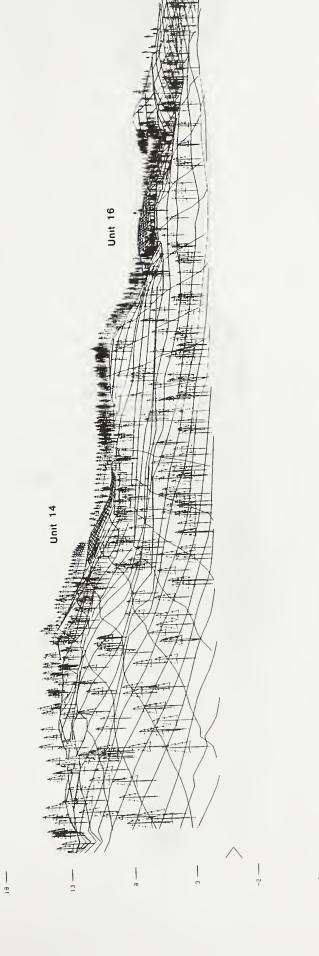
OUTLET OF SALT LAGOON LOOKING NE

1.8

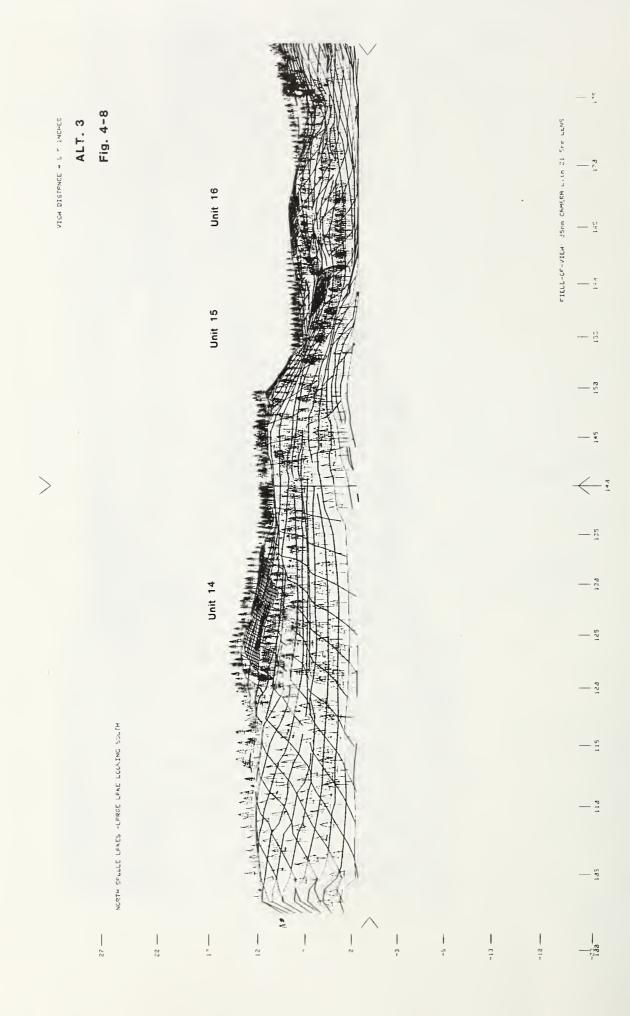


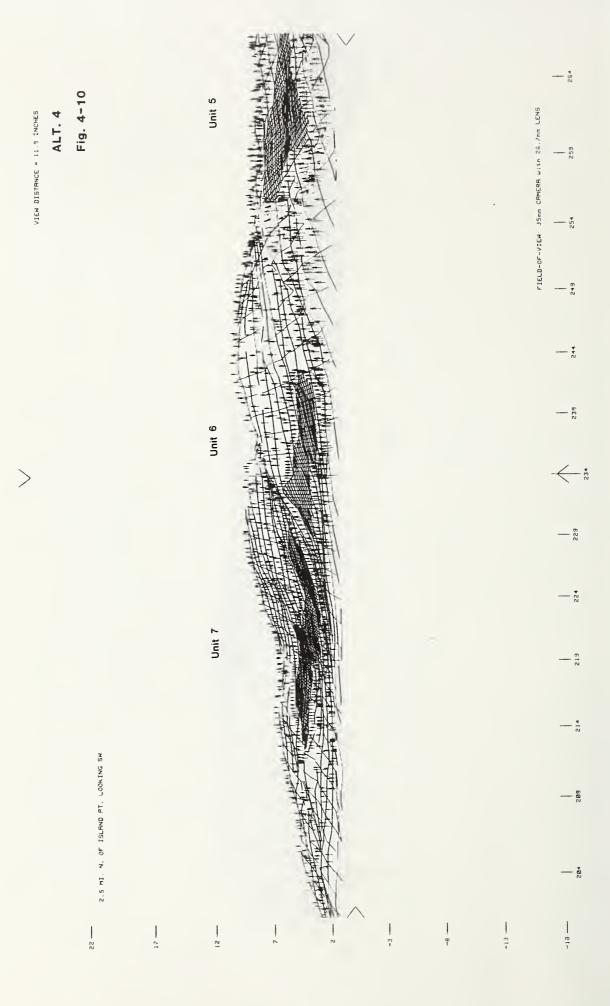
N. SADDLE LAKES- N. END LARGE LAKE LOOKING S.

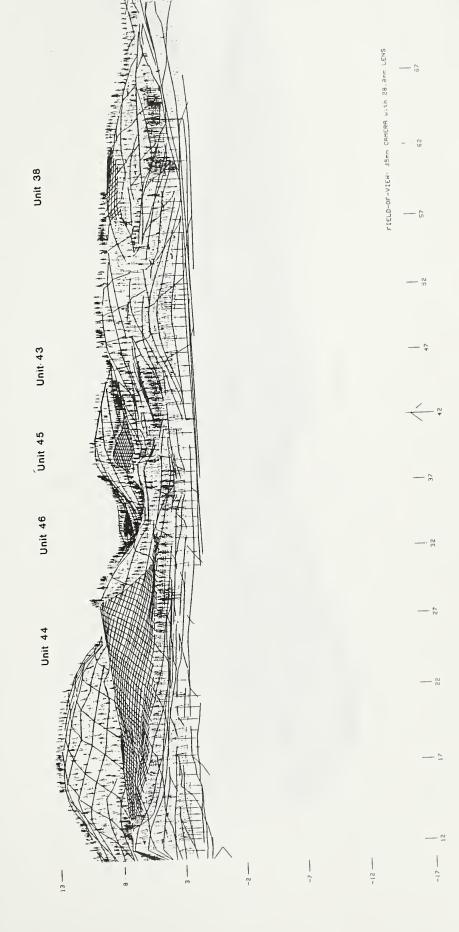
23



-38 FIELD-UF-VIEW: 35mm CAMERA with 28 3mm LENS -- 35 198 198 - 182 169 155 159







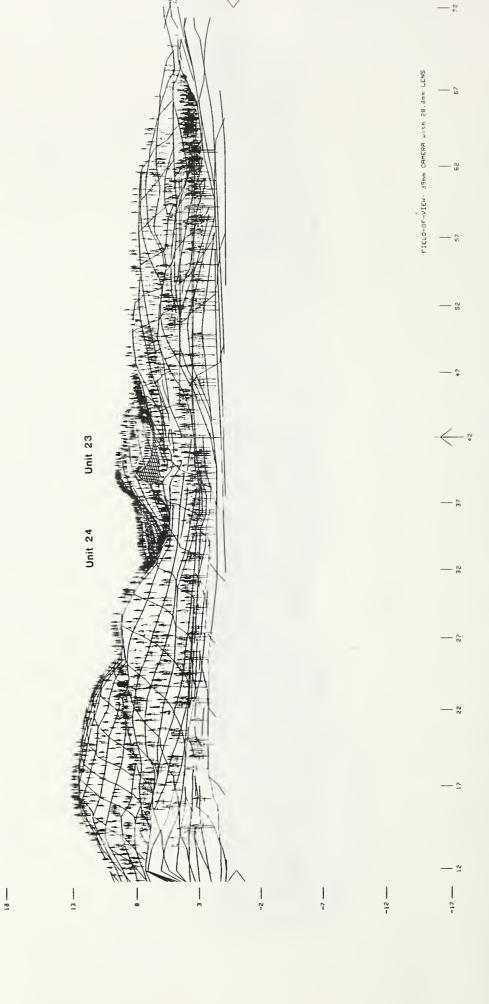


Fig. 4-12

OUTLET OF SALT LAGOON LOOKING NE

23

ALT. 5

JIEM DISTANCE - 12.3 INCHES

Fig. 4-13

ALT. 6

ERST OF SHELTER COVE- LOOKING NW 29

15 ---

Unit 19 18

Unit 20

Unit 22

Unit 23

-13

-15

385

- 222

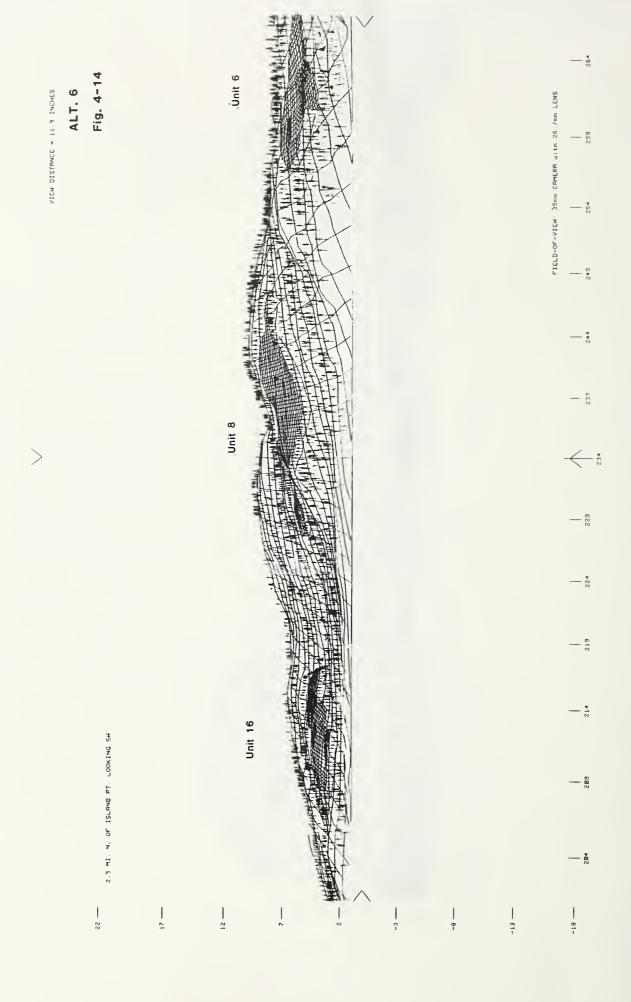
- 272

--- 582

262

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- E

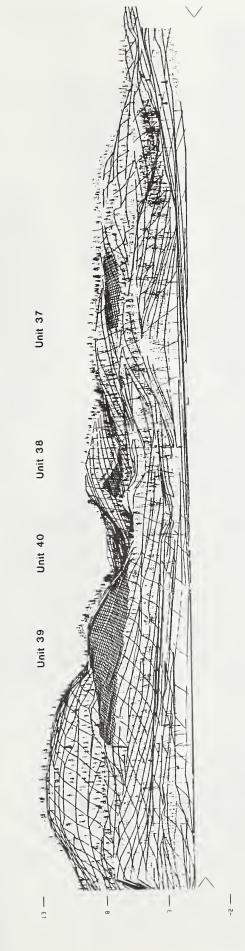


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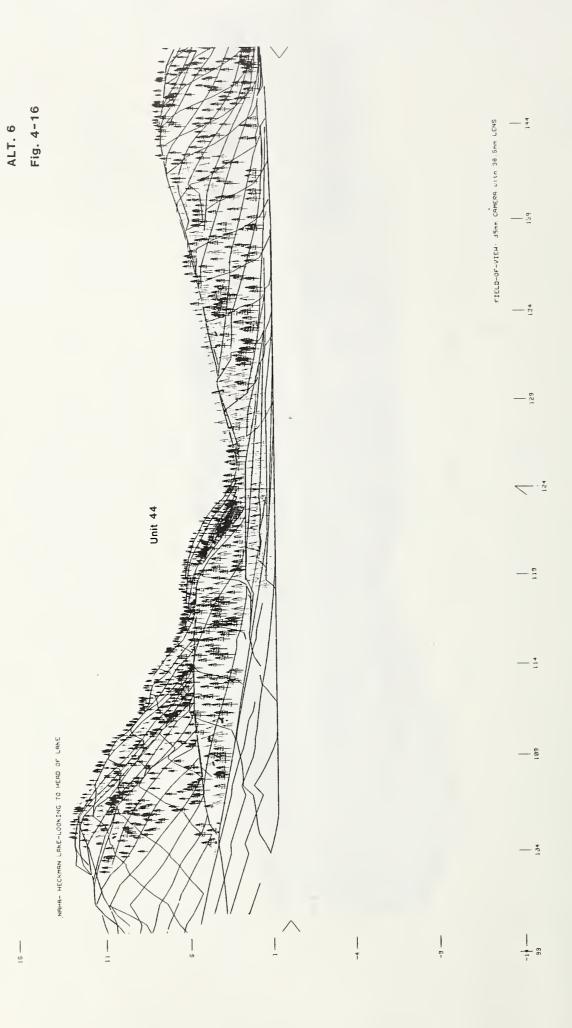
JUTLET OF SPLT LFGTON LOCKING NE

5

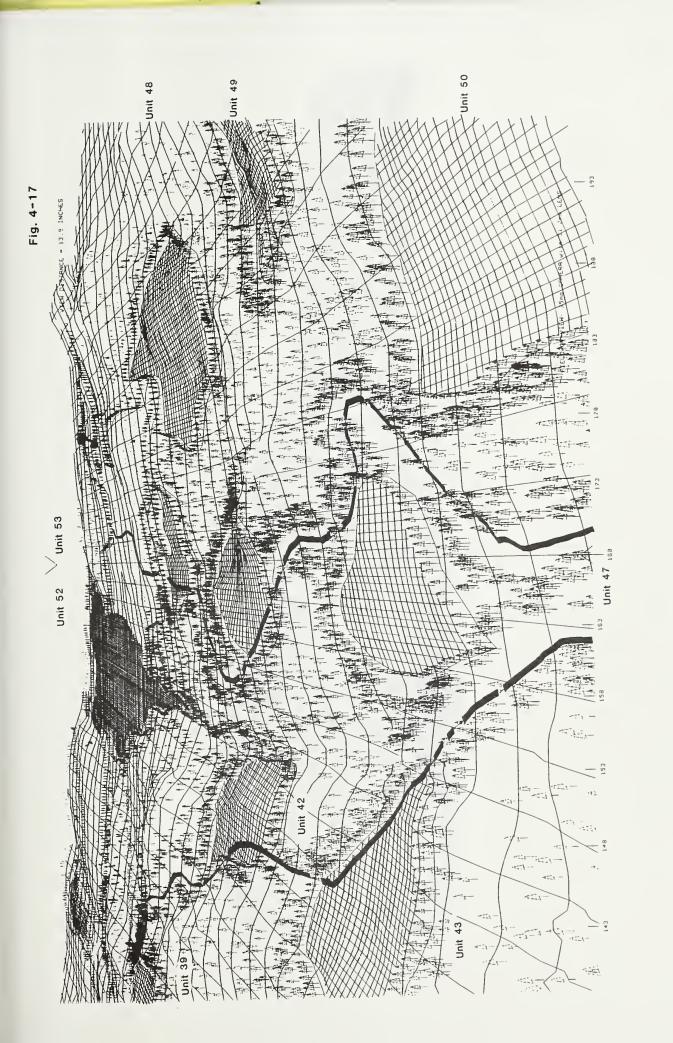
1 2

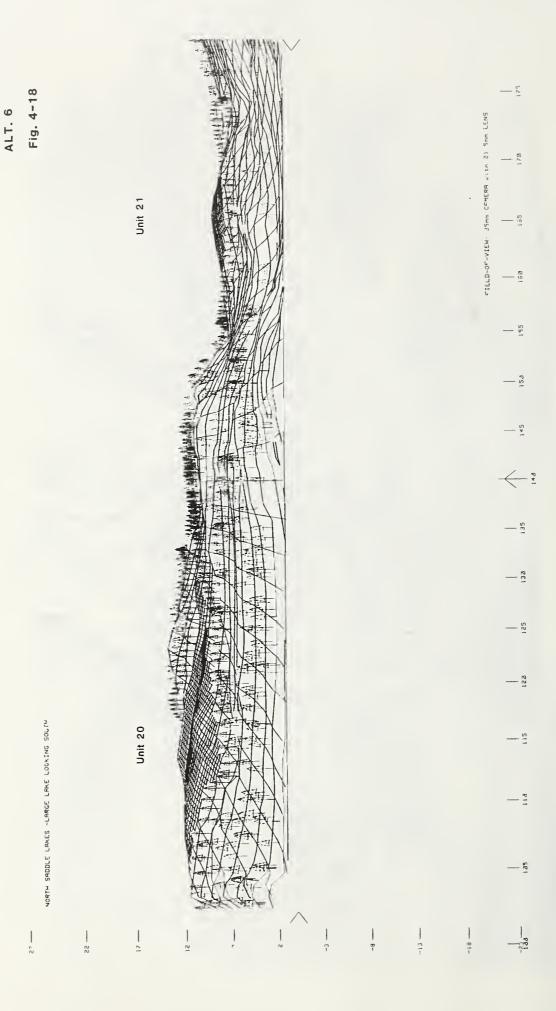


FIELE-OF-VIEW SAM CPHERF WILD 29 PER LENS -- 52



VIEW BISTANCE # 17.2 INCHES





VIEW DISTANCE - 9.7 INCHES

Fig. 4-19

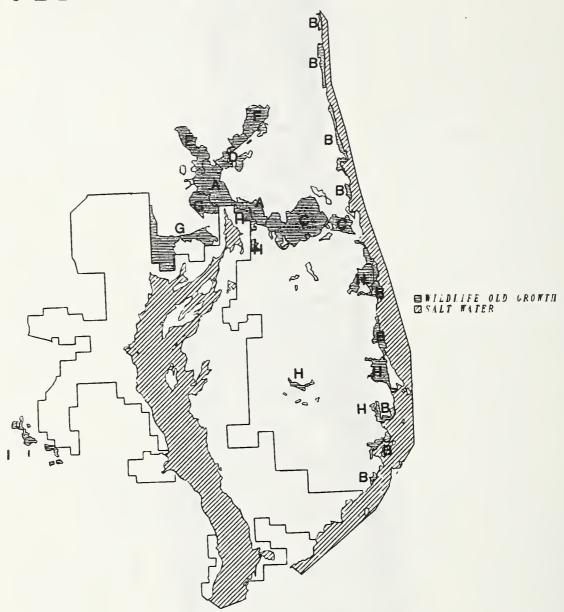
N. SADDLE LAKES- N. END LARGE LAKE LOOKING S.

23 —

ALT. 6

-- 85 83 FIELD-OF-VIEW: 35mm CAMERA with 28.0mm LENS - 192 Unit 21 -- 18 g --- 165 - .5 Unit 20 158

PROPOSED OLD GROWTH AREAS



ALTERNATIVE 2 WILDLIFE OLD GROWTH



Fig. 4-21

ALTERNATIVE 3 WILDLIFE OLD GROWTH

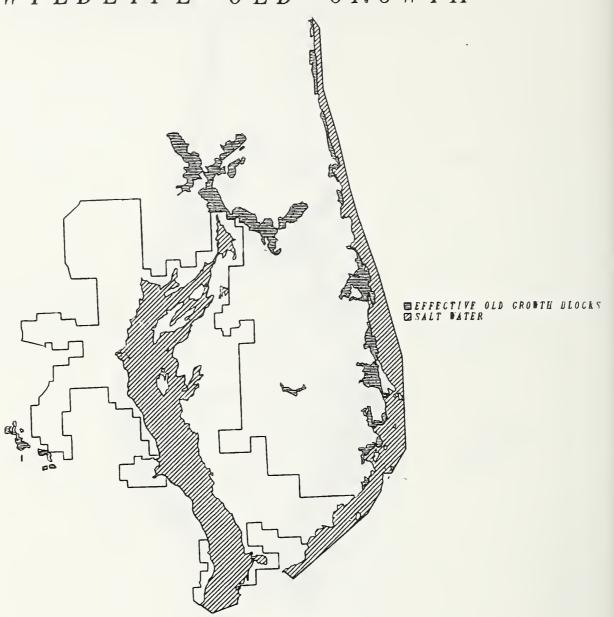


Fig. 4-22

ALTERNATIVE 4 WILDLIFE OLD GROWTH



Fig. 4-23

ALTERNATIVE 5 WILDLIFE OLD GROWTH

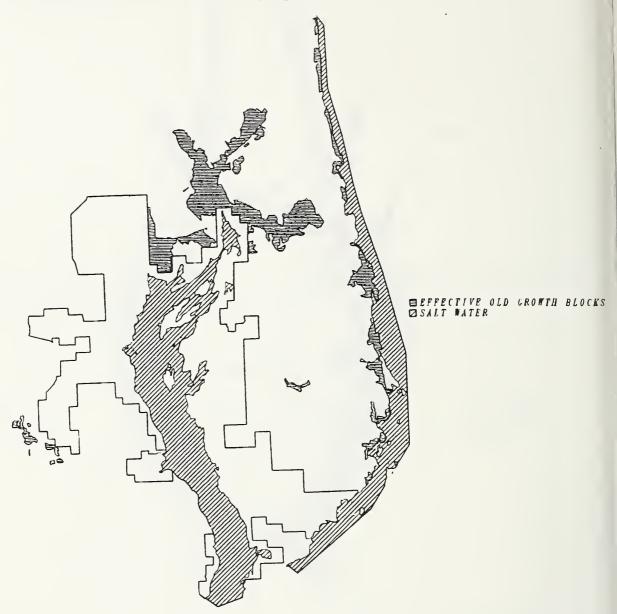


Fig. 4-24

ALTERNATIVE 6 WILDLIFE OLD GROWTH

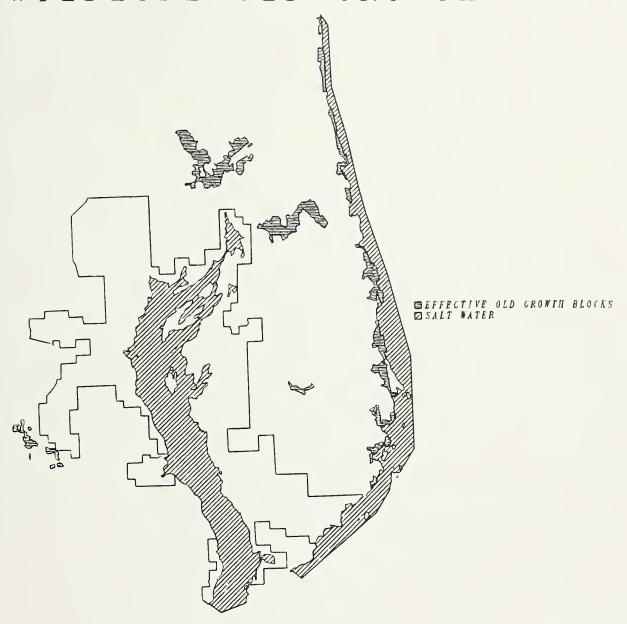
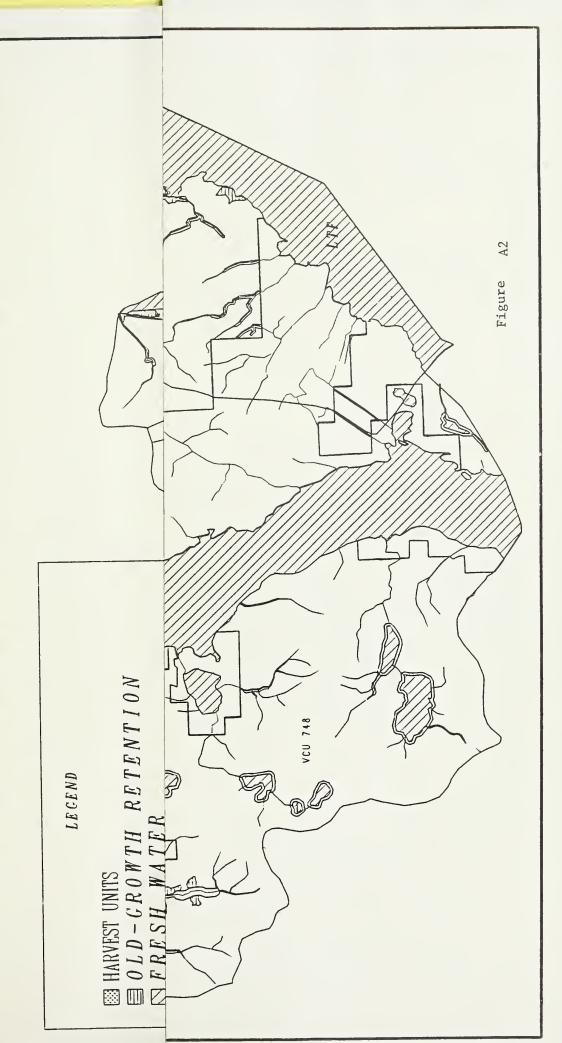


Fig. 4-25



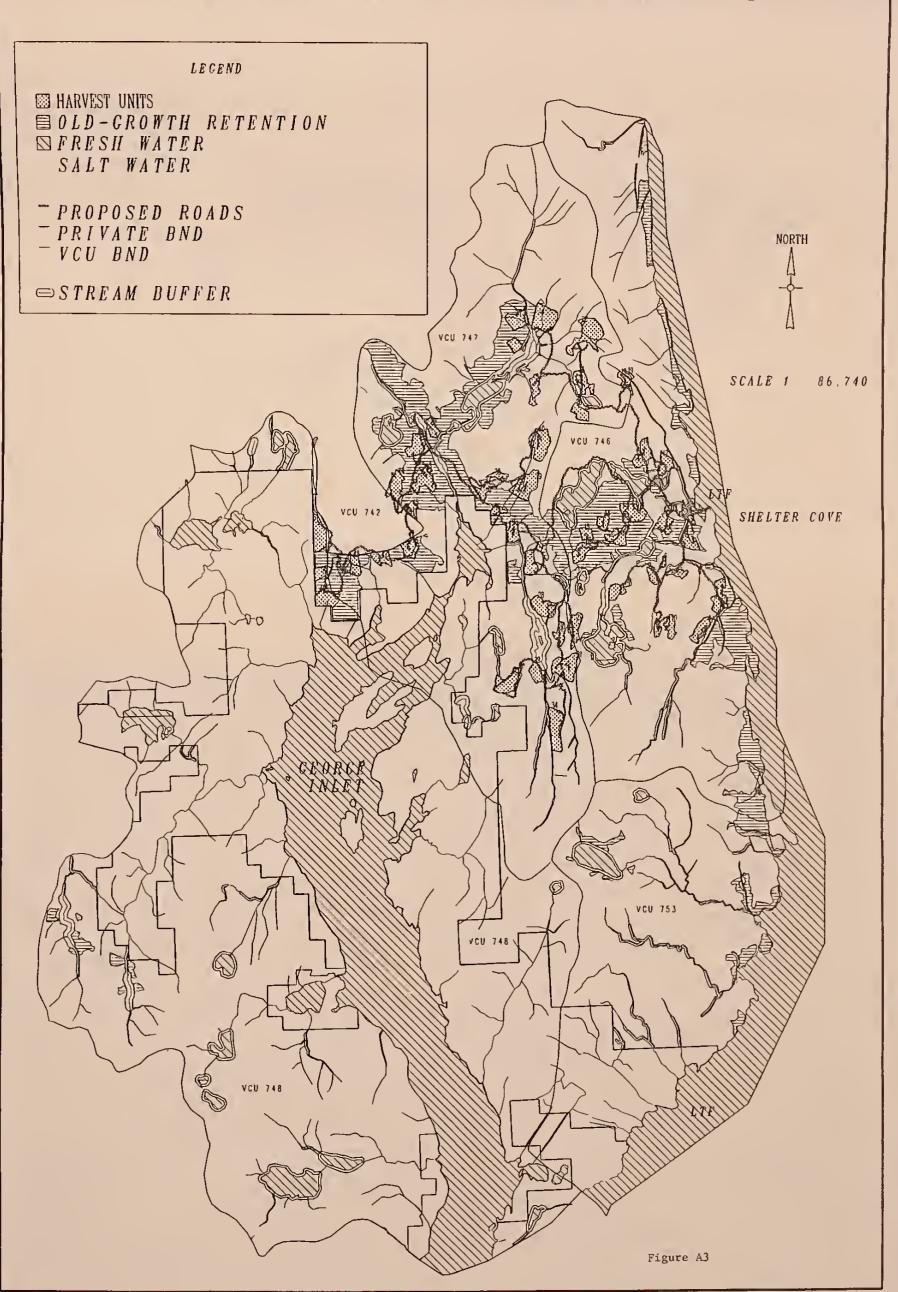
Alternative Maps







ALTERNATIVE 3





LECEND

RETENTION \square HARVEST UNITS \square 0 L D - C R 0 W T H \square F R E S H W A T E R



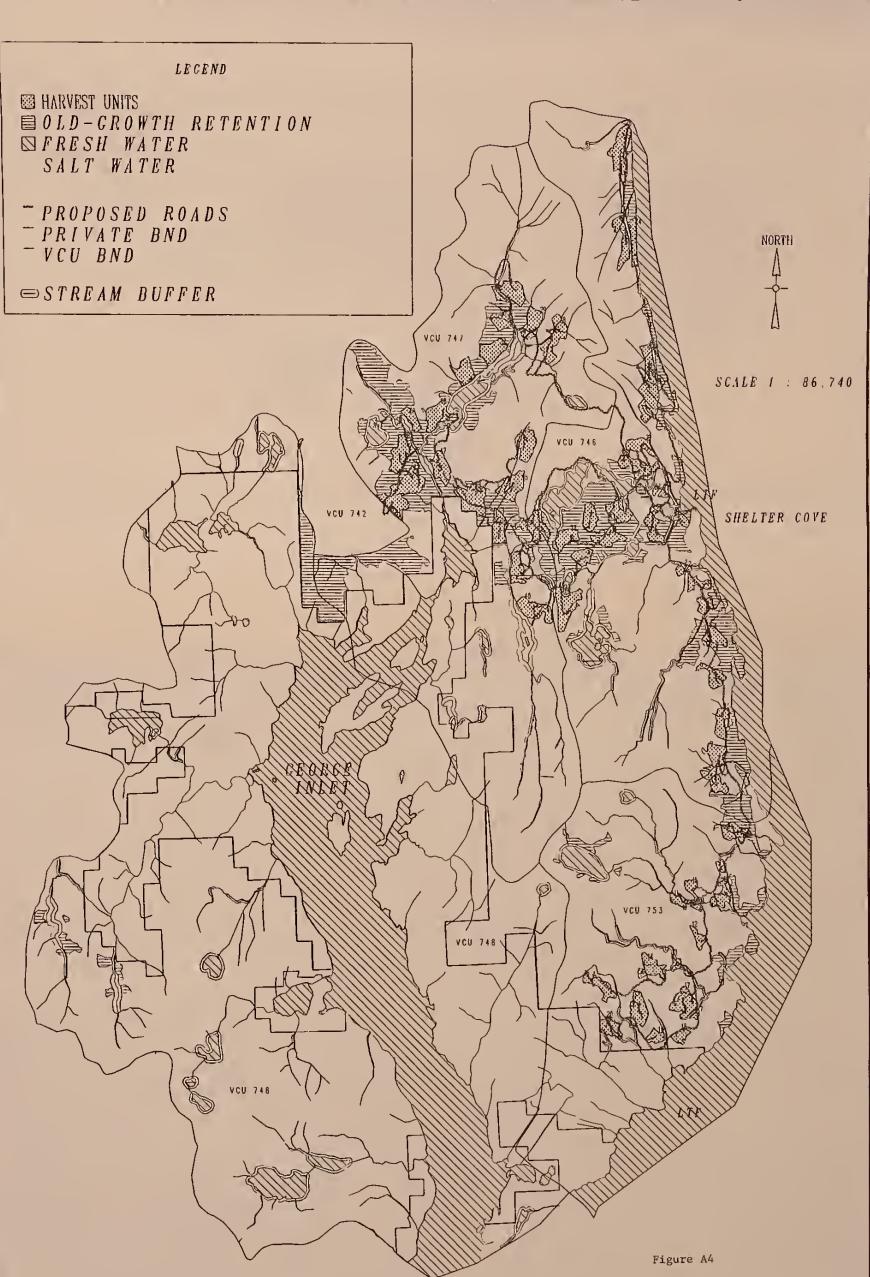


VCU 748

Figure A3

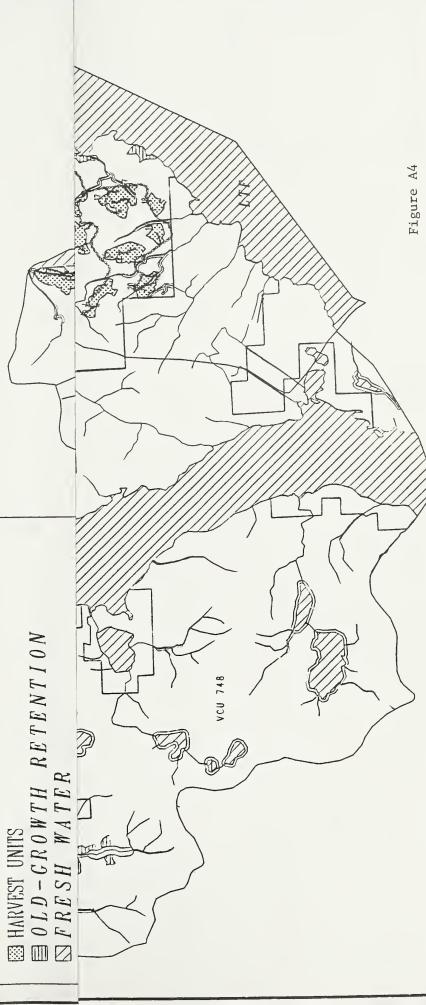


ALTERNATIVE 4



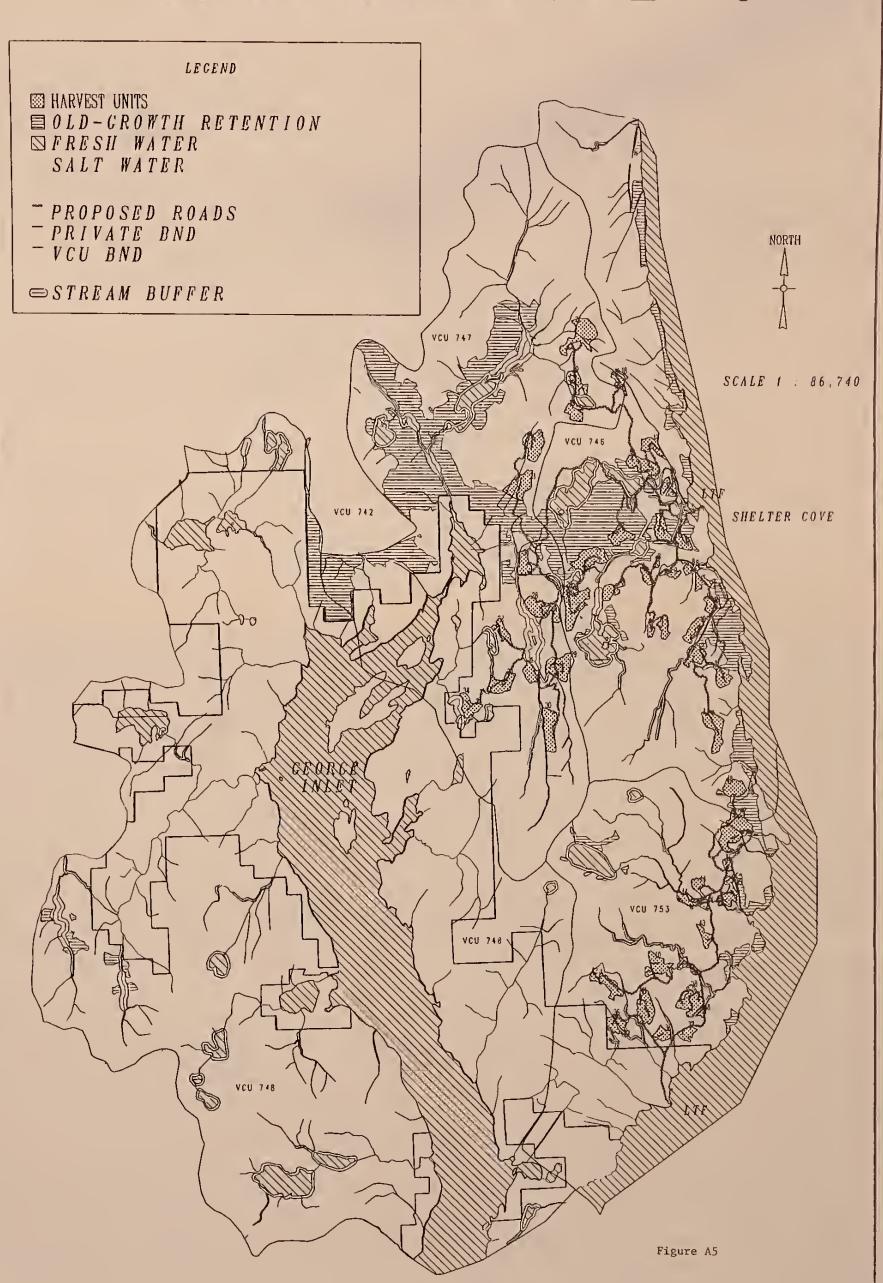


LECEND



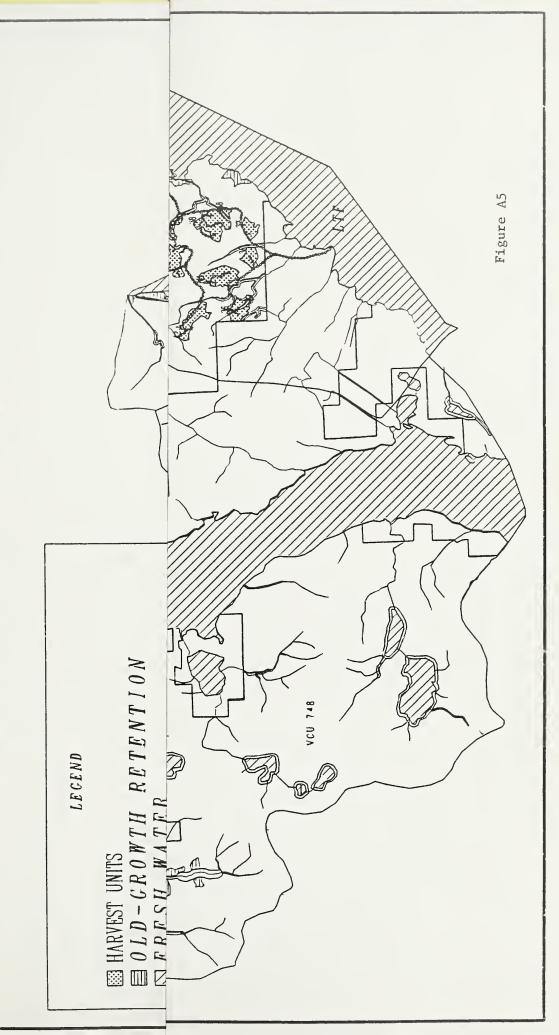


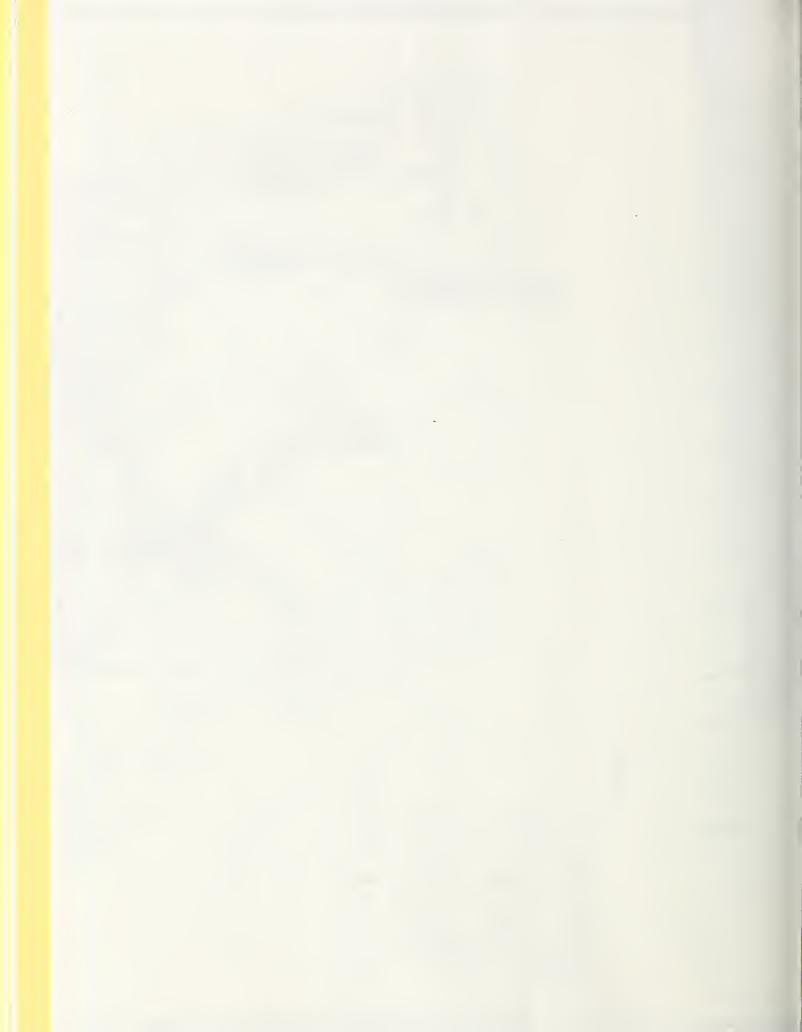
ALTERNATIVE 5





A L L E R N A L T





ALTERNATIVE 6

