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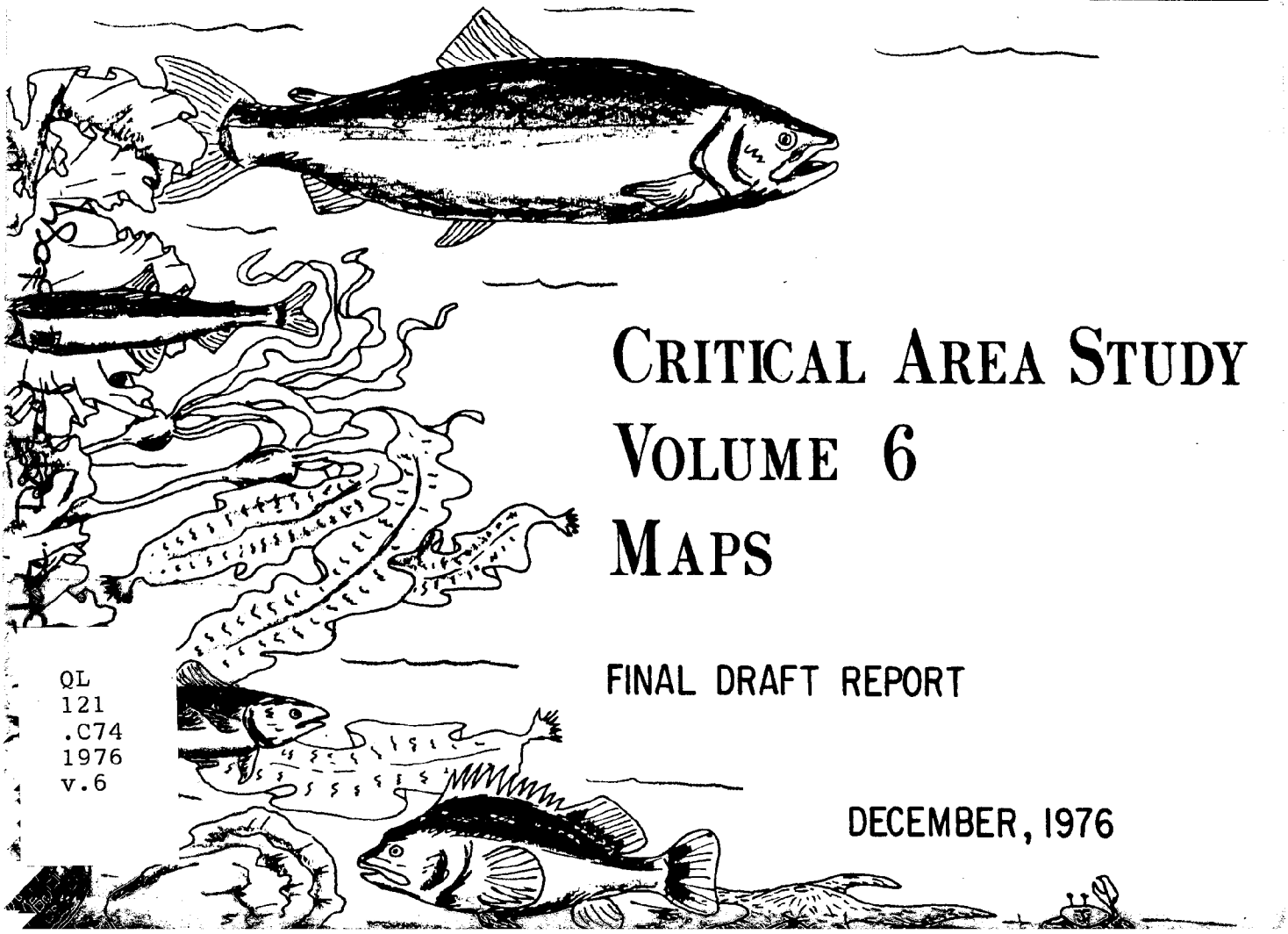
State of
Coastal Zone Information Center

BASELINE STUDY PROGRAM

COASTAL ZONE
INFORMATION CENTER



CRITICAL AREA STUDY
VOLUME 6
MAPS

FINAL DRAFT REPORT

DECEMBER, 1976

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COASTAL ZONE
INFORMATION CENTER

AUG 15 1977

VOLUME VI

MAPS OF CRITICAL AREAS

U.S. DEPARTMENT OF COMMERCE NOAA
COASTAL SERVICES CENTER
2234 SOUTH HOBSON AVENUE
CHARLESTON, SC 29405-2413

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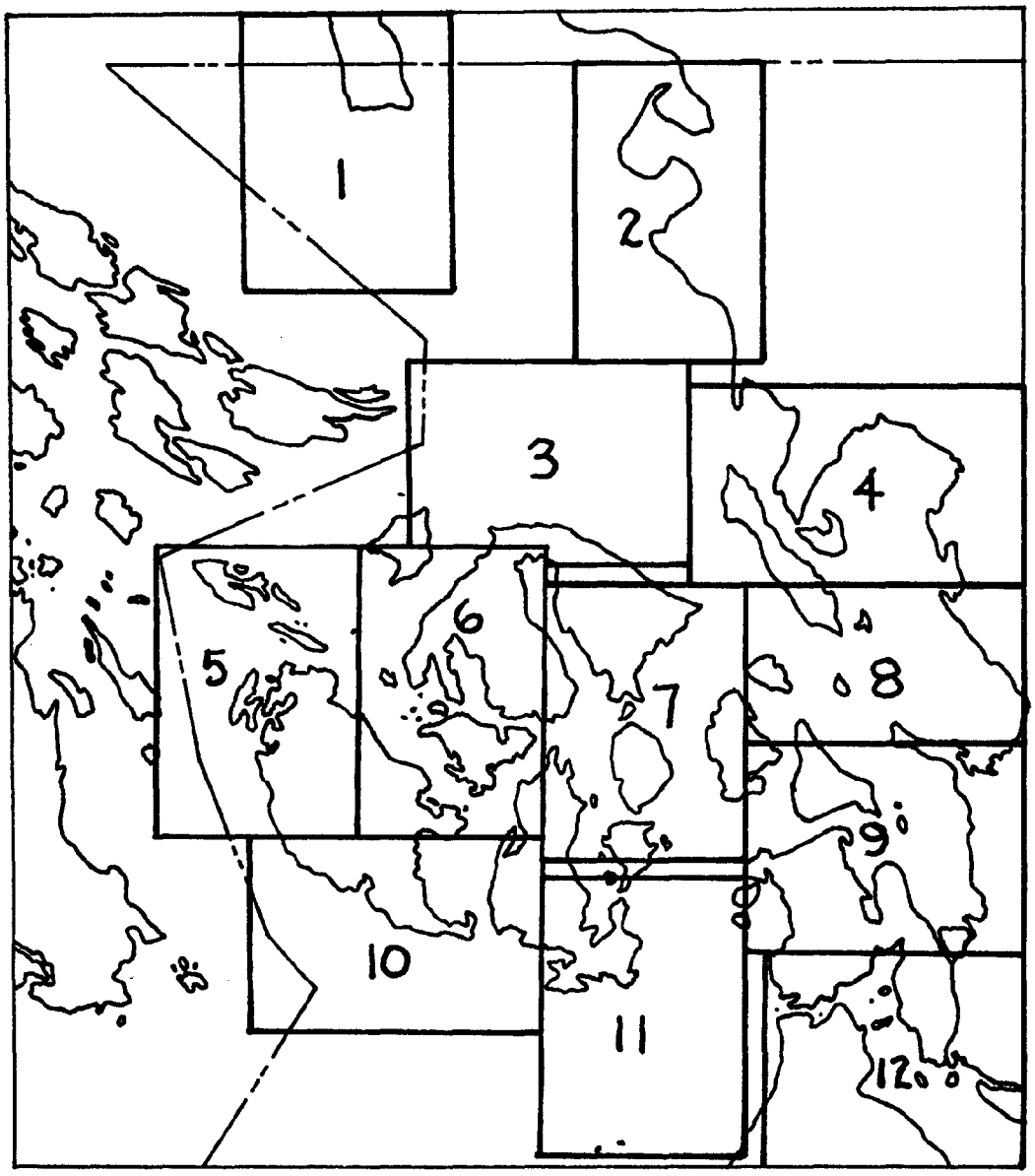
Washington. State. Dept. of Ecology

SHEET INDEX



STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA (NOAA CHART 18421)

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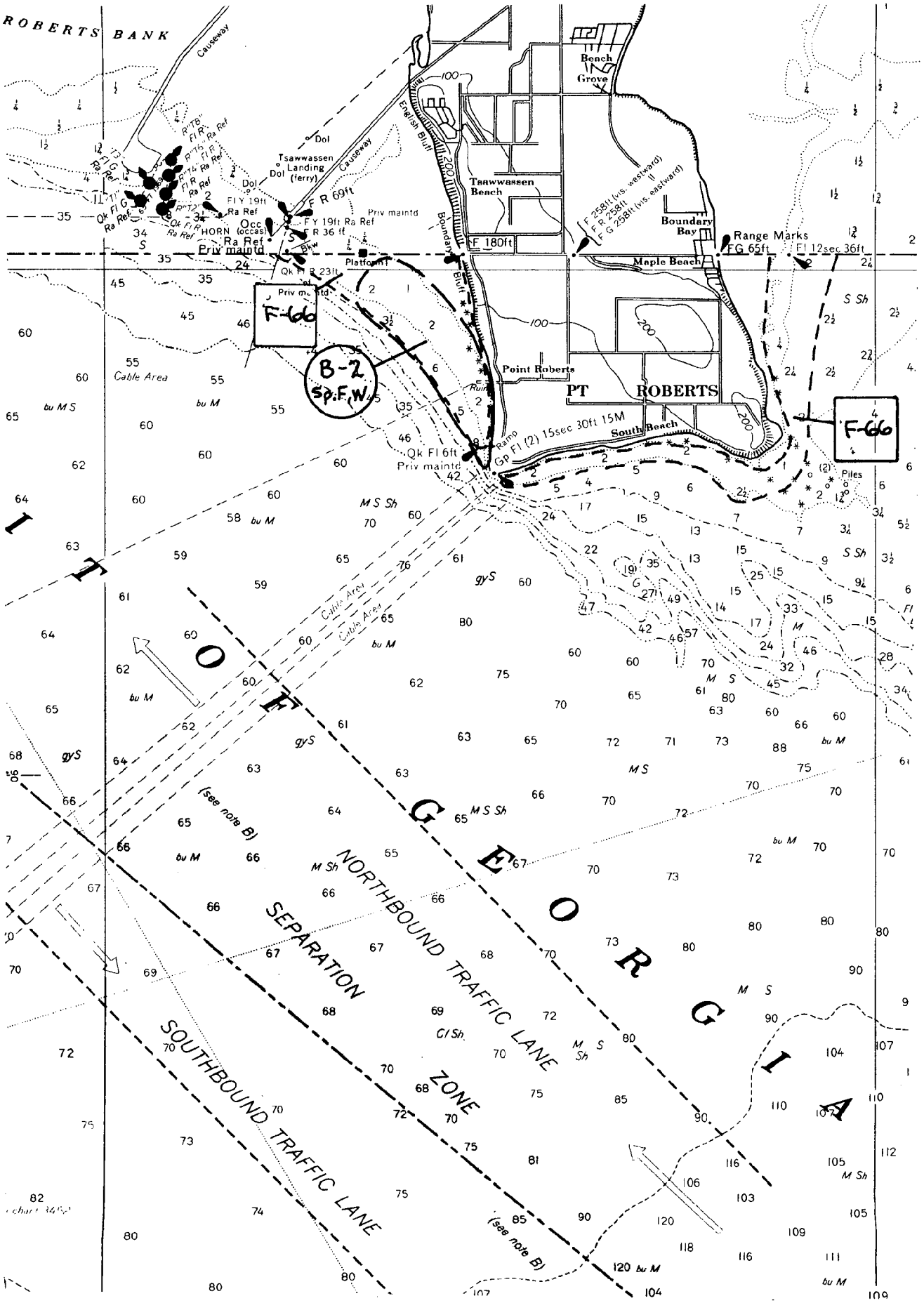

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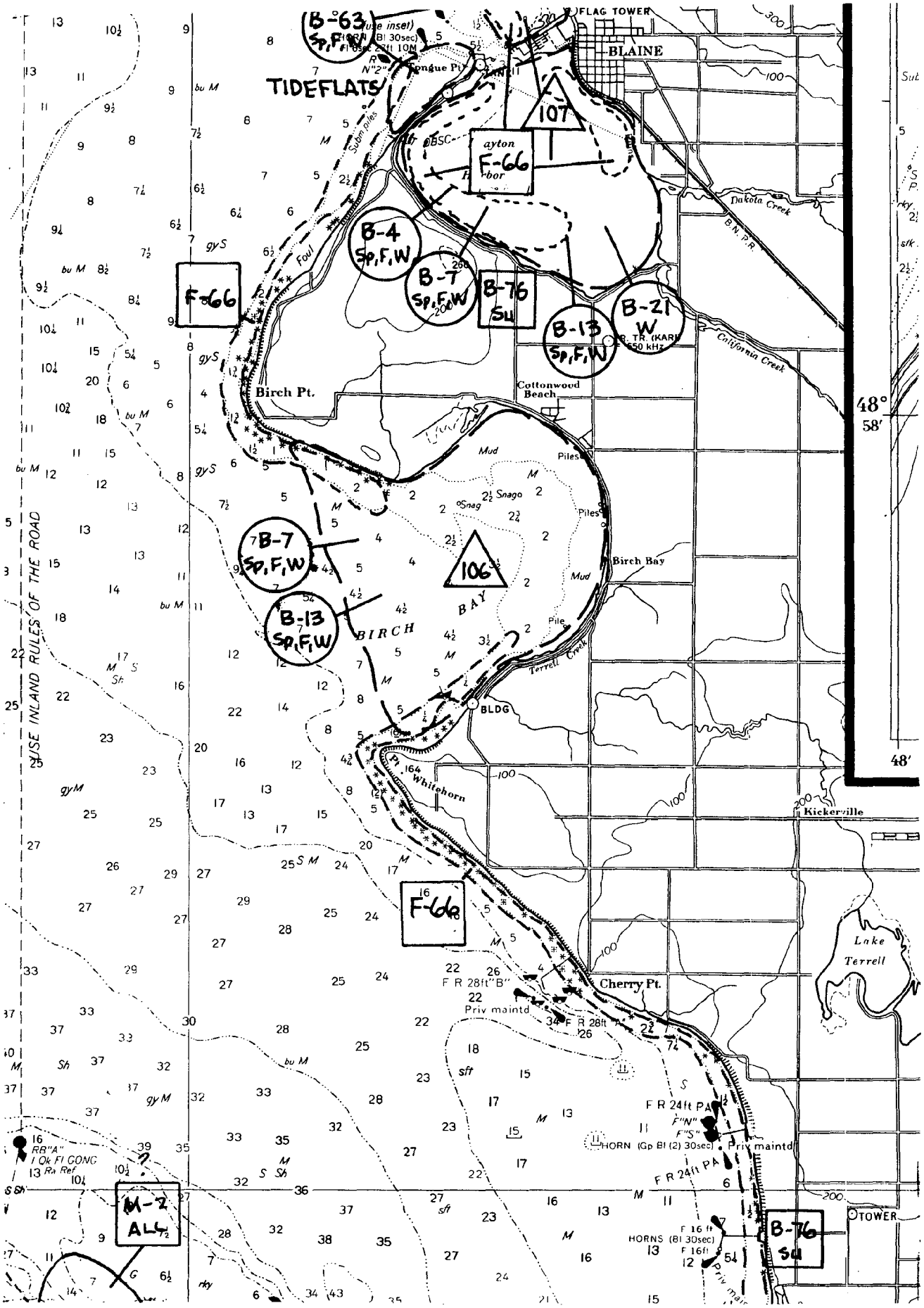
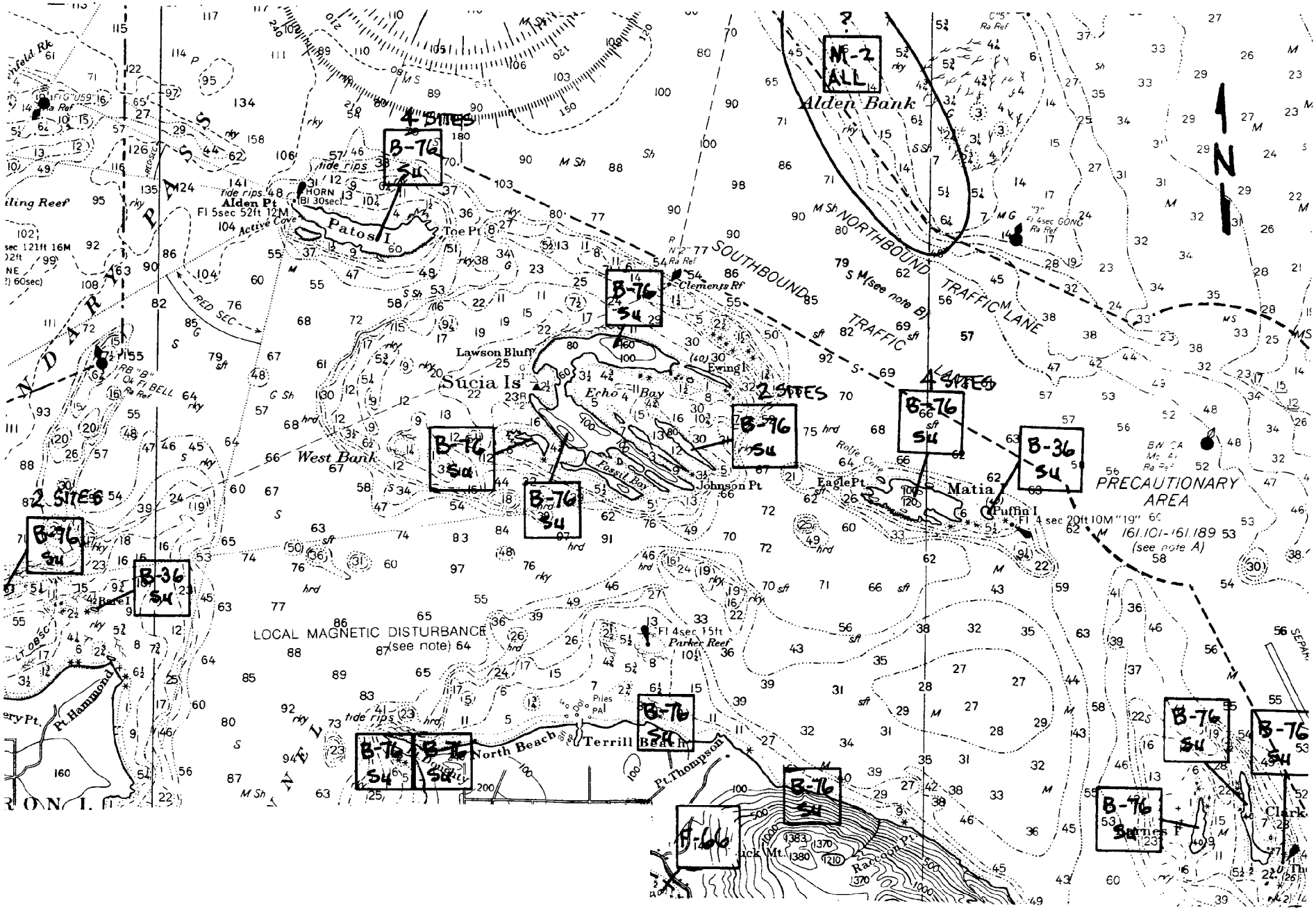


SHEET 2 STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA

SHEET 3 STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA



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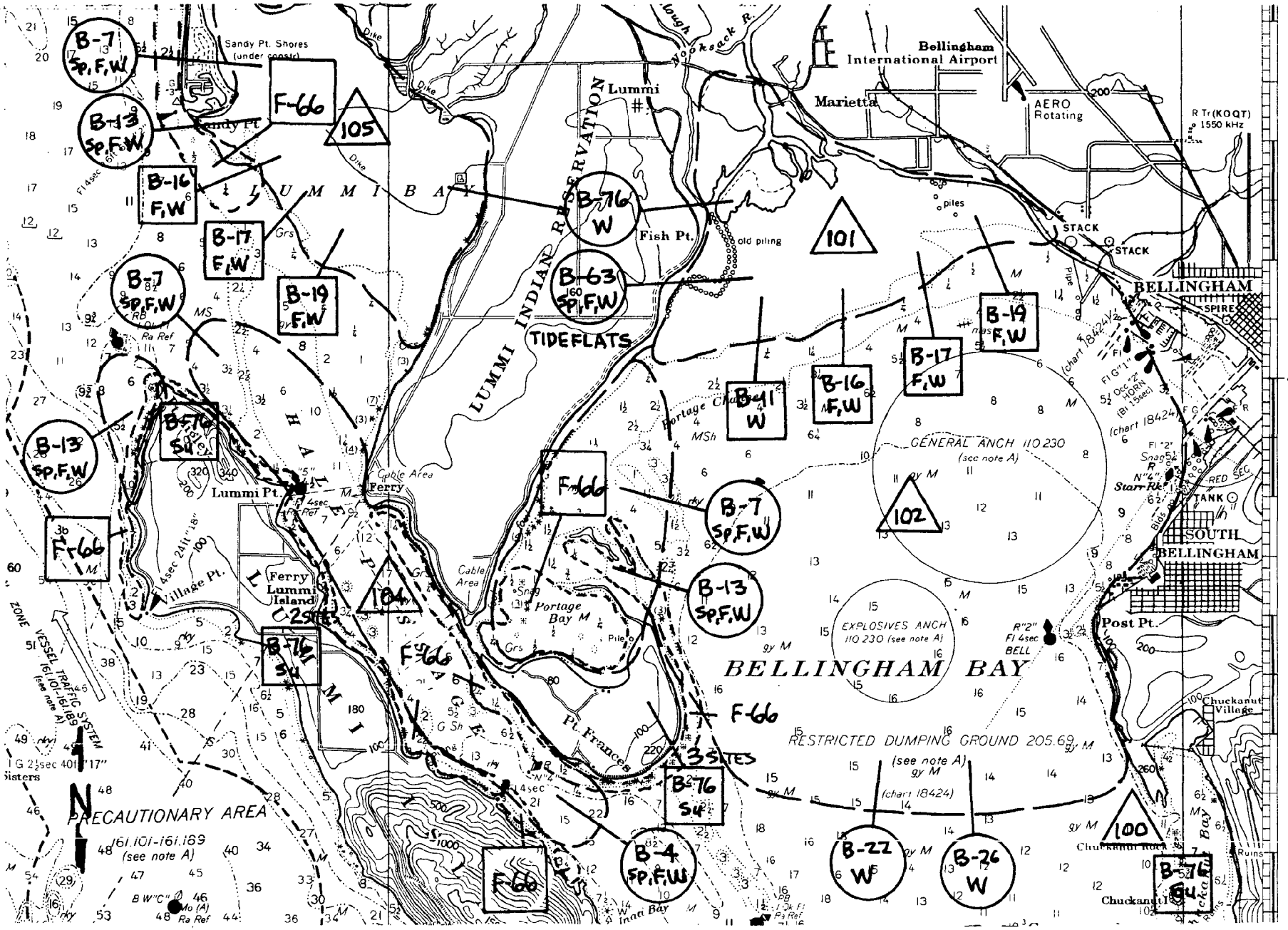

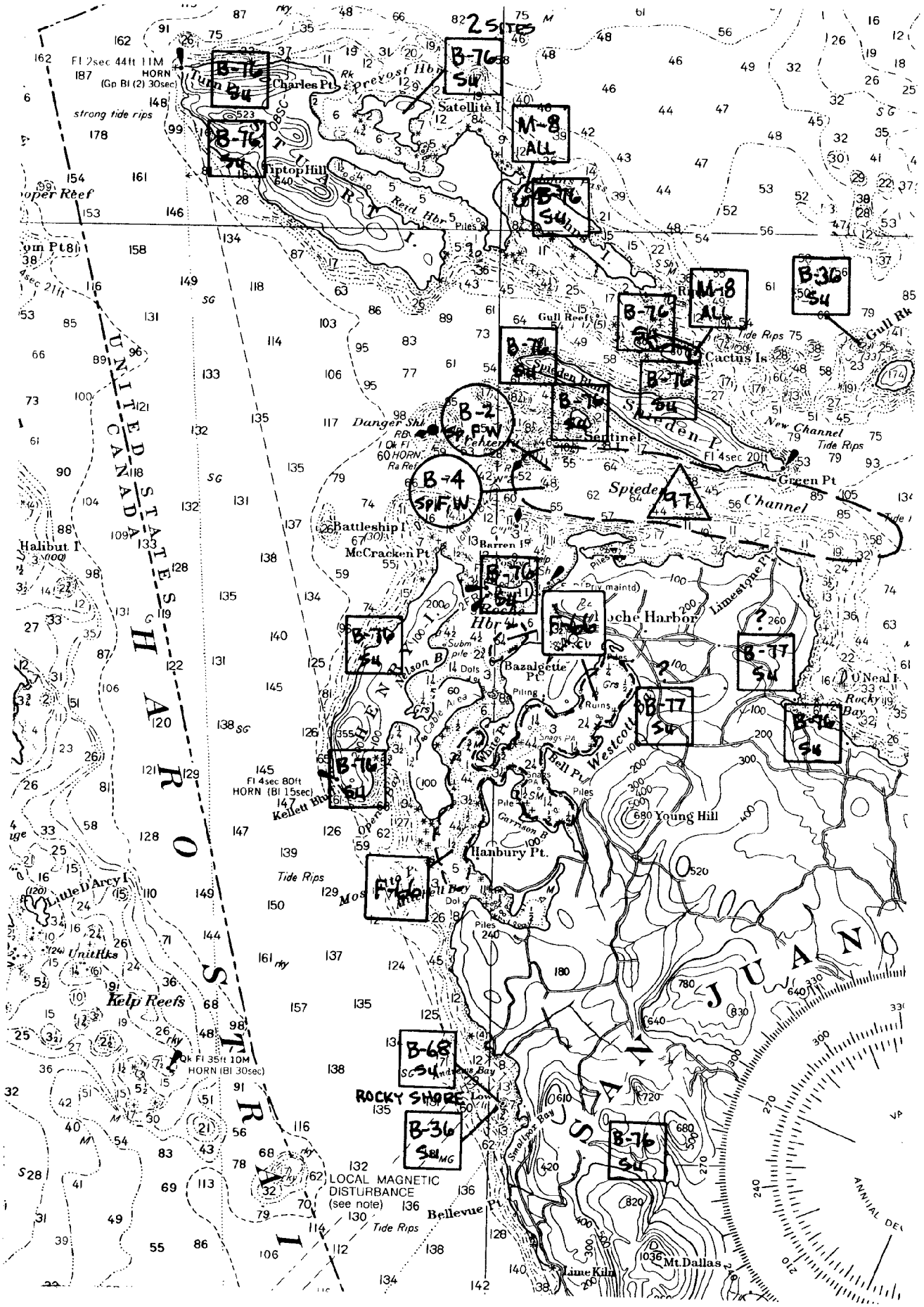

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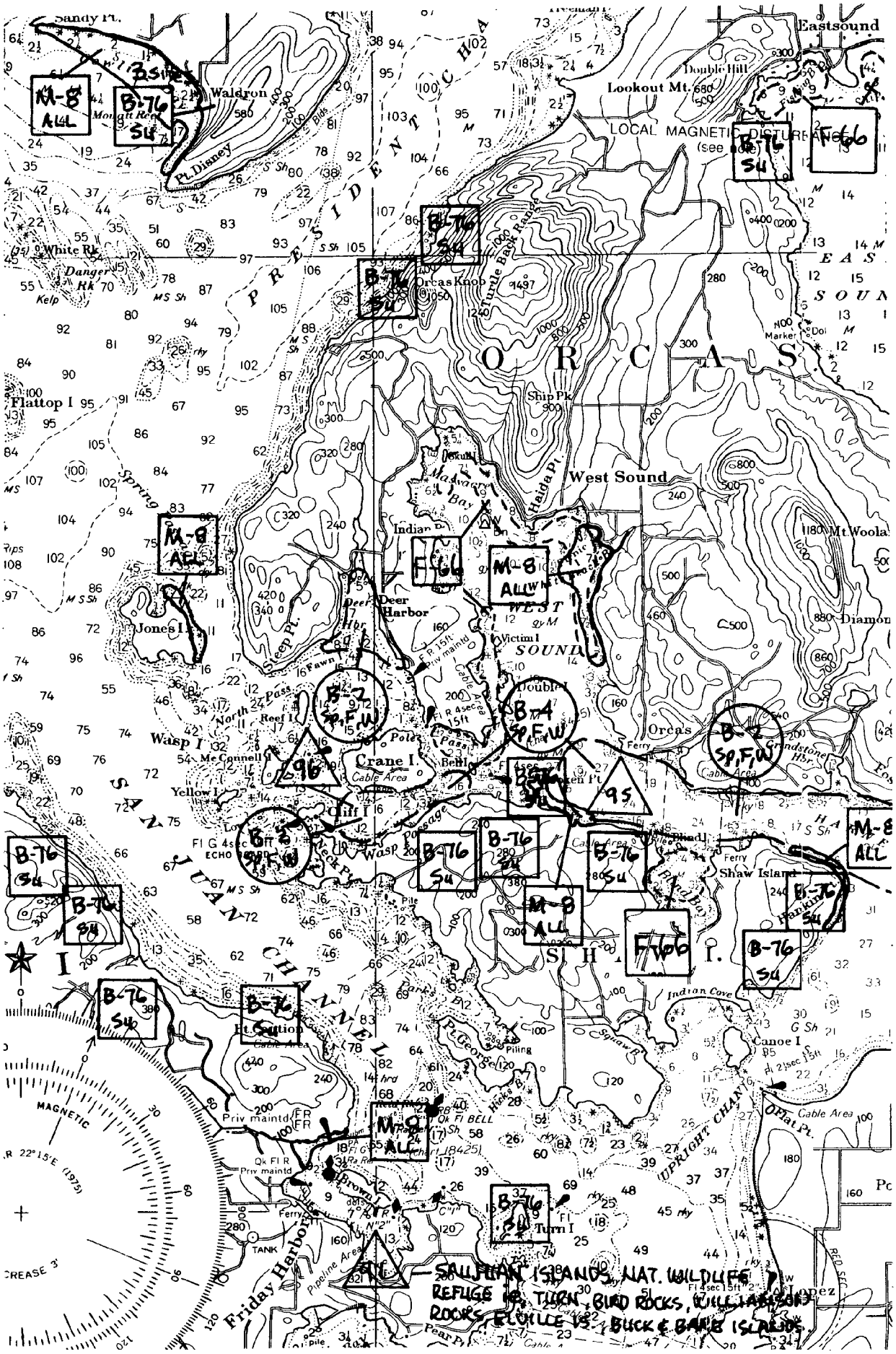

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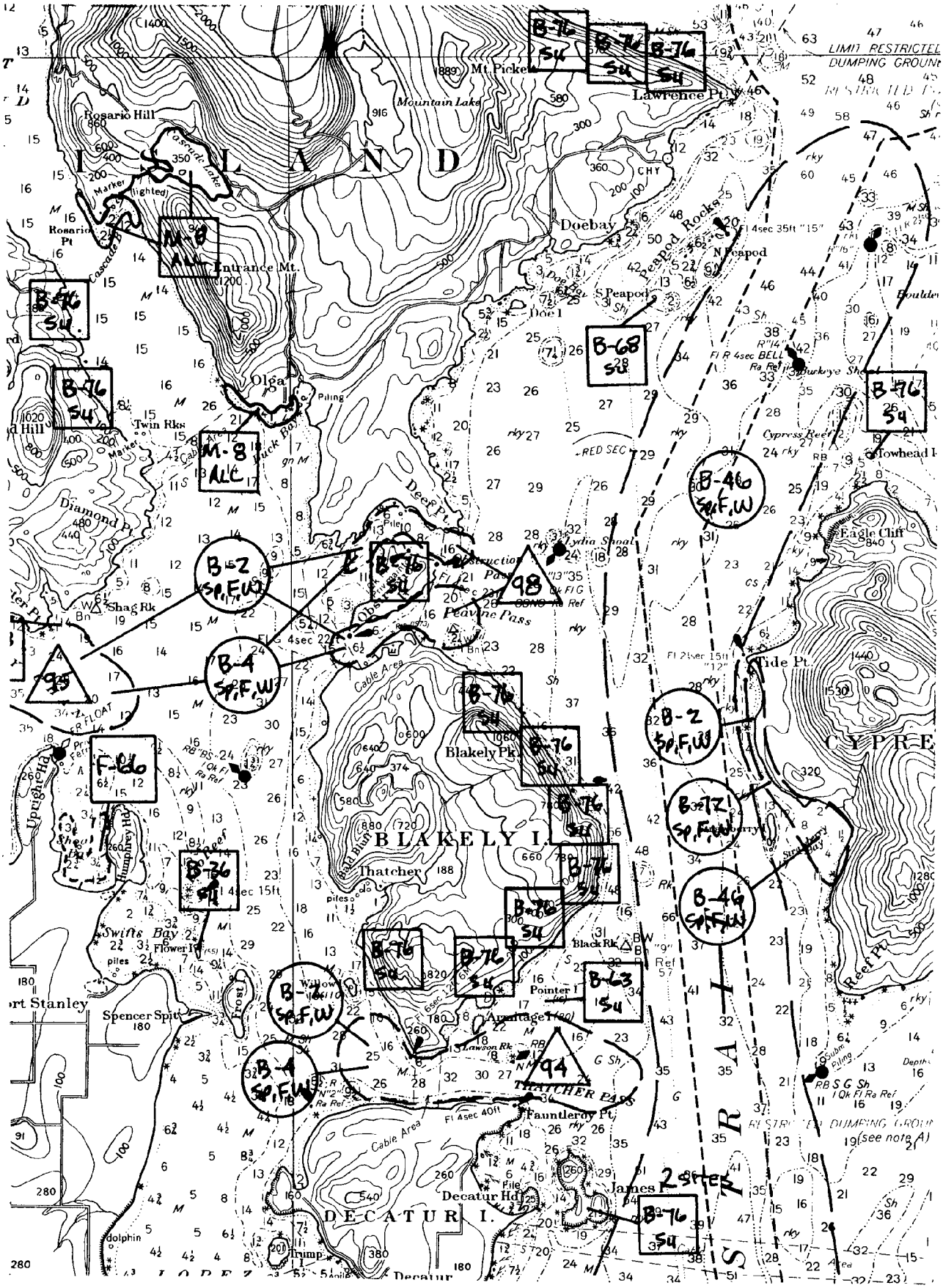

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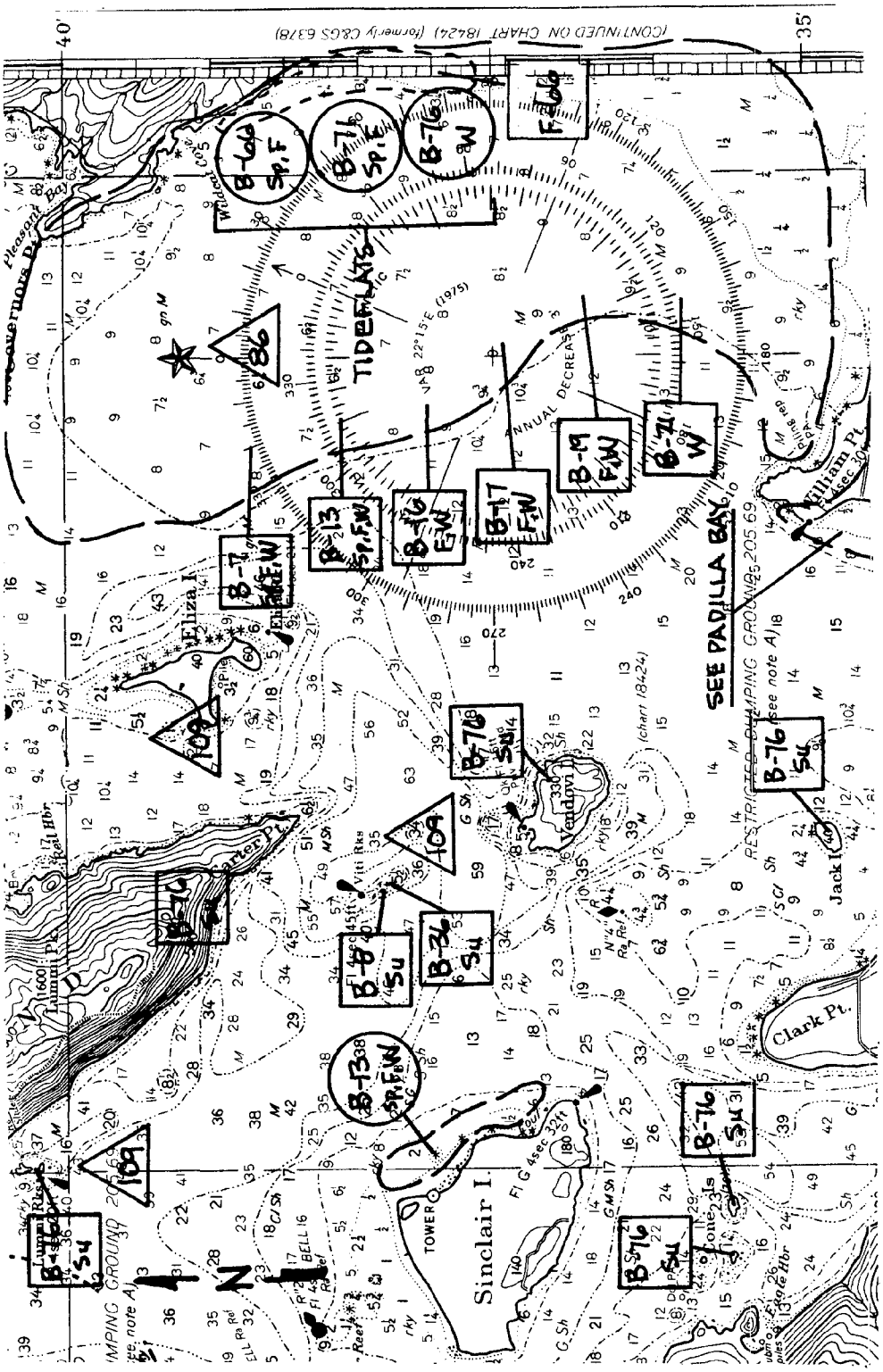

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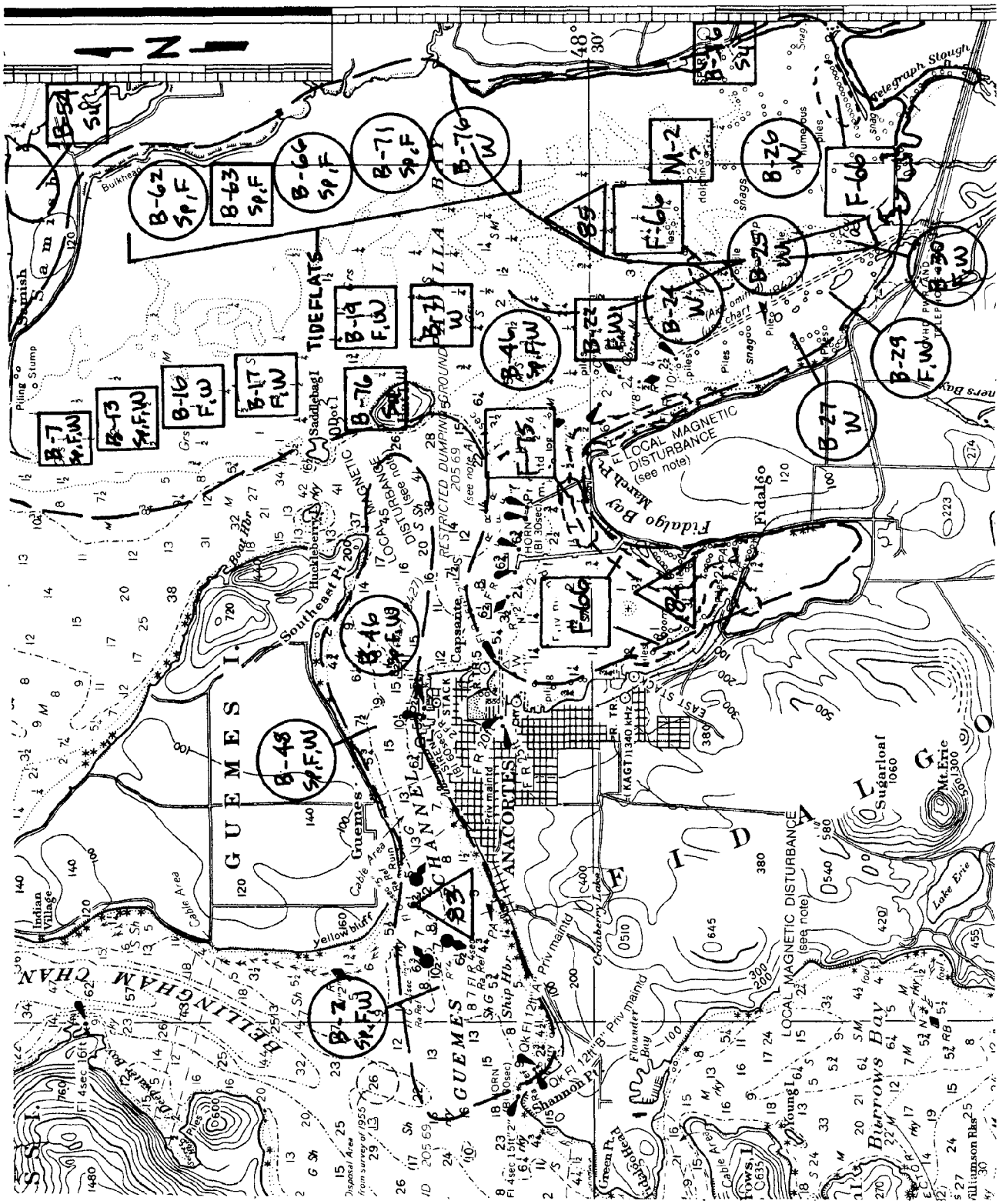

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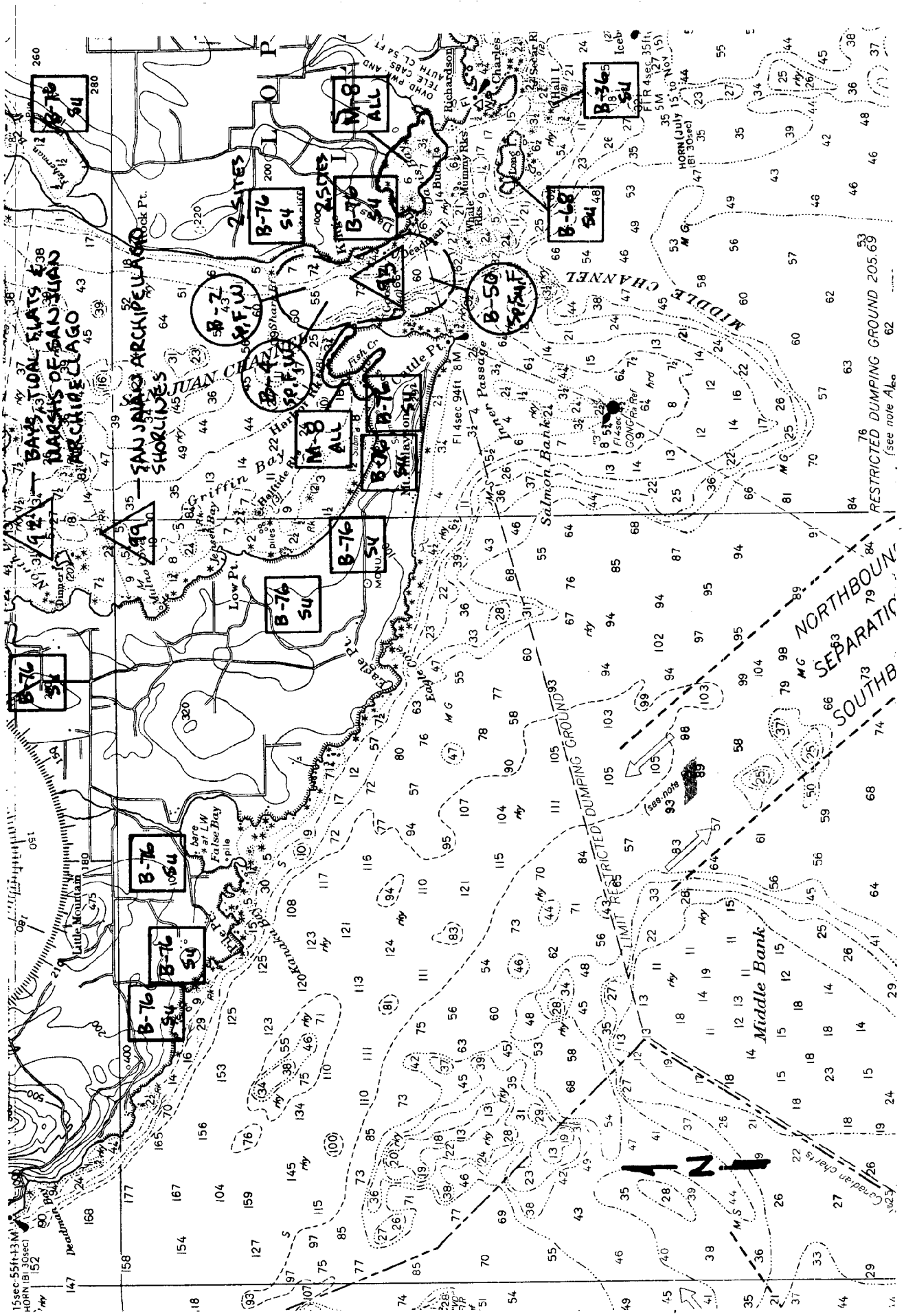

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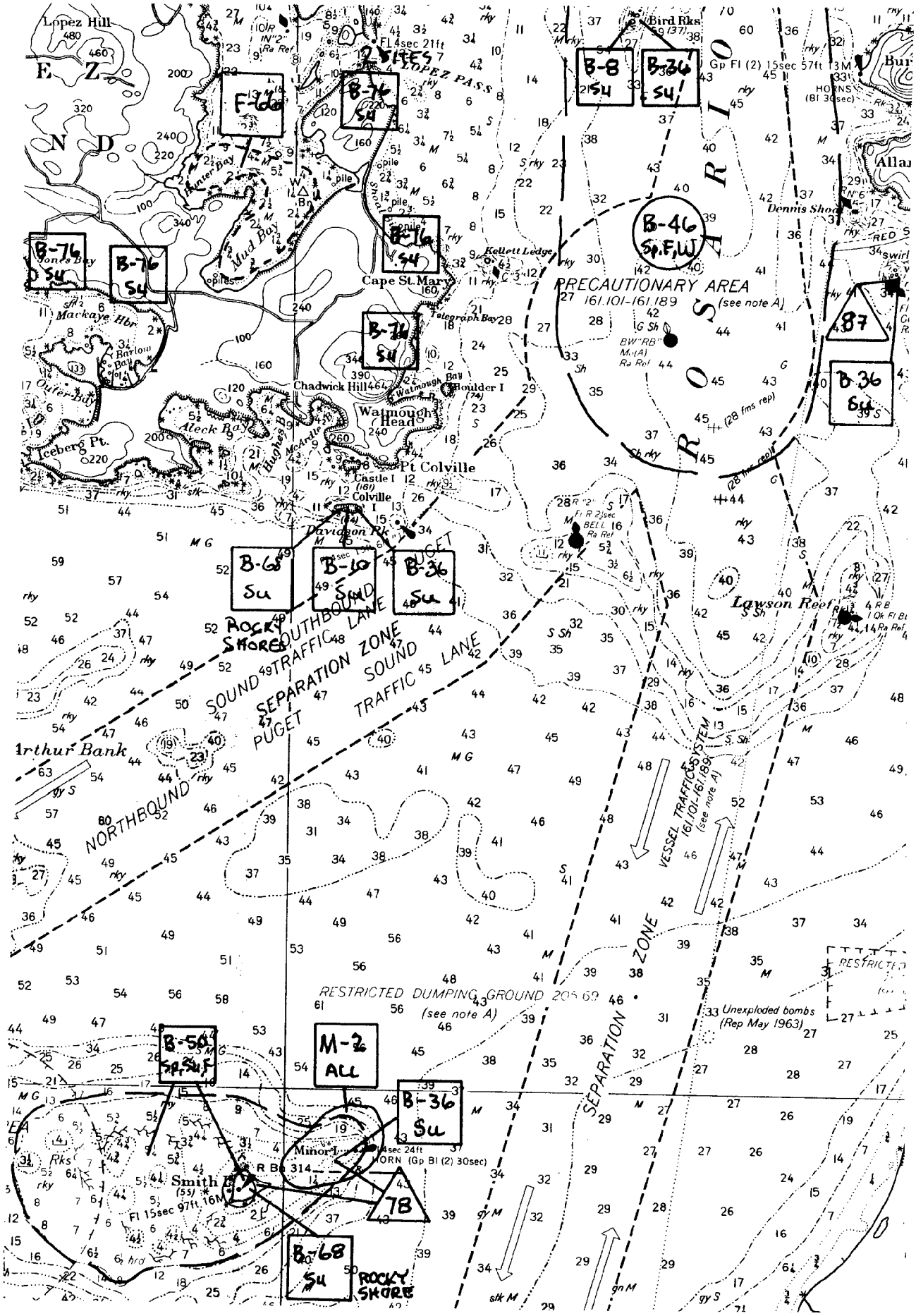

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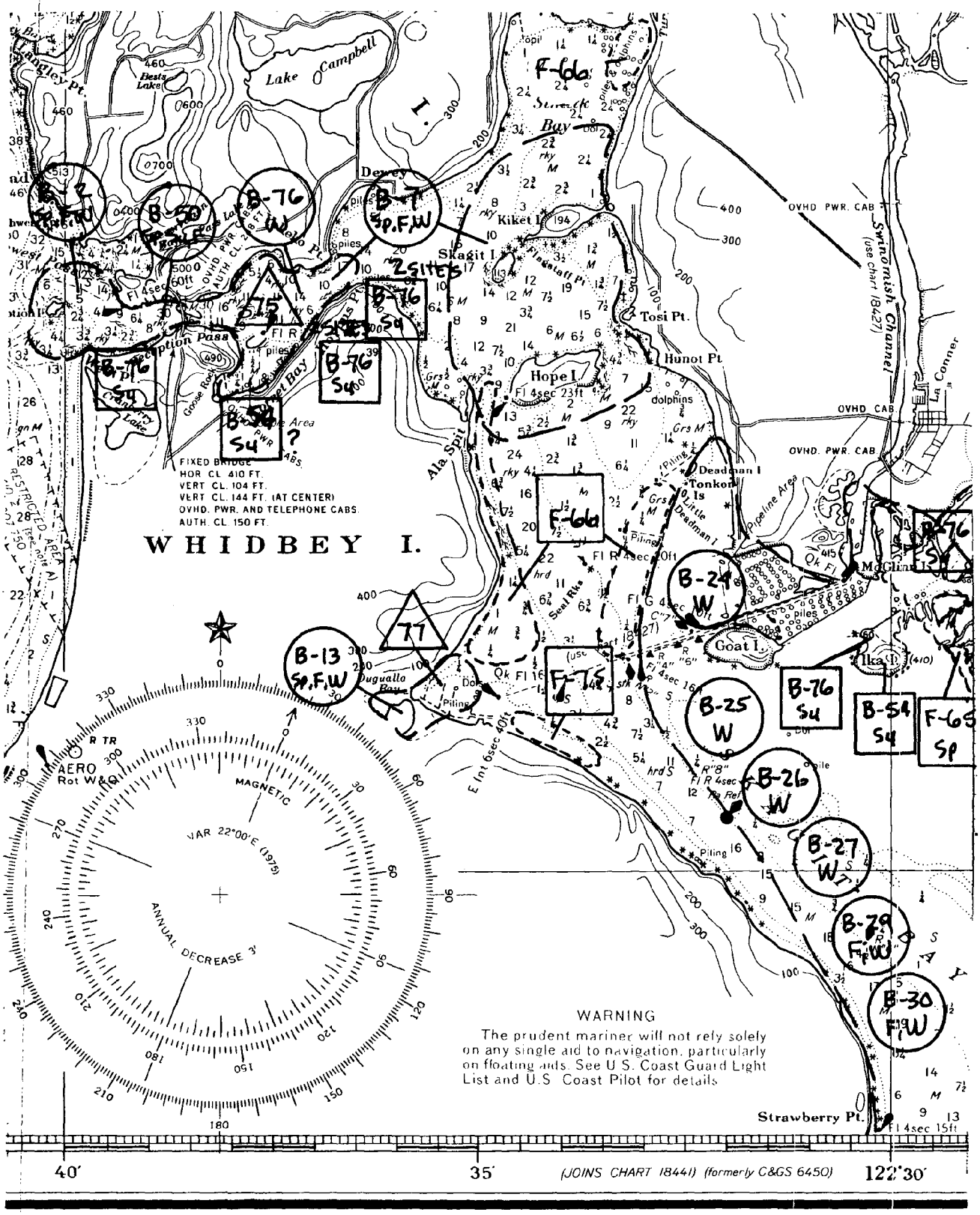

SHEET 12 STRAIT OF JUAN DE FUCA TO STRAIT OF GEORGIA

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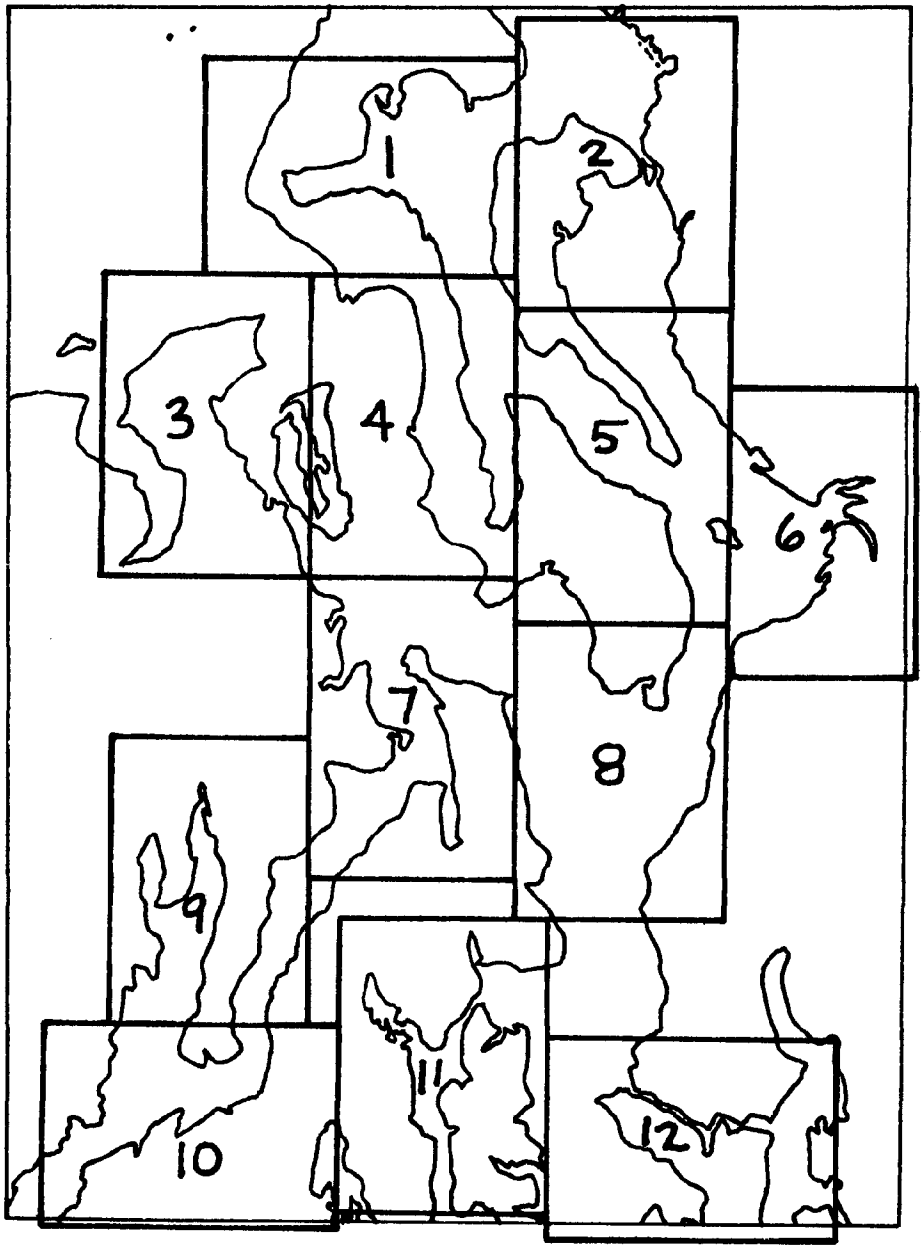

ADMIRALTY INLET & PUGET SOUND TO SEATTLE (NOAA CHART 18441)

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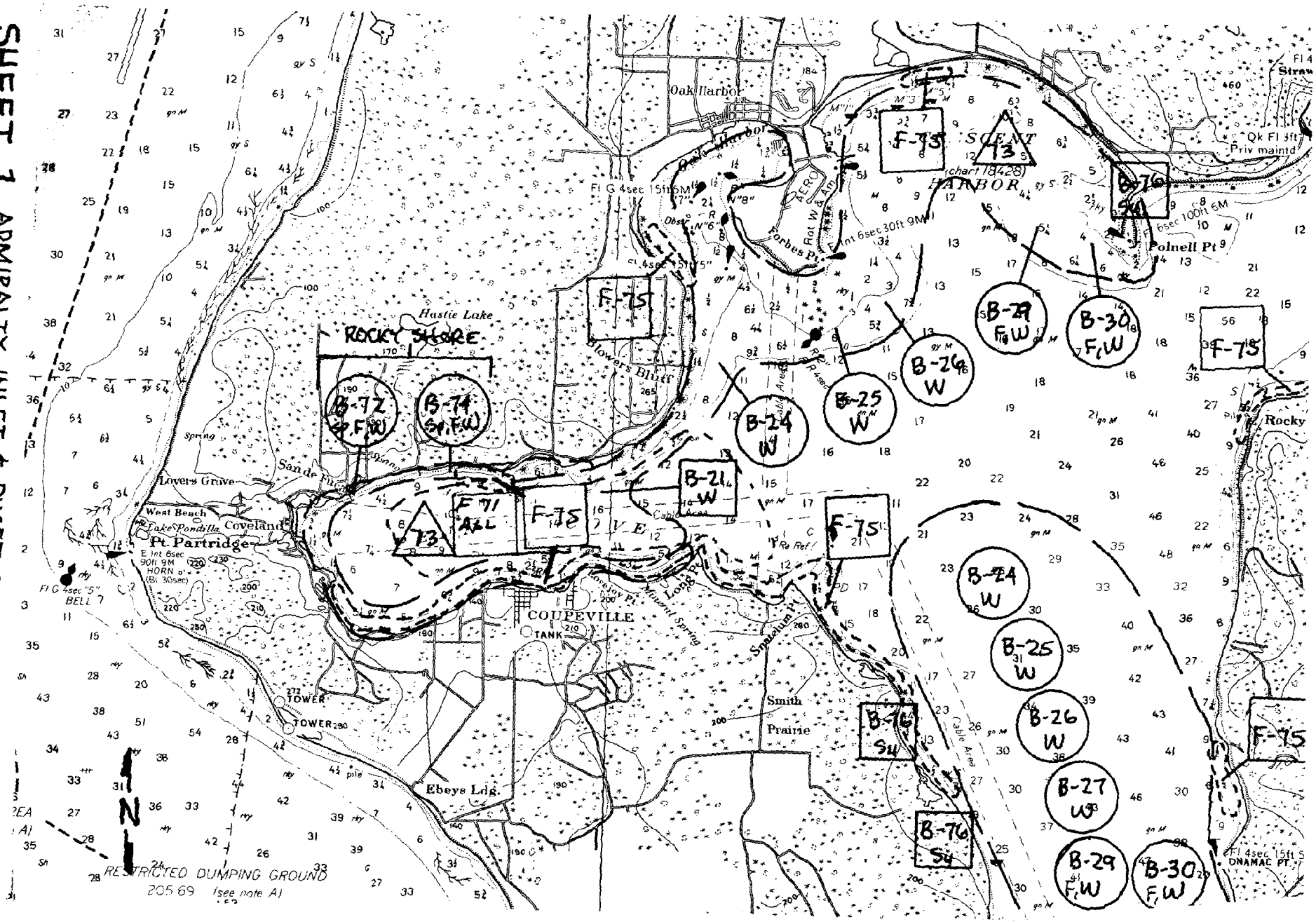
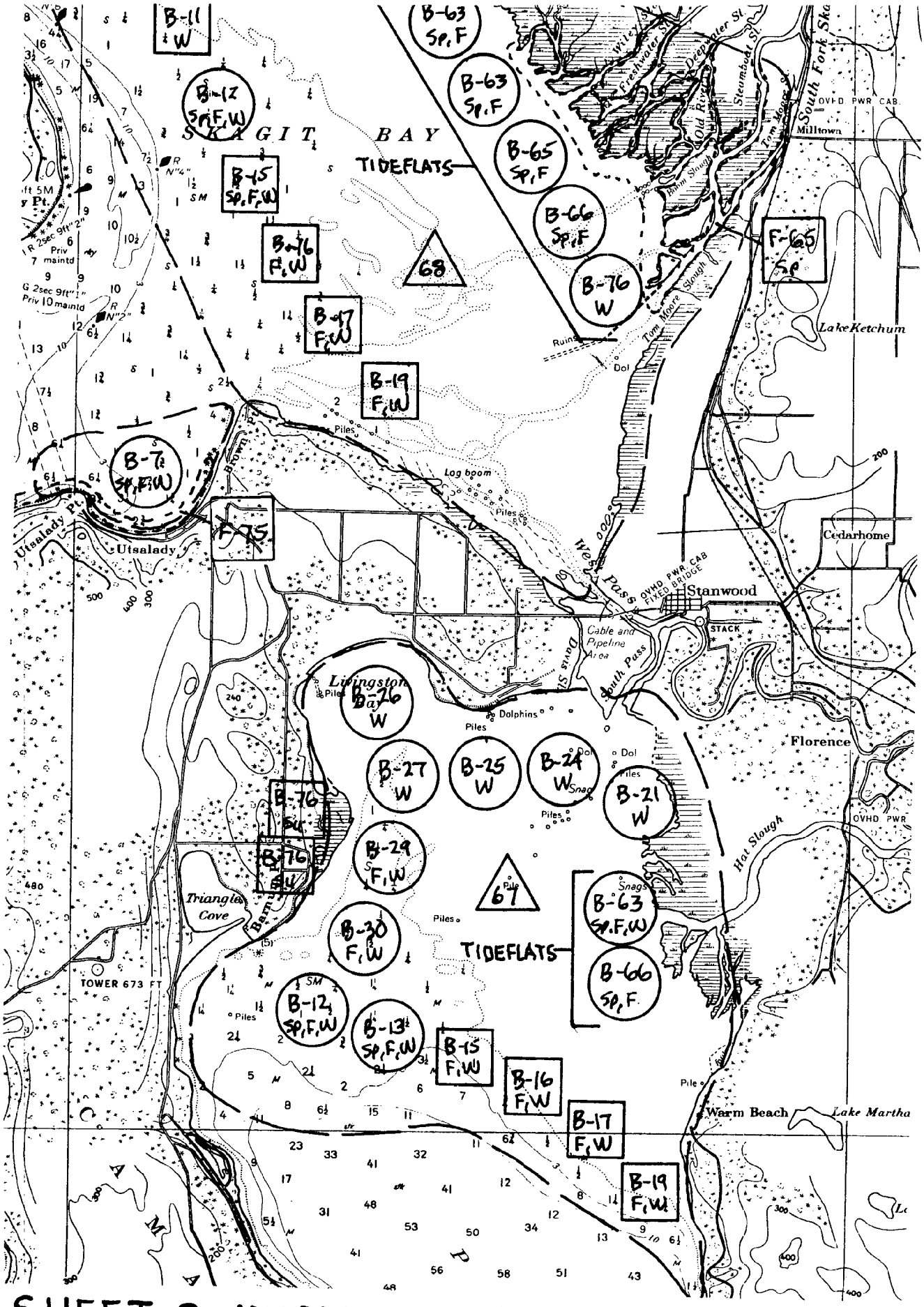
SHEET 1 ADMIRALTY INLET & PUGET SOUND TO SEATTLE





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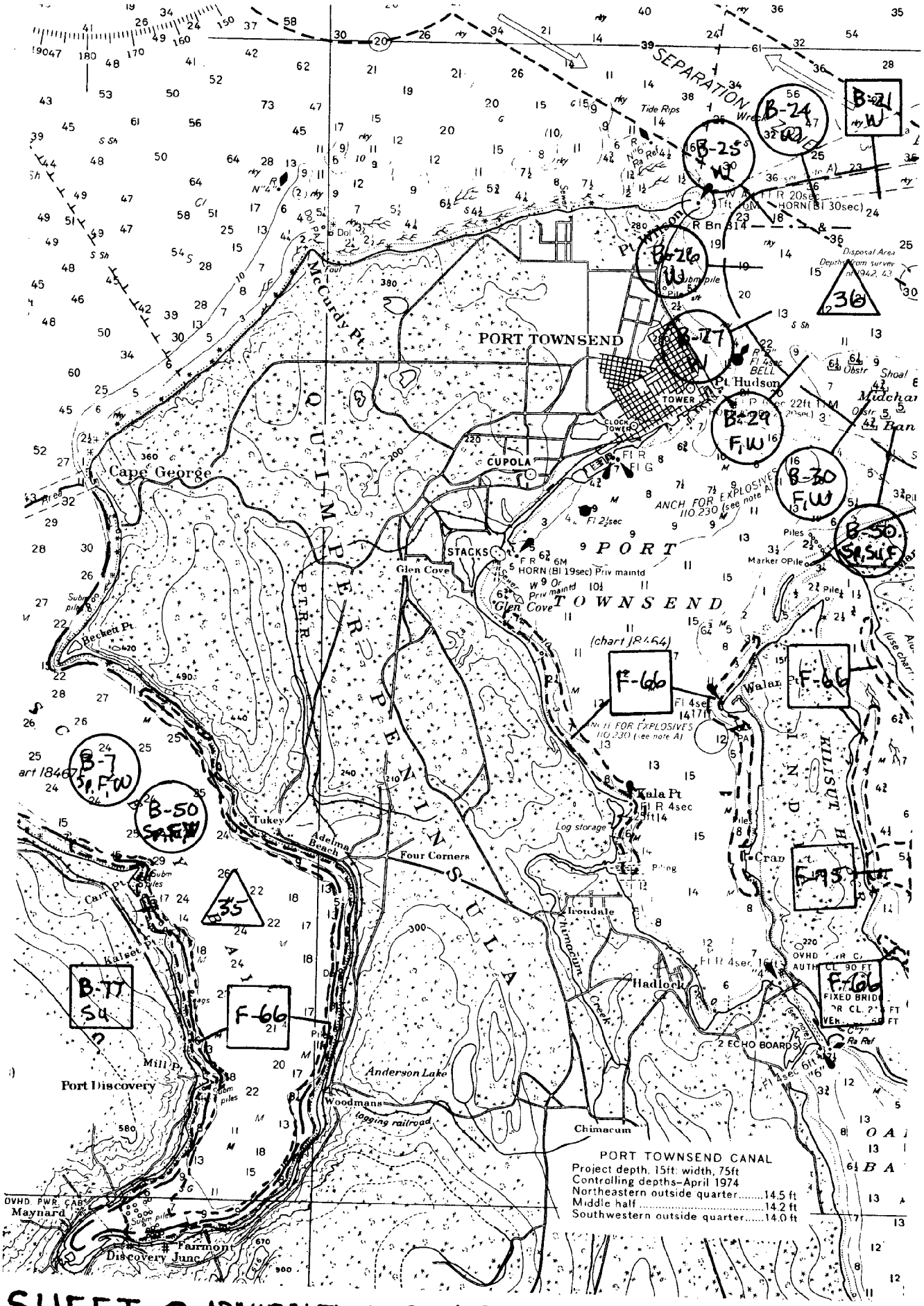

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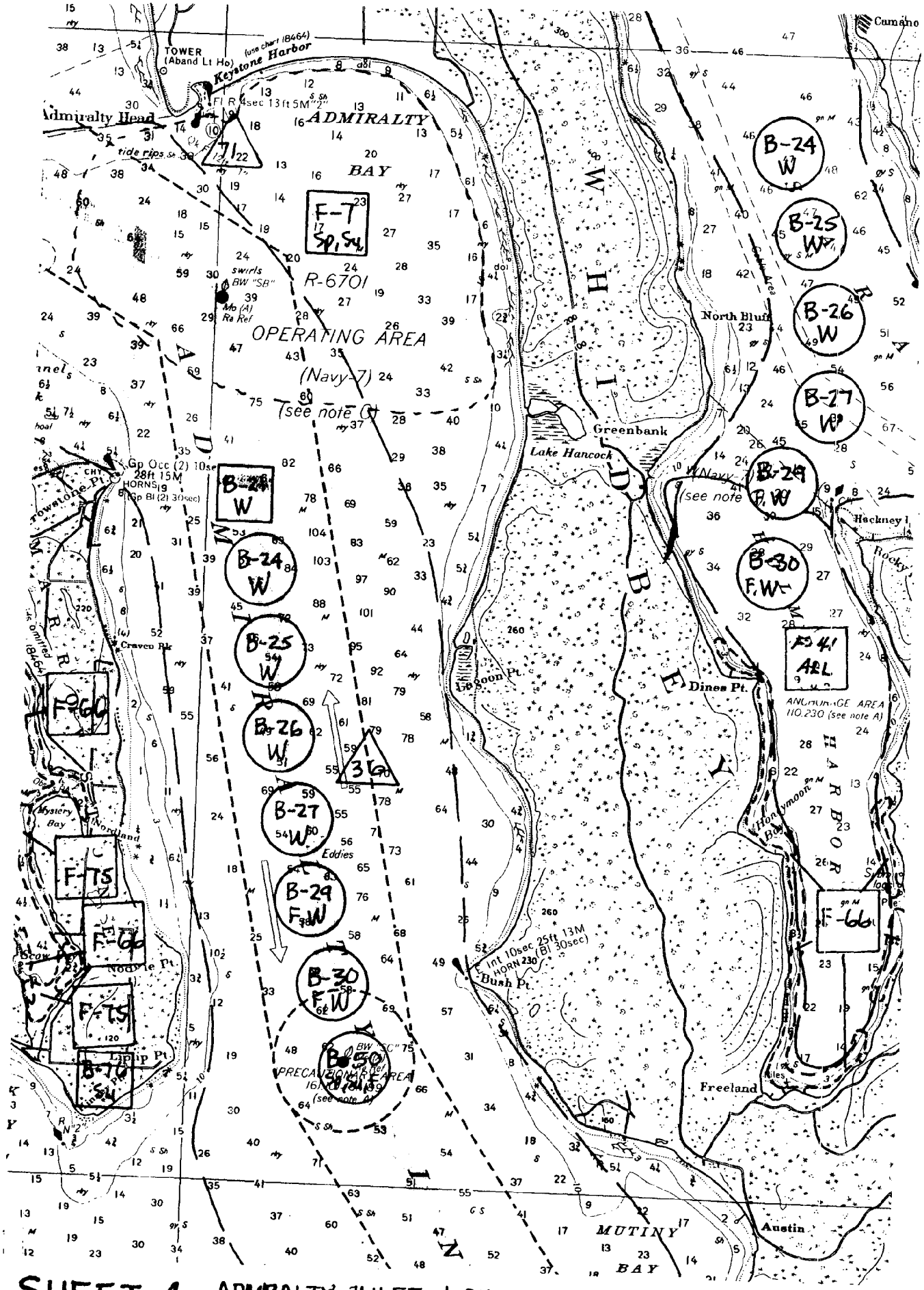
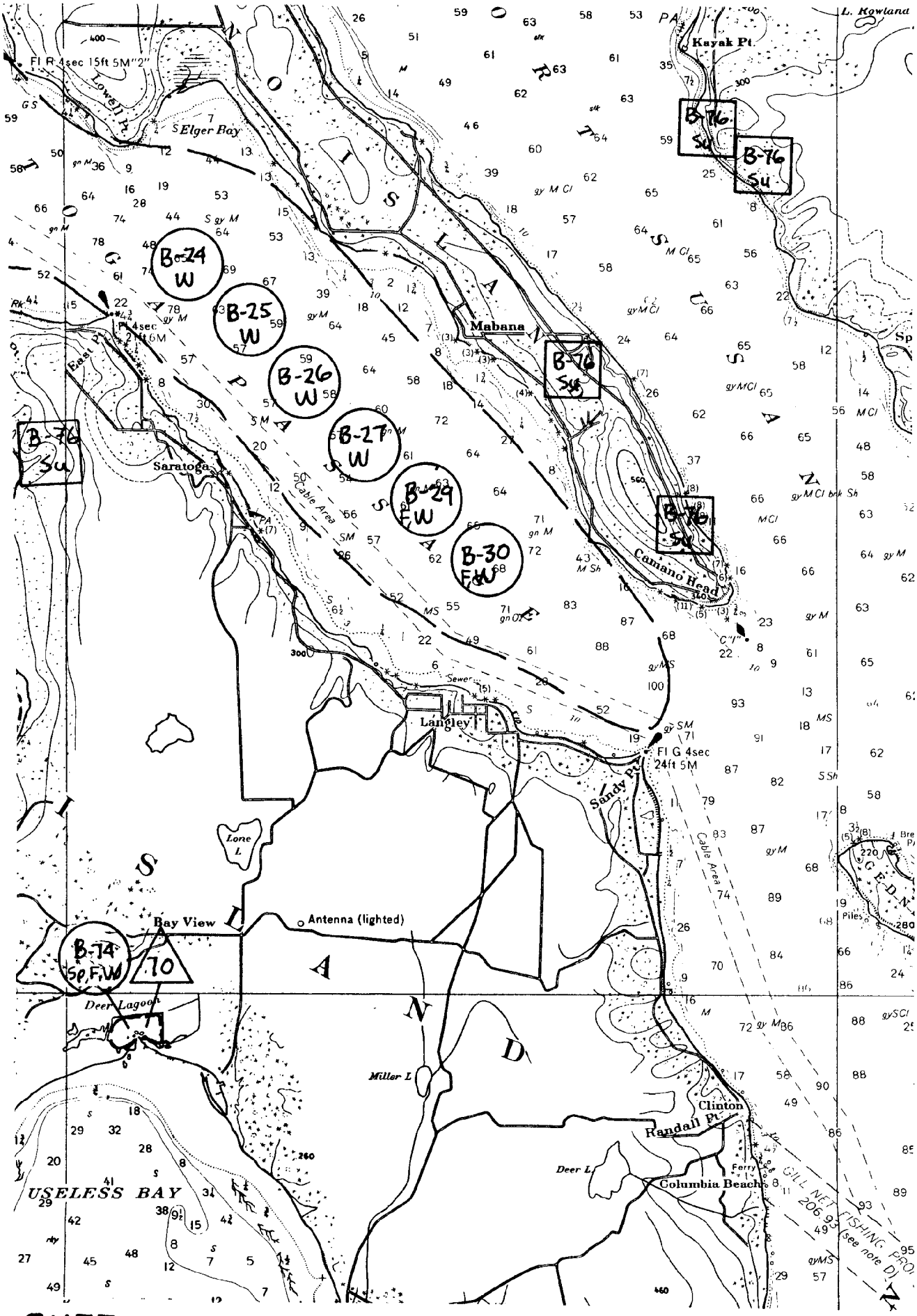


SHEET 4 ADMIRALTY INLET & PUGET SOUND TO SEATTLE



SHEET 5 ADMIRALTY INLET & PUGET SOUND TO SEATTLE

NOTE C

Naval Operating Areas are delineated by a purple screen band, thus Mariners should use caution as naval craft may be maneuvering within the areas. For further information consult Local Notices to Mariners

CAUTION

Mariners are warned to stay clear of the protective riprap surrounding navigational light structures shown thus

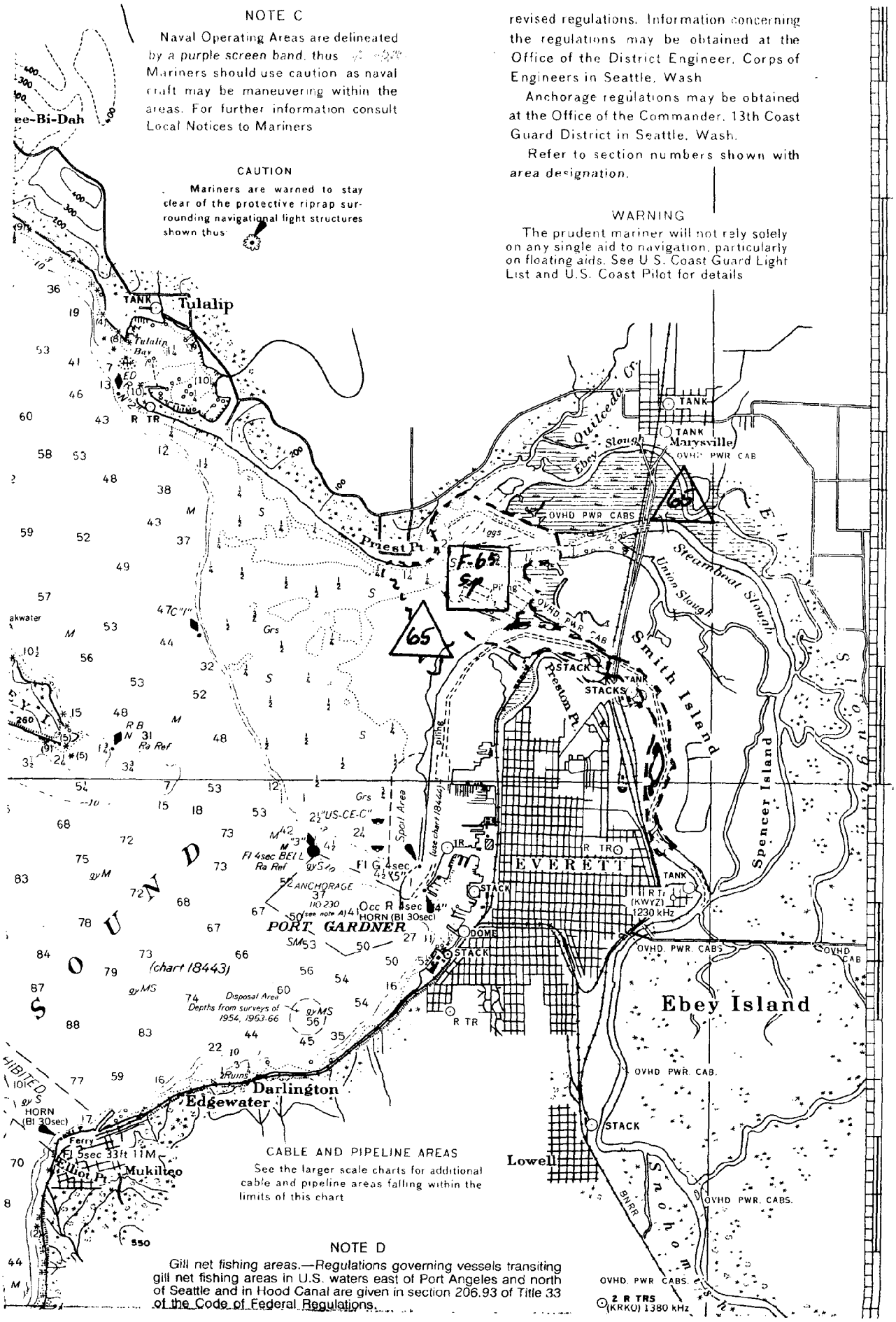
revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer, Corps of Engineers in Seattle, Wash

Anchorage regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Wash.

Refer to section numbers shown with area designation.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details



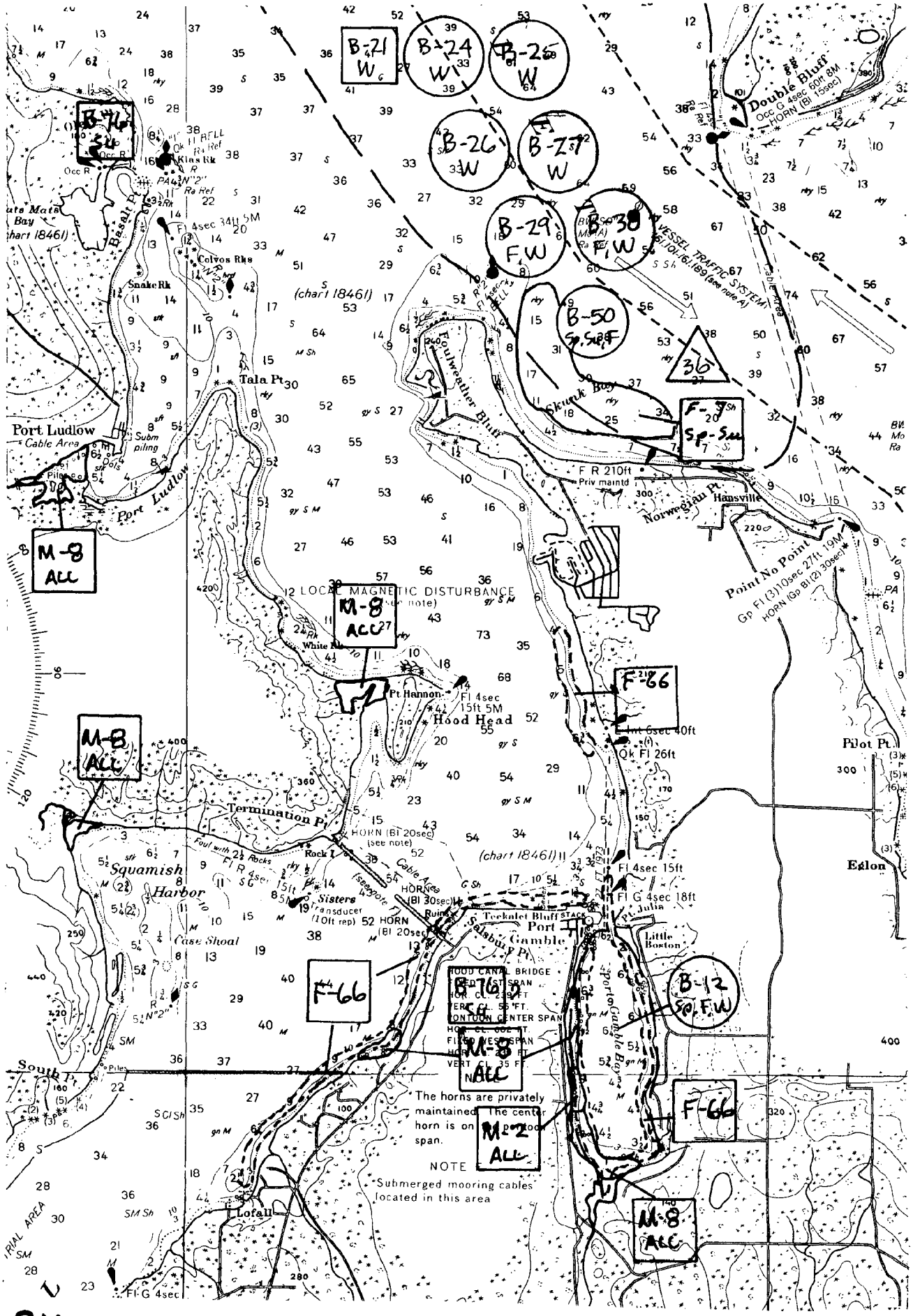
CABLE AND PIPELINE AREAS

See the larger scale charts for additional cable and pipeline areas falling within the limits of this chart

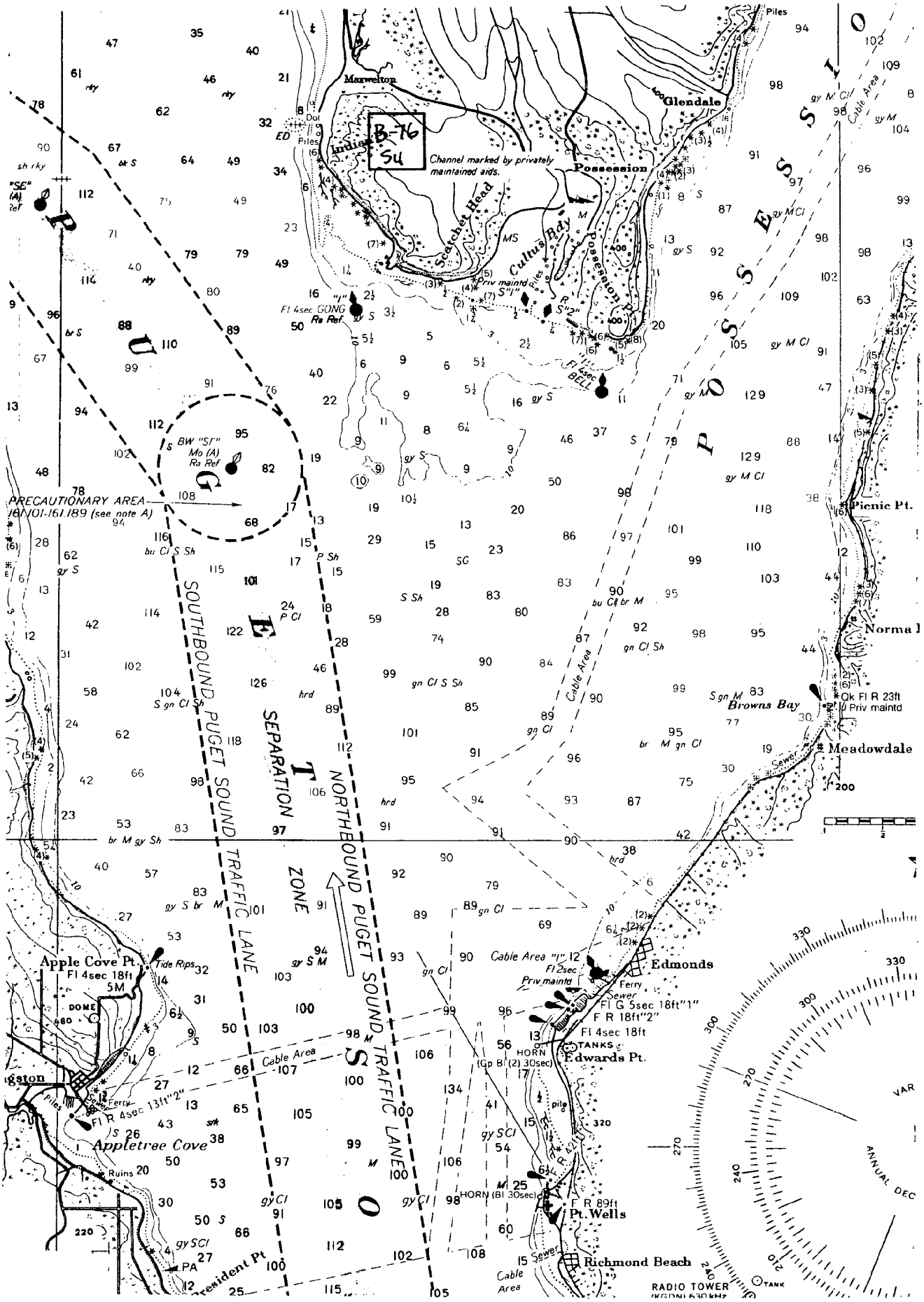
NOTE D

Gill net fishing areas.—Regulations governing vessels transiting gill net fishing areas in U.S. waters east of Port Angeles and north of Seattle and in Hood Canal are given in section 206.93 of Title 33 of the Code of Federal Regulations.

SHEET 6 ADMIRALTY INLET & PUGET SOUND TO SEATTLE



SHEET 7 ADMIRALTY INLET & PUGET SOUND TO SEATTLE



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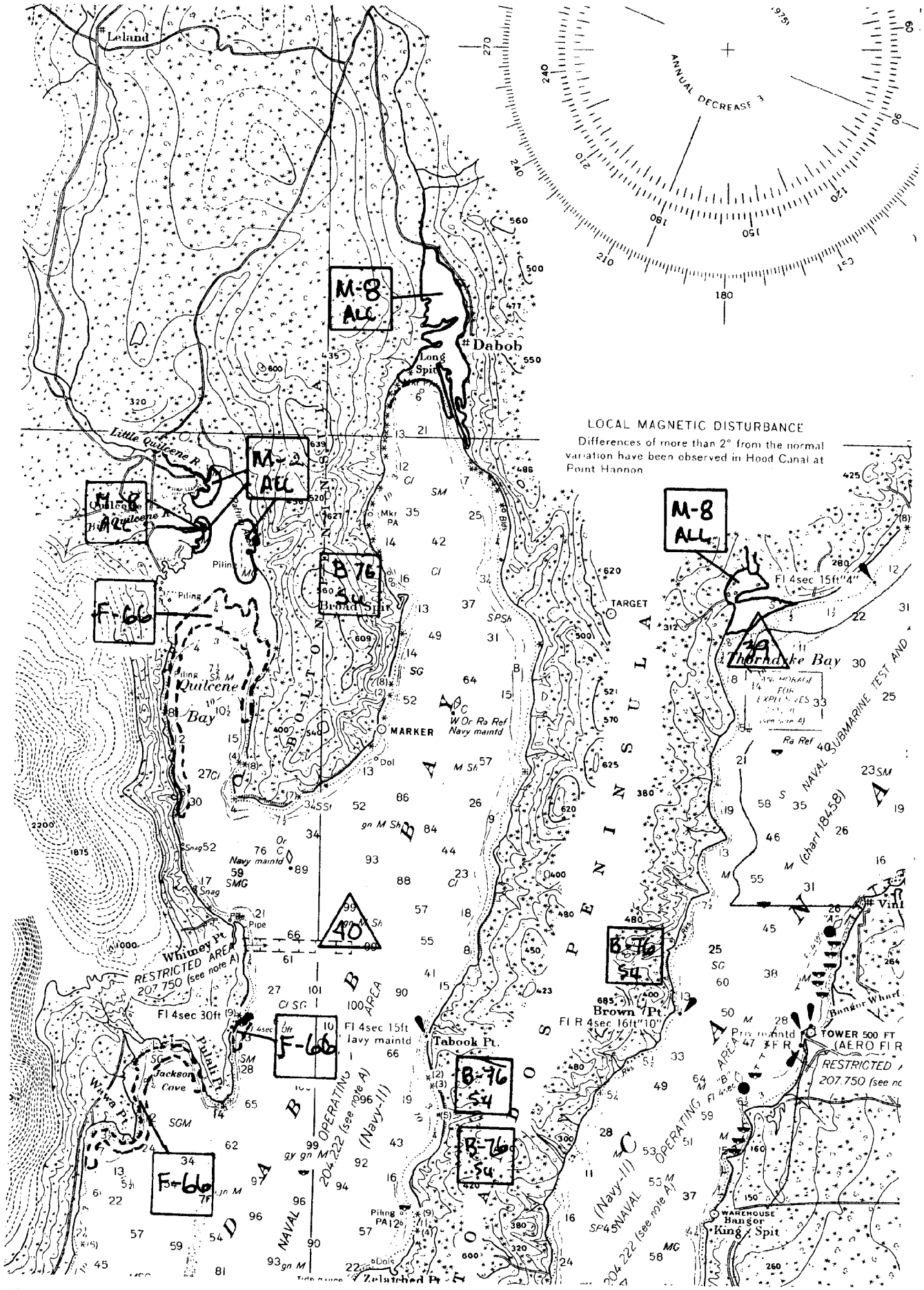

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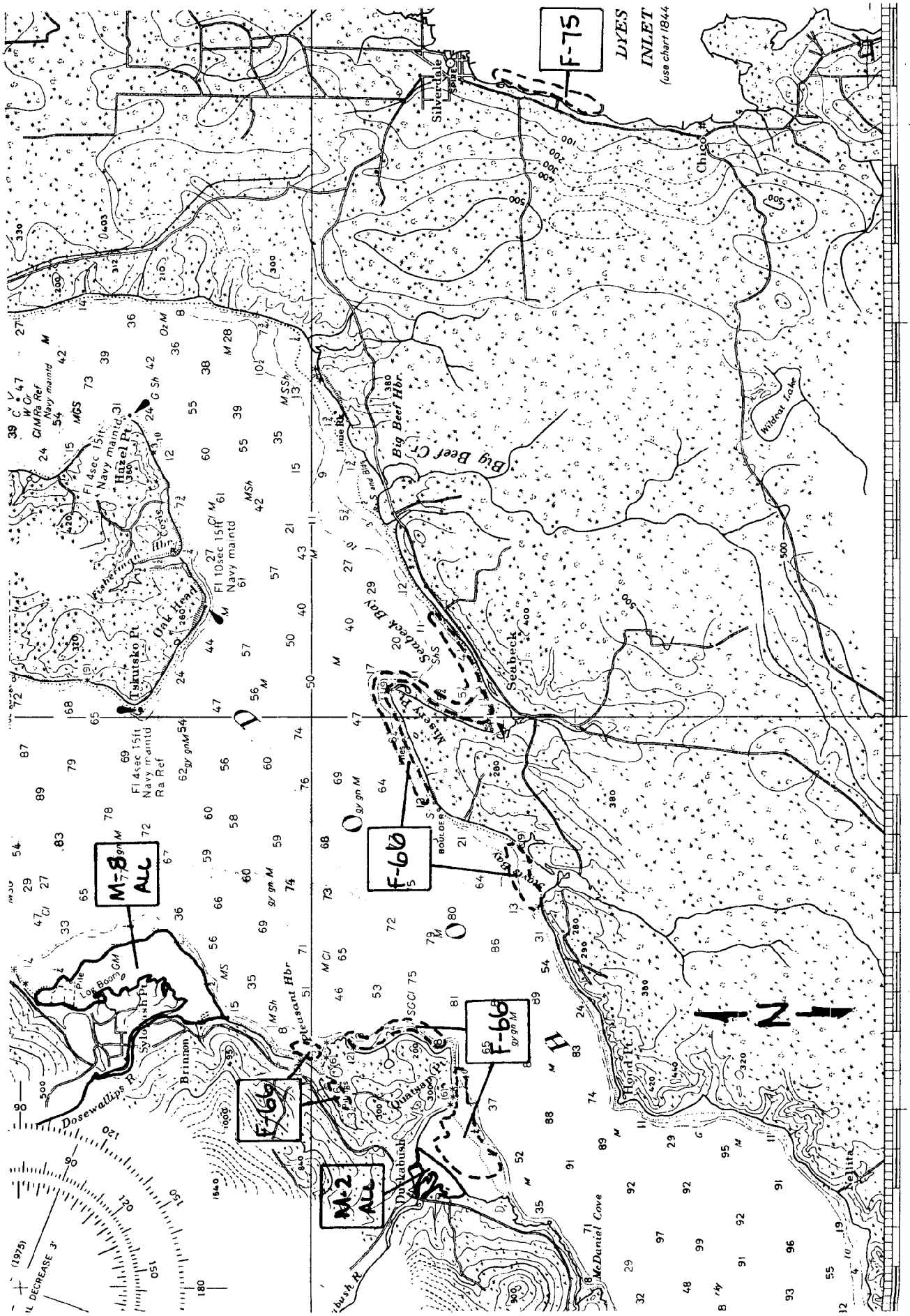

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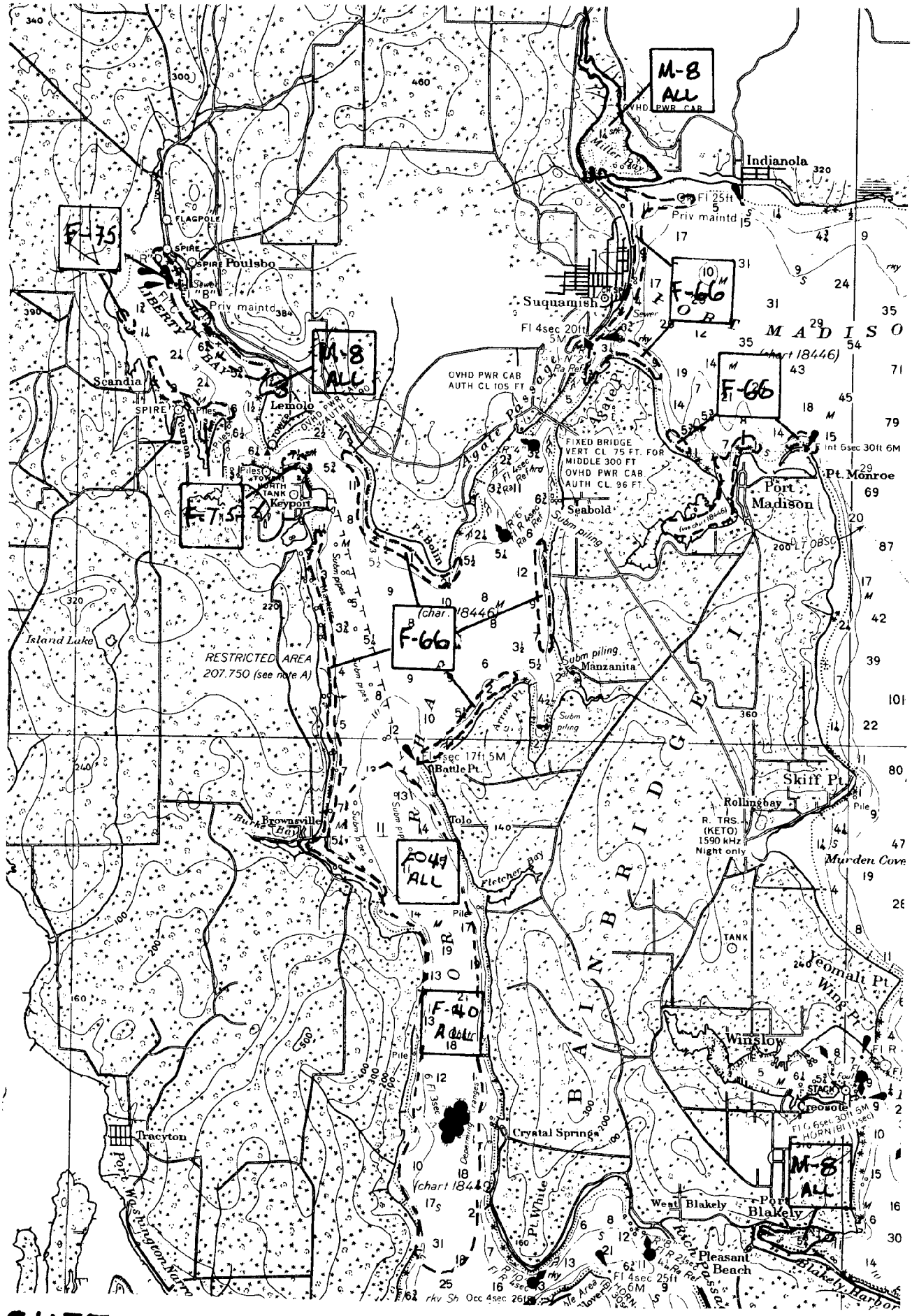
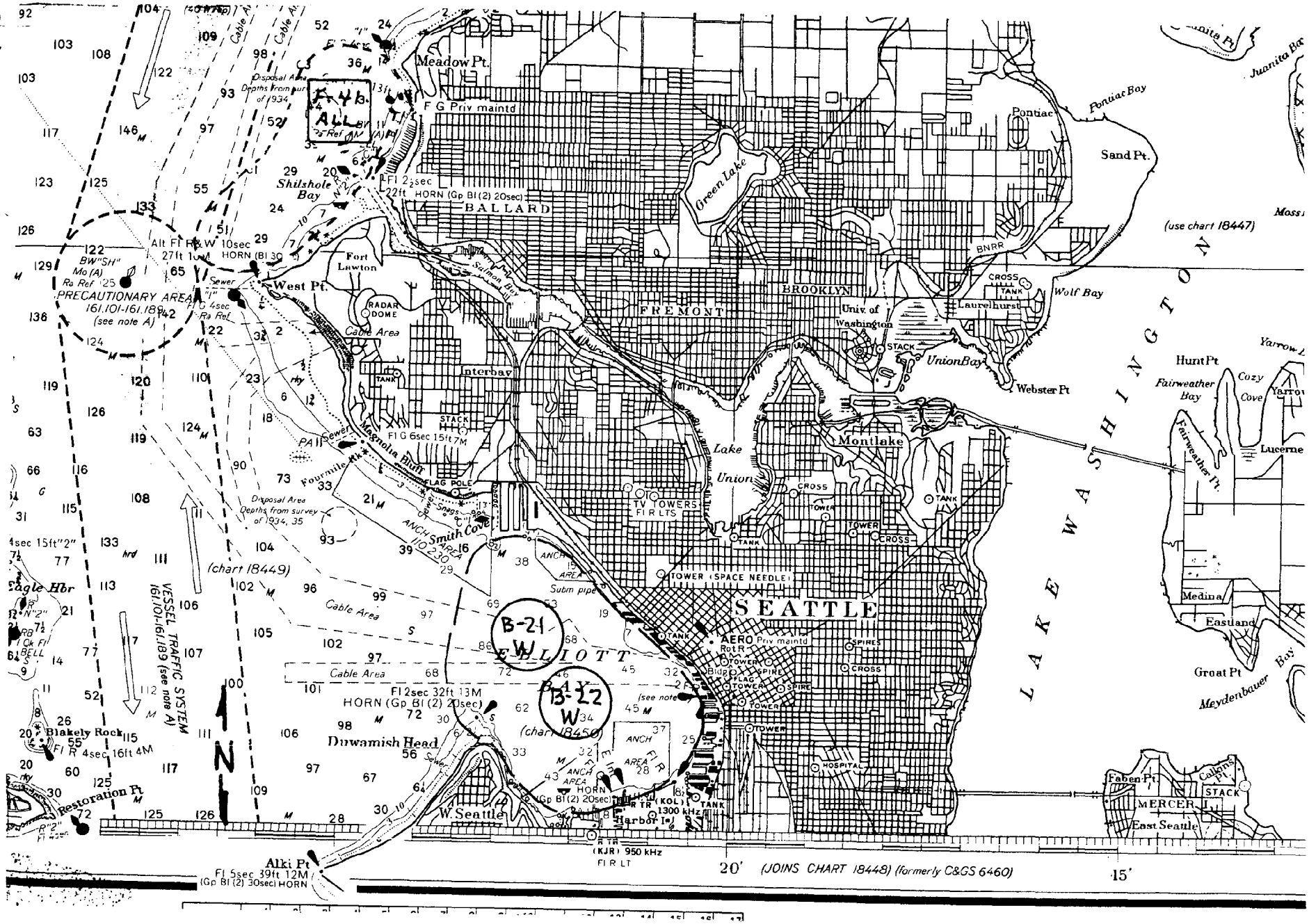


SHEET 11 ADMIRALTY INLET & PUGET SOUND TO SEATTLE

SHEE 12 ADMIRALTY INLET & PUGET SOUND TO SEATTLE



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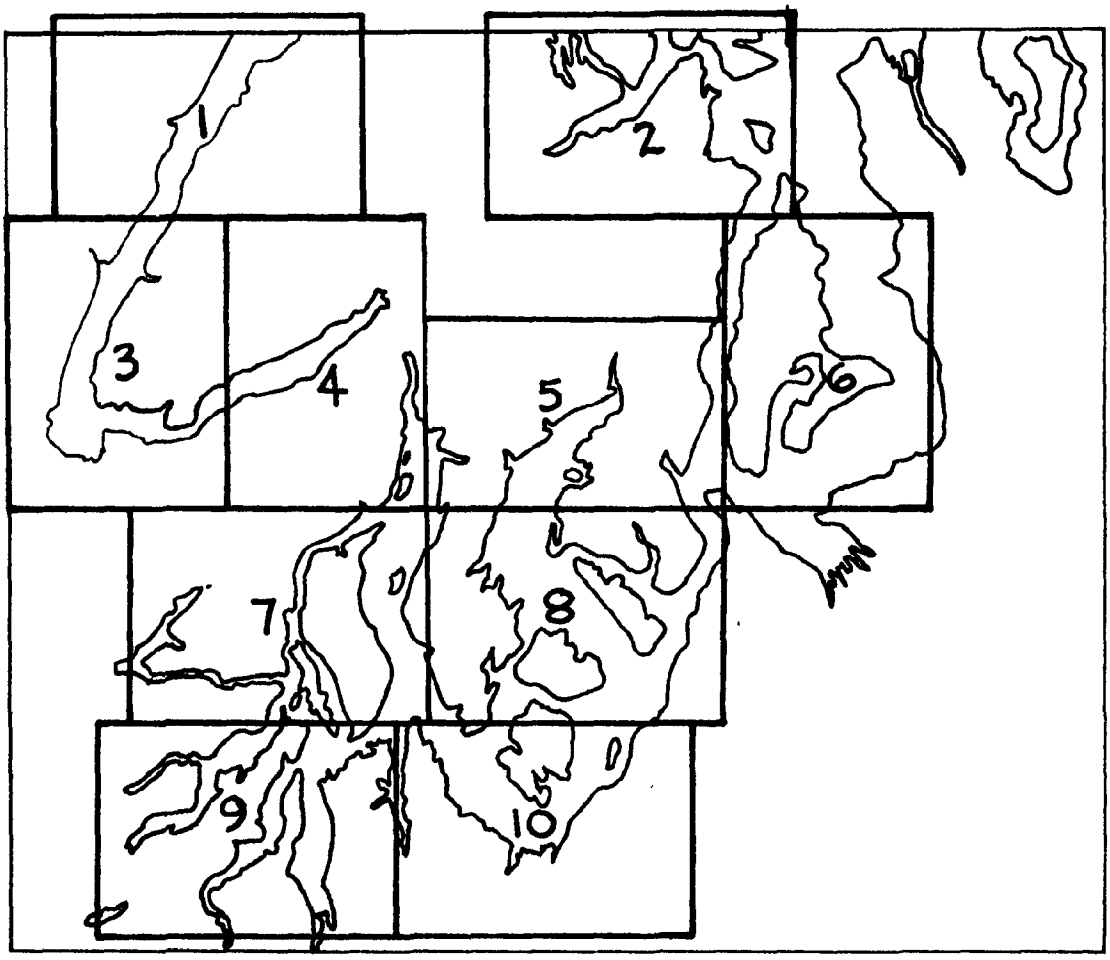

PUGET SOUND - SEATTLE TO OLYMPIA (NOAA CHART 18448)

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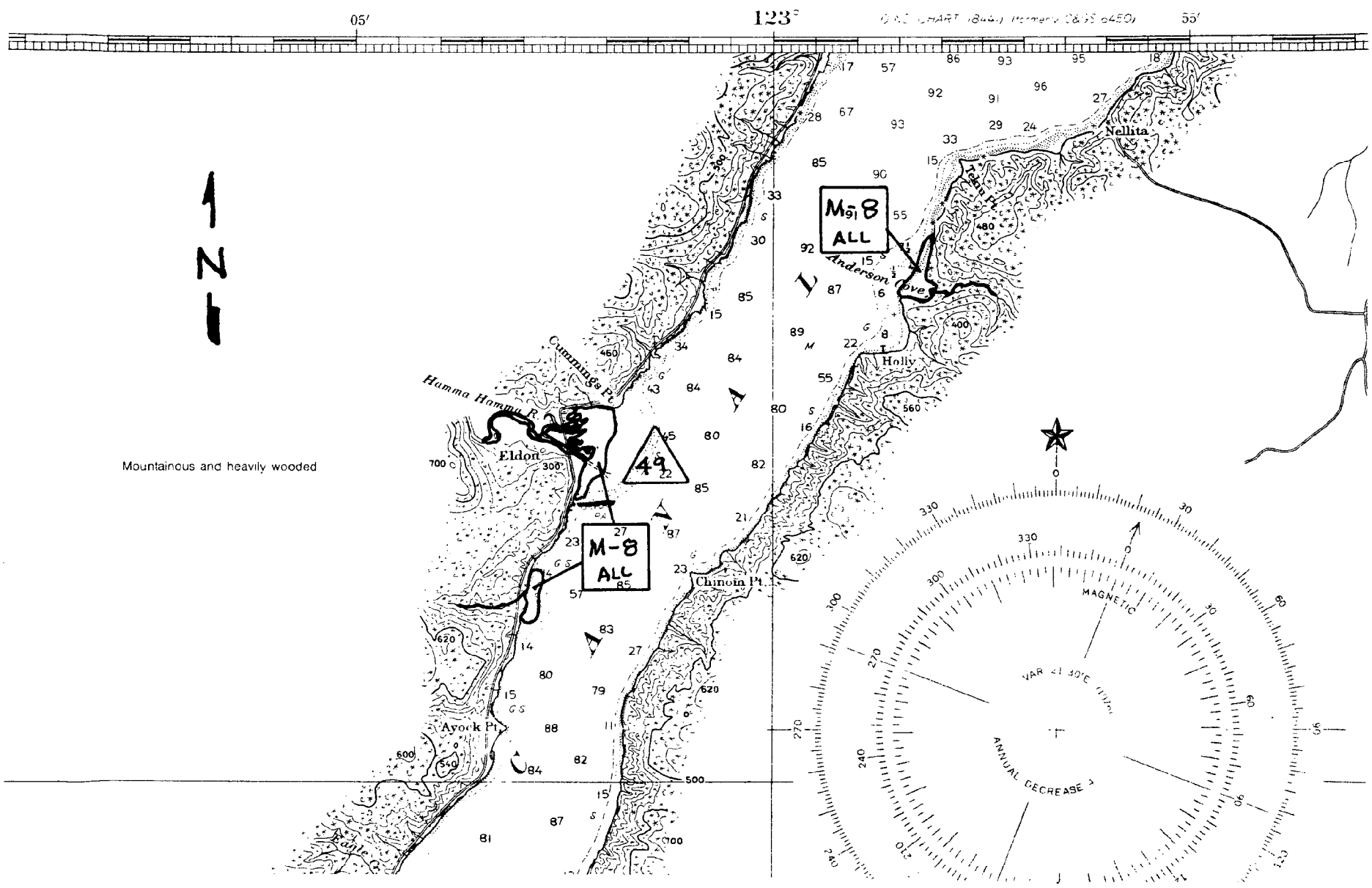

SHEET 1 PUGET SOUND - SEATTLE TO OLYMPIA

SHEET 2 PUGET SOUND – SEATTLE TO OLYMPIA

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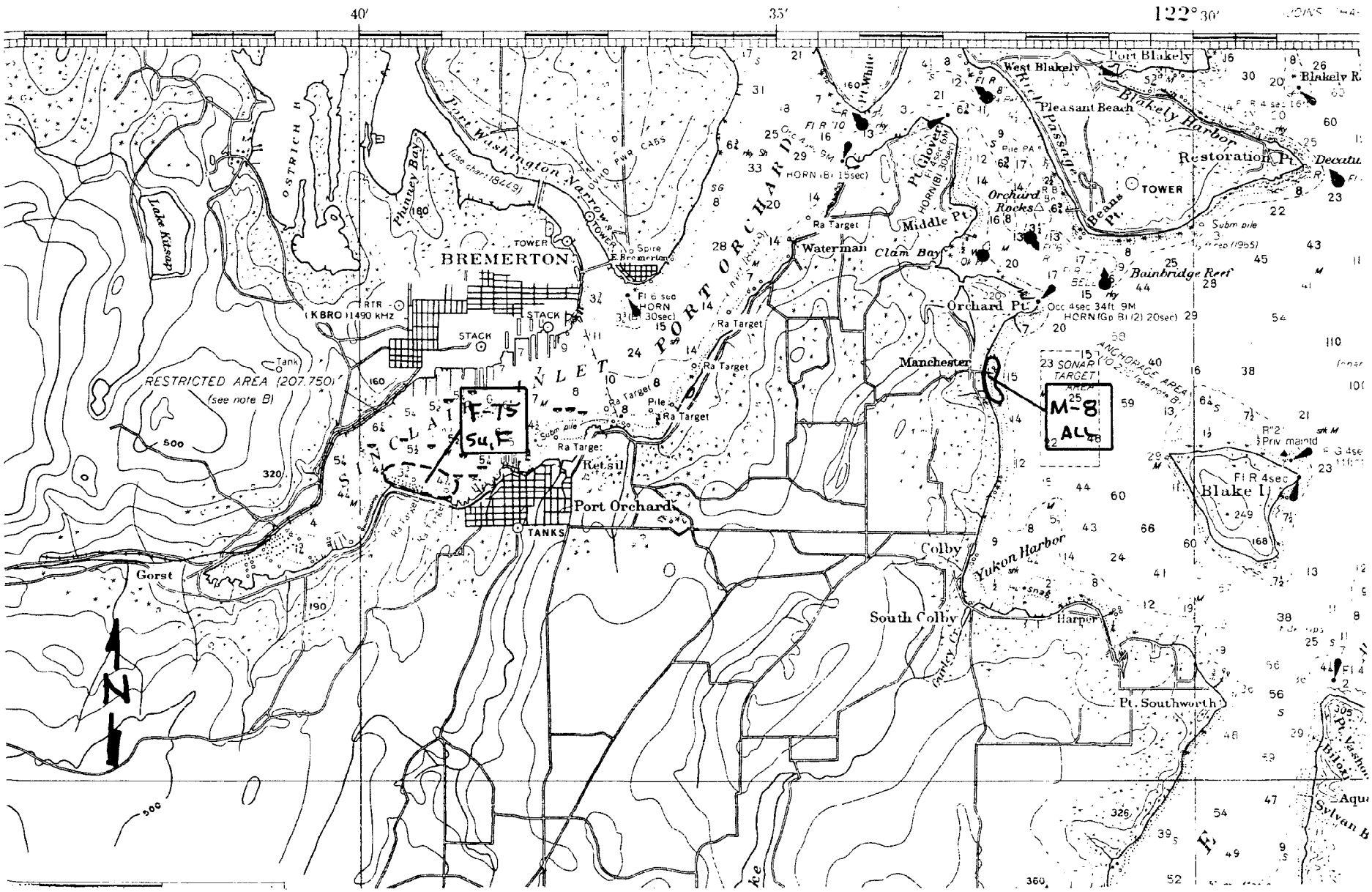
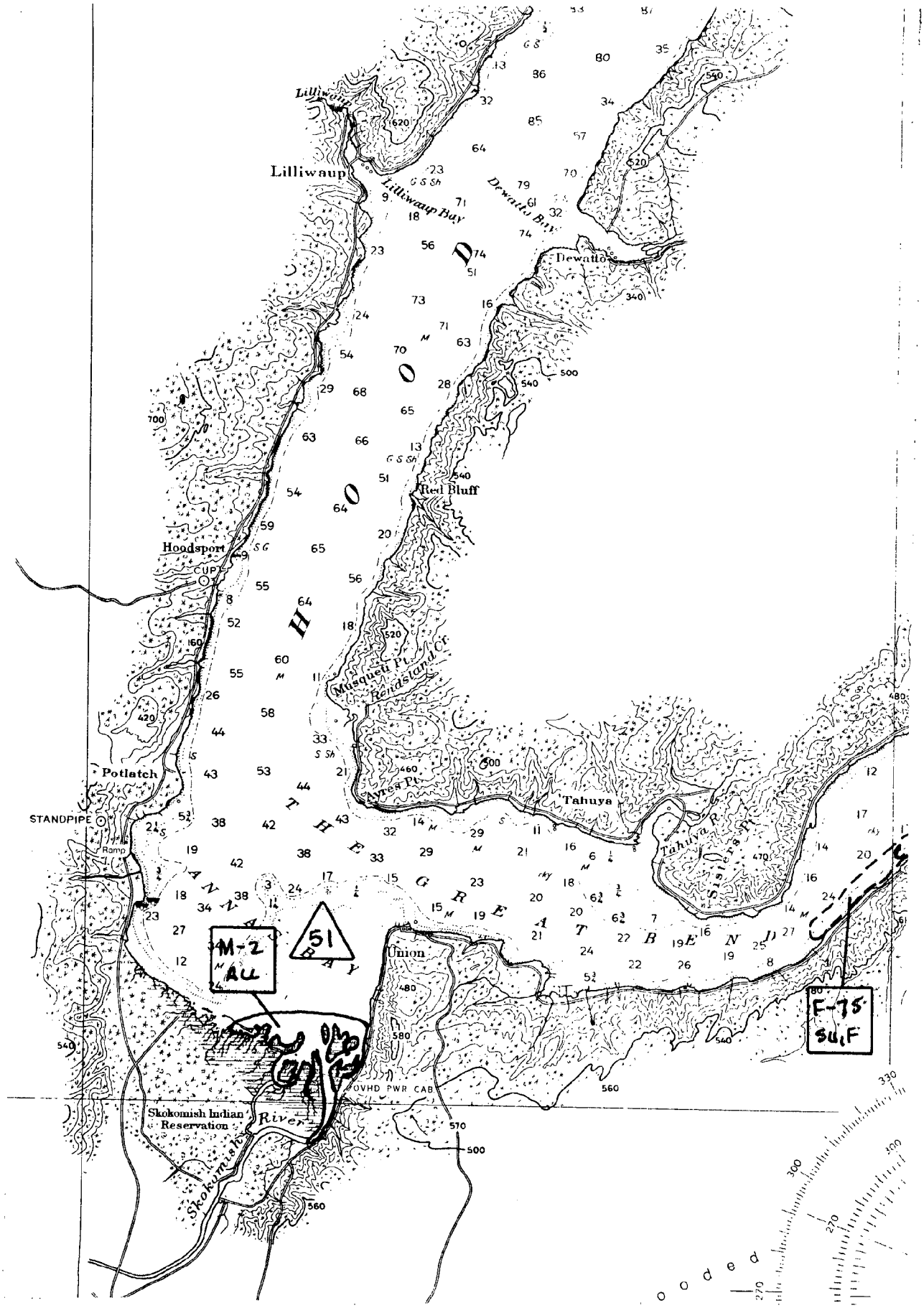
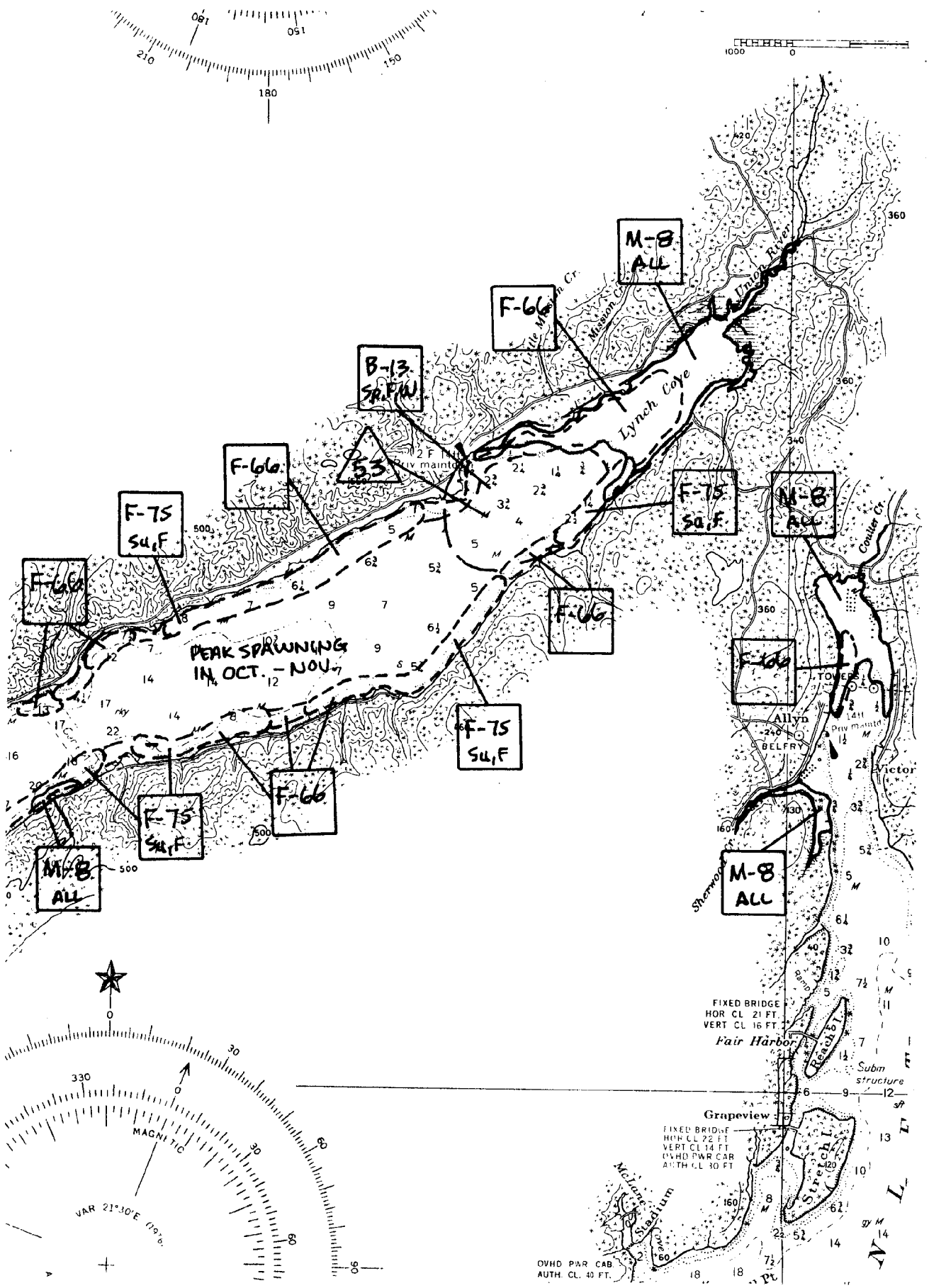




SHEET 3 PUGET SOUND - SEATTLE TO OLYMPIA



SHEET 4 PUGET SOUND - SEATTLE TO OLYMPIA

SHEET 5

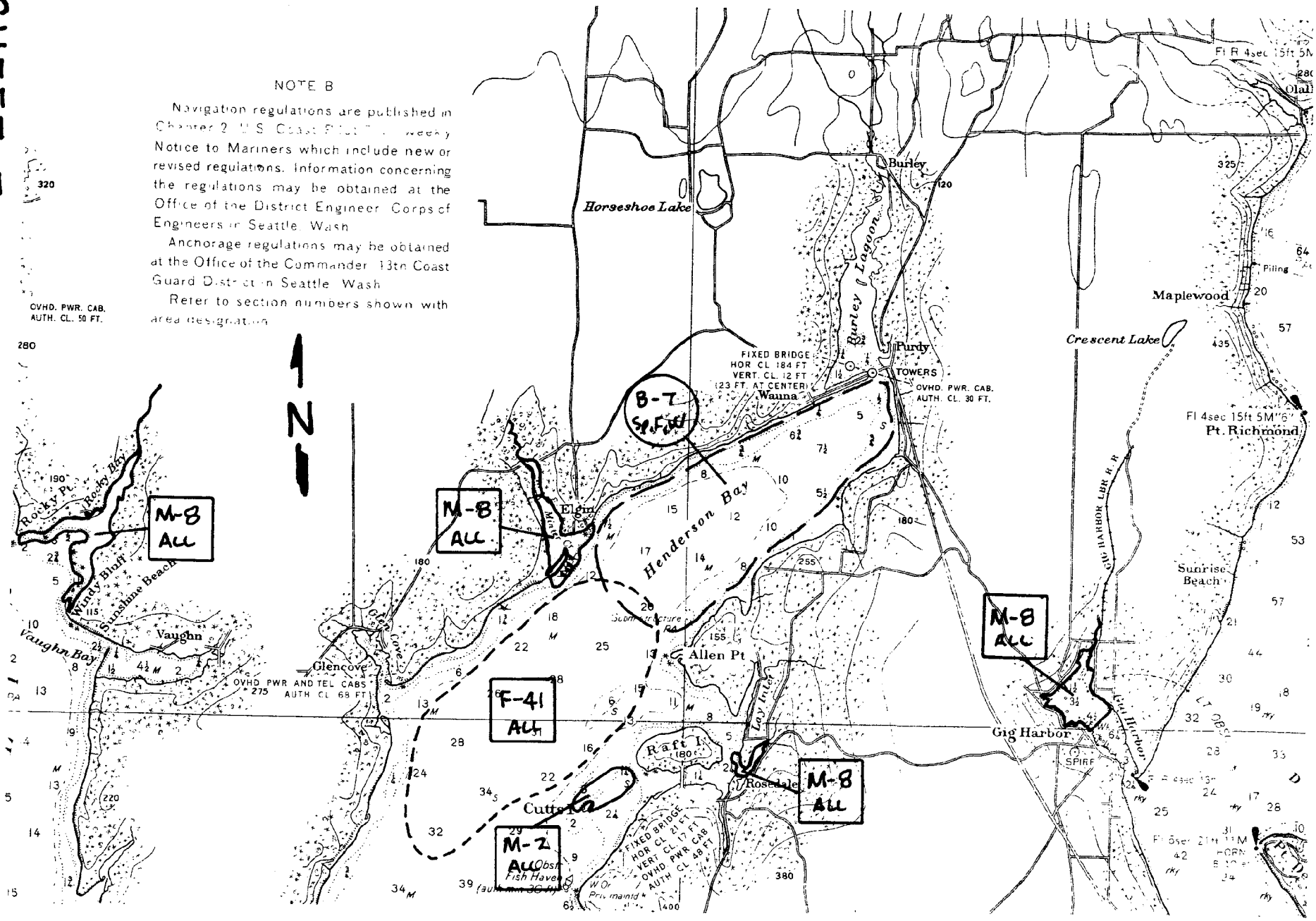
PUGET SOUND – SEATTLE TO OLYMPIA

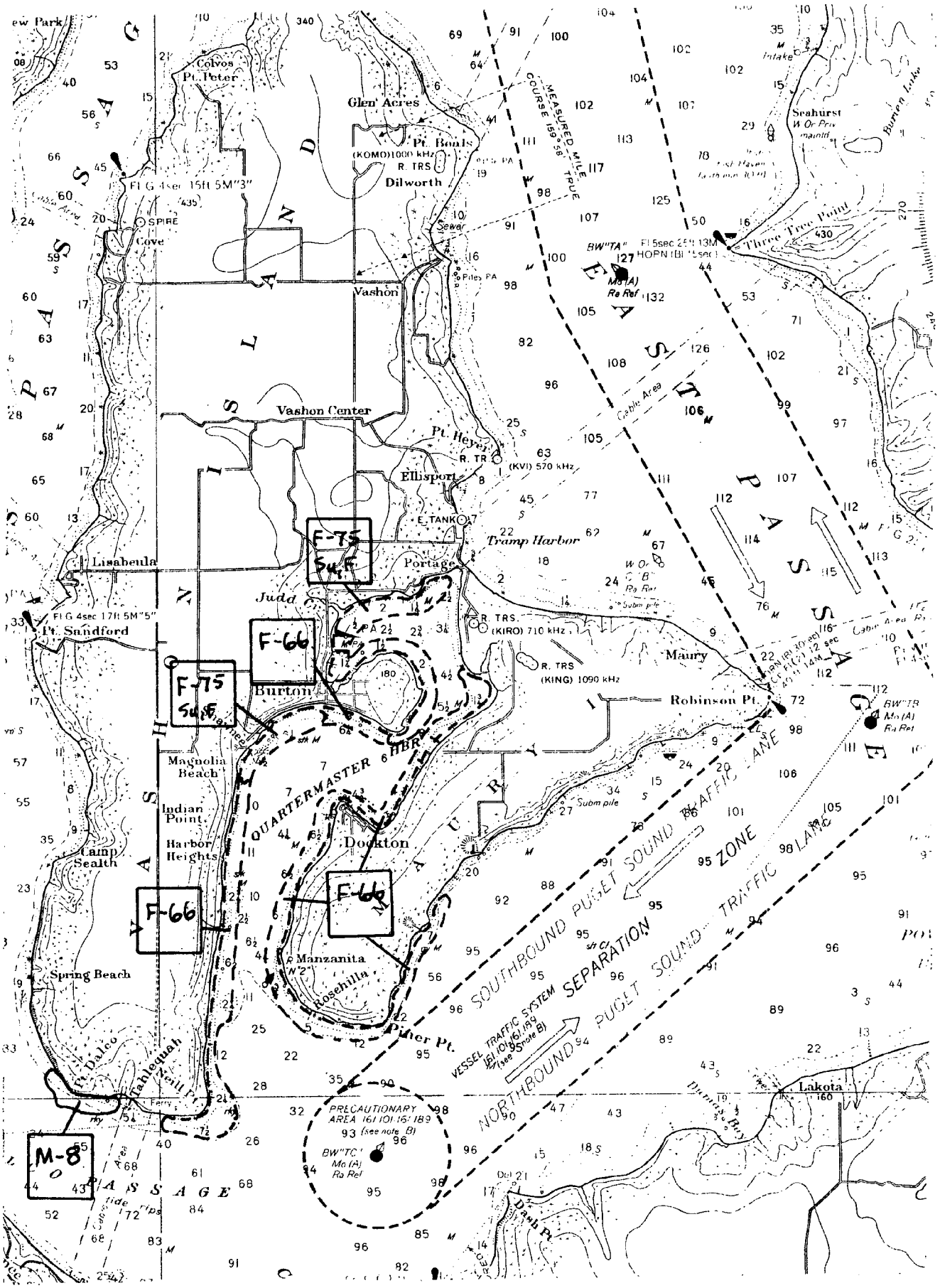
NOTE B

Navigation regulations are published in Chapter 2 U.S. Coast Pilot [illegible] weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer Corps of Engineers in Seattle Wash.

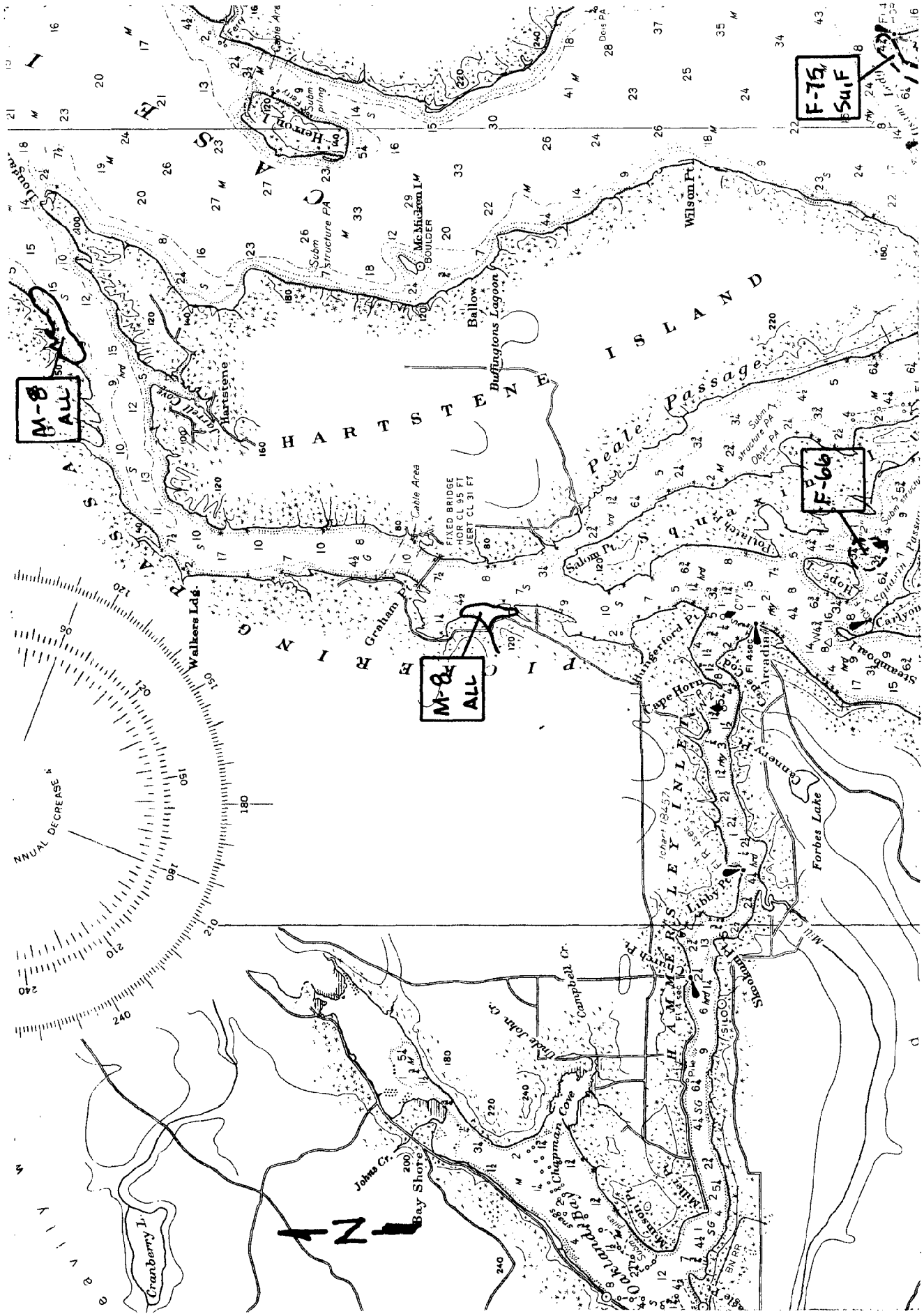
Anchorage regulations may be obtained at the Office of the Commander 13th Coast Guard District in Seattle Wash.

Refer to section numbers shown with area designation.



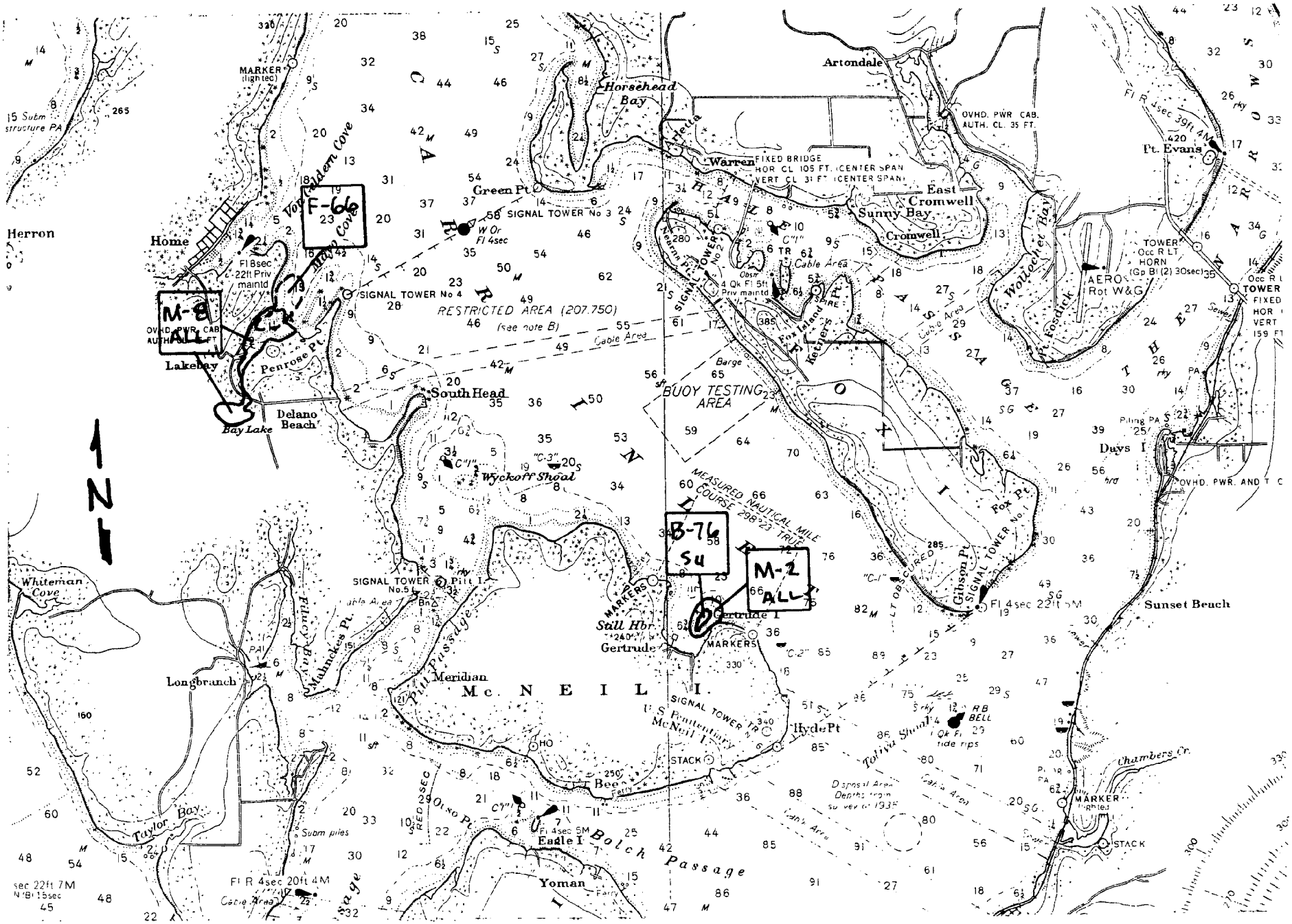


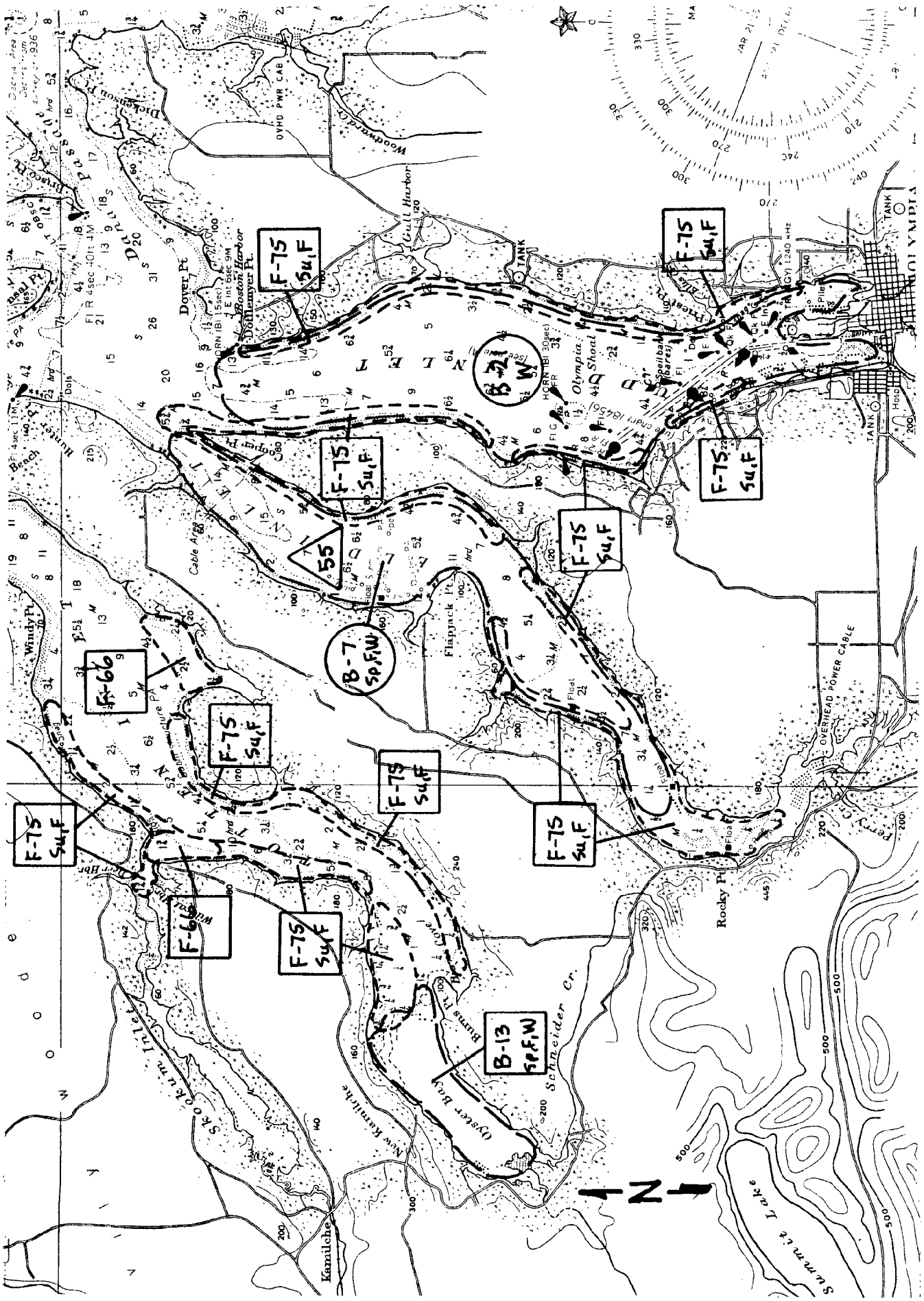
SHEET 6 PUGET SOUND - SEATTLE TO OLYMPIA



SHEET 7 PUGET SOUND – SEATTLE TO OLYMPIA

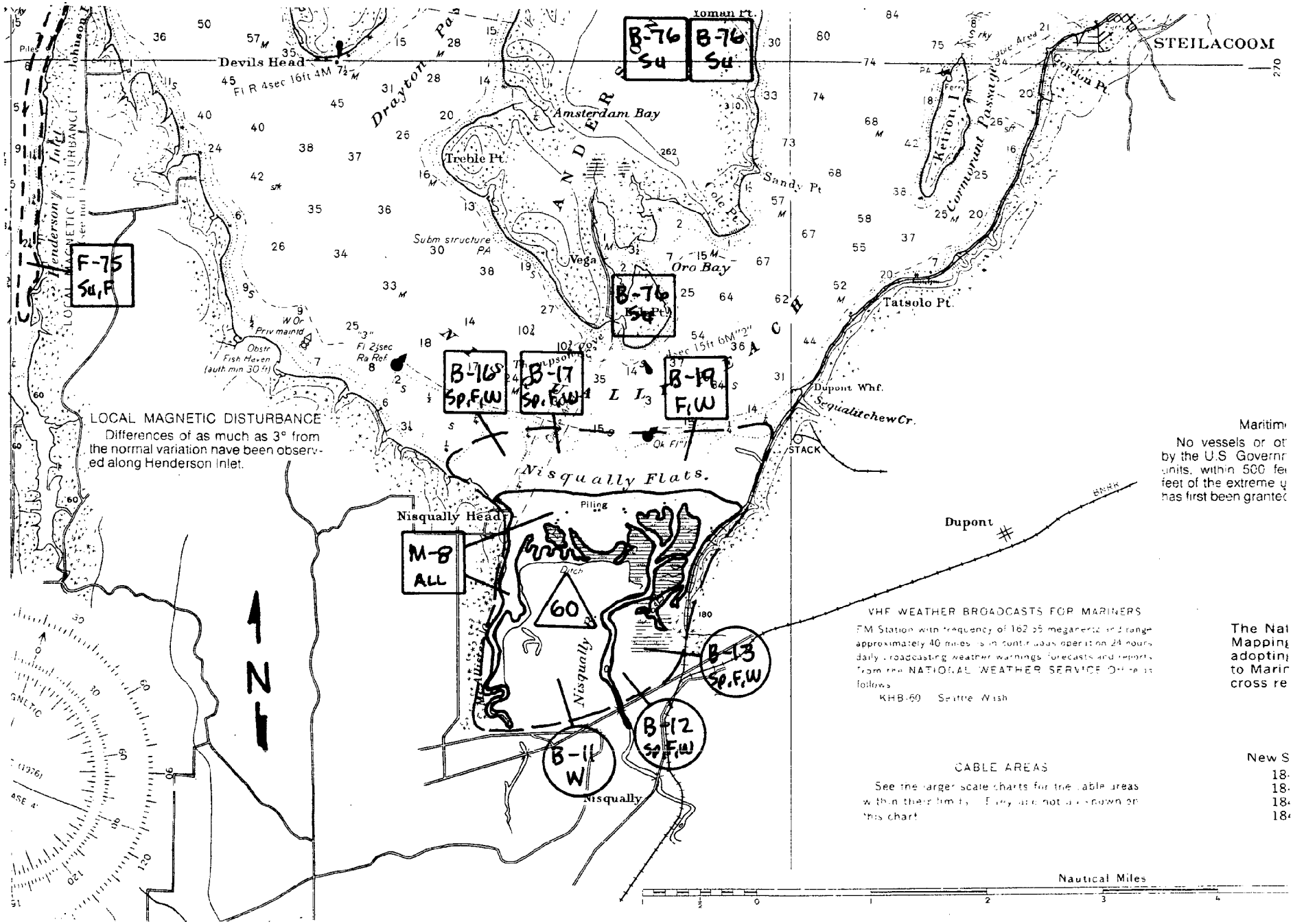
SHEET 8 PUGET SOUND - SEATTLE TO OLYMPIA





SHEET 9 PUGET SOUND – SEATTLE TO OLYMPIA

SHEET 10 PUGET SOUND - SEATTLE TO OLYMPIA



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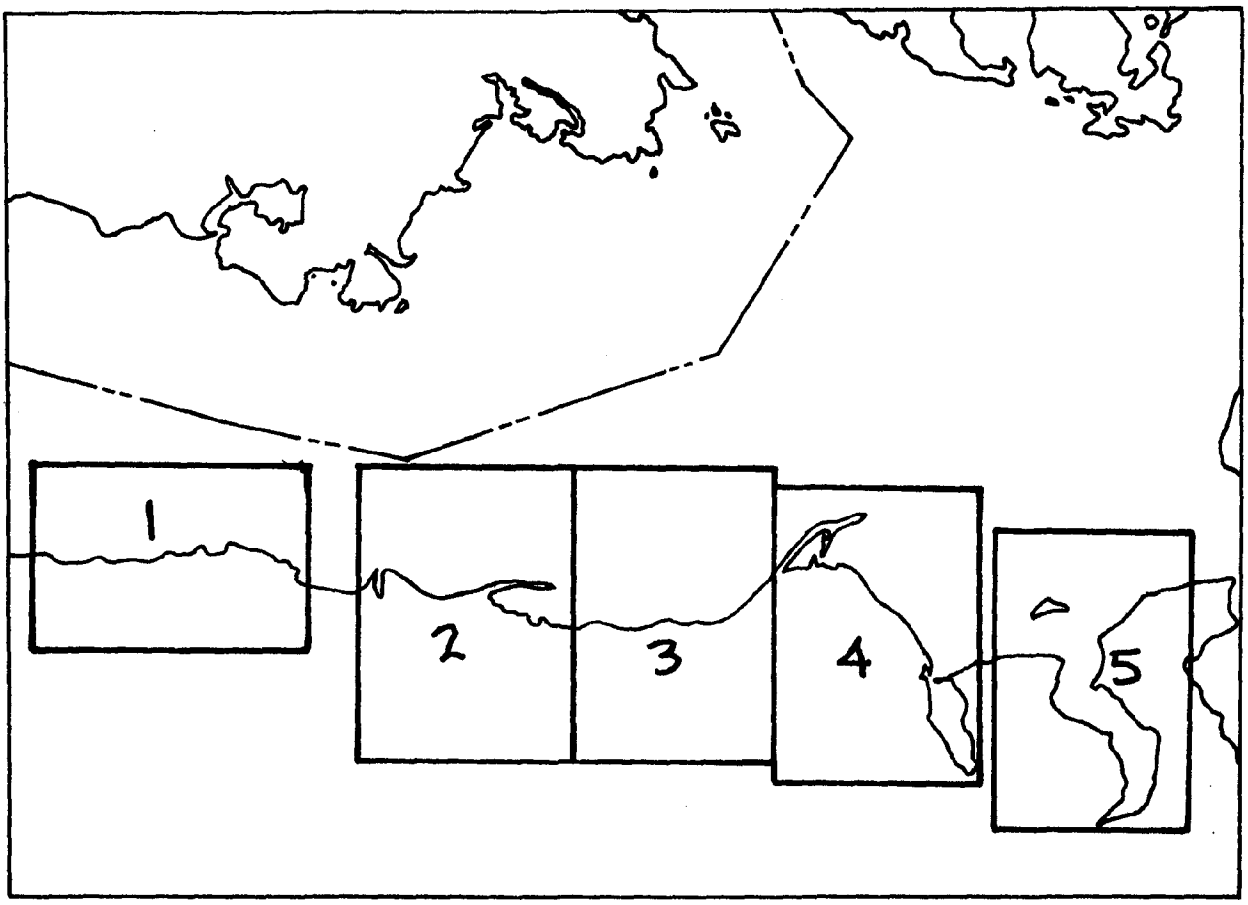

STRAIT OF JUAN DE FUCA - EASTERN PART (NOAA CHART 6382)

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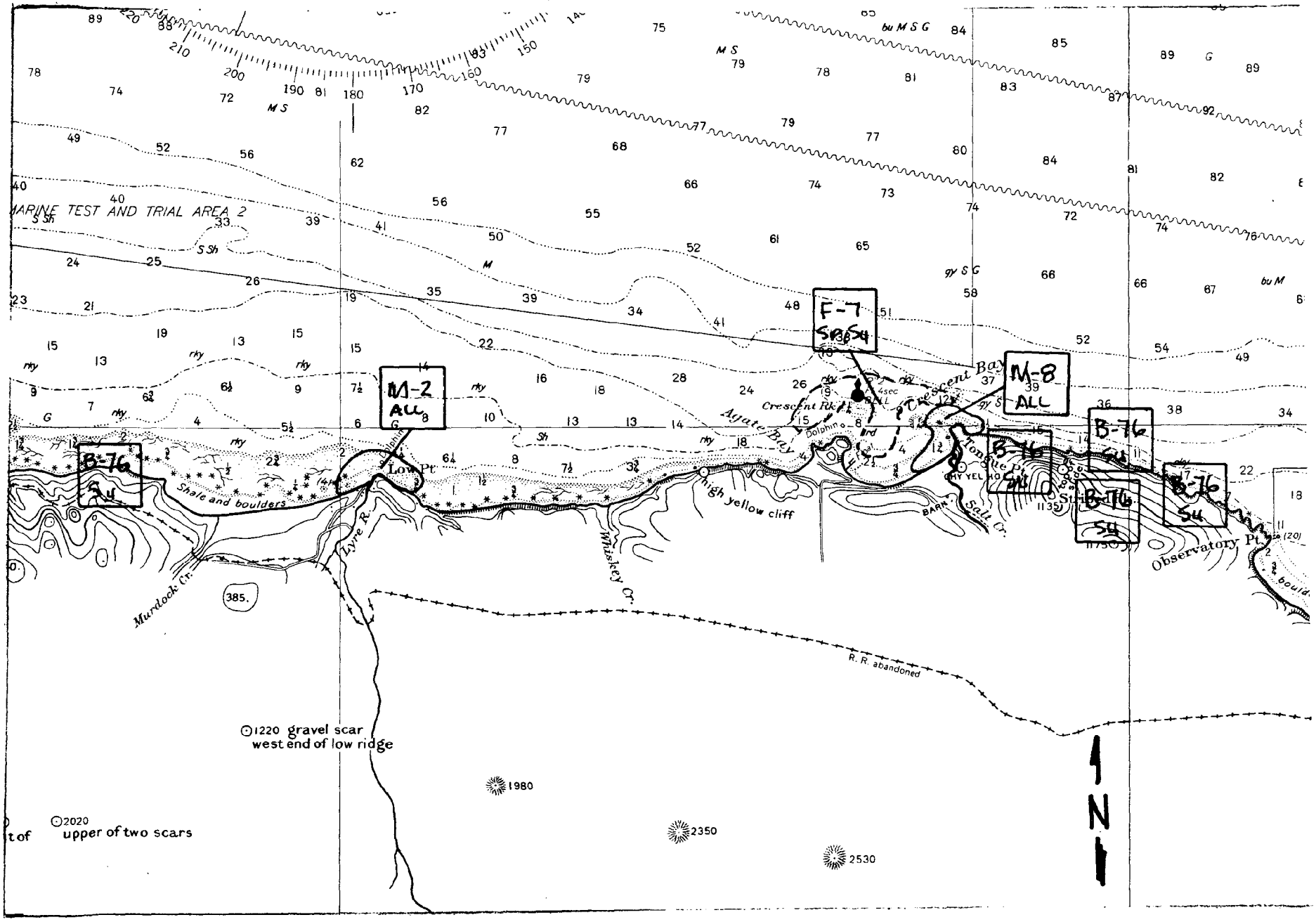
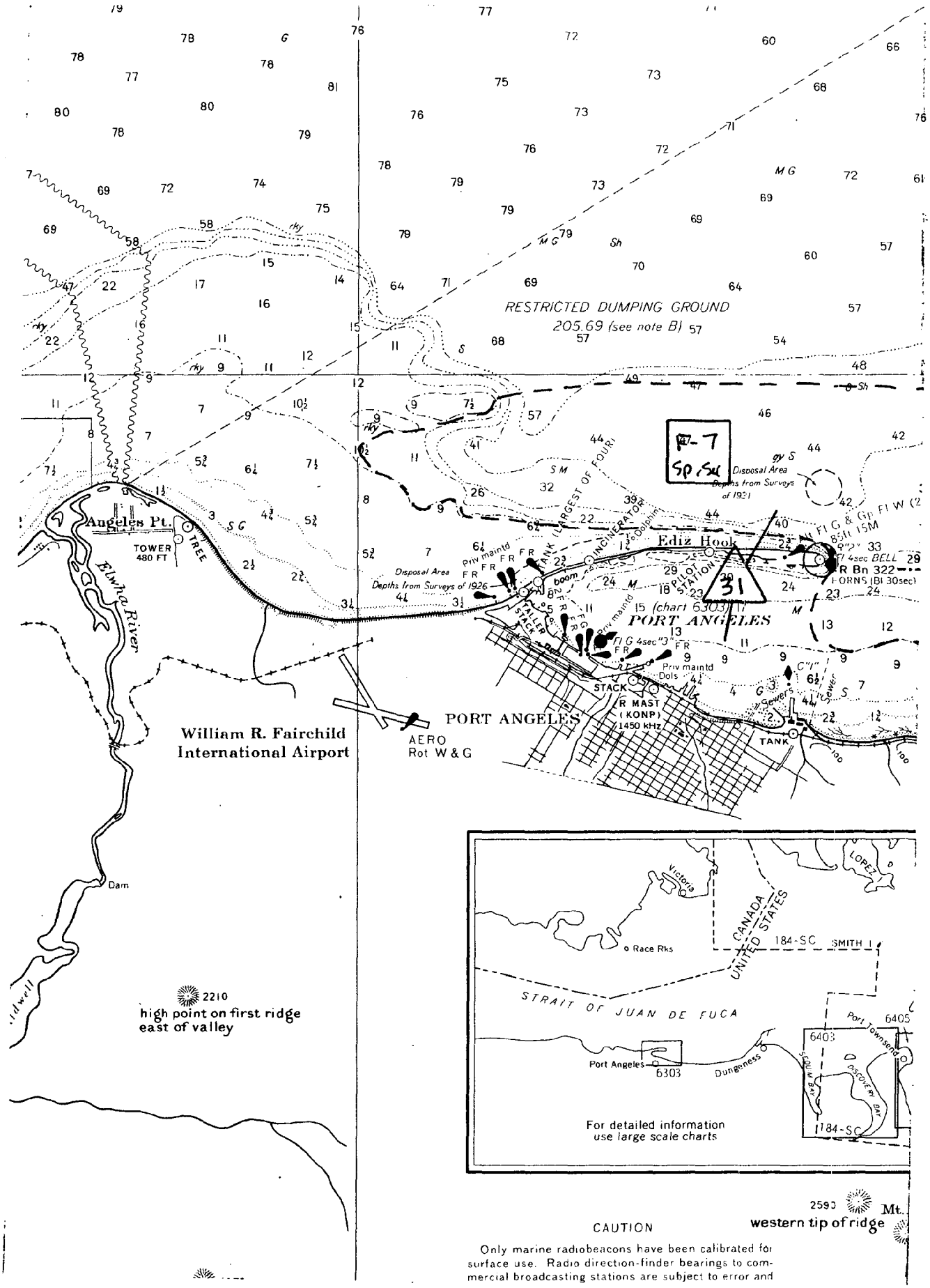
SHEET 1

STRAIT OF JUAN DE FUCA - EASTERN PART





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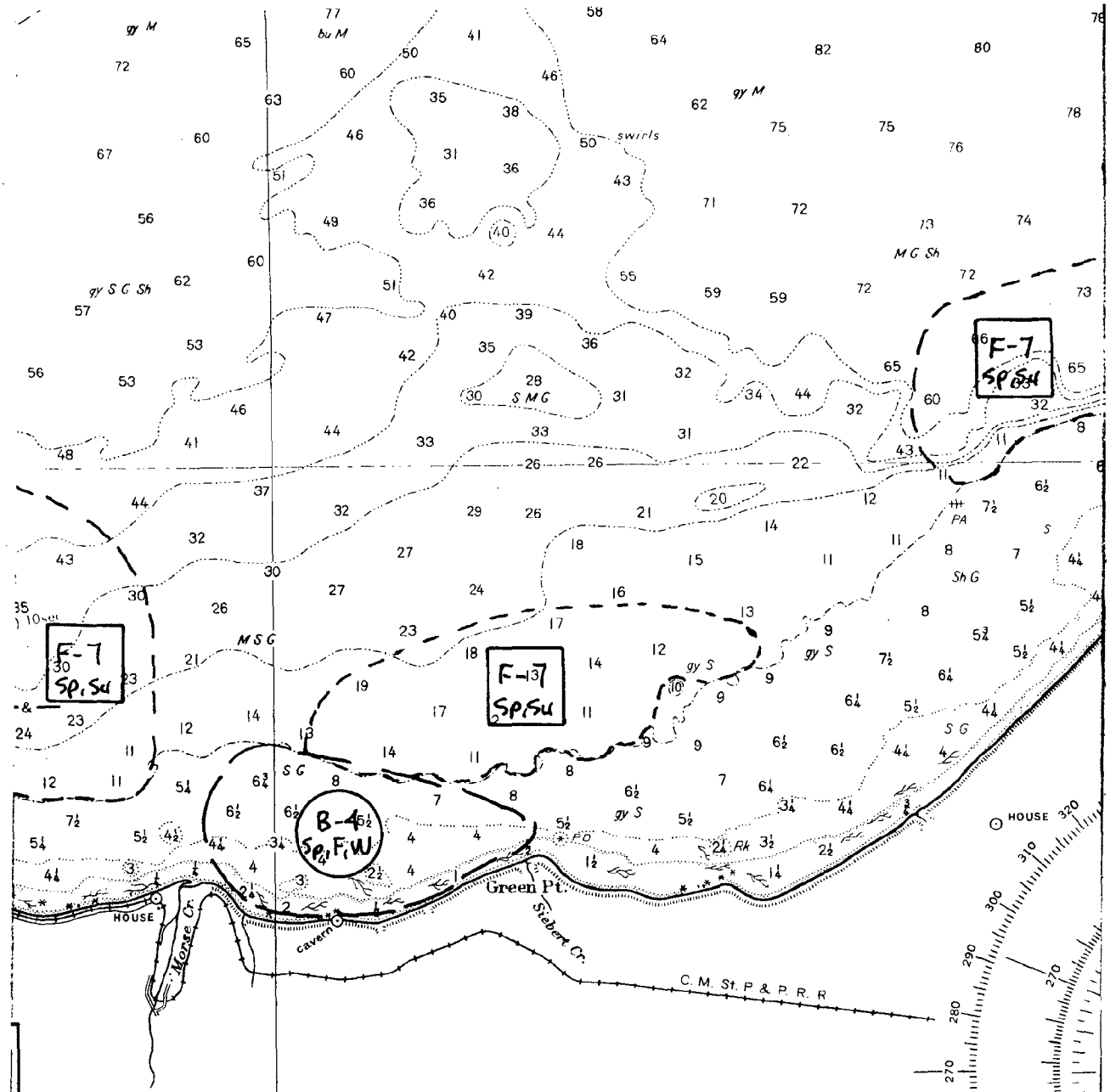


NOTE A

Navigation regulations are published in Chapter 2, Coast Pilot 7, or subsequent yearly supplements and weekly Notices to Mariners. Copies of the regulations may be obtained at the office of the District Engineer, Corps of Engineers in Seattle, Wash.

Anchorage regulations may be obtained at the office of the Commander, 13th Coast Guard District in Seattle, Wash.

Refer to section numbers shown with area designation.

NOTE B

RESTRICTED DUMPING GROUND

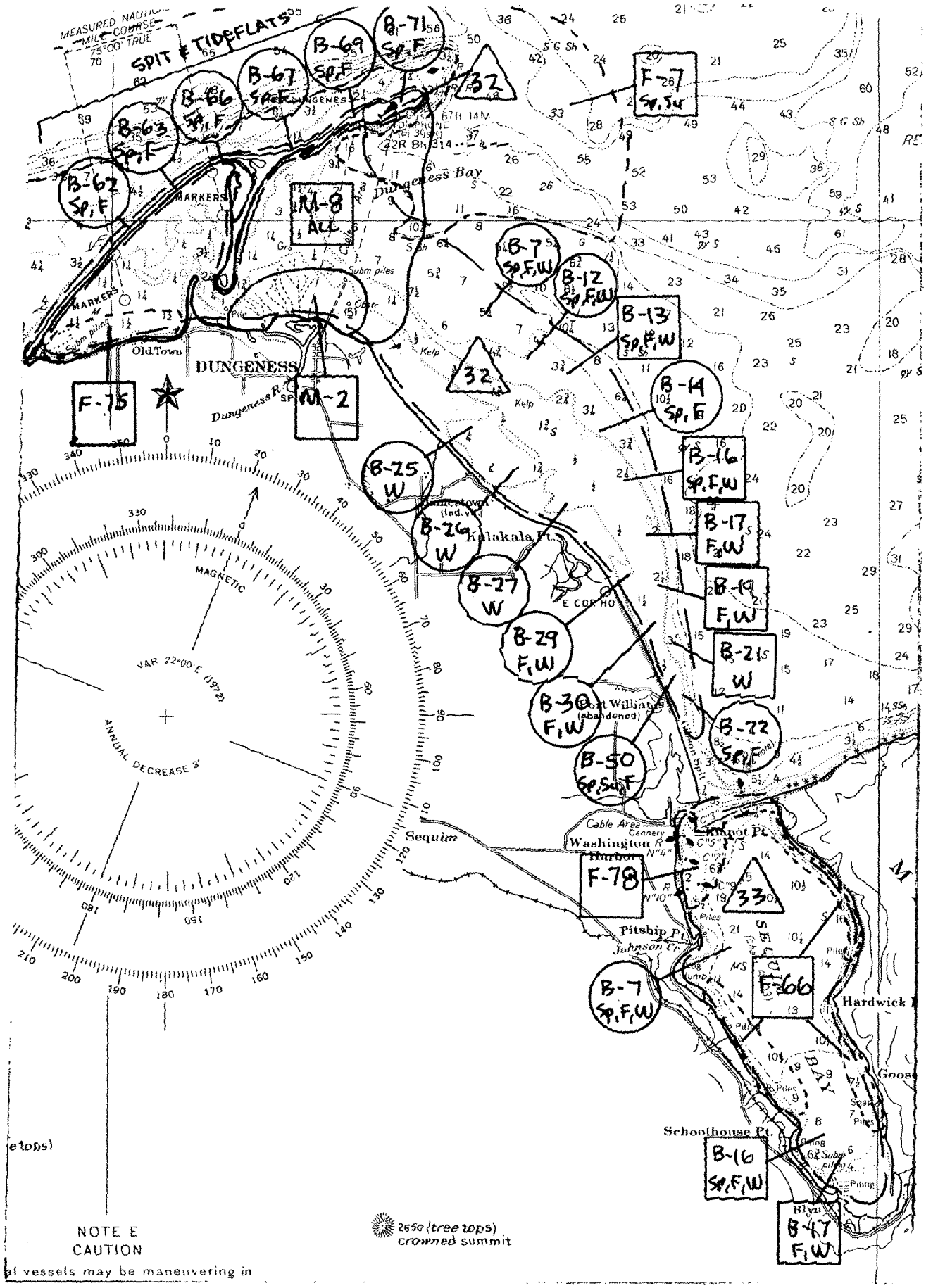
Dumping or throwing overboard metallic and other solid objects, except as authorized by the District Engineer, Corps of Engineers, in Seattle, is strictly prohibited.

Pleasant

2680
eastern tip (higher)

Lost M

SHEET 3 STRAIT OF JUAN DE FUCA - EASTERN PART



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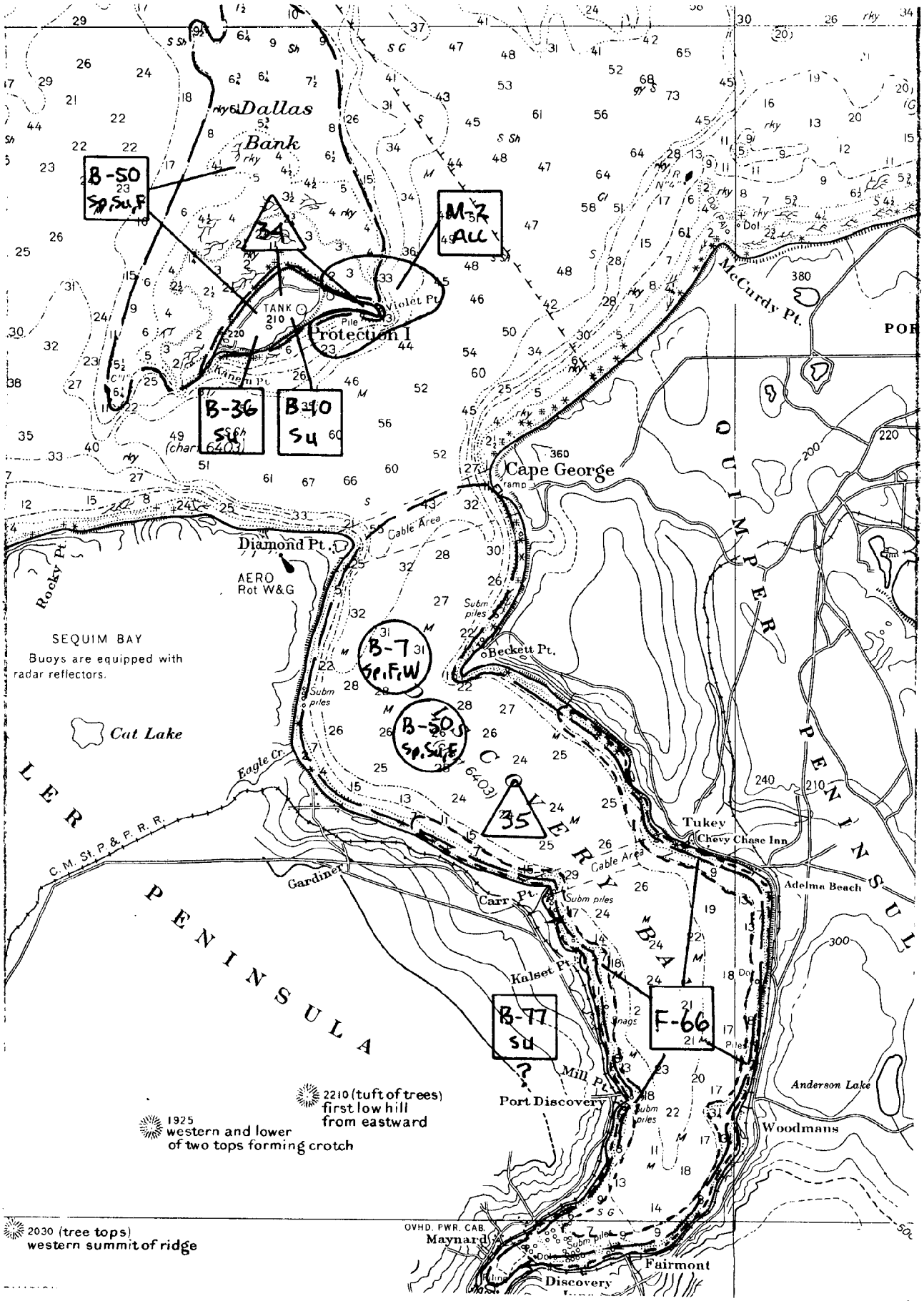

SHEET 5 STRAIT OF JUAN DE FUCA - EASTERN PART

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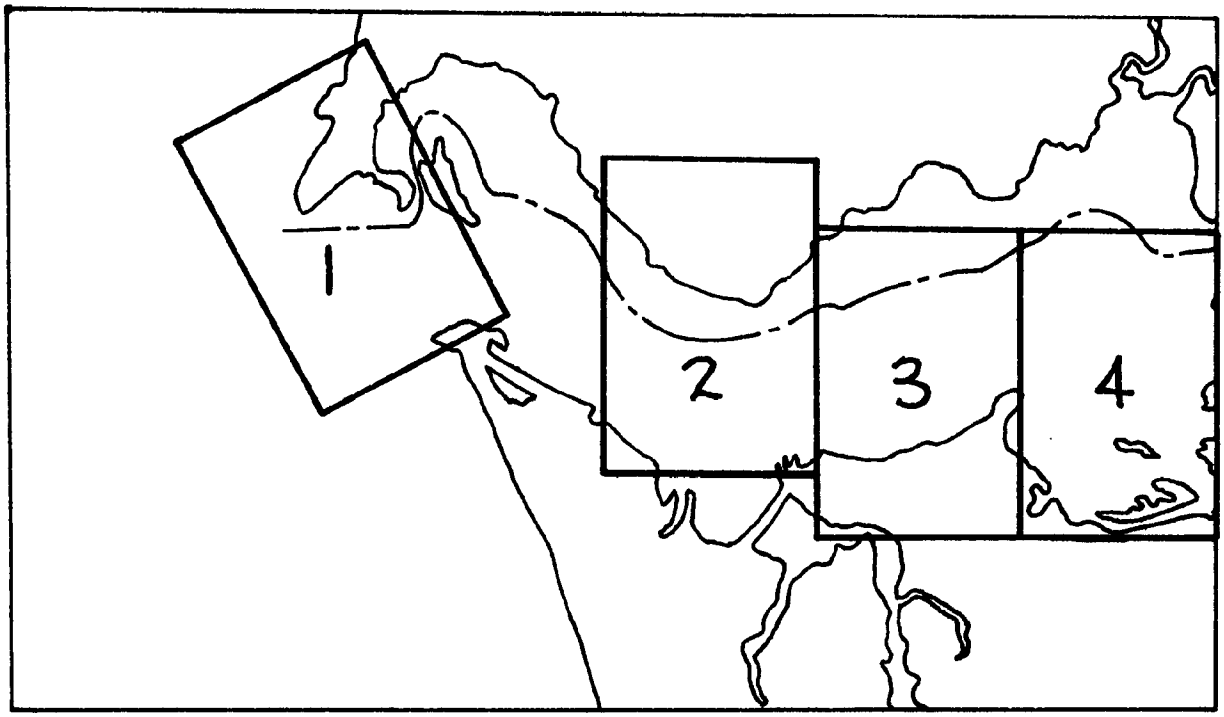

COLUMBIA RIVER, PACIFIC OCEAN TO HARRINGTON PT. (NOAA CHART 18521)

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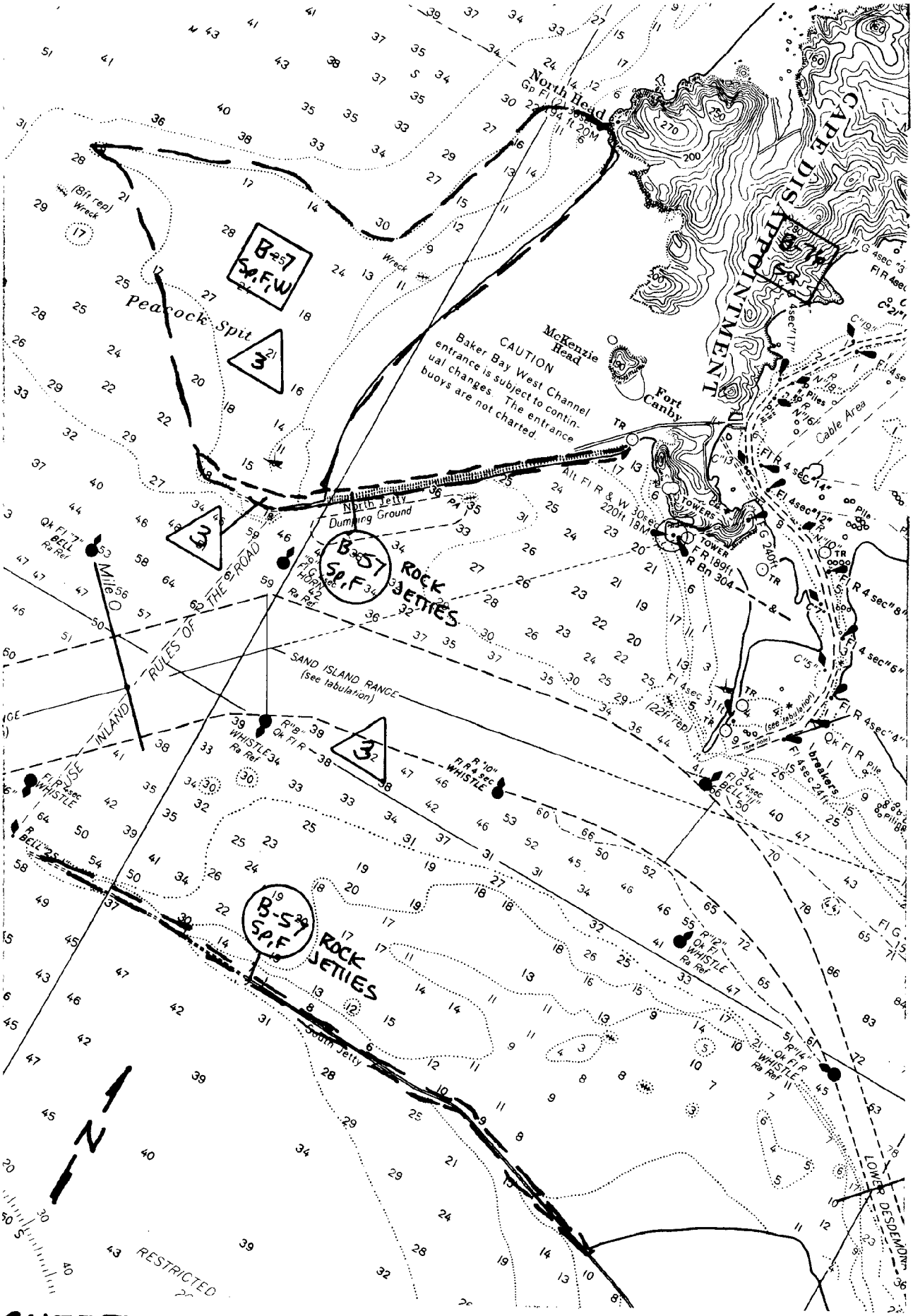
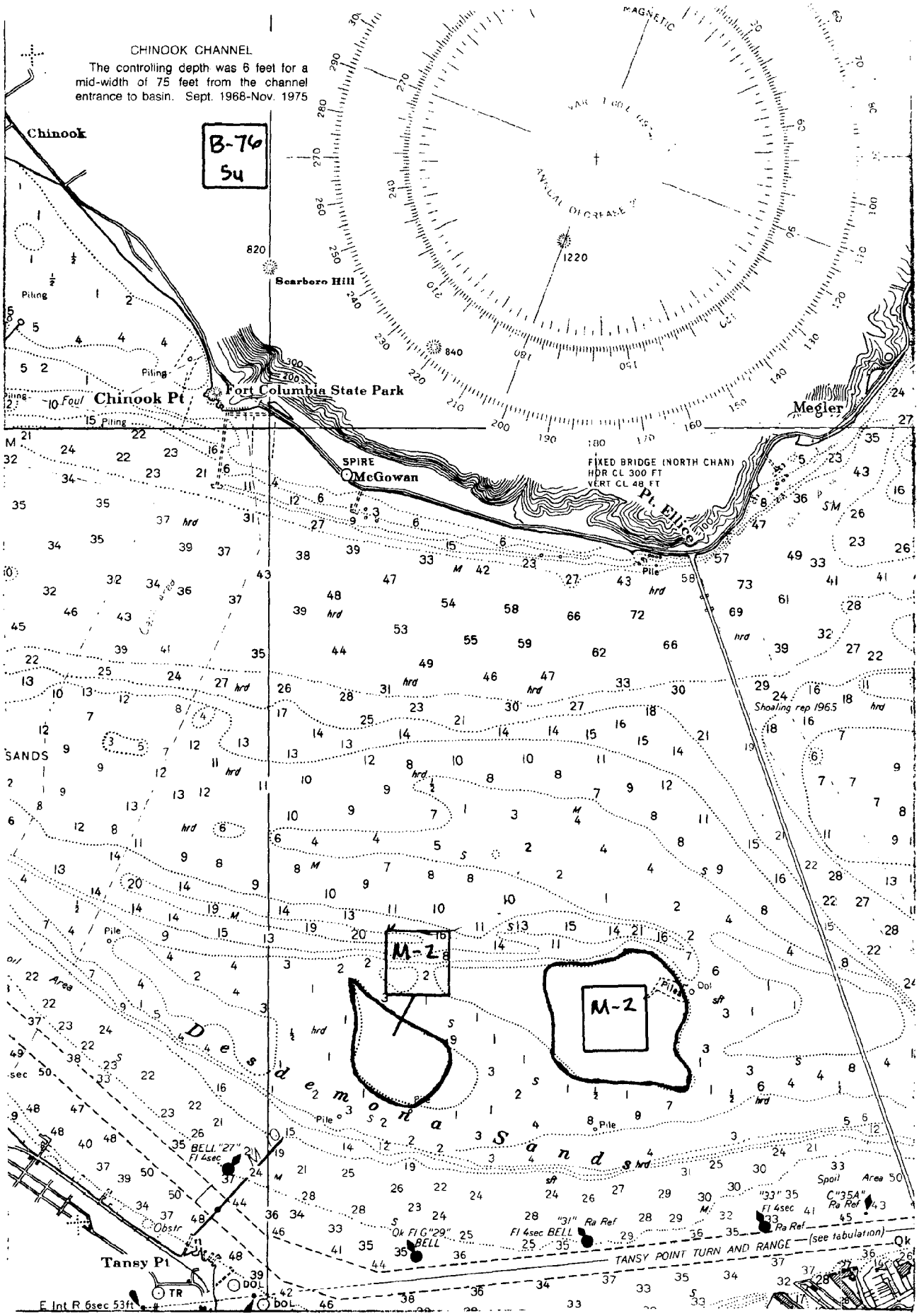
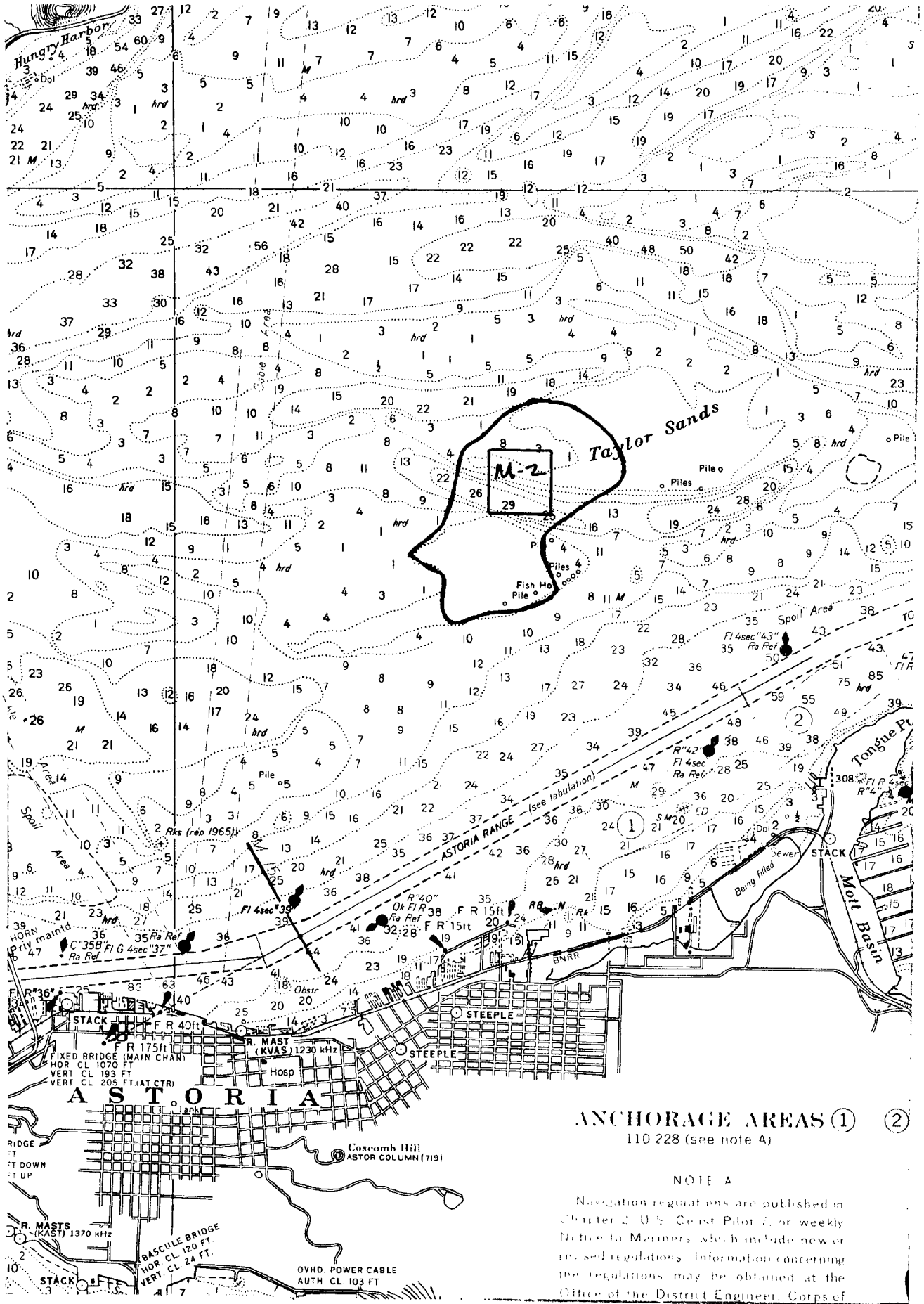


SHEET 1 COLUMBIA RIVER, PACIFIC OCEAN TO HARRINGTON PT.



SHEET 2 COLUMBIA RIVER, PACIFIC OCEAN TO HARRINGTON PT.



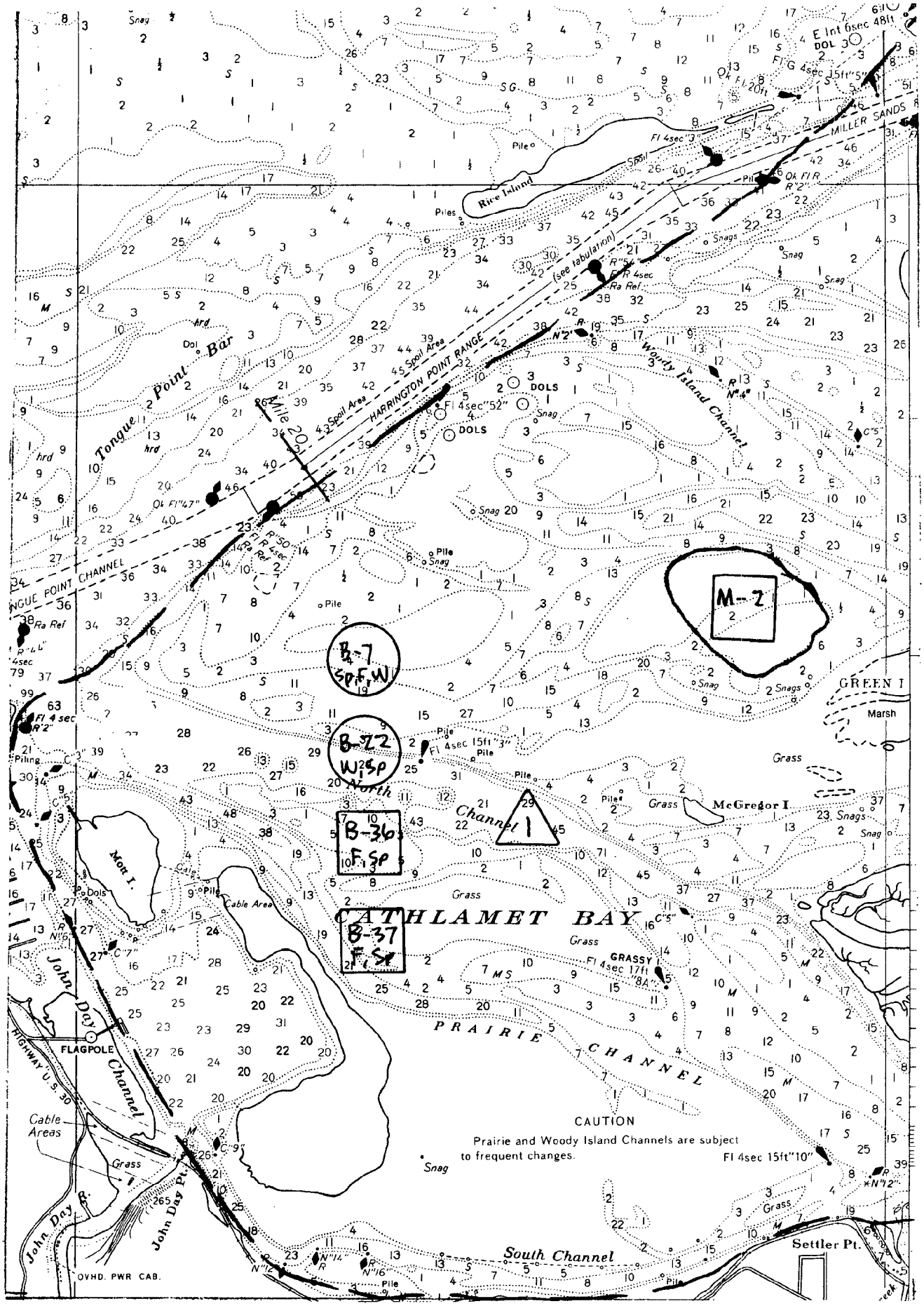
ANCHORAGE AREAS (1) (2)

110 228 (see note A)

NOTE A

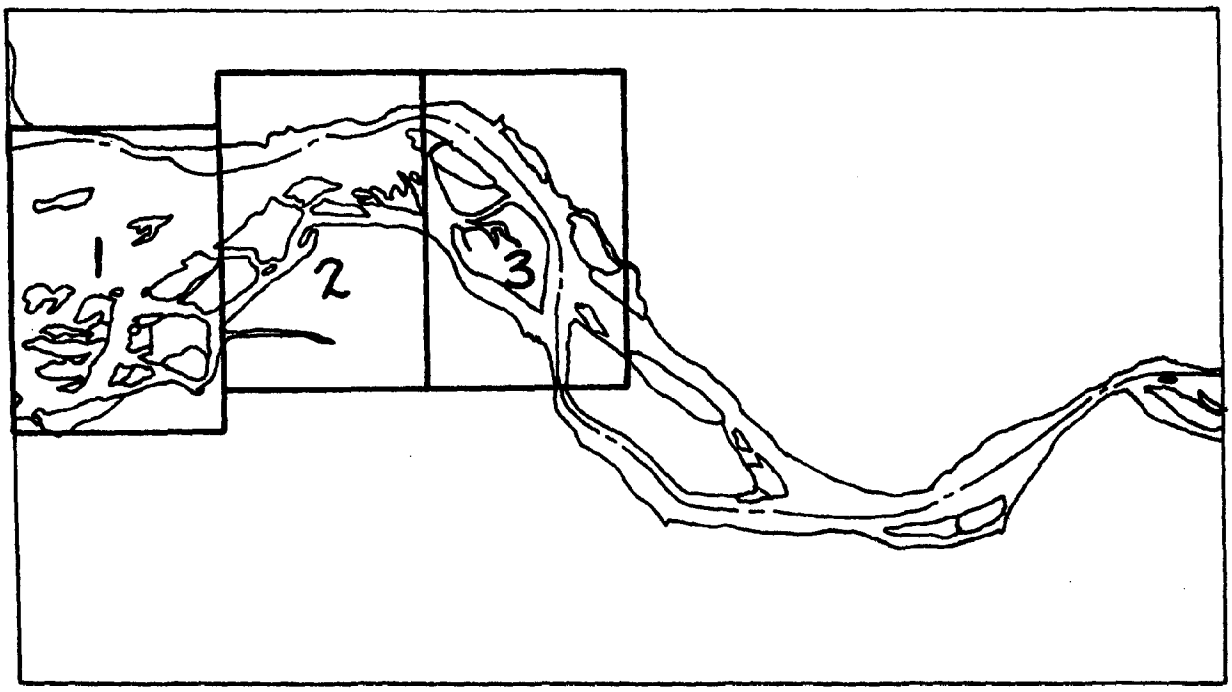
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7, or weekly Notice to Mariners which include new or revised regulations. Information concerning the regulations may be obtained at the Office of the District Engineer, Corps of

SHEET 3 COLUMBIA RIVER, PACIFIC OCEAN TO HARRINGTON PT.



SHEET 4 COLUMBIA RIVER, PACIFIC OCEAN TO HARRINGTON PT.

SHEET INDEX



COLUMBIA RIVER, HARRINGTON PT. TO CRIMS IS. (NOAA CHART 18523)

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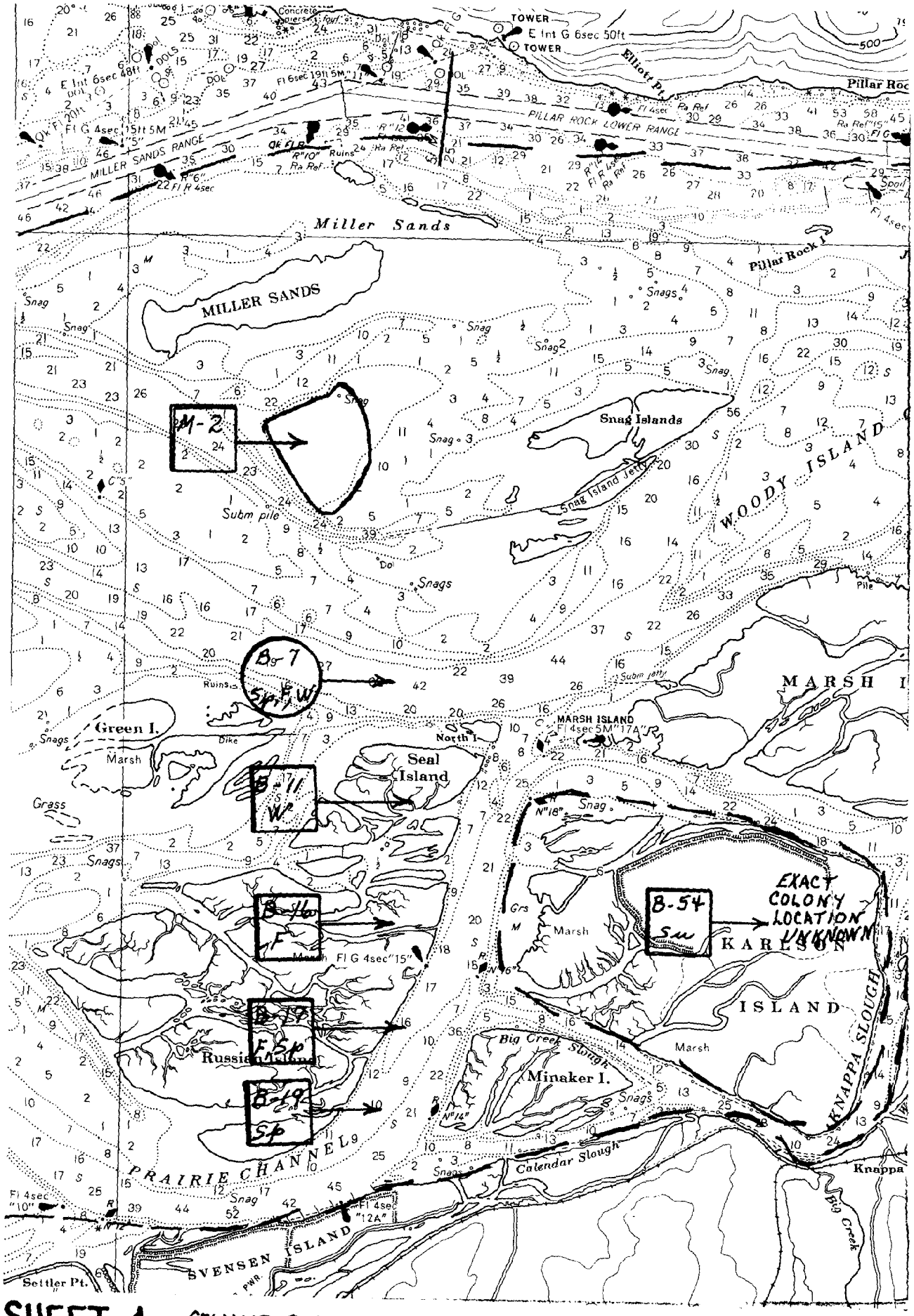

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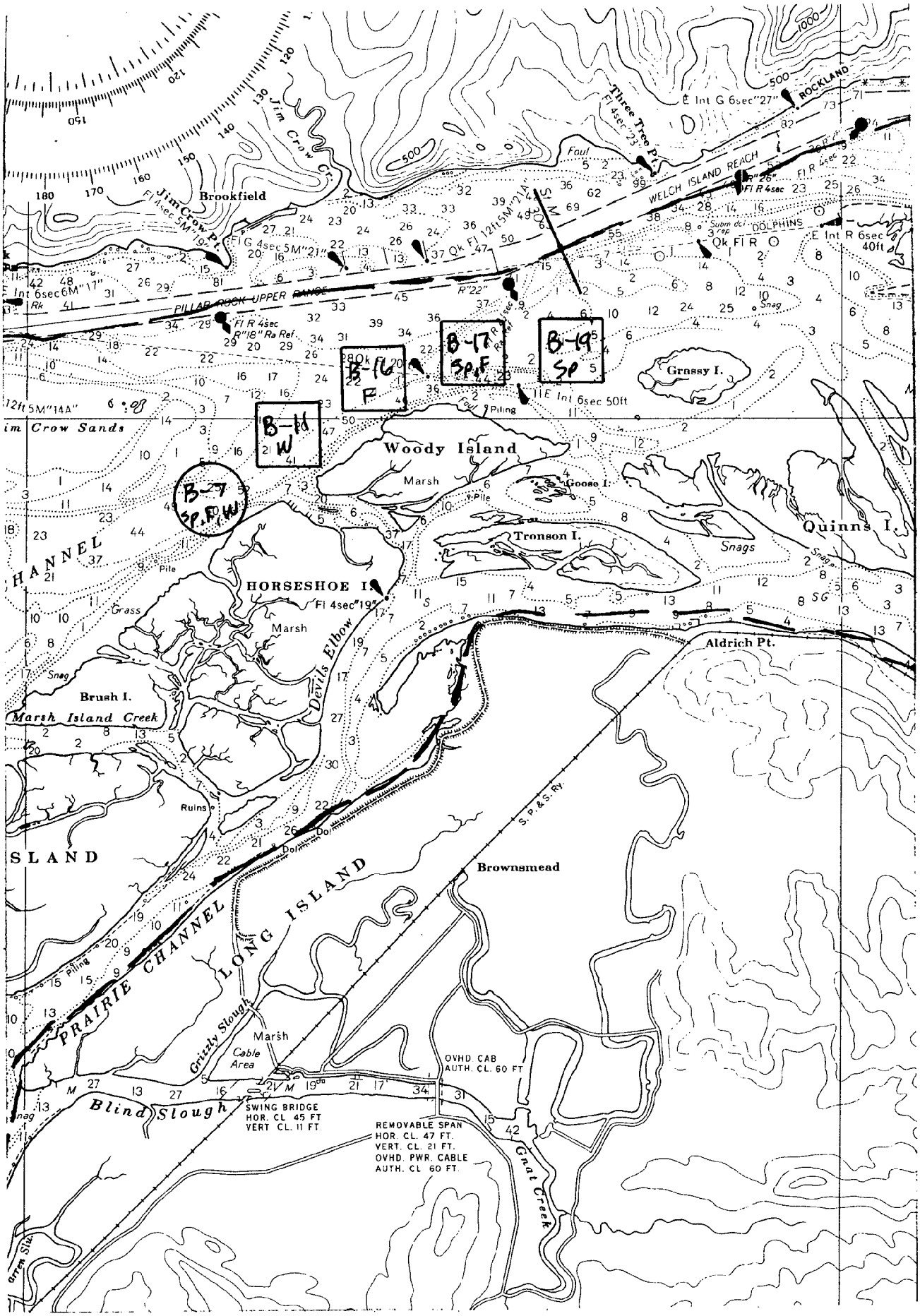

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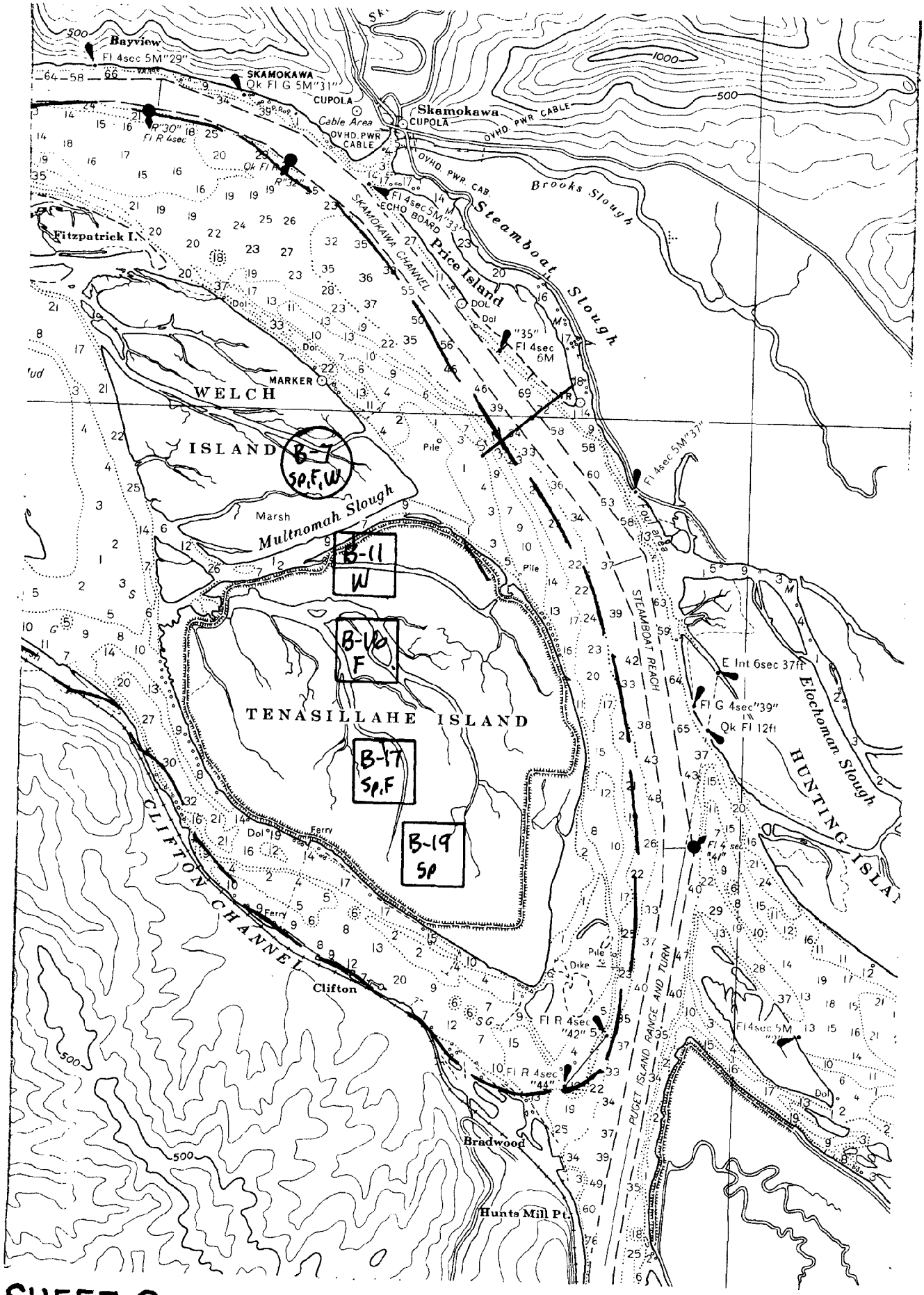
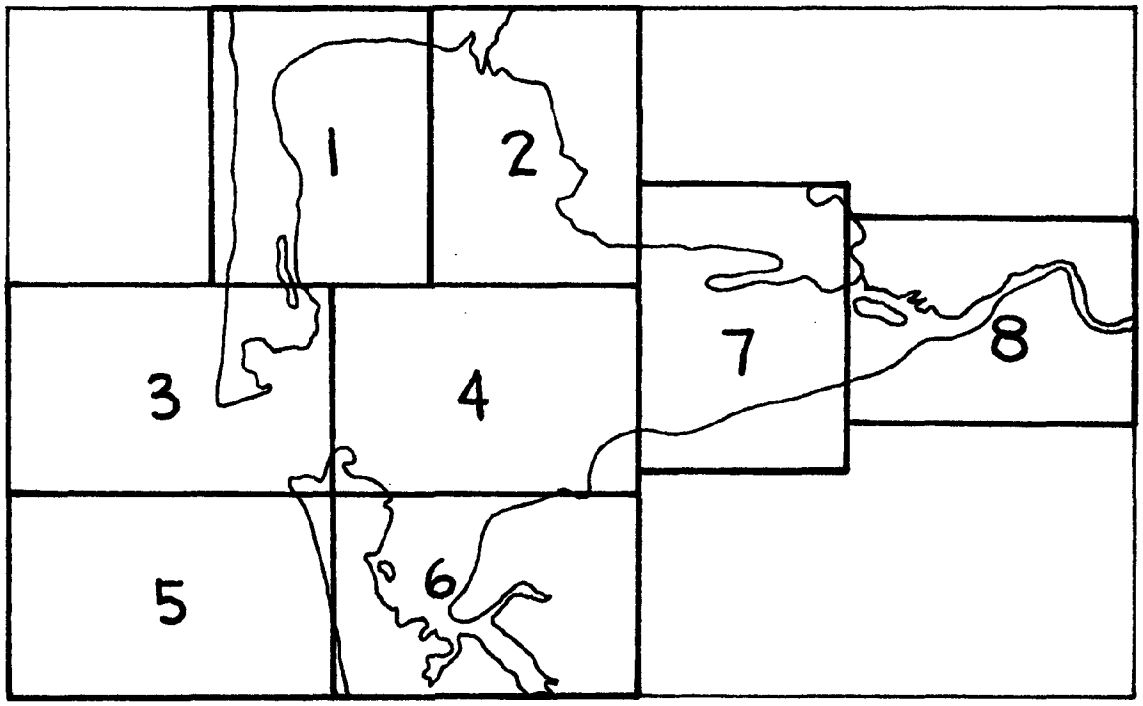


SHEET 3 COLUMBIA RIVER, HARRINGTON PT. TO CRIMS ISLAND

SHEET INDEX



GRAYS HARBOR (NOAA CHART 18502)

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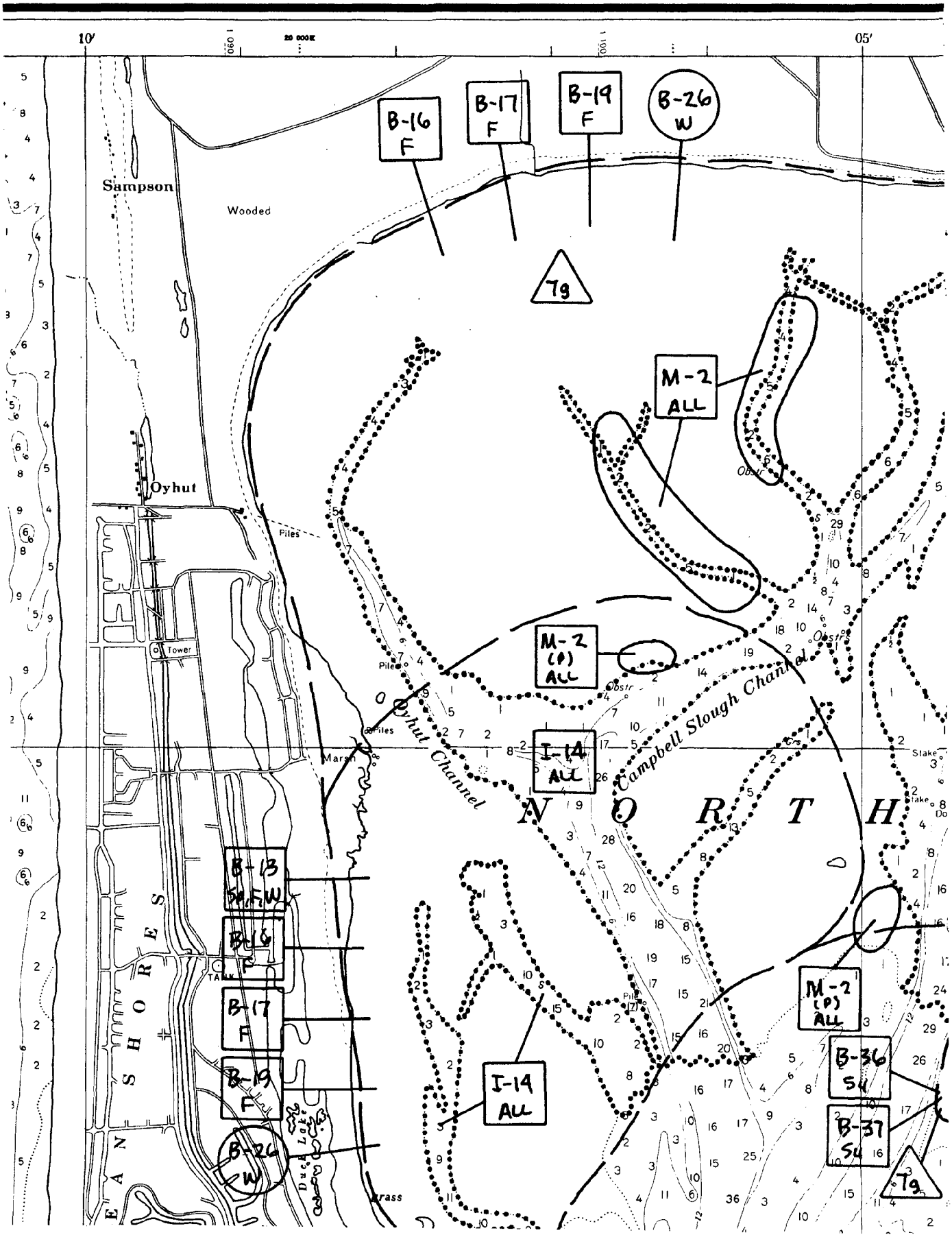

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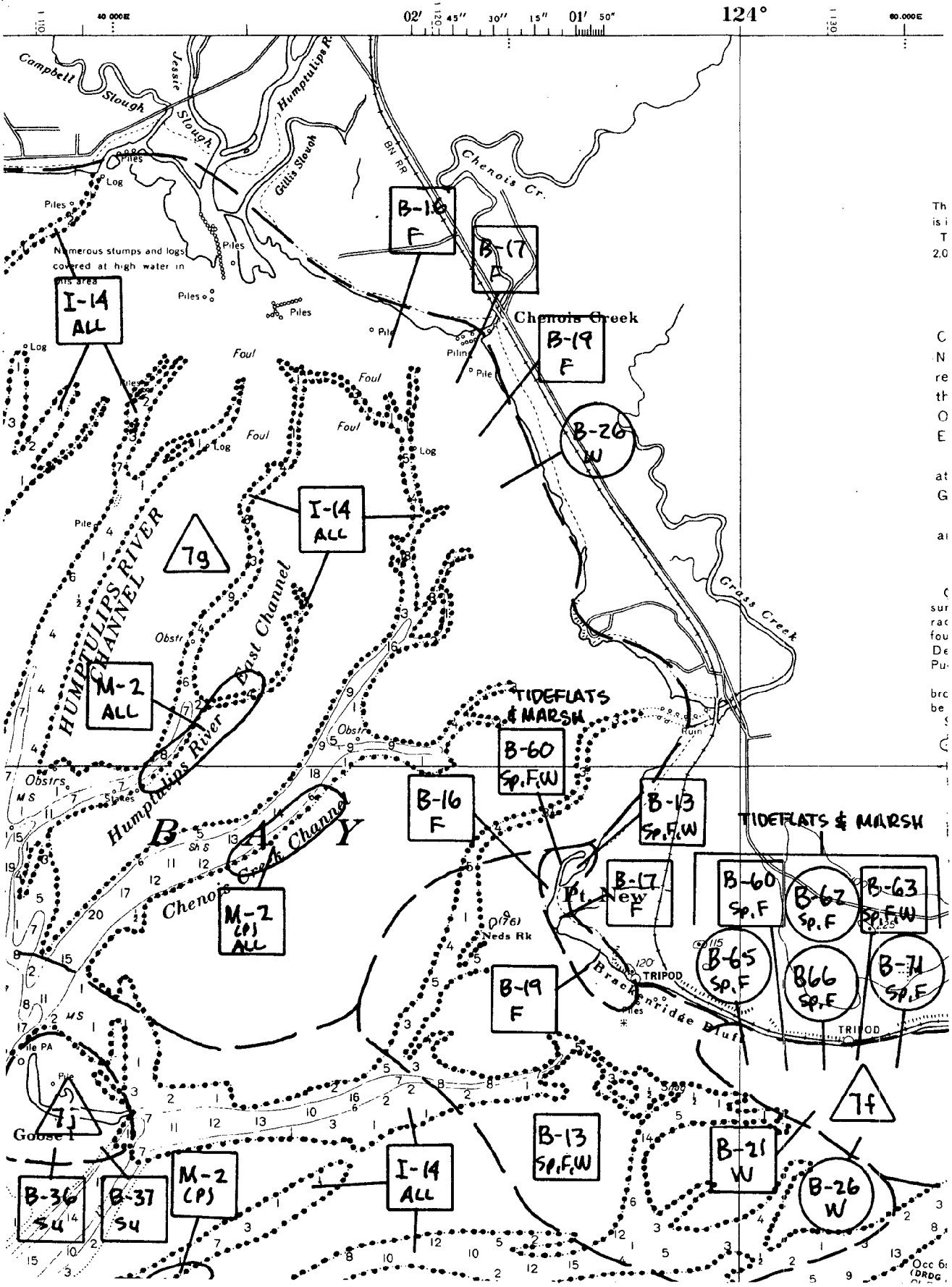

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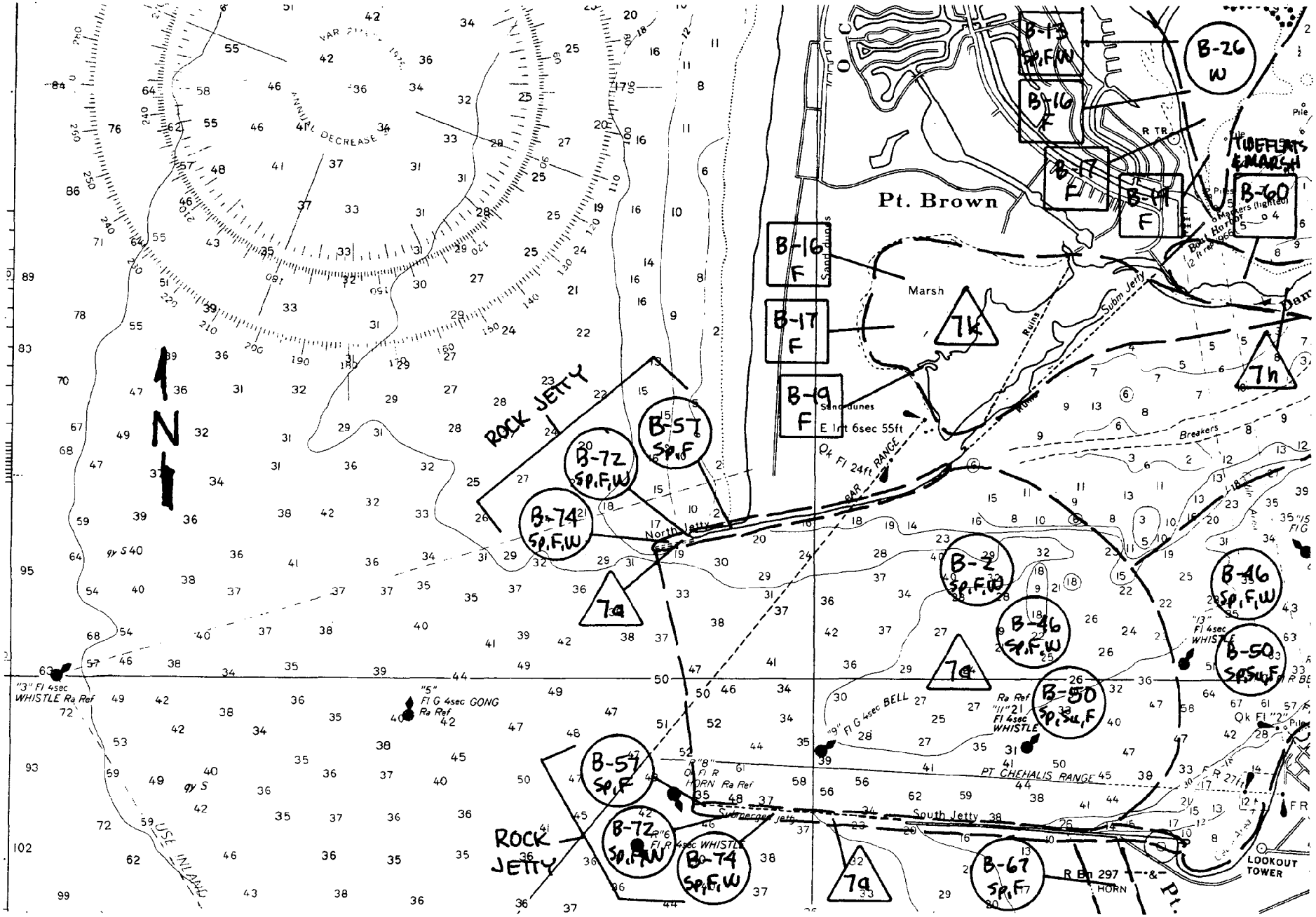
SHEET 3 GRAYS HARBOR



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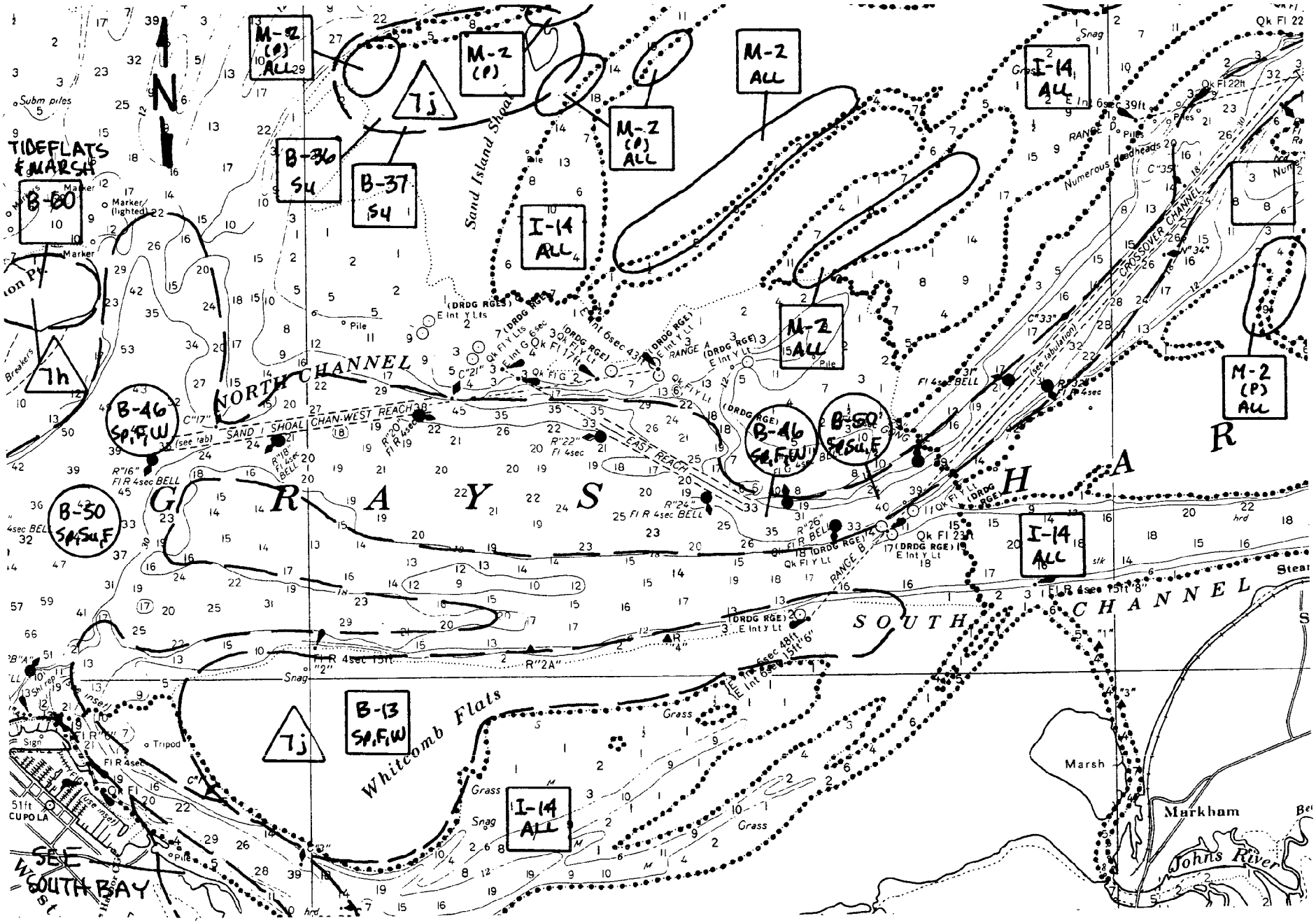

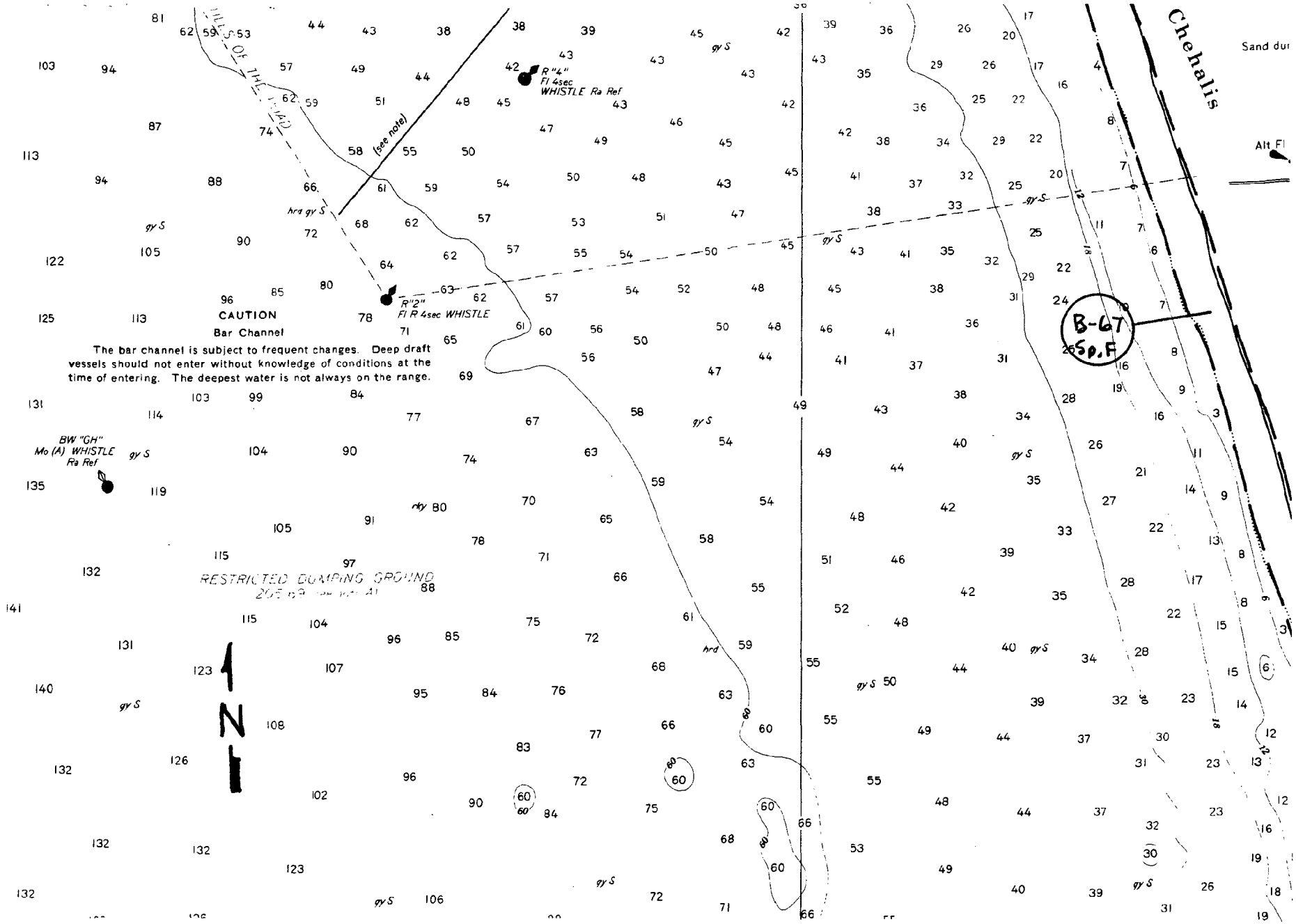

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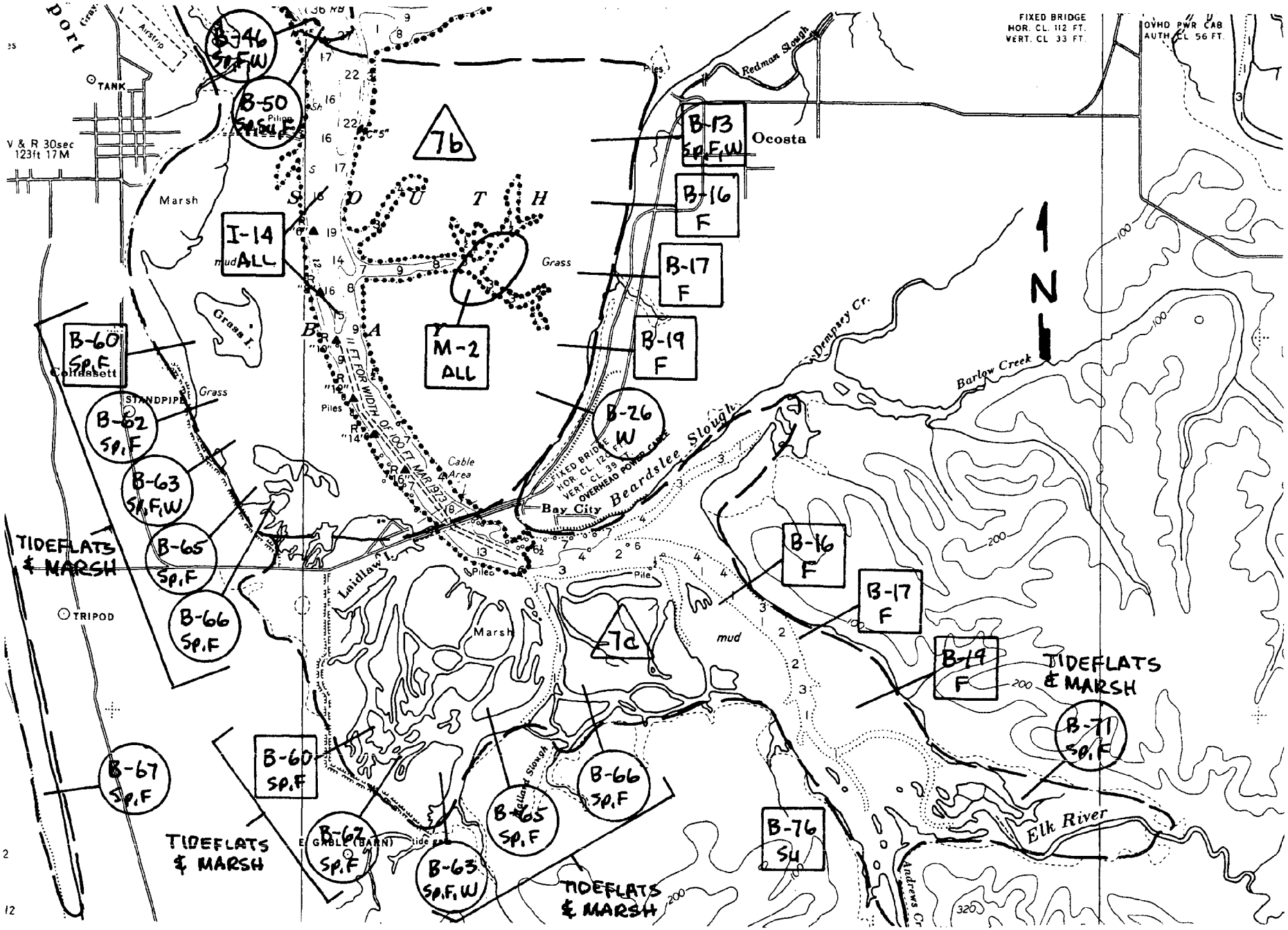
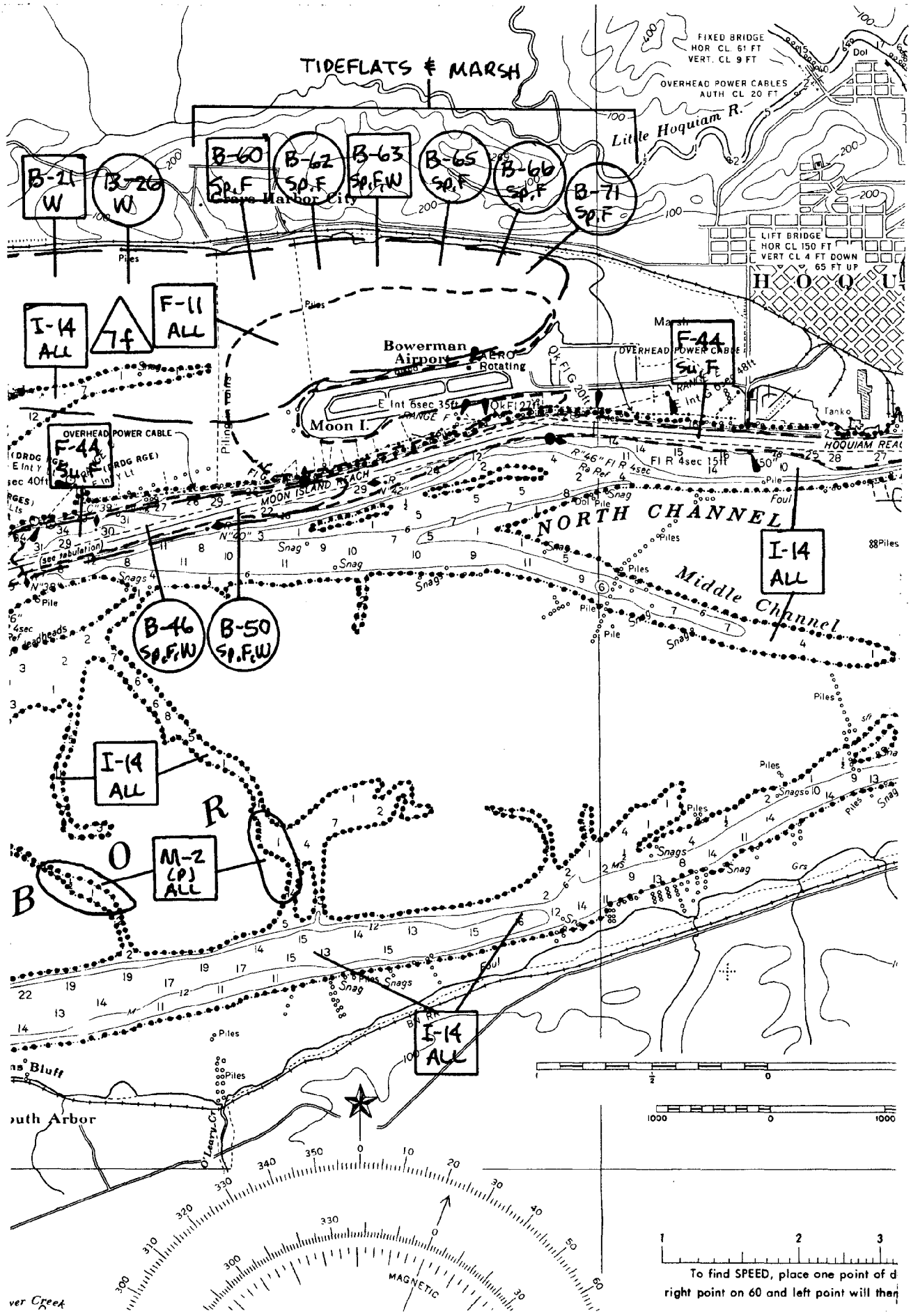
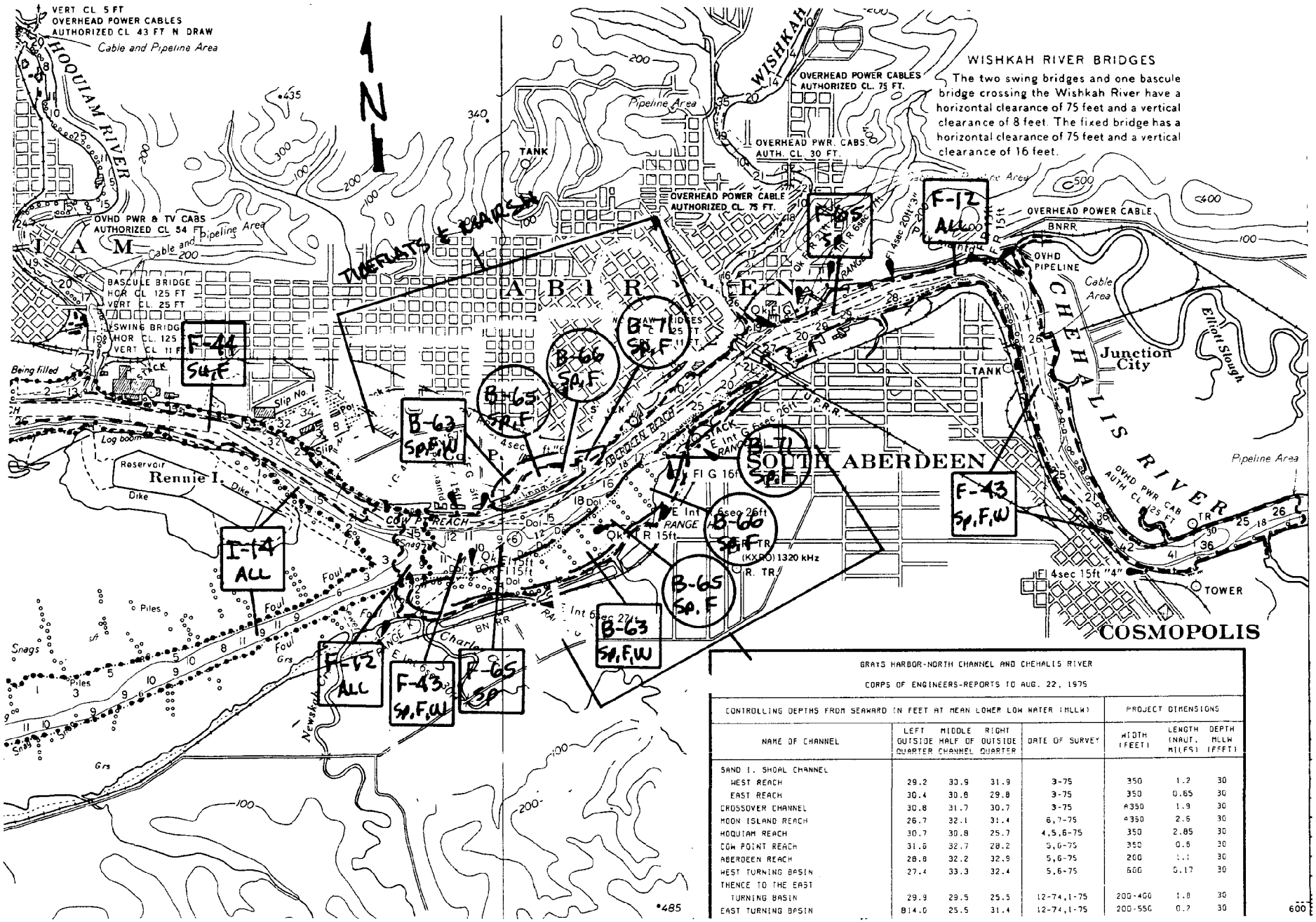




SHEET 7 GRAYS HARBOR

SHEET 8 GRAYS HARBOR



WISHKAH RIVER BRIDGES

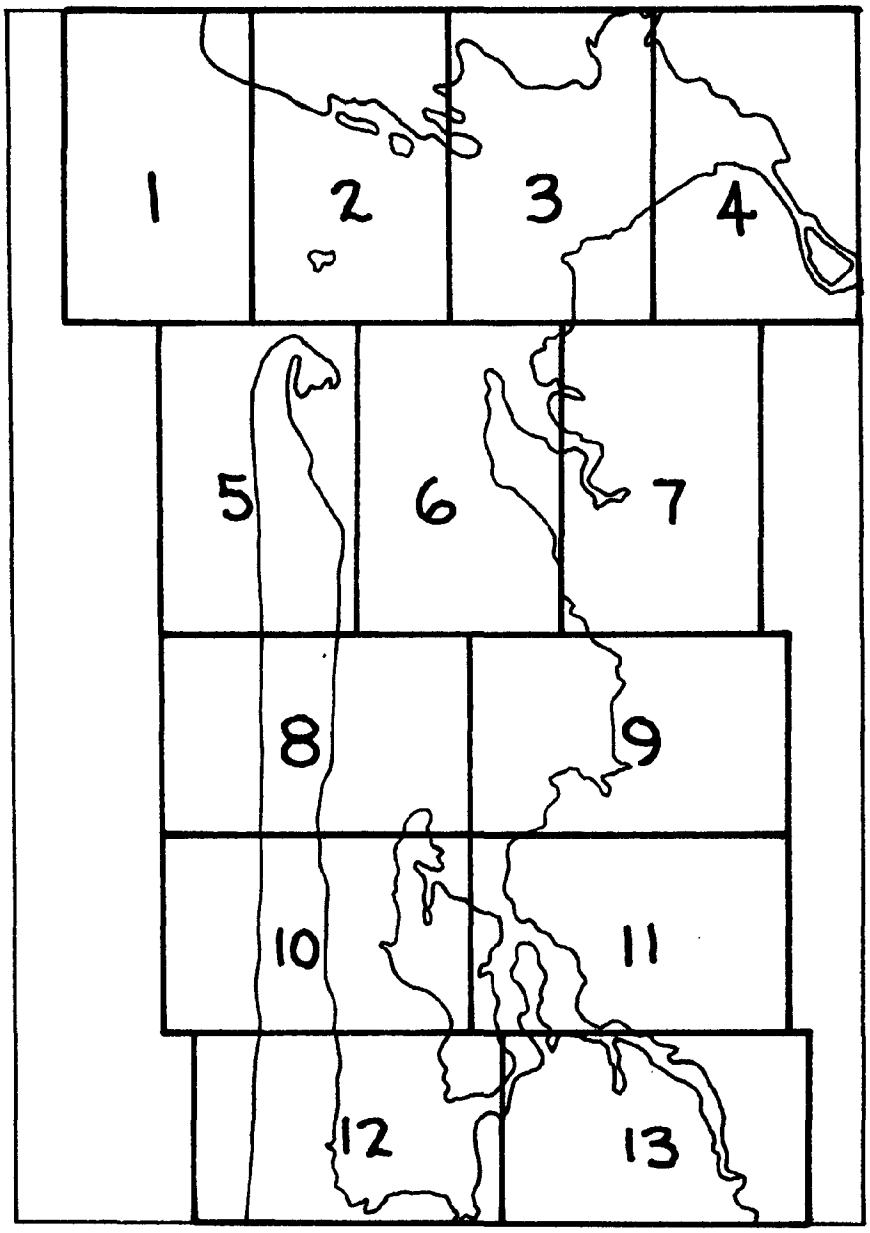
The two swing bridges and one bascule bridge crossing the Wishkah River have a horizontal clearance of 75 feet and a vertical clearance of 8 feet. The fixed bridge has a horizontal clearance of 75 feet and a vertical clearance of 16 feet.

GRAYS HARBOR-NORTH CHANNEL AND CHEHALIS RIVER

CORPS OF ENGINEERS-REPORTS TO AUG. 22, 1975

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SAND I. SHOAL CHANNEL							
WEST REACH	29.2	30.9	31.9	3-75	350	1.2	30
EAST REACH	30.4	30.8	29.8	3-75	350	0.65	30
CROSSOVER CHANNEL	30.8	31.7	30.7	3-75	A350	1.9	30
MOON ISLAND REACH	26.7	32.1	31.4	6,7-75	A350	2.6	30
HOQUIAM REACH	30.7	30.8	25.7	4,5,6-75	350	2.85	30
COW POINT REACH	31.6	32.7	28.2	5,6-75	350	0.6	30
ABERDEEN REACH	28.8	32.2	32.9	5,6-75	200	1.1	30
WEST TURNING BASIN	27.4	33.3	32.4	5,6-75	600	0.17	30
THENCE TO THE EAST TURNING BASIN	29.9	29.5	25.5	12-74,1-75	200-400	1.8	30
EAST TURNING BASIN	B14.0	25.5	31.4	12-74,1-75	200-550	0.7	30

SHEET INDEX



WILLAPA BAY (NOAA CHART 18504)

B — — — — M ———

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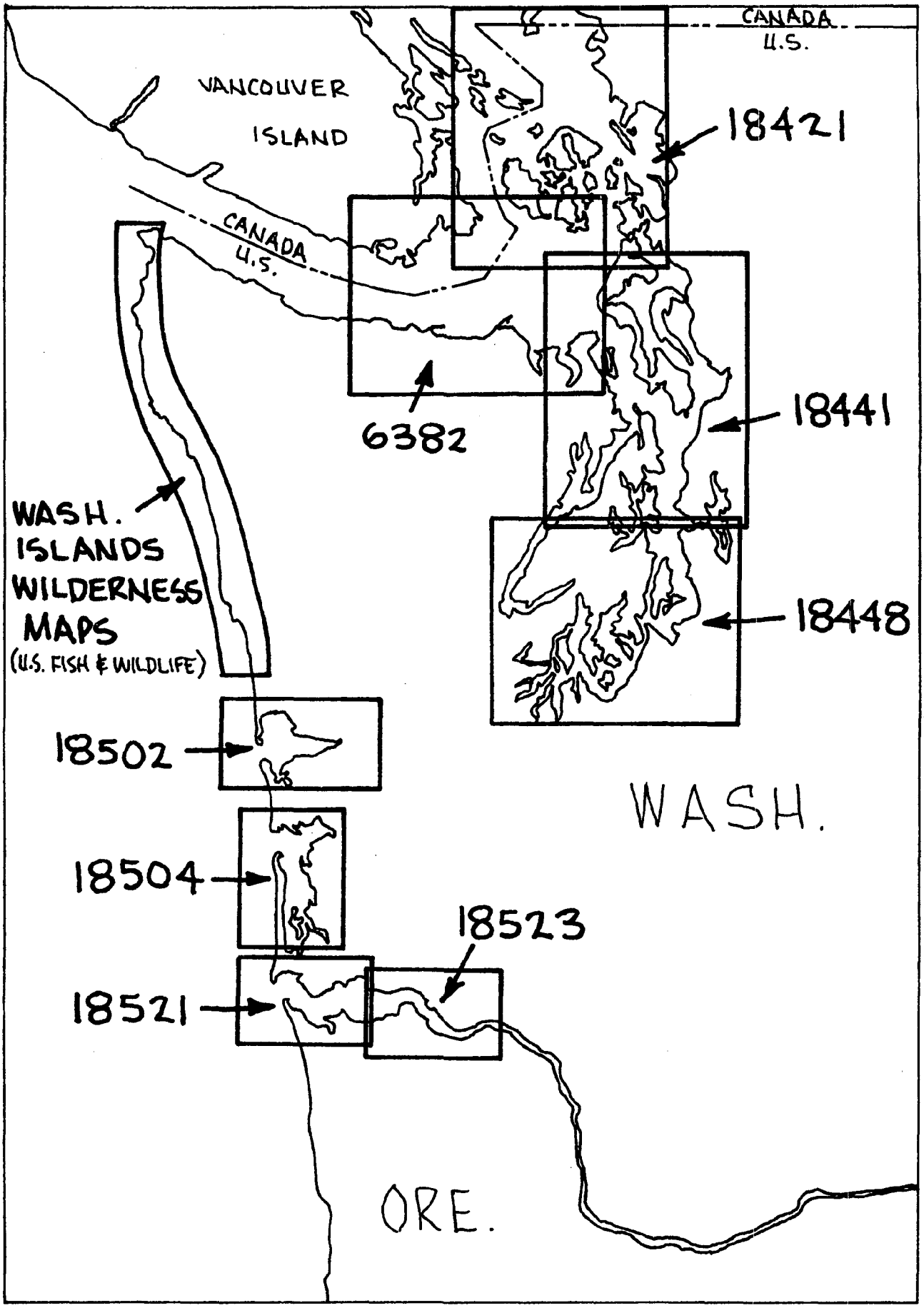
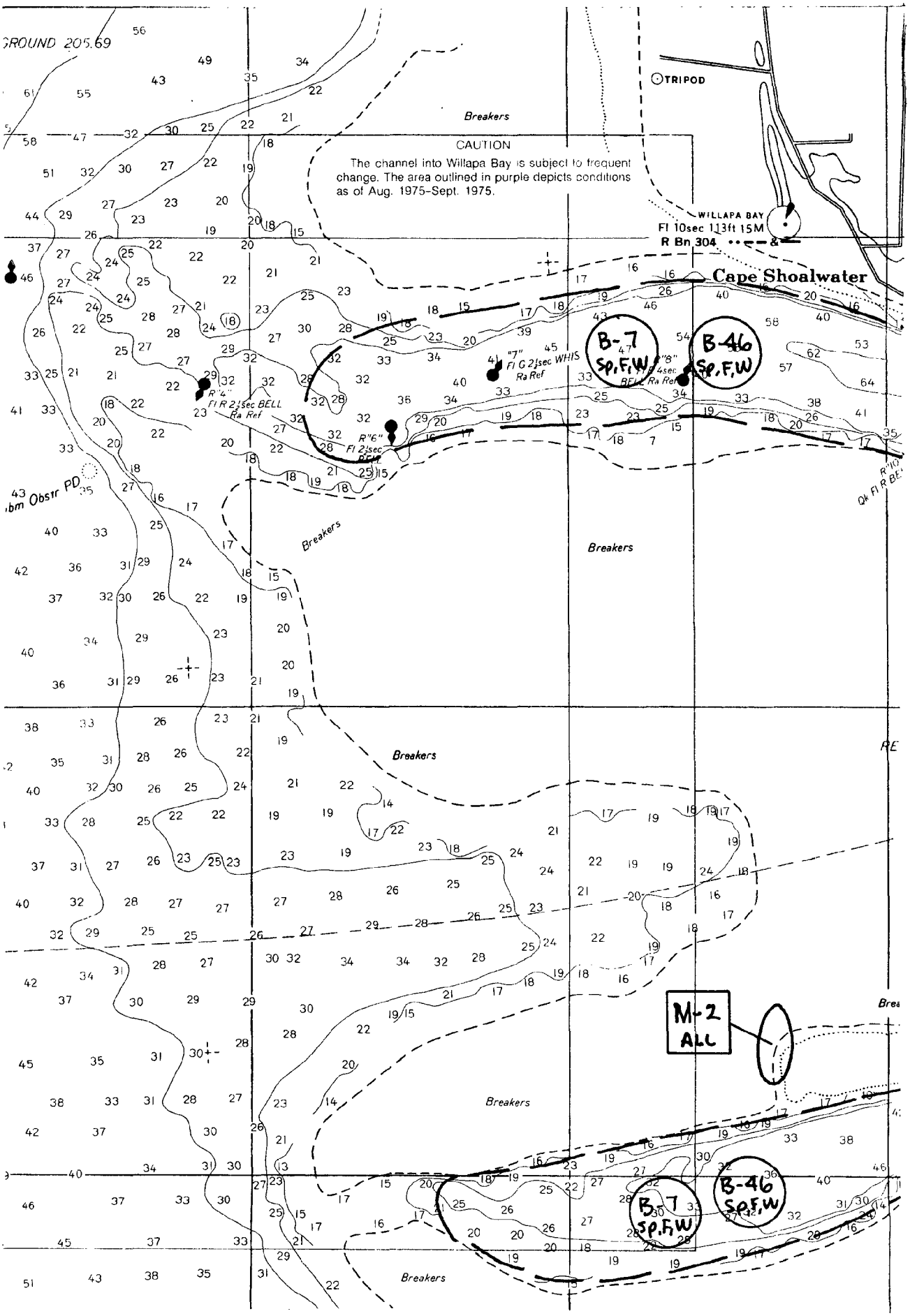
I-14, DUNGENESS CRAB; CRITICAL AREAS IDENTIFIED FROM EXTRAPOLATED GRAYS HARBOR DATA, SPECIFIC AREAS NOT KNOWN. ALL CHANNELS (>1 FATHOM) APPEAR TO BE MOST CRITICAL.



NOAA CHART INDEX



SHEET 1 WILLAPA BAY

NOTE A

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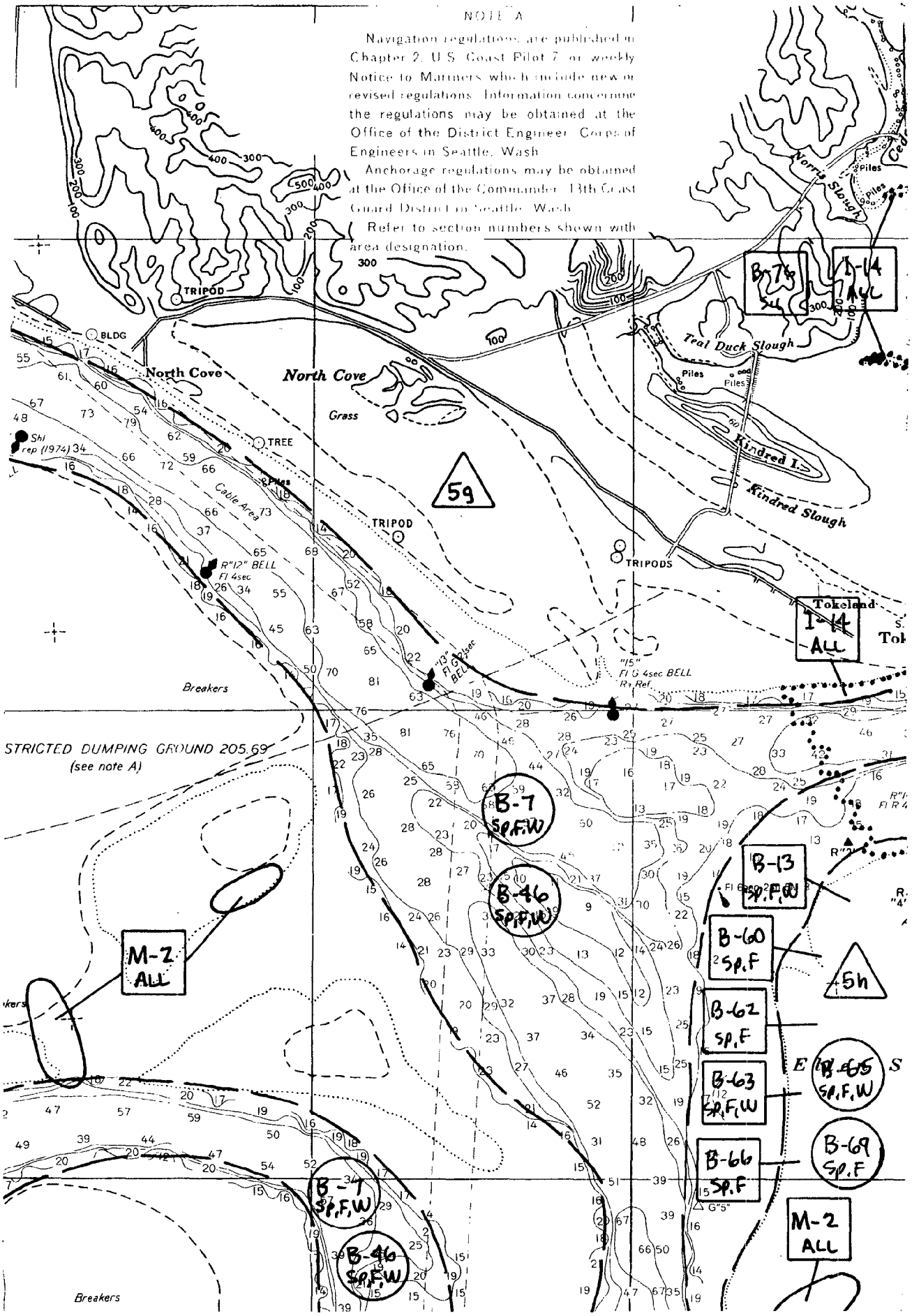
Anchorage regulations may be obtained at the Office of the Commander, 13th Coast Guard District in Seattle, Wash.

Refer to section numbers shown with area designation.



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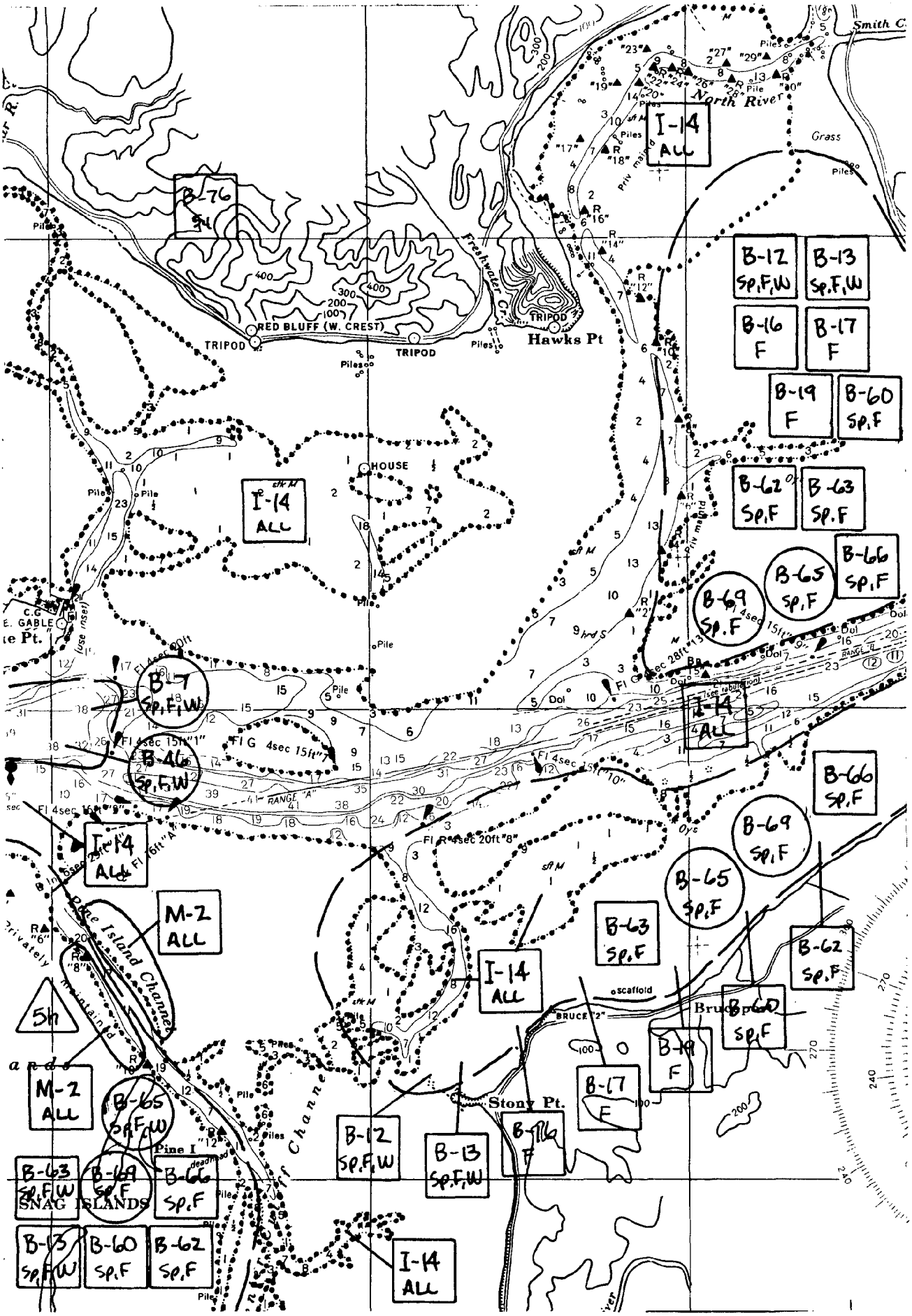

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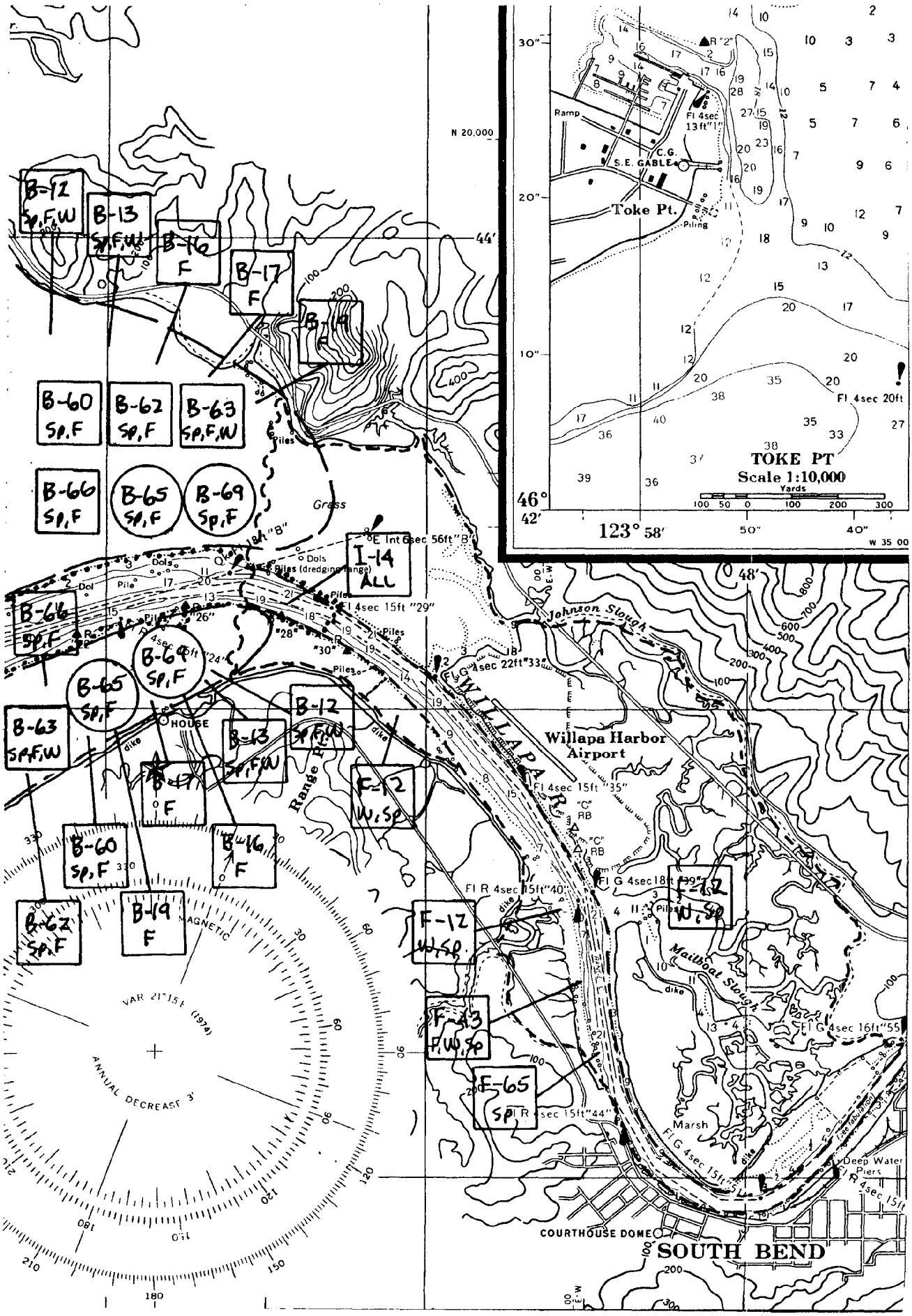
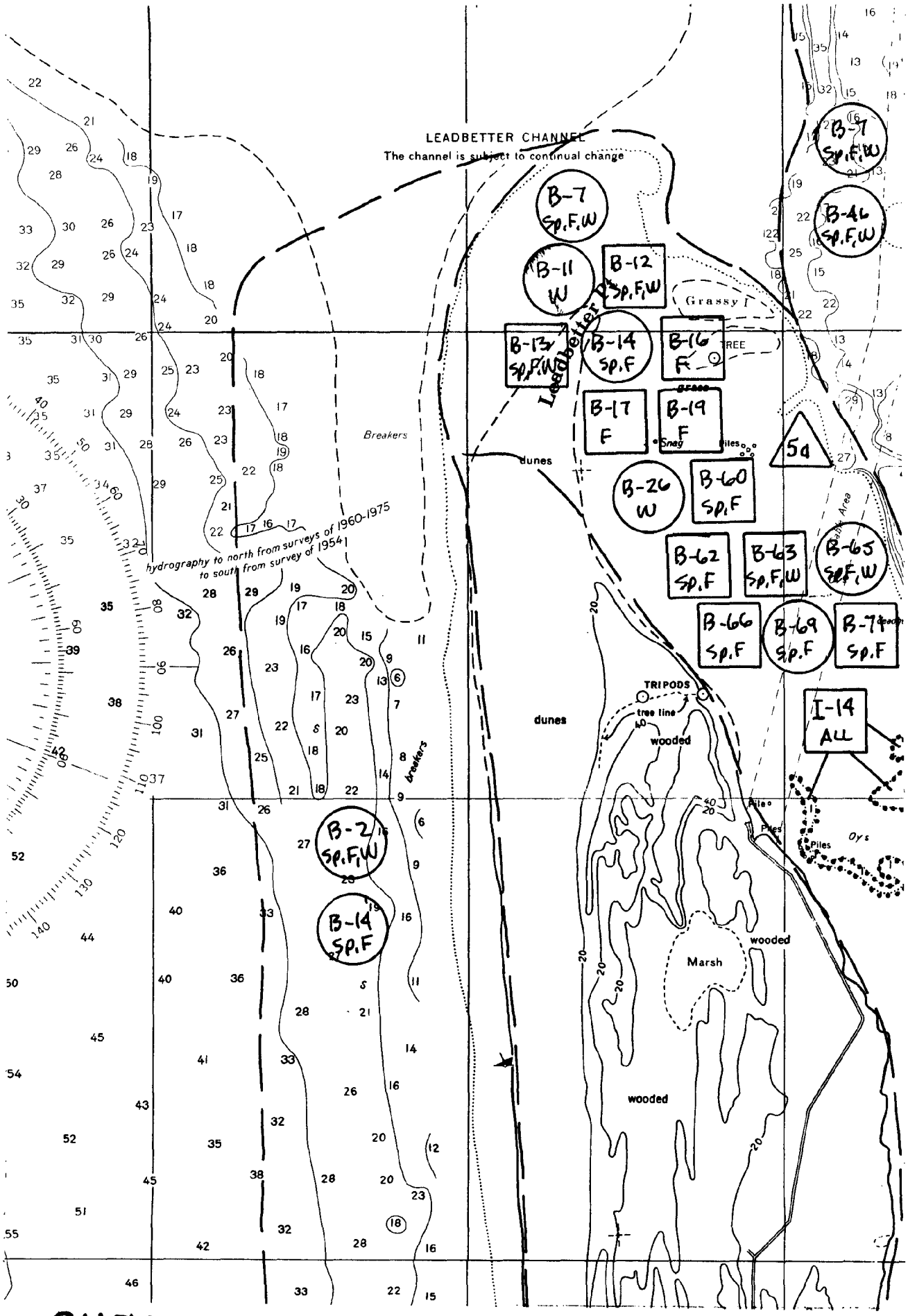


SHEET 4 WILLAPA BAY



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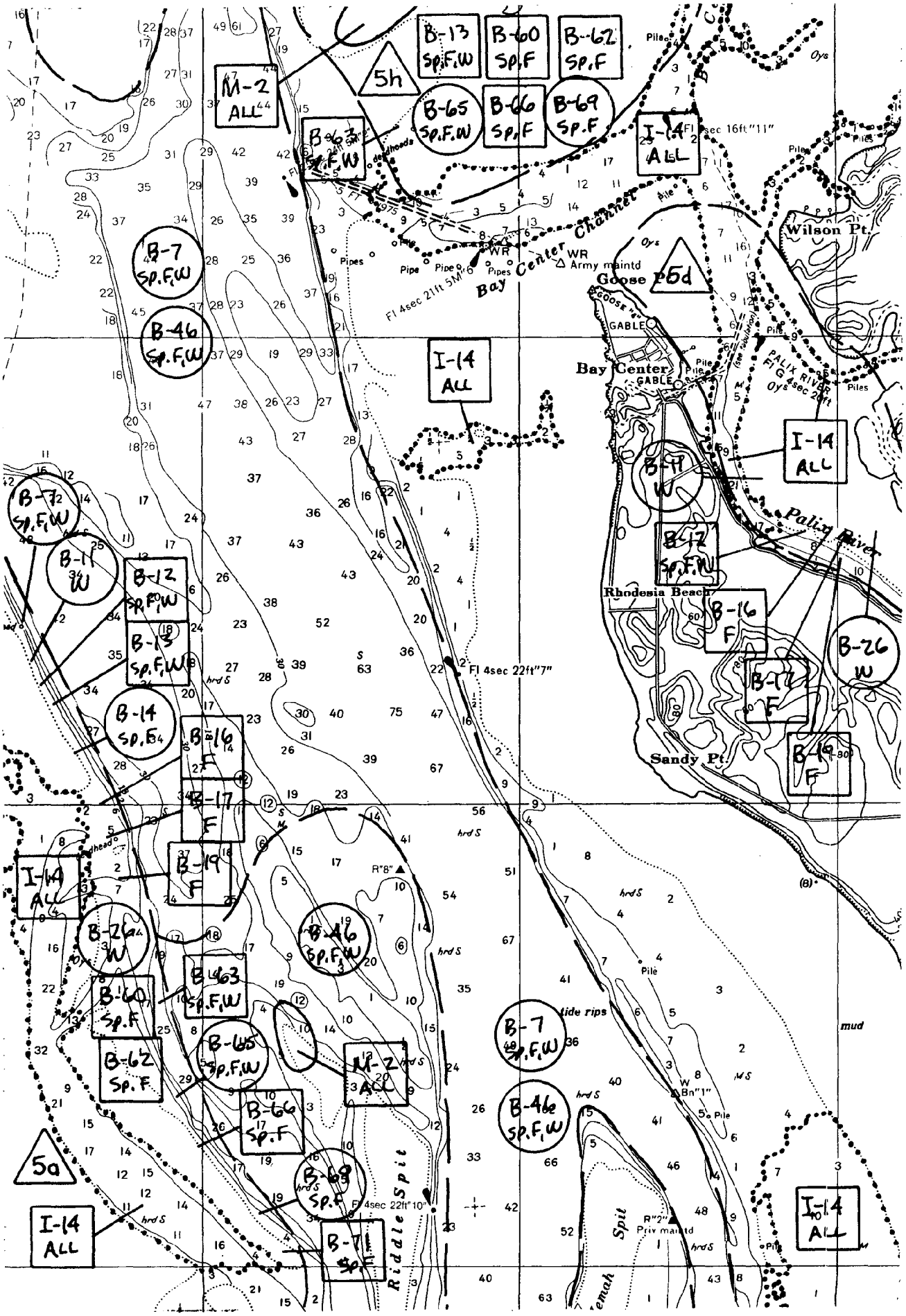

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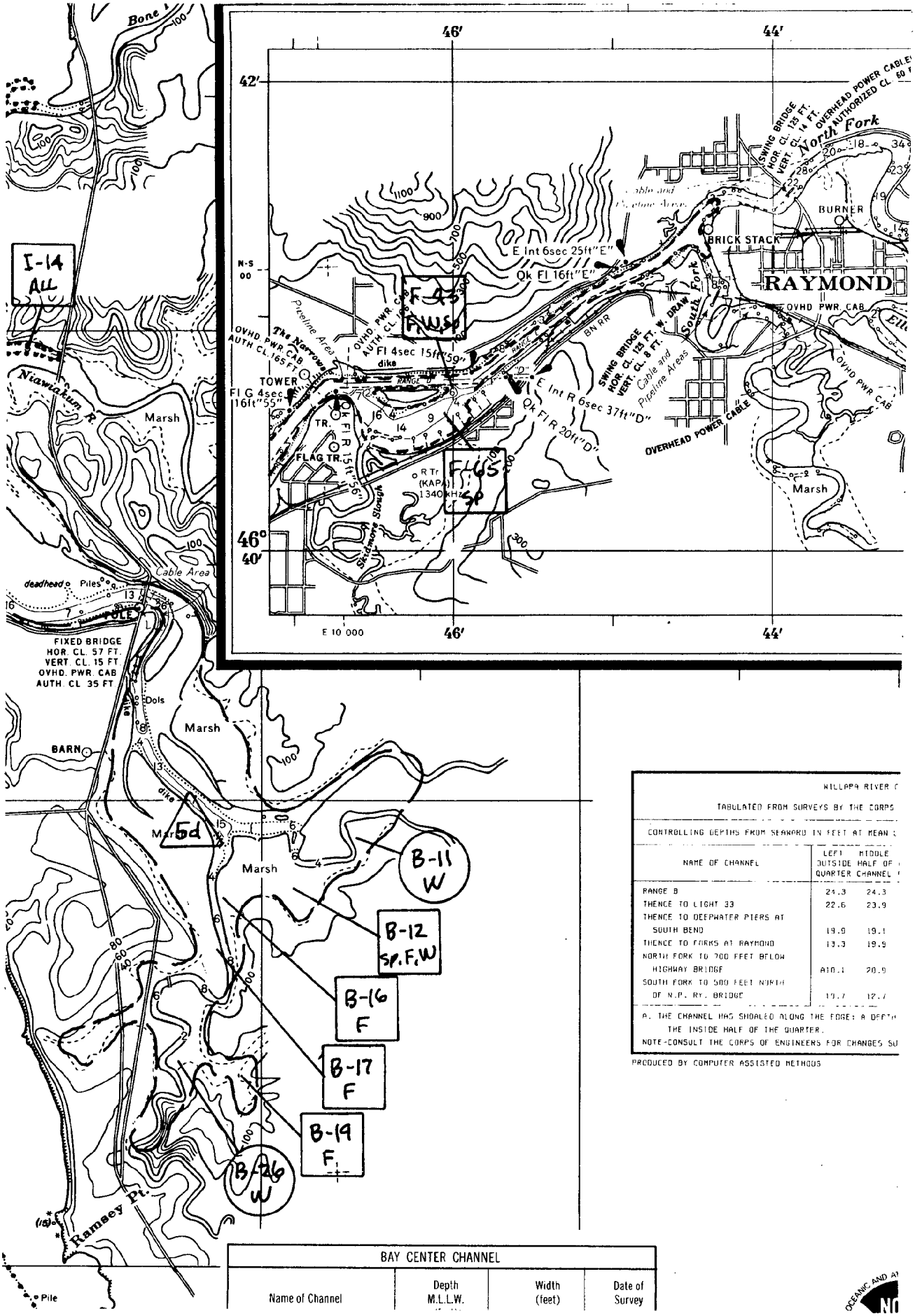


WILLAPA RIVER C

TABULATED FROM SURVEYS BY THE CORPS

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN L

NAME OF CHANNEL	LEFT OUTSIDE HALF OF QUARTER CHANNEL	MIDDLE HALF OF CHANNEL
RANGE B	24.3	24.3
THENCE TO LIGHT 33	22.6	23.9
THENCE TO DEEPWATER PIERS AT SOUTH BEND	19.9	19.1
THENCE TO FORKS AT RAYMOND	13.3	19.9
NORTH FORK TO 700 FEET BELOW HIGHWAY BRIDGE	A10.1	20.9
SOUTH FORK TO 500 FEET NORTH OF N.P. RY. BRIDGE	19.7	12.7

A. THE CHANNEL HAS SHOALED ALONG THE EDGE; A DEPTH THE INSIDE HALF OF THE QUARTER.

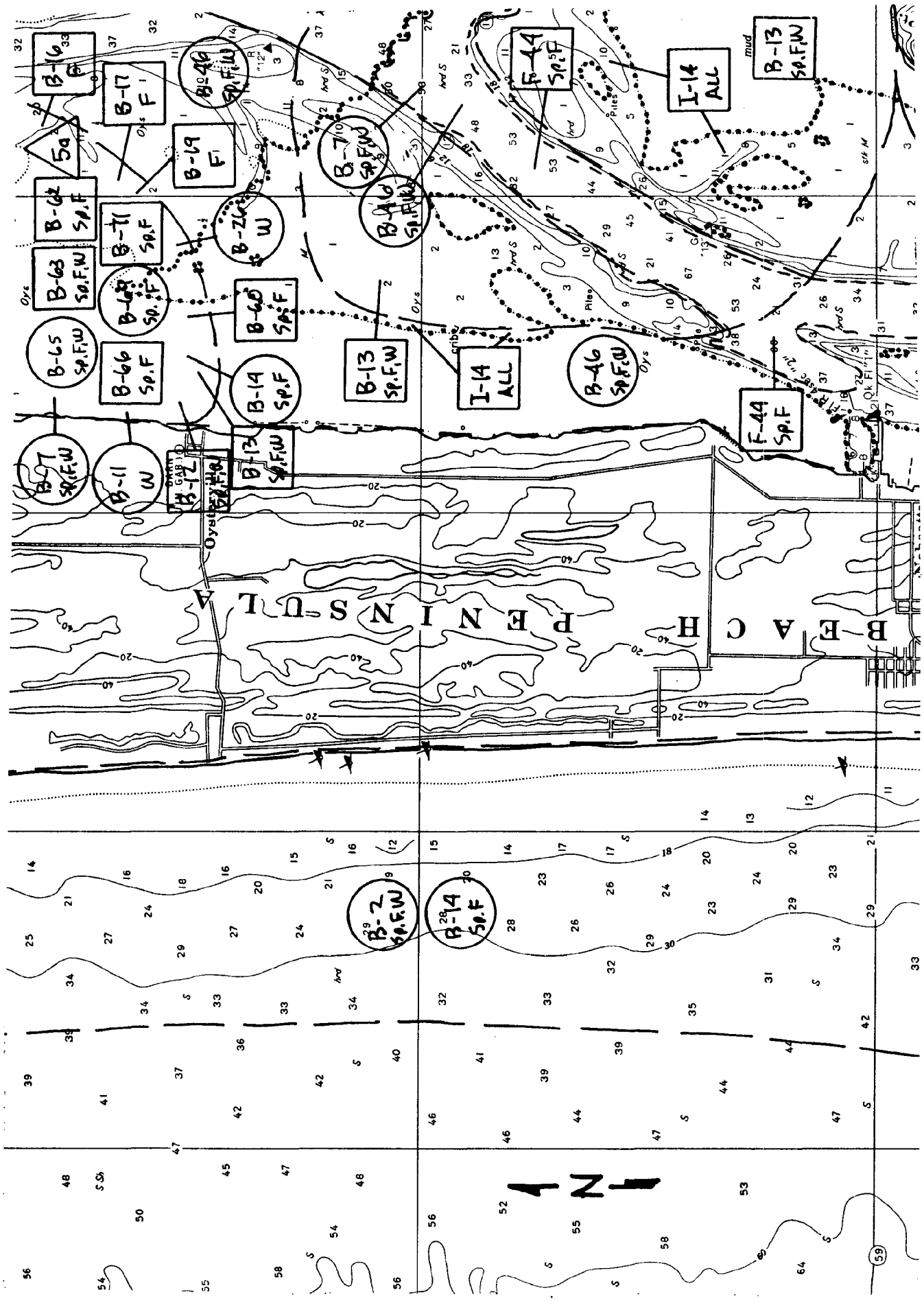
NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SU

PRODUCED BY COMPUTER ASSISTED METHODS

BAY CENTER CHANNEL			
Name of Channel	Depth M.L.L.W.	Width (feet)	Date of Survey

OCEANIC AND A

SHEET 7 WILLAPA BAY



SHEET 8 WILLAPA BAY

SHEET 9 WILLAPA BAY

	(feet)		
Entrance Channel (46°38'05"N., 123°56'35"W.)	6½	40	7-74
Turning Basin	5	40-120	7-74

UNITED

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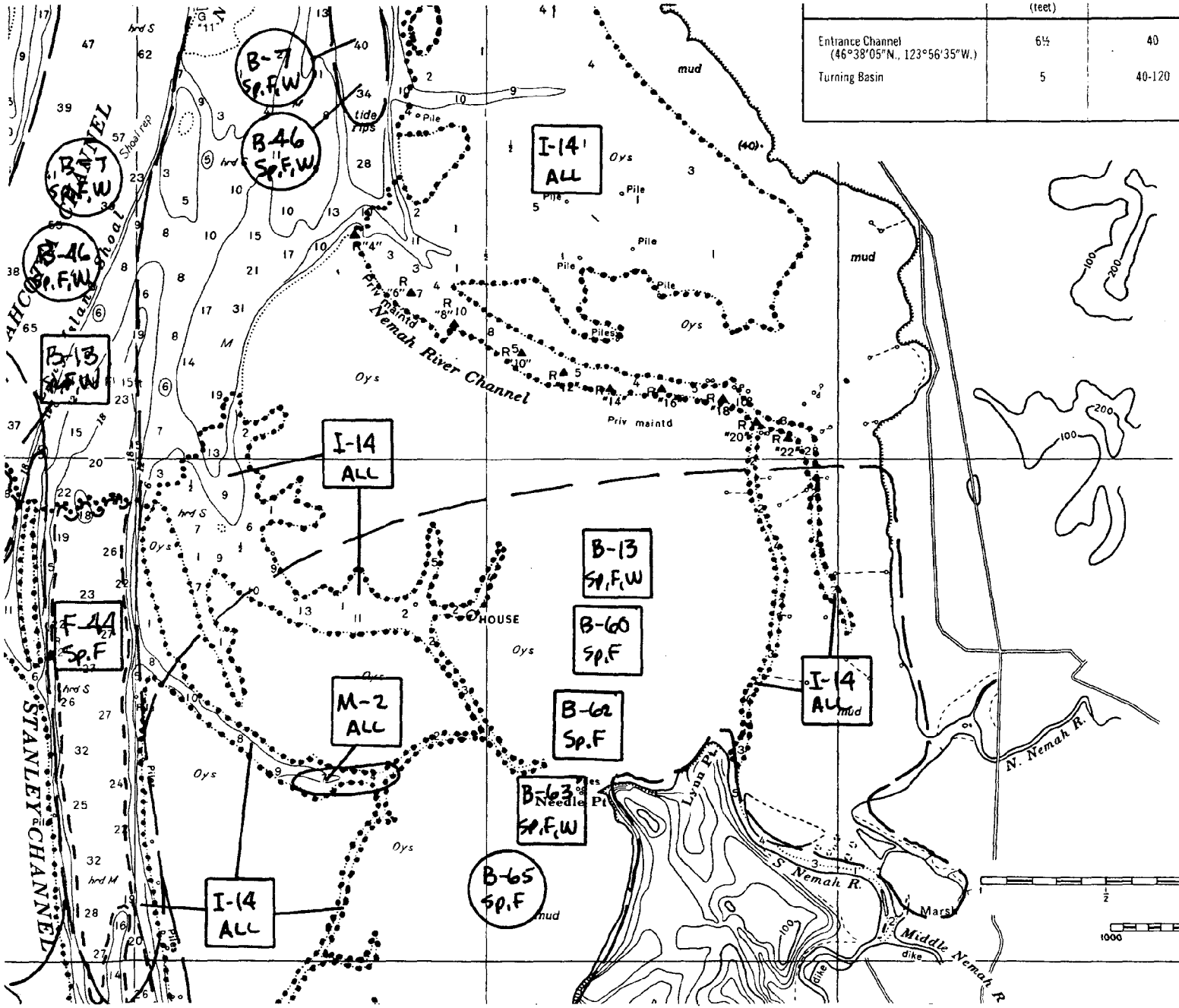
Place	
Name	(Lat/Lo
Willapa Bay Entrance	(46°43'N/1
Nahcotta	(46°30'N/1
Toke Point	(46°42'N/1
Raymond	(46°41'N/1

(176)

STORM WARNING

The National Weather Service displa
at the following approximate locatio
Toke Pt (46°42 4'-123°58 0')
South Bend (46°40 4'-123°46 7')



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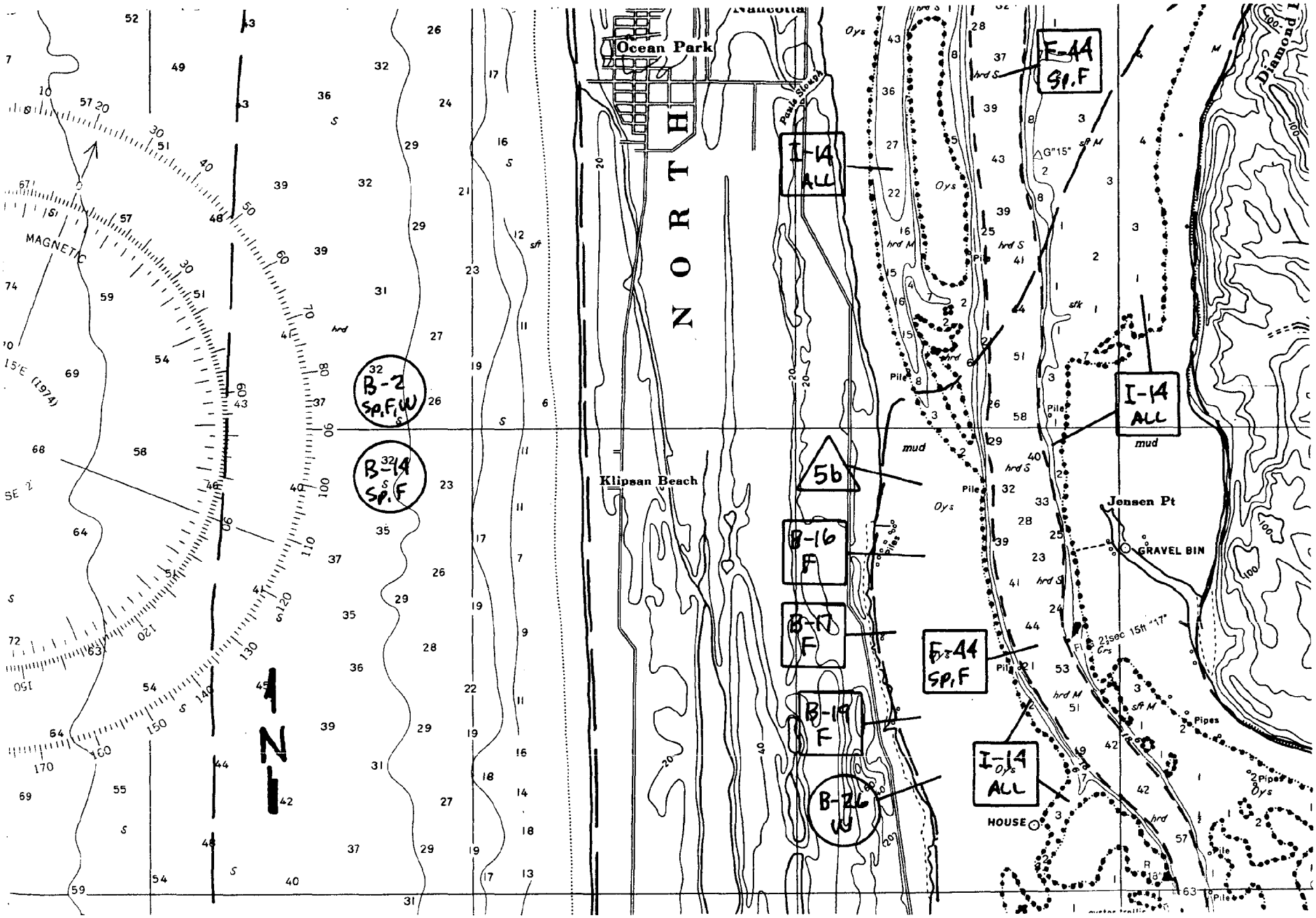

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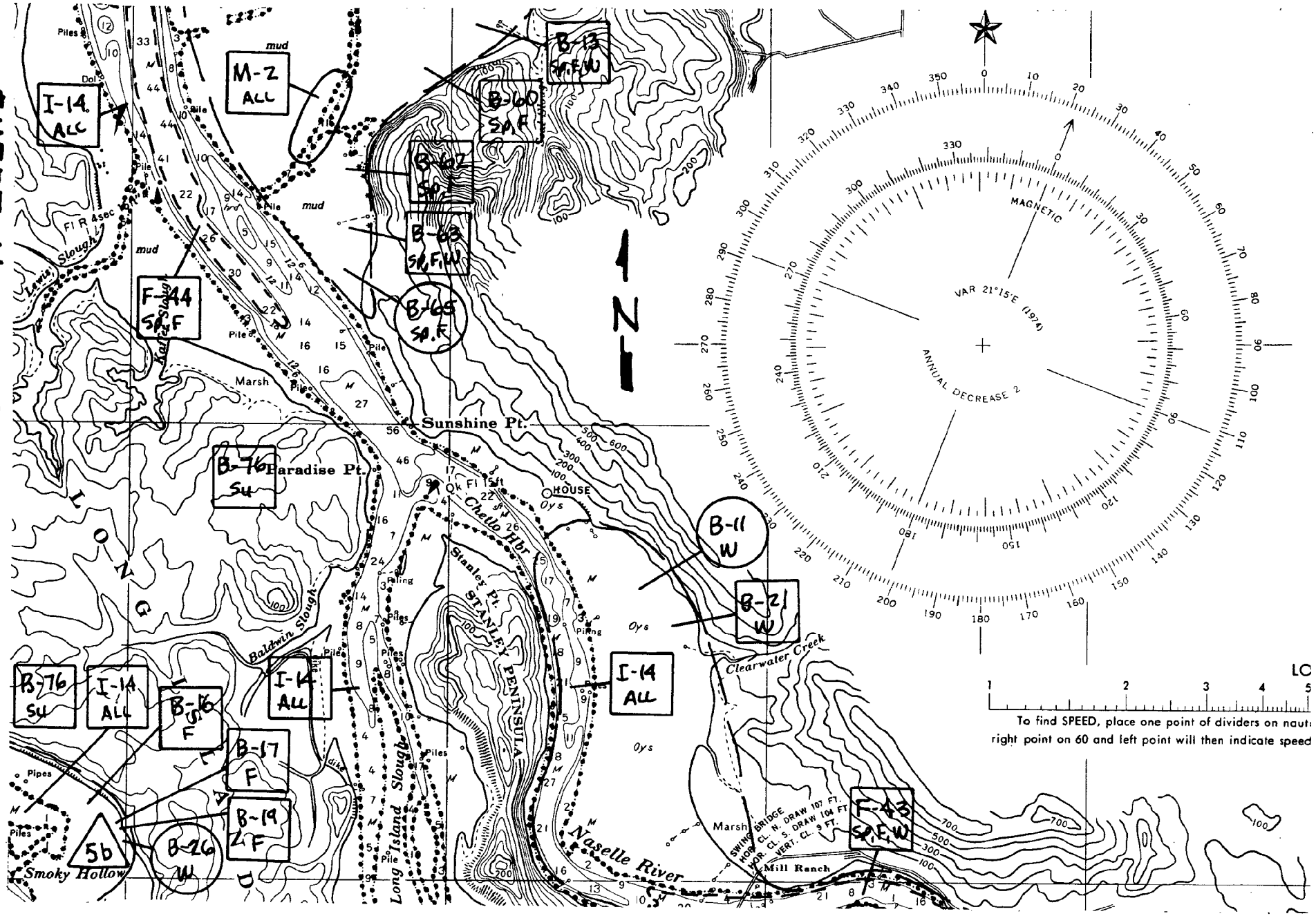

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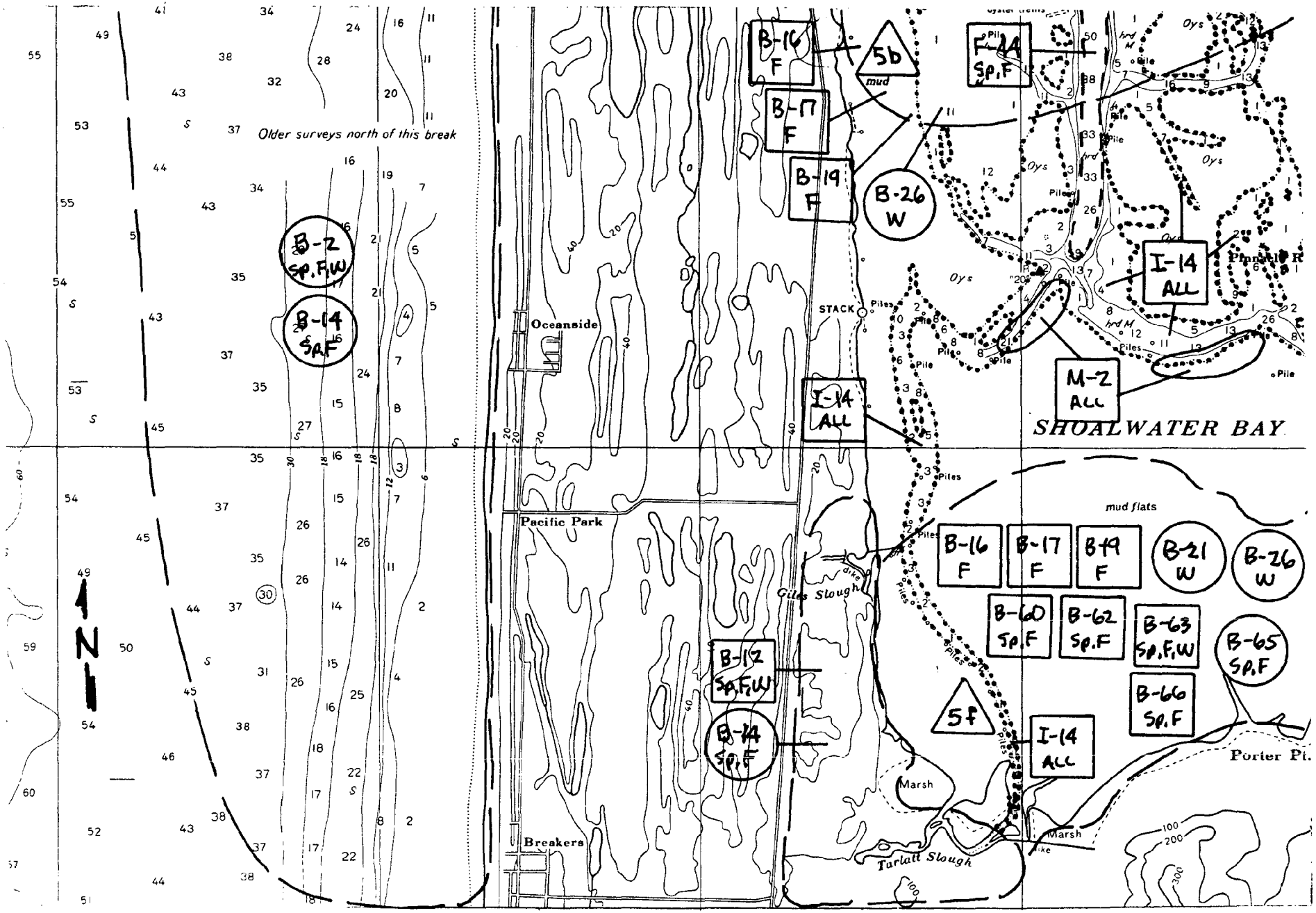
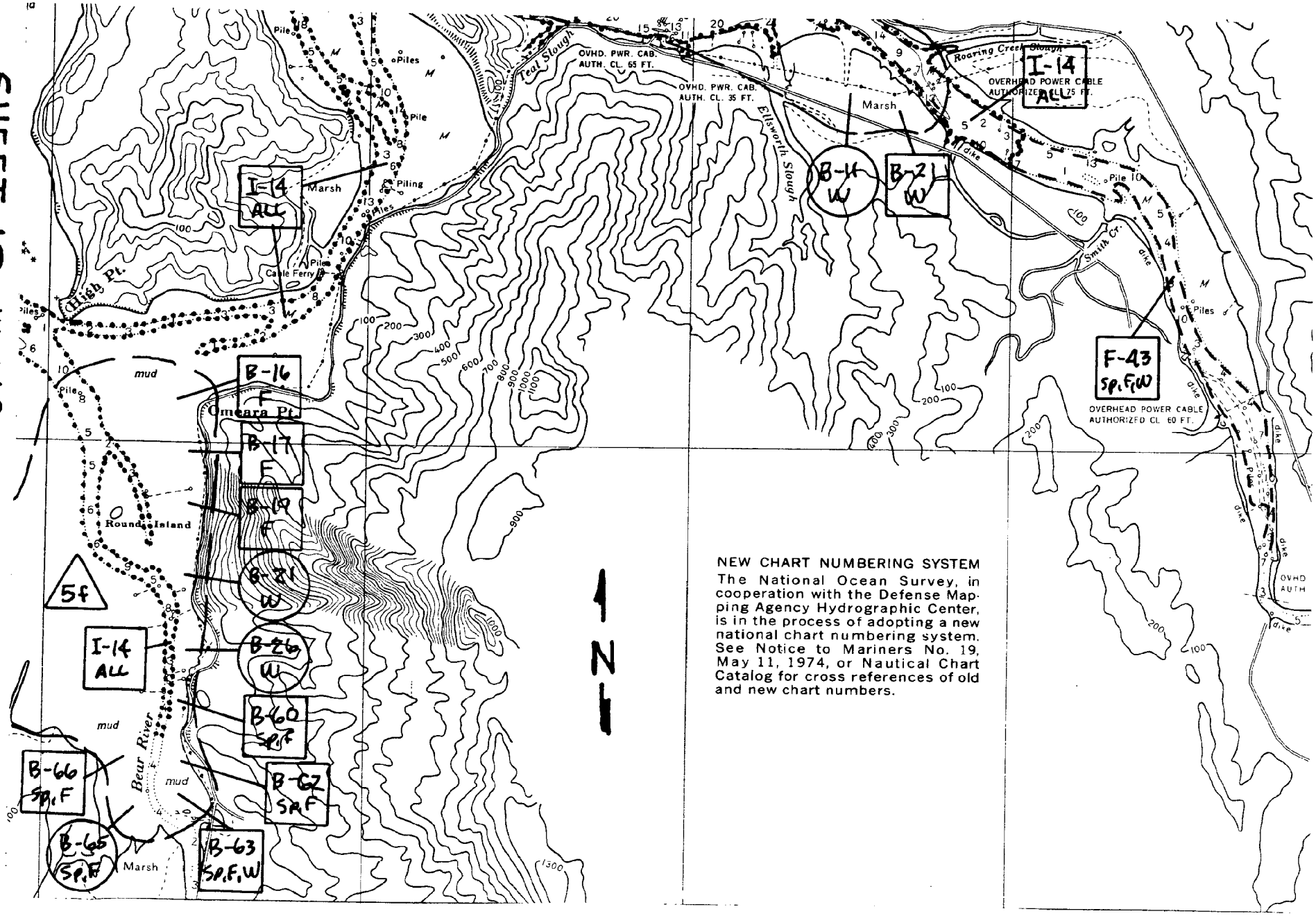


SHEET 13 WILLAPA BAY



NEW CHART NUMBERING SYSTEM

The National Ocean Survey, in cooperation with the Defense Mapping Agency Hydrographic Center, is in the process of adopting a new national chart numbering system. See Notice to Mariners No. 19, May 11, 1974, or Nautical Chart Catalog for cross references of old and new chart numbers.

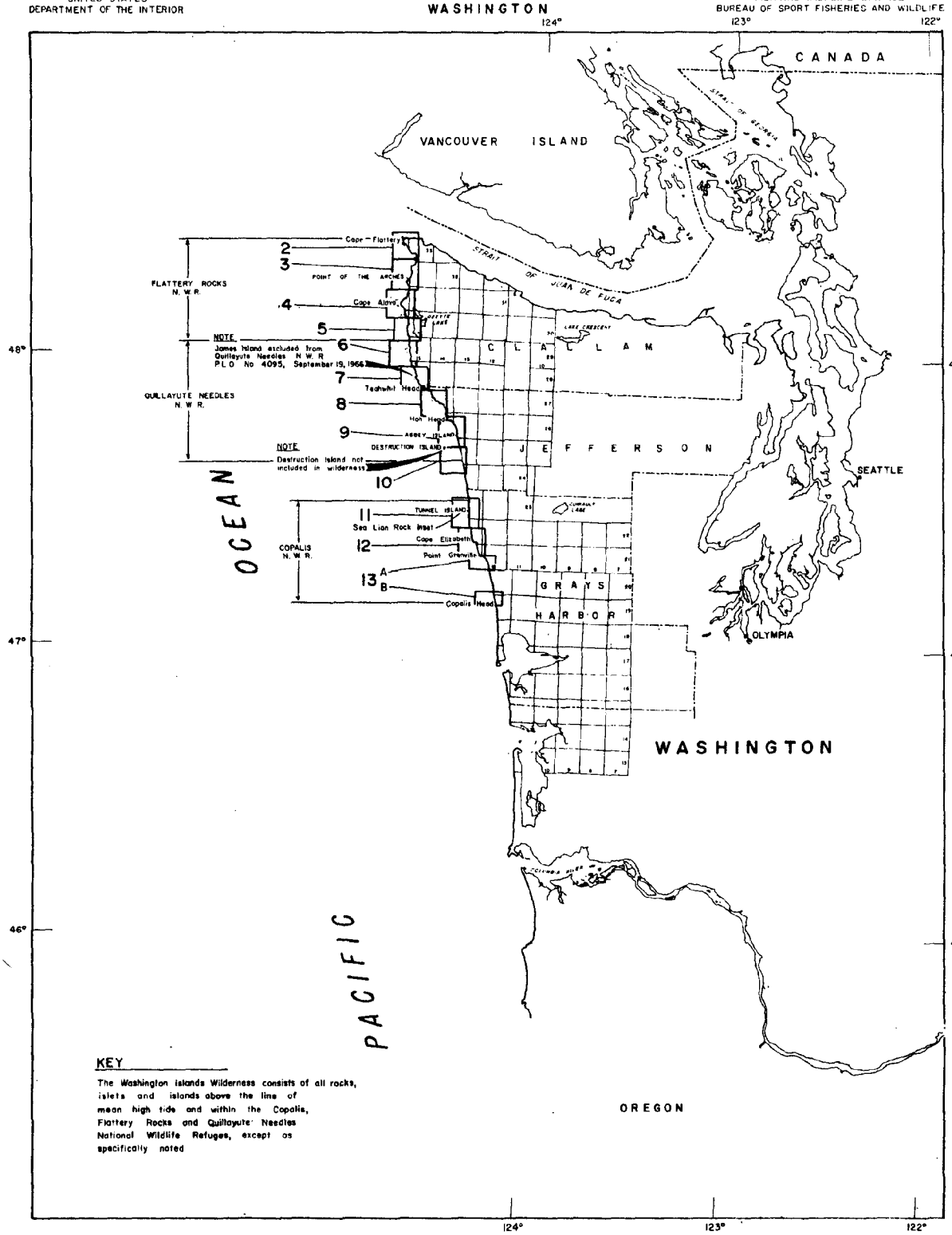
BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES

SHEET 1, OF 13

UNITED STATES
DEPARTMENT OF THE INTERIOR

WASHINGTON

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



KEY

The Washington Islands Wilderness consists of all rocks, islets and islands above the line of mean high tide and within the Copalis, Flattery Rocks and Quillayute Needles National Wildlife Refuges, except as specifically noted

COMPILED IN THE DIVISION OF ENGINEERING
FROM SURVEYS BY BLM AND USGS

WILLAMETTE MERIDIAN

Scale 10 3 0 10 20 40 MILES

TOWNSHIP DIAGRAM

MEAN DECLINATION

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

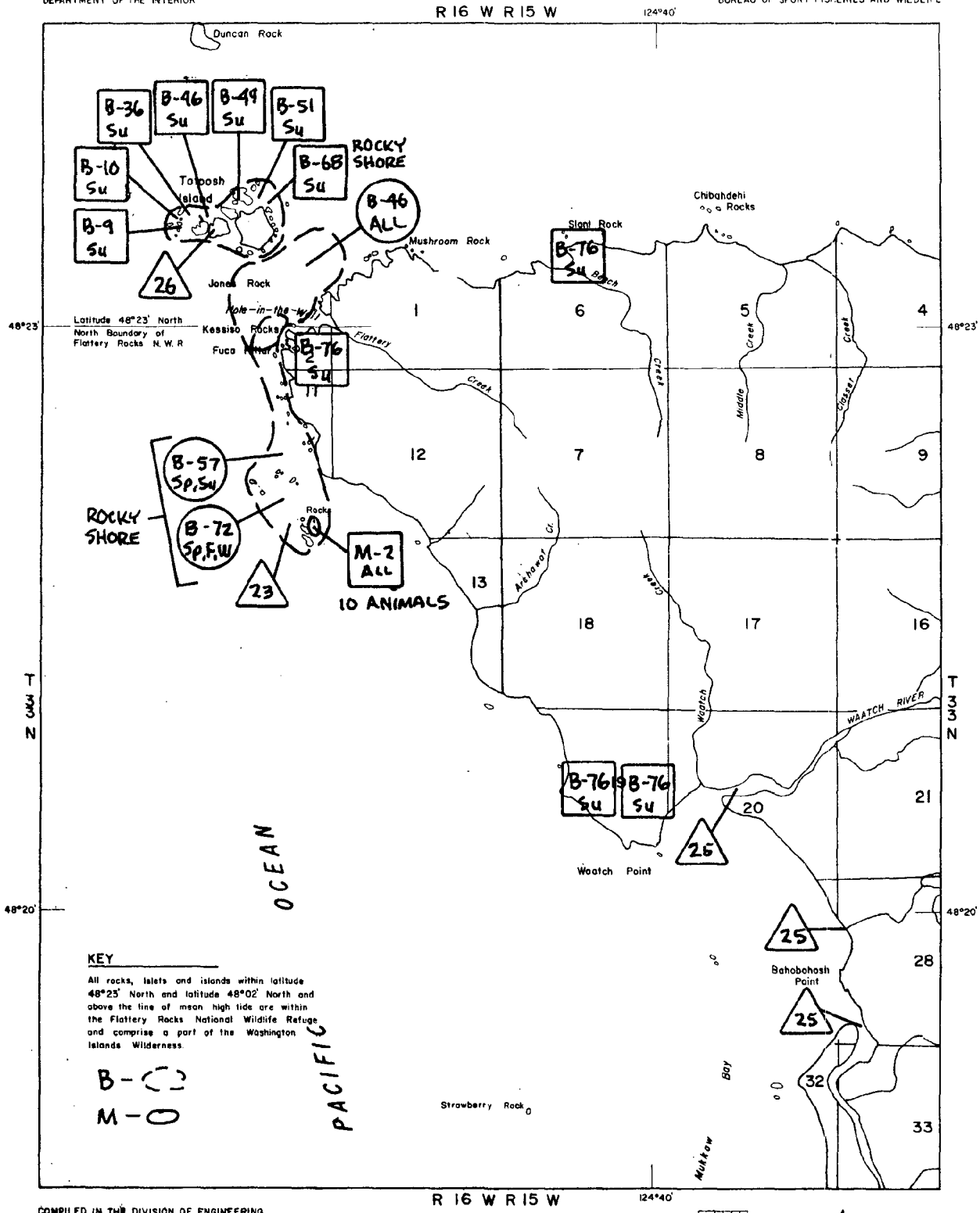
IR WASH

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE

2
SHEET 2, OF 13



COMPILED IN THE DIVISION OF ENGINEERING
FROM SURVEYS BY U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC N.
MEAN DECLINATION

IR WASH 35

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM COUNTY, WASHINGTON

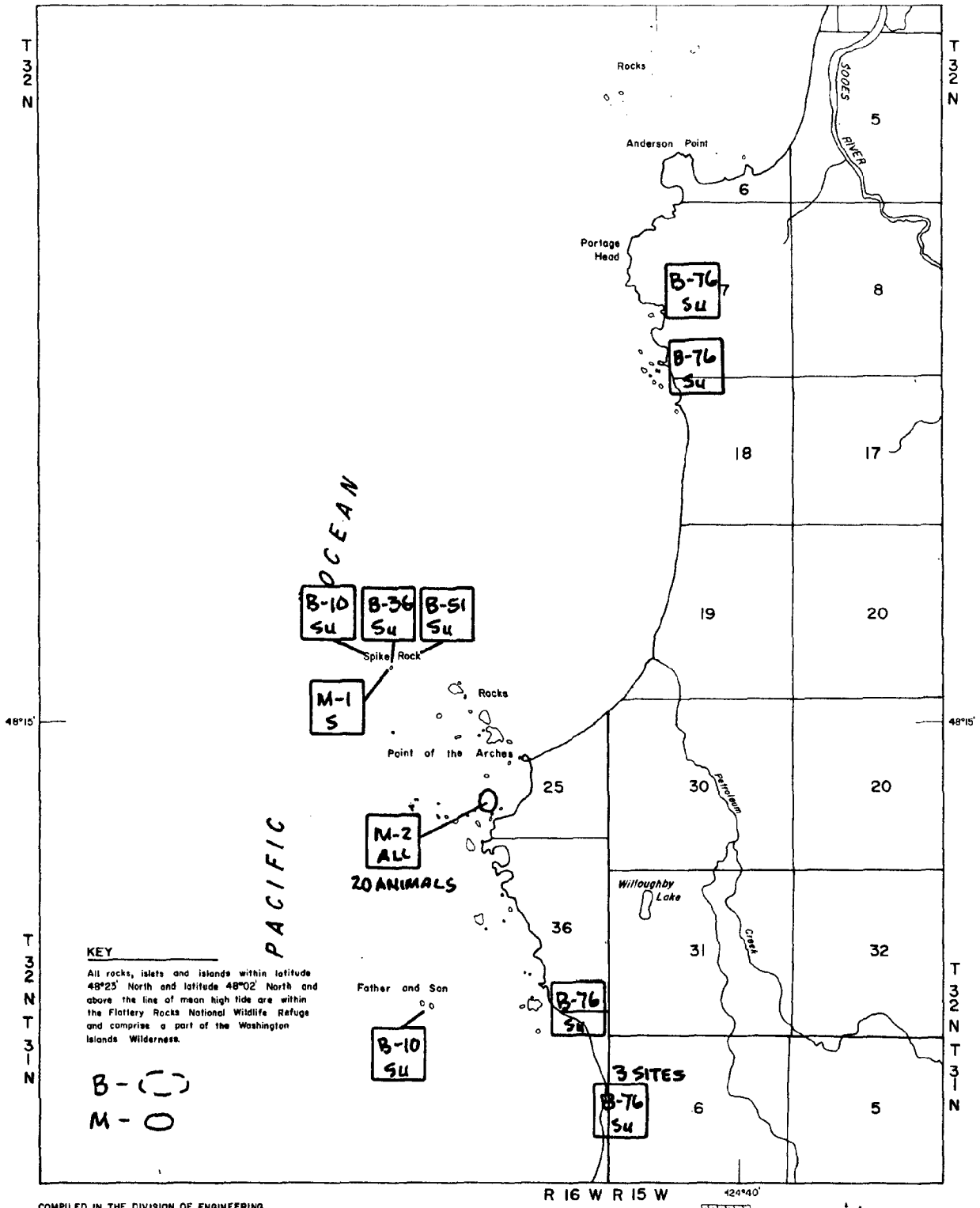
UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE

3

SHEET 3, OF 13

R 16 W R 15 W



COMPILED IN THE DIVISION OF ENGINEERING
FROM SURVEYS BY U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC N
MEAN DECLINATION

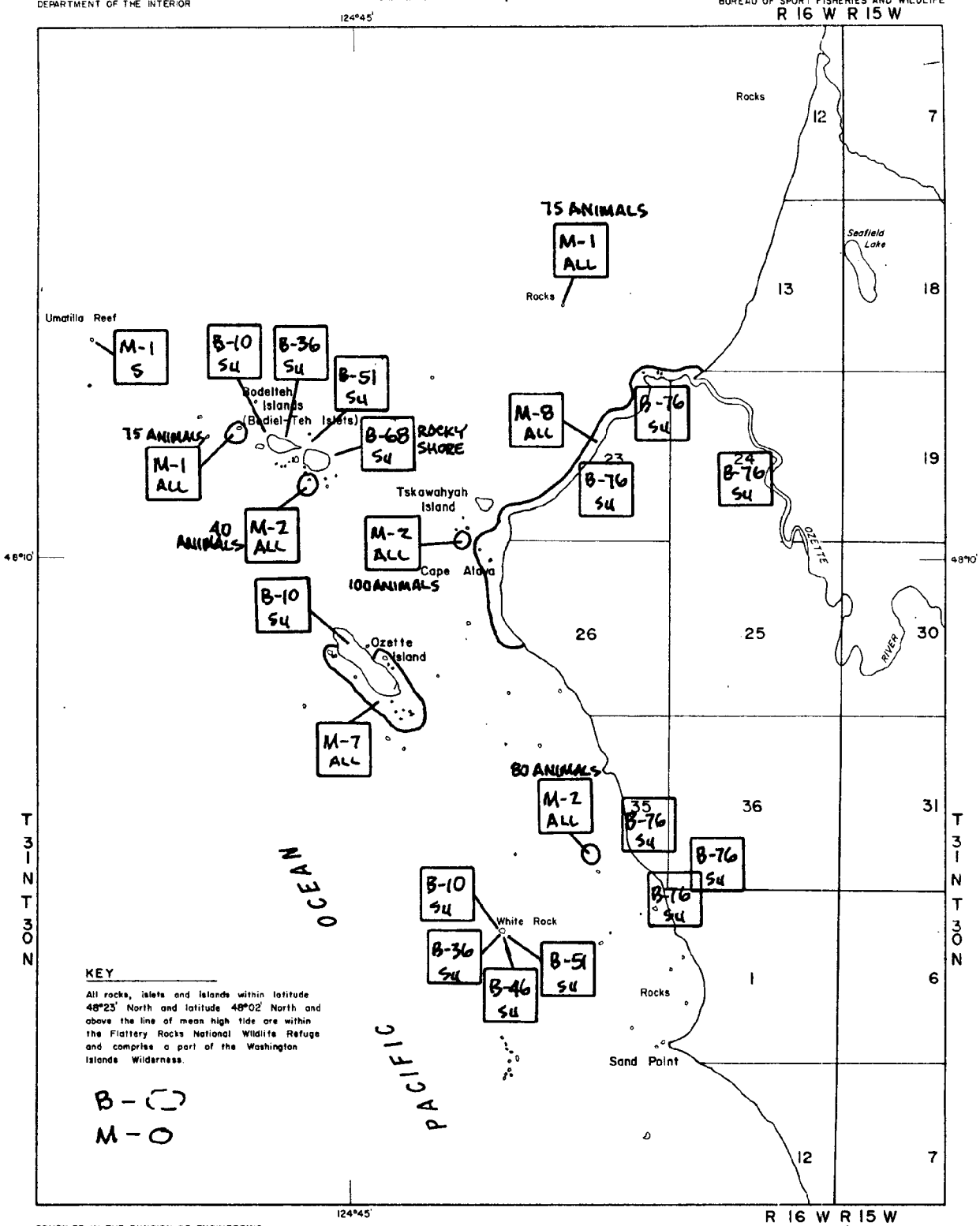
IR WASH 35

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE

4
SHEET 4, OF 13



KEY

All rocks, islets and islands within latitude 48°23' North and latitude 48°02' North and above the line of mean high tide are within the Flattery Rocks National Wildlife Refuge and comprise a part of the Washington Islands Wilderness.

B - ( )
M - O

COMPILED IN THE DIVISION OF ENGINEERING
FROM SURVEYS BY U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

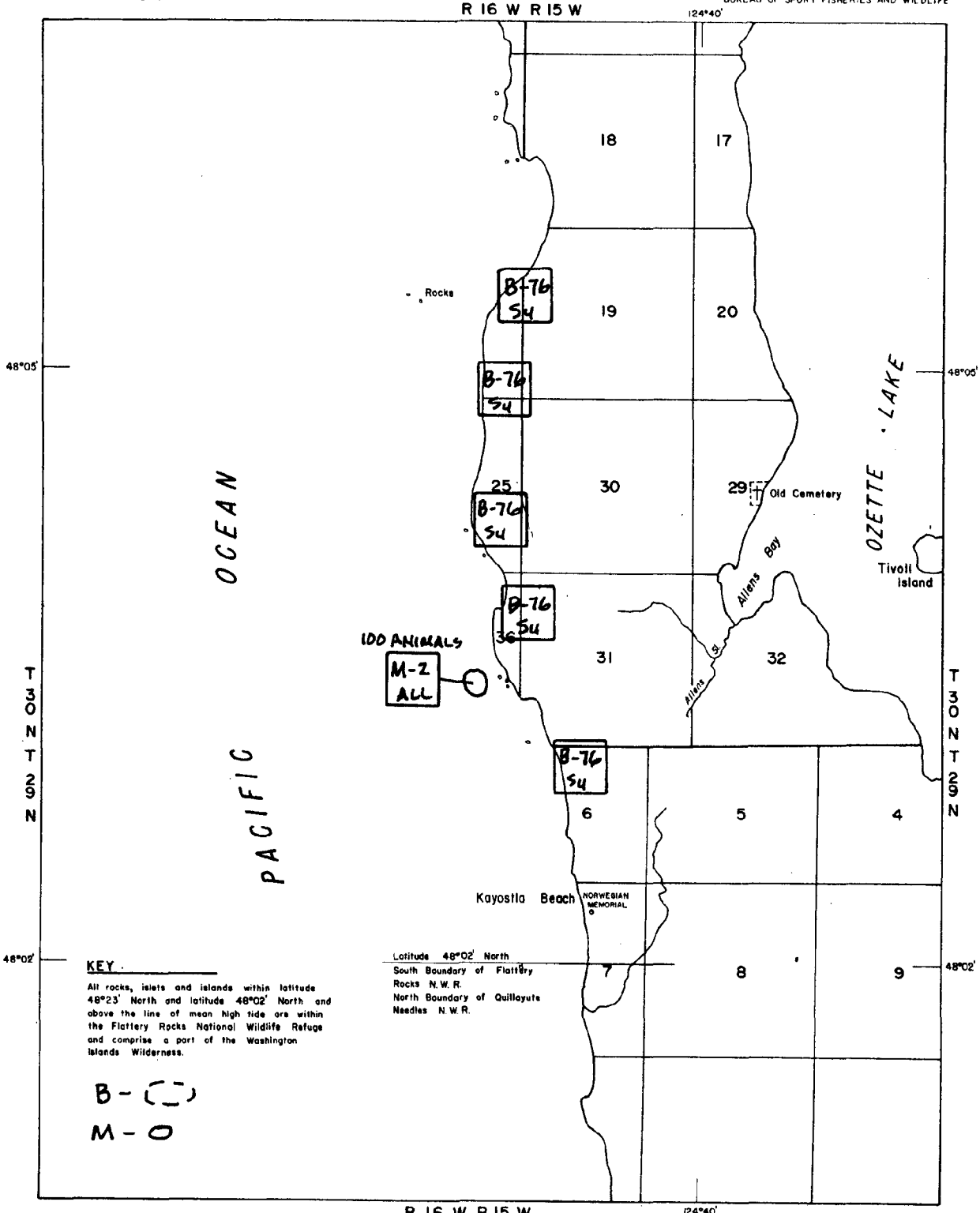
TRUE NORTH
MAGNETIC N
MEAN DECLINATION

IR WASH 35

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



COMPILED IN THE DIVISION OF ENGINEERING
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PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC
MEAN DECLINATION

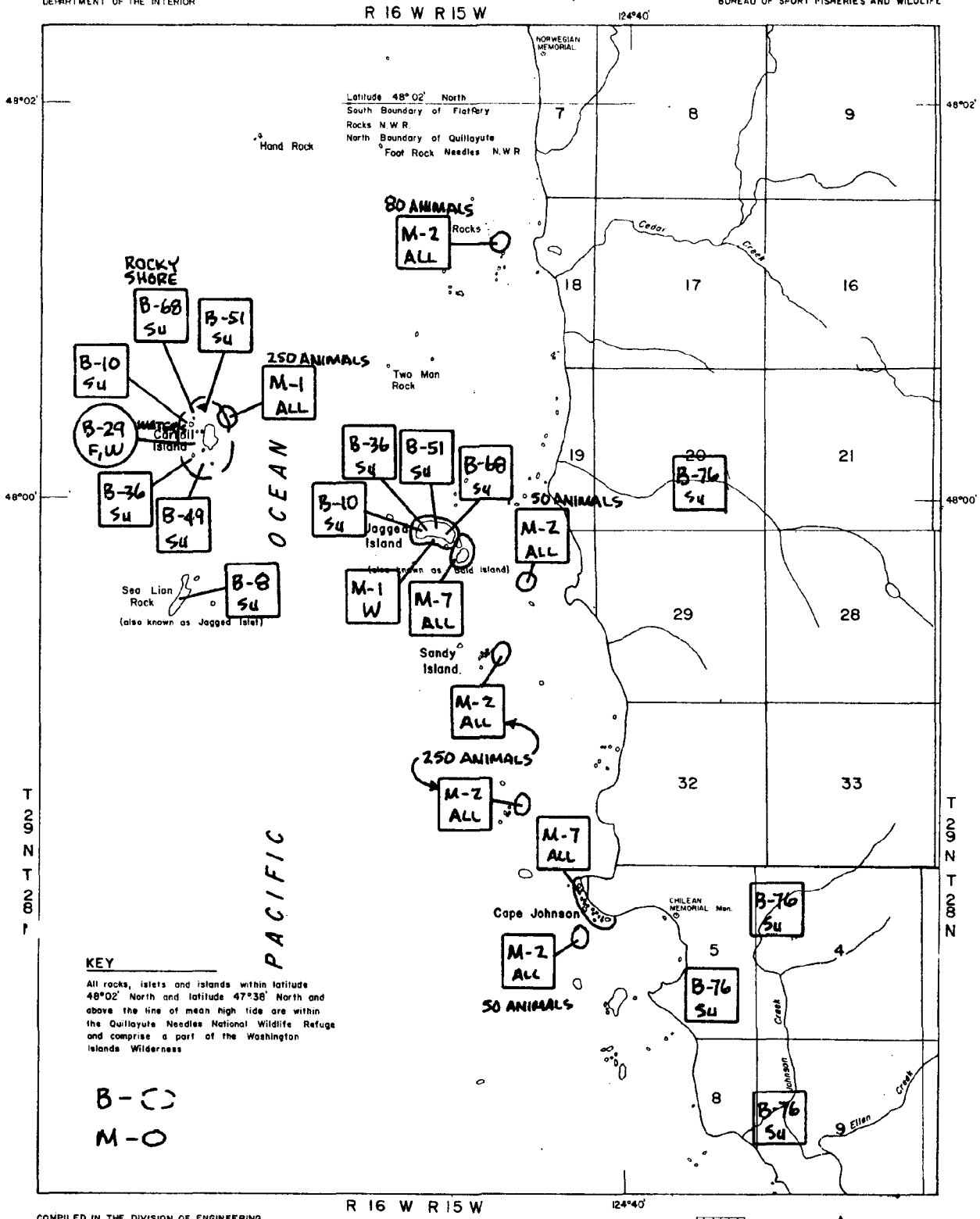
IR WASH 35

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM AND JEFFERSON COUNTIES, WASHINGTON

6
SHEET 6, OF 13

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



KEY

All rocks, islets and islands within latitude 48°02' North and latitude 47°38' North and above the line of mean high tide are within the Quillayute Needles National Wildlife Refuge and comprise a part of the Washington Islands Wilderness

B - ( )
M - O

COMPILED IN THE DIVISION OF ENGINEERING FROM SURVEYS BY B.L.M. AND U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

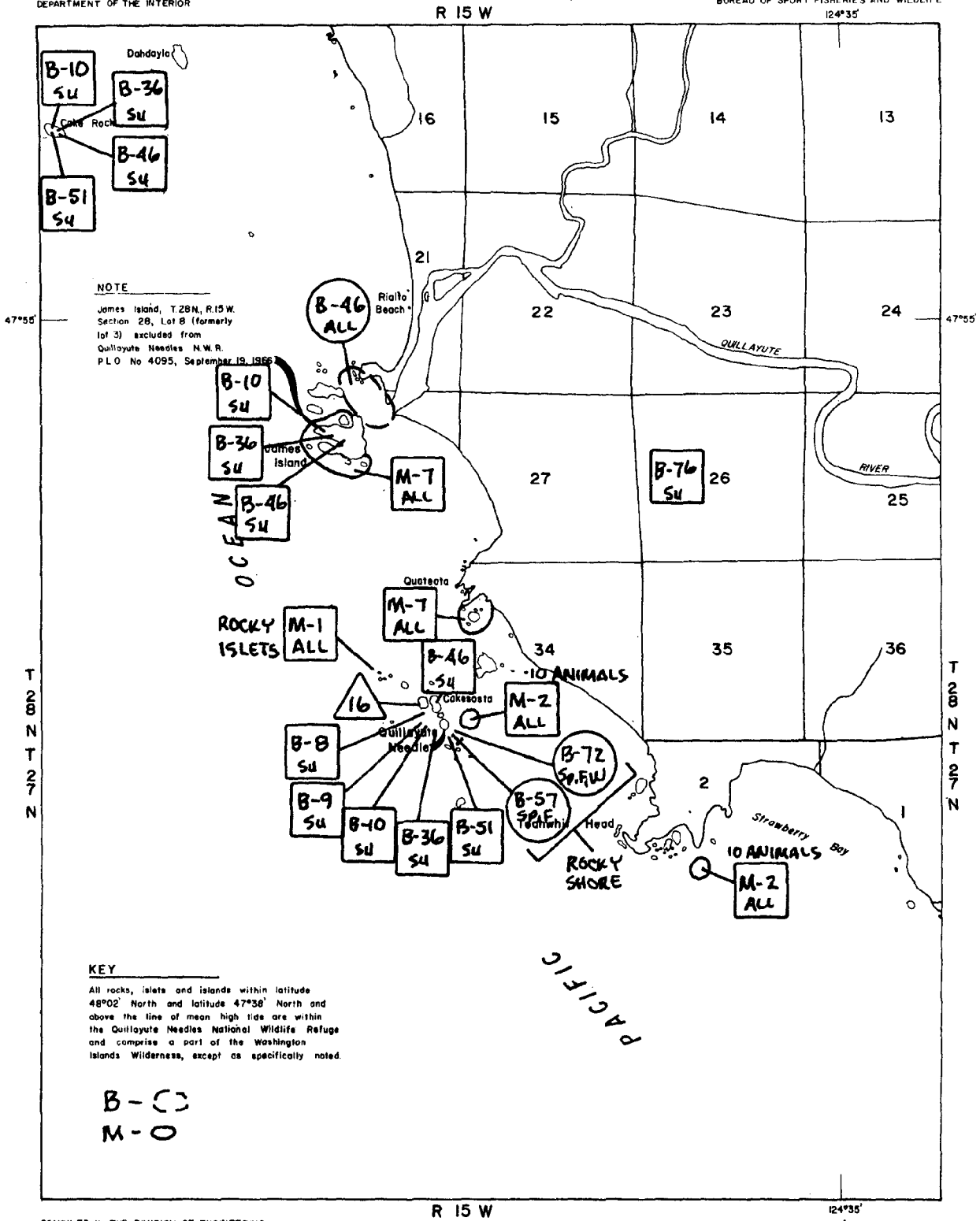
TRUE NORTH
MAGNETIC N
MEAN DECLINATION

IR WASH 36

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM AND JEFFERSON COUNTIES, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



NOTE

James Island, T.28N., R.15W. Section 28, Lot 8 (formerly lot 3) excluded from Quillayute Needles N.W.R. P.L.O. No 4095, September 19, 1966

KEY

All rocks, islets and islands within latitude 48°02' North and latitude 47°38' North and above the line of mean high tide are within the Quillayute Needles National Wildlife Refuge and comprise a part of the Washington Islands Wilderness, except as specifically noted.

B - ◯
M - ○

R 15 W
WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

124°35'
TRUE NORTH
MAGNETIC N.
MEAN DECLINATION

COMPILED IN THE DIVISION OF ENGINEERING
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PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

IR WASH 36

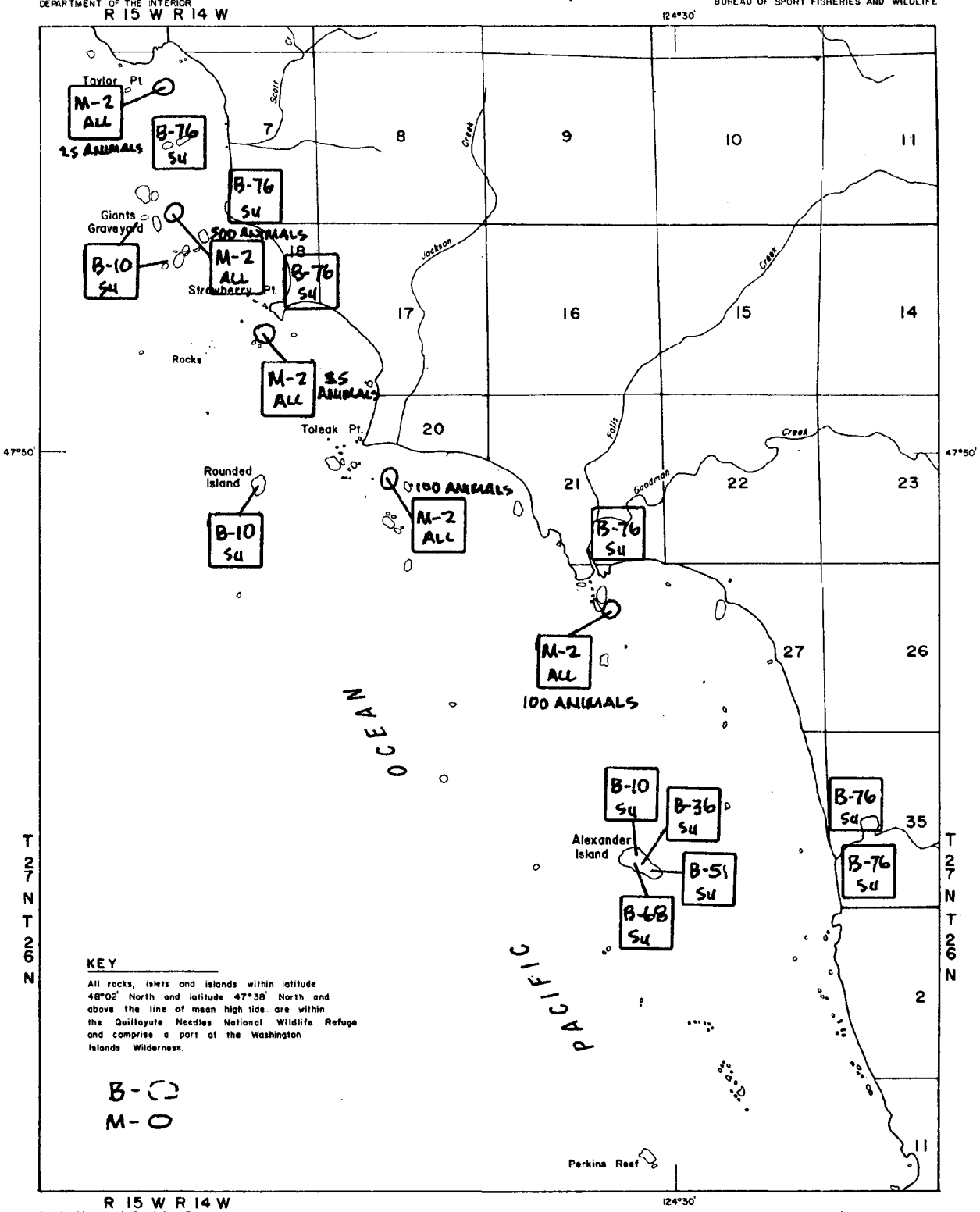
BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM AND JEFFERSON COUNTIES, WASHINGTON

8

SHEET 8, OF 13

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



KEY

All rocks, islets and islands within latitude 48°02' North and latitude 47°38' North and above the line of mean high tide are within the Quillayute Needles National Wildlife Refuge and comprise a part of the Washington Islands Wilderness.

B - ( )
M - ( )

R 15 W R 14 W

COMPILED IN THE DIVISION OF ENGINEERING
FROM SURVEYS BY B.L.M. AND U.S.G.S.

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC NORTH
MEAN DECLINATION

PORTLAND, OREGON

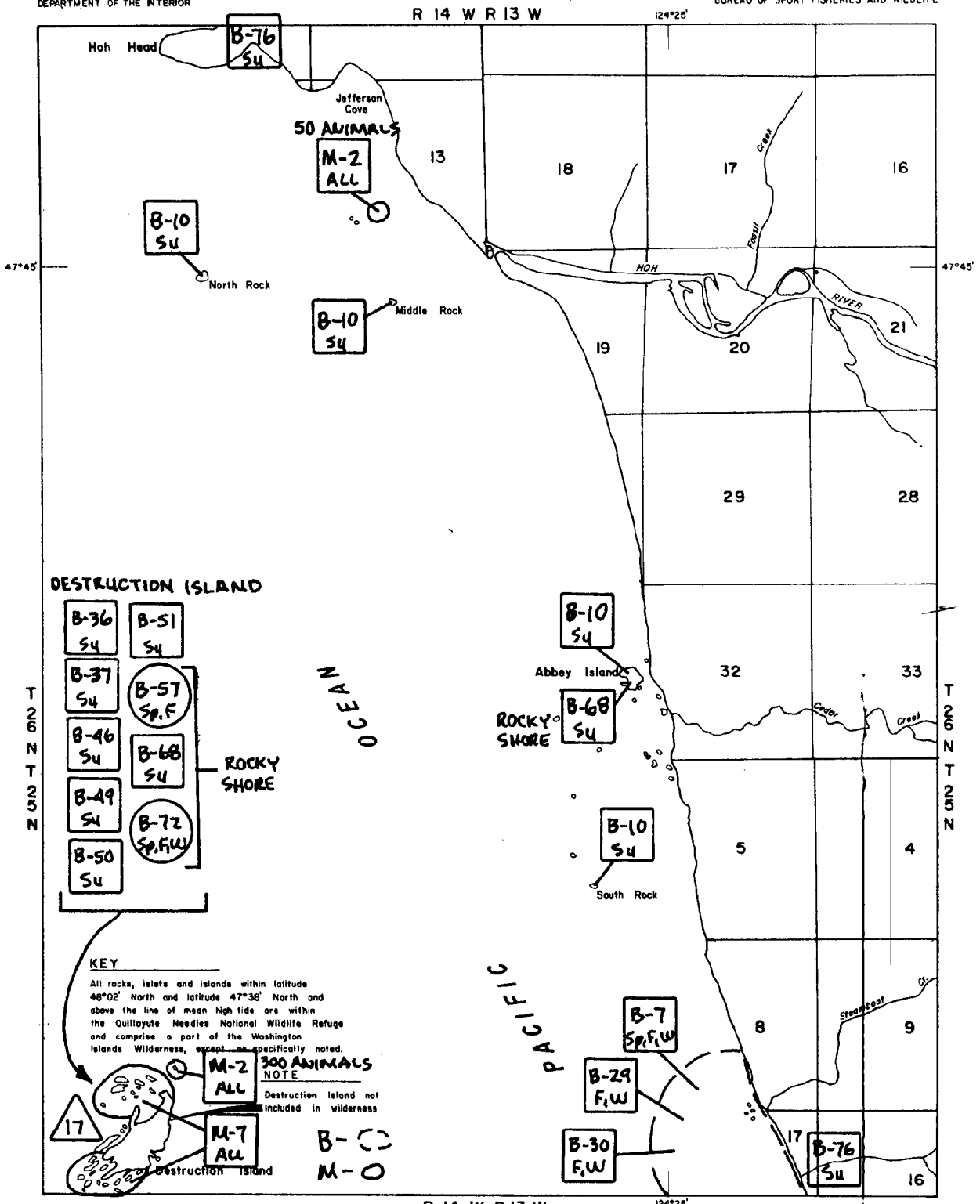
AUGUST, 1967
REVISED JANUARY, 1969

IR WASH 36

BOUNDARY OF
WASHINGTON ISLANDS. WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM AND JEFFERSON COUNTIES, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



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FROM SURVEYS BY B.L.M. AND U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

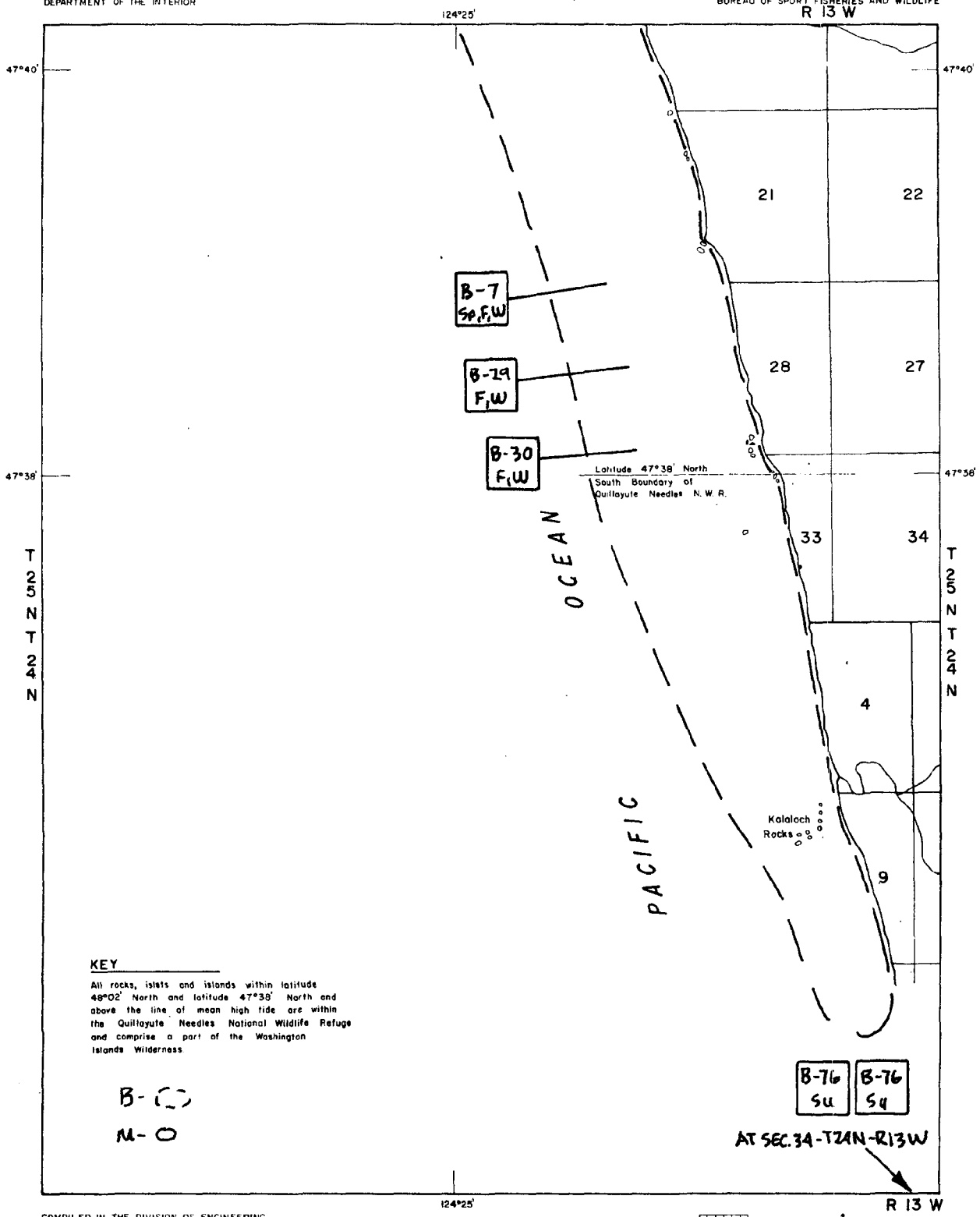
TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC N
MEAN DECLINATION

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
CLALLUM AND JEFFERSON COUNTIES, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



KEY

All rocks, islets and islands within latitude 48°02' North and latitude 47°38' North and above the line of mean high tide are within the Quillayute Needles National Wildlife Refuge and comprise a part of the Washington Islands Wilderness.

B- ( )
M- O

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FROM SURVEYS BY B.L.M. AND U.S.G.S.

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

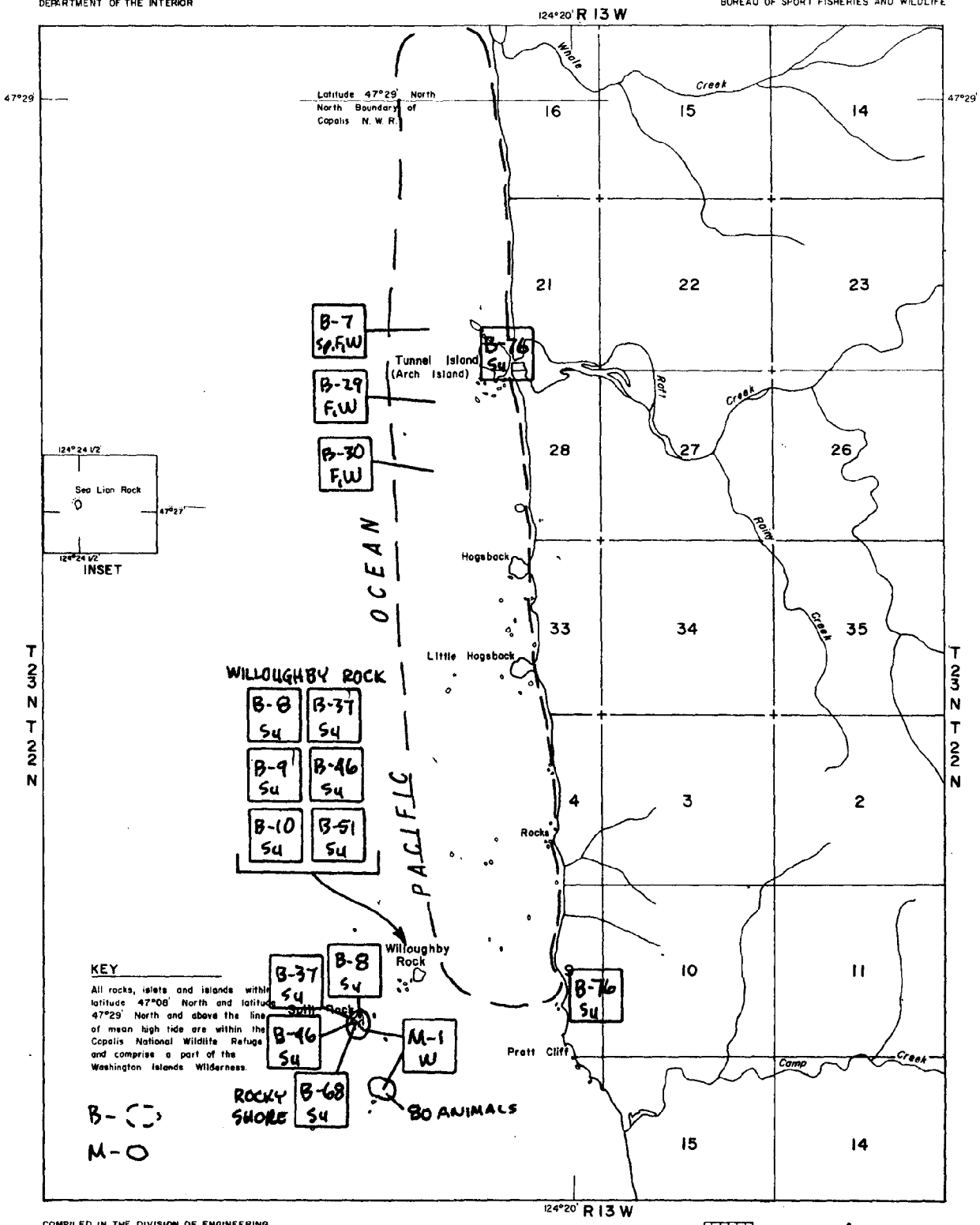
MEAN DECLINATION

IR WASH 36

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO. 91-504, OCTOBER 23, 1970
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
GRAYS HARBOR COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



KEY

All rocks, islets and islands within latitude 47°08' North and latitude 47°29' North and above the line of mean high tide are within the Copalis National Wildlife Refuge and comprise a part of the Washington Islands Wilderness.

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PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

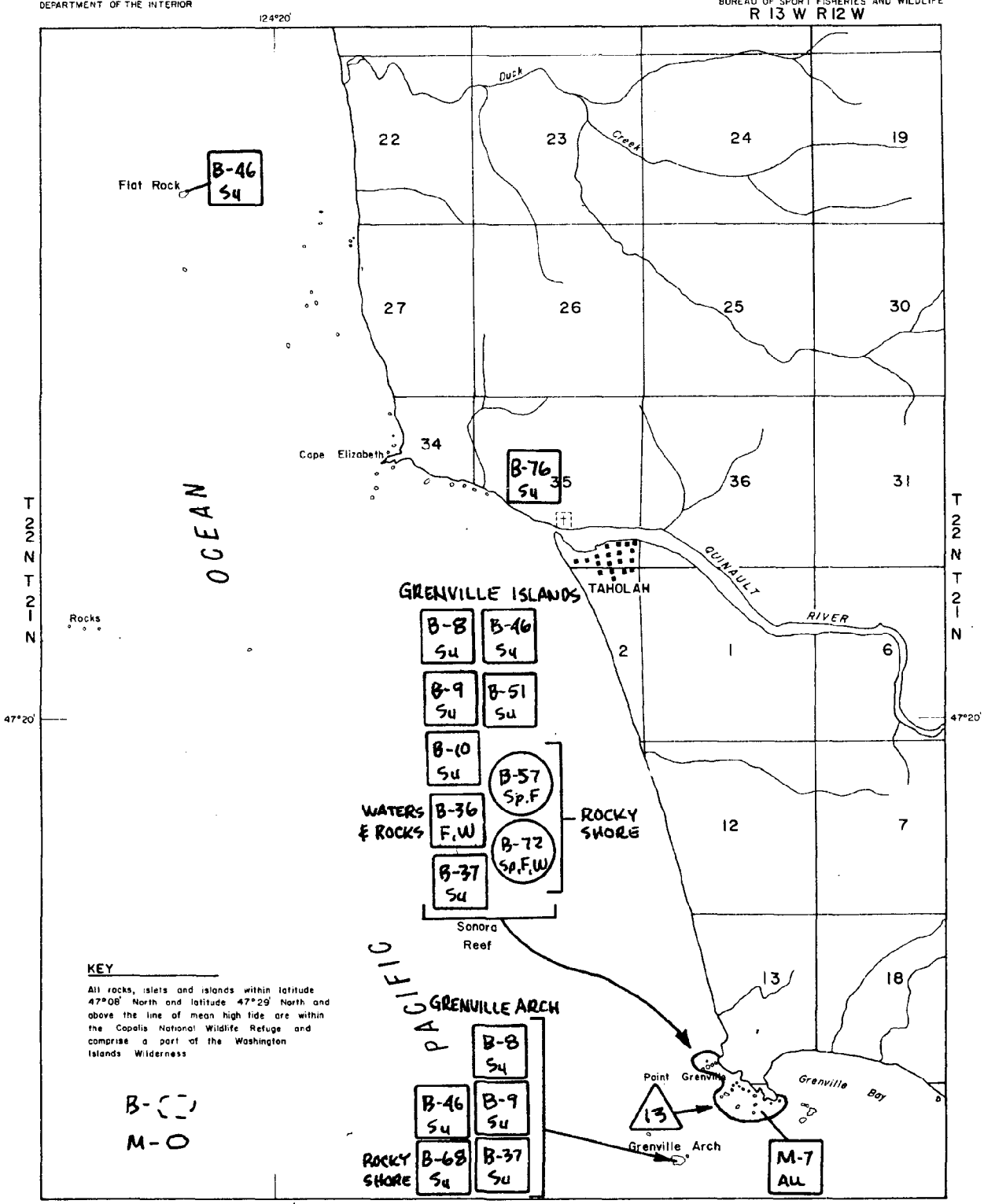
TRUE NORTH
MAGNETIC N.
MEAN DECLINATION

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
PUBLIC LAW NO 91-504, OCTOBER 23, 1970

COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
GRAYS HARBOR COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE



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WILLAMETTE MERIDIAN

Scale 40 20 0 80 CHAINS
1/2 1/4 0 1 MILES

TOWNSHIP DIAGRAM

TRUE NORTH
MAGNETIC N
MEAN DECLINATION

PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

IR WASH 34

BOUNDARY OF
WASHINGTON ISLANDS WILDERNESS
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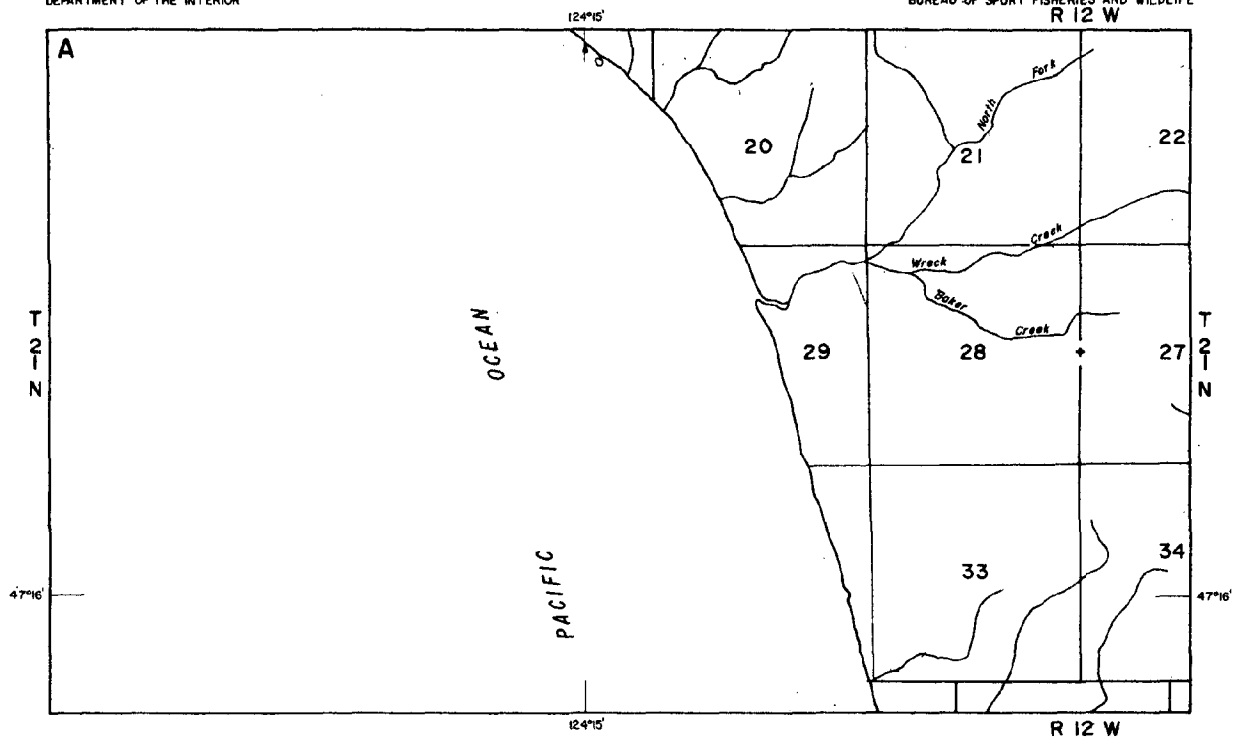
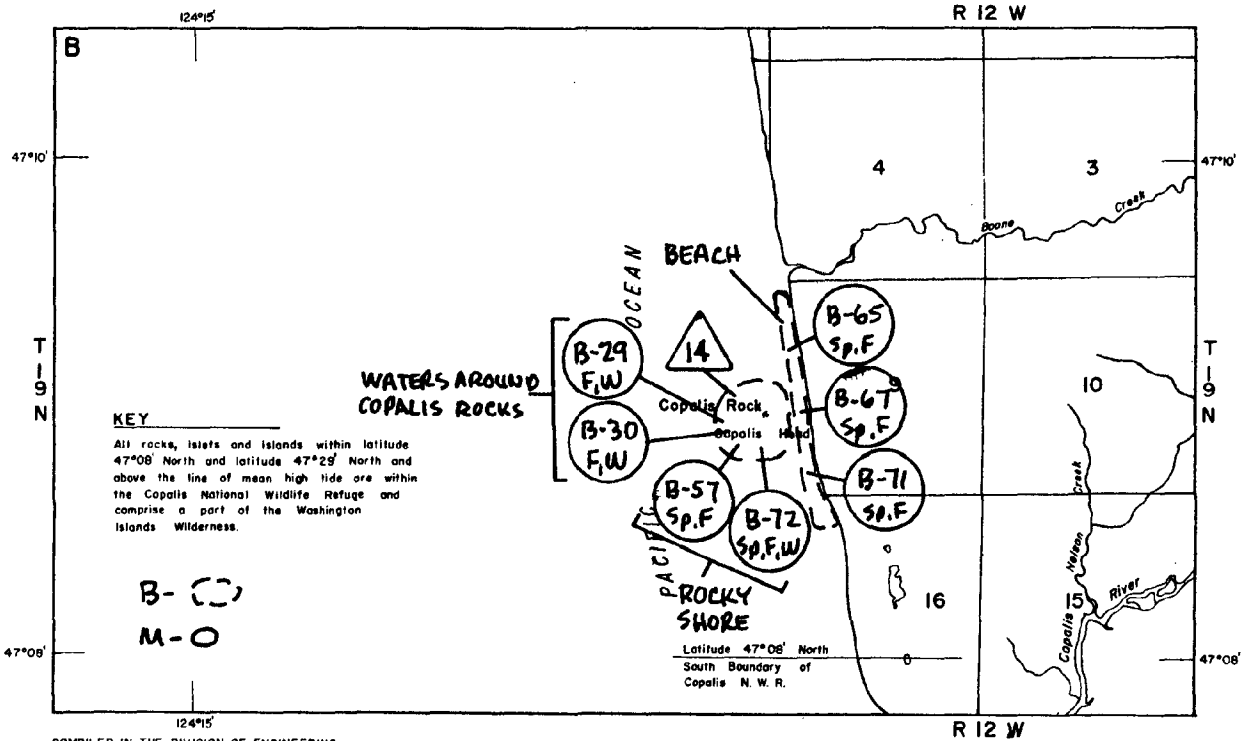
COPALIS, FLATTERY ROCKS, AND QUILLAYUTE NEEDLES NATIONAL WILDLIFE REFUGES
GRAYS HARBOR COUNTY, WASHINGTON

UNITED STATES
DEPARTMENT OF THE INTERIOR

FISH AND WILDLIFE SERVICE
BUREAU OF SPORT FISHERIES AND WILDLIFE





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PORTLAND, OREGON

AUGUST, 1967
REVISED JANUARY, 1969

WILLAMETTE MERIDIAN

Scale 0 20 40 80 160 CHAINS
0 1/4 1/2 1 2 MILES

TOWNSHIP DIAGRAM

MEAN DECLINATION

IR WASH 34

The Washington Islands Wilderness is administered through the offices of the Refuge Manager, Willapa National Wildlife Refuge, Ilwaco, Washington 98624.

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