9370

Diag. Cht. No. 5802.

DESCRIPTIVE   REPORT

Type of Survey ....Shoreline....

Field No. ..Ph-113.(53.)... *Office No.* ...T-9370....

LOCALITY

State ....Oregon....

General locality ....Yaquina River-Newport....

Locality ..Yaquina Bay....

19/4 52

CHIEF OF PARTY
F.A.Riddell, Portland Photo. Office
L.J.Reed, Div. of Photo.,Wash.,D.C.

9370

DATA RECORD

T-9370

Project No. (II): **Ph-113(53)**   Quadrangle Name (IV):   **YAQUINA BAY**

Field Office (II):   Chief of Party:

Photogrammetric Office (III): **Washington, D.C.**   Officer-in-Charge: **Louis J.Reed, Chief, Stereoscopic Mapping Branch**

Instructions dated (II) (III):   Copy filed in Division of
                                                       Photogrammetry (IV)
                Oral

Method of Compilation (III):   **Kelsh Plotter**

Manuscript Scale (III): **1:5,000**   Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): **Photo = 20,000:: Manuscript = 5,000:: Inst Work Sheet = 4,0C**

Date received in Washington Office (IV):   Date reported to Nautical Chart Branch (IV):

Applied to Chart No.   Date: Date registered (IV): **2-26-5f**

Publication Scale (IV):   Publication date (IV):

Geographic Datum (III):   **NA 1927**   Vertical Datum (III):

                                            Mean sea level except as follows:
                                            Elevations shown as (25) refer to mean high water
                                            Elevations shown as (5) refer to sounding datum
                                            i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:   Long.:   Adjusted
                                                       XXXXXXXXXX

Plane Coordinates (IV):   State: Zone:

Y=   X=

Oregon State Grid, North Zone, with 2000Ft intervals.

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

delineated
Areas contoured by various personnel
(Show name within area)
(II) (III)

100% delineated by Mr Ivan R. Jarrett
on the Kelsh Plotter, Model "B".

DATA RECORD

Field Inspection by (II):   Date:

Planetable contouring by (II):   Date:

Completion Surveys by (II):   Date:

Mean High Water Location (III) (State date and method of location):
     The MHWL was delineated on the plotting instrument guided by March 1953 field inspection of the shoreline on the same photographs as used in the instrument. MHWL is dated 1953.

Projection and Grids ruled by (IV): Stephen Rose on the Reading   Date: 23 Feb 53
                                 Ruling Machine

Projection and Grids checked by (IV): Howard D. Wolfe   Date: 24 Feb 53

Control plotted by (III):   Louis J. Reed   Date: 25 Feb 53

Control checked by (III):   Stanley W. Trow   Date: 25 Feb 53

Radial Plot or Stereoscopic Control extension by (III):   None (A single model)   Date:

Stereoscopic Instrument ~~compilation by~~: ~~Photography~~ shoreline delineation by ~~Company~~ Ivan R. Jarrett   Date: Date: 30 Mar 53

Manuscript delineated by (III):   John B. McDonald   Date: 6 Apr 53

Photogrammetric Office Review by (III):   Louis J. Reed   Date: 6 Apr 53

Elevations on Manuscript   None   checked by (II) (III):   Date:

Camera (kind or source) (III): **8¼f, normal angle, single lens, Dept of Ag**

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
DFL-12H-165 & 166	5 Oct 52	?	20,000	

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range
Reference Station:			
Subordinate Station:			
Subordinate Station:			

Washington Office Review by (IV):   Date:

Final Drafting by (IV):   Date:

Drafting verified for reproduction by (IV):   Date:

Proof Edit by (IV):   Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): *7 mi*

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):   Recovered: Identified: **1 8**

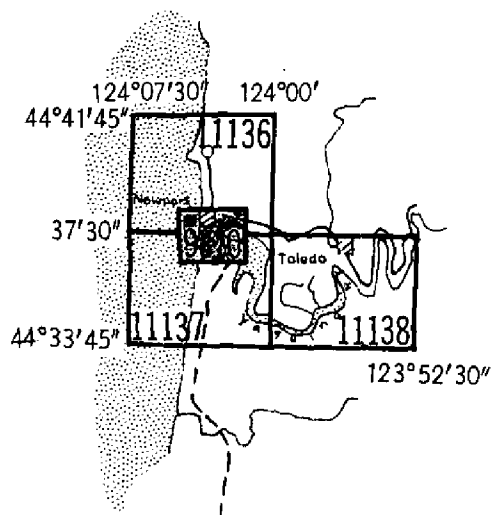Number of BMs searched for (II):   Recovered: Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): **26**

Remarks:

SHORELINE MAPPING PROJECT PH-113

Newport, Oreg. Yaquina Bay & River

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Lin. Miles Shoreline
11136	7
9370	8
11137	15
11138	15
TOTAL	**45**

1. <u>Preface</u>:

FIELD INSPECTION AND RADIAL PLOT REPORTS

2-20: A complete shoreline inspection was made just a few days prior to instrument compilation by personnel from the Portland Photogrammetric Office. No written report was made. Eight triangulation stations were identified on a contact copy of photo 166, five by the sub-station method, and the balance of the field inspection was made on a 10,000 scale ratio print of photo 165 and photo 166.

21-30: No radial plot was required since the project consisted of but one instrument model; therefore, no radial plot report exists.

31. Delineation:

This shoreline manuscript was delineated on the Kelsh Plotter, model "B". It is complete to the limits of the single model of this project although not complete to the limits of the manuscript.

32. Control:

10 horizontal points controlled this survey; vertically, the model was leveled on the shoreline pictured in the model. 8 of these 10 points were photo identified, 5 by sub-stations, and GPs were furnished for them by the field inspector. The GPs were converted to Oregon State Grid (North Zone) coordinates by The Airport Section, Washington Office, and plotted on a 1:4,000 scale 6" grid. Instrument compilation was made direct on this vinylite grid and reduced photographically to 1:5,000 scale for tracing by squares onto the 1:5,000 acetate manuscript. The other two control points were harbor lights which were instrument identified direct. The manuscript does not show the stations which were used thru sub-stations. One sub-station, Gorner 1953, did not agree with all the rest of the stations (10) which were held to in the model; Corner sub-station was missed by about 6mm west at 1:4,000 scale.

33. Not applicable. Supplemental Data:

34. Contours and Drainage: Not Applicable.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate. It was used as a guide during instrument delineation of the shoreline. No MLWL was delineated, office or field, but some shoal areas were instrument delineated (only).

36. Offshore Details: Not applicable.

37. Landmarks and Aids: Not applicable.

38. Control for Future Surveys:

26 hydro signals were selected and photo-identified by the field inspector, and they were numbered and plotted during the instrument delineation. See side-heading 49 below.

39. Junctions: Not applicable.
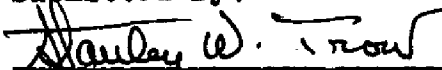
40 Accuracy:

The horizontal positioning of this survey at 1:5,000 scale meets the requirements established by National Map accuracy Standards. No vertical accuracy is involved.

49. Notes for the Hydrographer: See separate page enclosed.

50. Compilation Office Review: See T-2 form attached.

Submitted By: Approved by:

Stanley W. Trow, Chief,   Louis J. Reed, Chief,
Single Lens Plotting Section   Stereoscopic Mapping Branch
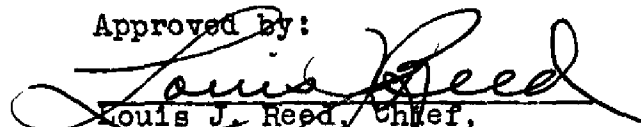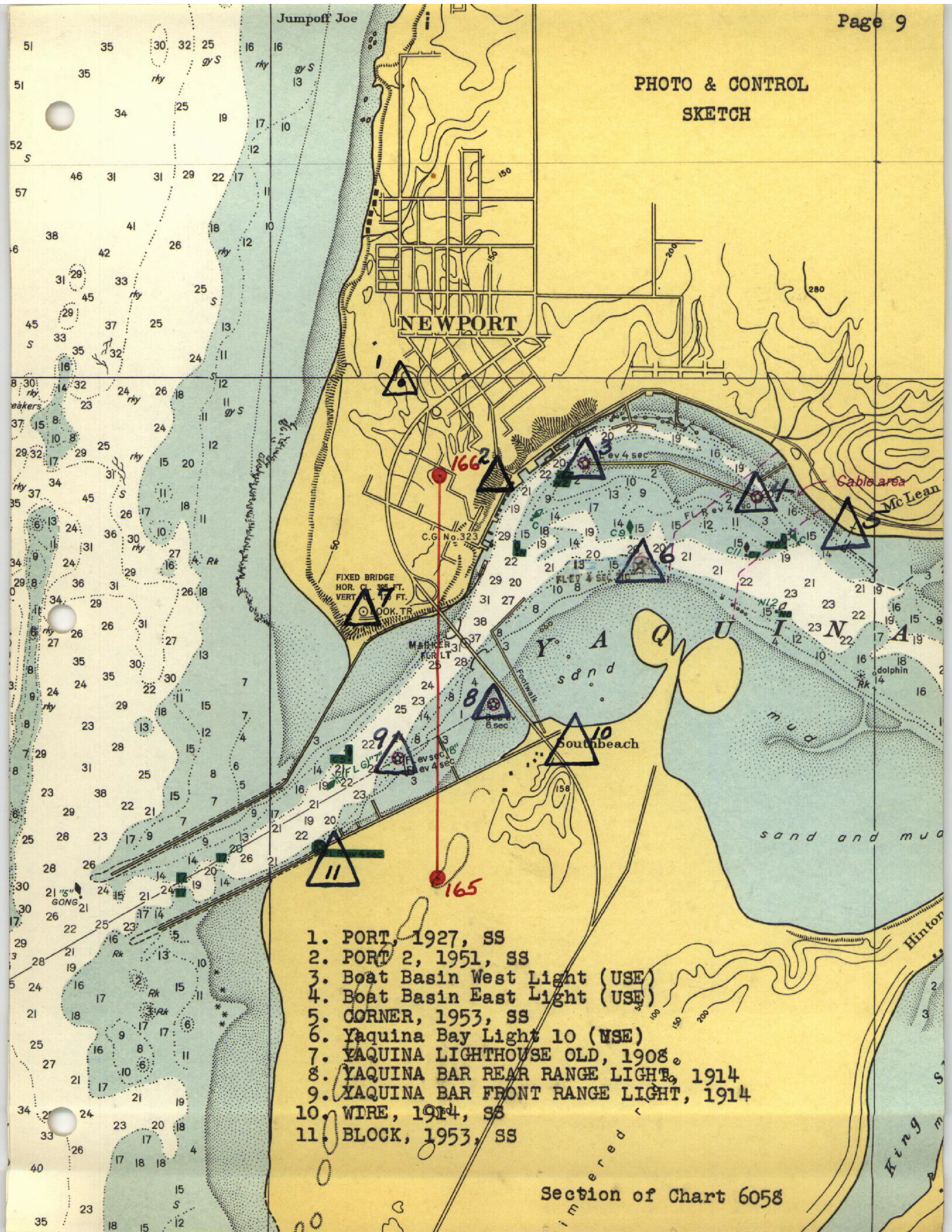
PHOTO & CONTROL
SKETCH

Jumpoff Joe

NEWPORT

Y A Q U I N A

Mc Lean

Cable area

sand

mud

sand and mud

Southbeach

FIXED BRIDGE
HOR. CL. 395 FT.
VERT. FT.

C.G. No.323

MARKER
FL R LT

LOOK. TR.

GONG

1. PORT, 1927, SS
2. PORT 2, 1951, SS
3. Boat Basin West Light (USE)
4. Boat Basin East Light (USE)
5. CORNER, 1953, SS
6. Yaquina Bay Light 10 (USE)
7. YAQUINA LIGHTHOUSE OLD, 1908
8. YAQUINA BAR REAR RANGE LIGHT, 1914
9. YAQUINA BAR FRONT RANGE LIGHT, 1914
10. WIRE, 1914, SS
11. BLOCK, 1953, SS

Section of Chart 6058

Portland Photogrammetric Office
Swan Island Postal Station
Portland 18, Oregon

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

AIR MAIL   18 March 1953

To: The Director
            U. S. Coast & Geodetic Survey
            Department of Commerce
            Washington 25, D. C.

Subject: Data for Sheet T-9370

Reference: Instructions - Project Ph-113, dated 27 Feb. 1953

The enclosed data are forwarded as directed by paragraph 7 of the reference. Photograph 165 will be forwarded as soon as the shoreline inspection on it has been completed. Almost continual rain and sickness of personnel has delayed progress on the work.

As none of the old stations at McLean Point could be recovered a new unmarked station "CORNER" was established for photograph control. The position was determined by a single triangle off the line WIRE - PORT 2. As a check CORNER was occupied and a position was determined by three point fix using WIRE, YAQUINA BAY LT. 10 and BOAT BASIN W. LT. The two positions differed by 0.6 m. in latitude and 0.2 m. in longitude. The grid positions for the lights were obtained from the USED and were converted to geographic positions in this office.

YAQUINA JETTY LIGHT, 1914 could not be definitely recovered as the light was gone. A large block of concrete which probably had been the foundation for the light was found and occupied for a three point fix. The fix, YAQUINA HEAD LIGHTHOUSE, YAQUINA LIGHTHOUSE OLD, NEWPORT CENTER of BRIDGE LIGHT was none too strong but the computed position (unmarked station BLOCK) checked the position of YAQUINA JETTY LIGHT by 0.8 m. in latituded and on in longitude.

In the other two groups of stations previously established

stations were recovered and identified. Additional cuts will be taken to the lights to check their position.

Fred A. Riddell
Comdr., USC&G Survey
Officer-in-Charge

GPs recd from Portland (2 pages) atchd.

75:

Please compute Oregon State Coordinates for the
stations marked ✗ on the left edge of the
G.P. list attached hereto. PRIORITY PRONTO!

computed 3/24/53
comp. by H. Murray
check —

MAP T- 9370 ...... PROJECT NO. Ph-113 ...... SCALE OF MAP 1:5000 ...... SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS — FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS — FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS — FORWARD	(BACK)
WIRE, 1914	G-591	N.A. 1927	44 37 08.971	276.9	(1575.2)	No				
	Pg. 47		124 03 00.173	03.8	(1319.0)					
X WIRE, 1914	Field	DO	44 37 08.549	263.9	(1588.2)					
Sub. Sta.	Comp.		124 03 00.336	7.4	(1315.4)					
BLOCK	Field	=	44 36 54.453	1680.9	(171.2)	No				
	Comp.		124 03 50.088	1104.4	(218.5)					
X BLOCK		=	44 36 51.143	1578.7	(273.4)					
Sub. Sta.	DO		124 03 50.16	1106.1	(216.8)					
PORT 2, 1951	G-591	=	44 37 45.427	1402.2	(449.8)	No				
	Pg. 47		124 03 20.016	441.2	(881.4)					
X PORT 2, 1951	Field	=	44 37 44.836	1384.0	(468.0)					
Sub. Sta.	Comp.		124 03 19.094	420.9	(901.7)					
PORT, 1927	G-601	=	44 38 00.462	14.3	(1837.8)	No				
	Pg. 77		124 03 37.512	826.8	(495.7)					
X PORT, 1927	Field	=	44 37 50.057	1847.7	(4.4)					
Sub. Sta.	Comp.		124 03 31.996	837.5	(485.0)					
X Yaquina Bay Lt. 10	USED	=	44 37 33.661							
			124 02 48.361							
X Boat Basin East Light	USED	=	44 37 42.890							
			124 02 23.076							
X Boat Basin West Light	USED	=	44 37 47.696							
			124 02 58.180							
CORNER	Field	=	44 37 37.133	1146.2	(705.9)	No				
	Comp.		124 02 06.067	133.7	(1188.9)					

1 FT.=.3048006 METER

COMPUTED BY: F.A.R.   DATE 3/16/53   CHECKED BY: J.L.H.   DATE 3/17/53

M-2388-12

MAP T. 9370 .... PROJECT NO. Ph-113 .... SCALE OF MAP 1:5000 .... SCALE FACTOR ....

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
X CORNER Sub. sta.	Field Comp.	N.A. 1927	44 37 38.616 / 124 02 04.459	1192.0 (660.1)			
Yaquina Bar RearRange	USED	Do.	44 37 14.242 / 124 03 15.542	98.3 (1224.3)			
X Yaquina Bar Front Range	" " '		44 37 06.631 / 124 03 34.637				

1 FT.=.3048006 METER

COMPUTED BY ....   DATE ....   CHECKED BY ....   DATE ....

M-2388-12

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 725 d

/30 300

PLANE COORDINATES ON LAMBERT PROJECTION
(Condensed form for calculating-machine computation)

PH 113

$X = R \sin \theta + C$

$C = \underline{2,000,000.00}$

$Y = R_b - R \cos \theta$

$R_b = \underline{21,383,862.48}$

State-Zone **Oregon N**

Grid Az. = Geod. Az. - θ

Station	Latitude	R	$\sin \theta$	X
	Longitude	θ	$\cos \theta$	Y
1 Wire Sub	44 37 08.549	21,036,645.30	.04392 76011	1,075,910.50
	124 03 10.336	-02 31 03.636	99903 47169	367,513.50
	Grid azimuth to azimuth mark			
2 Block Sub	44 36 51.144	21,038,407.83	.04409 87100	1,072,232.09
	124 03 50.167	-02 31 38.975	99902 71761	365,911.32
	Grid azimuth to azimuth mark			
3 Port 2 Sub. 1951	44 37 44.838	21,032,970.49	.04399 20401	1,074,716.72
	124 03 19.094	-02 31 16.939	99903 18816	371,244.40
	Grid azimuth to azimuth mark			
4 Port Sub. 1927	44 37 59.857	21,031,449.58	04405 69663	1,073,418.13
	124 03 37.996	-02 31 30.344	99902 90204	372,824.01
	Grid azimuth to azimuth mark			
5 Yaquina Bay Light	44 37 33.661	21,034,102.33	.04388 64722	1,076,887.45
	124 02 48.361	-02 30 55.143	99903 65246	370,015.99
	Grid azimuth to azimuth mark			
6 Boat Basin E. Light	44 37 42.890	21,033,167.75	04379 96189	1,078,155.27
	124 02 23.876	-02 30 37.211	99904 03360	370,869.50
	Grid azimuth to azimuth mark			
7 Boat Basin W. Light	44 37 41.696	21,032,681.07	04392 02022	1,076,240.40
	124 02 58.180	-02 31 02.107	99903 50422	371,467.06
	Grid azimuth to azimuth mark	04373 56752 ✓	1,080,081.28 ✓	
8 ✗ Corner Sub	44 37 38.616	21,033,600.56 ✓	04402 67832	1,073,968.75
	124 02 04.459	-02 30 24.009	99904 31376	370,378.18 ✓
	Grid azimuth to azimuth mark			
9 Yaquina Bar R. Range	44 37 14.242	21,036,068.80	14397 98394	1,074,837.07
	124 03 15.542	-02 31 14.420	99903 24188	370,422.81
	Grid azimuth to azimuth mark	✓ 04404 54264 ✓	368,137.78 ✓	
10 Yaquina Bar F. Range	44 37 06.631	21,036,839.53	04396 83054 ✓	1,073,423.43 ✓
	124 03 34.637	-02 31 27.9614	99902 95293	1,075,045.81
	Grid azimuth to azimuth mark			367,428.59 ✓
11				
	Grid azimuth to azimuth mark			
12				
	Grid azimuth to azimuth mark			

M-2524-1

GEODETIC POSITIONS FROM LAMBERT COORDINATES
(CALCULATING MACHINE COMPUTATION)

STATE – ZONE _Oregon North_ $l =$ _0.709 18602_

Station _Wire Sub_

C	− 2,	R_b	21,383,852.48
X	1,075 910.50	Y	− 367 513.50
X' = X − C	− 924 089.50	$R_b − Y$	21,016,338.98
$\tan\theta = X' \div (R_b−Y)$	0.04397.00512	θ	9063.636
θ	− 2 − 31 − 03.6360	$\Delta\lambda = \theta \div l$	12780.337
$\cos\theta$	0.99903 47168	$\Delta\lambda$	− 3 − 33 00.337
$R = (R_b−Y) \div \cos\theta$	21,036,645.30	Central Meridian	120 30 00
ϕ	44−37−08.542	$\lambda = C.M. − \Delta\lambda$	124 03 00.337

Station _Block Sub_

C	−	R_b	.
X	1,072,232.09	Y	− 365,911.32
X' = X − C	927 767.91	$R_b − Y$	21,017,941.16
$\tan\theta = X' \div (R_b−Y)$	0.04414 17122	θ	9098.975
θ	− 2 − 31 − 38.9750	$\Delta\lambda = \theta \div l$	12830.167
$\cos\theta$	0.99902 71760	$\Delta\lambda$	− 3 − 33 − 50.167
$R = (R_b−Y) \div \cos\theta$	21,038,407.82	Central Meridian	120 30
ϕ	44−36−51.144	$\lambda = C.M. − \Delta\lambda$	124 03 50.167

Station _Port 2 Sub 1951_

C	−	R_b	
X	1,074,716.72	Y	− 371,244.40
X' = X − C	925 283.28	$R_b − Y$	21,012,608.08
$\tan\theta = X' \div (R_b−Y)$	0.04403 46708	θ	9076.939
θ	− 2 − 31 − 16.9390	$\Delta\lambda = \theta \div l$	12 799.095
$\cos\theta$	0.99903 18816	$\Delta\lambda$	− 3 − 33 − 19.095
$R = (R_b−Y) \div \cos\theta$	21,032 970.48	Central Meridian	.
ϕ	44−37− 44.858	$\lambda = C.M. − \Delta\lambda$	124−03−19.095

Station _Port Sub 1927_

C	−	R_b	
X	1,073,418.13	Y	− 372,824.01
X' = X − C	926 581.87	$R_b − Y$	21,011,028.47
$\tan\theta = X' \div (R_b−Y)$	0.04409 97865	θ	9090.344
θ	− 2 − 31 − 30.3440	$\Delta\lambda = \theta \div l$	12,817.997
$\cos\theta$	0.99902 90204	$\Delta\lambda$	− 3 − 33 − 37.997
$R = (R_b−Y) \div \cos\theta$	21,031,449.57	Central Meridian	
ϕ	44−37−59.857	$\lambda = C.M. − \Delta\lambda$	124−03−37.997

GEODETIC POSITIONS FROM LAMBERT COORDINATES
(CALCULATING MACHINE COMPUTATION)

STATE — ZONE ___Oregon___ ___North___ $l = 0.709\ 18602$

Station ___Yaquina Bay Light___

C	− 2,000,000.00	R_b	21,383,852.48
X	1,076,887.45	Y	− 370,015.99
X' = X − C	− 923,112.55	$R_b - Y$	21,013,836.49
$\tan\theta = X' \div (R_b - Y)$	0.04392 87966	θ	9055.143
θ	− 2-30-55.1430	$\Delta\lambda = \theta \div l$	12,768.361
$\cos\theta$	0.99903 65246	$\Delta\lambda$	− 3-32-48.361
$R = (R_b - Y) \div \cos\theta$	21,034,102.33	Central Meridian	120 30
ϕ	44-37-33.661	$\lambda = $ C.M. $- \Delta\lambda$	124 02-48.361

Station ___Boat Basin E Light___

C	−	R_b	
X	1,078,755.27	Y	− 370,869.50
X' = X − C	− 921,244.73	$R_b - Y$	21,012,982.93
$\tan\theta = X' \div (R_b - Y)$	0.04384 16921	θ	9037.211
θ	− 2-30-37.2110	$\Delta\lambda = \theta \div l$	12,743.076
$\cos\theta$	0.99904 03363	$\Delta\lambda$	− 3-32-23.076
$R = (R_b - Y) \div \cos\theta$	21,033,167.74	Central Meridian	120 30
ϕ	44-37-42.890	$\lambda = $ C.M. $- \Delta\lambda$	124-02-23.076

Station ___Boat Basin W. Light___

C	−	R_b	
X	1,076,240.40	Y	− 371,467.06
X' = X − C	− 923,759.60	$R_b - Y$	21,012,385.42
$\tan\theta = X' \div (R_b - Y)$	0.04396 26246	θ	9062.1070
θ	− 2-31-02.1070	$\Delta\lambda = \theta \div l$	12,778.181
$\cos\theta$	0.99903 50424	$\Delta\lambda$	− 3-32-58.181
$R = (R_b - Y) \div \cos\theta$	21,032,681.06	Central Meridian	120 30
ϕ	44-37-47.696	$\lambda = $ C.M. $- \Delta\lambda$	124-02-58.181

Station ___Corner Sub___

C	−	R_b	
X	1,073,968.75	Y	− 370,378.19
X' = X − C	926,031.25	$R_b - Y$	21,013,474.30
$\tan\theta = X' \div (R_b - Y)$	0.04406 84504	θ	
θ	− 2-31-23.893	$\Delta\lambda = \theta \div l$	
$\cos\theta$	*Checked in for*	$\Delta\lambda$	*computations*
$R = (R_b - Y) \div \cos\theta$		Central Meridian	120 30
ϕ		$\lambda = $ C.M. $- \Delta\lambda$	

GEODETIC POSITIONS FROM LAMBERT COORDINATES
(CALCULATING MACHINE COMPUTATION)

STATE – ZONE _Oregon North_ $l = 0.709\ 18602$

Station _Yaquim Bar R. Range_

C	− 20000000	R_b	
X	1,074,837.07	Y	− 368,137.78
X' = X − C	925,162.93	$R_b − Y$	21,015,714.70
tan θ = X' ÷ ($R_b − Y$)	0.04402 24348	θ	9074.420
θ	− 2 − 31 − 14.420''	Δλ = θ ÷ l	12,795.543
cos θ	0.9990 24188	Δλ	− 3 − 33 − 15.543
R = ($R_b − Y$) ÷ cos θ	21,036,068.80	Central Meridian	120 30
φ	44 − 37 − 14.242''	λ = C.M. − Δλ	124 − 03 − 15.543''

Station _Yaquim Bar F. Range_

C	−	R_b	
X	1,075,045.81	Y	− 367,428.59
X' = X − C	924,954.19	$R_b − Y$	21,016,423.89
tan θ = X' ÷ ($R_b − Y$)	0.04401 19170	θ	
θ		Δλ = θ ÷ l	
cos θ	_Checked on forward_	Δλ	
R = ($R_b − Y$) ÷ cos θ	_computations_	Central Meridian	120 30
φ		λ = C.M. − Δλ	

Station

C	−	R_b	
X		Y	−
X' = X − C		$R_b − Y$	
tan θ = X' ÷ ($R_b − Y$)		θ	''
θ	° ' ''	Δλ = θ ÷ l	''
cos θ		Δλ	° ' ''
R = ($R_b − Y$) ÷ cos θ		Central Meridian	° ' ''
φ	° ' ''	λ = C.M. − Δλ	° ' ''

Station

C	−	R_b	
X		Y	−
X' = X − C		$R_b − Y$	
tan θ = X' ÷ ($R_b − Y$)		θ	''
θ	° ' ''	Δλ = θ ÷ l	''
cos θ		Δλ	° ' ''
R = ($R_b − Y$) ÷ cos θ		Central Meridian	° ' ''
φ	° ' ''	λ = C.M. − Δλ	° ' ''

MAP T. 9370   PROJECT NO. Ph-113(53)   SCALE OF MAP 1:5,000   SCALE FACTOR

Photogrammetry

STATION	SOURCE OF INFORMATION (INDEX) no.	DATUM	OREGON STATE GRID y-COORDINATE / x-COORDINATE North Zone		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
YAQUINA BAR FRONT RANGE LIGHT, 1911 nd	191	NA 1927	367,428.59	1,073,423.43				
YAQUINA BAR REAR RANGE LIGHT, 1914 nd	191	"	370,442.81	1,074,837.07				
Sub-Station for PORT 2, 1951 dm (Sta.)	200	"	371,244.4	1,074,716.7				
Sub-Station for WIRE, 1914 dm (Sta.)	188	"	367,513.5	1,075,910.5				
Sub-Station for BLOCK, 1953 (Sta.)	Field Comps	"	365,911.3	1,072,232.1				
Sub-Station for CORNER, 1953 (Sta.)	Field Comps	"	370,378.18	1,080,081.28				
Sub-Station for PORT, 1927 dm (Sta.)	194	"	372,824.01	1,073,418.13				
YAQUINA LIGHT HOUSE, OLD, 1908 d	148	"	369,571.38	1,072,950.79				
Yaquina Bay Light 10	USE	"	370,015.99	1,076,887.45				
Boat Basin East Light	USE	"	370,869.50	1,078,755.27				
Boat Basin West Light	USE	"	371,467.06	1,076,240.40				

1 FT. = .3048006 METER

COMPUTED BY _____ DATE _____   CHECKED BY _____ DATE _____

M-2366 12

49. The following hydro stations were selected in the field and
identified there on photo 165 (10,000 ratio); numbers were
given each station as it was identified in the instrument
model, the numbers (only) being used to identify the stations
on the instrument work sheet.

Number	Description
1	E gable of building (36??)
2	SE corner of pier
3	Dolphin close to bend in pier
4	SW gable of building
5 -----	SW end of pier
6	SW gable of boathouse
7	SE corner of building
8	SW corner of building
9	End of center of pier
10 -----	End of pier
11	SW corner of pier
12	SW corner of pier
13	E corner of roof of Columbia River Packers Building
14	NE gable of Coast Guard Shop
15 -----	Dolphin off SW end of pier
16	Center of platform on Tower ruins
17	Dolphin on W end of "V"
18	Dolphin on W end of "V"
19	Center of large dolphin
20 -----	Center of large dolphin
21	Bend in breakwater
22	Center of Dolphin bearing cable crossing sign
23	Dolphin at west end of ~~breakwater~~ *tie-up*
24	Dolphin at E end of ~~breakwater~~ *tie-up*
25 -----	N gable
26	NE gable

#15 Tsheet location of Marine R.R. is wrong. See H-8039 plan 1:1000
Helmer

#24 Position on smooth sheet from air photograph Helmer

The shoreline of T-9370 was used as a check by using a projector, during the compilation of T-11136 and T-11137 (1:10,000) and was found to be in agreement with those compilations.

No changes were made to the shoreline during review of the 1:10,000 scale manuscripts.

The positions of hydrographic stations numbers 23 and 24, at the west and the east ends of a tie-up in Yaquina Bay, were changed a small amount on T-11137. They were also changed on T-9370, using red ink.

Lena T. Stevens

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9370

1. Projection and grids ___✓___ 2. Title ___✓___ 3. Manuscript numbers ___✓___ 4. Manuscript size ___✓___

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ___✓___ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ___𝑛___ 7. Photo hydro stations ___✓___ 8. Bench marks ___𝑛___

9. Plotting of sextant fixes ___𝑛___ 10. Photogrammetric plot report ___✓___ 11. Detail points ___𝑛___

ALONGSHORE AREAS
(Nautical Chart Data)

𝑛 = non - existent

12. Shoreline ___✓___ 13. Low-water line ___𝑛___ 14. Rocks, shoals, etc. ___✓___ 15. Bridges ___𝑛___ 16. Aids to navigation ___𝑛___ 17. Landmarks ___𝑛___ 18. Other alongshore physical features ___✓___ 19. Other along— shore cultural features _____

PHYSICAL FEATURES

20. Water features ___✓___ 21. Natural ground cover ___𝑛___ 22. Planetable contours ___𝑛___ 23. Stereoscopic instrument contours ___𝑛___ 24. Contours in general ___𝑛___ 25. Spot elevations ___𝑛___ 26. Other physical features ___𝑛___

CULTURAL FEATURES

27. Roads ___𝑛___ 28. Buildings ___𝑛___ 29. Railroads ___𝑛___ 30. Other cultural features ___✓___

BOUNDARIES

31. Boundary lines ___𝑛___ 32. Public land lines ___𝑛___

MISCELLANEOUS

33. Geographic names ___𝑛___ 34. Junctions ___𝑛___ 35. Legibility of the manuscript ___✓___ 36. Discrepancy overlay ___𝑛___ 37. Descriptive Report ___✓___ 38. Field inspection photographs ___✓___ 39. Forms ___𝑛___

40. _____ _____
Reviewer   Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

_____   _____
Compiler   Supervisor

43. Remarks:

M-2623-12

NAUTICAL CHARTS BRANCH

SURVEY NO. T.9370

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1954	New chart 6055	M.C.7. B.E. W.S.	Before After Verification and Review
2/13/62	6055	~~Before~~ After Verification and Review	
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all
information of like nature on the uncorrected chart.
Give reasons for deviations, if any, from recommendations
made under "Comparison with Charts" in the Review.