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IMAGERY
ANALYSIS
DIVISION

PIR

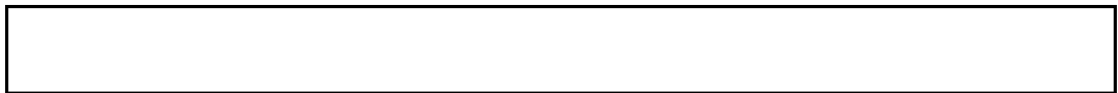
PHOTOGRAPHIC INTELLIGENCE REPORT

KIANGNAN SHIPYARD, SHANGHAI, CHINA



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Declass Review by NIMA/DOD



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CIA/PIR 67221

DATE MARCH 1955

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ERRATUM FOR PIR-67221

1. Page 3, annotation 1, line 3 - snorked should read snorkel.
2. Page 4, annotation 6, line 10 - screens should read sheds.
3. Page 8, NOTE paragraph, line 2 - probable should read possible.
4. Page 9, item 8 - 15 feet should read

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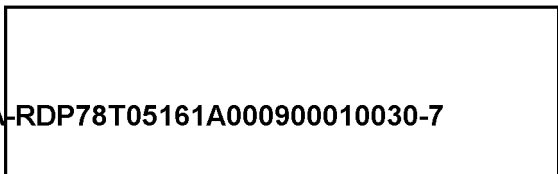
KIANGNAN SHIPYARD

SHANGHAI, CHINA



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KIANGNAN SHIPYARD
SHANGHAI, CHINA
31-12N 121-29E

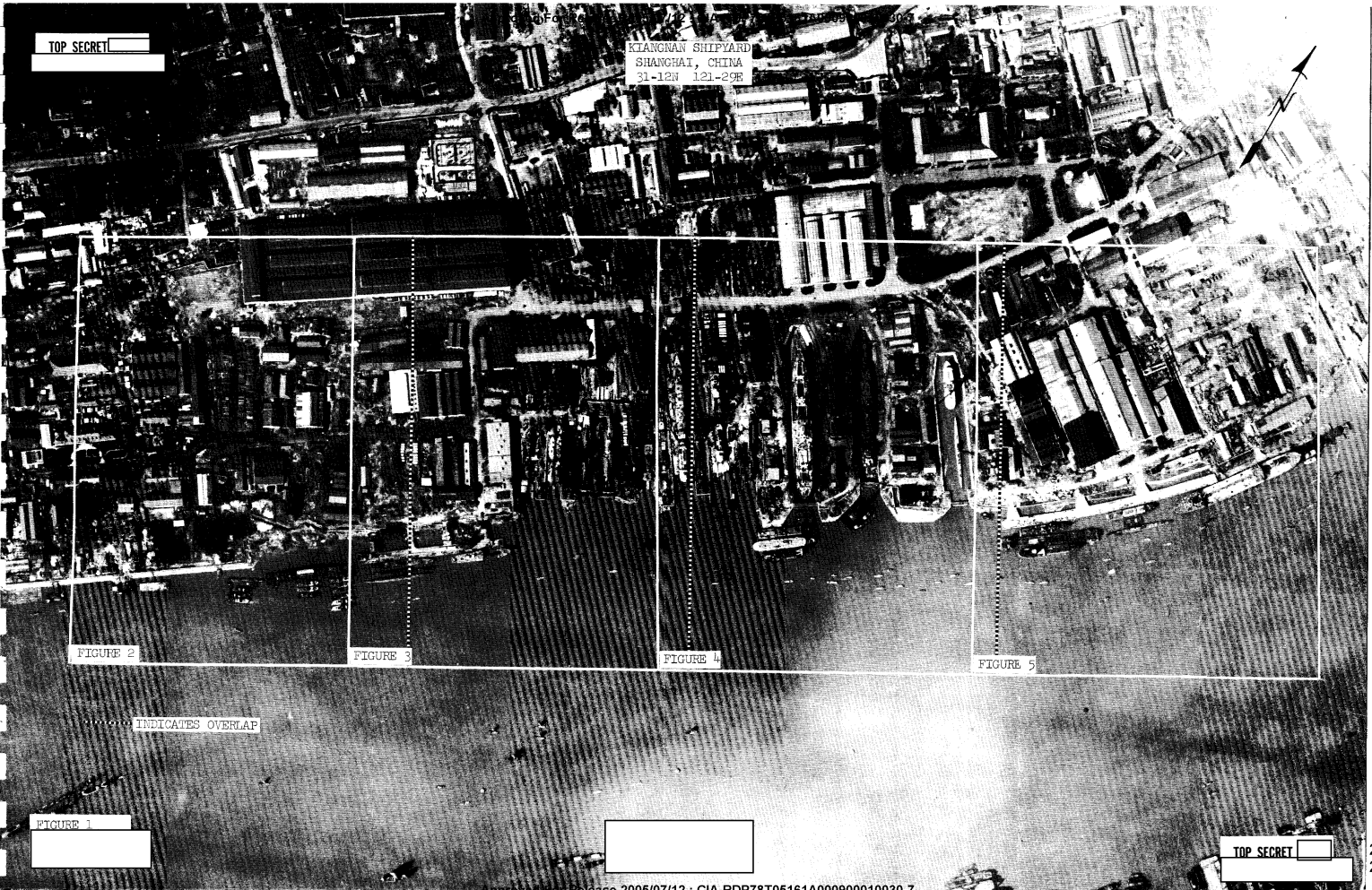


FIGURE 2

FIGURE 3

FIGURE 4

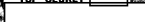
FIGURE 5

INDICATES OVERLAP

FIGURE 1

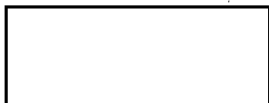


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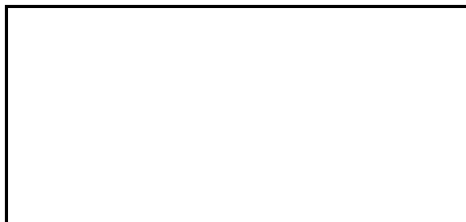


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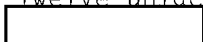
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SHIPYARD : KIANGNAN SHIPYARD
LOCATION : SHANGHAI, CHINA
GEO COORDS: 31-12N 121-29E



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KEY TO ANNOTATIONS ON FIGURE 2

1. Possible "R" Class SS. For a complete view of each of these submarines, see annotation 1, Figure 3.
2. KAIBOKAN I Class PF hull. For a complete view of this hull see annotation 2, Figure 3.
3. Twelve unidentified probable fishing trawlers (LOA's range approx from  These units are of engine aft configuration.

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KIANGNAN SHIPYARD
SHANGHAI, CHINA
31-12N 121-29E



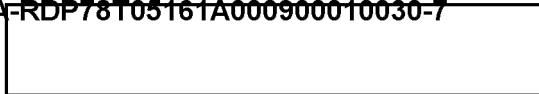
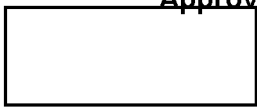
FIGURE 2

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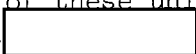
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SHIPYARD : KIANGNAN SHIPYARD
LOCATION : SHANGHAI, CHINA
GEO COORDS: 31-12N 121-29E

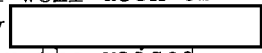
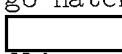


KEY TO ANNOTATIONS ON FIGURE 3

1. Two possible "R" Class SS (visible waterline length approx 250'). These submarines, located at the fitting-out wharf, appear to have faint elliptical images that equate proportionality to the snorked induction housing seen on "R" Class submarines in small format photography. Similarities in the "W" Class and "R" Class submarines' overhead profiles require exceptional image quality to positively identify a unit as "R" Class; in addition, optimum shadow factor is necessary. Image quality is not sufficient for positive identification of these units as "R" Class submarines on this mission. See annotation 8, 


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2. KAIBOKAN I Class PF (LOA approx 220'). This unit is apparently being scrapped. All topside superstructure and approximately two-thirds of the main deck forward of the hull line break have been removed.

3. Unidentified possible merchant ship. (LOA approx 215'). The configuration of this vessel indicates that the design function may not be that of a cargo transport. This ship has a high bridge positioned amidships and a long block superstructure which extends abaft the bridge to a position nearly 20 feet from the stern. The forward well deck of this ship has a small cargo hatch measuring approximately . A circular opening about  in diameter is located on the raised forecastle. No cargo handling equipment or hatches are visible aft of the bridge.

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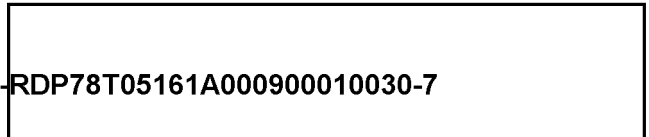
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4. Six unidentified fishing boats under construction (LOA of each approx 
5. "W/R" Class SS (length from stern to leading edge of shed covering bow is approx 255'). This unit appears to be near completion although scaffolding is still in place around the hull and a small weather shed is positioned over

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the bow. A shadow from a crane falls across the sail on this ship precluding further differentiation as to its Class. An "R" Class SS was identified on this way on [redacted] (See annotation 4, CIA/PIR-7014/65.)

6. Possible "R" Class SS (visible length of submarine hull beneath screens approx 250').

Proportions obtained of the possible snorkel induction housing shadow and sail position equate to "R" Class ground photography. The construction status of this unit cannot be determined because of a light mesh-like screen placed over the hull. Scaffolding is visible beneath screens surrounding the hull. The screen appears to be suspended by a light framework barely visible through the mesh-like covering. A probable canvas-covered weather shed is positioned over the forward end of the sail. The probable canvas weather screens present a much whiter, more opaque appearance than does the suspect mesh-type screening in place over this vessel. A small portion of the stern appears to protrude from under the screening. See annotation 7, [redacted]

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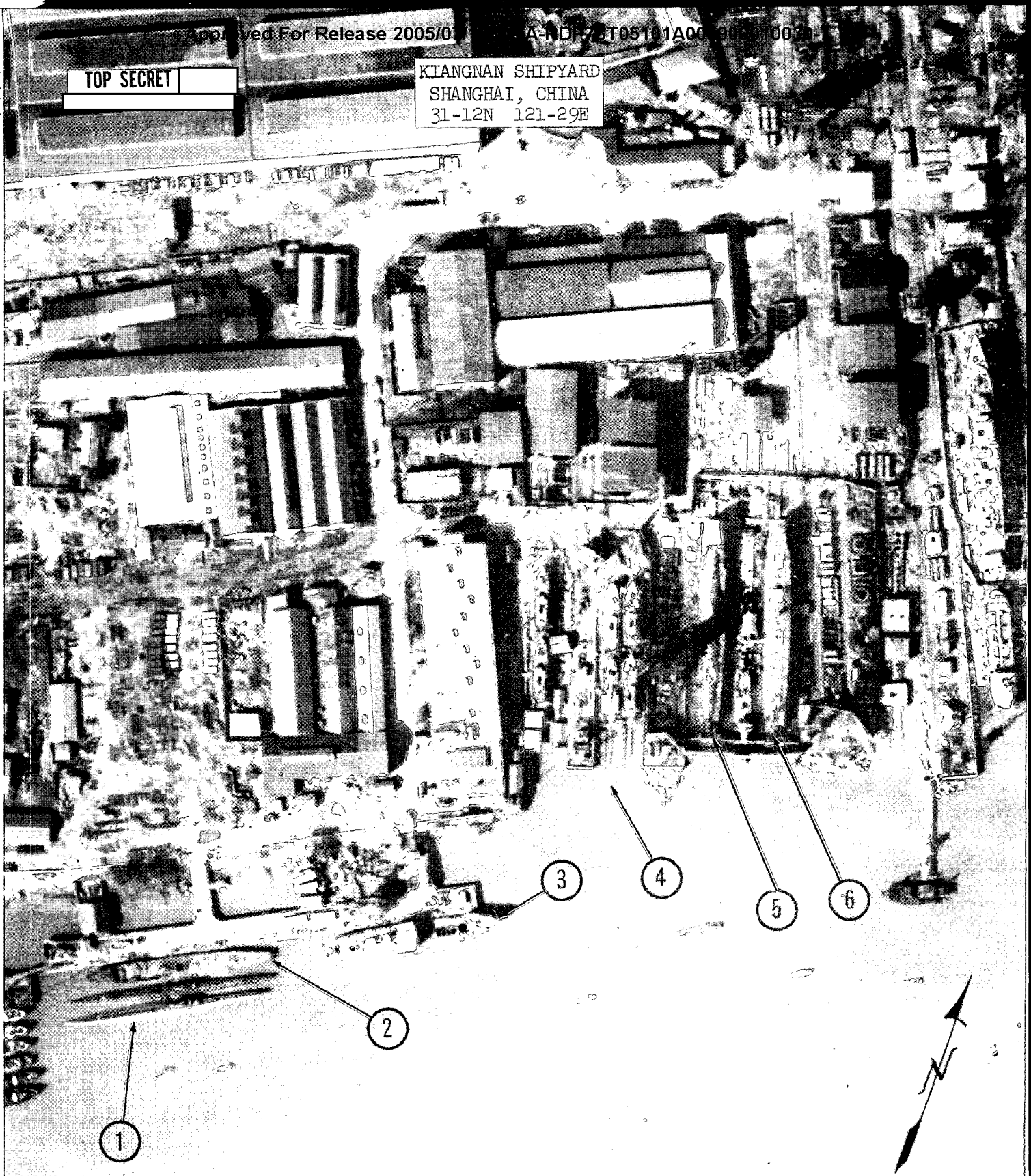
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KIANGNAN SHIPYARD
SHANGHAI, CHINA
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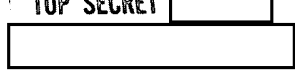
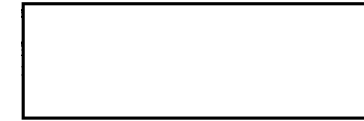


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FIGURE 3

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SHIPYARD : KIANGNAN SHIPYARD
LOCATION : SHANGHAI, CHINA
GEO COORDS: 31-12N 121-29E



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KEY TO ANNOTATIONS ON FIGURE 4

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- 1. RIGA Class DE hull (LOA approx [redacted])
This unit was first observed on this building way in [redacted] On [redacted] the hull and superstructure appear intact, although the mast, stack, all armament, and topside electronic equipment apparently have been removed. Weather sheds are located on the fantail and over the after portion of the superstructure. Four possible cylindrical objects measuring approximately 20 by 5 feet are lying alongside the hull of the RIGA and are within the security screens. The purpose of this activity cannot be determined from this coverage (see annotation 6, [redacted])

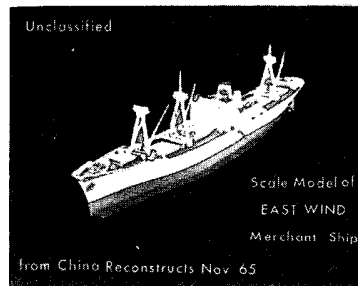
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- 2. Unidentified AO (LOA approx [redacted])
- 3. Probable EAST WIND Class cargo ship (LOA approx 535'). See annotation 5, [redacted] and Figure 4A inset.

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- 4. Unidentified river barge (LOA approx [redacted])
- 5. Unidentified passenger ferry (LOA approx [redacted])
- 6. Probable suction dredge (LOA approx [redacted])
A similar unit is under construction (annotation 11). These units are similar to the river dredger pictured in CIA 1065744.
- 7. Floating crane (LOA approx 120').
- 8. Possible CASTLE Class OPF (LOA approx [redacted])
This vessel equates to the [redacted] CASTLE PF when comparing length/beam measurements and by proportioning the identifiable remaining top-

FIGURE 4A

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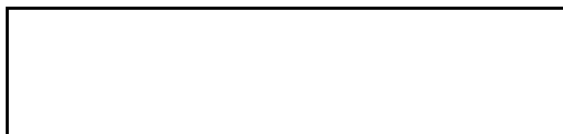
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side structure on this unit to views of CASTLE units. Positive identification of this vessel is precluded because of low contrast imagery, and extensive removal of topside equipment, structure and armament. The nature of the work being performed cannot be ascertained from this photography.

9. Unidentified passenger ferry (LOA approx [REDACTED])
10. "S-1" Class SS (visible length approx [REDACTED] See annotation 3, [REDACTED])
11. Unidentified probable suction dredge under construction. (LOA approx [REDACTED]
This dredge appears to be similar to the unit pictured at annotation 6.

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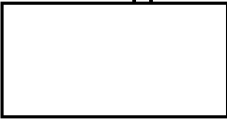
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FIGURE 4

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

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SHIPYARD : KIANGNAN SHIPYARD
LOCATION : SHANGHAI, CHINA
GEO COORDS: 31-12N 121-29E

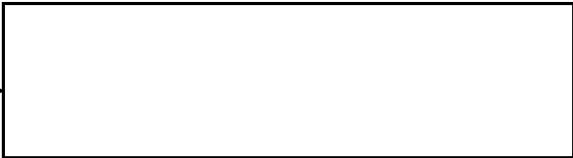


KEY TO ANNOTATIONS ON FIGURE 5

- 1. BATHURST Class OPF (LOA approx  25X1
- 2. Unidentified river barge (LOA approx 200').
- 3. Unidentified tanker (LOA approx  25X1
This vessel cannot be equated to listed Chicom vessels of this length and type.
- 4. Ex-US METTAWEE Class AO (LOA approx  25X1
- 5. Unidentified railroad ferry (LOA approx 360').
- 6. Probable "W" Class SS (visible waterline length approx 245').
The outer hull plates appear to have been removed. A small camel is moored inboard of the submarine. The nature of the repairs could not be determined.

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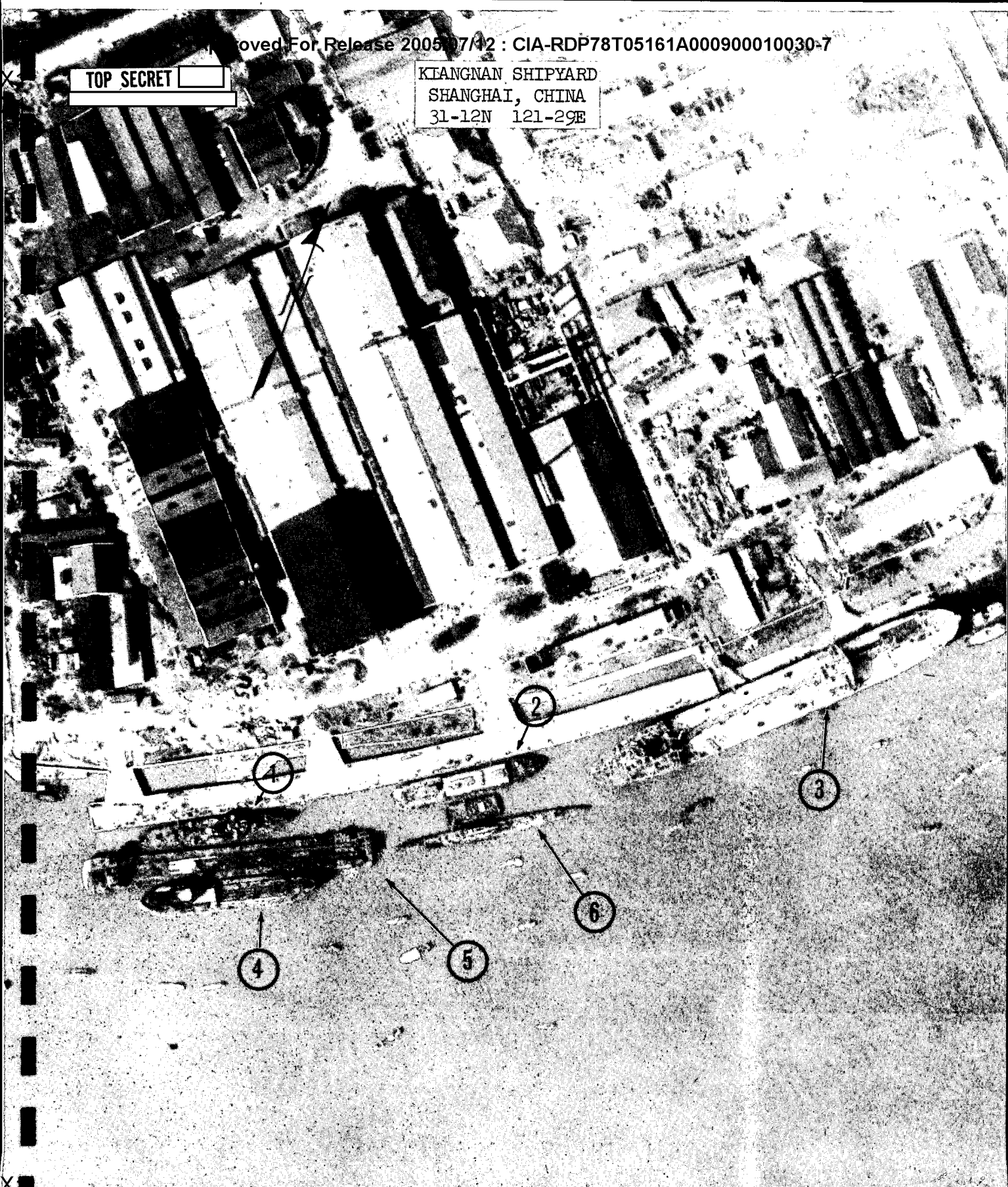


FIGURE 5

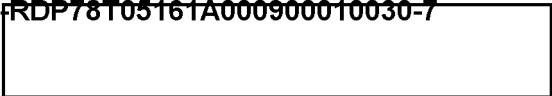
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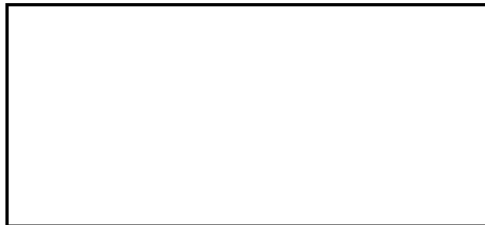
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SHIPYARD : KIANGNAN SHIPYARD
LOCATION : SHANGHAI, CHINA
GEO COORDS: 31-12N 121-29E



NOTE: Figure 6 is included to provide an orientation for approximately twenty-one cylindrical objects and probable submarine hull sections at the Kiangnan Shipyard.

SELECTED ANNOTATIONS ON FIGURE 6

8. Cylindrical object positioned upon its horizontal axis. This item measures approximately [redacted] in length.

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9. Cylindrical object at head of the approximately 540 foot long building/repair way. This cylinder appears to be slightly tapered and has a slight rounding to the smaller diameter (the end toward the foot of the way). The longest diameter measures approximately [redacted] while the smaller diameter measures approximately [redacted]. The overall length is [redacted]. The cylinder appears to be scaffolded along its larger diameter. Along the downriver side of the cylinder a small ramp leads from the floor of the building way to the staging.

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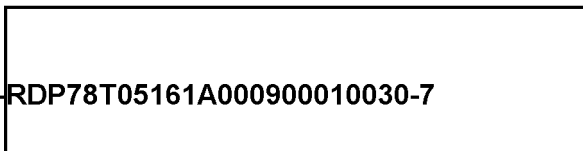
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12. Cylindrical object positioned upon its horizontal axis measuring approximately [redacted] in length. This item has an appearance similar to the object at annotation 8, Figure 6.

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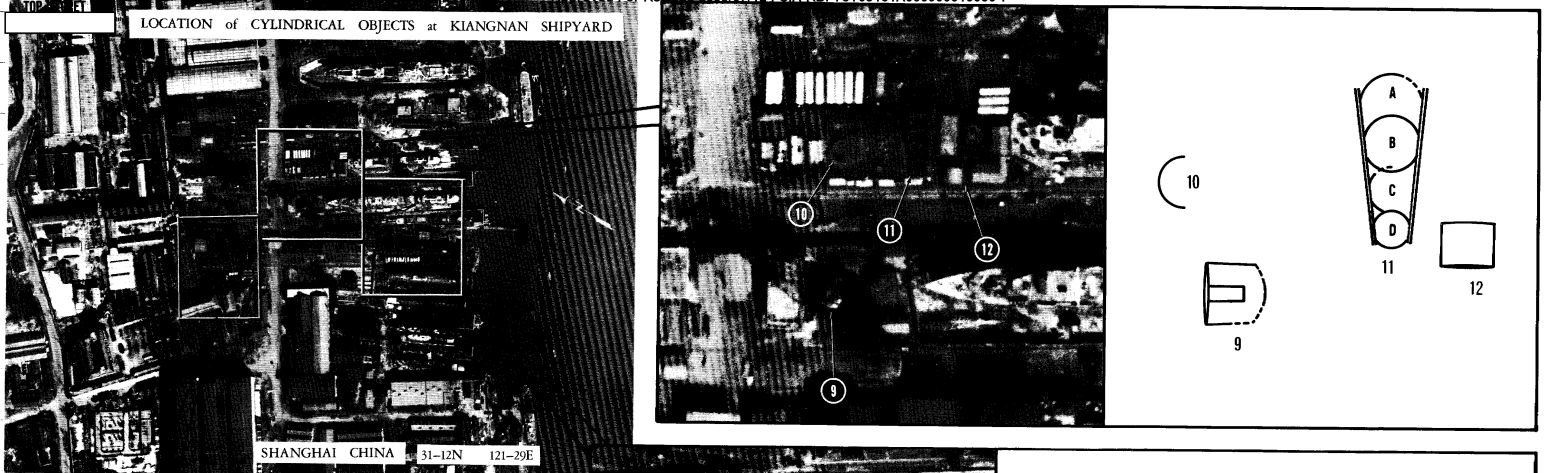


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REFERENCES



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REQUIREMENT

C-RR-82,538

CIA/IAD PROJECT

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