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SUMMARY

PHOTOGRAPHIC INTERPRETATION REPORT

SOUTHEAST ASIA ACTIVITY REPORT

25X1C

SPECIAL SUMMARY ON SELECTED PORTS, TRANSSHIPMENT POINTS, AND RIVER CRAFT FACILITIES NORTH VIETNAM

NPIC/R-15/67
JANUARY 1967

SUMMARY NO 34

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PREFACE

This report is a summary of information on selected ports, transshipment points, and river craft facilities of North Vietnam. This information has been developed by NPIC over a period of time and is disseminated as a special feature article for the Southeast Asia Activity Report, Selected Transportation and Infiltration Compendium.

Annotated maps of varying scales have been included to assist the reader in locating the items.

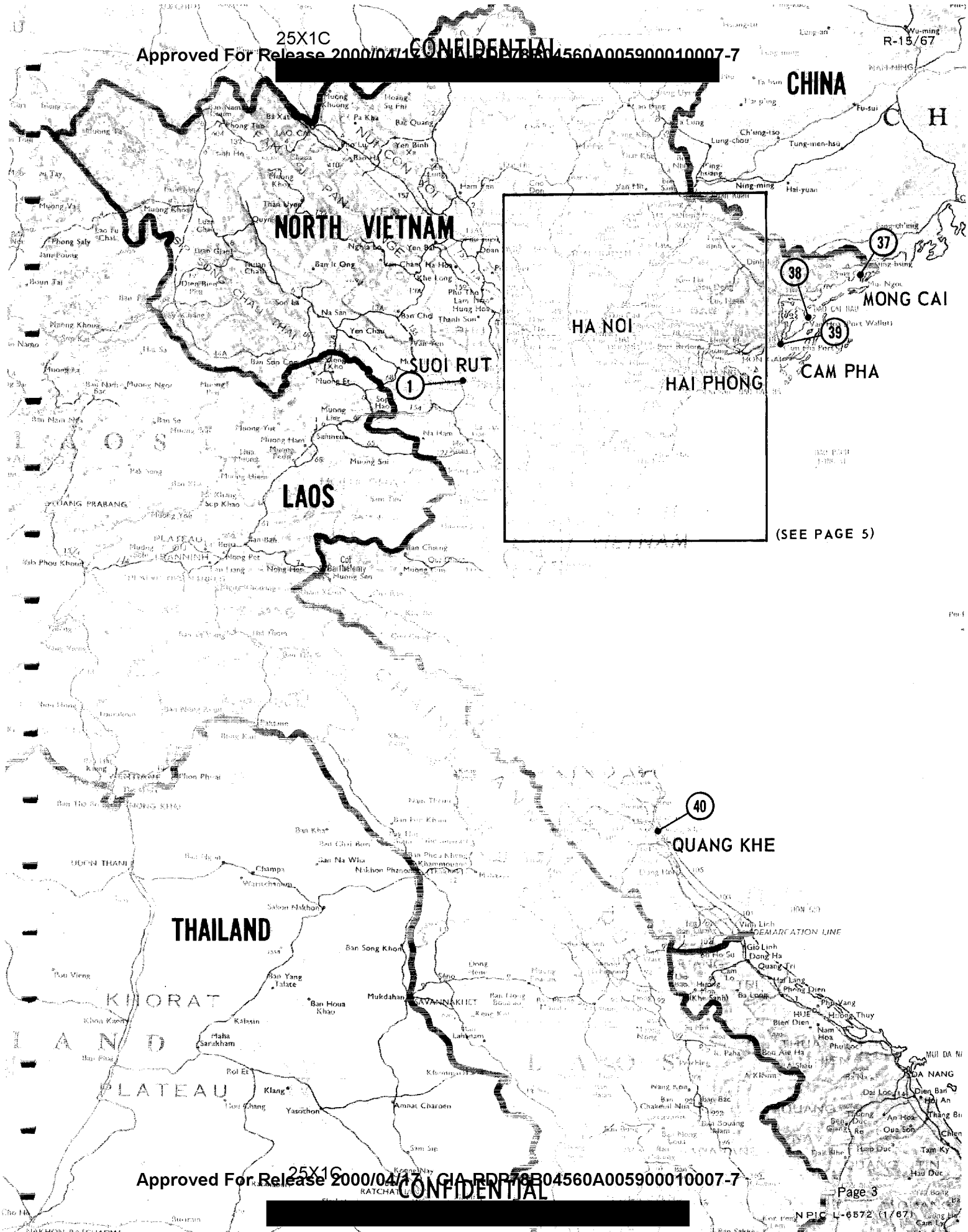
A brief report introduction, contents listing, and a basic locator chart and chart inset are provided followed by a brief description, locator map, and annotated photograph for each installation.

Selected Ports, Transshipment Points, and River Craft Facilities of North Vietnam

The extensive network of natural and manmade waterways throughout the lower Red River valley and Hai Phong areas of North Vietnam provides an inexpensive means of internal transportation. The large number of facilities for the construction, support, and utilization of river craft indicates the dependency of North Vietnam's wartime economy on these inland waterways. The dispersal of the transshipment points throughout central North Vietnam primarily reflects current specific needs; however, these facilities could provide alternates to the maritime ports, through the use of lighters, and therefore make disruption of shipping to North Vietnam extremely difficult.

With the exception of the major ports of Hon Gai and Cam Pha, all facilities in this report are associated with river traffic and are representative of the many sizes and functions of such installations. In the following contents listing, each installation is categorized as a port (P), transshipment point (T), or river craft facility (R). Additional installations will periodically be included in this report as appropriate.

R-15/67



NPIC L-6572 (1/67)

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[redacted]

R-15/67

25X1A

25X1A

21. Hon Gai Naval Base and Shipyard, Bai Chay (BE No [redacted] R 46
22. Hon Gai Port Facilities (BE No [redacted] 48
23. Ha Tou Boat Repair Facility ([redacted] R 50
24. Ap Da Chong Barge Yard (BE No [redacted] 52 25X1A
25. Pho Cat Ba Coastal Transshipment Point (BE No [redacted]) T 54
26. Kien An Shipyard, Phuong Chu (BE N [redacted] 56 25X1A
27. Hai Phong Shipyard No. 4 Dancette [redacted] R 58
28. Hai Phong Ship Repair Yard No. 1 ([redacted] R 58
29. Hai Phong Ship Repair Yard No. 3 Sauvage [redacted]) R 58 25X1A
30. Hai Phong Ship Repair Yard No. 2 Sacric ([redacted] R 58
31. Hai Phong Shipyard Vinh Khe (BE [redacted] R 58 25X1A
32. Hai Phong Shipyard West (BE No ([redacted] 58 25X1A
33. Phu Ly Transshipment Point, Song Day (BE No [redacted] T 66
34. Thai Binh Boat Yard (BE No [redacted] 68
35. Ninh Binh Ship Repair Yard [redacted] R 70 25X1A
36. Yen Phuc Barge Yard (BE No [redacted] 72
37. Nam Thon Coastal Transshipment Point [redacted]) T 74 25X1A
38. Port Wallut Naval Base and Shipyard ([redacted] R,T 76 25X1A
39. Cam Pha Port Facilities (BE No [redacted] P 78
40. Quang Khe Boat Yard R 80

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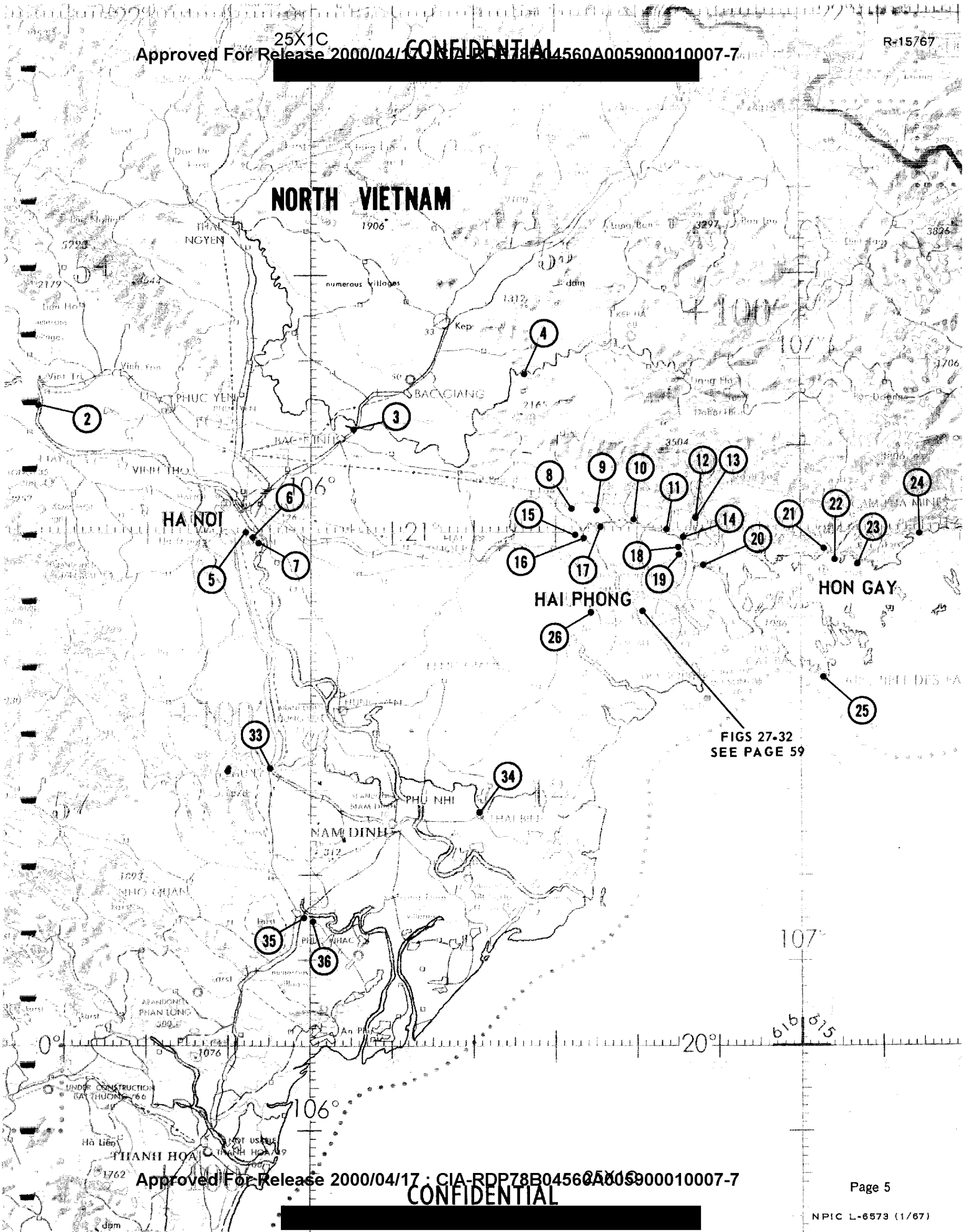
NORTH VIETNAM
HA NOI
HAI PHONG
HON GAY
FIGS 27-32
SEE PAGE 59
PHUC YEN
BAC GIANG
VINH THO
PHU NHI
NAM DINH
THANH HOA
numerous villages
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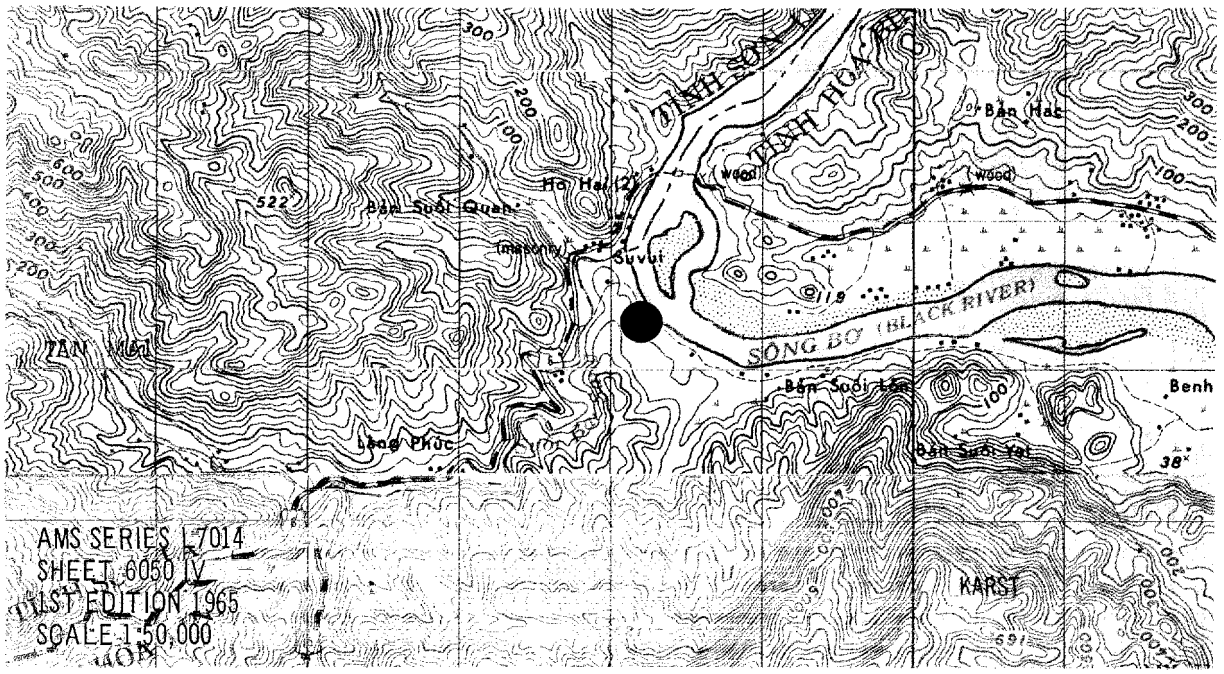
25X1A

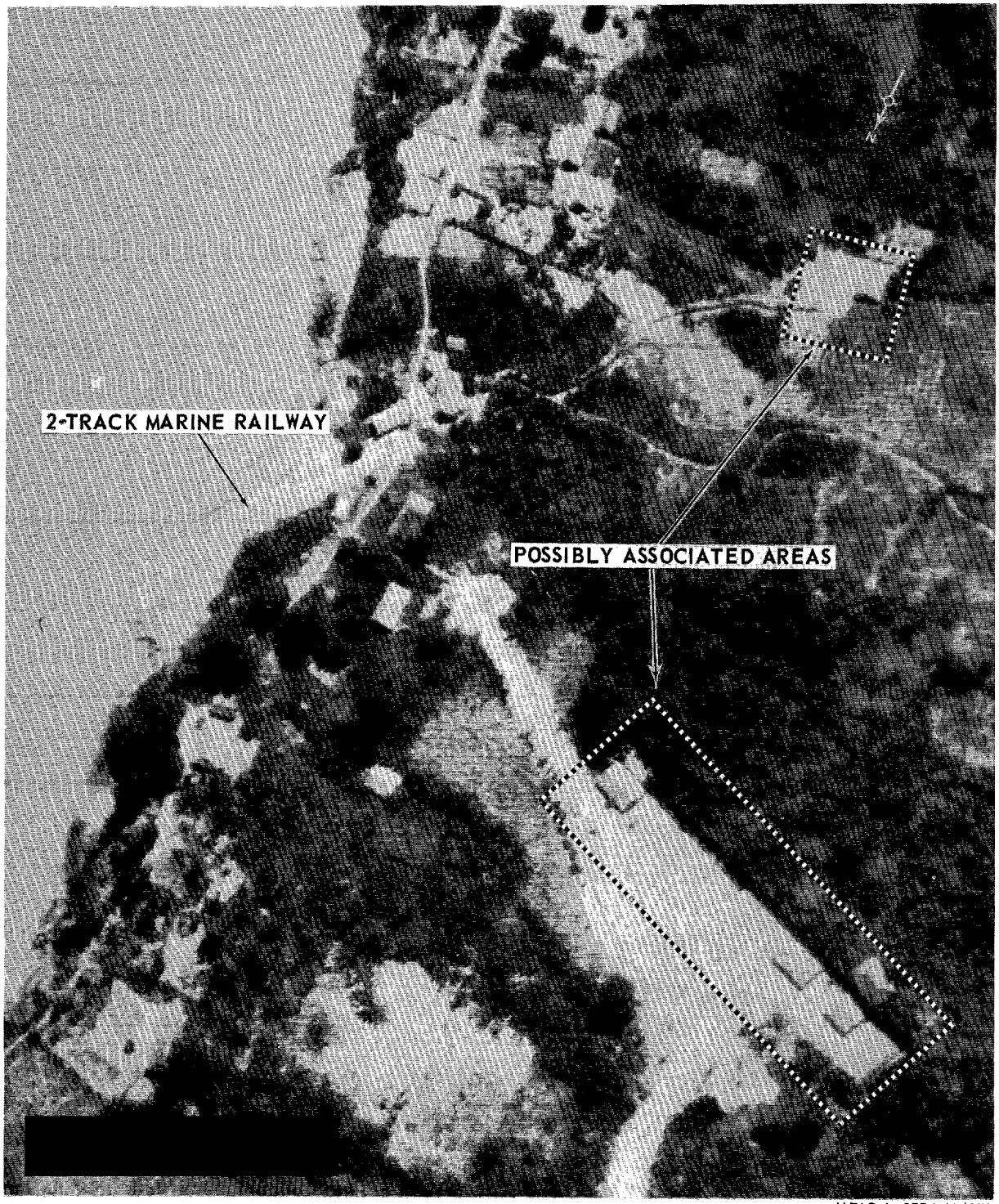
1. Suoi Rut Boat Repair Facility, North Vietnam (BE No [redacted]

Suoi Rut Boat Repair Facility, located on the west bank of the Black River 0.3 nm south-southeast of Su Vui at UTM WH082954, consists of a double-track marine railway and several small support buildings. Two possibly associated areas under development are adjacent to the facility. The first contains an excavation of a type for a building foundation; the second area has been leveled and a cut has been made in a hillside for a new motorable road extending to Route 6.

[redacted]

25X1D





NPIC L-6574 (1/67)

25X1D *FIGURE 1. SUOI RUT BOAT REPAIR FACILITY, NORTH VIETNAM*

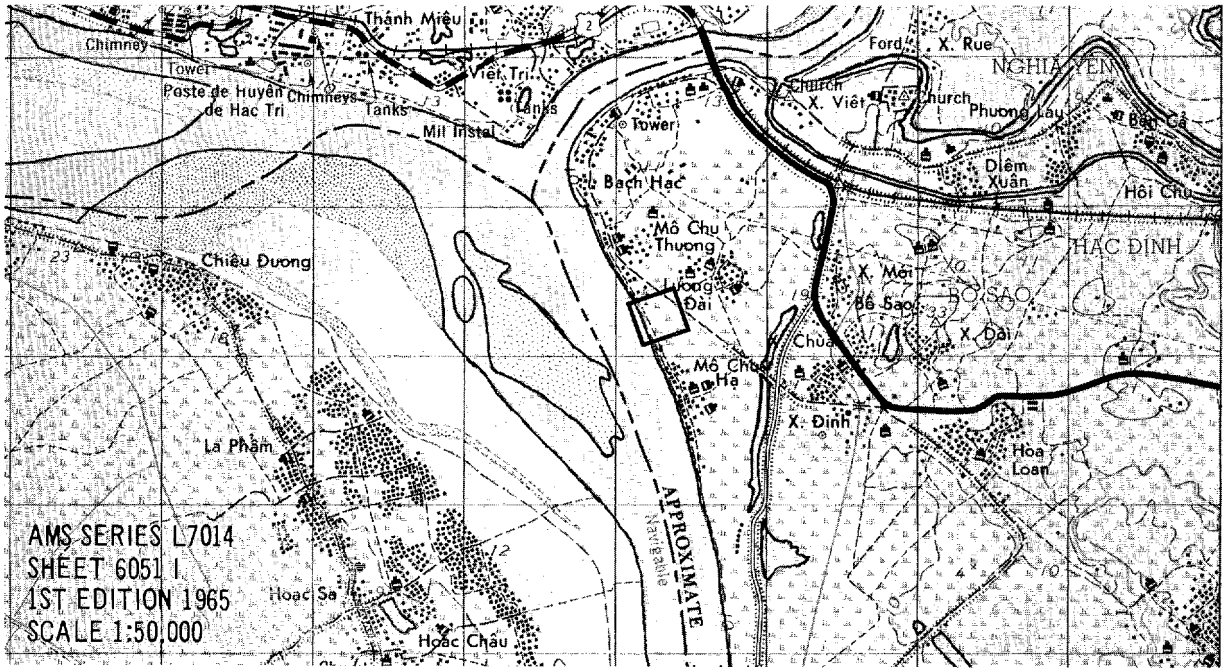
25X1A

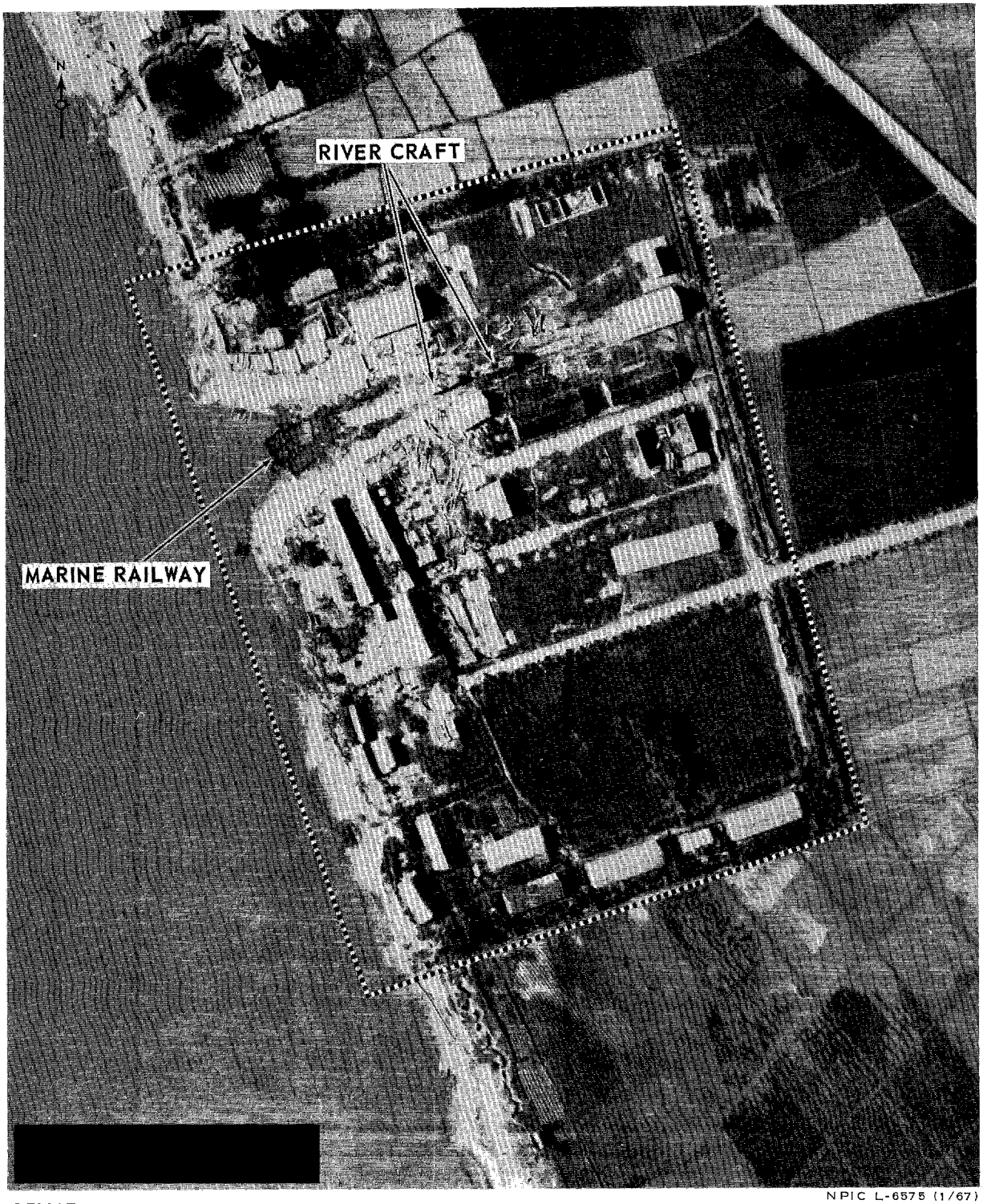
2. Hoa Loan Boat Yard, North Vietnam [redacted]

Hoa Loan Boat Yard, located on the Red River 0.3 nm north-northwest of Mo Chu Ha at UTM WJ462532, is a secured area consisting of a single marine railway and 27 buildings, including a covered winch house, several probable shops, and four probable barracks.

25X1D

[redacted]





NPIC L-6575 (1/67)

25X1D

FIGURE 2. HOA LOAN BOAT YARD, NORTH VIETNAM

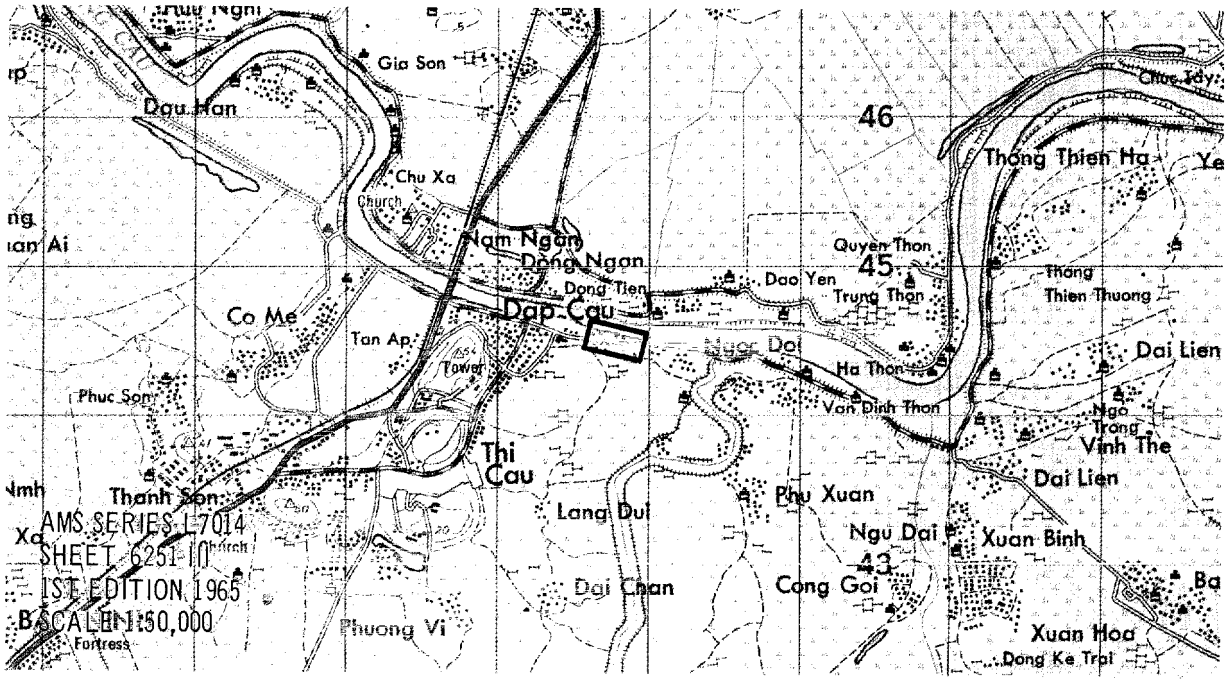
25X1A

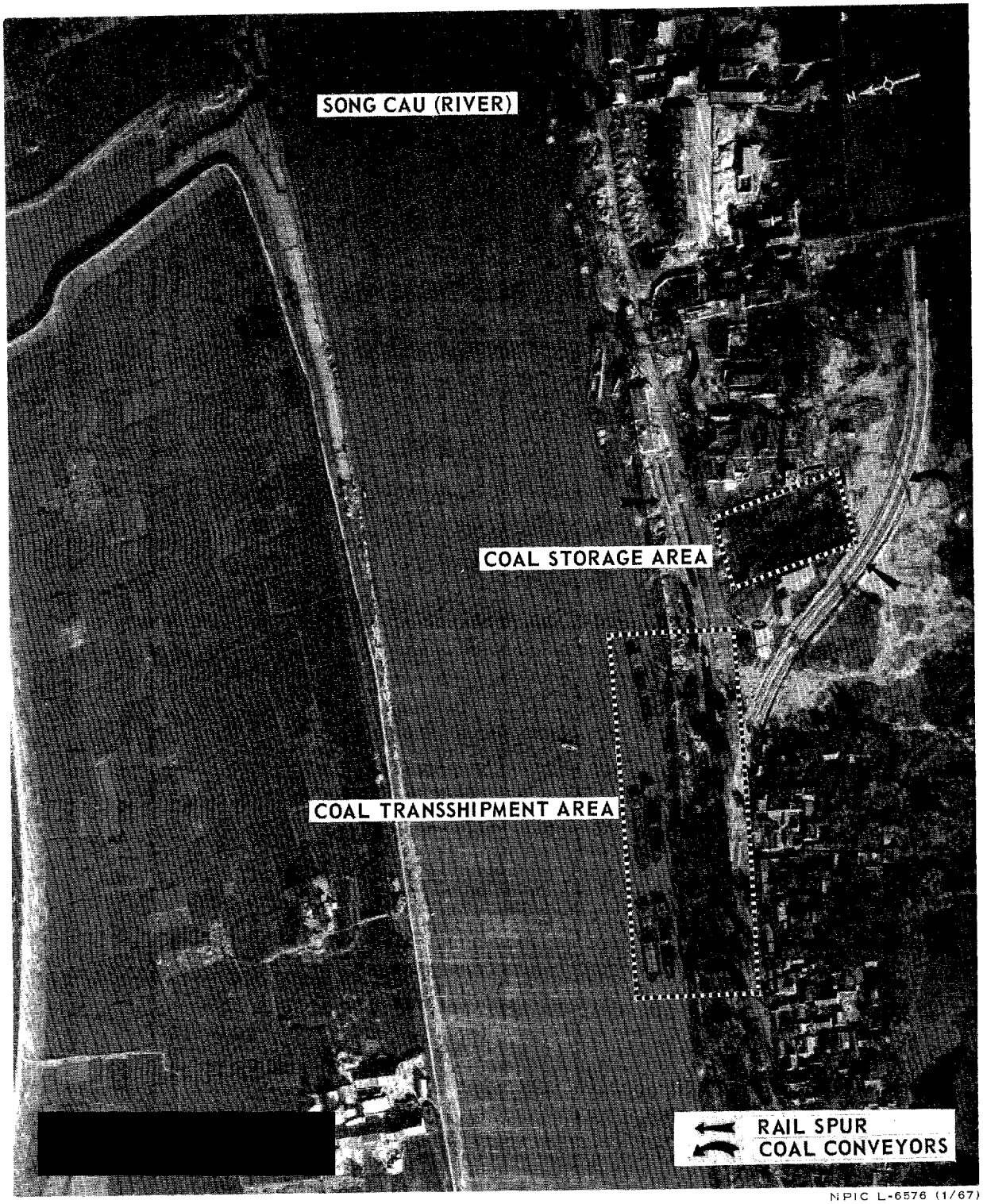
3. Dap Cau Port Facilities East, Song Cau, North Vietnam (BE No [redacted]

Dap Cau Port Facilities East, located on the south bank of the Song Cau (river) at UTM XJ147446 and 18 nm northeast of Ha Noi, is primarily a coal port with facilities to transship from river barge to rail. The port consists of three open storage areas for coal (two shown on Figure 3) and numerous portable conveyors. A rail spur connects the port with the Ha Noi/Ping-hsiang Rail Line.

25X1D

[redacted]





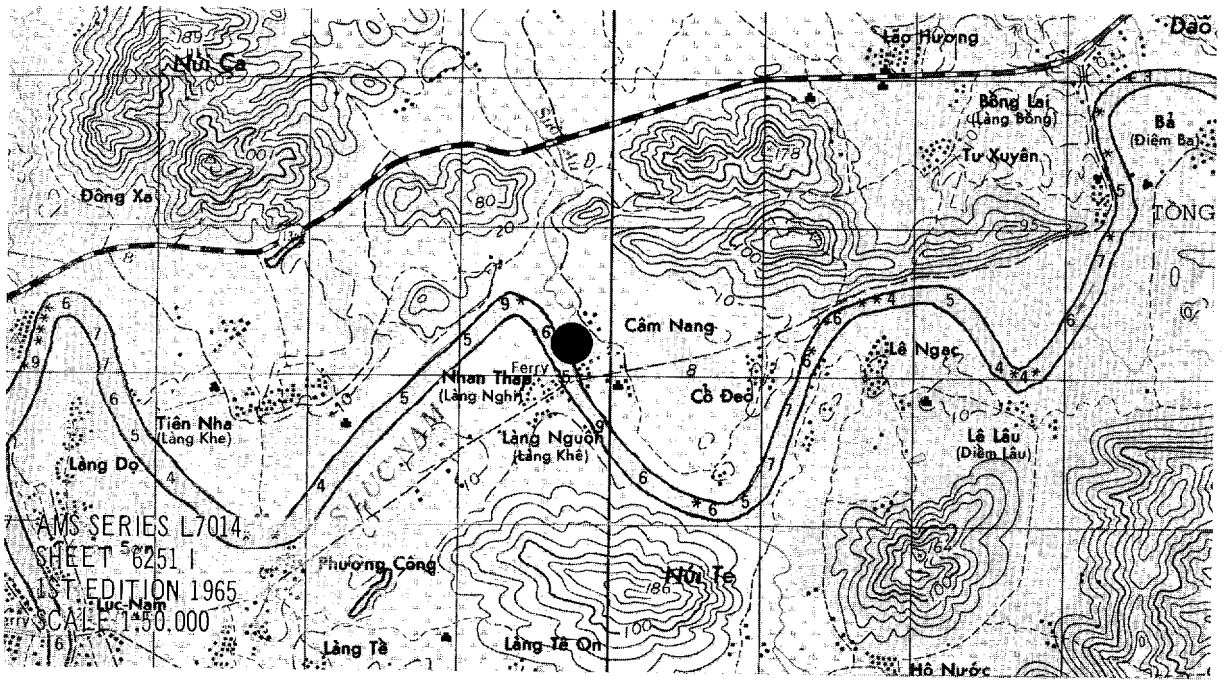
25X1D *FIGURE 3. DAP CAU PORT FACILITIES EAST, SONG CAU (RIVER), NORTH VIETNAM*

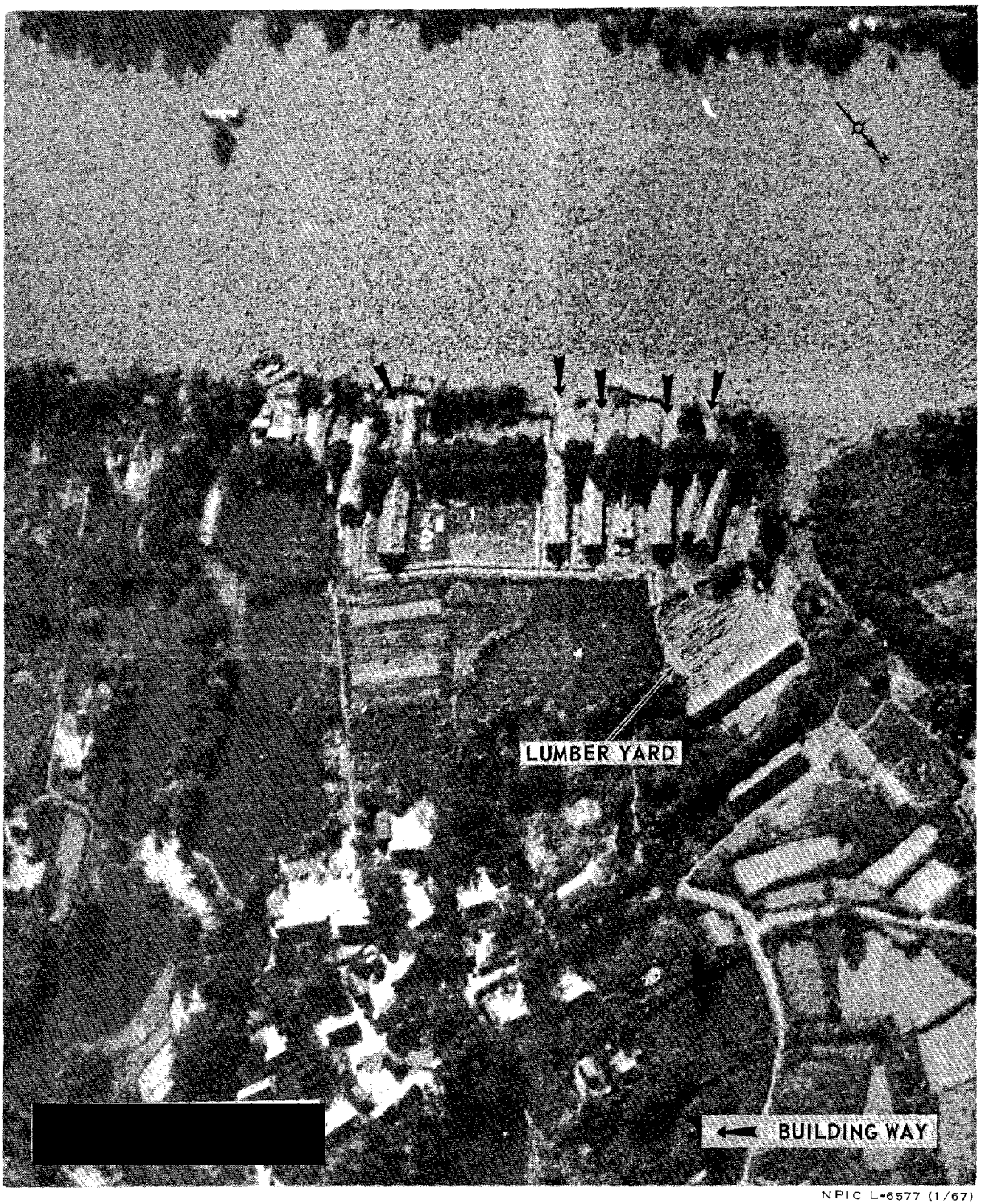
25X1A

4. Tien Nha Boat Yard, North Vietnam [redacted]

Tien Nha Boat Yard, located on the north bank of the Sluc Nam (river) at UTM XJ497572, is a small facility consisting of six building ways, a lumber yard, and nine associated buildings. Photography of [redacted] revealed a river barge and a river sampan moored along the bank, and another river barge on one building way. 25X1D

25X1D [redacted]





NPIC L-6577 (1/67)

25X1D

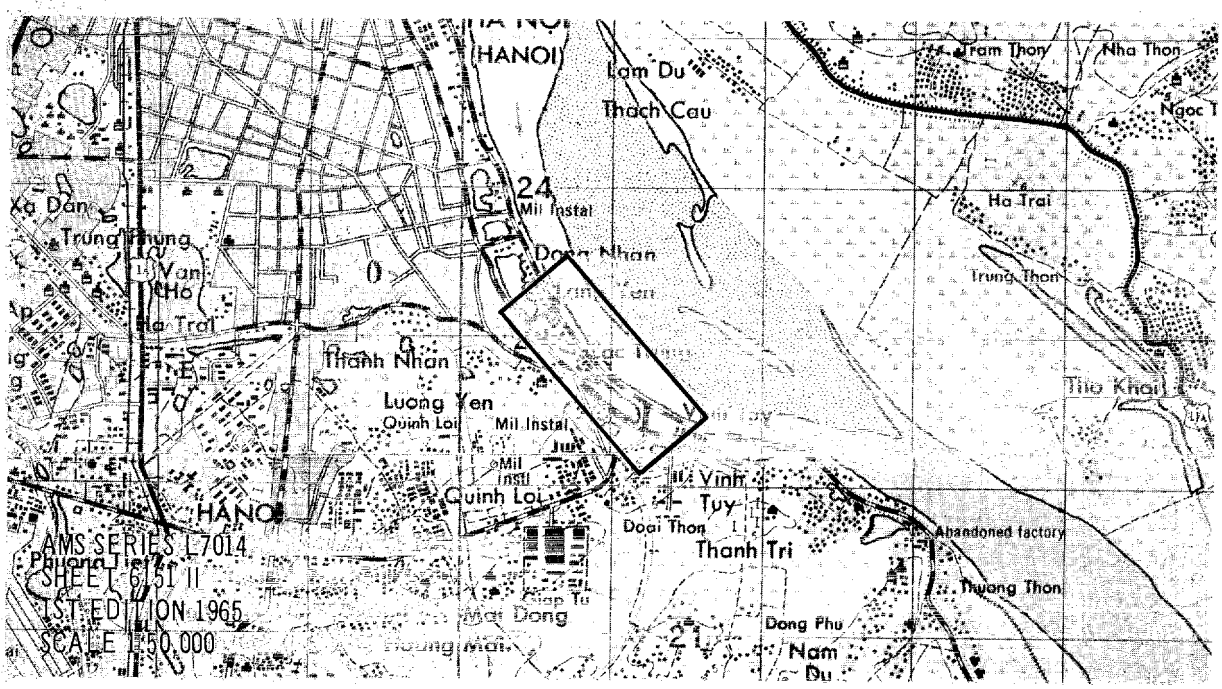
FIGURE 4. TIEN NHA BOAT YARD, NORTH VIETNAM

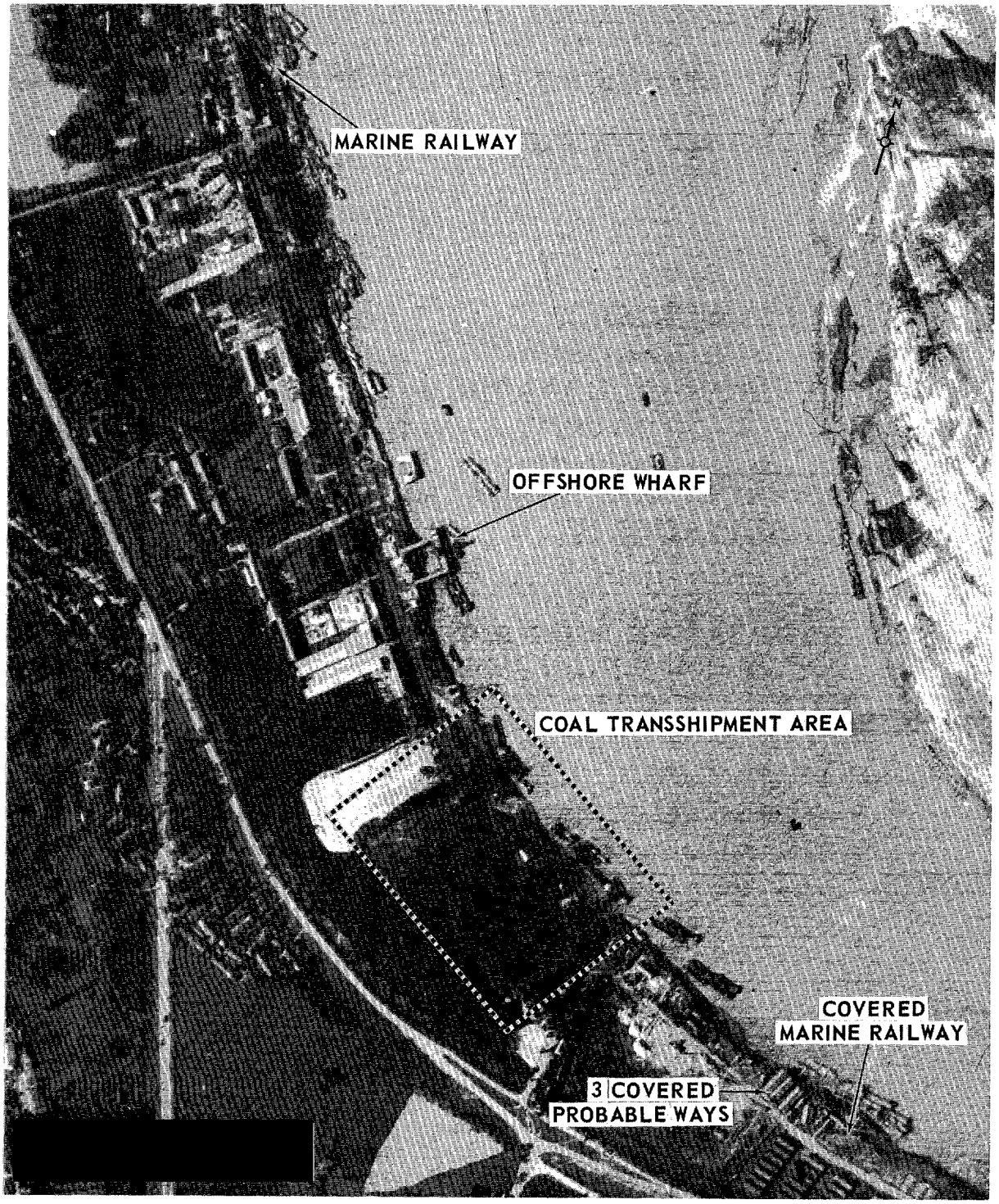
25X1A

5. Ha Noi Port Facilities, Red River, North Vietnam [redacted]

Ha Noi Port Facilities, located on the west bank of the Red River at UTM WJ909229, consists of a marine railway at Lang Yen at UTM WJ906233, an offshore wharf at the main transshipment area, a coal transshipment area immediately south of the offshore wharf, a boat building/repair facility immediately north of Vinh Tuy Storage Area, a covered marine railway, and three covered probable ways. (Only the southern portion of the facilities is shown in Figure 5.)

25X1D [redacted]





[redacted]

NPIC L-6578 (1/67)

25X1D

FIGURE 5. HA NOI PORT FACILITIES, RED RIVER, NORTH VIETNAM

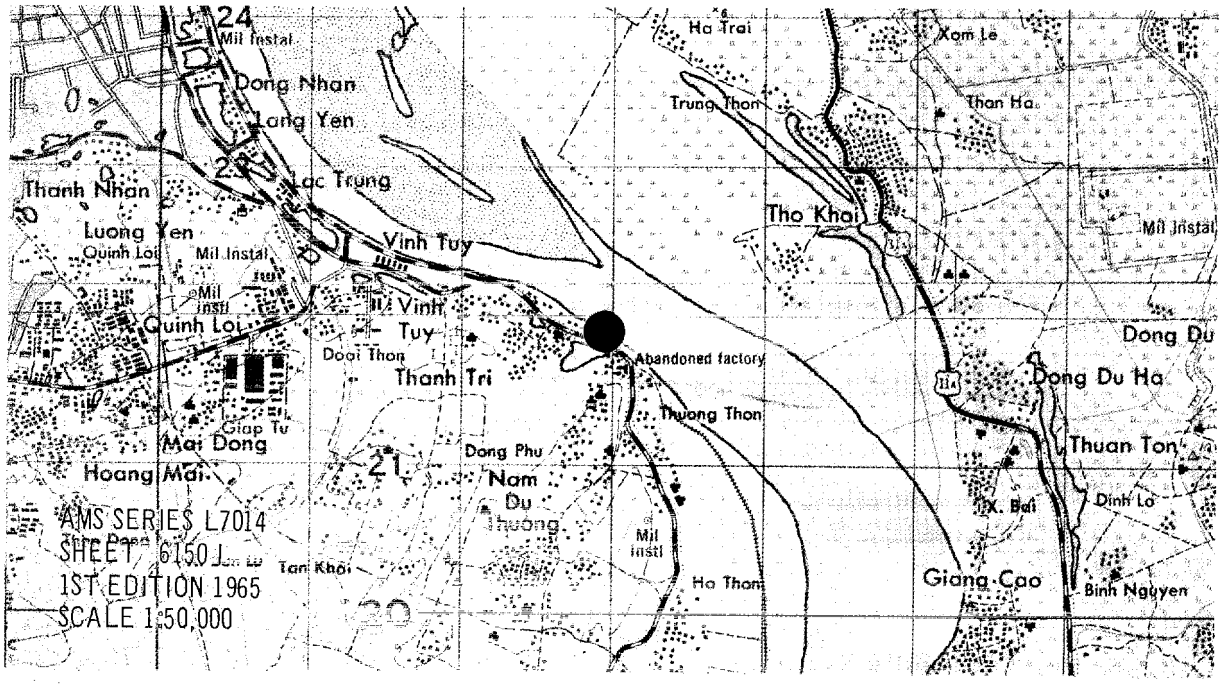
25X1A

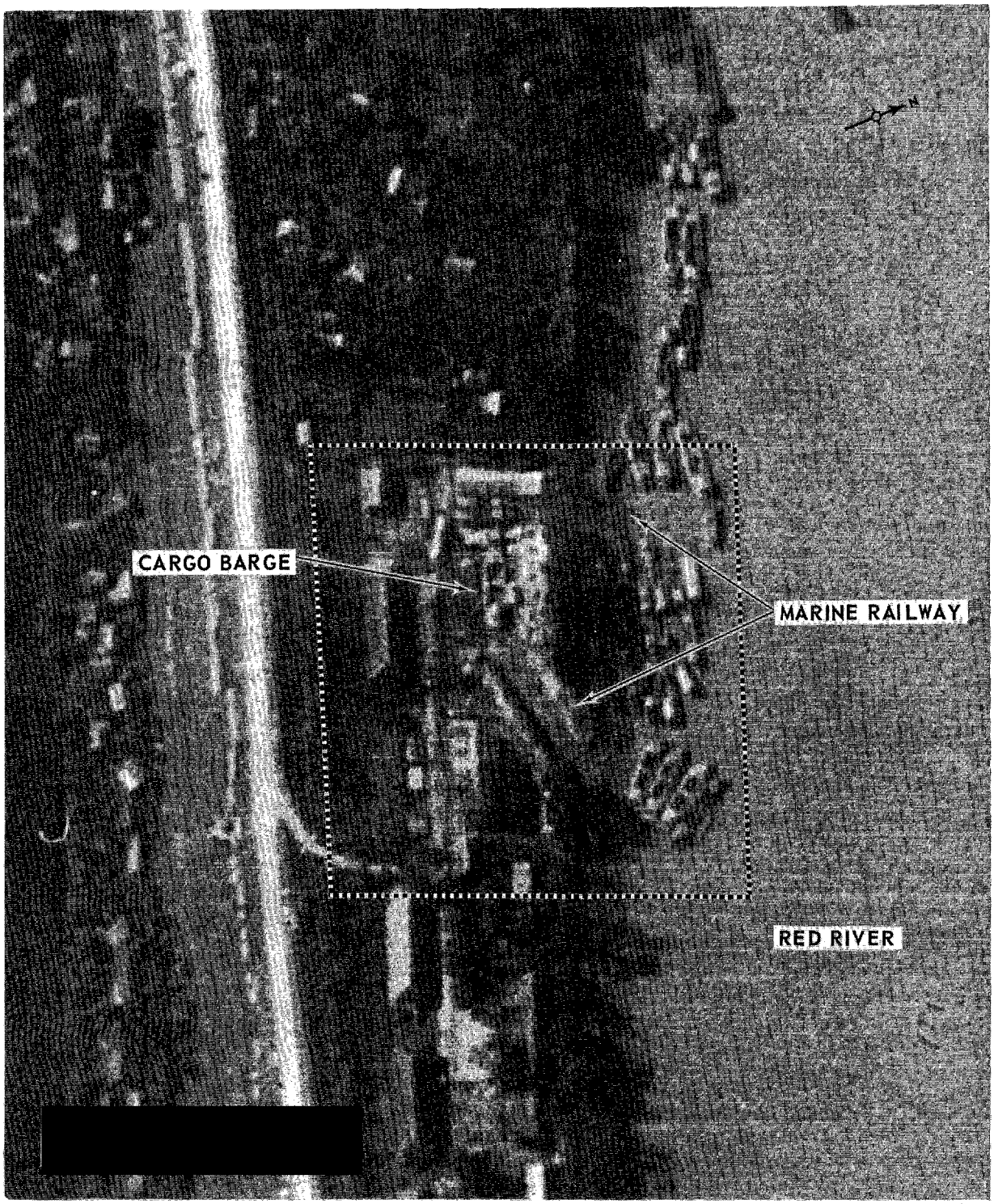
6. Ha Noi Shipyard, Thanh Tri, North Vietnam [redacted]

Ha Noi Shipyard, Thanh Tri, located on the west bank of the Red River at UTM WJ929218, is primarily a river craft-building/repair facility. The yard consists of two marine railways and at least five associated buildings. Photography of [redacted] revealed two small river craft and a large cargo barge on the railways, and numerous barges and river craft moored along the bank.

25X1D

25X1D [redacted]





NPIC L-6577 (1/67)

25X1D

FIGURE 6. HA NOI SHIPYARD, THANH TRI, NORTH VIETNAM

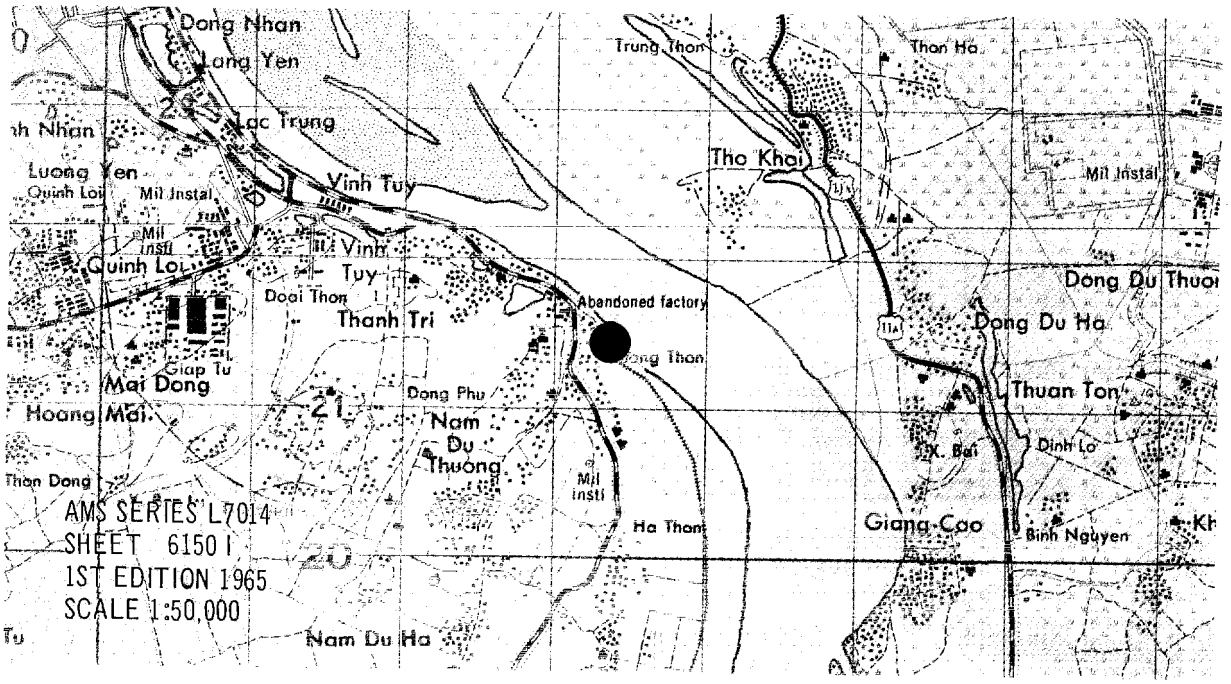
25X1A

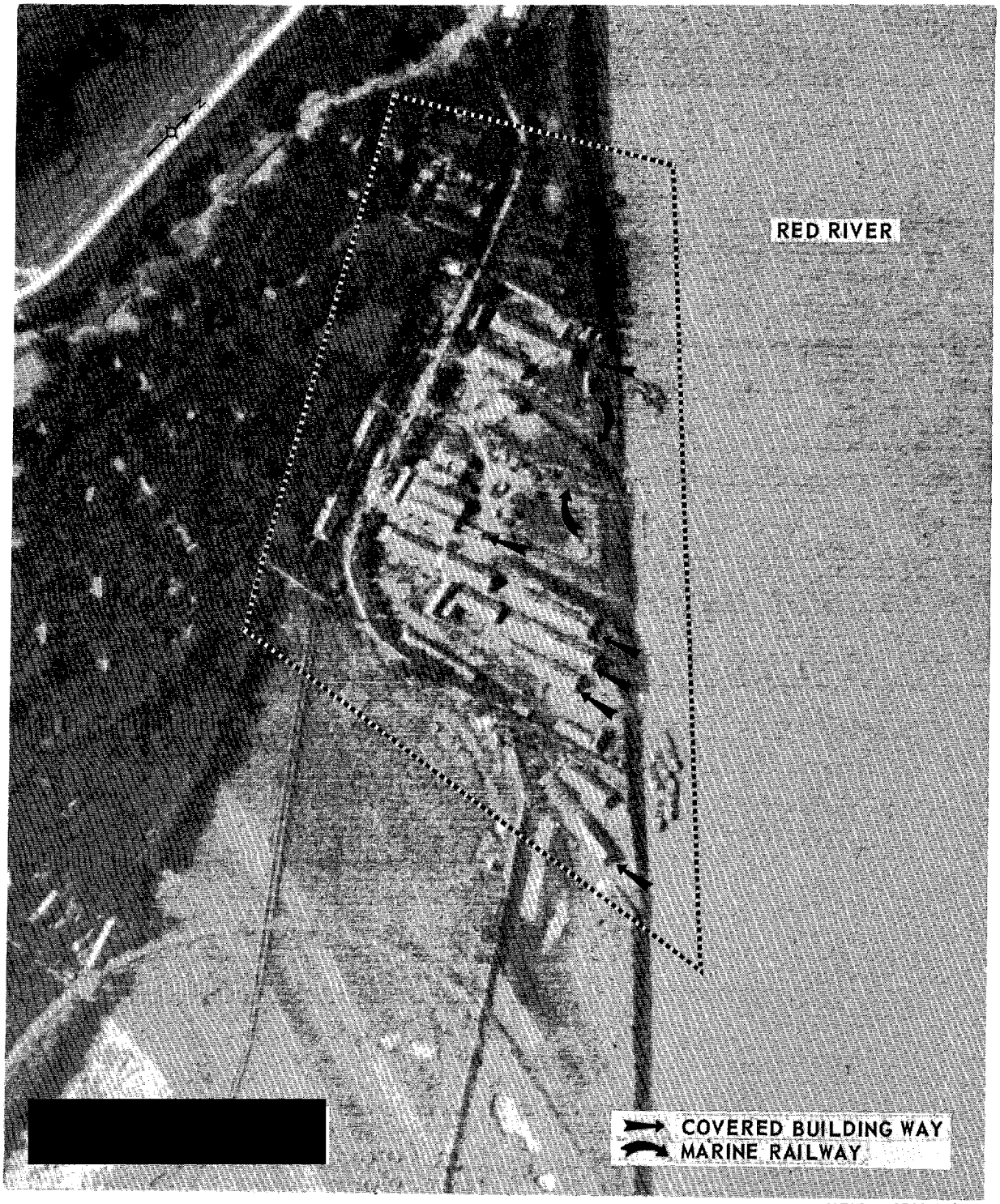
7. Ha Noi Shipyard, Thuong Thon, North Vietnam [redacted]

Ha Noi Shipyard, Thuong Thon, is located on the Red River in Thuong Thon at UTM WJ934214 and 2.2 nm southeast of Ha Noi. This boat-building facility consists of six covered building ways, two marine railways, and 19 support buildings. The yard is possibly producing cargo barges of the type shown along the river bank in Figure 7.

25X1D

[redacted]





[redacted]

NPIC L-6580 (1/67)

25X1D

FIGURE 7. HA NOI SHIPYARD, THUONG THON, NORTH VIETNAM

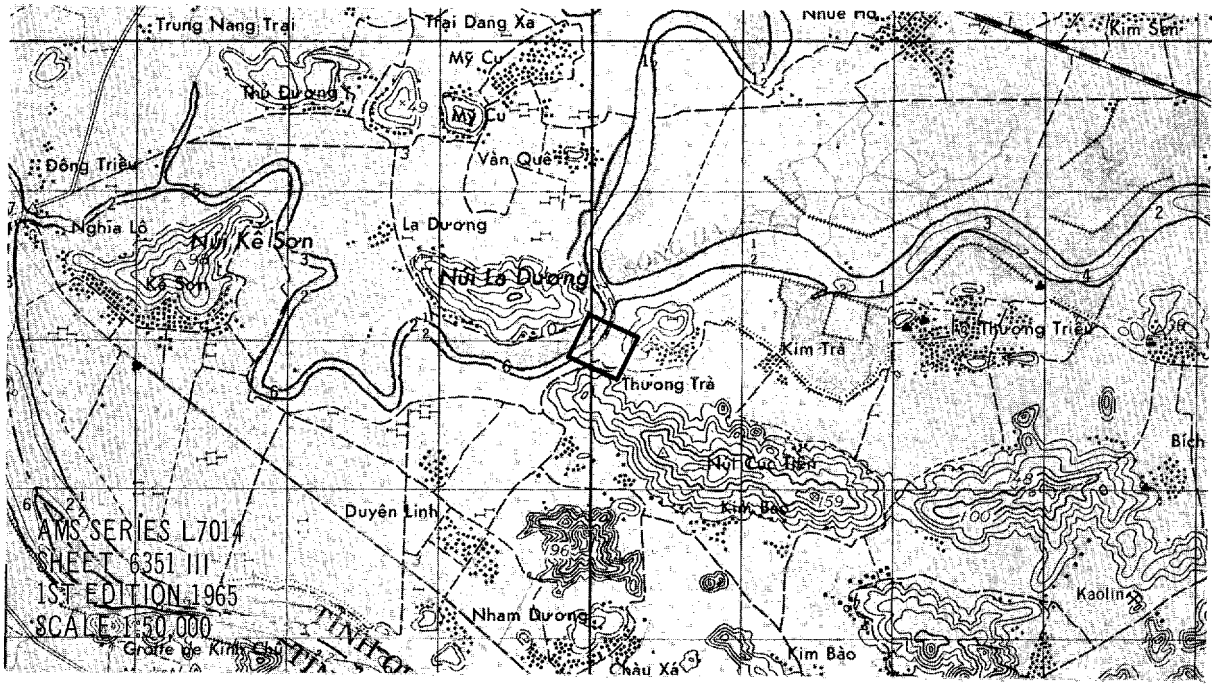
25X1A

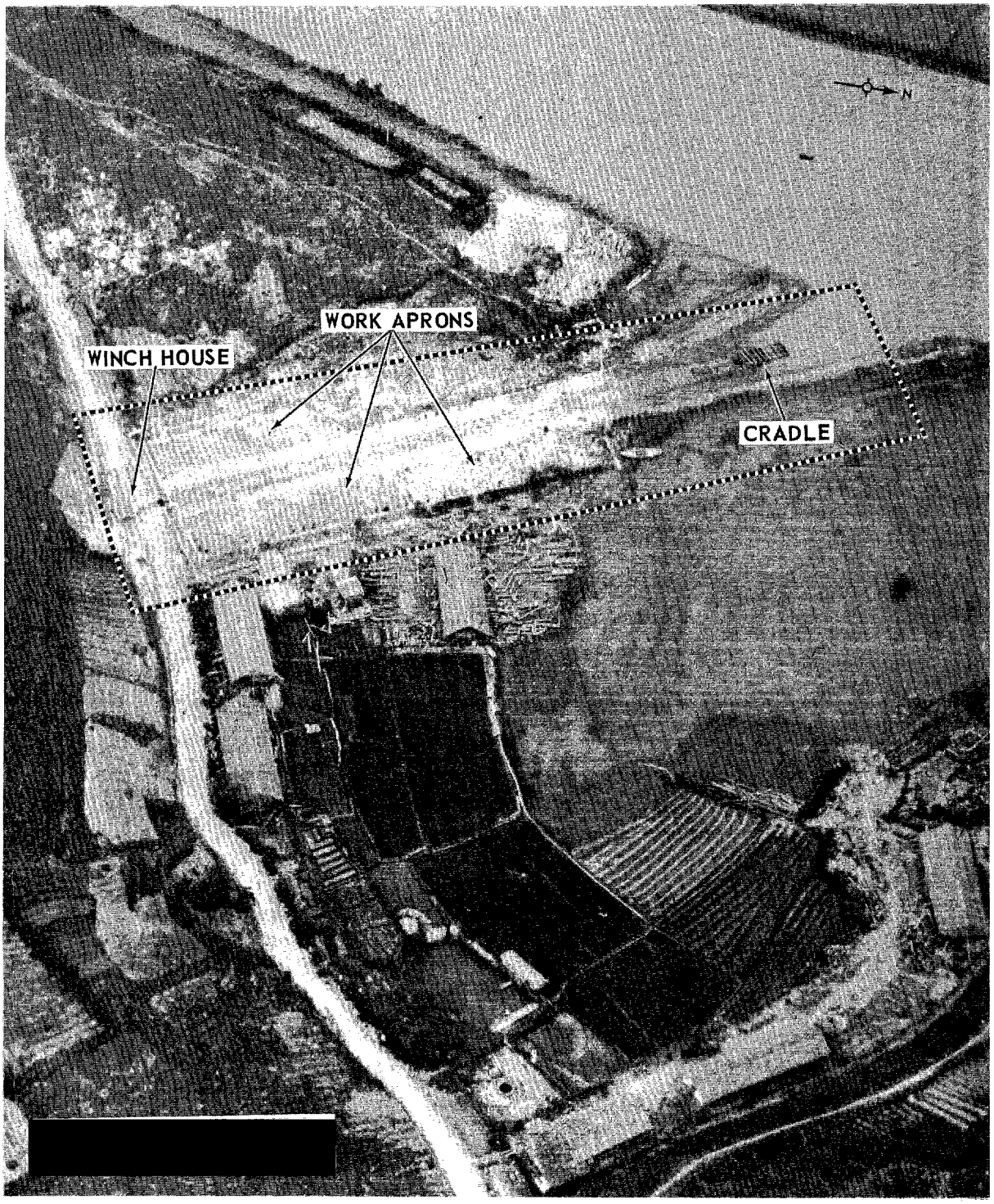
8. Thuong Tra Boat Yard, North Vietnam [redacted]

Thuong Tra Boat Yard, located on a small stream 0.2 nm west of the village at UTM XJ601279, consists of a single two-track marine railway capable of handling a large river barge, three work aprons at the head of the railway, and a lumber yard and three support buildings immediately east of the railway.

25X1D

[redacted]





NPIC L-6581 (1/67)

25X1D

FIGURE 8. THUONG TRA BOAT YARD, NORTH VIETNAM

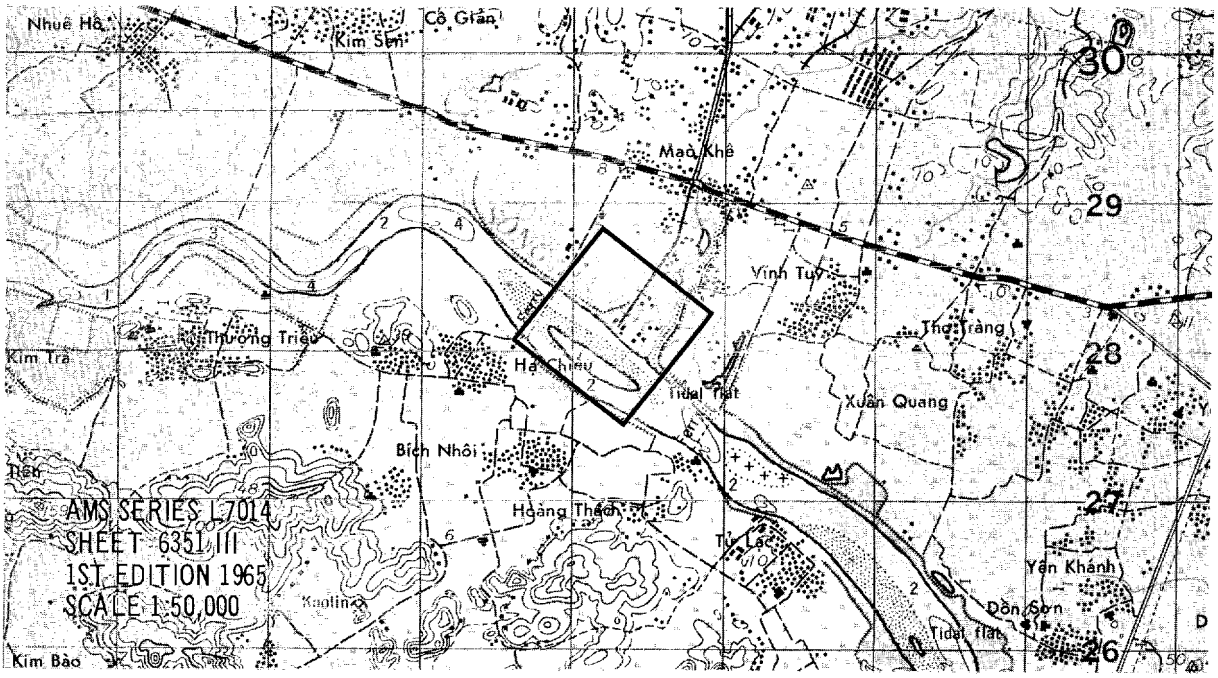
9. Ha Chieu River Port Facilities, North Vietnam

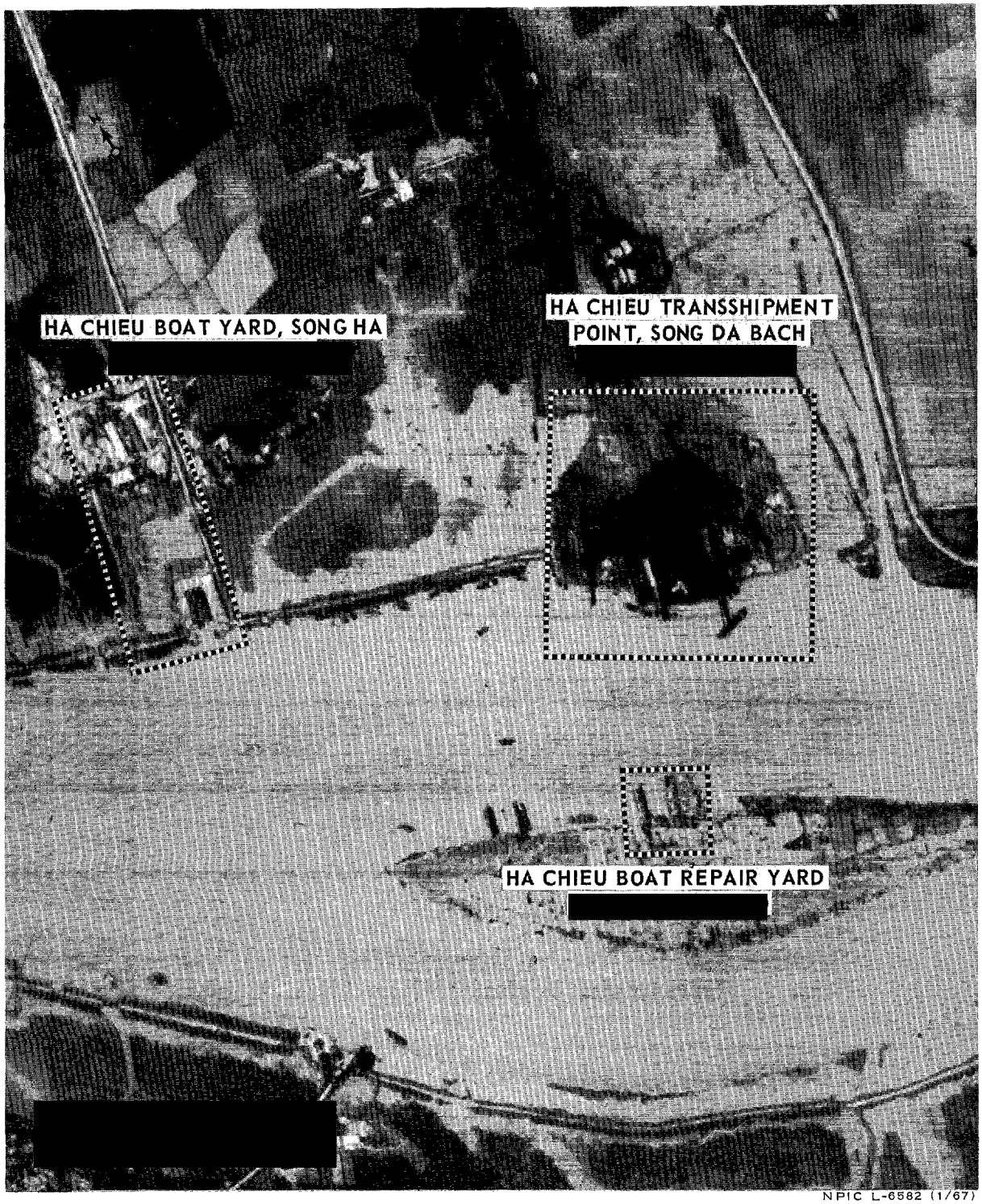
The Ha Chieu River Port Facilities are a complex of three separate areas located on the north bank of the Song Ha (river), 0.5 nm northeast of the village. Ha Chieu Transshipment Point, Song Da Bach (BE No [redacted] at UTM XJ653281 consists of three piers with coal conveyors, five covered buildings, and the southern terminus of a mining railway. Ha Chieu Boat Yard, Song Ha (BE No [redacted] at UTM XJ649284 consists of five support buildings and a graving dock capable of holding two cargo barges. Ha Chieu Boat Repair Yard (BE No [redacted] consists of a graving dock similar to that in [redacted], a mooring slip, and at least five support buildings.

25X1A 25X1A 25X1A 25X1D

25X1A

25X1D [redacted]





25X1A

25X1A

25X1A

25X1D

FIGURE 9. HA CHIEU RIVER PORT FACILITIES, NORTH VIETNAM

25X1A

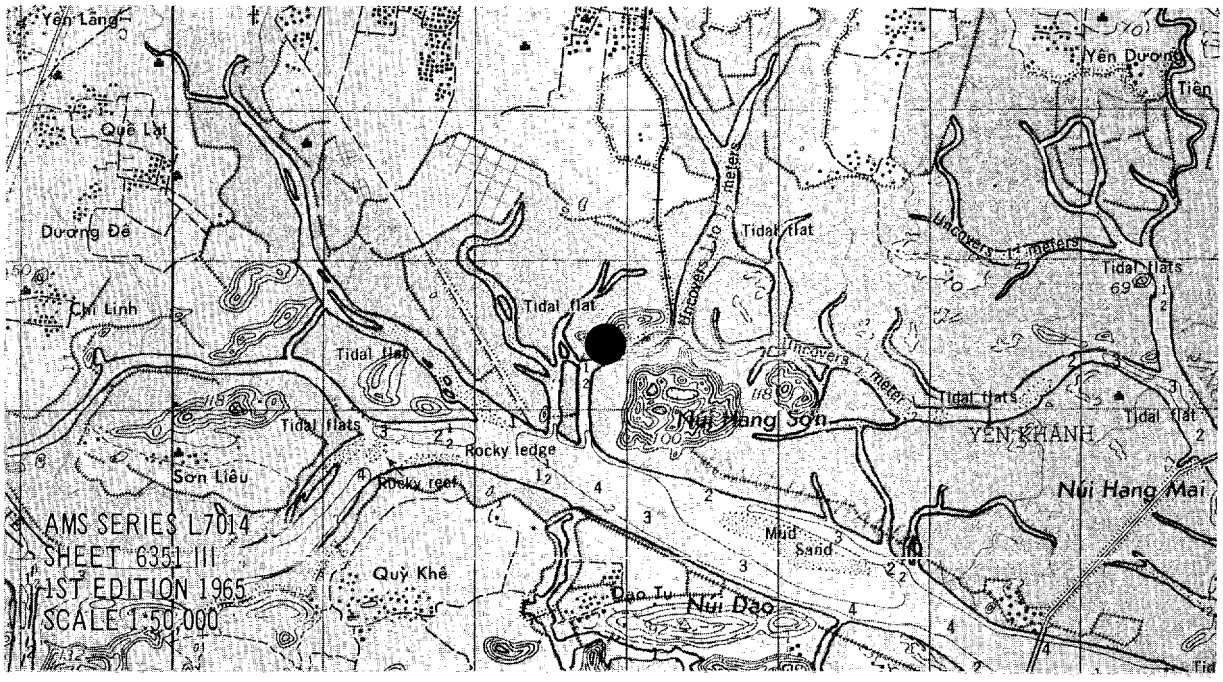
10. Hoanh Ma Transshipment Point, Song Nam Mau, North Vietnam

[redacted]

Hoanh Ma Transshipment Point, located on a branch of the Song Da Bach (river) 1.3 nm south of Lam Xa at UTM XJ729254, is a small coal-loading port under development to serve the Trang Bach coal mines. The port area consists of a concrete offshore wharf capable of berthing one coal barge, four buildings, two other buildings under construction, and four concrete piers. The four concrete piers are possibly a loading ramp in the early stage of construction.

25X1D

[redacted]



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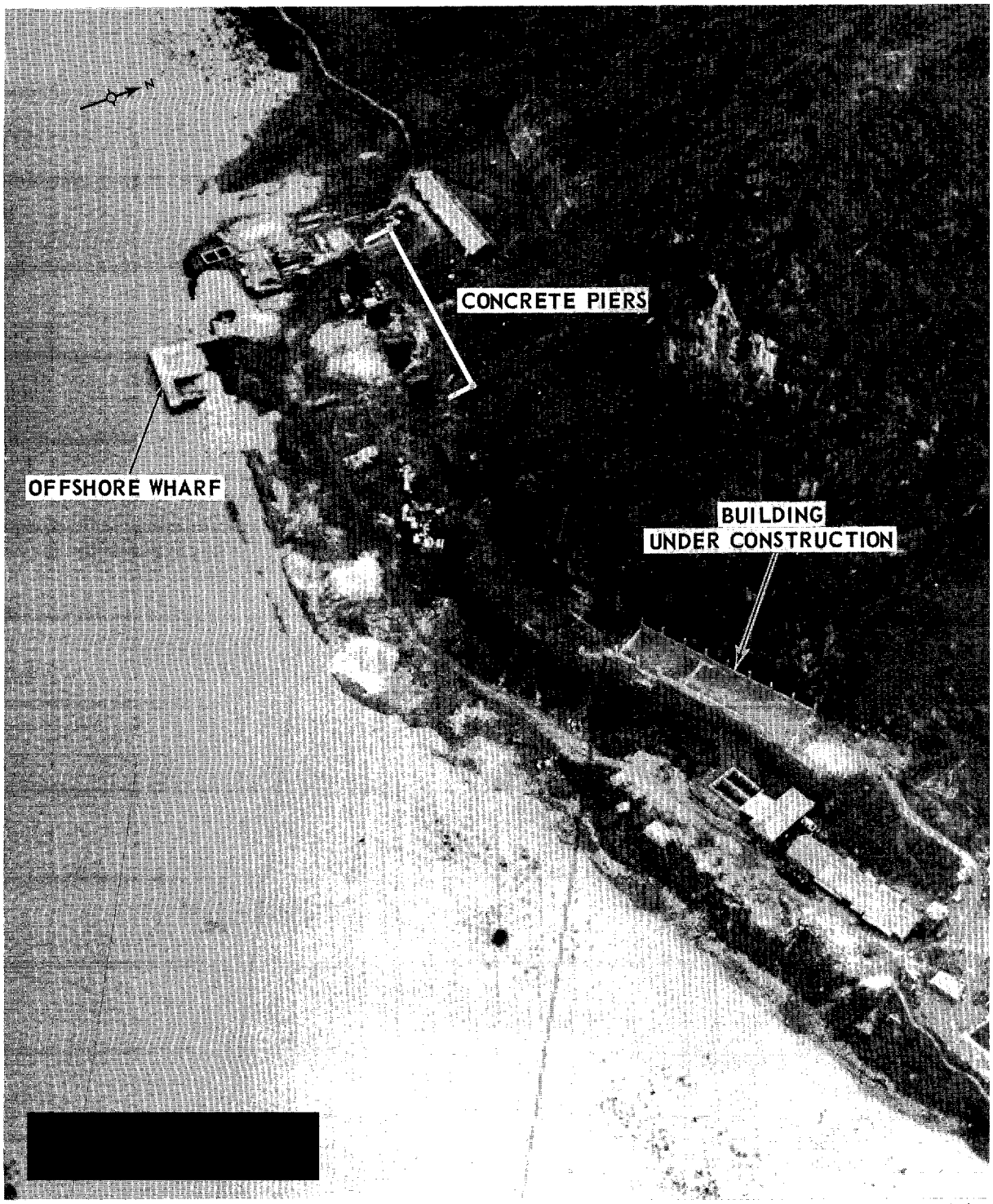

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NPIC L-6583 (1/67)

25X1D *FIGURE 10. HOANH MA TRANSSHIPMENT POINT, SONG NAM MAU, NORTH VIETNAM*

[redacted]

25X1A

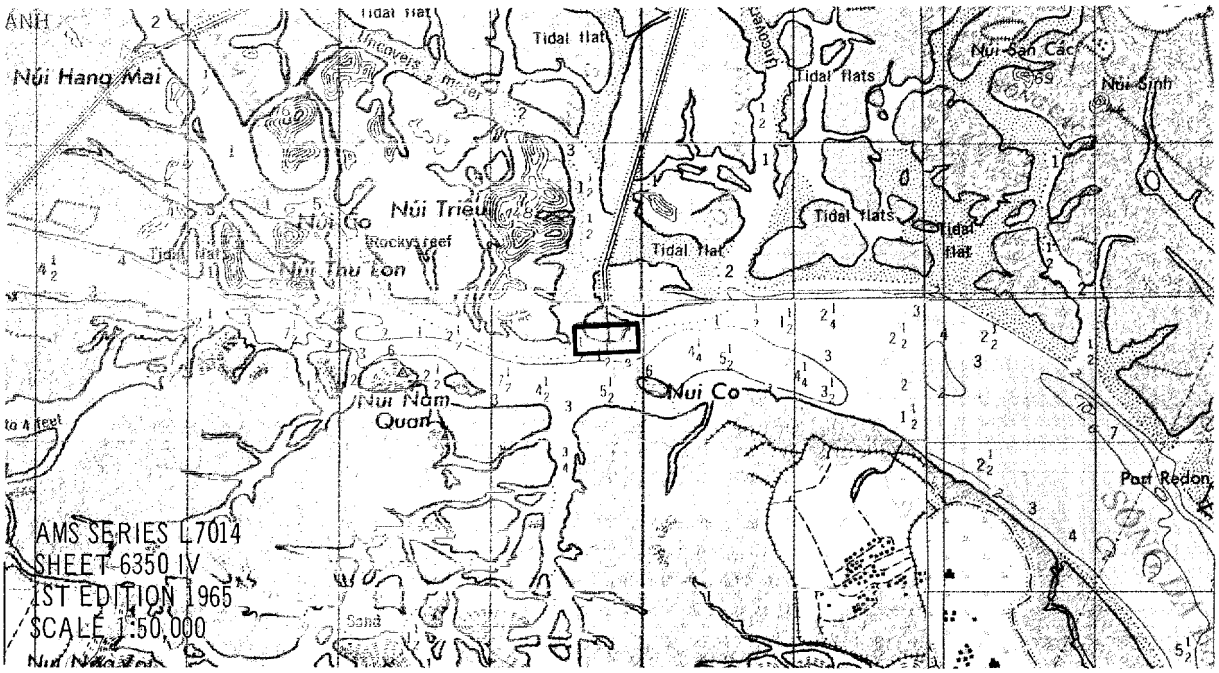
11. Nhu Y Trung Transshipment Point, Song Da Bach, North Vietnam

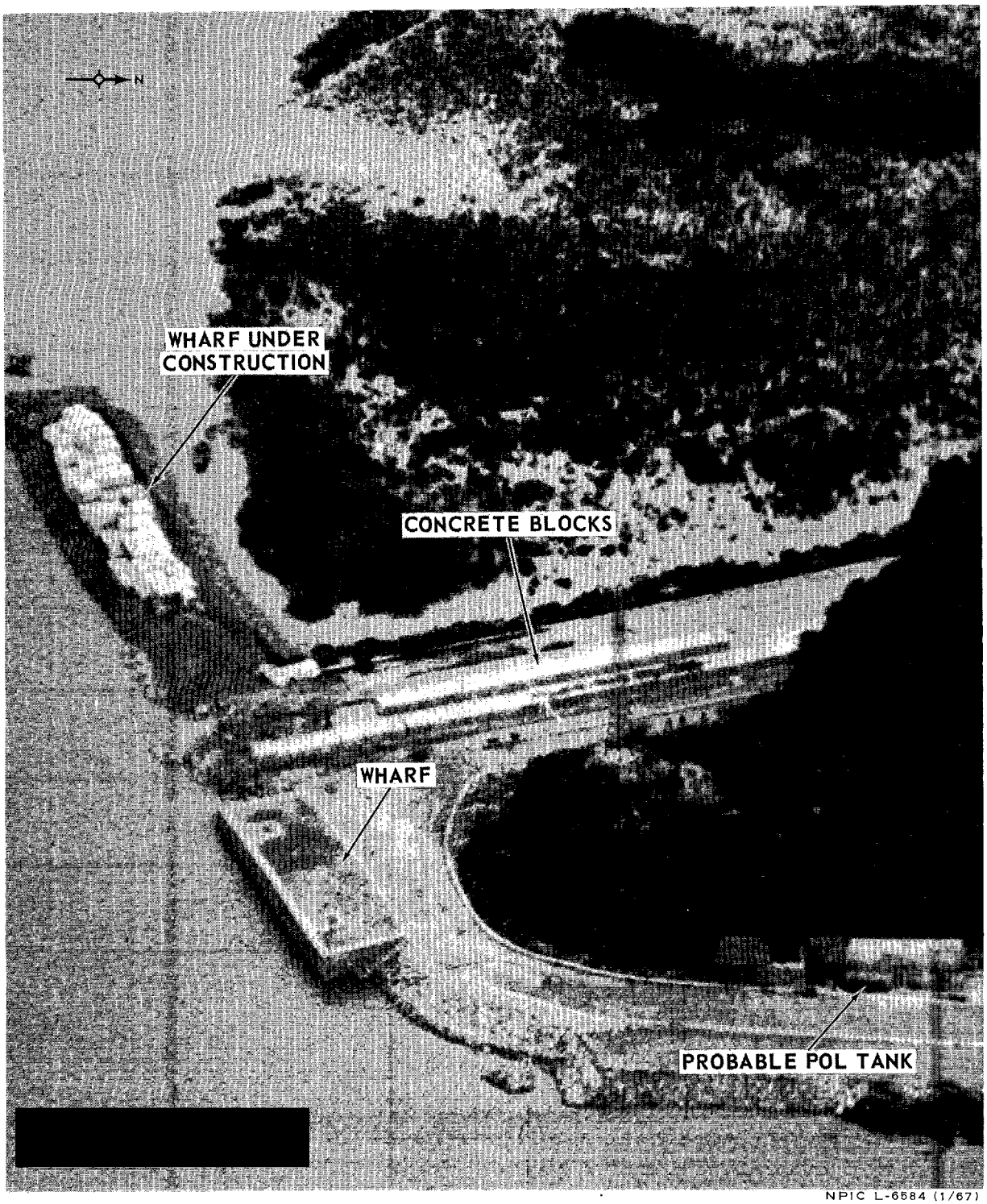
[redacted]

This small transshipment point is located on the north bank of the Song Da Bach (river), 8.5 nm north-northeast of Hai Phong. The facility contains three support buildings and a bridge crane (not depicted in Figure 11), with a concrete-block wharf under construction. Supplies shipped by barge or lighter could be unloaded at this point and trucked to Route 18, approximately 2 nm north-northwest, for east/west movement.

25X1D

[redacted]





NPIC L-6584 (1/67)

25X1D

FIGURE 11. NHU Y TRUNG TRANSSHIPMENT POINT, SONG DA BACH, NORTH VIETNAM

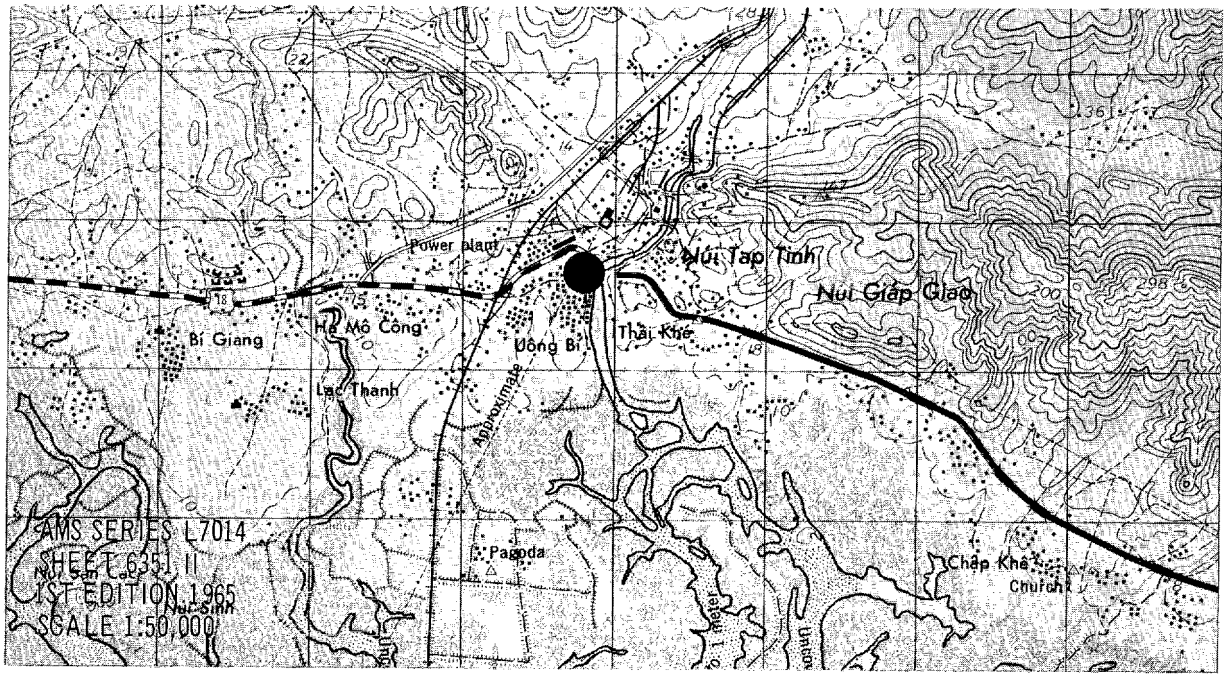
25X1A

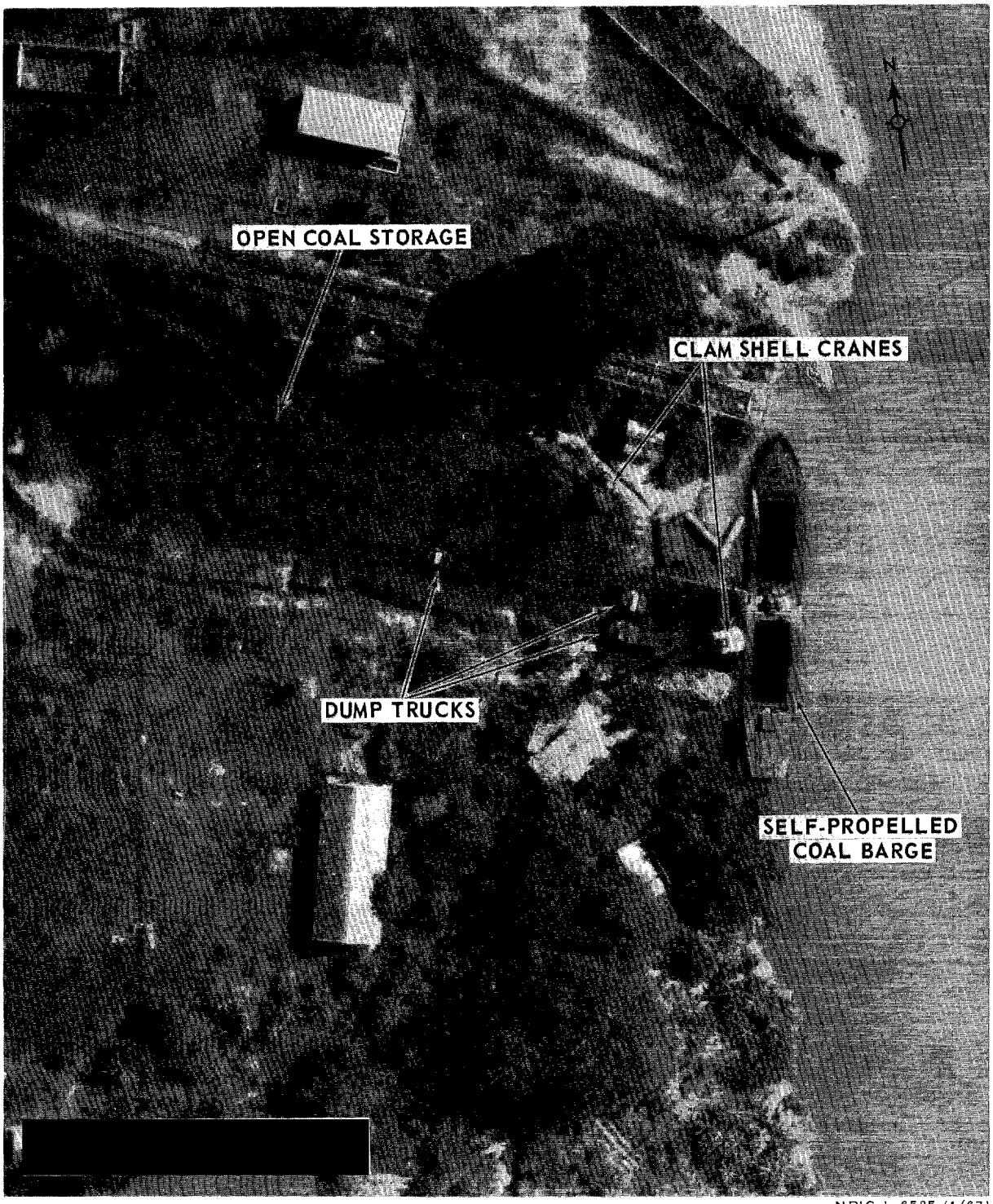
12. Uong Bi Transshipment Point, Song Thai Khe, North Vietnam
[redacted]

Uong Bi Transshipment Point, located on the west bank of the Song Thai Khe (river) at UTM XJ858266, consists of an open coal storage area, a short segment of reinforced river bank, and an offloading area serviced by two clamshell cranes. Additional equipment observed on photography of [redacted] includes three dump trucks and a bulldozer. Coal shipped to this point is probably used at the Uong Bi Powerplant, located 0.3 nm northeast.

25X1D 25X1D

25X1D
[redacted]





NPIC L-6585 (1/67)

25X1D

FIGURE 12. UONG BI TRANSSHIPMENT POINT, SONG THAI KHE, NORTH VIETNAM

25X1A

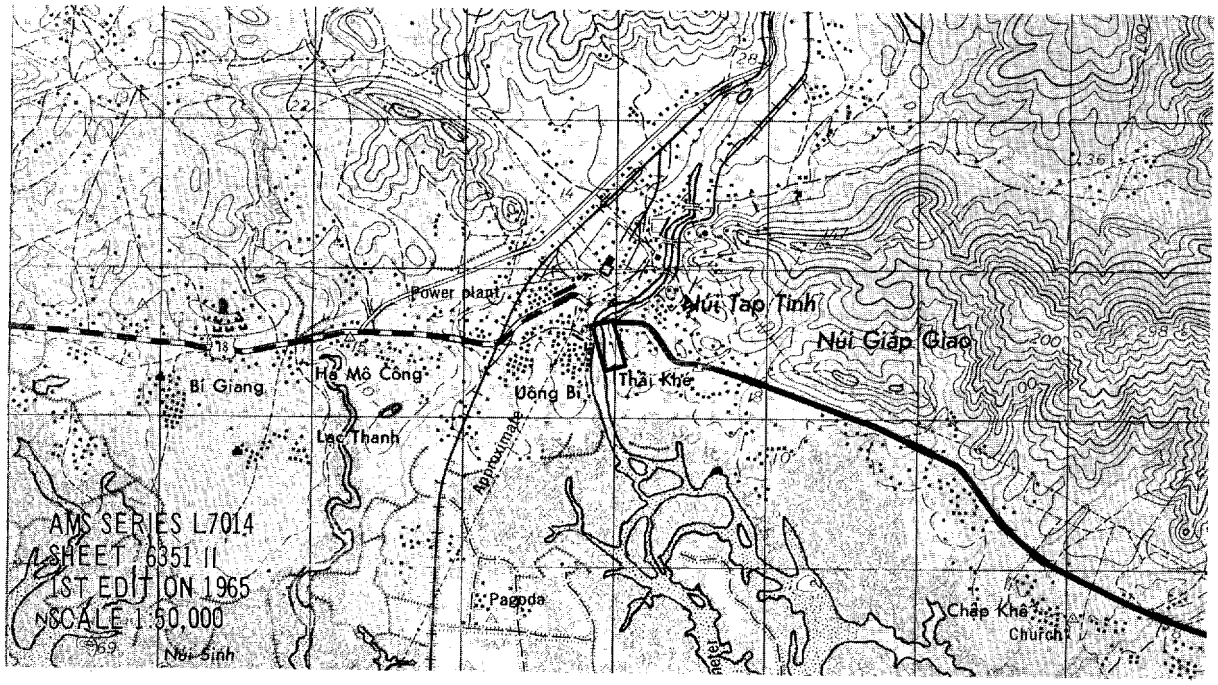
13. Uong Bi Boat Yard, Thai Khe, North Vietnam [redacted]

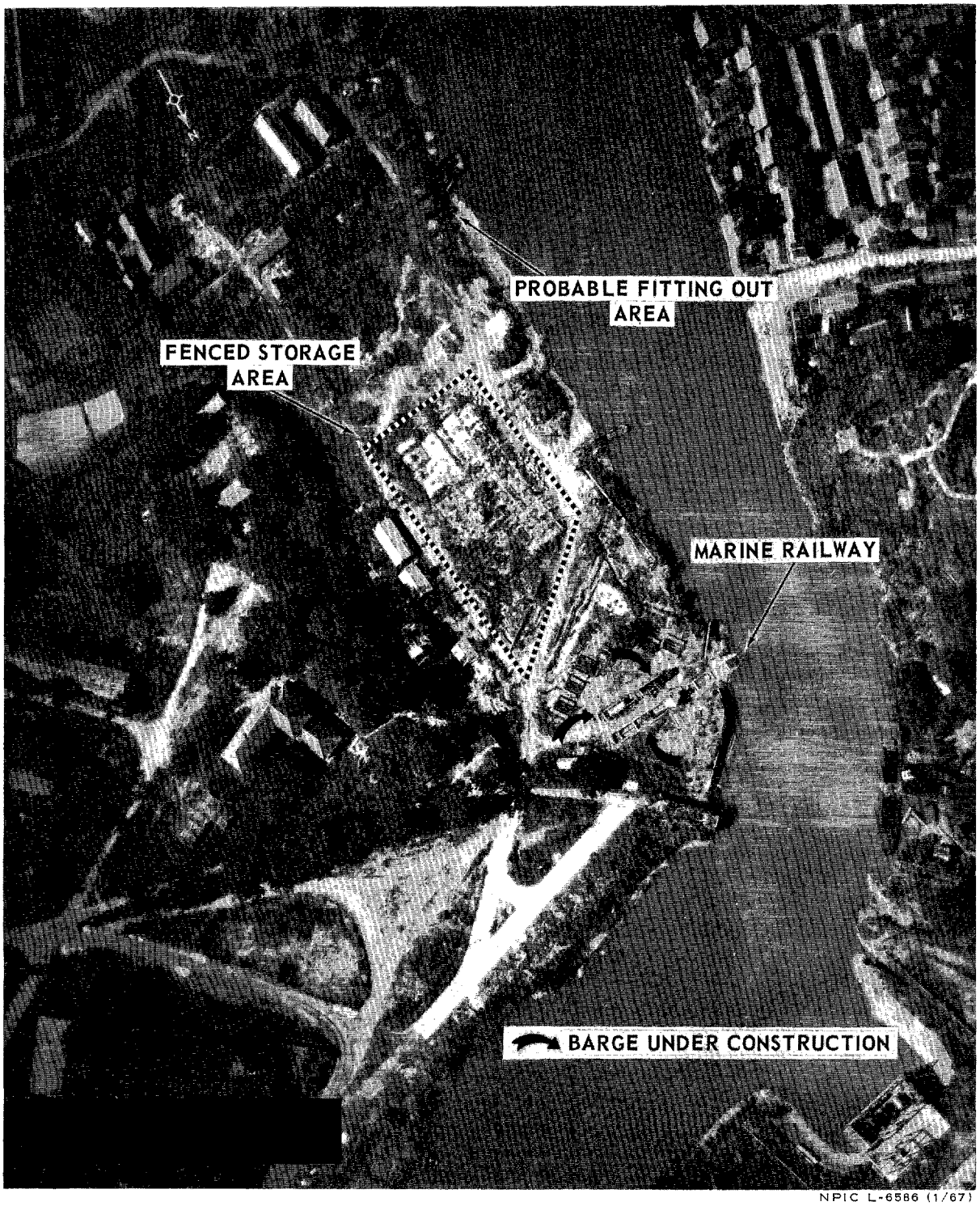
Uong Bi Boat Yard, located on the Song Thai Khe (river) 12.4 nm northeast of Hai Phong at UTM XJ859266, is a secured area utilized as a barge-building yard. The yard consists of a single marine railway, a probable fitting out area, seven support buildings, and a fenced storage area. In Figure 13, the storage area contains camouflaged materials which appear to be sheets of steel. On [redacted] three barges were under construction or repair and five barges were moored along the Song Thai Khe.

25X1D

25X1D

[redacted]





NPIC L-6586 (1/67)

25X1D

FIGURE 13. UONG BI BOAT YARD, THAI KHE, NORTH VIETNAM

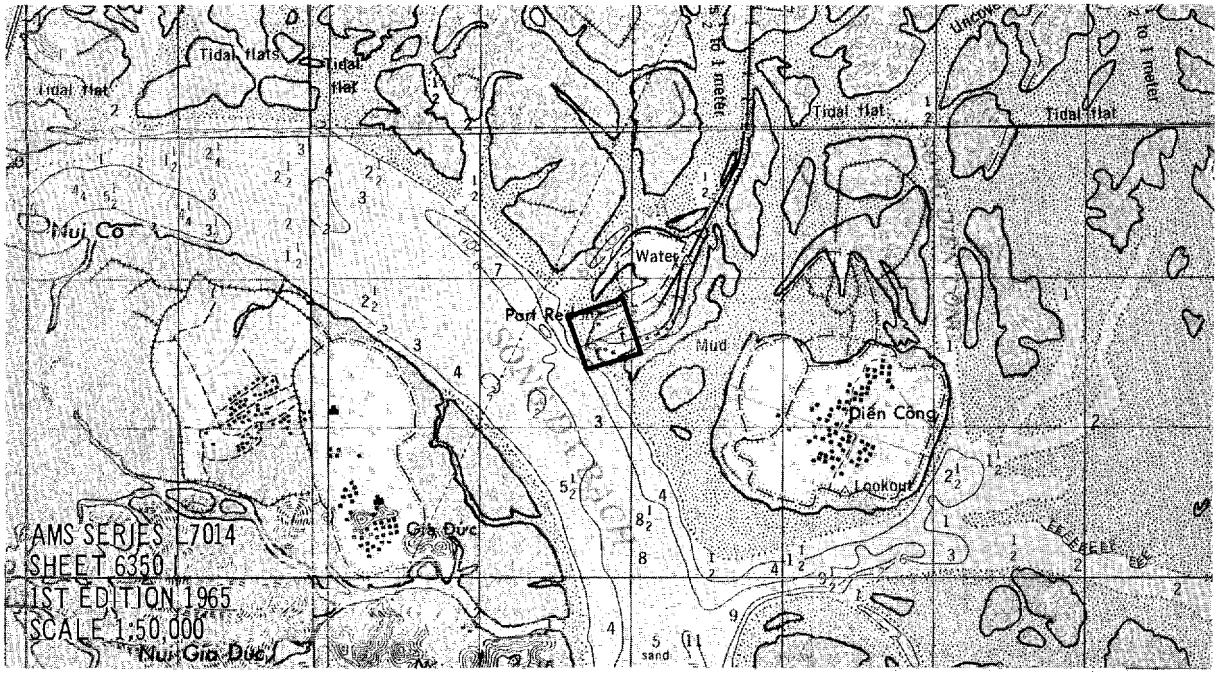
25X1A

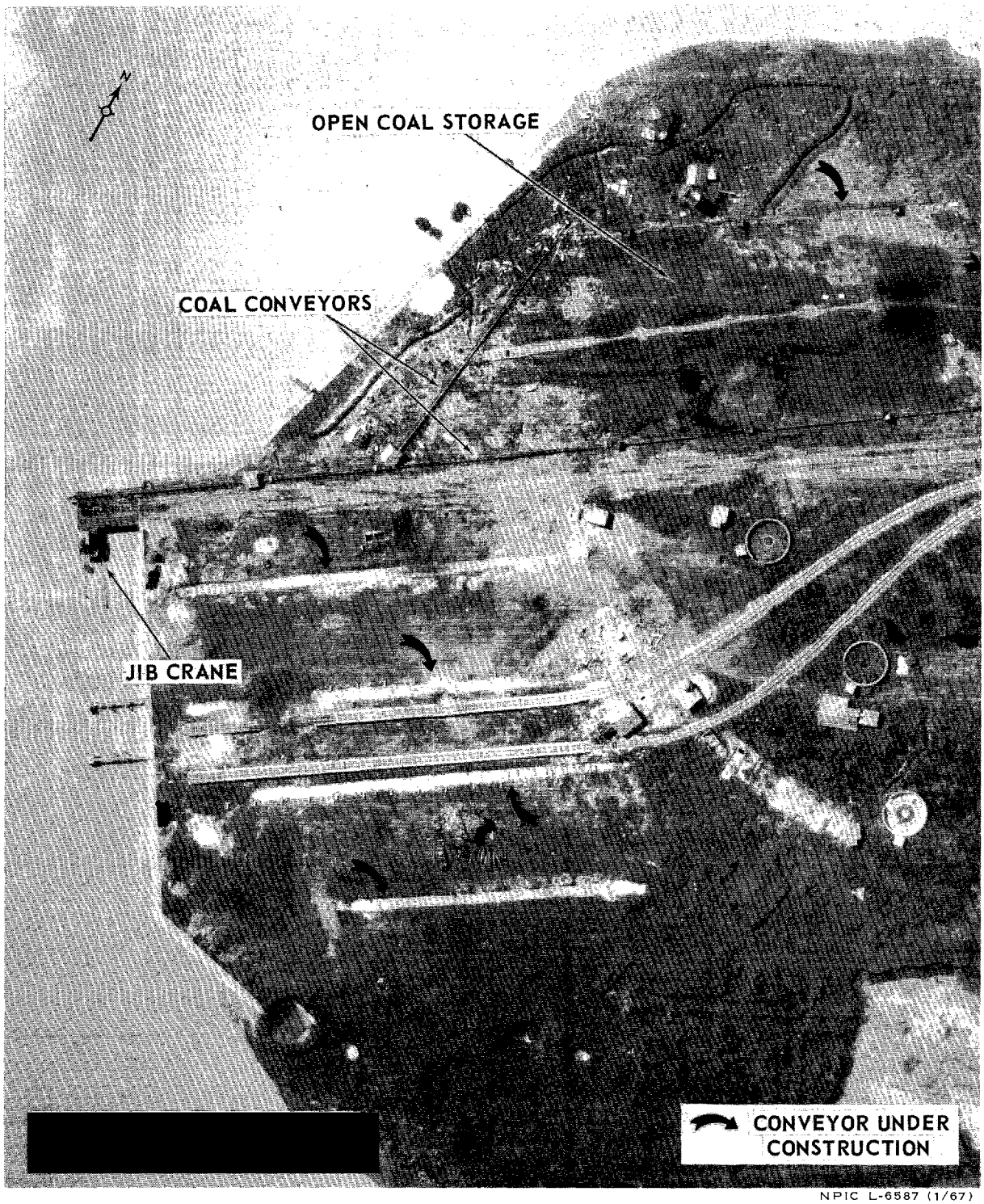
14. Port Redon Coastal Transshipment Point, North Vietnam
[redacted]

Port Redon Coastal Transshipment Point, located on the north bank of the Song Da Bach (river) at UTM XJ838216 and 8.7 nm northeast of Hai Phong, is primarily used to load ore from the Vang Danh mines located approximately 7 nm northeast. The facility can accommodate water craft as large as a river barge or lighter. A rail line from the north serves the port area, with five rail spurs leading to the loading pier area on the tidal flat. The facilities consist of a conveyor loading system, a probable fixed jib crane on the pier, and several support buildings. Two additional rail spurs and five conveyor belt systems leading to the pier were observed under construction on photography of [redacted]

25X1D

25X1D
[redacted]





[redacted]

NPIC L-6587 (1/67)

25X1D *FIGURE 14. PORT REDON COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM*

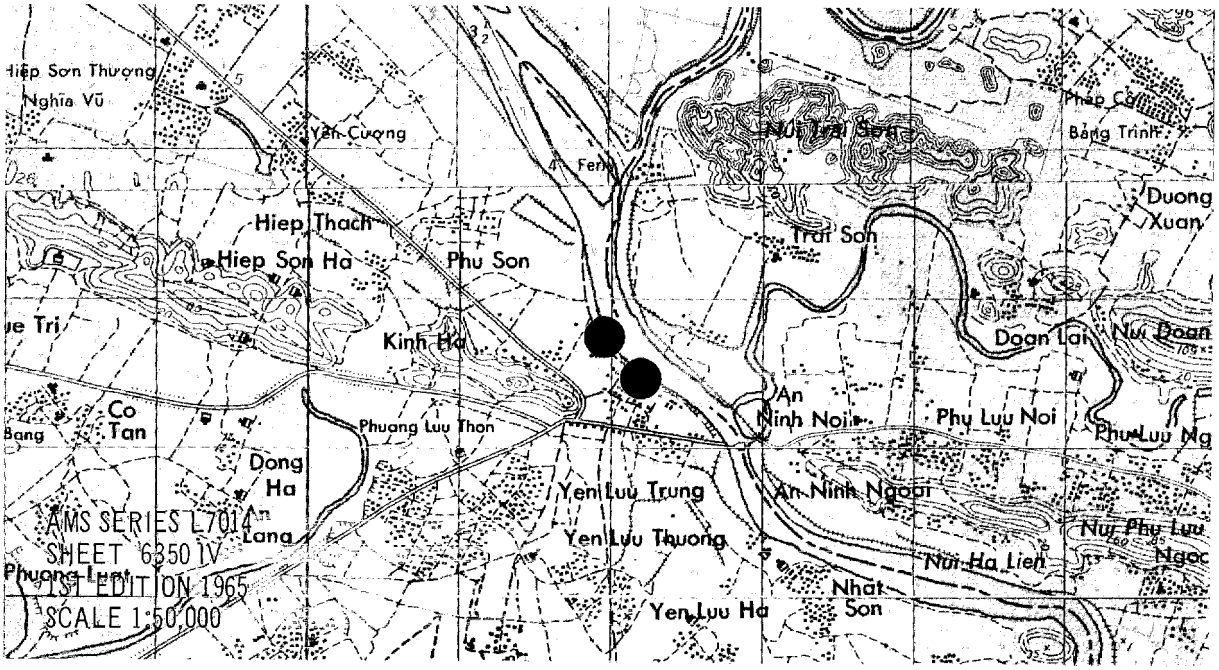
[redacted]

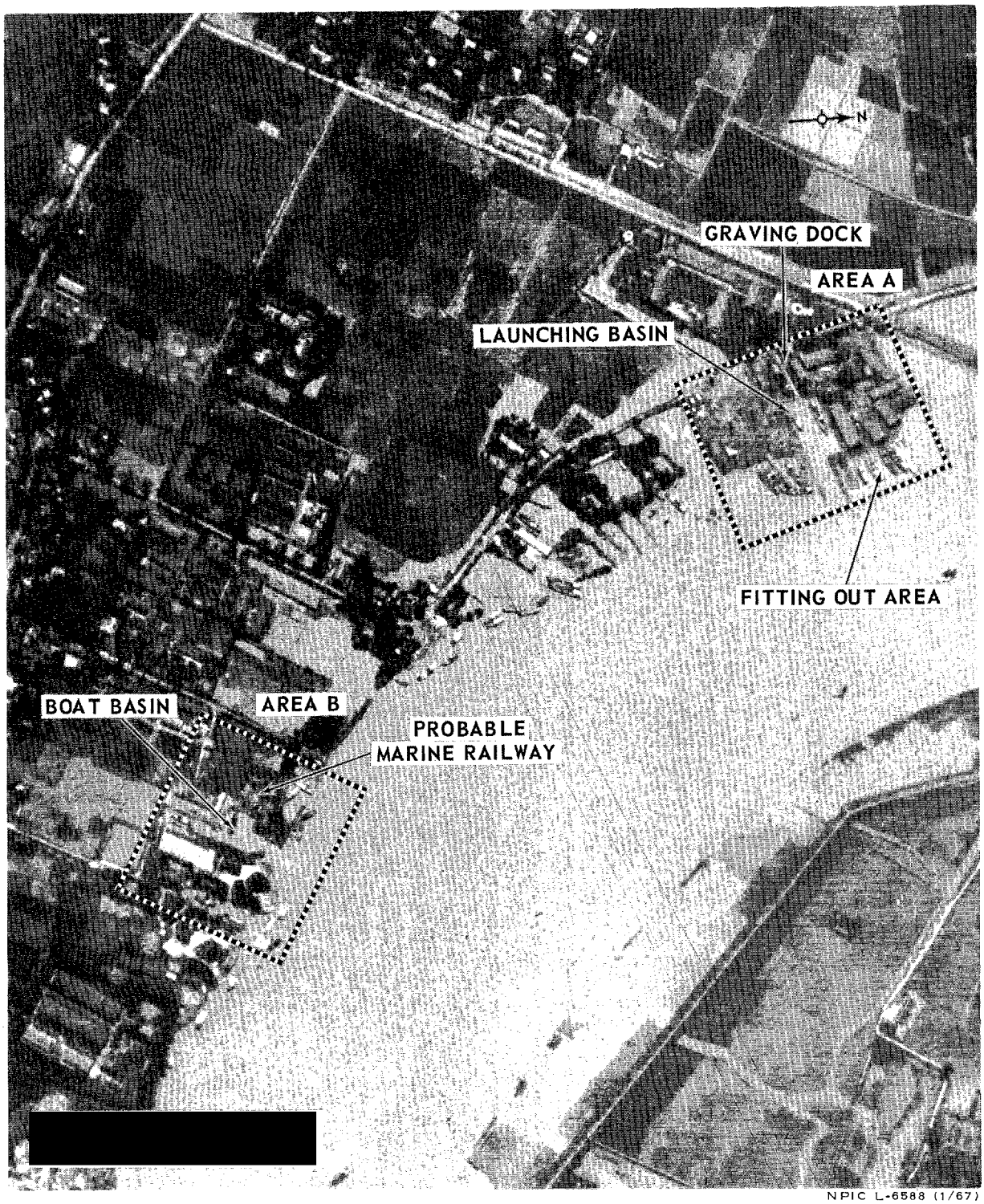
25X1A

15. Yen Cuong Boat Yard, North Vietnam [redacted]

Yen Cuong Boat Yard, located on the west bank of the Song Han (river) 1.3 nm southeast of Yen Cuong, is comprised of two boat-building/repair yards (Areas A and B in Figure 15). Area A, at UTM XJ619218, consists of a graving dock, a launching basin, and a fitting out area. Area B, at UTM XJ622215, consists of a probable marine railway and a boat basin.

25X1D [redacted]





NPIC L-6588 (1/67)

25X1D

FIGURE 15. YEN CUONG BOAT YARD, NORTH VIETNAM

25X1A

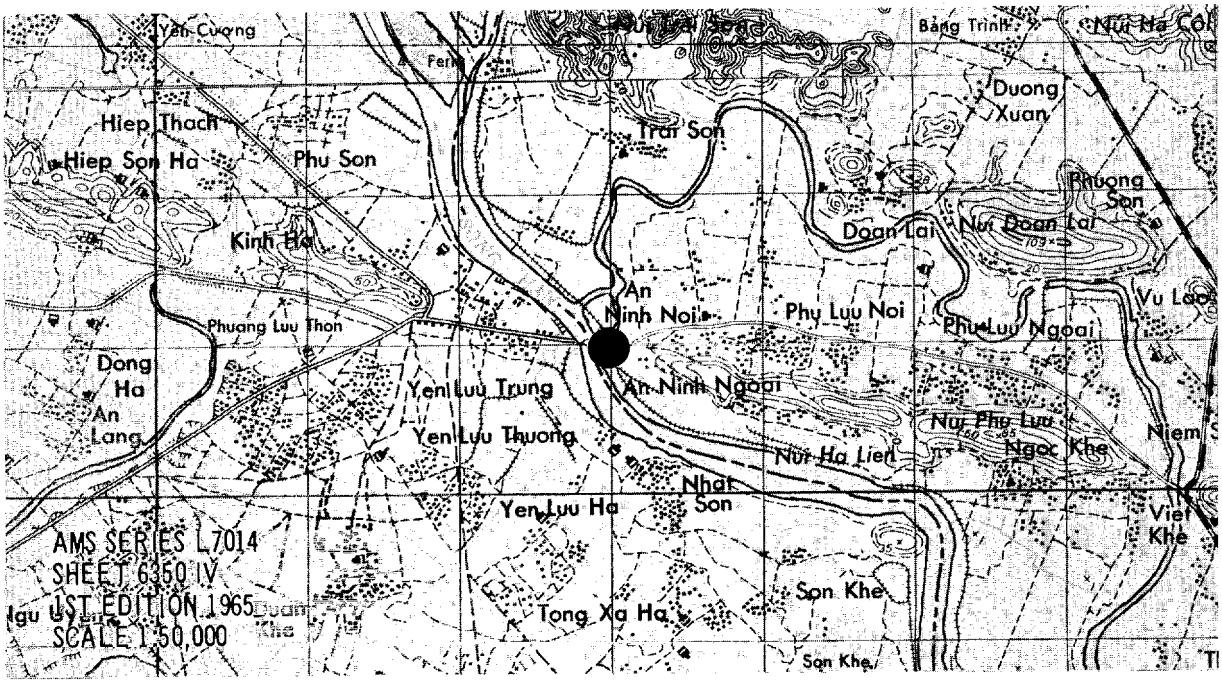
16. An Ninh Noi Shipyard, North Vietnam [redacted]

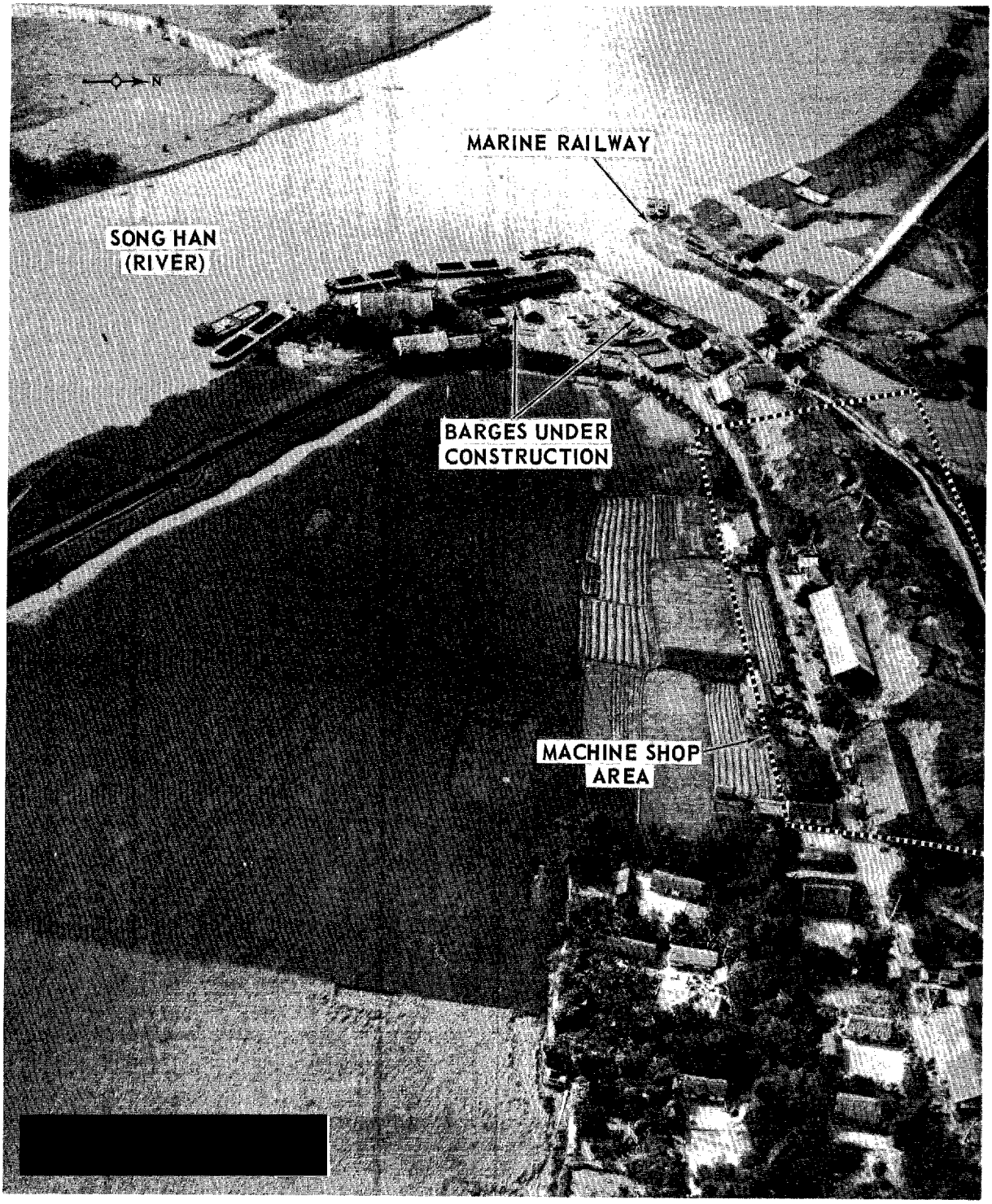
An Ninh Noi Shipyard is located on the east bank of the Song Han (river), 10.1 nm northwest of Hai Phong at UTM XJ629210, and serves as a building and repair yard for small barges and other river craft. The yard consists of two building ways, one marine railway, and at least 14 associated buildings and machine shops. An unnumbered road from Route 5, 3 nm west-southwest, extends to the area. On the date of photography, [redacted] the yard area contained three barges, two probable self-propelled barges, and two other craft in the river; two river craft were on the marine railway and two barges were under construction.

25X1D

25X1D

[redacted]





[redacted]

NPIC L-6589 (1/67)

25X1D

FIGURE 16. AN NINH NOI SHIPYARD, NORTH VIETNAM

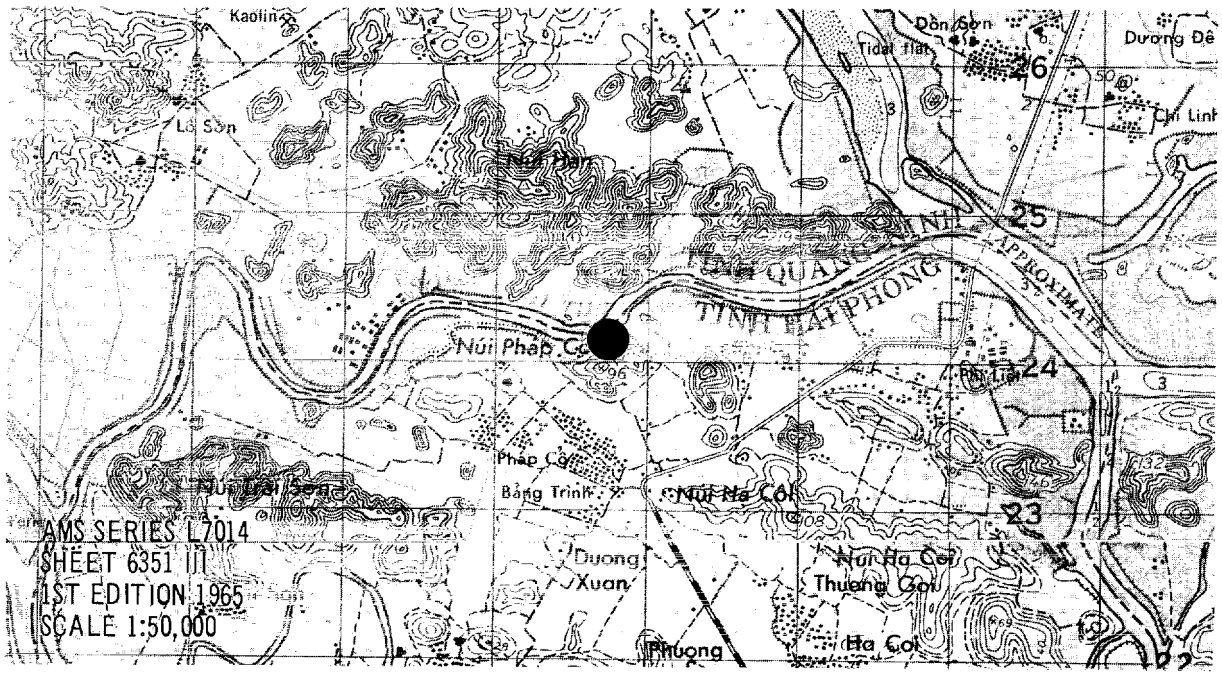
25X1A

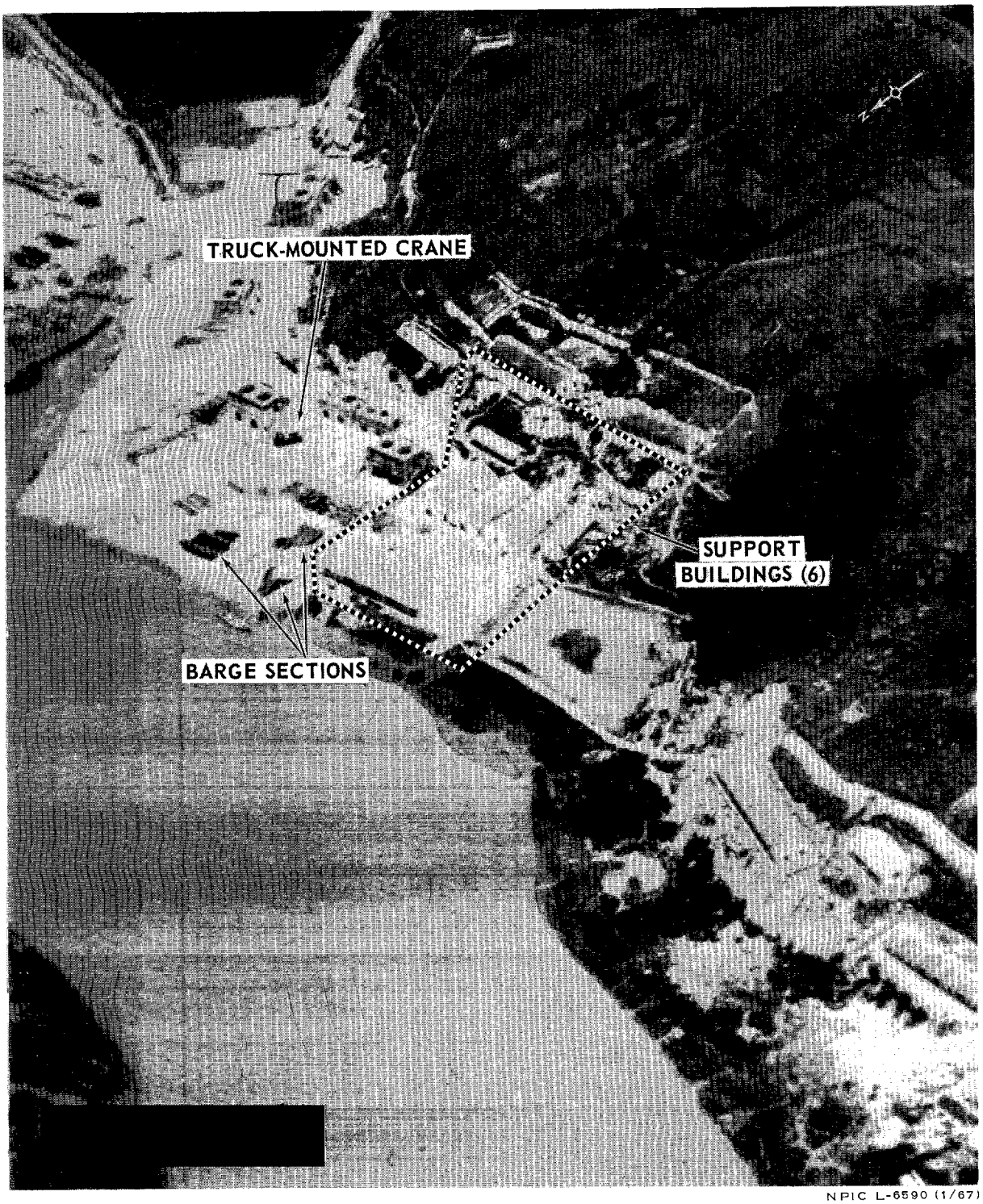
17. Phap Co Shipyard, North Vietnam [redacted]

Phap Co Shipyard is located on the south bank of the Song Kinh Thai (river) at UTM XJ658243 adjacent to an abandoned kiln works 0.4 nm northeast of Phap Co and 10.7 nm northwest of Hai Phong. Primarily a barge-building facility, the yard consists of a single, side-launching building way, six support buildings/shops, and two housing units. A possibly associated area immediately west contains five probable support buildings and 10 probable housing units. On photography of [redacted] one barge in an early stage of assembly and one truck-mounted crane were observed. 25X1D

25X1D

[redacted]





NPIC L-6590 (1/67)

25X1D

FIGURE 17. PHAP CO SHIPYARD, NORTH VIETNAM

25X1A

18. Gia Duc Transshipment Point, Song Leo, North Vietnam ([redacted])

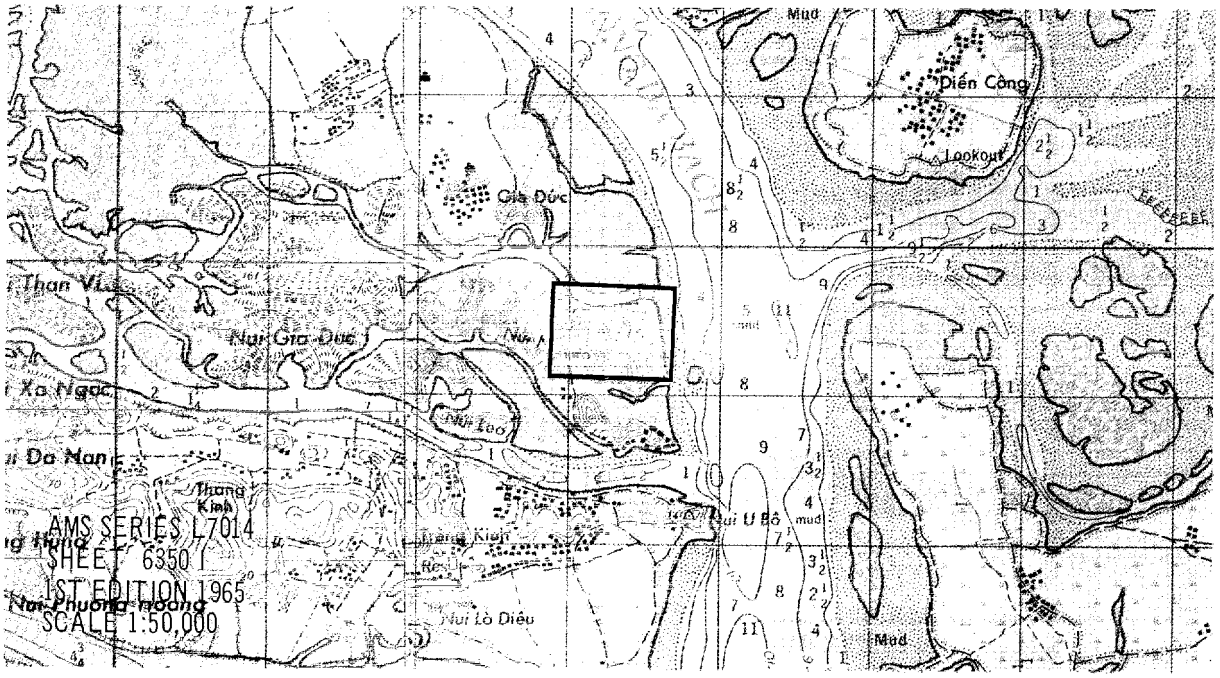
Gia Duc Transshipment Point is a limestone shipping port located at the confluence of the Song Leo and Song Da Bach (rivers), 7.9 nm north-northeast of Hai Phong at UTM XJ834196. The port consists of six support buildings and a quay capable of serving five barges of the type shown in Figure 18. Other equipment observed on the date of photography, [redacted] included an ore crusher, a disassembled crane, and several conveyors for barge loading.

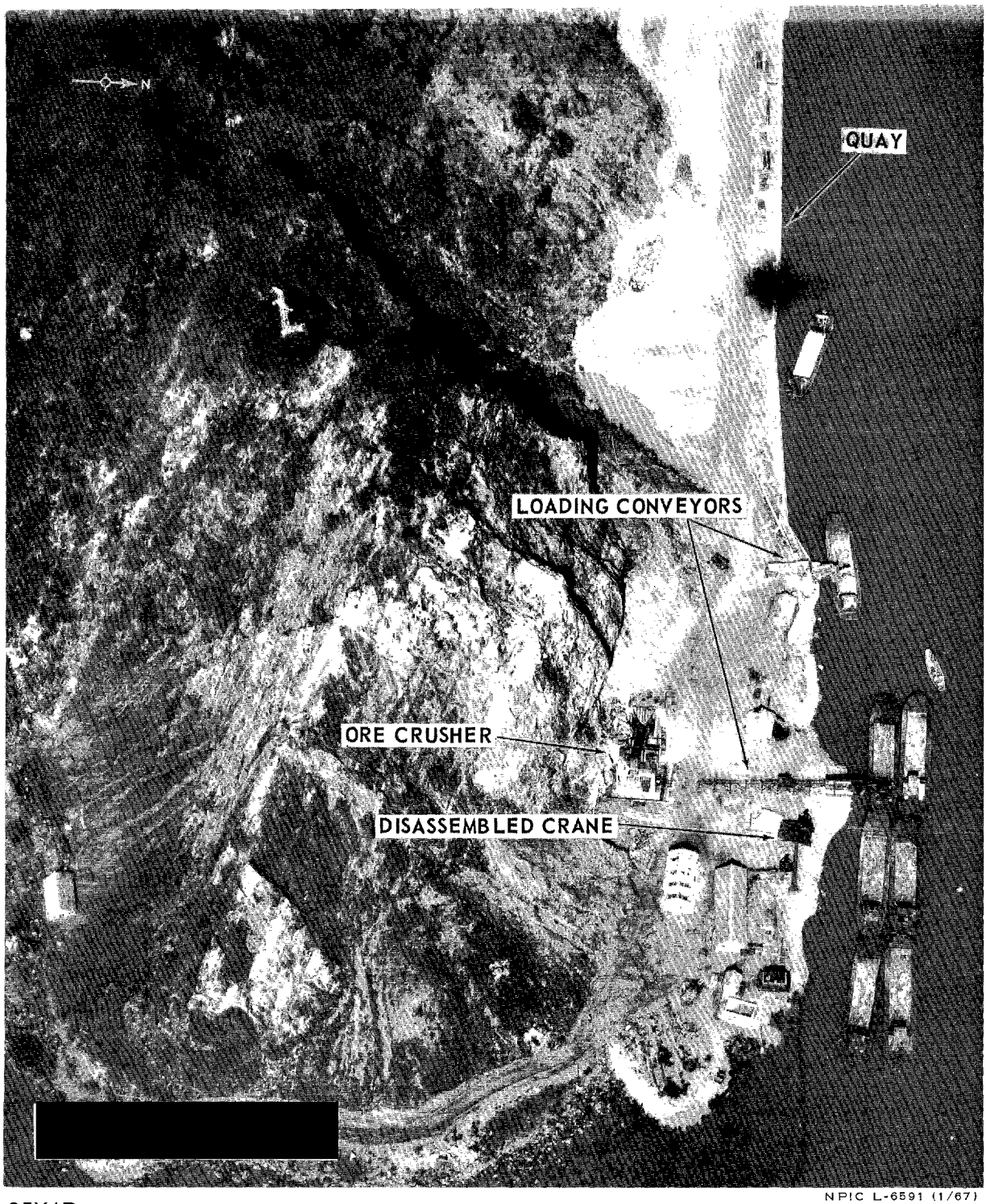
25X1D

25X1D

25X1D

[redacted]





NPIC L-6591 (1/67)

25X1D

FIGURE 18. GIA DUC TRANSSHIPMENT POINT, SONG LEO, NORTH VIETNAM.

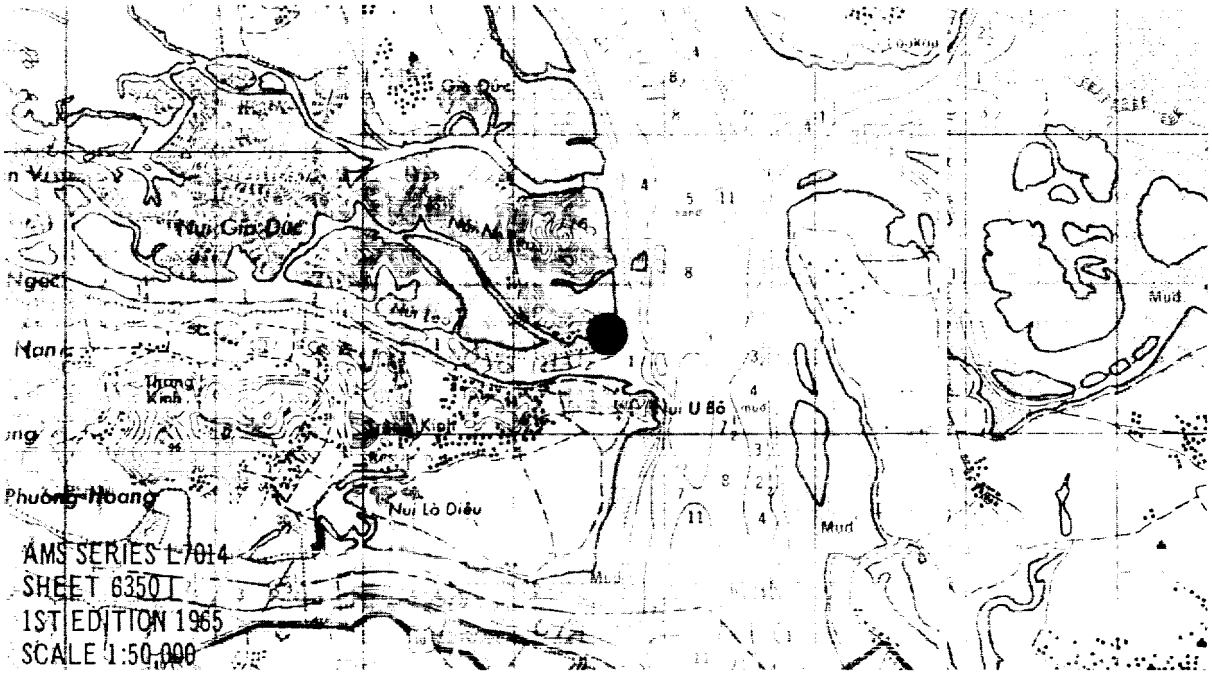
[redacted]

25X1A 19. Trang Kinh Transshipment Point, Song Thai, North Vietnam

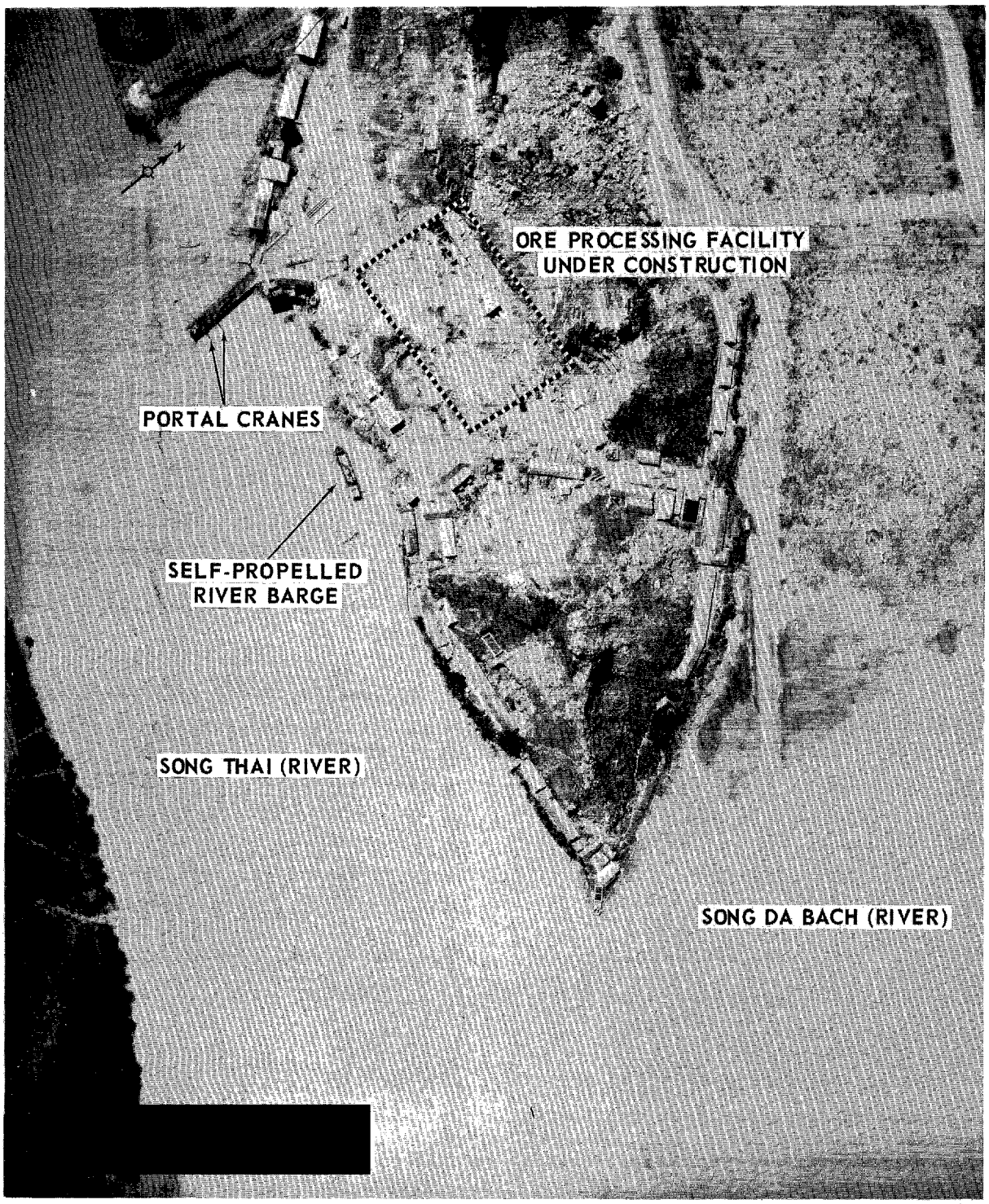
[redacted]

Trang Kinh Transshipment Point, located at the confluence of the Song Da Bach and the Song Thai (rivers) at UTM XJ835186, is primarily associated with ore extraction, processing, and shipping in the area. The facilities consist of an ore processing facility under construction, 41 support buildings, and a pier with two portal cranes.

25X1D [redacted]



[redacted]



NPIC L-6592 (1/67)

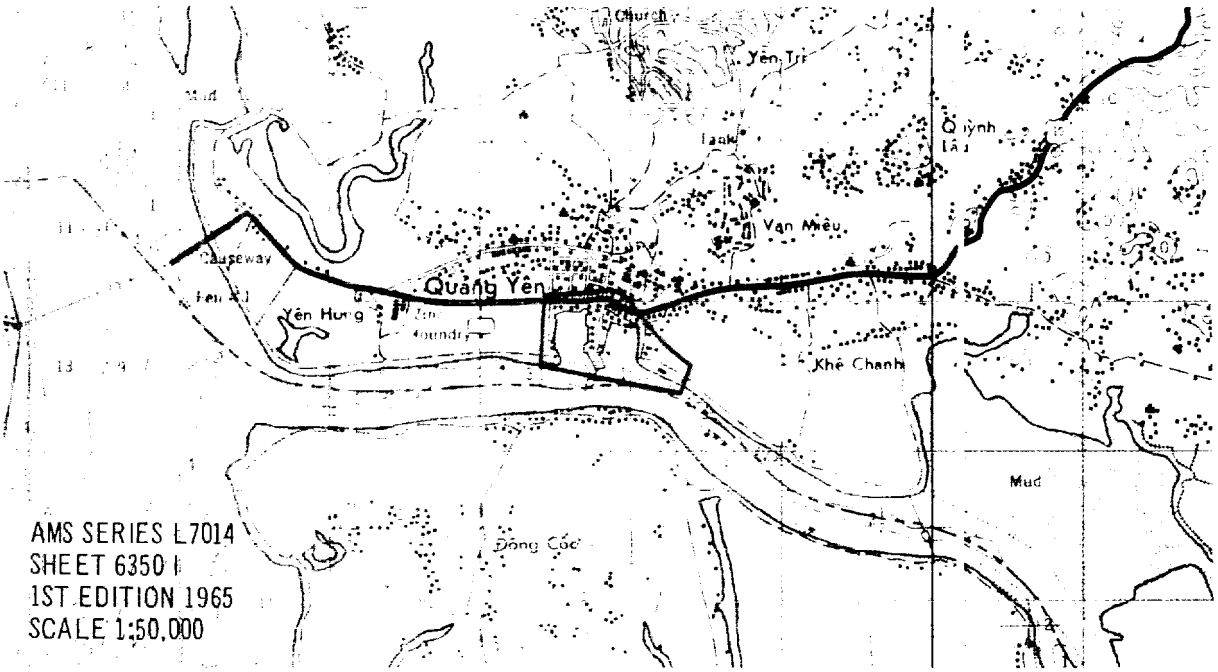
25X1D

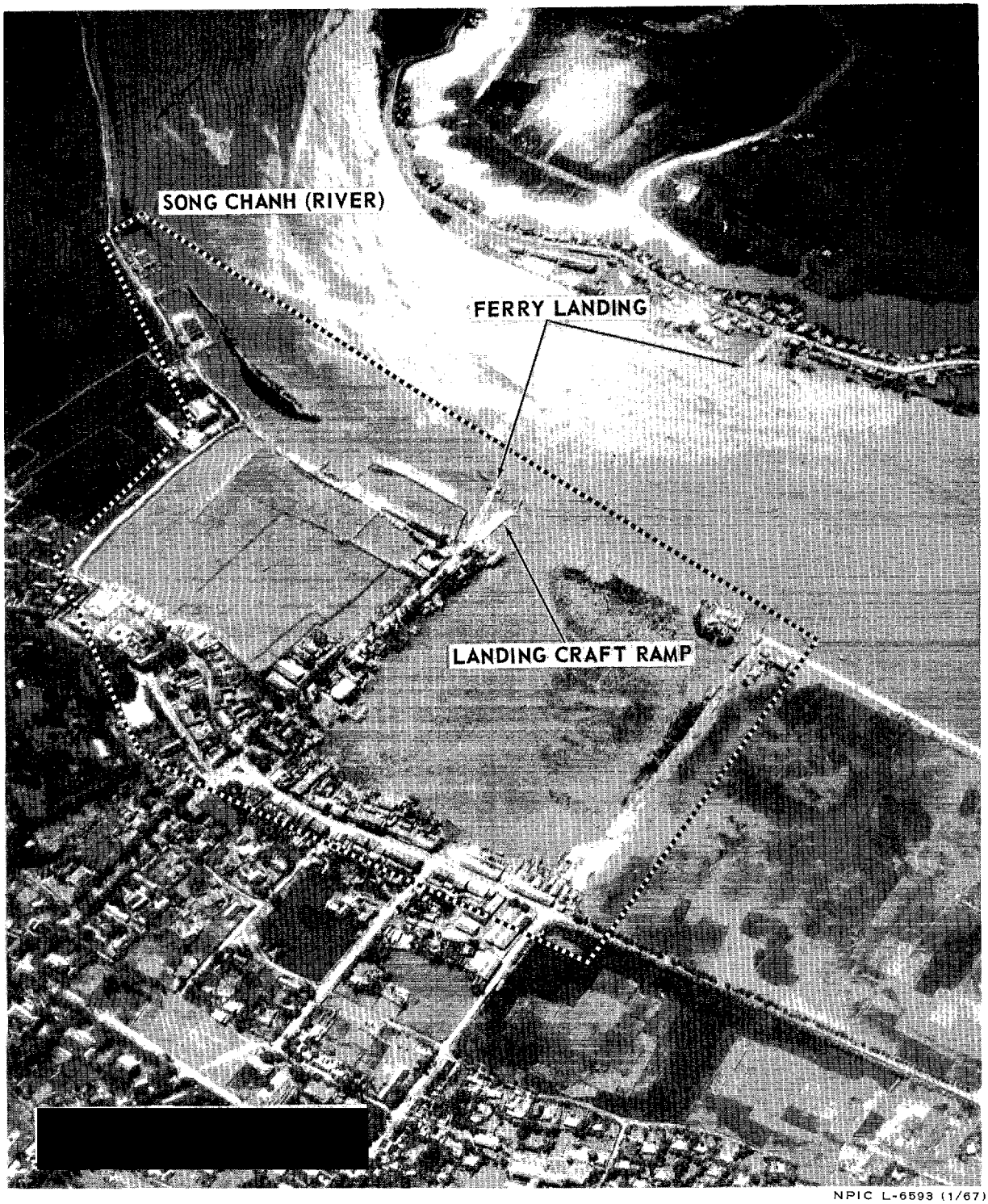
FIGURE 19. TRANG KINH TRANSSHIPMENT POINT, SONG THAI, NORTH VIETNAM

25X1A 20. Quang Yen Transshipment Point, Song Chanh, North Vietnam
[redacted]

Quang Yen Transshipment Point, a small river port on the Song Chanh (river), is located on the south edge of Quang Yen at UTM XJ877158. The port consists of at least 24 storage buildings, a ferry landing, and a landing craft ramp.

25X1D [redacted]





NPIC L-6593 (1/67)

25X1D

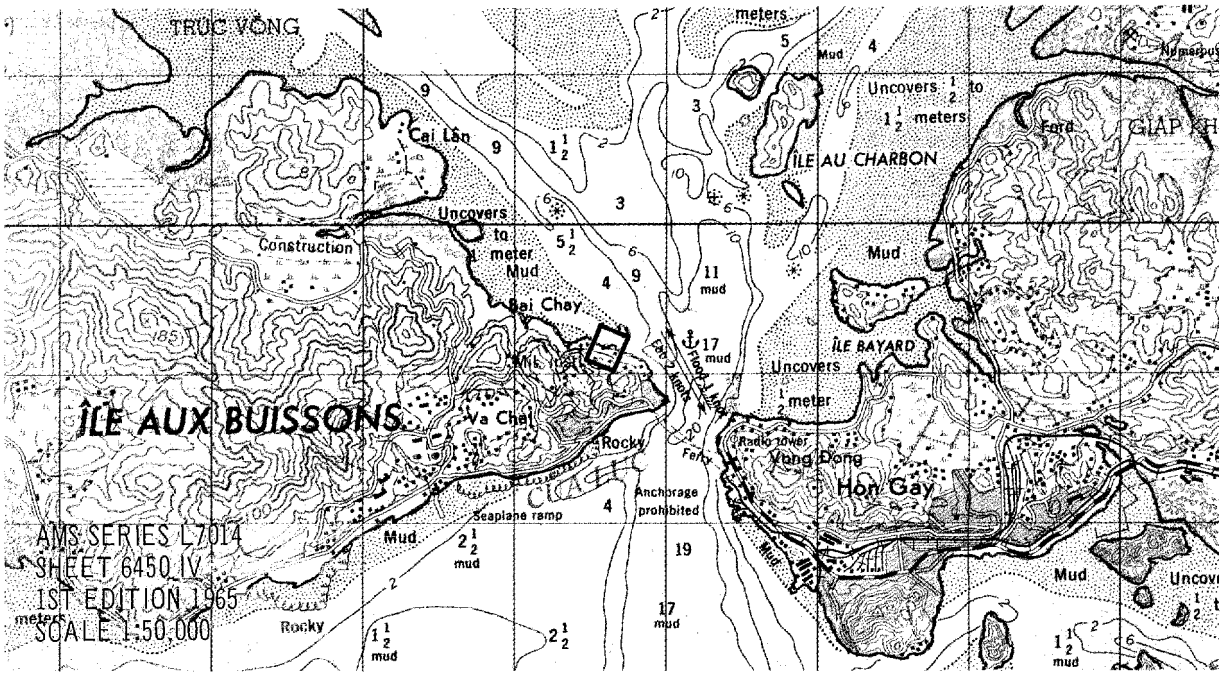
FIGURE 20. QUANG YEN TRANSSHIPMENT POINT, SONG CHANH, NORTH VIETNAM

25X1A 21. Hon Gai Naval Base and Shipyard, Bai Chay, North Vietnam

[redacted]

Hon Gai Naval Base and Shipyard, located in Bai Chay on the south shore of Hon Gai Bay at UTM XJ146192, consists of a fueling pier and a single marine railway with a transverser system capable of accommodating seven vessels. The yard also contains POL storage tanks and nine buildings with medium-to-heavily damaged roofs.

25X1D [redacted]



NPIC L-6594 (1/67)

25X1D

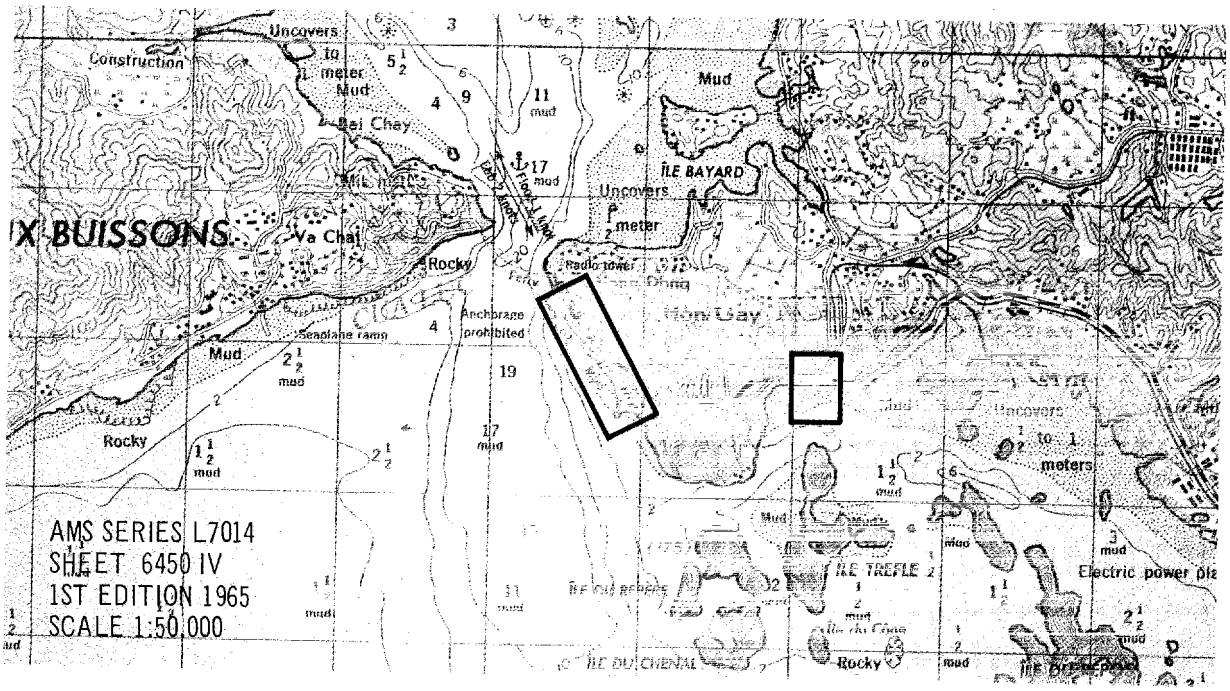
FIGURE 21. HON GAI NAVAL BASE AND SHIPYARD, BAI CHAY, NORTH VIETNAM

25X1A

22. Hon Gai Port Facilities, North Vietnam [redacted]

Hon Gai Port Facilities, located on the Baie Dalong, is composed of a coal transshipment point (Area A) and a shipping area under construction (Area B) on the western side of the town. The first area, at UTM YJ157179, consists of a coal treatment facility, Warehouse Wharf, and three large coal wharves (two with two gooseneck portal cranes each). Rail spurs lead from the mines located 2.5 nm east to the wharves. The shipping area, at UTM YJ172177, consists of a pier under construction and a loading pier with five conveyor belts.

25X1D [redacted]

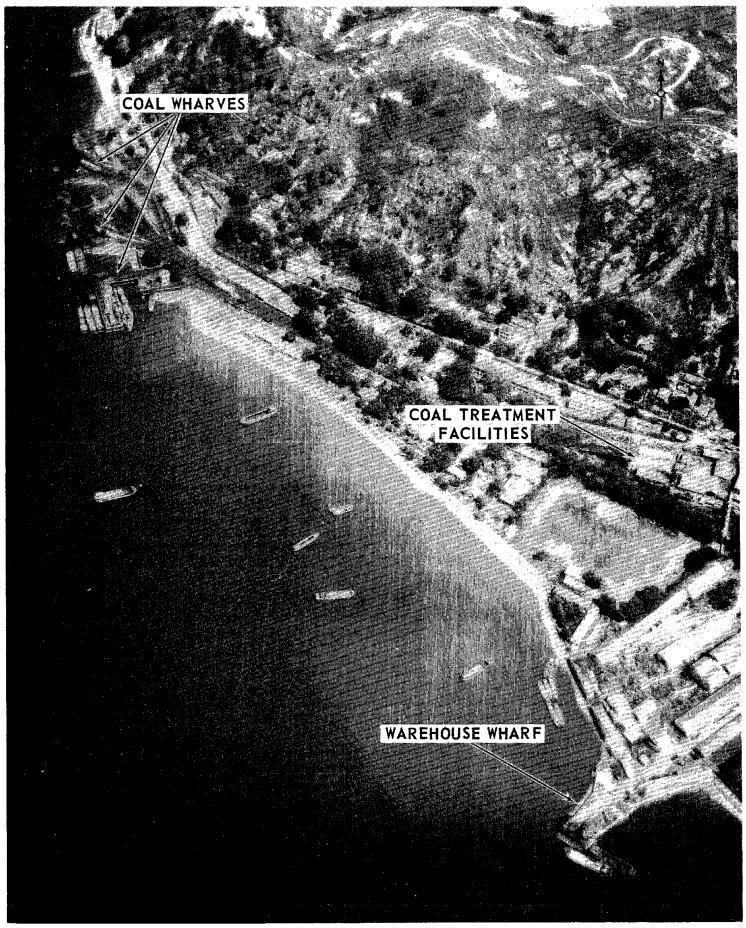


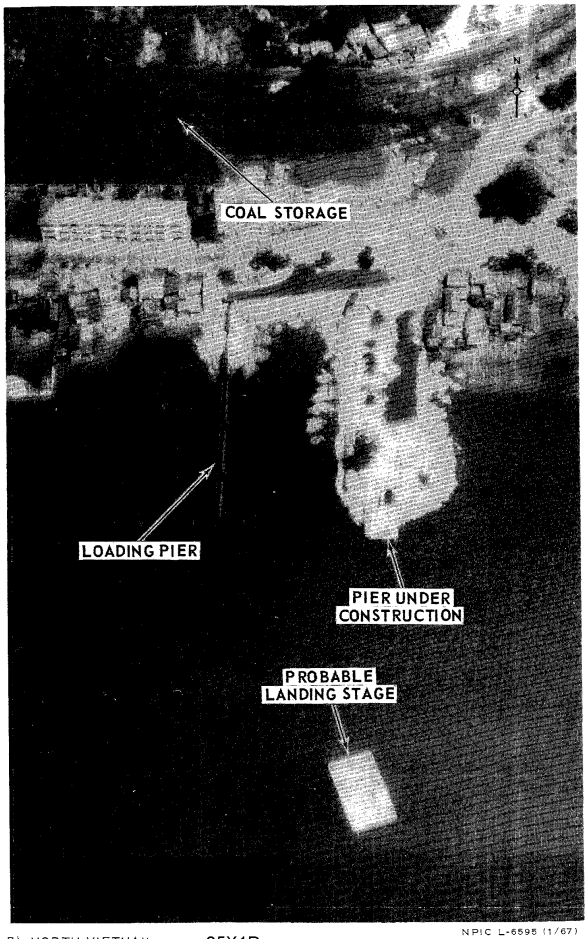
25X1C

CONFIDENTIAL

[redacted]

R-15/67





NPIC L-6595 (1/67)

25X1D

FIGURE 22. HON GAI PORT FACILITIES (AREAS A & B), NORTH VIETNAM.

25X1D

25X1C

CONFIDENTIAL

[redacted]

[redacted]

25X1A

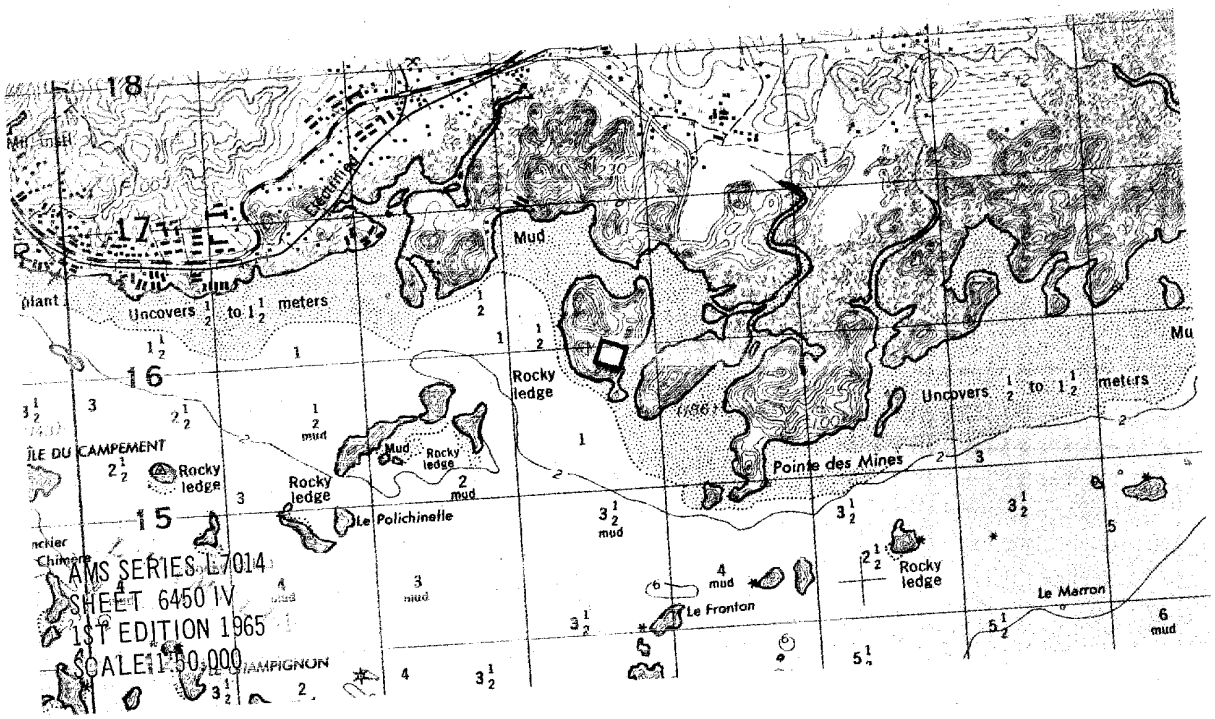
23. Ha Tou Boat Repair Facility, North Vietnam [redacted]

[redacted] located on a small island 1.6 nm south-[redacted]

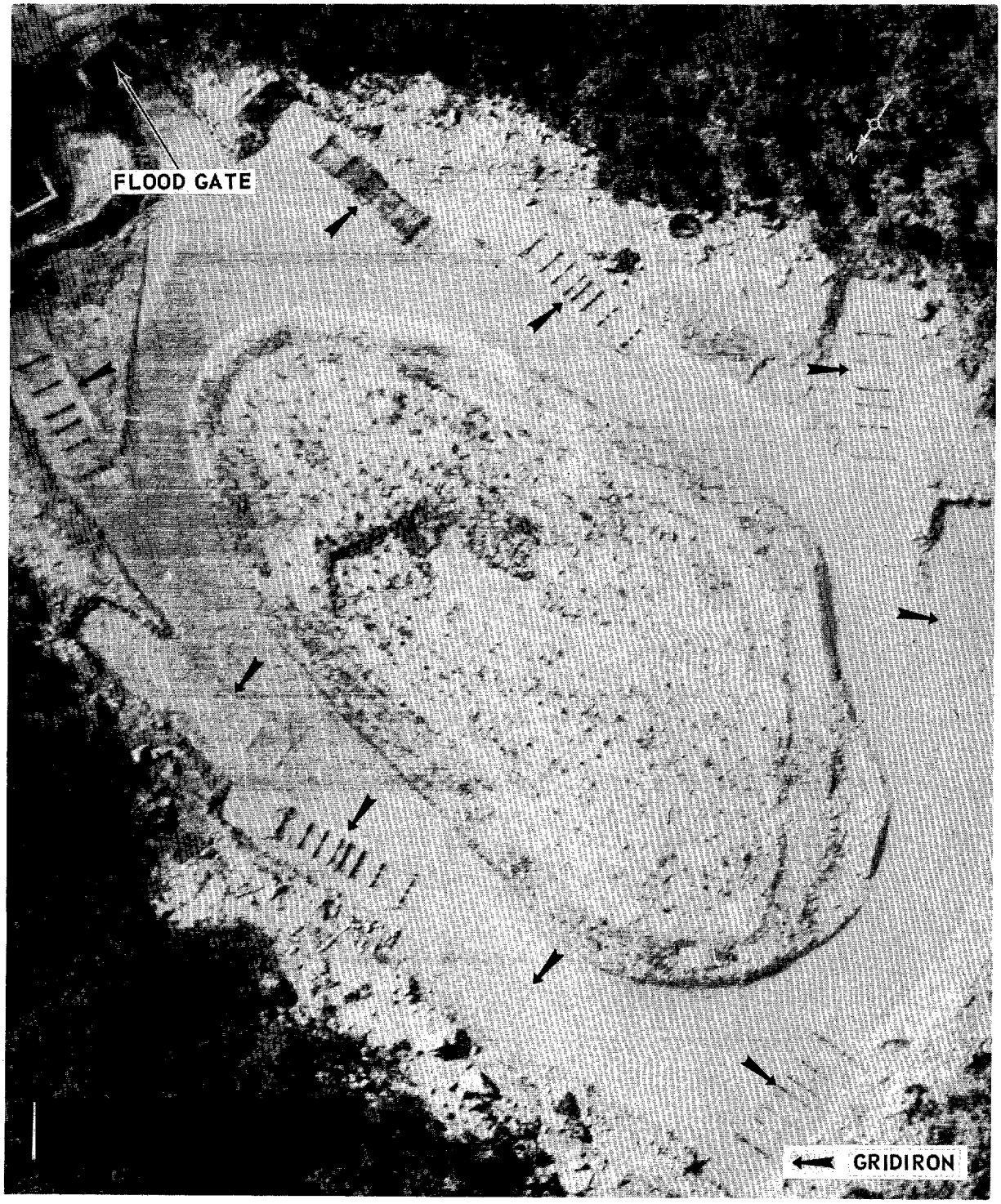
Ha Tou Boat Repair Facility, located [redacted] Situated [redacted] southeast of Ha Tou, is in the early stage of construction. a low area almost completely surrounded by karst ridges, the facility consists of a circular tidal basin lined with nine gridirons (careening grids) in various stages of construction. A partially camouflaged flood gate serves as the entrance to the facility. When the facility is in operation, vessels will be floated in at high tide and positioned over the gridirons. At ebb tide, the vessels rest on the gridirons above water and the flood gate at the narrow opening is closed. The average annual tide in the area is eight feet.

[redacted]

25X1D



[redacted]



25X1D

NPIC L-6596 (1/67)

FIGURE 23. HA TOU BOAT REPAIR FACILITY, NORTH VIETNAM

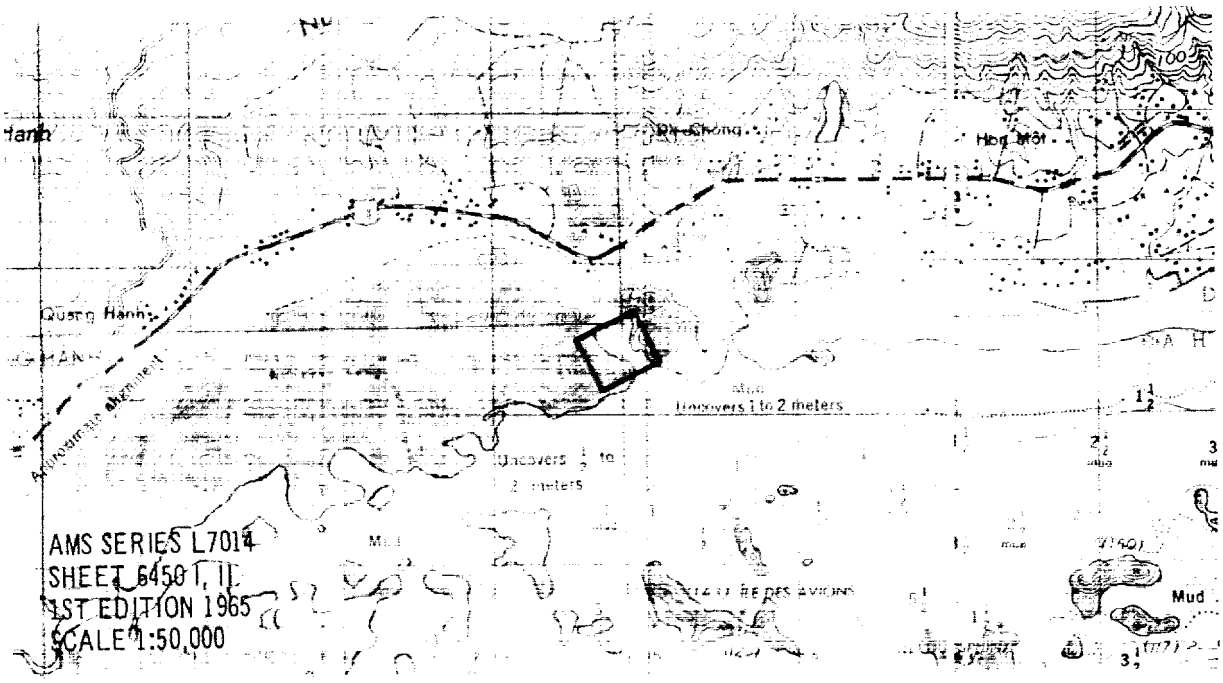
25X1A

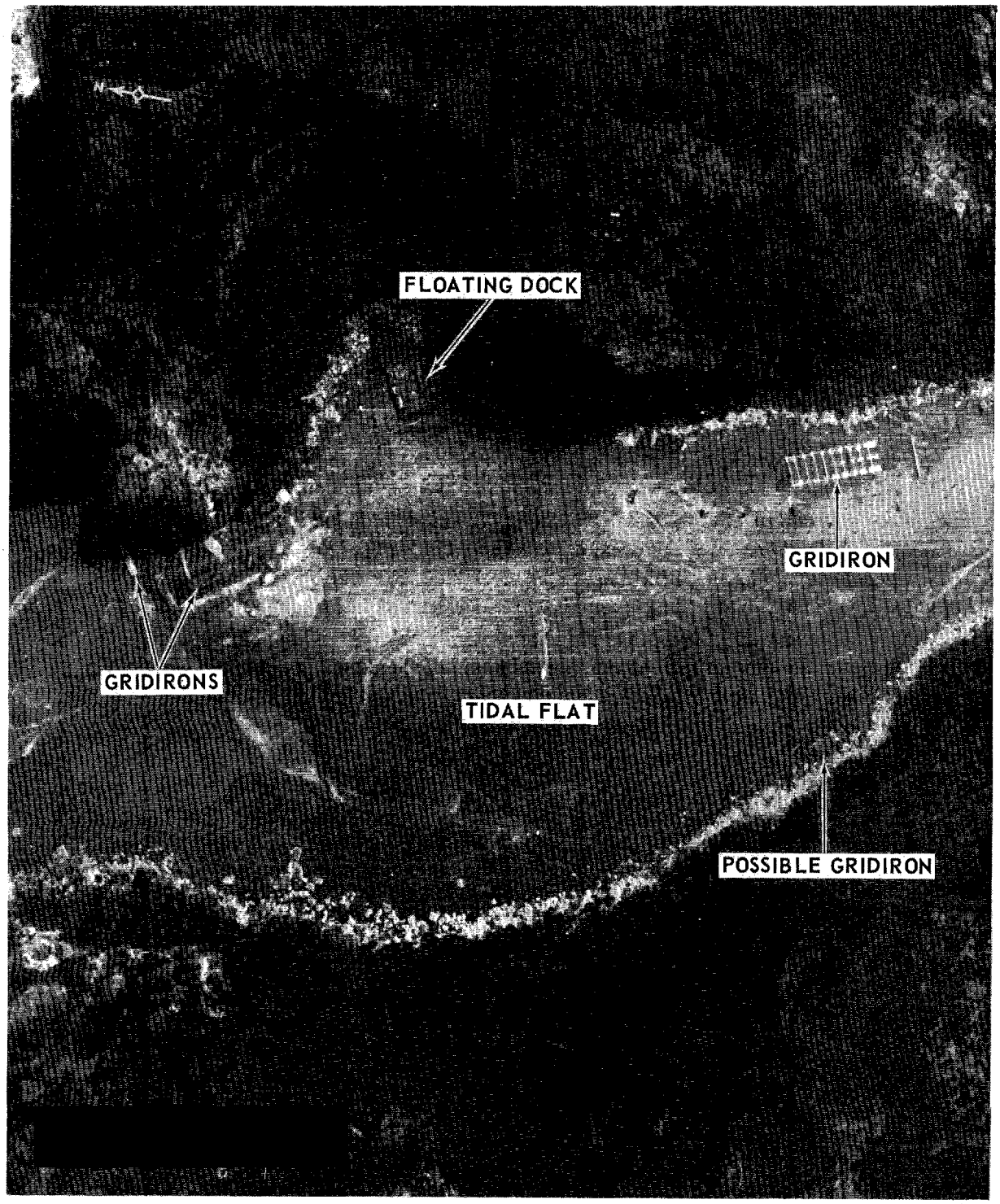
24. Ap Da Chong Barge Yard, North Vietnam [redacted]

Ap Da Chong Barge Yard, located on the Chenal Du Chateau Renaud 10.7 nm east-northeast of Hon Gai Port Facility at UTM YJ339236, consists of a small camouflaged floating dock, three gridirons (careening grids) on a mudflat between two karst hills, and one possible gridiron on the western edge of the tidal flat. Two vessels were observed on gridirons on photography of [redacted]

25X1D

25X1D [redacted]





25X1D

NPIC L-6597 (1/67)

FIGURE 24. AP DA CHONG BARGE YARD, NORTH VIETNAM

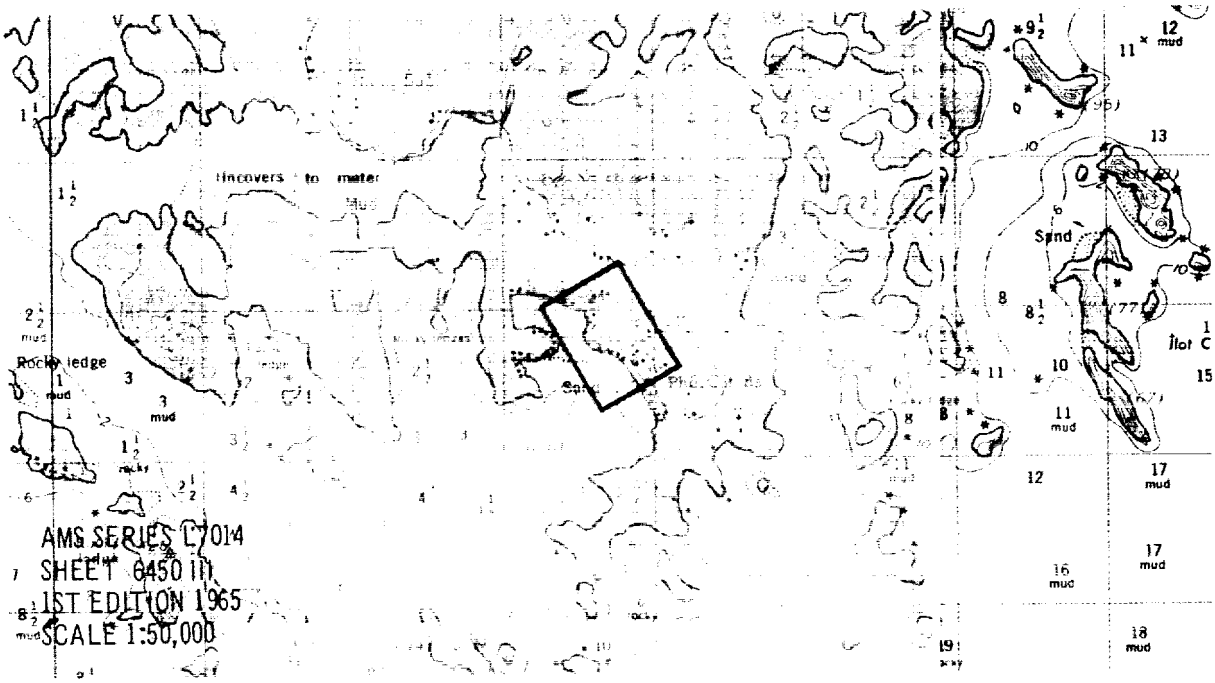
25X1A

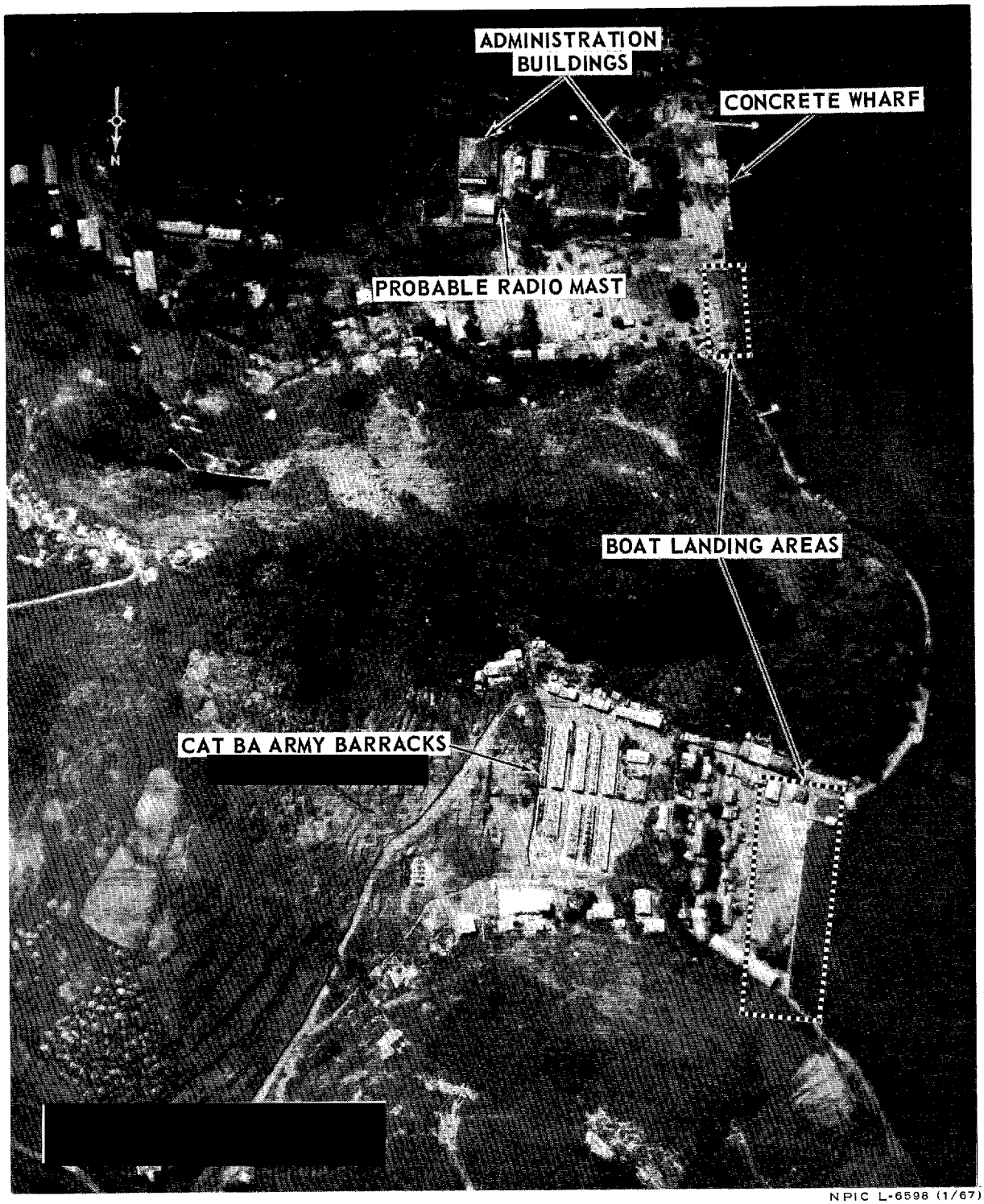
25. Pho Cat Ba Coastal Transshipment Point, North Vietnam [redacted]

Pho Cat Ba, a small village on the southeastern side of Ile Cac-Ba (island), is a center for the fishing industry of the northeastern, island-congested section of North Vietnam. Pho Cat Ba Coastal Transshipment Point, adjacent to the village, consists of two areas on the northeastern shore of Baie D'Apowan (bay). The northern area contains a boat landing adjacent to the damaged Cat Ba Army Barracks [redacted] while the southern area consists of a concrete wharf, a finger pier, a boat landing, several administration buildings, and a probable radio station.

25X1A

25X1D [redacted]





NPIC L-6598 (1/67)

25X1A

25X1D

FIGURE 25. PHO CAT BA COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM

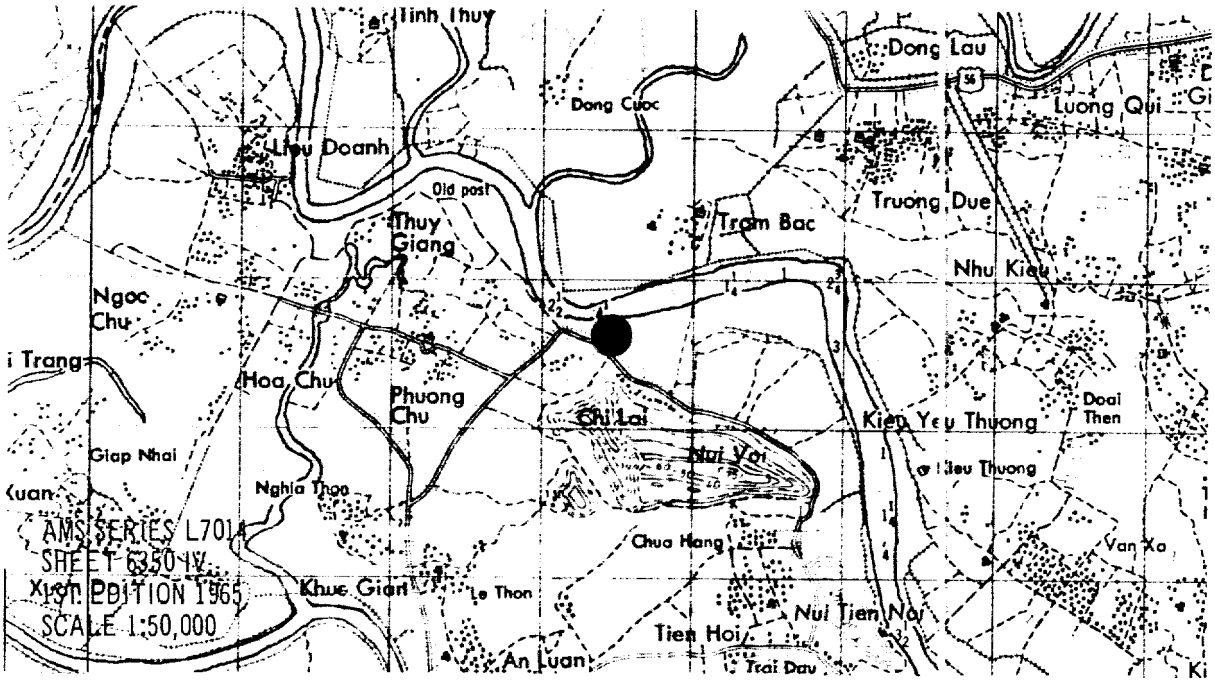
25X1A

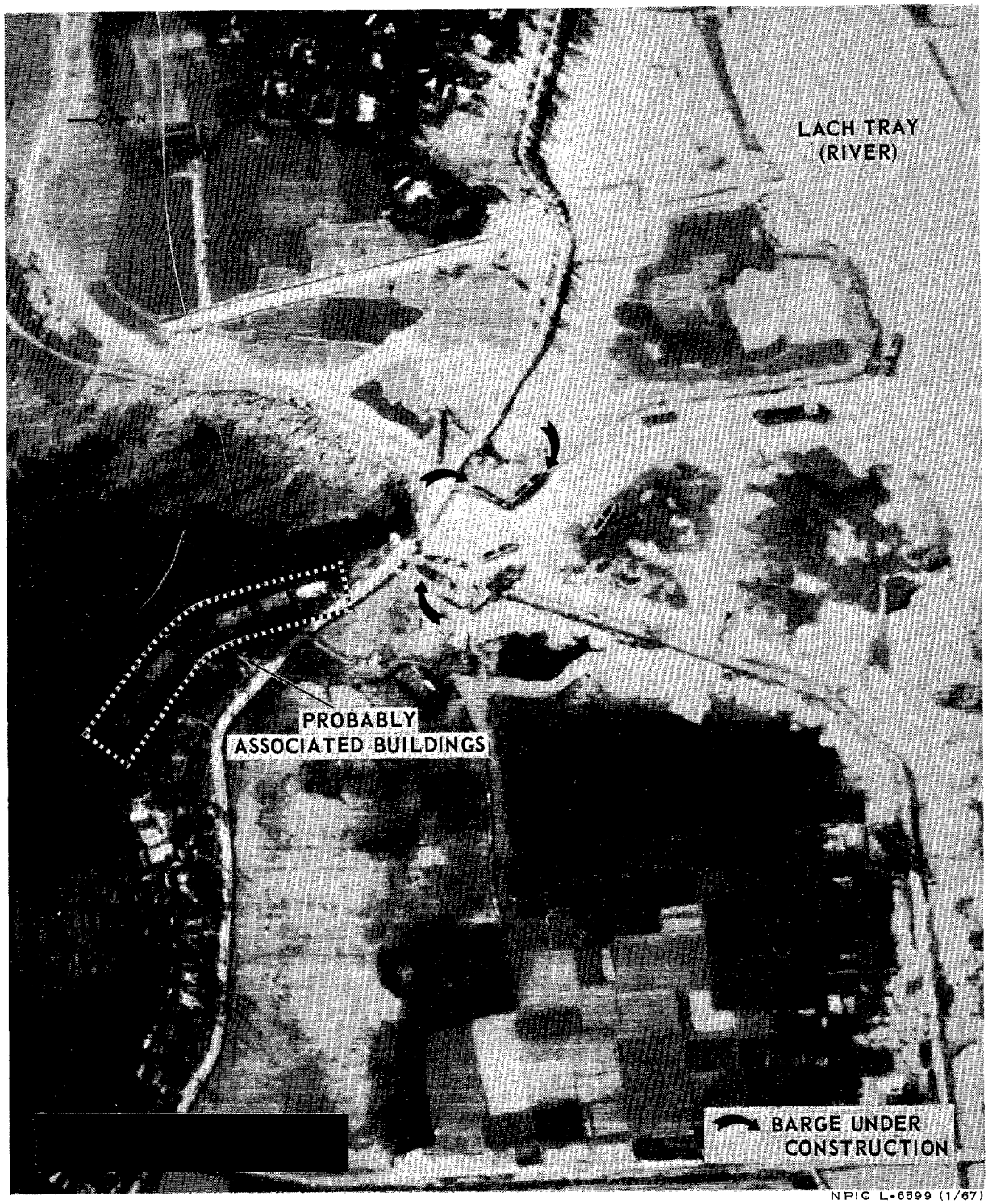
26. Kien An Shipyard, Phuong Chu, North Vietnam [redacted]

Kien An Shipyard, located 0.6 nm east of Phuong Chu and 7 nm west-southwest of Hai Phong at UTM XJ634056, contains three building ways with a capacity to hold vessels up to 100 feet in length. Other facilities include two support sheds in the yard and five probably associated buildings across the road. Photography of [redacted] revealed three barges under construction on the ways, one tug boat, four barges, three ferry boats (two without planking), and one self-propelled barge.

25X1D

25X1D [redacted]





NPIC L-6599 (1/67)

25X1D

FIGURE 26. KIEN AN SHIPYARD, PHUONG CHU, NORTH VIETNAM

27. Hai Phong Shipyard No. 4 Dancette, North Vietnam [redacted]

Hai Phong Shipyard No. 4 Dancette, located on the south bank of the Cua Cam (channel) at UTM XJ743081, is the largest shipbuilding/repair installation in North Vietnam. The shipyard is currently utilized as a maintenance facility for naval vessels, particularly the Swatow-class PGM. The facility consists of four marine railways, a graving dock, an L-head pier, a portal crane, two small fixed jib cranes, and 10 support buildings. The yard has a capacity to build vessels up to 2,000 GRT. On photography of [redacted] two Swatow-class PGM, two YP, one coastal freighter, one trawler, one floating shearlegs crane, and one bucket dredge were observed. [redacted]

25X1D
25X1D

28. Hai Phong Ship Repair Yard No. 1, North Vietnam [redacted] 25X1A

Located on the Cua Cam (channel) at UTM XJ774088, Hai Phong Ship Repair Yard No. 1 appears to be a significant barge-building yard as well as a repair yard. The facility consists of two marine railways, a boat-house with two small marine railways, and berthing for five barges. [redacted]

25X1D

25X1A

29. Hai Phong Ship Repair Yard No. 3 Sauvage, North Vietnam ([redacted] 25X1A
[redacted]

Hai Phong Ship Repair Yard No.3 Sauvage, is located at the confluence of the Compure de Ha Ly and the Song Tram (rivers) at UTM XJ743069. The yard consists of two graving docks, one launching basin, four floating fitting out wharves, and four probable shops. [redacted]

25X1D

25X1A

30. Hai Phong Ship Repair Yard No. 2 Sacric, North Vietnam [redacted] 25X1A
[redacted]

Hai Phong Ship Repair Yard No. 2 Sacric, located on the west bank of the Song Tram Bac (river) at UTM XJ738067, consists of two graving docks and a launching basin. The yard is apparently also engaged in barge building. [redacted]

25X1D

25X1A

31. Hai Phong Shipyard Vinh Khe, North Vietnam [redacted]

Hai Phong Shipyard Vinh Khe, located on the west bank of the Song Dao Lach Tray (river) at UTM XJ732061, is a small shipbuilding facility consisting of at least two marine railways. On photography of [redacted], a ferry boat in the late stage of construction and a partially completed barge were observed on the railways. [redacted]

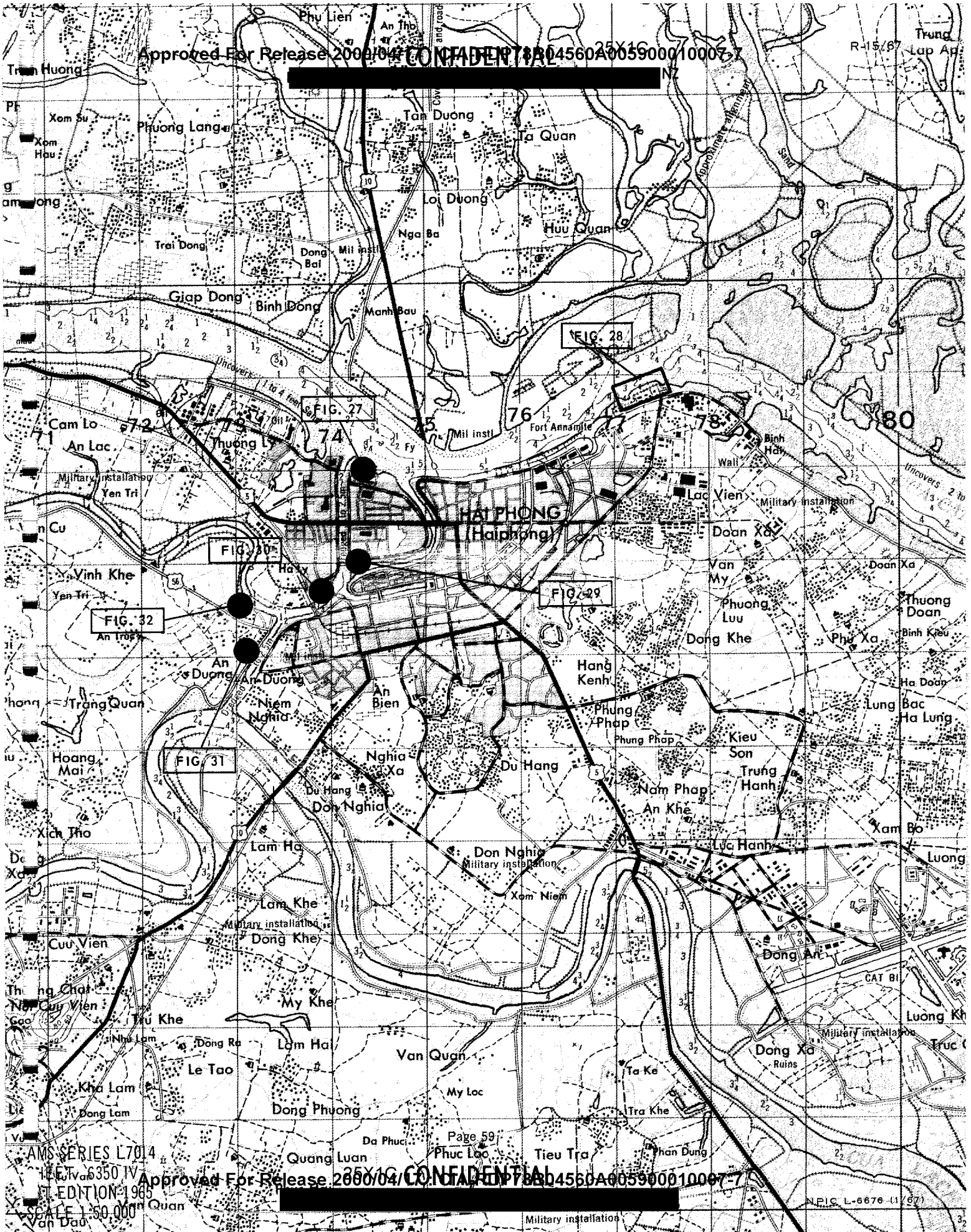
25X1D
25X1D

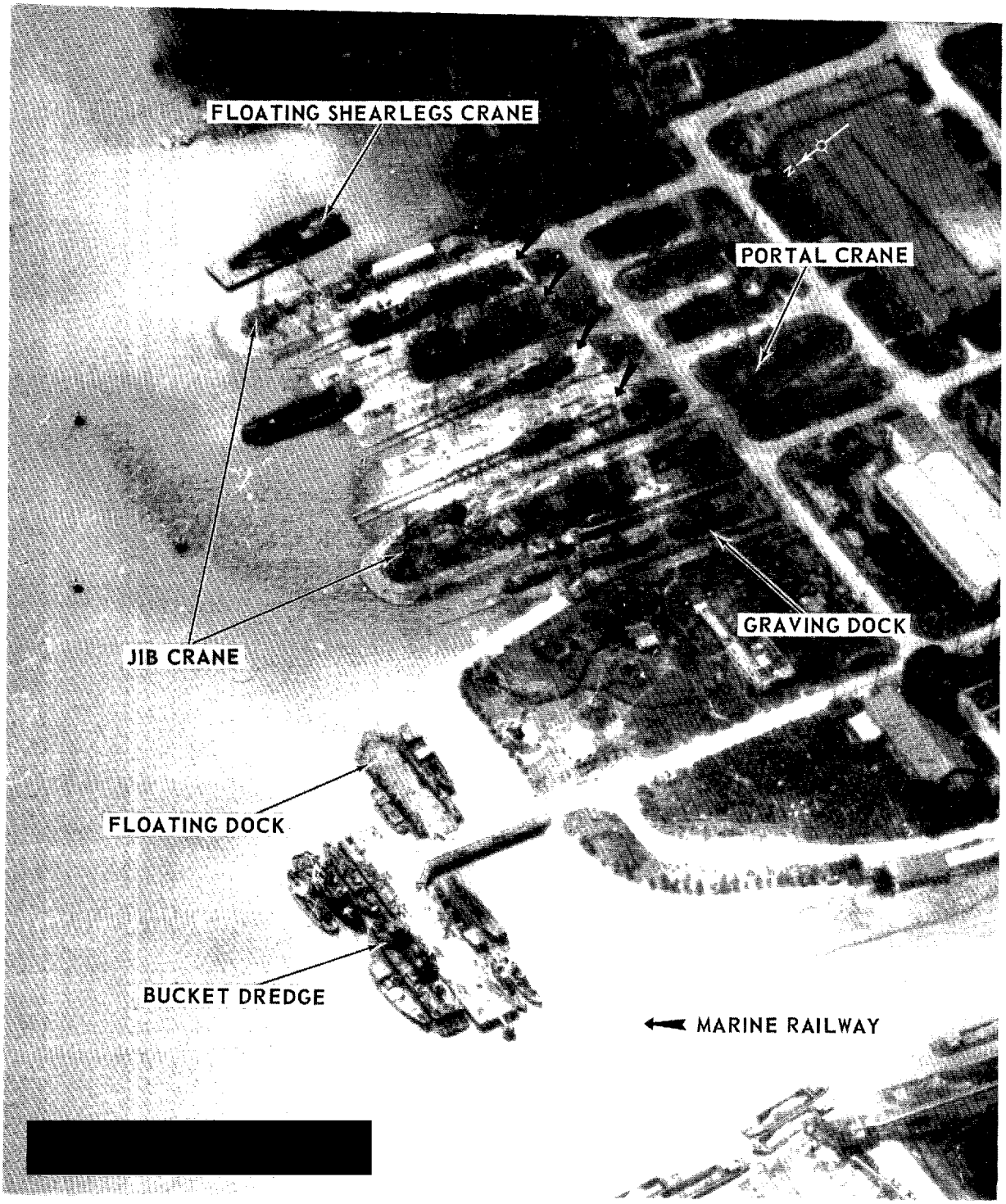
25X1A

32. Hai Phong Shipyard West, North Vietnam [redacted]

Hai Phong Shipyard West, located on the west bank of the Song Tram Bac (river) at UTM XJ732065, consists of two graving docks, two covered building ways, a basin, and 16 support buildings (eight shown on Figure 32). Seven self-propelled river barges, three vehicle ferries, one other vessel under construction, and nine small river craft were observed on photography of [redacted] [redacted]

25X1D
25X1D

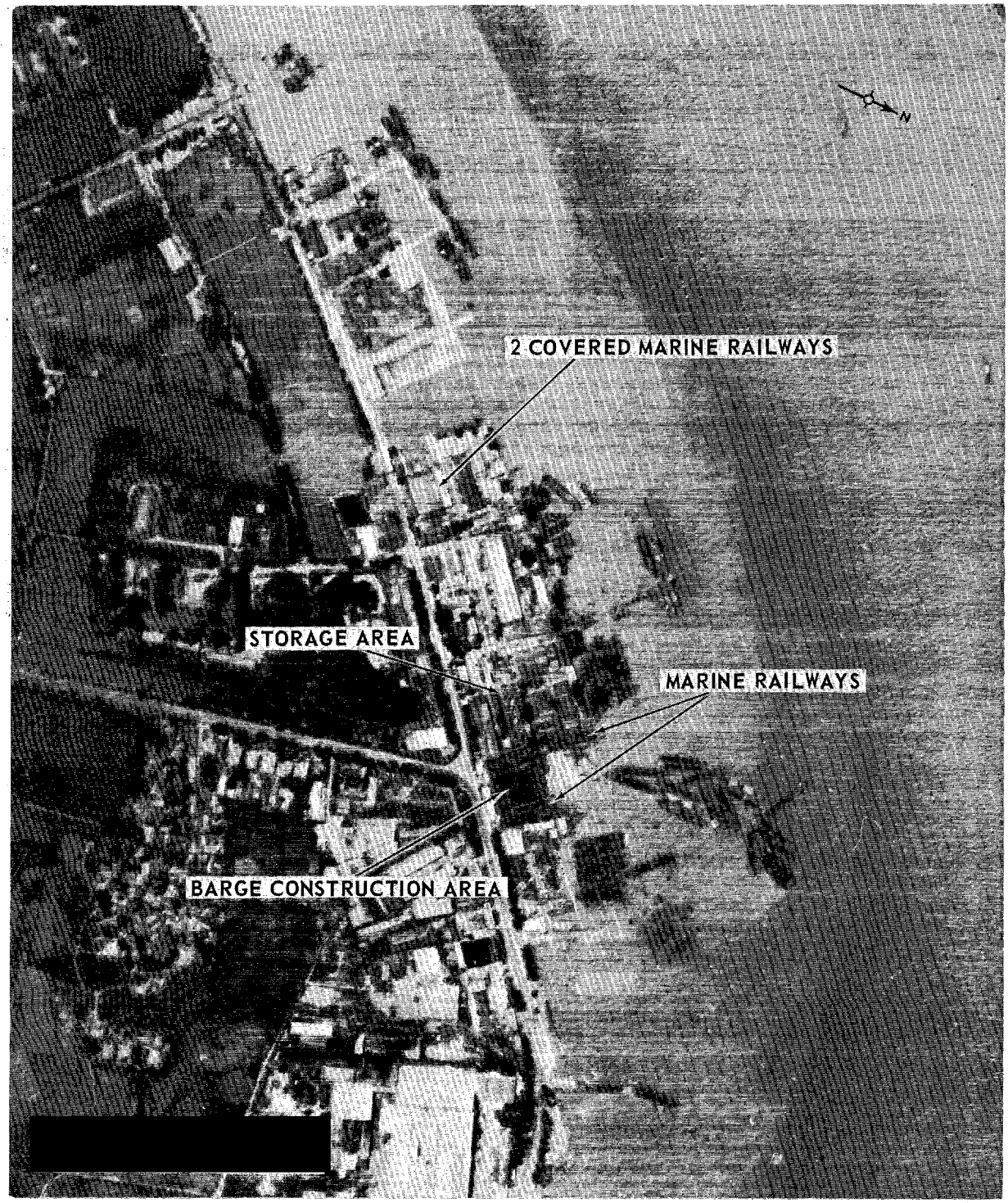




NPIC L-6600 (1/67)

25X1D

FIGURE 27. HAI PHONG SHIPYARD NO. 4 DANCETTE, NORTH VIETNAM



[redacted]

NPIC L-6601 (1/67)

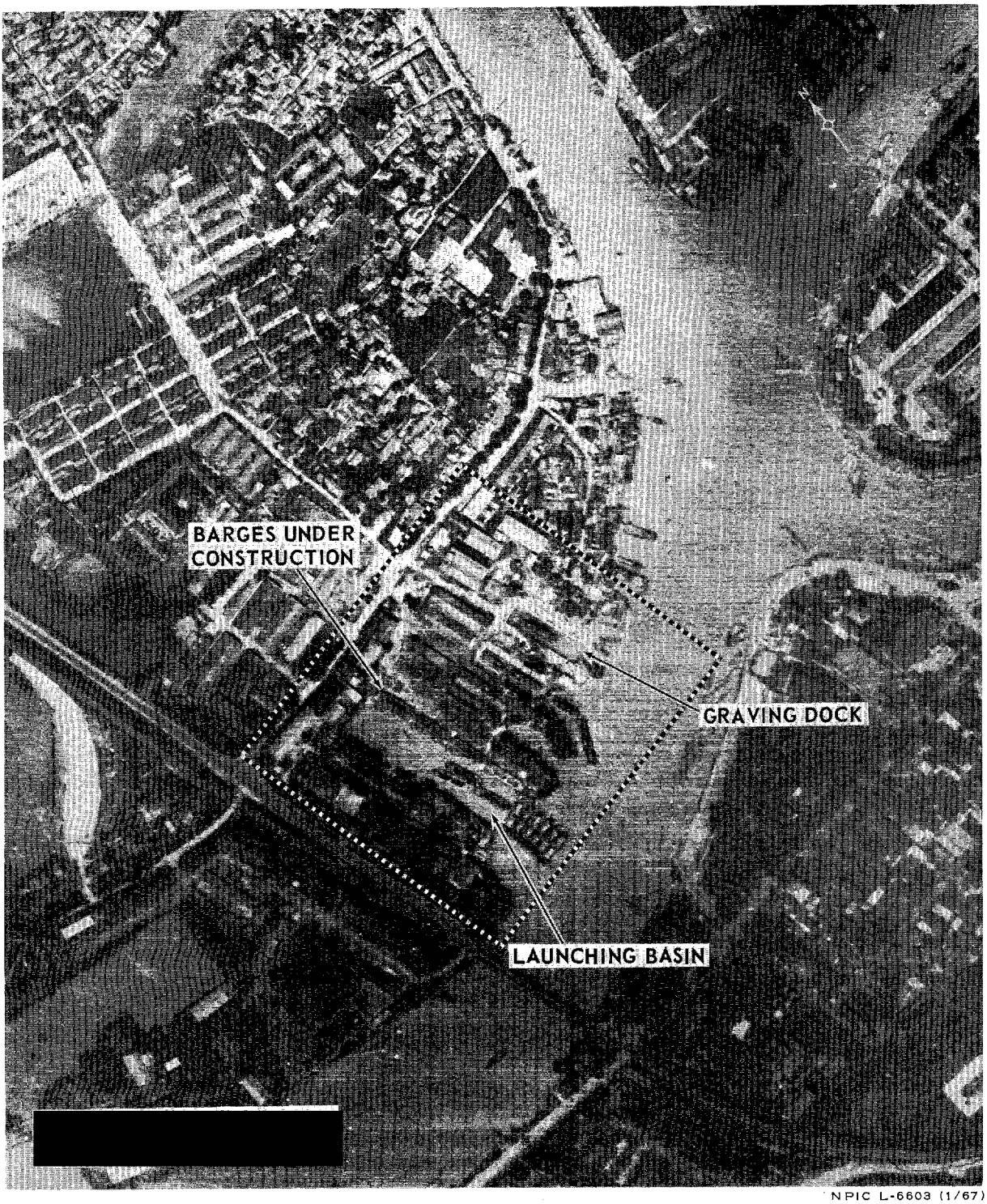
25X1D

FIGURE 28. HAI PHONG SHIP REPAIR YARD NO. 1, NORTH VIETNAM

[redacted]

NPIC L-6602 (1/67)

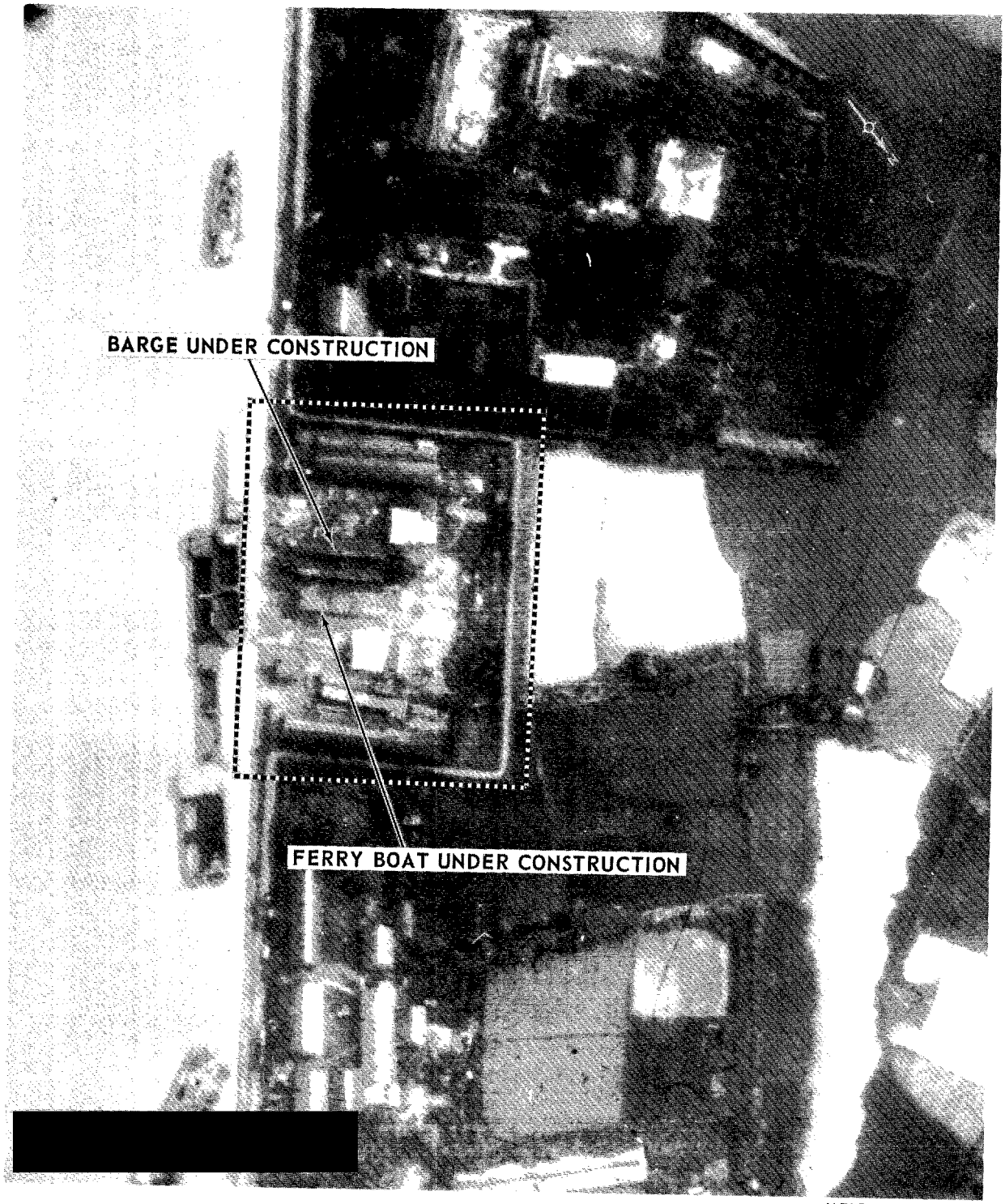
25X1D FIGURE 29. HAI PHONG SHIP REPAIR YARD NO. 3 SAUVAGE, NORTH VIETNAM



[redacted]

NPIC L-6603 (1/67)

25X1D *FIGURE 30. HAI PHONG SHIP REPAIR YARD NO. 2 SACRIC, NORTH VIETNAM.*



[redacted]

NPIC L-6604 (1/67)

25X1D

FIGURE 31. HAI PHONG SHIPYARD VINH KHE, NORTH VIETNAM

NPIC L-6605 (1/67)

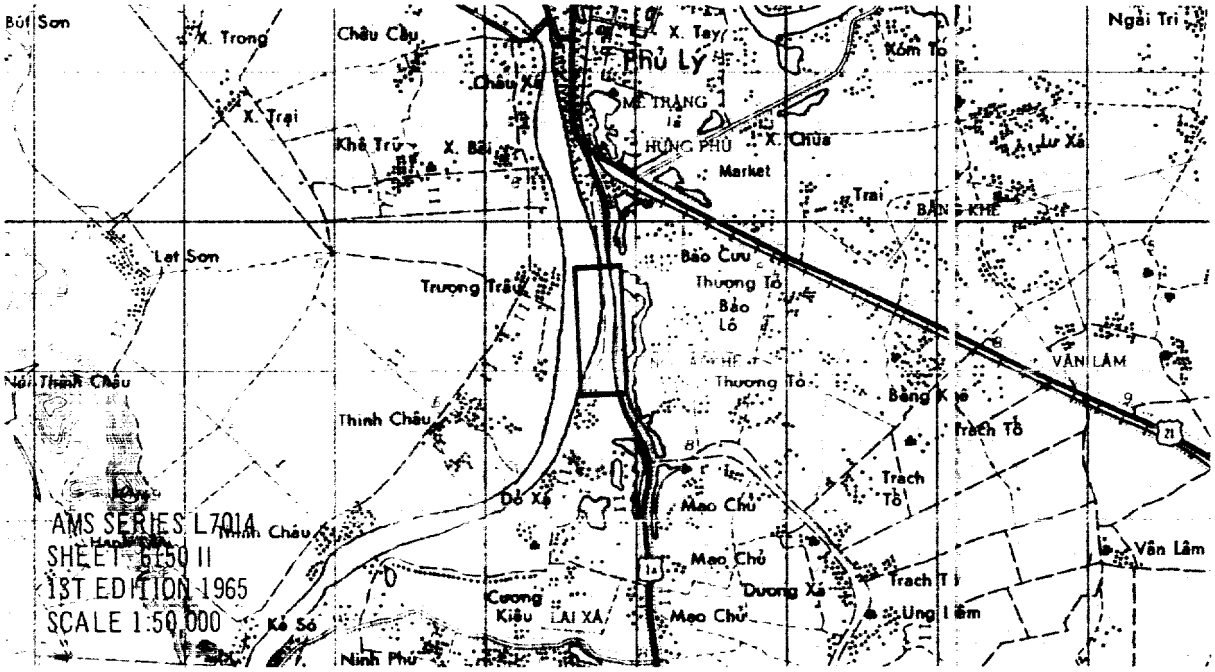
25X1D

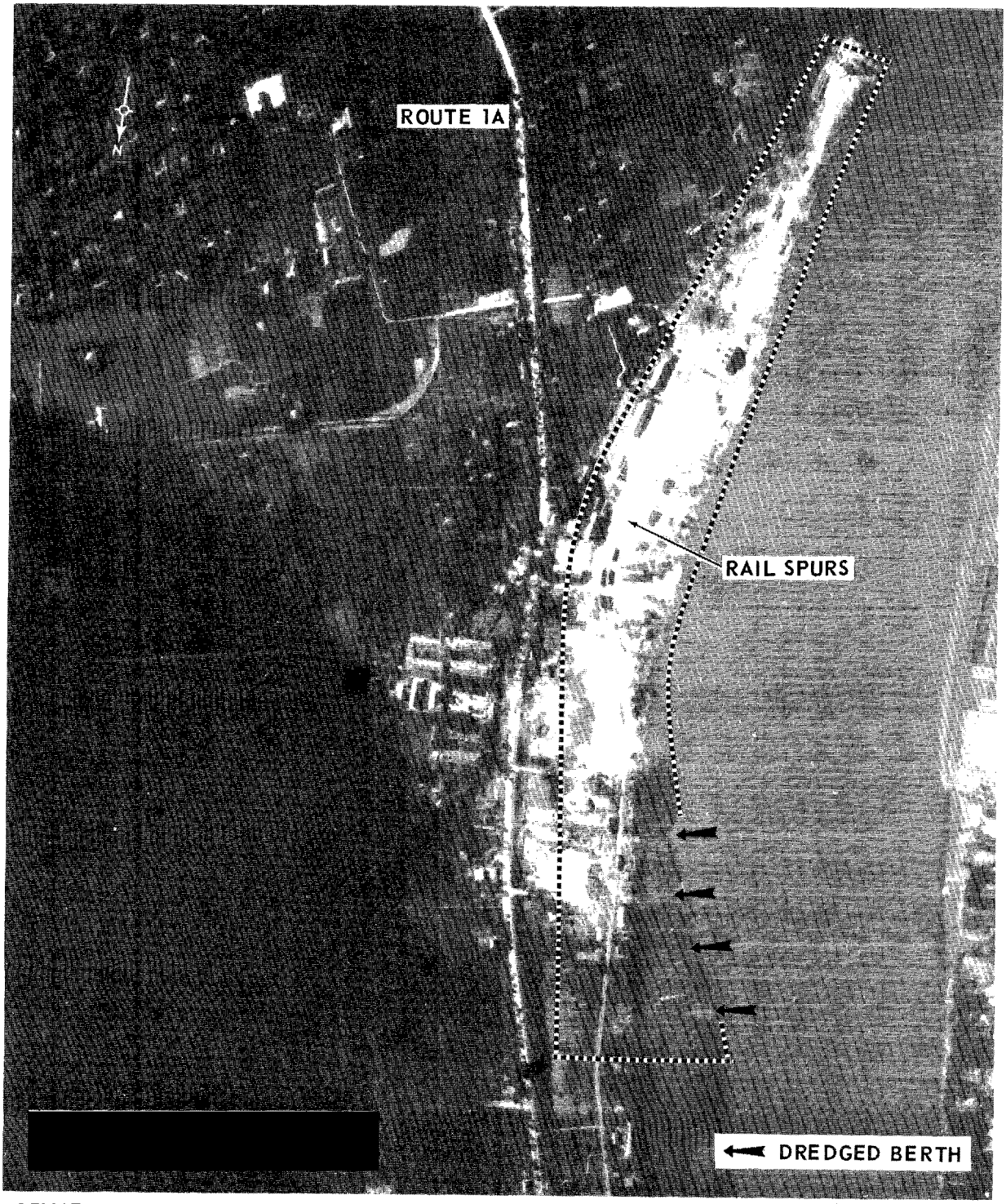
FIGURE 32. HAI PHONG SHIPYARD WEST, NORTH VIETNAM

25X1A 33. Phu Ly Transshipment Point, Song Day, North Vietnam [redacted]

Phy Ly Transshipment Point, located on the east bank of the Song Day (river), consists of 12 support buildings and four boat landings served by two rail spurs and Route 1A. The boat landings are large enough to serve self-propelled river barges.

25X1D [redacted]





[redacted]

25X1D

NPIC L-6606 (1/67)

FIGURE 33. PHU LY TRANSSHIPMENT POINT, SONG DAY, NORTH VIETNAM

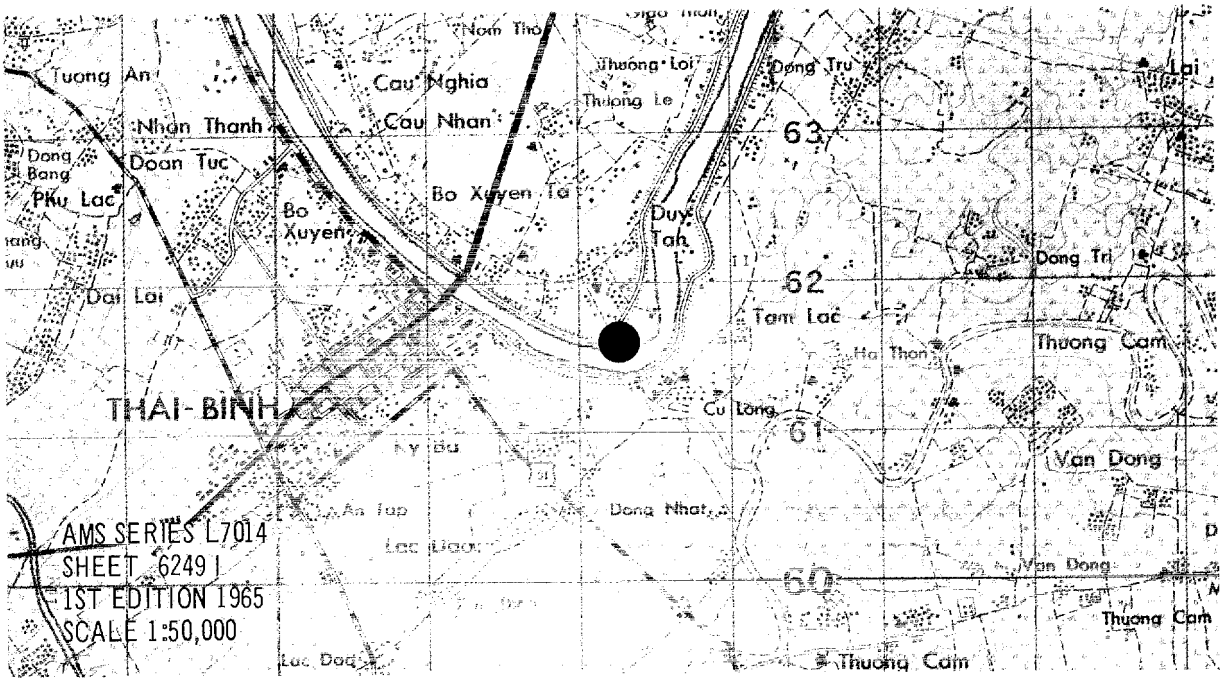
25X1A

34. Thai Binh Boat Yard, North Vietnam [redacted]

Thai Binh Boat Yard, located on the north bank of the Song Tra Ly (river) at UTM XH423616, is primarily a building/repair facility for small boats. The facility consists of at least two ways, one covered building shed, and four support buildings.

25X1D

[redacted]



NPIC L-6607 (1/67)

25X1D

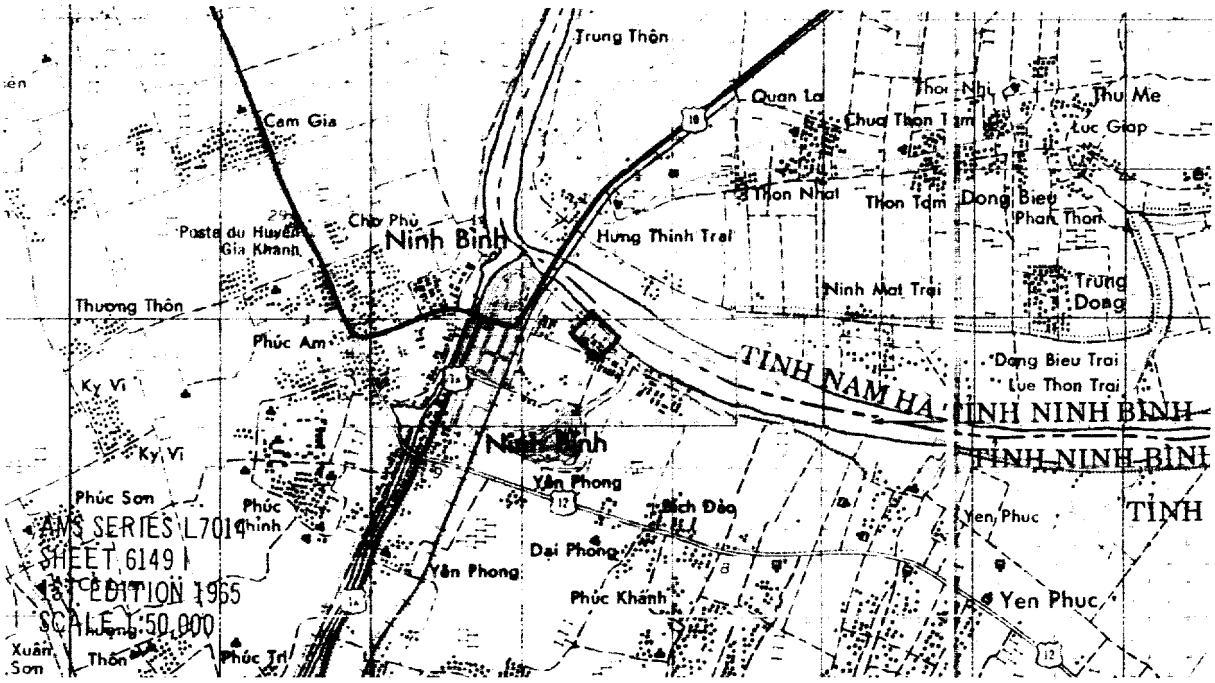
FIGURE 34. THAI BINH BOAT YARD, NORTH VIETNAM

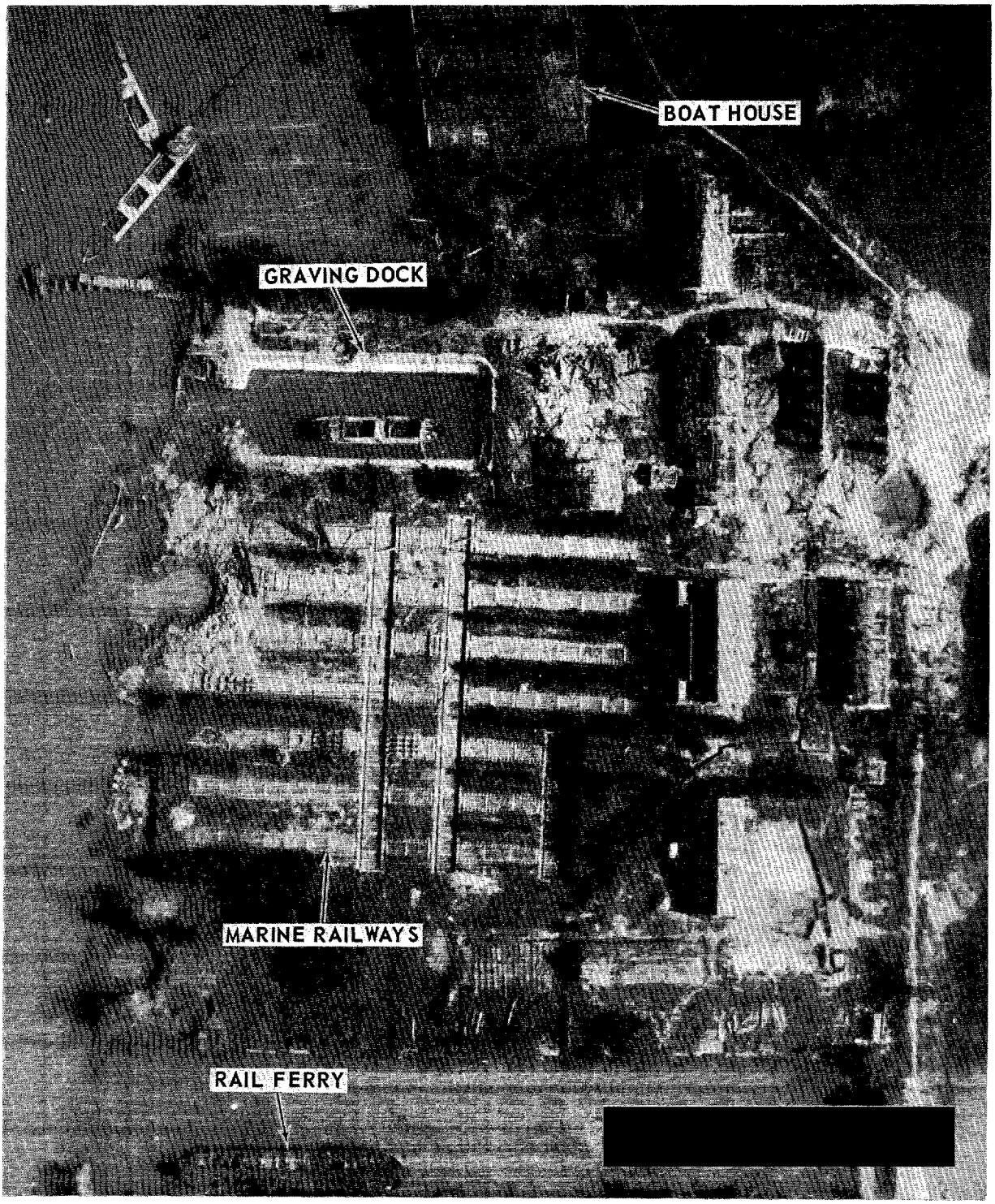
25X1A

35. Ninh Binh Ship Repair Yard, North Vietnam ([redacted]

Ninh Binh Ship Repair Yard, located on the Song Day (river) 0.3 nm east of Ninh Binh at UTM XH035039, consists of seven marine railways, a graving dock capable of serving two cargo barges, a two-bay boathouse, a sheltered mooring basin, and eight small buildings (two destroyed, five with extensive roof damage, and two with minor roof damage). Entrances to the marine railways and the graving dock have been cratered.

25X1D [redacted]





[redacted] 25X1D

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FIGURE 35. NINH BINH SHIP REPAIR YARD, NORTH VIETNAM

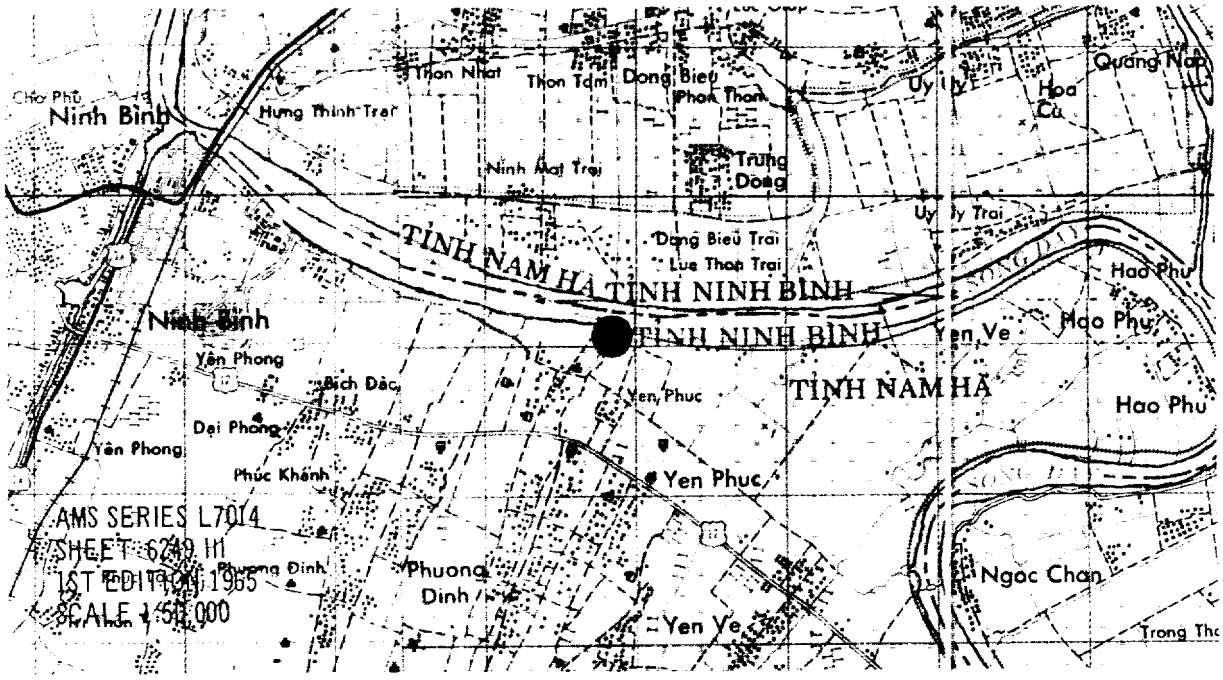
[redacted]

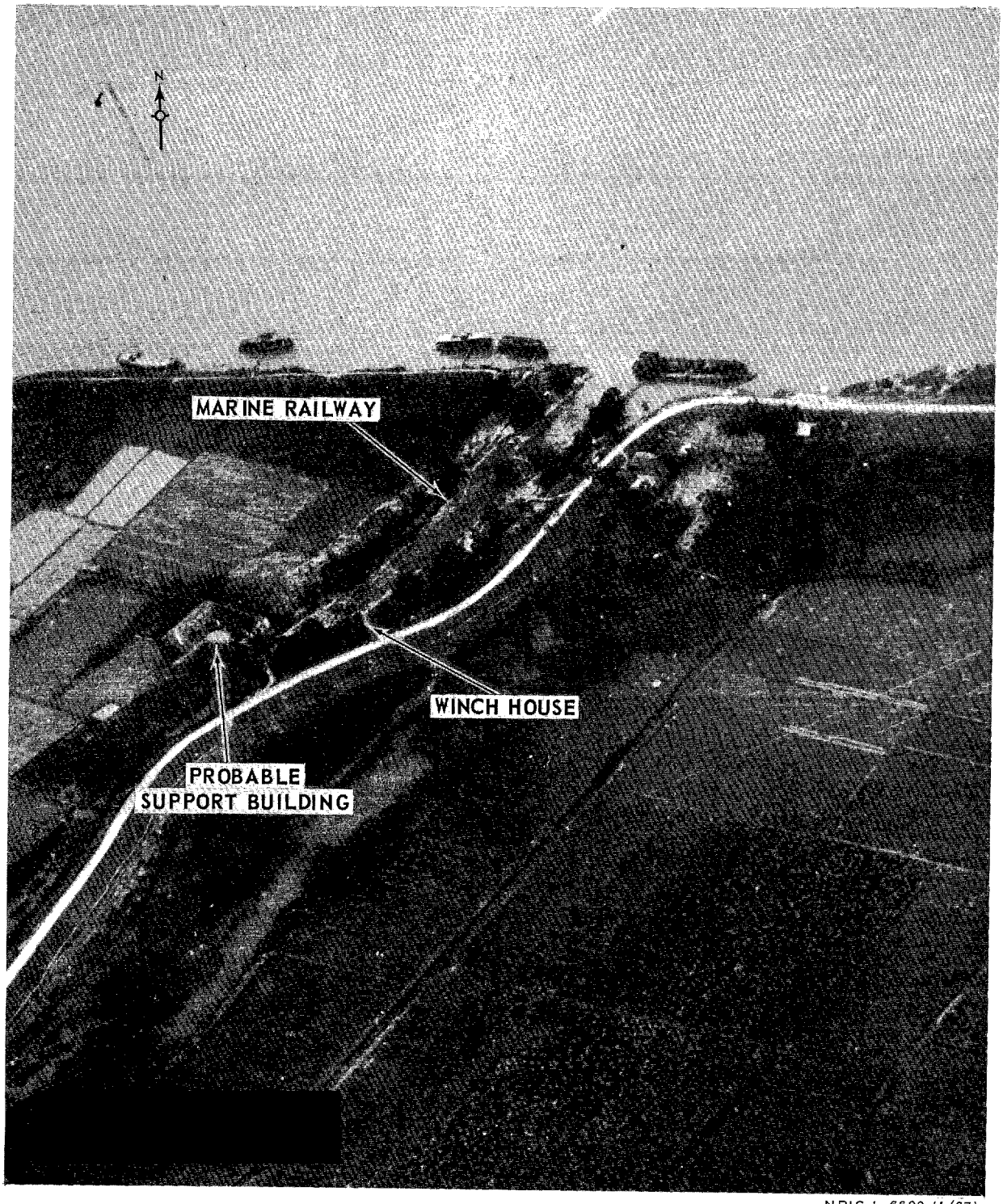
25X1A

36. Yen Phuc Barge Yard, North Vietnam [redacted]

Yen Phuc Barge Yard, located on the south bank of the Song Day (river) at UTM XH058391, consists of a single marine railway for minor repair on barges or river craft, a single winch house at the head of the railway, and an L-shaped probable support building.

25X1D [redacted]





25X1D

NPIC L-6609 (1/67)

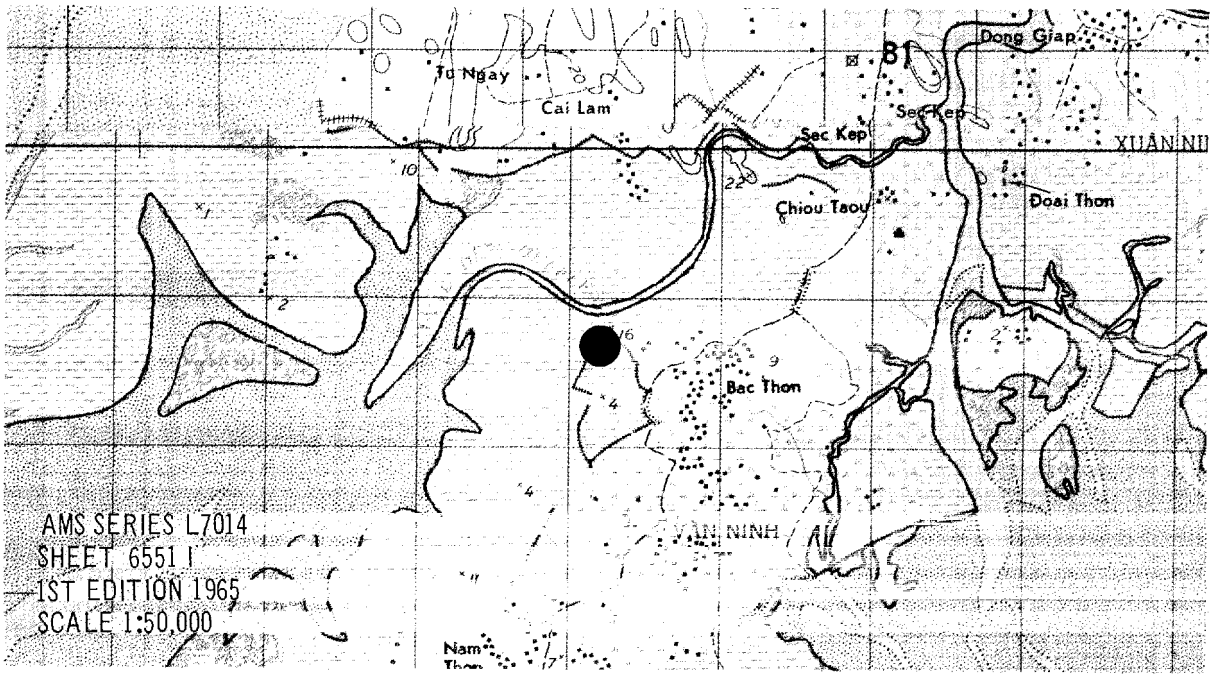
FIGURE 36. YEN PHUC BARGE YARD, NORTH VIETNAM.

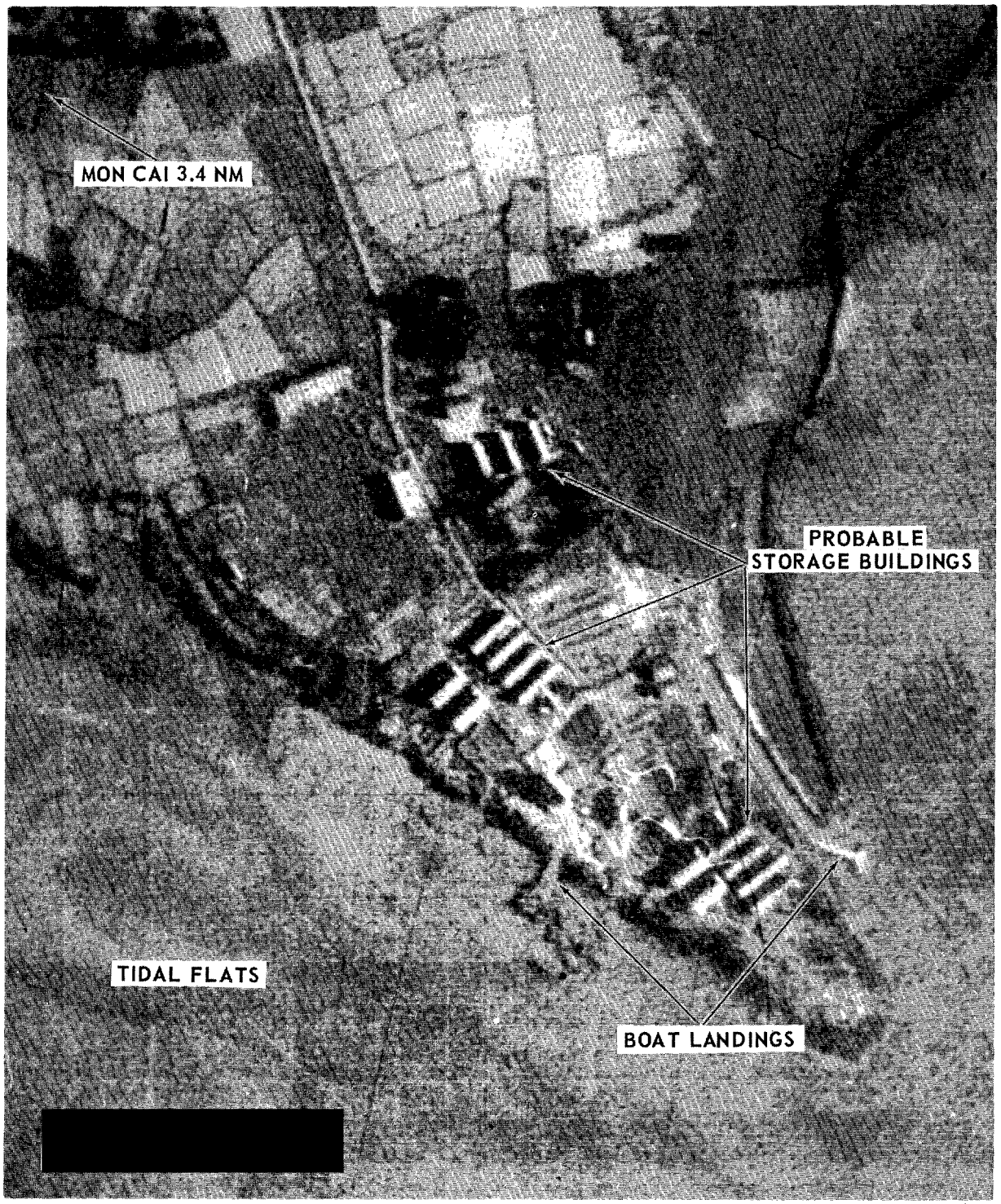
25X1A

37. Nam Thon Coastal Transshipment Point, North Vietnam [redacted]

Nam Thon Coastal Transshipment Point, located 3.5 nm south-southwest of Mon Cai on the tidal flats at UTM ZJ051784, consists of two boat landings, an open storage area, 15 probable storage buildings, and nine support buildings. An unnumbered road extending from Route 4 serves the area.

25X1D [redacted]





NPIC L-6610 (1/67)

25X1D

FIGURE 37. NAM THON COASTAL TRANSSHIPMENT POINT, NORTH VIETNAM

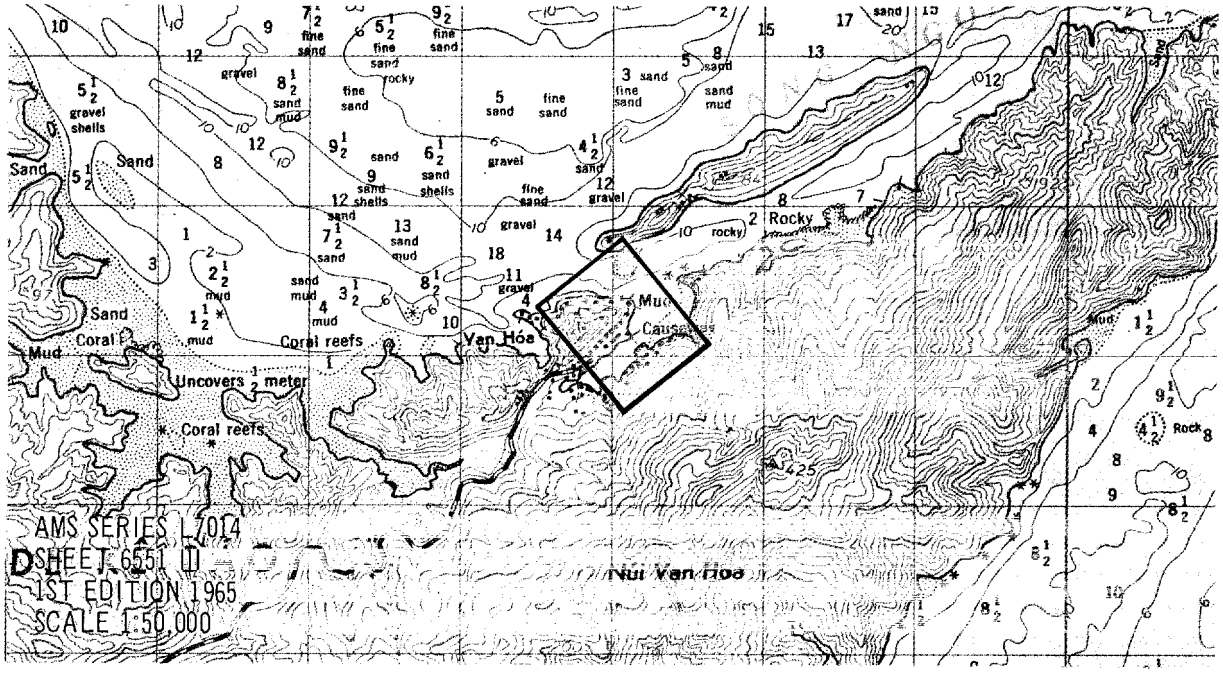
25X1A

38. Port Wallut Naval Base and Shipyard, North Vietnam [redacted]

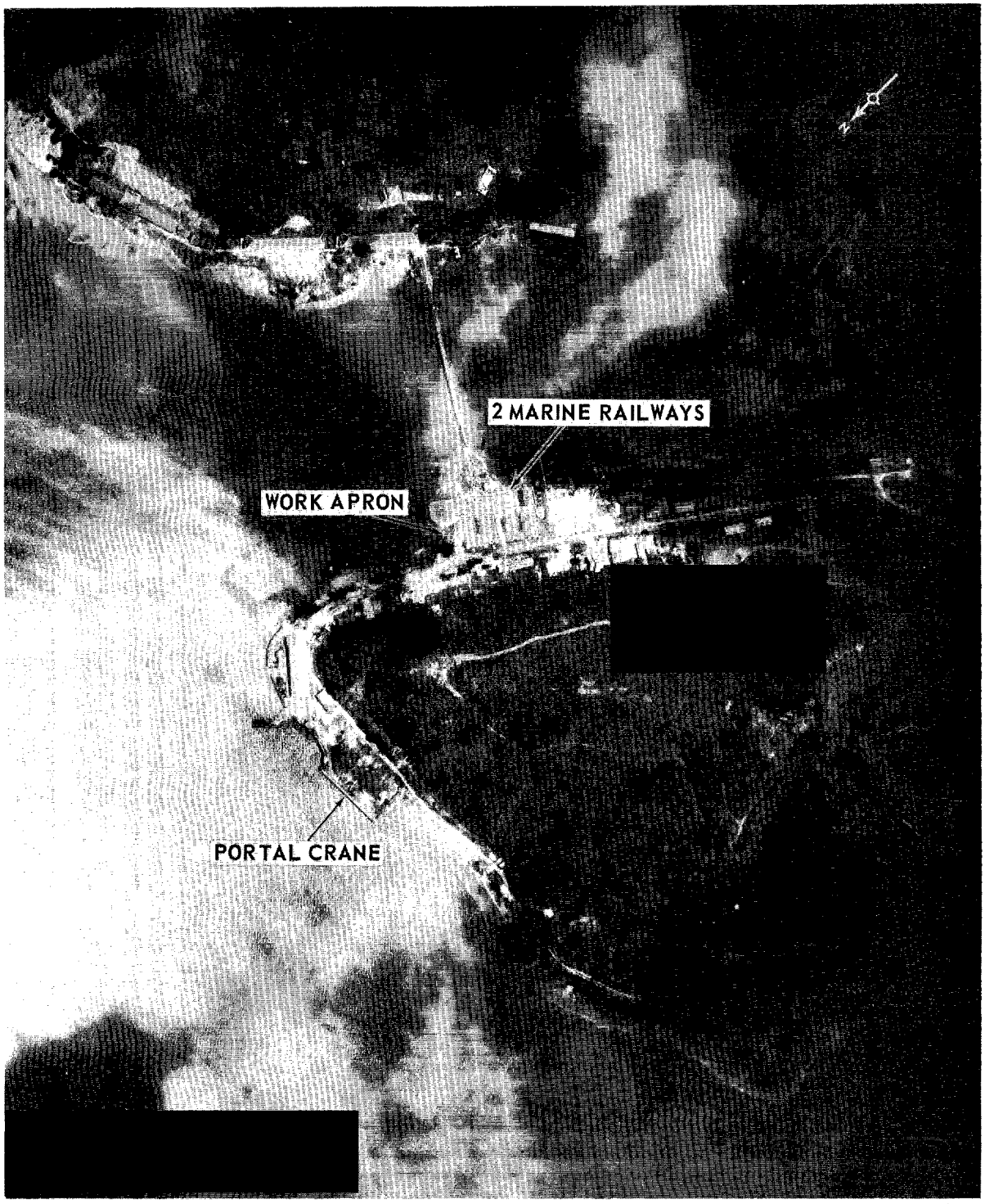
Port Wallut Naval Base and Shipyard is located at UTM XJ671462 on the northeastern coast of Ile de Ke-Bao (island), 15 nm northeast of Cam Pha, and consists of a 190-foot-long concrete wharf, two 230-foot-long marine railways, and an adjacent apron approximately 230 feet long. Thirteen support buildings and a cave are probably associated with the yard. Photography of [redacted] revealed a portal crane on the wharf.

25X1D

25X1D [redacted]



[redacted]



25X1D

[redacted]

25X1D

NPIC L-6611 (1/67)

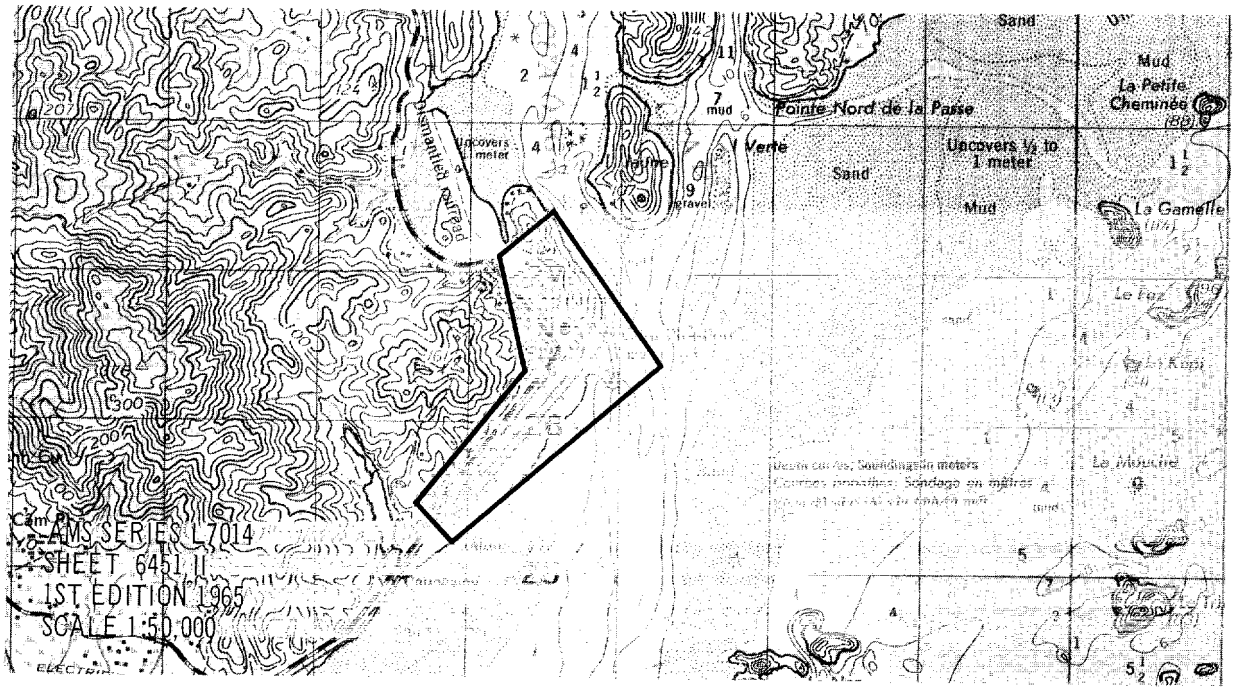
FIGURE 38. PORT WALLUT NAVAL BASE AND SHIPYARD, NORTH VIETNAM

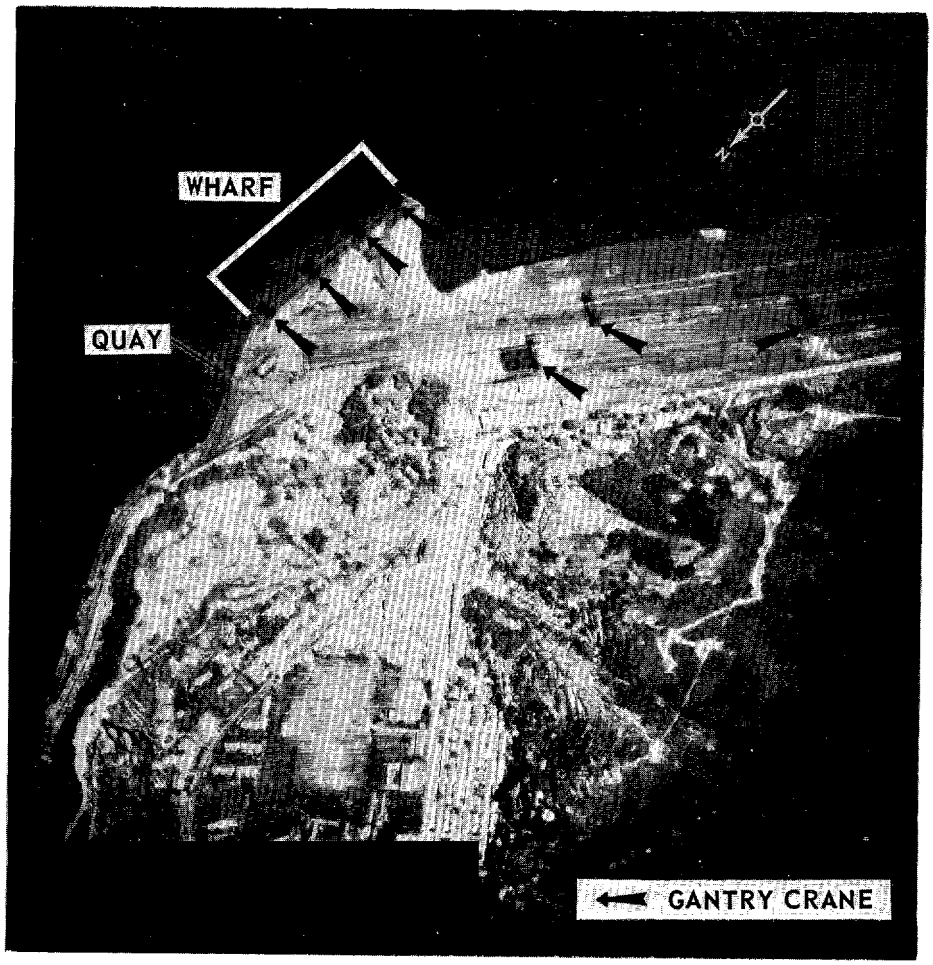
[redacted]

25X1A

39. Cam Pha Port Facilities, North Vietnam [redacted]

Cam Pha Port Facilities, located on the Gulf of Tonkin 40.5 nm east-northeast of Hai Phong at UTM YJ469263, is one of the three major sea ports in North Vietnam. With a main wharf nearly 1,000 feet long containing four large gantry cranes, the port is capable of serving deep-draft ocean-going vessels. The primary cargo from the port is coal brought by rail from mines in the vicinity. A large coal storage area (approximately 2,800 x 360 ft) with four large bridge transporter cranes (three shown on Figure 39) is located near the wharf. Other coal facilities not shown in Figure 39 include a coal treatment plant which straddles the tracks entering the storage area and a small rail yard containing hopper car repair shops. The rail yard is in the western extremity of the storage area. The port also has a quay to berth barges, lighters, and other shallow-draft vessels.





25X1D

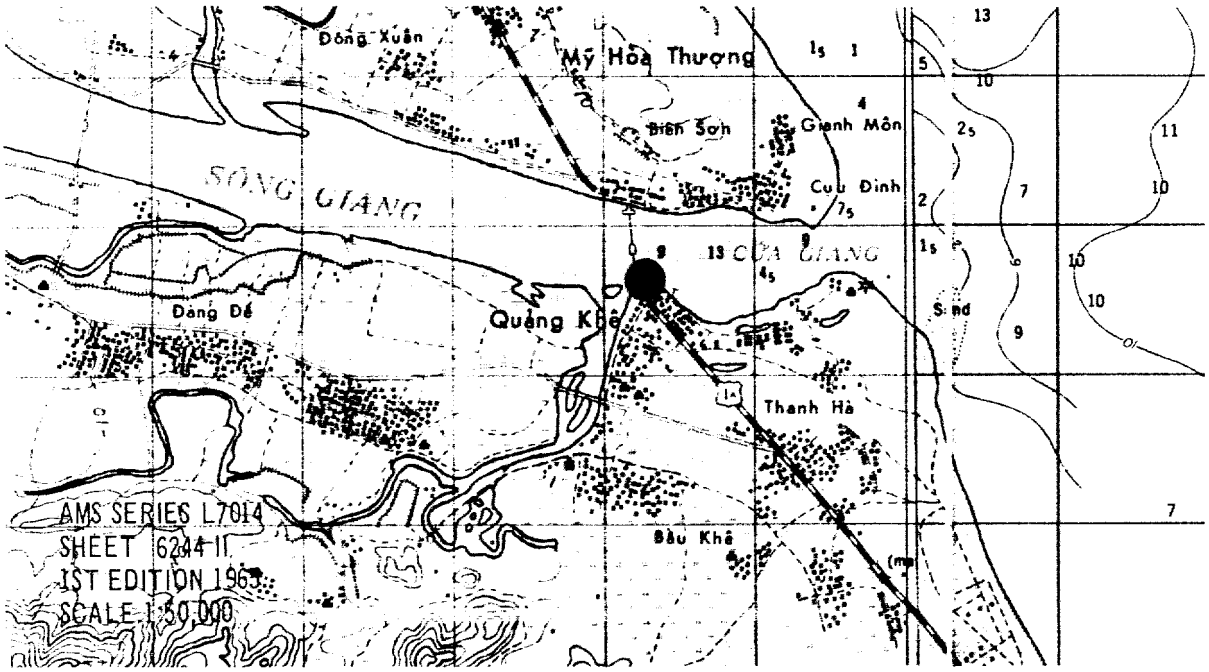
NPIC L-6612 (1/67)

FIGURE 39. CAM PHA PORT FACILITIES, NORTH VIETNAM

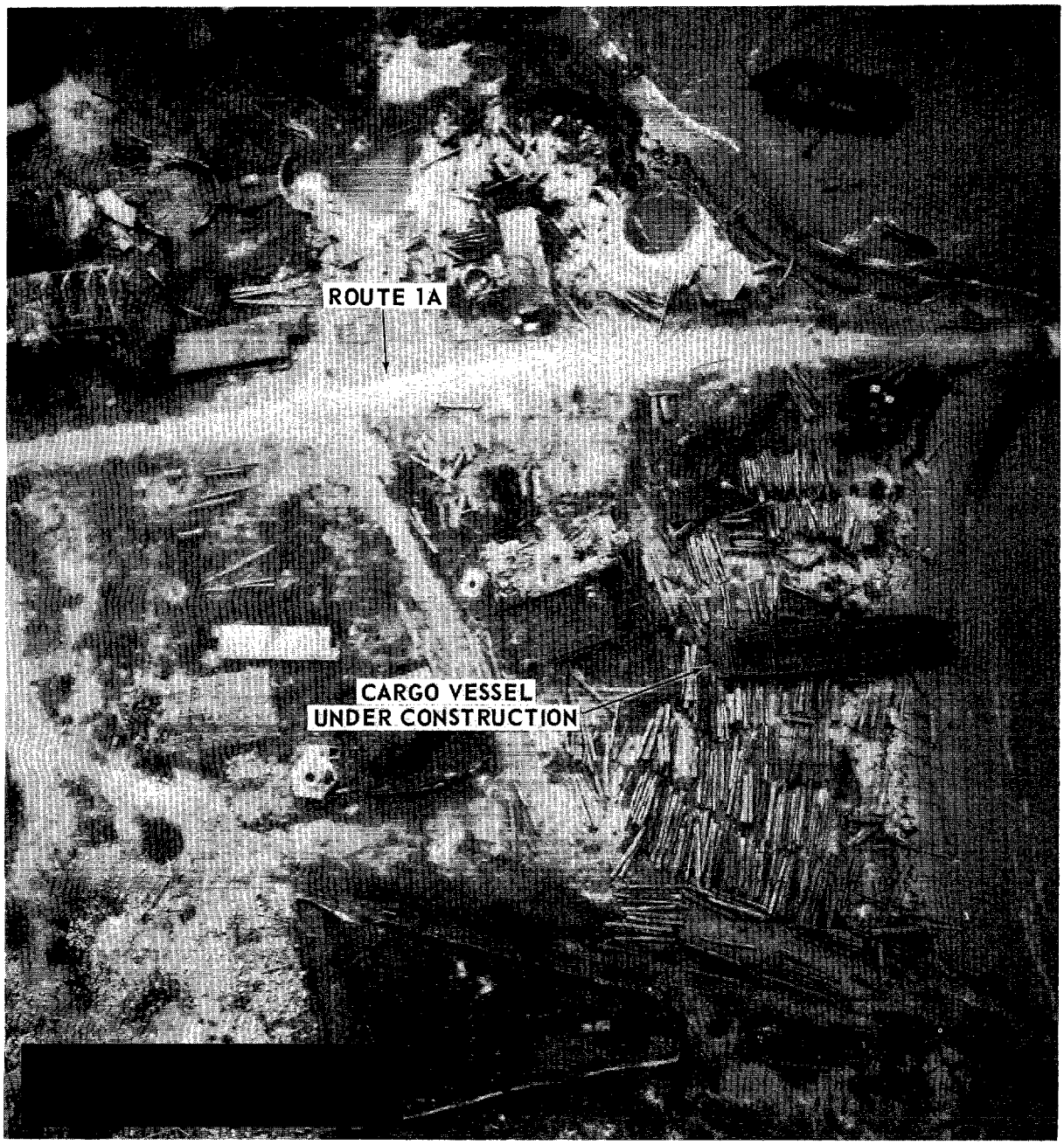
40. Quang Khe Boat Yard, North Vietnam

Quang Khe Boat Yard, a small boat-building yard on the south bank of the Song Giang (river) at UTM XE573576, is the construction site of river vessels of the type depicted in Figure 40. Sporadic construction of
25X1D individual vessels was observed up to [redacted] The vessels are similar to those commonly observed in the rivers and canals of the Red River Delta. There are no identifiable support facilities at the yard.

25X1D [redacted]



[redacted]



[redacted]

25X1D

NPIC L-6613 (1/67)

FIGURE 40. QUANG KHE BOAT YARD, NORTH VIETNAM

[redacted]

25X1C