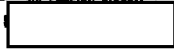


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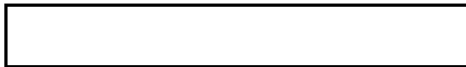
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PHOTOGRAPHIC INTELLIGENCE REPORT

VITAL RECORDS COPY

STATUS OF NORTH VIETNAMESE RAILROADS



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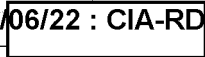
DECLASS REVIEW by NIMA/DOD

REPORT NO. 34
CIA/PIR75109

DATE APRIL 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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DDI IMAGERY ANALYSIS STAFF

PIR 75109

PREFACE

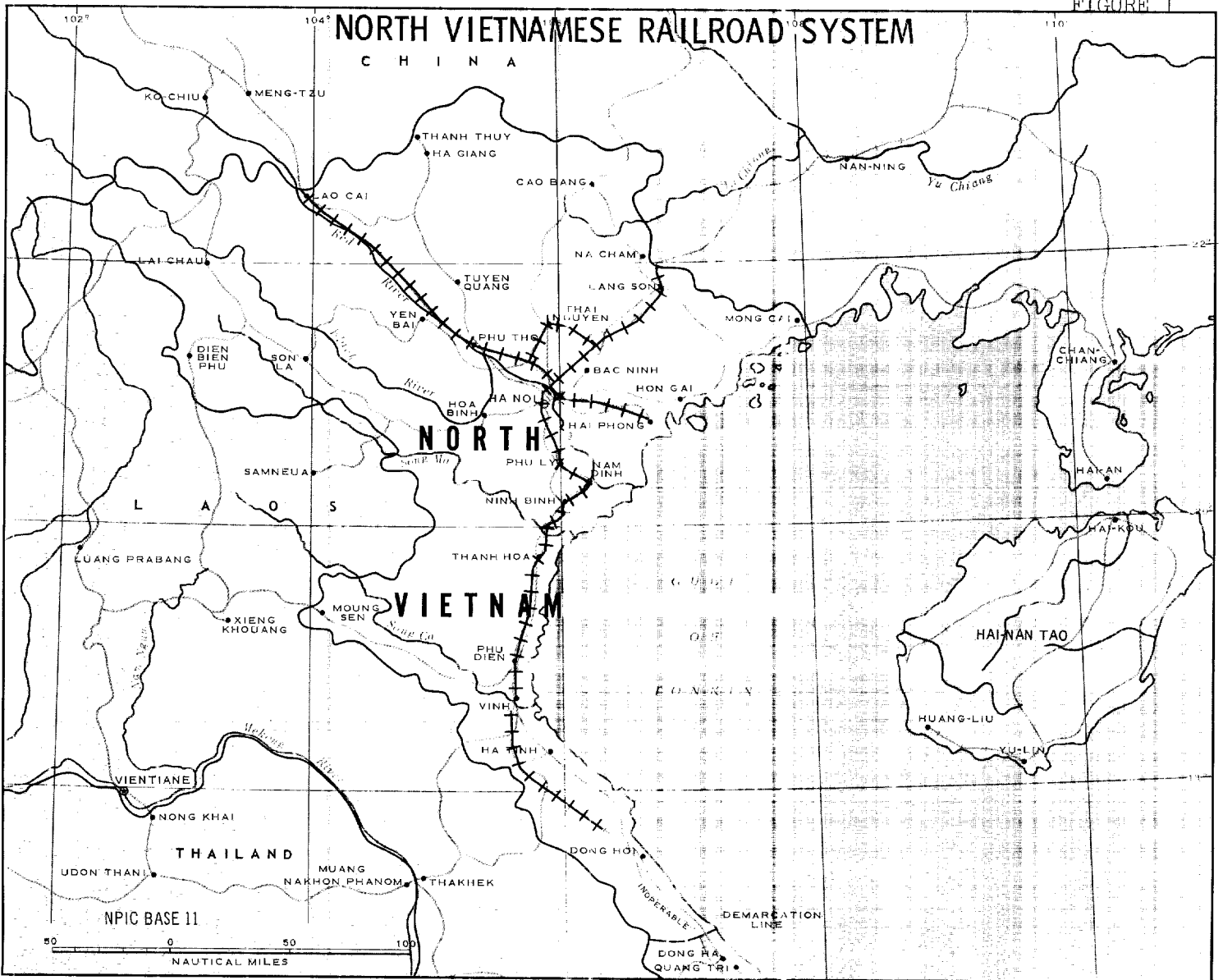
This report summarizes significant items of photo intelligence relating to the North Vietnamese railroad system which has been developed from available photography (received by the CIA Imagery Analysis Staff) during the period indicated on the cover. This report is intended to provide a comprehensive view of the railroad system and does not necessarily reflect the most recent status changes as reported by pilots' reports or field photo intelligence cables.

The railroad system has been divided into 5 major lines: the Hanoi/Lao Cai Line, the Hanoi/Dong Dang Line, the Hanoi/Haiphong Line, the Hanoi/Dong Hoi Line and the Thai Nguyen Line (Figure I). Annotated maps and photos are used to show the status of each line.

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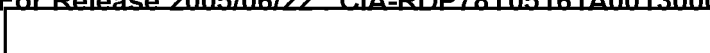
SUMMARY

Those portions of the Hanoi/Lao Cai and Hanoi/Haiphong Rail Lines covered by interpretable photography were open to through traffic. Two bridge interdictions were observed on the Hanoi/Dong Hoi Rail Line. A detailed analysis of the Haiphong Railroad Classification Yard is included in this report.

CONTENTS

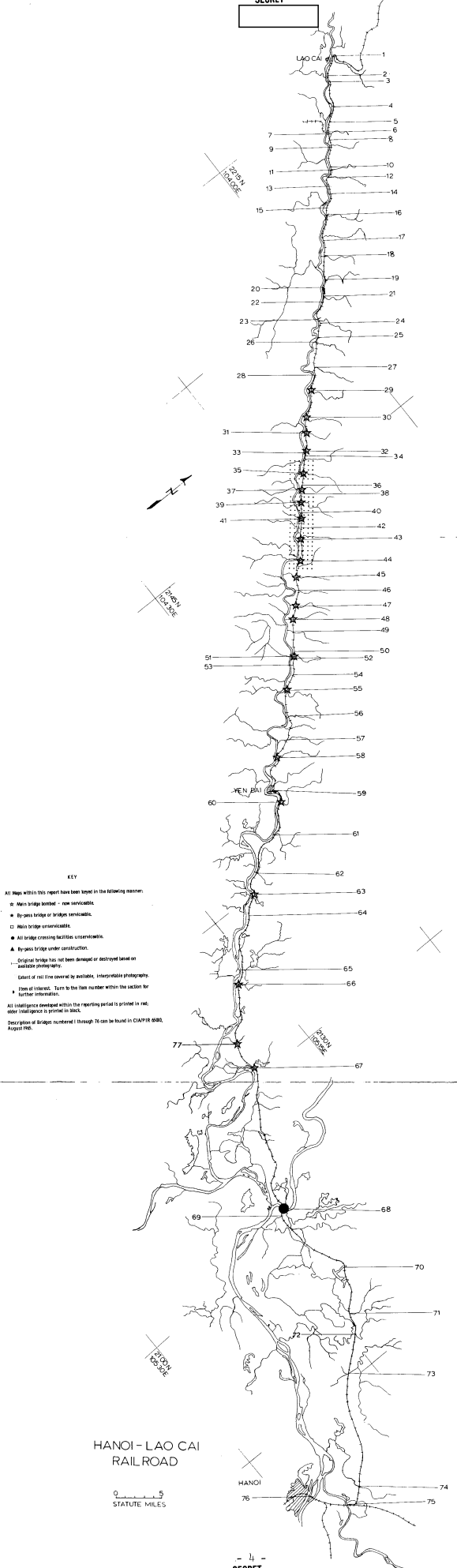
Hanoi/Lao Cai Rail Line	Page 4
Hanoi/Dong Dang Rail Line	6
Hanoi/Dong Hoi Rail Line	8
Hanoi/Haiphong Rail Line	16
Thai Nguyen Rail Line	21

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DDI IMAGERY ANALYSIS STAFF

PIR 75109

STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
 HANOI/LAO CAI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	30 Lang Thip Railroad Bridge over Ngoi Thip [redacted]	[redacted]	S	25X1
25X1	32 Lang Kay Railroad Bridge NW over Ngoi Key [redacted]		S	
25X1	35 Lang Kay Railroad Bridge over Ngoi Chuc [redacted]		S	
25X1	37 Lang Kay Railroad Bridge S over Nam Linh [redacted]		S	
25X1	39 Lang Khay Railroad Bridge over Ngoi Kay [redacted]		S	
25X1	41 Khe Se Railroad Bridge S over stream [redacted]		S	
25X1	43 Trai Hut Railroad Bridge NW over Ngoi Cho [redacted]		S	
25X1	44 Trai Hut Railroad Bridge over Nam Lam [redacted]		S	
25X1	45 Som Dong Dep Railroad Bridge over Nam Muoi [redacted]		S	
25X1	47 Lang Quach Ngoai Railroad Bridge N over Ngoi Vai [redacted]		S	
25X1	48 Lang Quach Ngoai Railroad Bridge over Ngoi Quach [redacted]		S	
25X1	51 Pho Chang Railroad Bridge over Ngoi Trang [redacted]		S	
25X1	55 Pho Hop Railroad Bridge over Ngoi Hop [redacted]	S		
25X1	67 Phu Tho Railroad Bridge E over stream [redacted]	S		

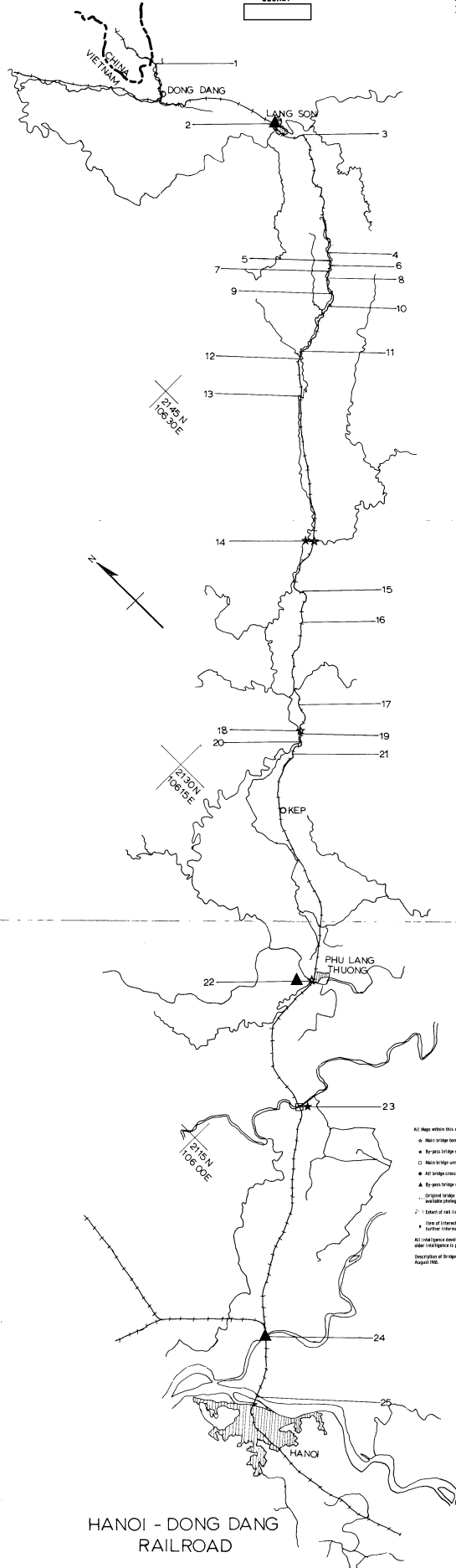
* All data is compiled from photography dated [redacted] or thereafter. 25X1
 Symbols: S - serviceable, U - unserviceable

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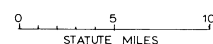
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PIR 75109
FIGURE 3



- KEY
- All maps within this report have been based on the following sources:
 - o Main bridge location - non-ferrous
 - o Bypass bridge or bridge serviceable
 - o Main bridge unserviceable
 - o All bridge crossing in status unserviceable
 - o Bypass bridge under construction
 - o Original bridge that has been damaged or destroyed based on available photography
 - o Extent of rail line covered by available, interpretable photography
 - o Date of intercept, form to the item number within the section for further information
- All intelligence developed within the reporting period is printed in red, other intelligence is printed in black.
- Intersections of bridges numbered through 25 can be found in CIA/PFR 08A, August 1968.

HANOI - DONG DANG RAILROAD



- RAILROAD
- STREAMS
- BRIDGE NO. & LOCATION

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG DANG RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>	
25X1	14 Cao Nung Railroad Bridge over Song Hoa [Redacted]	[Redacted]	S	25X1
25X1	14 Cao Nung Railroad Bridge E over Song Hoa [Redacted]		S	
25X1	22 Bac Giang Railroad and Highway Bridge over Song Thuong [Redacted]		S	
25X1	23 Dap Cau Railroad and Highway Bridge over Song Cau [Redacted]		U	
25X1	23 Dap Cau Railroad Bridge over Song Cau [Redacted]		S	

* All data is compiled from photography dated [Redacted] or thereafter.

25X1

Symbols: S - serviceable, U - unserviceable

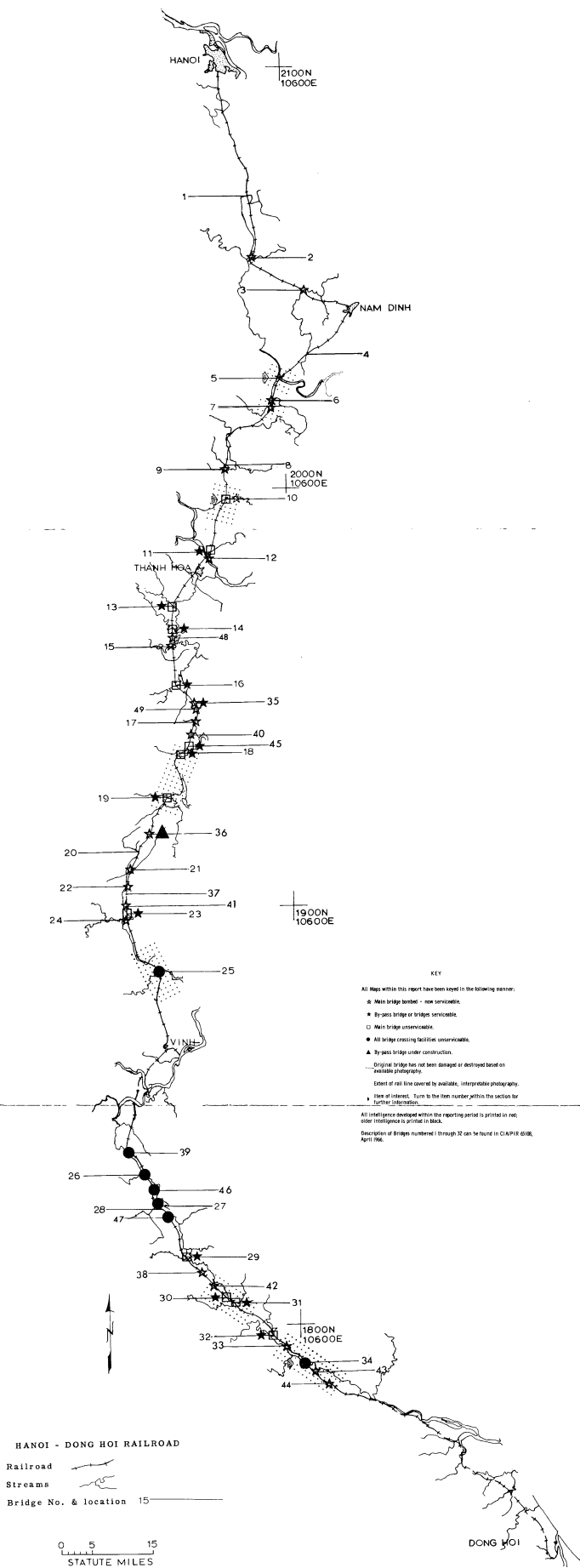
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FIGURE 4



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DDI IMAGERY ANALYSIS STAFF

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STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG HOI RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	3 Cao Duong Railroad and Highway Bridge over canal [Redacted]	[Redacted]	S
25X1	5 Ninh Binh Railroad and Highway Bridge over Song Day [Redacted]		U
25X1	5 Ninh Binh Railroad Bridge over Song Day [Redacted]		S
	5 Ninh Binh Railroad Pontoon Bridge		U
25X1	6 Ha Thon Railroad and Highway Bridge over Song Vac [Redacted]		S
25X1	7 Ly Nhan Railroad and Highway Bridge over stream [Redacted]		S
25X1	9 Yen Xa Railroad and Highway Bridge over stream [Redacted]		S
25X1	10 Dong Phong Thuong Railroad and Highway Bridge over Song Len [Redacted]		U
25X1	10 Dong Phong Thuong Railroad Bridge S over Song Len [Redacted]		U
25X1	10 Dong Phong Thuong E Railroad By-Pass Bridge [Redacted]		S
25X1	11 Phuong Dinh Railroad and Highway Bridge over Lach Truong [Redacted]		U
25X1	11 Phuong Dinh Railroad Bridge over Lach Truong [Redacted]		S
25X1	12 Thanh Hoa Railroad and Highway Bridge over Song Ma [Redacted]		S
25X1	13 Thien Linh Dong Railroad Bridge over Hoang Giang [Redacted]	U	

25X1

[Redacted]

25X1

[Redacted]

25X1

DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	13 Thien Linh Dong Railroad Bridge SW over River [Redacted]	[Redacted]	S 25X1
25X1	14 Thinh Lac Railroad Bridge over stream [Redacted]		U
25X1	14 Thinh Lac Railroad Bridge SSW over stream [Redacted]		S
25X1	15 Truong Quang Tien Railroad Bridge over Song Yen Tr [Redacted]		S
25X1	15 Truong Quang Tien Railroad Bridge E over River [Redacted]		U
25X1	16 Thi Long Railroad Bridge over Suoi Cay Gang [Redacted]		U
25X1	16 Thi Long Railroad Bridge SW over Suoi Cay Gang [Redacted]		S
25X1	17 Phu Quat Railroad Bridge over stream [Redacted]		S
25X1	18 Dia Thuy Railroad Bridge SW over Khe Dua [Redacted]		U
25X1	18 Dia Thuy Railroad Bridge NW over Khe Dua [Redacted]		S
25X1	19 Qui Vinh Railroad Bridge No. 1 over Song Hoang Mai [Redacted]		U
25X1	19 Qui Vinh Railroad Bridge No. 2 over Song Hoang Mai [Redacted]		S
25X1	19 Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [Redacted]		U
25X1	19 Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [Redacted]	S	
25X1	21 Long Ngoc Railroad and Highway Bridge unknown barrier [Redacted]	S	

[Redacted]

25X1

[Redacted]

25X1

DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	22 Dong Khe Railroad Bridge over stream [Redacted]	[Redacted]	S 25X1
25X1	23 Dien Chau Railroad Bridge over Song Bang [Redacted]		U
25X1	23 Dien Chau Railroad Bridge E over Song Bang [Redacted]		S
25X1	24 Da Phuc Railroad Bridge over Intermittent Waterway ([Redacted])		S
25X1	25 Tam Da Railroad and Highway Bridge over Song Cua Lo [Redacted]		U
	25 Tam Da Railroad By-Pass Bridge		U
25X1	26 Trai Hoi Railroad and Highway Bridge over Ngan Sau [Redacted]		U
25X1	27 Xom Hoai Railroad and Highway Bridge over Rao No [Redacted]		U
25X1	30 La Khe Thon Railroad Bridge over Song Tien [Redacted]		U
25X1	30 La Khe Thon Highway Bridge over Song Tien [Redacted]		S
25X1	31 Bai Duc Thon Railroad Bridge over Khe Ba Giang [Redacted]		U
25X1	31 Bai Duc Thon Railroad Bridge S over Khe Ba Giang [Redacted]		S
25X1	32 Xom Khe Railroad Bridge over Khe Net [Redacted]		U
	32 Xom Khe Railroad Bridge By-Pass over Khe Net		S
25X1	33 Kim Lu Xa Railroad Bridge over Khe Danh [Redacted]		S
25X1	35 Thi Long Railroad Bridge SE over stream ([Redacted])	S	

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	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
	35 Thi Long Railroad Bridge S By-Pass	[Redacted]	S
25X1	36 Tho Trang Railroad Bridge over stream [Redacted]		S 25X1
25X1	39 Quang Te Railroad Bridge over Khe Hac Giang [Redacted]		U
25X1	40 Qui My Railroad Bridge over stream [Redacted]		S
	41 Tu My Railroad Bridge		S
	42 Trai Tran Xom Railroad Bridge		S
25X1	43 Dong Ca Thon Railroad and Highway Bridge over Cai Khe [Redacted]		S
25X1	44 Kieu Moc Phuong Railroad Bridge W [Redacted]		S
25X1	45 Phu Cu Railroad Bridge N over stream [Redacted]		U
25X1	45 Phu Cu Railroad By-Pass Bridge		S
25X1	48 Sai Thon Railroad Bridge N over stream [Redacted]	S	
25X1	49 Nap Bang Railroad Bridge over stream [Redacted]	S	

25X1

* All data is compiled from photography dated [Redacted] or thereafter.

Symbols: S - serviceable, U - unserviceable

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PIR 75109

ITEM OF INTEREST NO. 1: Hanoi/Dong Hoi Rail Line

NAME : Ninh Binh Railroad Bridge

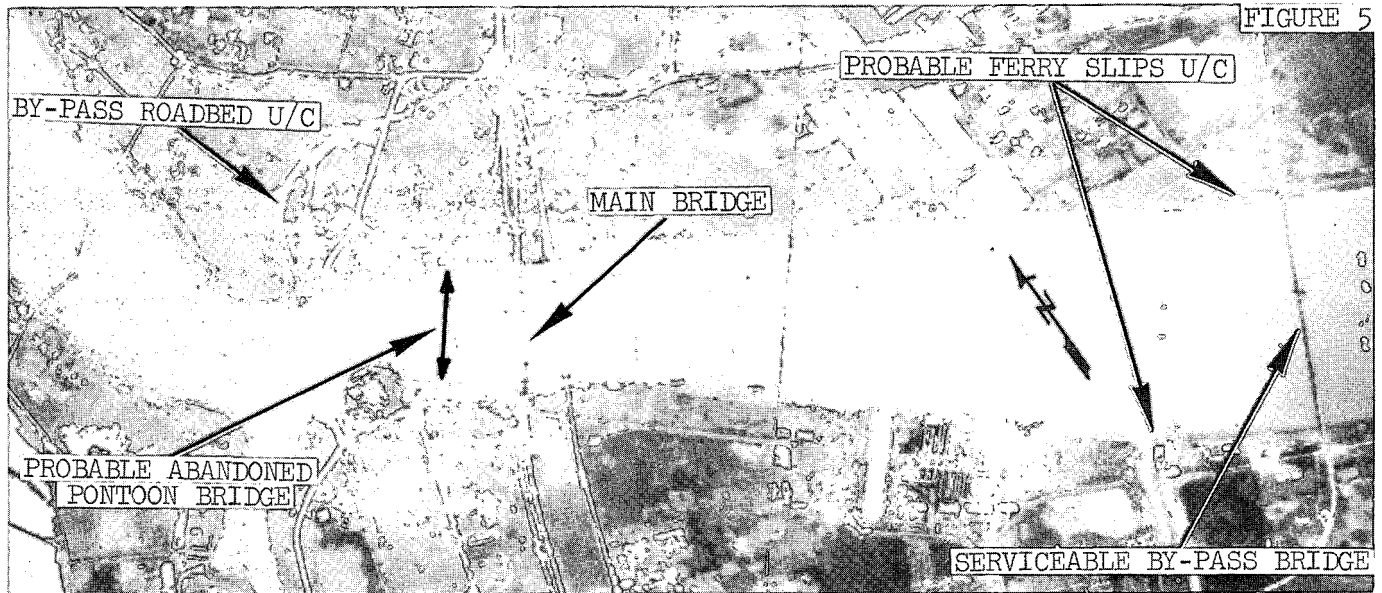
BE 25X1 : 25X1

COORDINATES : 20 15N - 105 59E, XH030405

PHOTO REFERENCE : 25X1

MAP REFERENCE : JOG (A) 1501, NF 48-15

The 25-span, deck-beam Ninh Binh railroad by-pass bridge has been repaired and is now serviceable. A new railroad by-pass is under construction west of the main bridge , which remains unserviceable. The previously reported railroad pontoon bridge at this crossing (Report Nos. 29 and 30) has probably been abandoned. Two new probable railroad ferry slips, one on each side of the river, are under construction immediately to the west of the repaired by-pass bridge.



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DDI IMAGERY ANALYSIS STAFF

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ITEM OF INTEREST NO. 2: Hanoi/Dong Hoi Rail Line

NAME : Dong Phong Thuong Railroad Bridge E

BE : [Redacted]

COORDINATES : 19 58N - 105 50E, WH886091

PHOTO REFERENCE : [Redacted]

MAP REFERENCE : JOG (A) 1501, NE 48-3

25X1

The 13-span deck-beam Dong Phong Thuong Railroad Bridge E has been repaired and is now serviceable. All other rail bridges remain unserviceable at this river crossing.



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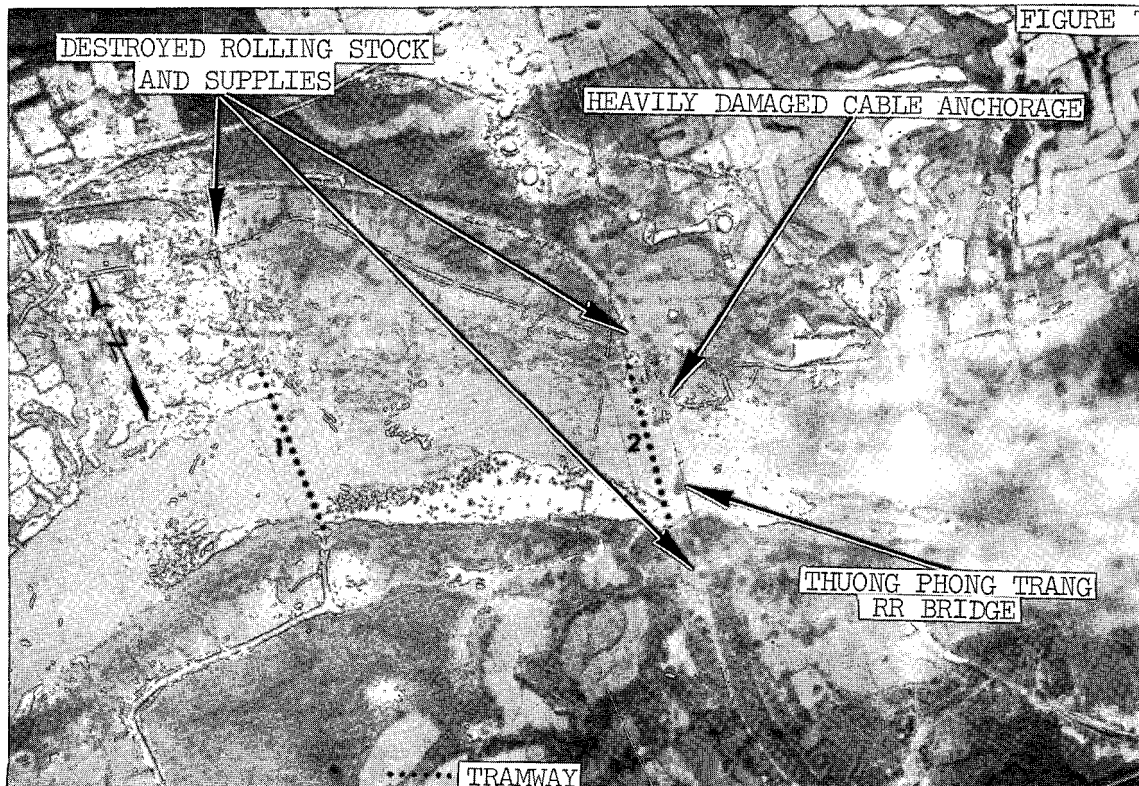
DDI IMAGERY ANALYSIS STAFF

PIR 75109

ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line
NAME : Destroyed Supplies and Rolling Stock
BE : NA
COORDINATES : 17 54N - 106 00E, XE063803
PHOTO REFERENCE : [REDACTED] 25X1
MAP REFERENCE : JOG (A) 1501, NE 48-11

The Thuong Phong Trang Railroad Bridge [REDACTED] area has been bombed. Considerable amounts of rolling stock and supplies have been previously noted at this unserviceable river crossing (see Report Nos. 32 and 33). One of the 2 tramways has been damaged (annotated as tramway 1), 3 of the 14 pieces of rolling stock have been damaged/destroyed, a cable anchorage has been heavily damaged and much of the supplies have been damaged/destroyed.

25X1



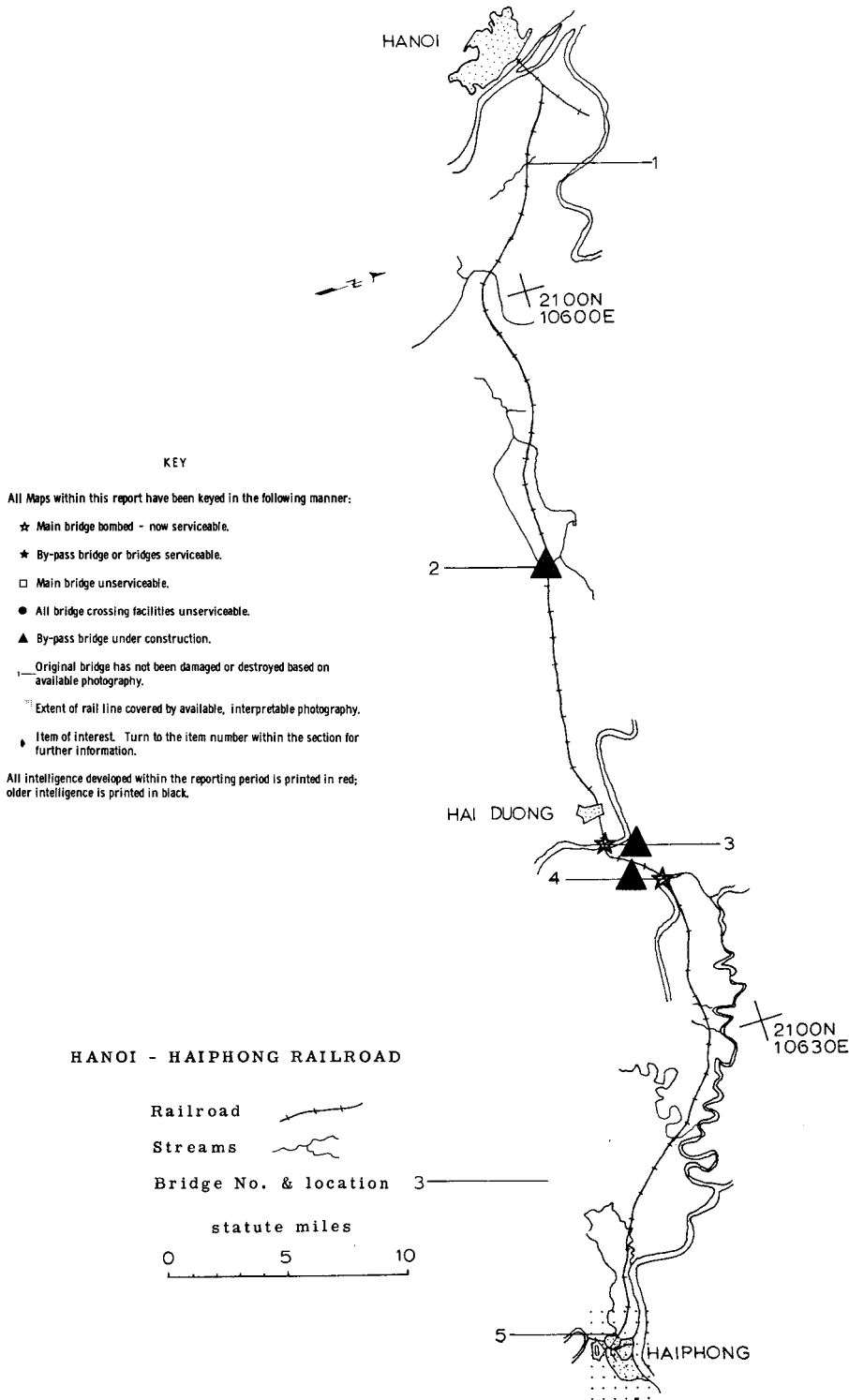
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PIR 75109
FIGURE 8

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- 16 -
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DDI IMAGERY ANALYSIS STAFF

PIR 75109

ITEM OF INTEREST NO. 1: Hanoi/Haiphong Rail Line

NAME : Haiphong Railroad Station and Classification Yard

25X1

BE :

COORDINATES : 20 51N - 106 42E, XJ760068

PHOTO REFERENCE :

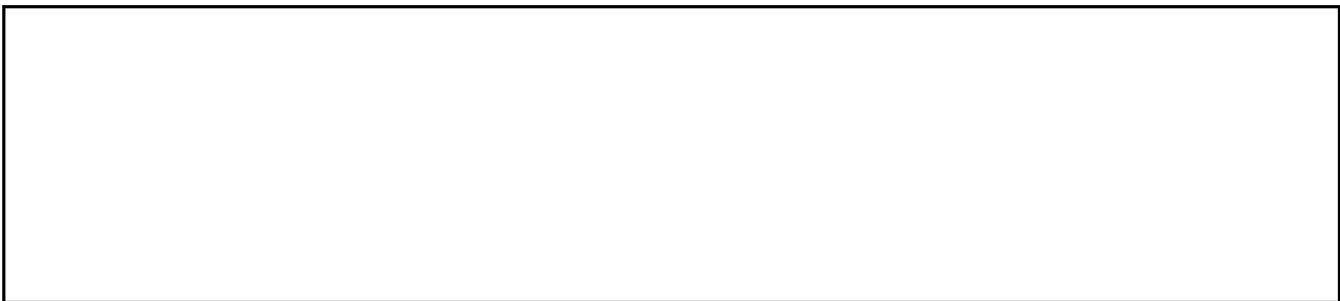
25X1

MAP REFERENCE : JOG (A) 1501, NF 48-16

The Haiphong railroad yard complex consists of 6 functional areas: a 7-track, 900' long classification yard, a 3-track, 400' long classification/holding yard, a 2-track, 2000' long passenger yard, a transloading yard, and 2 repair areas (Figure 9).

The classification yard is approximately 70% full. A probable train being made up extends from this area into the classification/holding yard which is otherwise empty. The passenger terminal, platform, and tracks appear to be inactive. The repair shops appear to be quite active - they are apparently engaged in camouflaging rolling stock.

Approximately 157 pieces of railroad equipment are located within the area, including 3 locomotives with tenders, 14 box cars, 29 flat cars, 8 well-type flat cars, 65 gondola cars, 30 tank cars, and 8 unidentified cars (Figure 12). A large amount of freight is observed in the open cars, including probable 55 gallon POL drums, construction materials, construction machinery, transportation equipment, and coal. In addition, considerable quantities of coal are observed in several parts of the yard.



25X1

X1

Eight well-type flat cars were also noted in the yard. This type of rolling stock, never noted before on aerial photography in North Vietnam, will accommodate high or bulky loads. These well-type cars are shown in Insets 3 and 4 of Figure 12. Figure 11 is an artist's concept of one of these cars.

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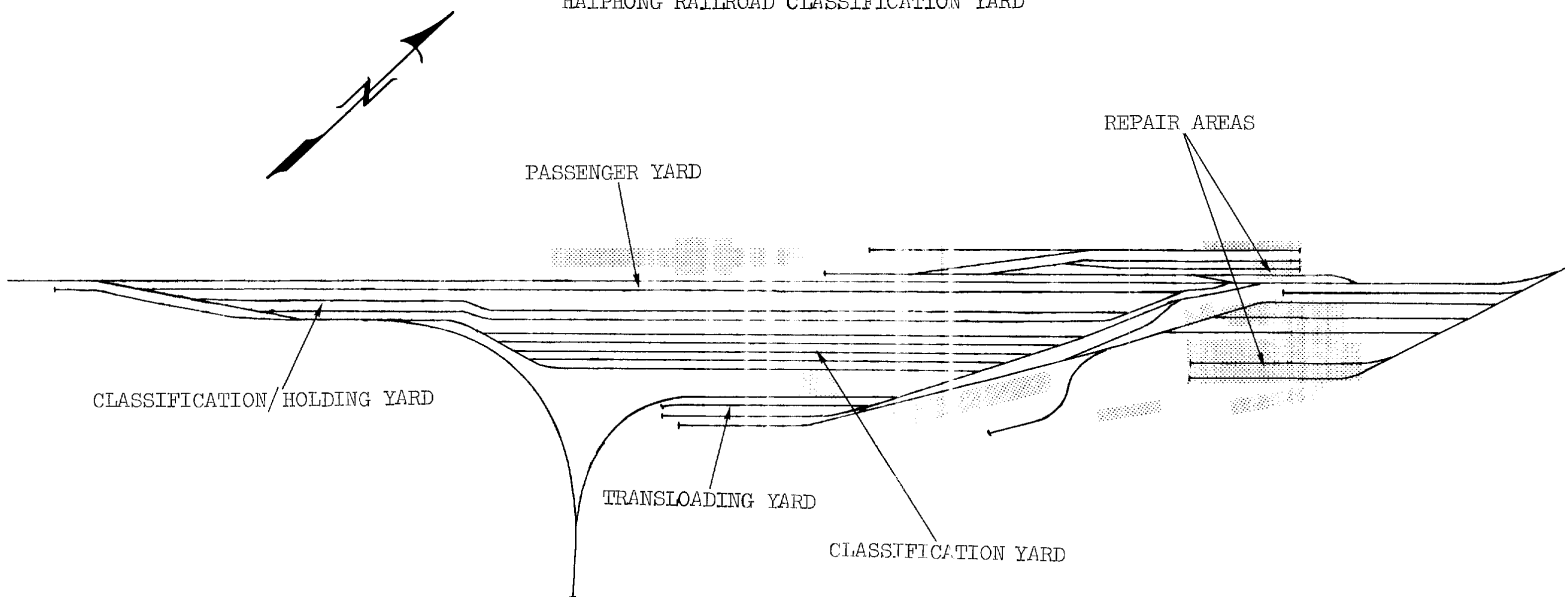


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CIA IMAGERY ANALYSIS DIVISION

HAIPHONG RAILROAD CLASSIFICATION YARD



RAILROAD ASSOCIATED BUILDINGS

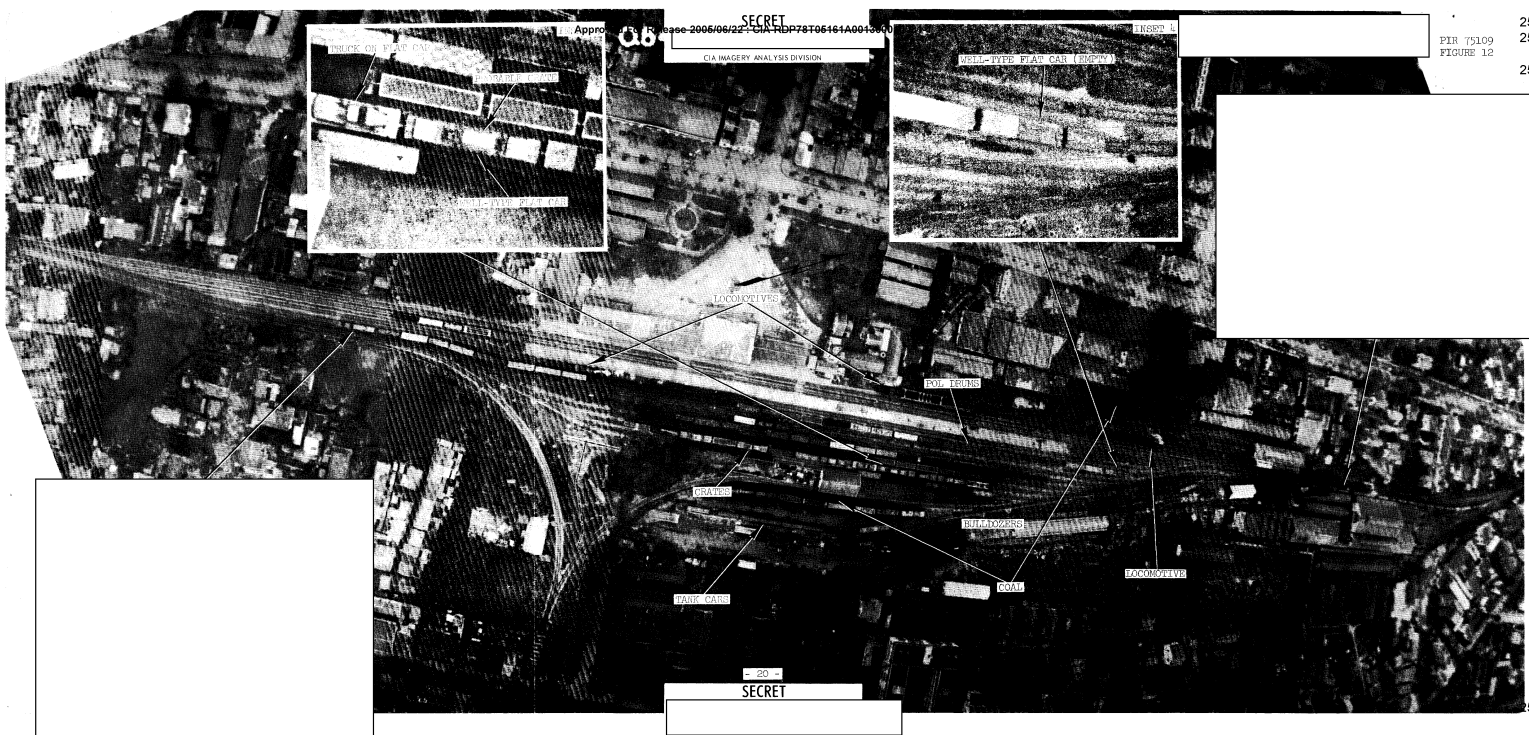
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PIR 15109
FIGURE 12

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FIGURE 13

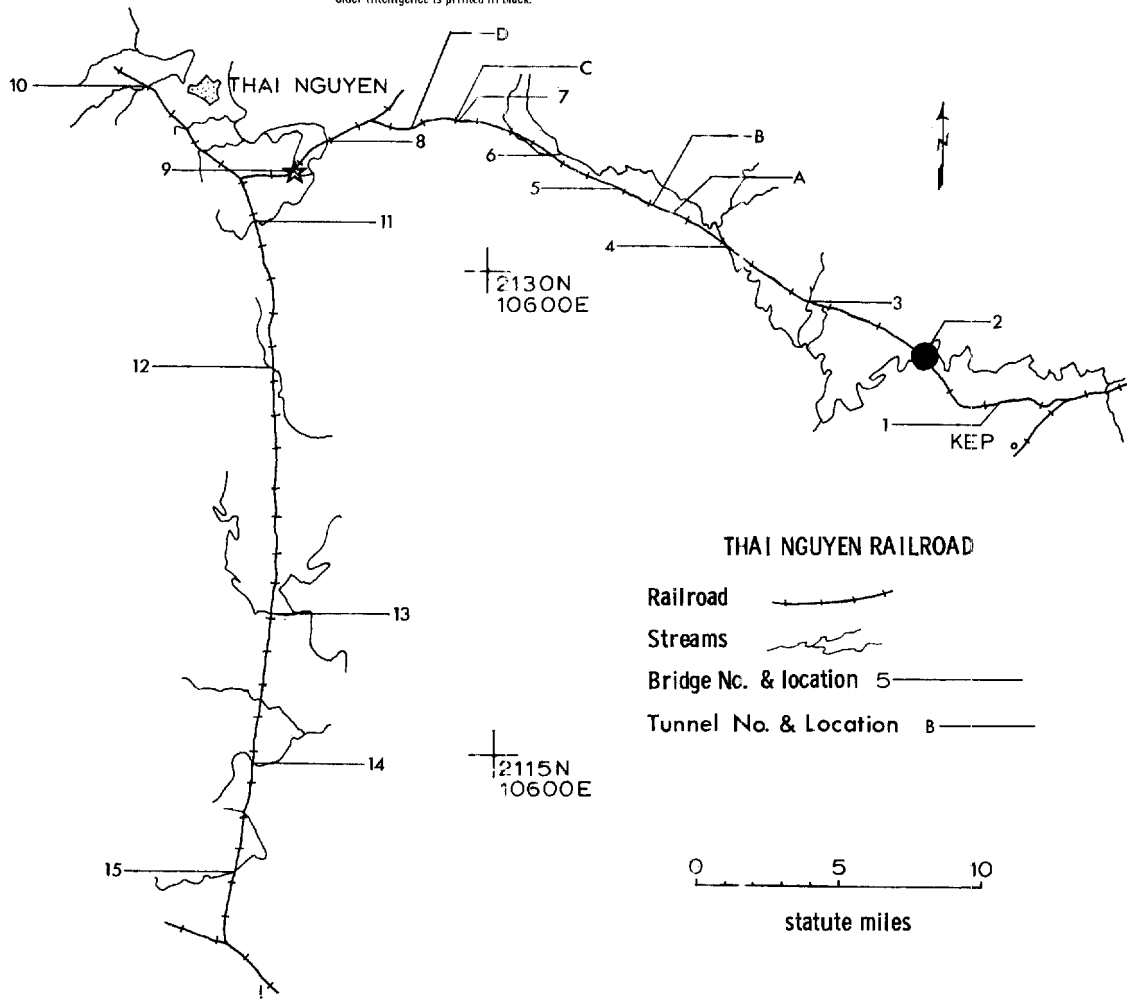
25X1

KEY

All Maps within this report have been keyed in the following manner:

- ★ Main bridge bombed - now serviceable.
- ★ By-pass bridge or bridges serviceable.
- Main bridge unserviceable.
- All bridge crossing facilities unserviceable.
- ▲ By-pass bridge under construction.
- † Original bridge has not been damaged or destroyed based on available photography.
- Extent of rail line covered by available, interpretable photography.
- Item of Interest. Turn to the item number within the section for further information.

All intelligence developed within the reporting period is printed in red; older intelligence is printed in black.



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DDI IMAGERY ANALYSIS STAFF

PIR 75109

STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
TRAI NGUYEN RAIL LINE

	<u>Bridge Number and Name</u>	<u>Date last observed</u>	<u>Status</u>
25X1	2 Dong Muc Railroad Bridge over Song Thuong		U
25X1	9 Lang Lau Railroad Bridge over Song Cau		S

25X1

* All data is compiled from photography dated or thereafter.

25X1

Symbols: S - serviceable, U - unserviceable

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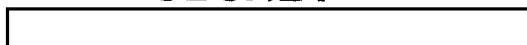


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