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IMAGERY

ANALYSIS



STAFF

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

STATUS OF NORTH VIETNAMESE RAILROADS



25X1

Declass Review by NIMA / DoD

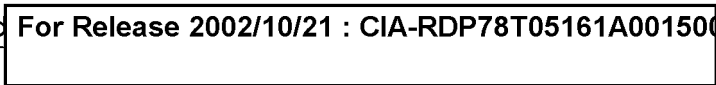
REPORT NO. 39

CIA/PIR 77155

DATE JUNE 1967

GROUP 1
Excluded from automatic
downgrading and declassification

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DDI IMAGERY ANALYSIS STAFF

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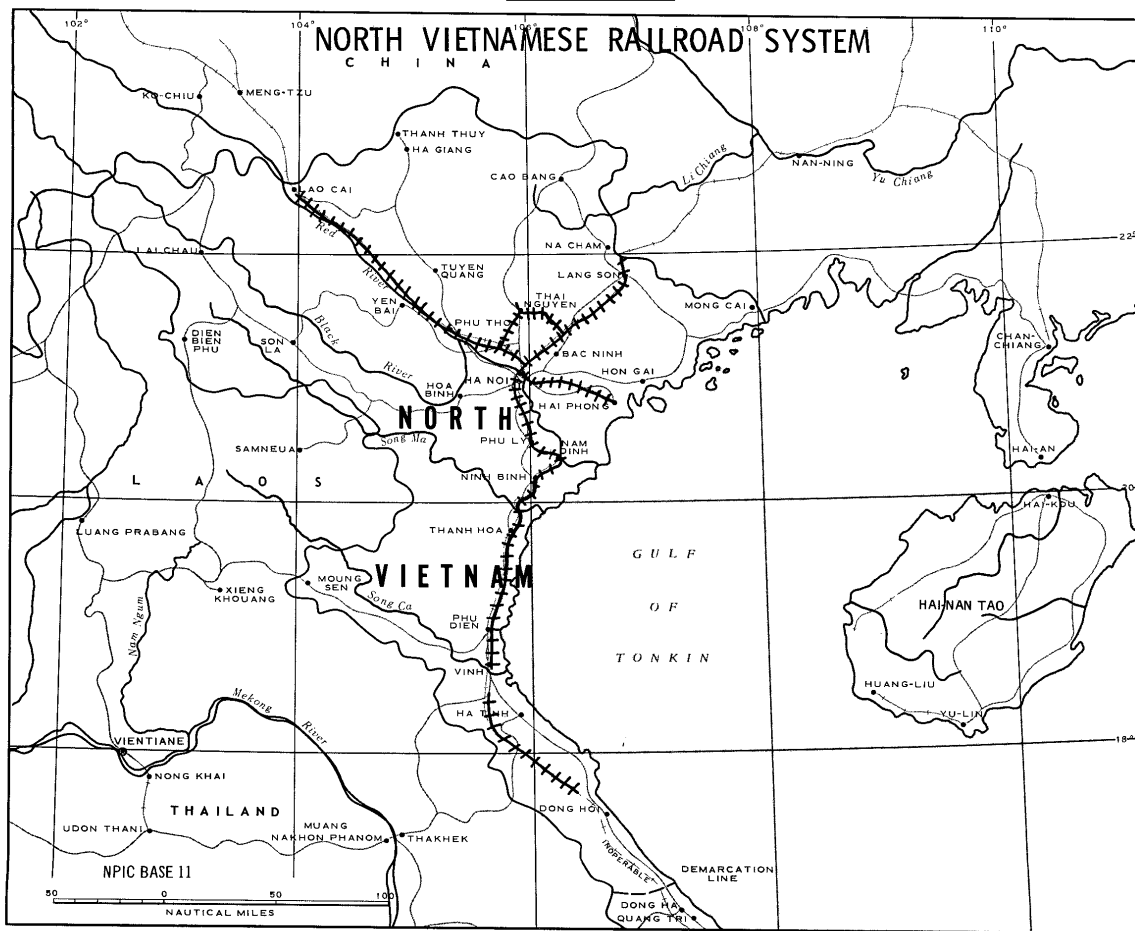
THAI NGUYEN RAIL LINE.....26

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DDI IMAGERY ANALYSIS STAFF

STATUS OF NORTH VIETNAMESE RAILROADS

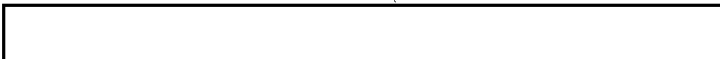


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SUMMARY

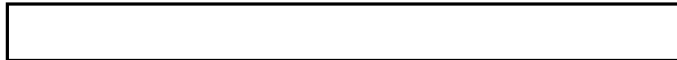
Those portions of the Hanoi/Lao Cai, Hanoi/Dong Dang, Hanoi/Dong Hoi, and the Thai Nguyen Rail Lines covered by interpretable photography appear open to through traffic. New rail construction activity is noted near Thai Nguyen. Two new railroad yards have been constructed in the vicinity of Yen Vien near the junction of the Hanoi/Lao Cai and Hanoi/Dong Dang Rail Lines.

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DDI IMAGERY ANALYSIS STAFF

INTRODUCTION

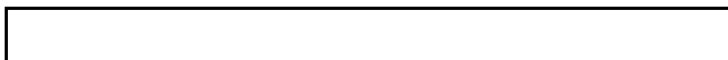
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This report is published periodically to highlight significant items of photographically-derived intelligence relating to the North Vietnamese railroad system. The report is based on aerial photography available   The report is intended to provide a comprehensive view of the railroad systems and does not necessarily reflect the most recent status changes as reflected by pilots' reports or field photo intelligence cables.

For ease in reporting the railroad system has been divided into five 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 1). The status of each line is shown on annotated maps and photos.

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DDI IMAGERY ANALYSIS STAFF

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

25X1

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

* All data is compiled from photography

Symbols: S - serviceable, U - unserviceable

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DDI IMAGERY ANALYSIS STAFF

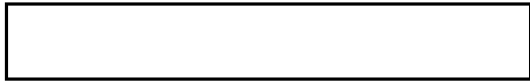
ITEM OF INTEREST NO. 1: Hanoi/Lao Cai Rail Line

NAME : New Rail Yard

BE : NA

COORDINATES : 21 08N - 105 48E, WJ 915365

PHOTO REFERENCE



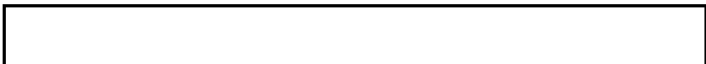
25X1

MAP REFERENCE : JOG (A) 1501, NF 48-11

A new rail yard was observed on the Hanoi/Lao Cai Rail Line, 3.5 nm southeast of the junction of the Hanoi/Lao Cai and Hanoi/Dong Dang Rail Lines. The yard is approximately 550 yards long and seven tracks wide and is presently empty. Poor quality of the photography precluded determining the gauge of the track.



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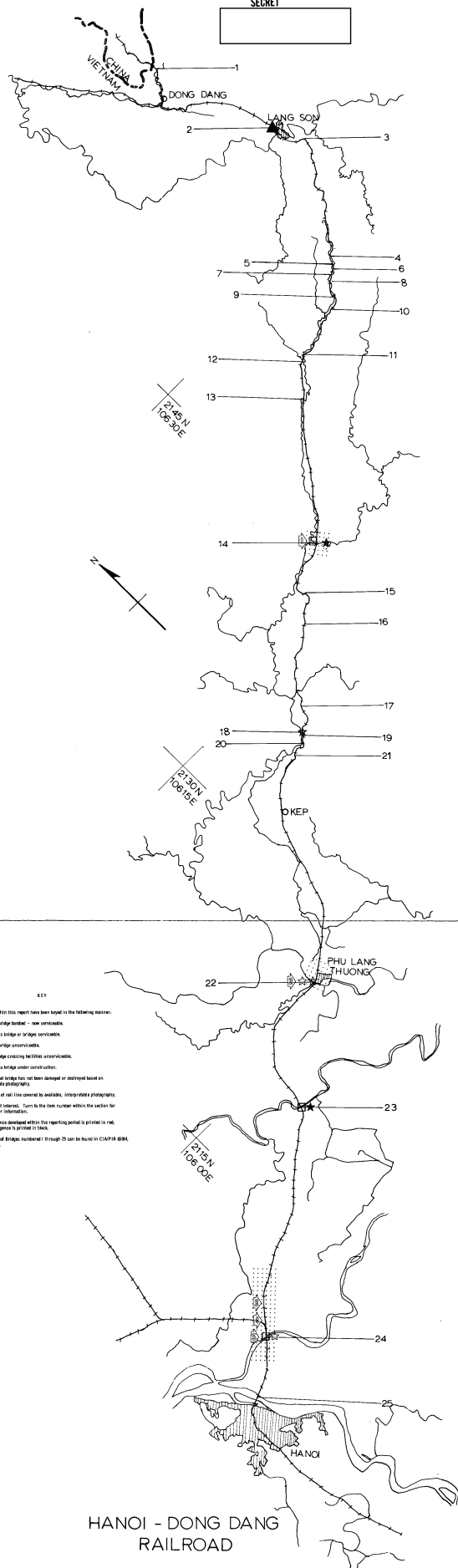


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FIGURE 4



KEY

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

- Main bridge number - open circles.
- Branch bridge or bridge service.
- Main bridge unusable.
- All bridge crossing facilities unusable.
- ▲ Branch bridge under construction.
- Bridge 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 lengths covered within the reporting period is printed in red, when intelligence is printed in black.

Descriptions of bridges numbered 1 through 25 can be found in CIA-RDP 80B4, August 1968.

HANOI - DONG DANG RAILROAD

0 5 10
STATUTE MILES

RAILROAD ————

STREAMS ————

BRIDGE NO. & LOCATION 14

25X1

25X1



DDI IMAGERY ANALYSIS STAFF

STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG DANG RAIL LINE
25X1

25X1

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25X1

25X1

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25X1

25X1

Bridge Number and Name

Status

14 Cao Nung Railroad Bridge over
Song Hoa

U

14 Cao Nung Railroad Bridge E over
Song Hoa

S

22 Bac Giang Railroad and Highway Bridge
over Song Thuong

S

23 Dap Cau Railroad and Highway Bridge
over Song Cau

U

23 Sap Cau Railroad Bridge over
Song Cau

S

24 Hanoi Railroad and Highway Bridge
over Canal des Rapides

U

24 Hanoi Railroad and Highway Bridge
over Canal des Rapides

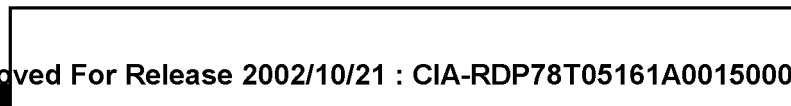
S



25X1

* All data is compiled from photography
Symbols: S - serviceable, U - unserviceable

25X1



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[Redacted]

25X1

DDI IMAGERY ANALYSIS STAFF

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

NAME : Cao Nung RR Bridge

BE

[Redacted]

25X1

COORDINATES : 21 33N - 106 29E, XJ 553844

PHOTO REFERENCE

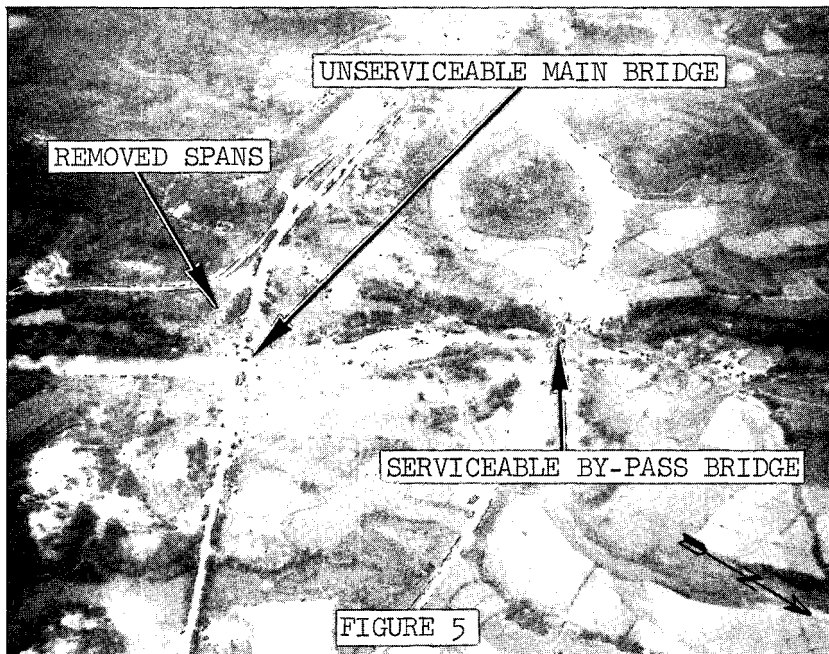
[Redacted]

25X1

MAP REFERENCE : JOG (A) 1501, NF 48-12

Three spans have been removed, leaving the piers and abutments intact. The spans are under repair just south of the bridge. The by-pass bridge [Redacted] remains serviceable.

25X1



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[Redacted]

25X1

25X1



DDI IMAGERY ANALYSIS STAFF

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

NAME : Bac Giang RR and Highway Bridge

25X1

BE



COORDINATES : 21 16N - 106 11E, XJ 234527


25X1

PHOTO REFERENCE




MAP REFERENCE : JOG (A) 1501, NF 48-11

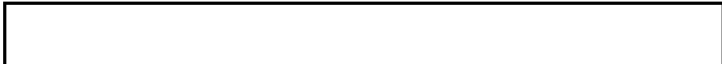
25X1

 the northeast approach to the bridge was interdicted with damage to two spans, one pier, and the corresponding abutment. The by-pass bridge was not observed.

25X1

 the two spans had been replaced and the pier and abutment repaired. The by-pass bridge (not shown) was observed to have the center two spans missing.

25X1





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25X1

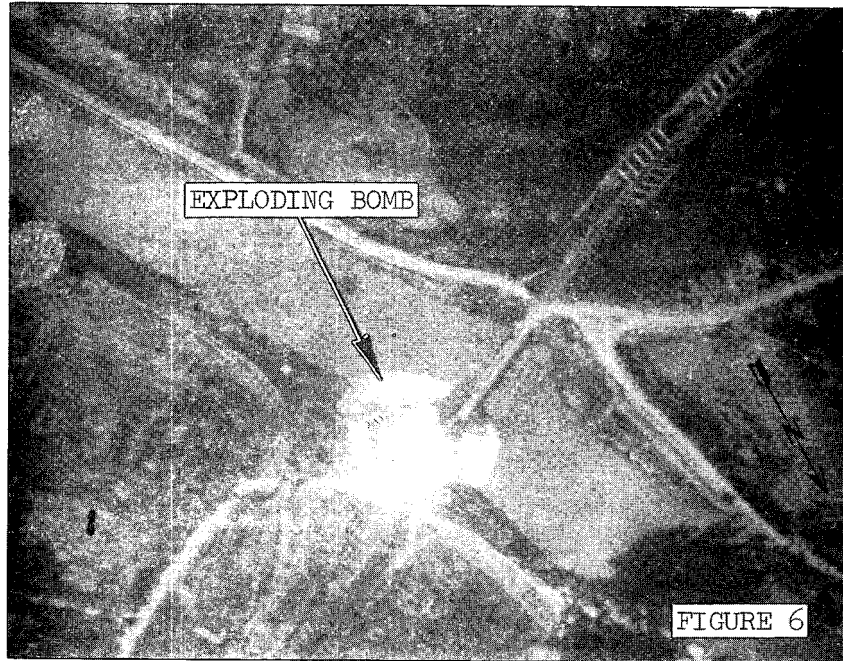


FIGURE 6



25X1

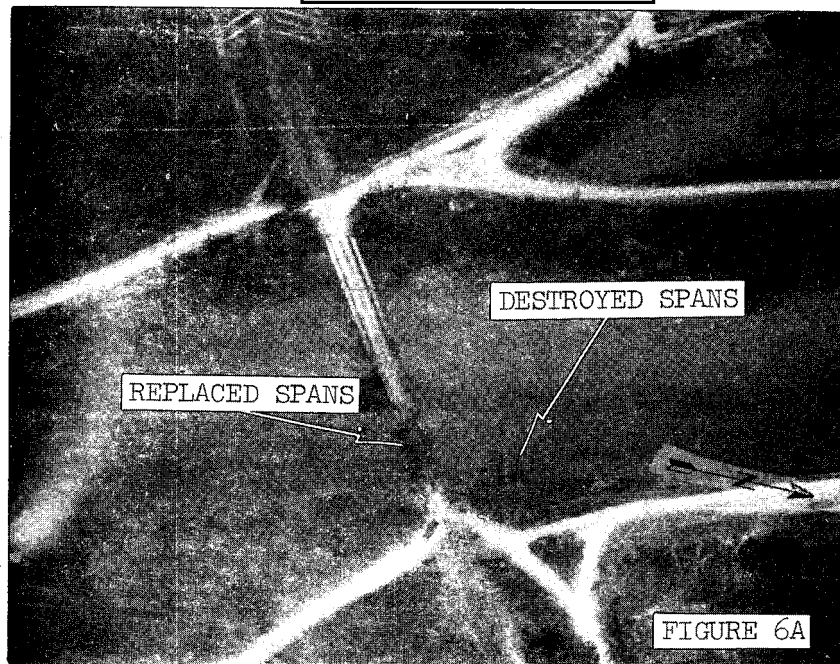
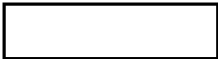


FIGURE 6A



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ITEM OF INTEREST NO. 3: Hanoi/Dong Dang Rail Line

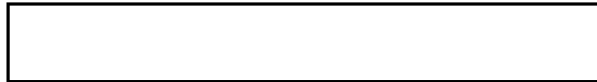
NAME : Completed Rail Yard North of Yen Vien

BE : NA

COORDINATES : 21 06N - 105 56E, WJ 973335

25X1

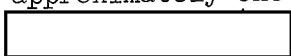
PHOTO REFERENCE



MAP REFERENCE : JOG (A) 1501, NF 48-11

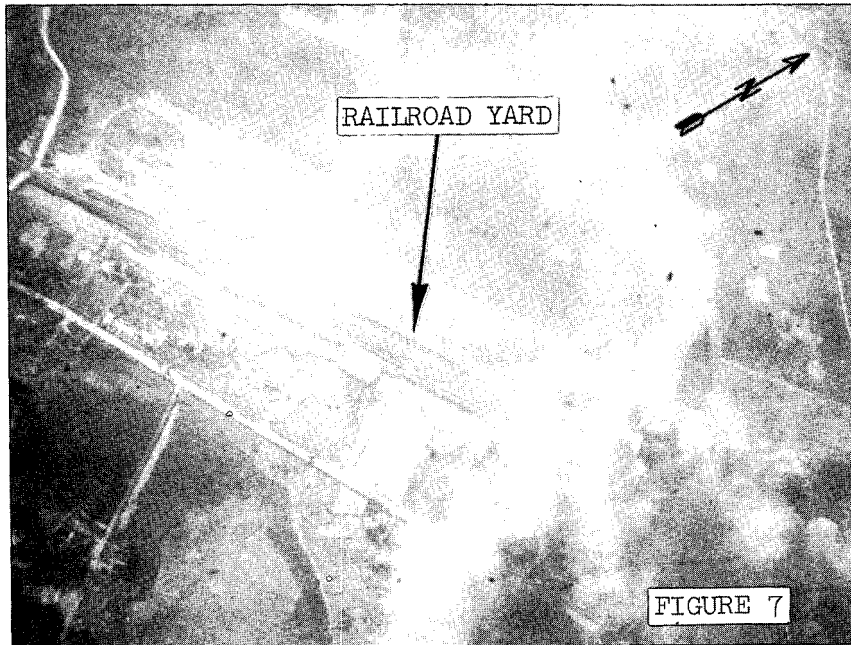
25X1

A newly completed rail yard was observed on the Hanoi/Dong Dang Line approximately one nm northeast of the Yen Vien Railroad Classification Yard



This yard was reported under construction in Report No. 22.

The yard is comprised of approximately seven tracks and is probably serviceable from both sides; however, smoke and debris from exploding bombs obscure a view of the northeast part of the yard. The gauge of the track cannot be determined due to the quality of the photography.



25X1




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25X1

DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 4: Hanoi/Dong Dang Rail Line
 NAME : Completed Turning Wye at Yen Vien
 BE : NA
 COORDINATES : 21 05N - 105 55E, WJ 959321
 PHOTO REFERENCE 
 MAP REFERENCE : JOG (A) 1501, NF 48-11

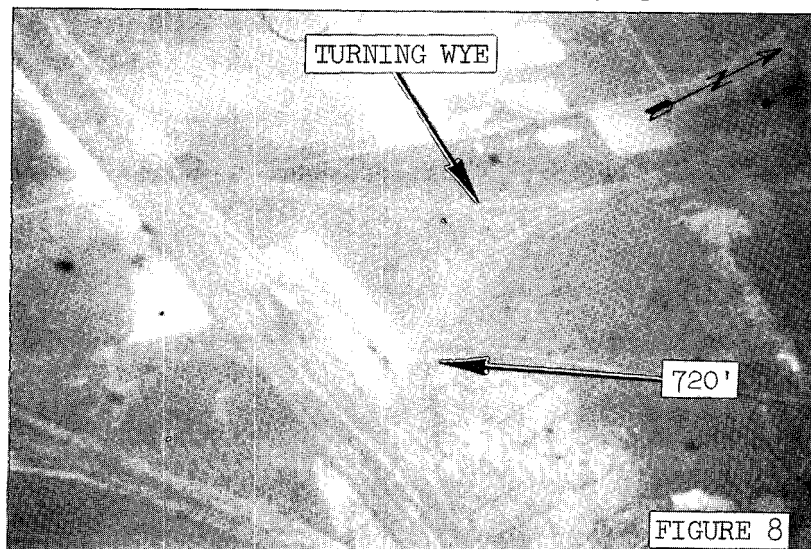
25X1

A newly completed turning wye has been observed 0.4 nm northeast of the Yen Vien Railroad Classification Yard  The turning wye was first noted under construction in Report No. 23.

25X1

The radius of curvature of the wye as previously determined is approximately 720 feet. This is the approximate radius of curvature of standard gauge turning wye located in China. However, the gauge of the track cannot be determined due to the quality of the photography.

The completion of this probable standard gauge turning wye and the new rail yard (Figure 7) near Yen Vien, along with the discovery of the new rail yard (Figure 3) on the Lao Cai Rail Line, establishes the probability that standard gauge track has been, or very soon will be, laid from Ping Hsiang to the Hanoi vicinity by at least one of two alternate routes. One is the direct route along the Hanoi/Dong Dang Rail Line. The other is from Ping Hsiang to Kep, then west to Thai Nguyen, south to Nguyen Khe, and finally southeast to Hanoi. This would provide a direct link between Hanoi and the Chinese standard gauge rail system and eliminate the need of transloading material between standard and meter gauge cars at the border.



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25X1



DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 5: Hanoi/Dong Dang Rail Line

NAME : Hanoi RR and Highway Bridge over Canal des Rapides

25X1

BE 

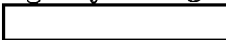
COORDINATES : 21 04N - 105 55E

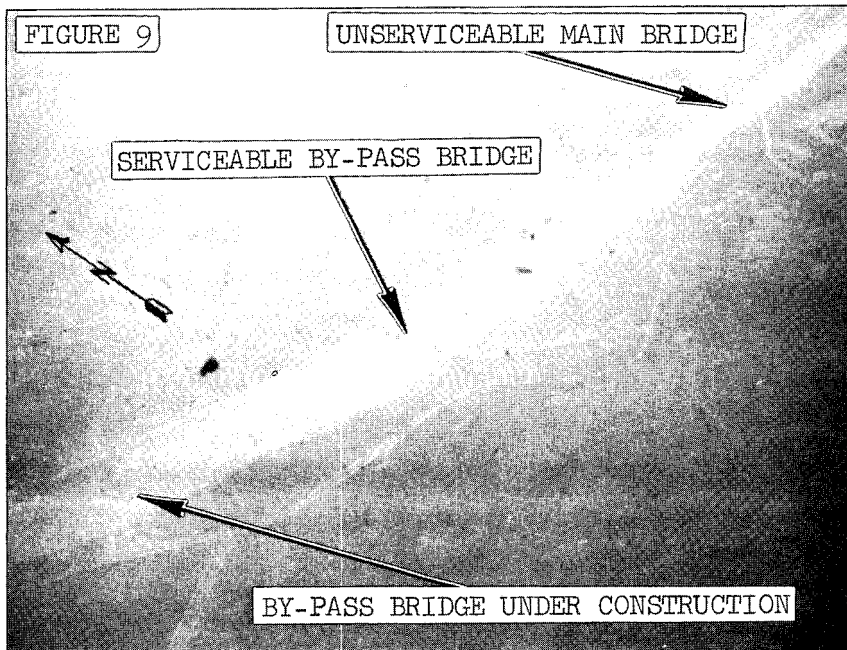
25X1

PHOTO REFERENCE 

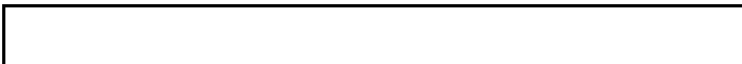
MAP REFERENCE : JOG (A) 1501, NF 48-11

25X1

Two spans of the six-span, through truss Hanoi RR and Highway Bridge have been dropped. The moveable deck of the by-pass bridge  is partially extended, and the bridge is probably serviceable. An additional by-pass bridge is under construction approximately 4,000 feet east of the main bridge.



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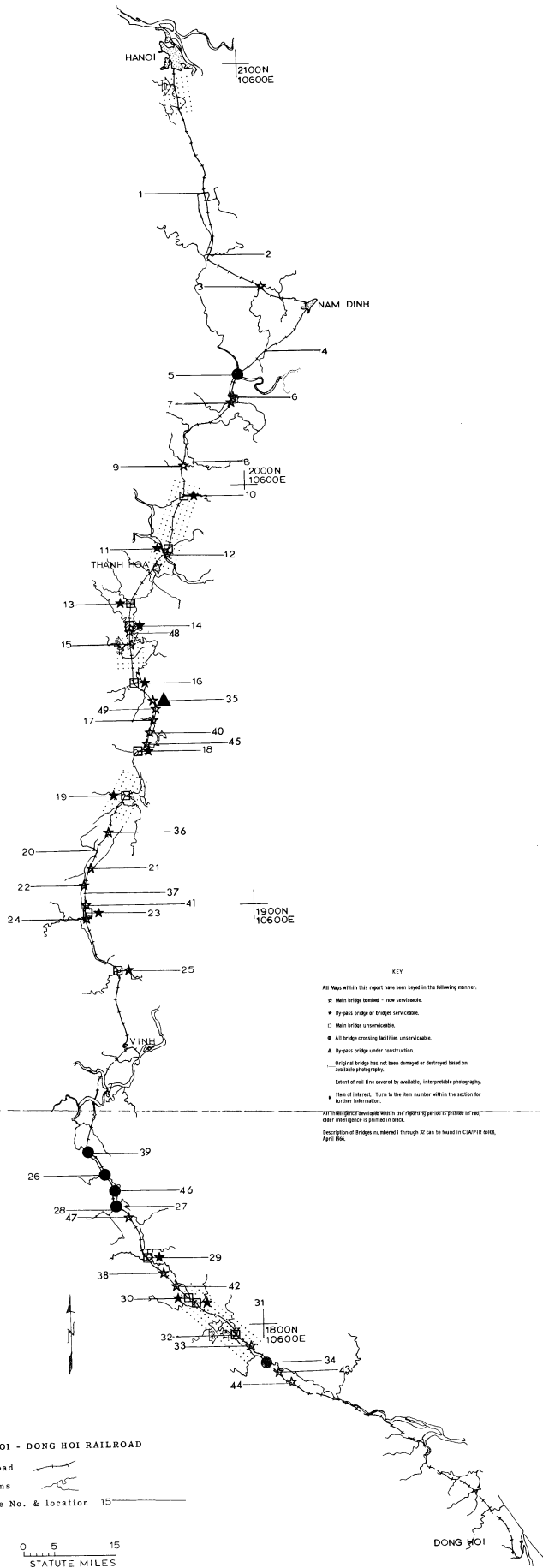


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FIGURE 10



-16-

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25X1

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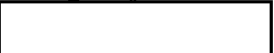
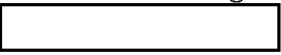

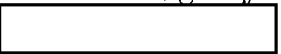
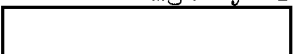
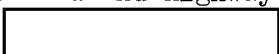
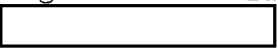
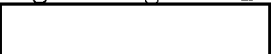
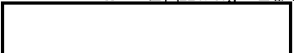

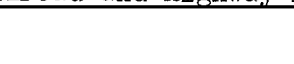
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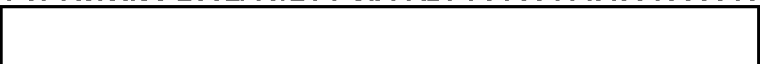
25X1

DDI IMAGERY ANALYSIS STAFF

STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
HANOI/DONG HOI RAIL LINE 25X1

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

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DDI IMAGERY ANALYSIS STAFF

25X1

Bridge Number and Name

Status

25X1

13 Thien Linh Dong Railroad Bridge
over Hoang Giang

U

25X1

13 Thien Linh Dong Railroad Bridge
SW over River

U

25X1

13 Thien Linh Dong Railroad Bridge
W over Hoang Giang

S

25X1

14 Thinh Lac Railroad Bridge over
stream

U

25X1

14 Thinh Lac Railroad Bridge SSW over
stream

S

25X1

15 Truong Quang Tien Railroad Bridge
over Song Yen Tr

U

25X1

15 Truong Quang Tien Railroad Bridge
E over river

S

25X1

16 Thi Long Railroad Bridge over
Suoi Cay Gang

U

25X1

16 Thi Long Railroad Bridge SW over
Suoi Cay Gang

S

25X1

17 Phu Quat Railroad Bridge over
stream

S

25X1

18 Dia Thuy Railroad Bridge SW over
Khe Dua

U

25X1

18 Dia Thuy Railroad Bridge NW over
Khe Dua

S

25X1

19 Qui Vinh Railroad Bridge No. 1 over
Song Hoang Mai

U

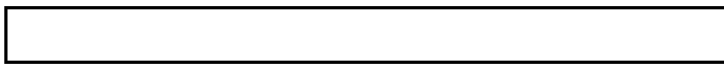
25X1

19 Qui Vinh Railroad Bridge No. 2 over
Song Hoang Mai

U

25X1

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DDI IMAGERY ANALYSIS STAFF

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	<u>Bridge Number and Name</u>		<u>Status</u>	
19	Qui Vinh Railroad Bridge No. 3 over Song Hoang Mai [Redacted]	[Redacted]	U	25X1
19	Qui Vinh Railroad Bridge No. 4 over Song Hoang Mai [Redacted]	[Redacted]	S	25X1
21	Long Ngoc Railroad and Highway Bridge over unknown barrier [Redacted]	[Redacted]	S	25X1
22	Dong Khe Railroad Bridge over stream [Redacted]	[Redacted]	S	25X1
23	Dien Chau Railroad Bridge over Song Bang [Redacted]	[Redacted]	U	25X1
23	Dien Chau Railroad Bridge E over Song Bang [Redacted]	[Redacted]	S	25X1
24	Da Phuc Railroad Bridge over Intermittent Waterway [Redacted]	[Redacted]	S	25X1
25	Tam De Railroad and Highway Bridge over Song Cua Lo [Redacted]	[Redacted]	U	25X1
25	Tam Da Railroad By-Pass Bridge	[Redacted]	S	
26	Trai Hoi Railroad and Highway Bridge over Ngan Sau [Redacted]	[Redacted]	U	25X1
27	Xom Hoai Railroad and Highway Bridge over Rao No [Redacted]	[Redacted]	U	25X1
29	Dong Bai Railroad Bridge over Song Tien [Redacted]	[Redacted]	U	25X1
29	Dong Bai Railroad By-Pass Bridge N over Song Tien [Redacted]	[Redacted]	S	25X1
30	La Khe Thon Railroad Bridge over Song Tien [Redacted]	[Redacted]	U	25X1

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DDI IMAGERY ANALYSIS STAFF

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Bridge Number and Name

Status

25X1

30 La Khe Thon Highway Bridge over
Song Tien

S

25X1

31 Bai Duc Thon Railroad Bridge over
Khe Ba Giang

U

25X1

31 Bai Duc Thon Railroad Bridge S
over Khe Ba Giang

S

25X1

32 Xom Khe Railroad Bridge over
Khe Net

U

32 Xom Khe Railroad Bridge By-Pass
over Khe Net

U

25X1

33 Kim Lu Xa Railroad Bridge over
Khe Danh

S

25X1

35 Thi Long Railroad Bridge SE over
stream

S

35 Thi Long Railroad Bridge S By-Pass

S

25X1

36 Tho Trang Railroad Bridge over
stream

S

25X1

38 Phuc Trach Railroad Bridge over
Khe Ac

S

25X1

39 Quang Te Railroad Bridge over
Khe Hac Giang

U

25X1

40 Qui My Railroad Bridge over
stream

S

41 Tu My Railroad Bridge

S

42 Trai Tran Xom Railroad

S

25X1

43 Dong Ca Thon Railroad and Highway
Bridge over Cai Khe

S

25X1

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~~SECRET~~

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[Redacted]

25X1

DDI IMAGERY ANALYSIS STAFF

25X1

	<u>Bridge Number and Name</u>	<u>Status</u>	
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	
47	Yen Hoi Ha Railroad Bridge over Highway [Redacted]	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 [Redacted]
Symbols: S - serviceable, U - unserviceable

25X1

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25X1

[Redacted]

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DDI IMAGERY ANALYSIS STAFF

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

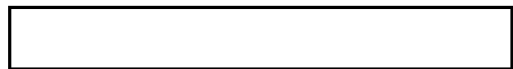
NAME : Van Dien Probable POL Transshipment Point

BE : NA

COORDINATES : 20 57N - 105 51E, WJ 881158

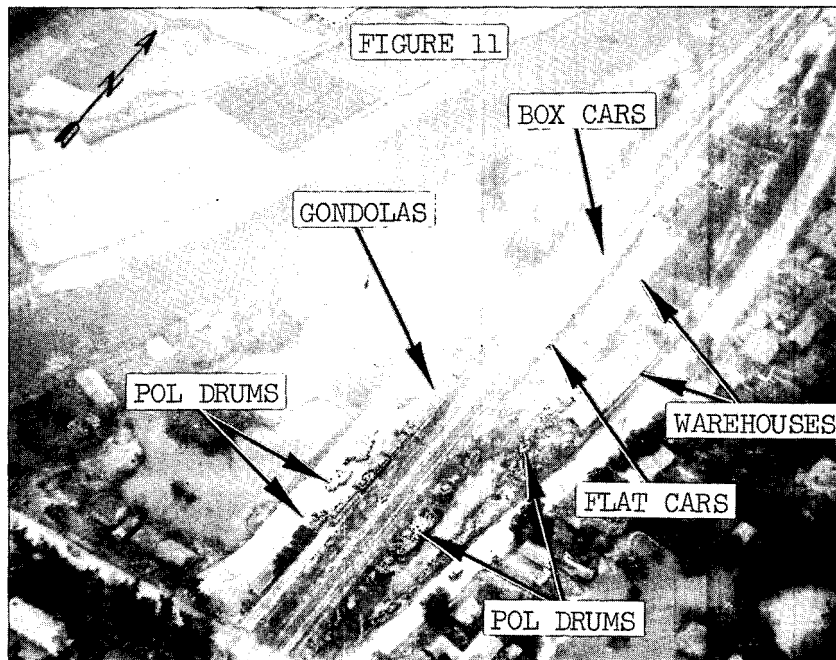
25X1

PHOTO REFERENCE



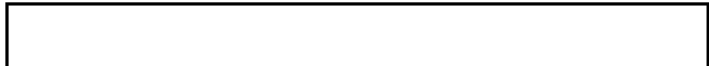
MAP REFERENCE : JOG (A) 1501, NF 48-15

A probable POL transshipment point was observed three nm southeast of Ha Dong on the Hanoi/Dong Hoi Rail Line. The transshipment point consists of a three track rail yard and two large warehouses. Seven gondolas carrying POL drums, four box cars, and two flat cars with possible civil defense shelters were observed in the yard. Several groups of POL drums were noted on either side of the yard.

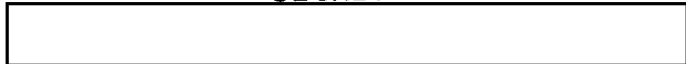


25X1

~~SECRET~~



SECRET



25X1

DDI IMAGERY ANALYSIS STAFF

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

NAME : Trong Quang Tien RR Bridge

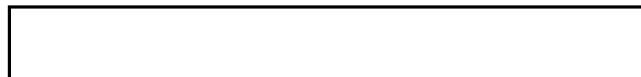
BE



25X1

COORDINATES : 19 37N - 105 42E, WE 740696

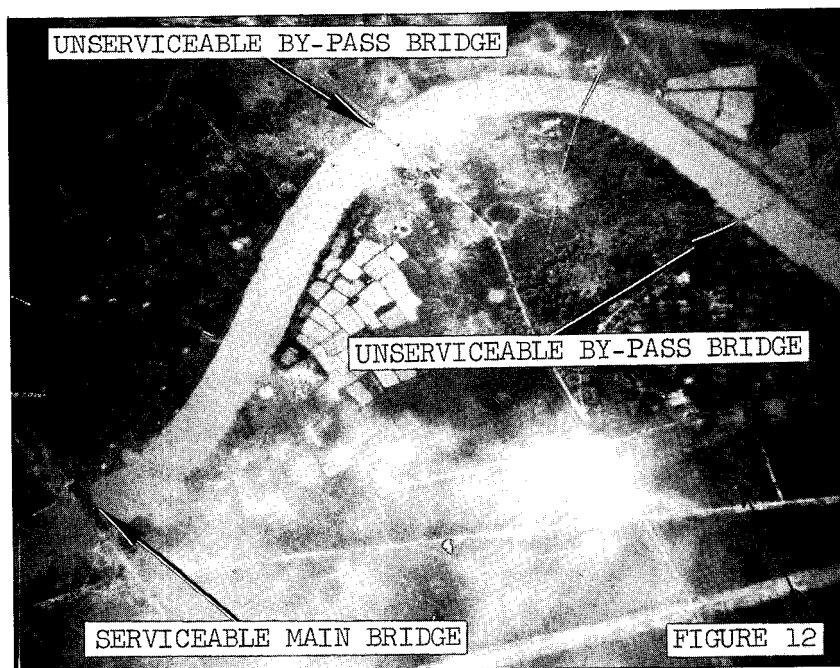
PHOTO REFERENCE



25X1

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

The main bridge has been repaired and is now a serviceable three span deck, beam bridge. The previously serviceable by-pass No. 1 is unserviceable as is by-pass No. 2.



SECRET



25X1

25X1



DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 3: Hanoi/Dong Hoi Rail Line

NAME : Xom Khe RR By-Pass No. 2

BE : NA

COORDINATES : 17 58N - 105 56E, WJ 987978

25X1

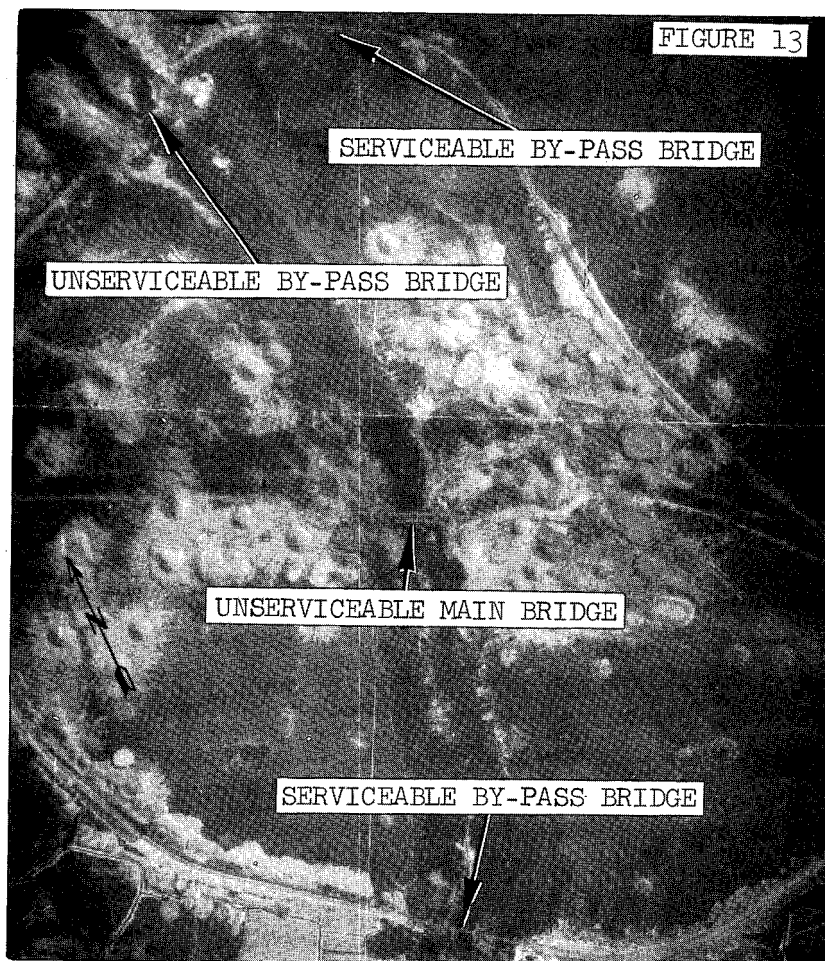
PHOTO REFERENCE



MAP REFERENCE : JOG (A) 1501, NE 48-11

25X1

A new by-pass bridge has been completed and is serviceable. It is located approximately 1,050 feet south of the main bridge. Although the bridge is serviceable, track has not yet been laid on the southwest approach. The previously reported by-pass bridge remains unserviceable.



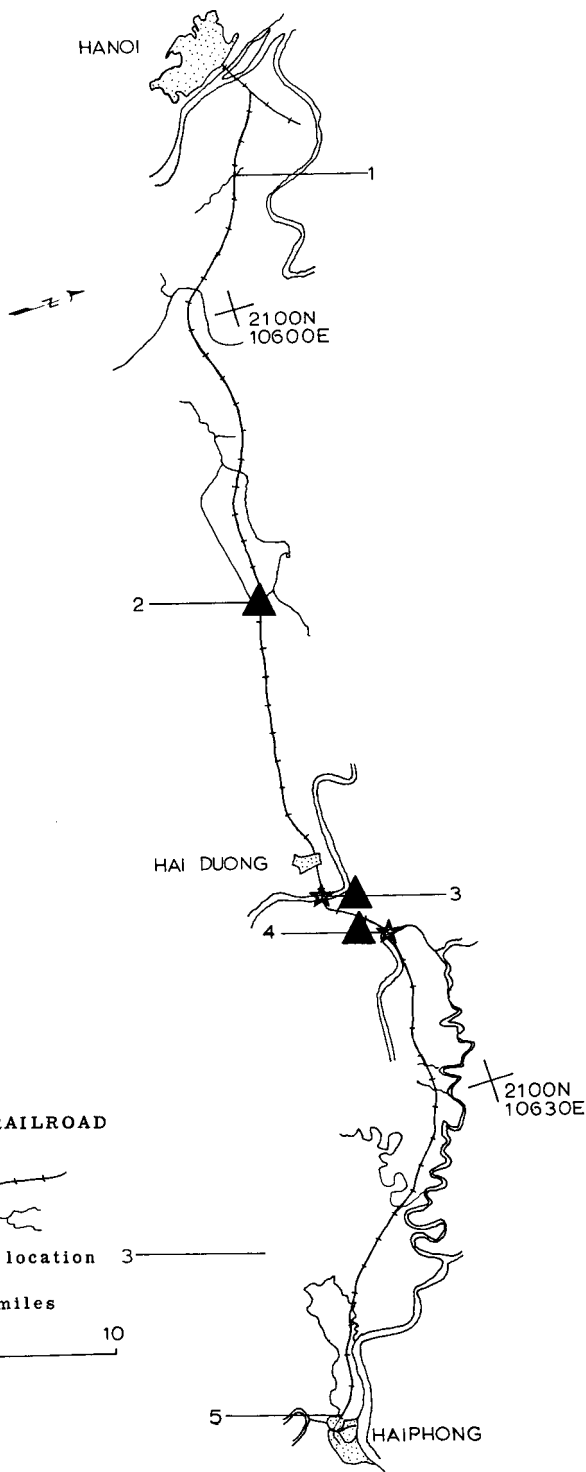
25X1



SECRET

25X1

PIR 77155
FIGURE 14



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.

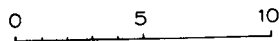
HANOI - HAIPHONG RAILROAD

Railroad

Streams

Bridge No. & location 3 —————

statute miles



SECRET

25X1

SECRET

25X1

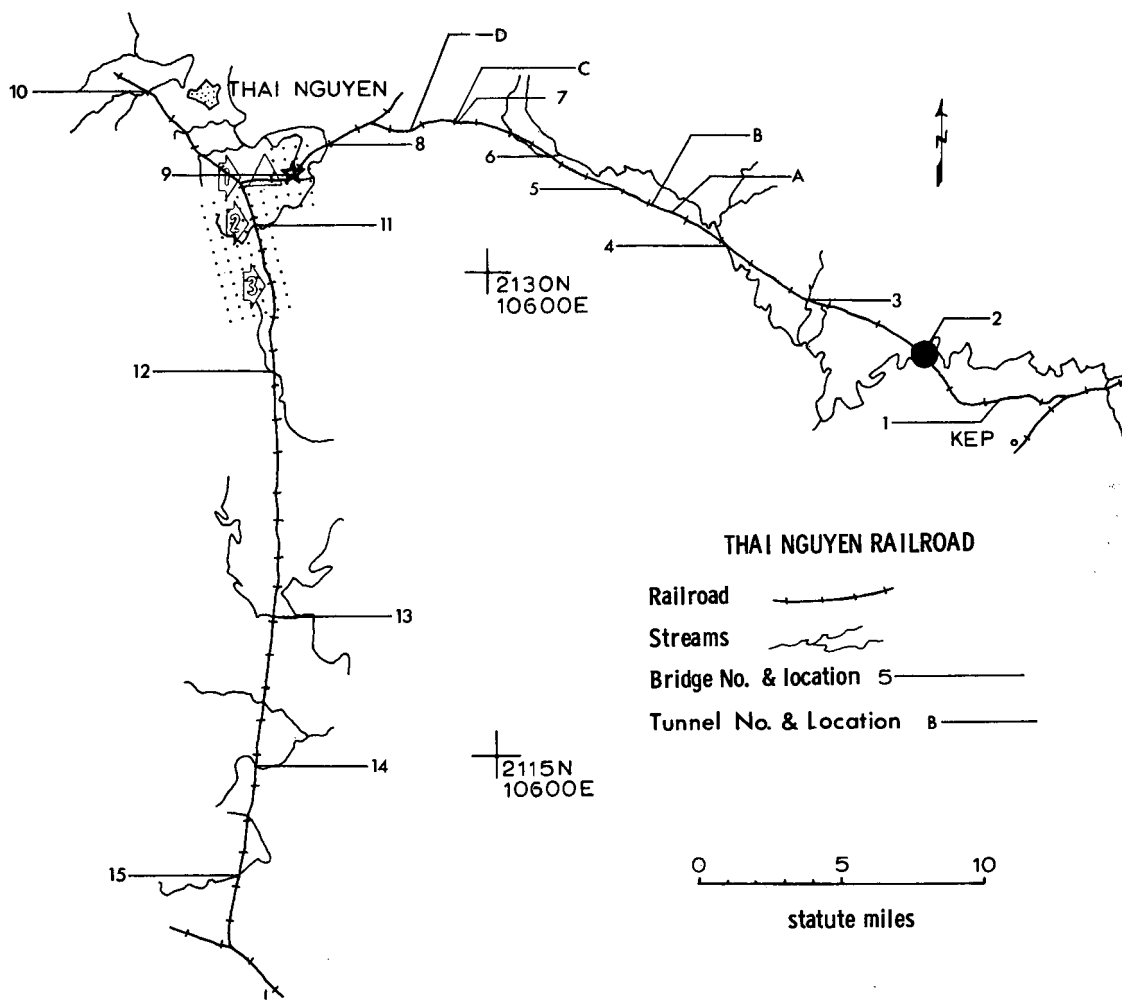
PIR 77155
FIGURE 15

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.



SECRET


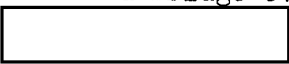
25X1




25X1

DDI IMAGERY ANALYSIS STAFF

STATUS OF PREVIOUSLY DAMAGED/DESTROYED BRIDGES
THAI NGUYEN RAIL LINE

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

25X1

* All data is compiled from photography 
Symbols: S - serviceable, U - unserviceable.

25X1



25X1

~~SECRET~~

25X1



DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 1: Thai Nguyen Rail Line

NAME : Lang Lau RR By-Pass Under Construction over Song Cau

BE : NA

COORDINATES : 21 33N - 105 54E, WJ 927834

25X1

PHOTO REFERENCE



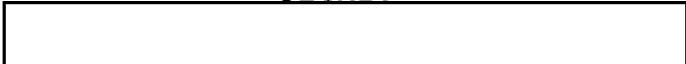
MAP REFERENCE : JOG (A) 1501, NF 48-11

A by-pass bridge under construction was observed approximately 1,700 feet southeast of the main bridge. The by-pass roadbed has been completed from the rail line on the northeast side of the main bridge to the river at the construction site. No piers or abutments were observed at the site. The by-pass roadbed on the southwest side of the main bridge is still being extended toward the construction site.



25X1

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01A/PR-77155



25X1


DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 2: Thai Nguyen Rail Line

NAME : Extension of Dual Gauge Track

BE : NA

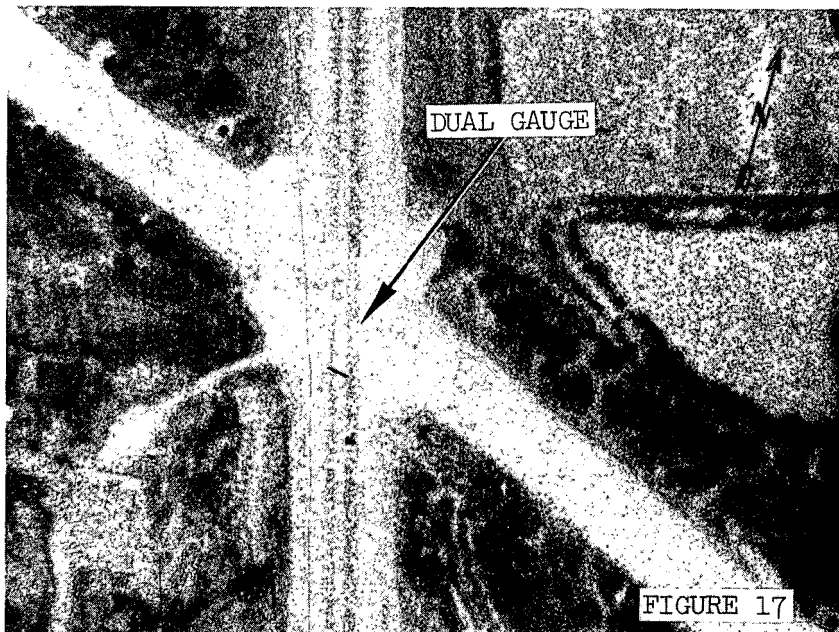
COORDINATES : 21 32N - 105 52E

PHOTO REFERENCE 

MAP REFERENCE : JOG (A) 1501, NF 48-11

25X1

Dual (i.e., standard and meter gauge) track has now been observed 1.8 nm south of Thai Nguyen with the addition of a 0.9 nm southward extension of photographically confirmed dual gauge track. It is probable that dual gauge track extends beyond this point.



~~SECRET~~



25X1

SECRET

25X1



DDI IMAGERY ANALYSIS STAFF

ITEM OF INTEREST NO. 3: Thai Nguyen Rail Line

NAME : New Rail Siding Under Construction

BE : NA

COORDINATES : 21 29N - 105 53E, WJ 914754

25X1

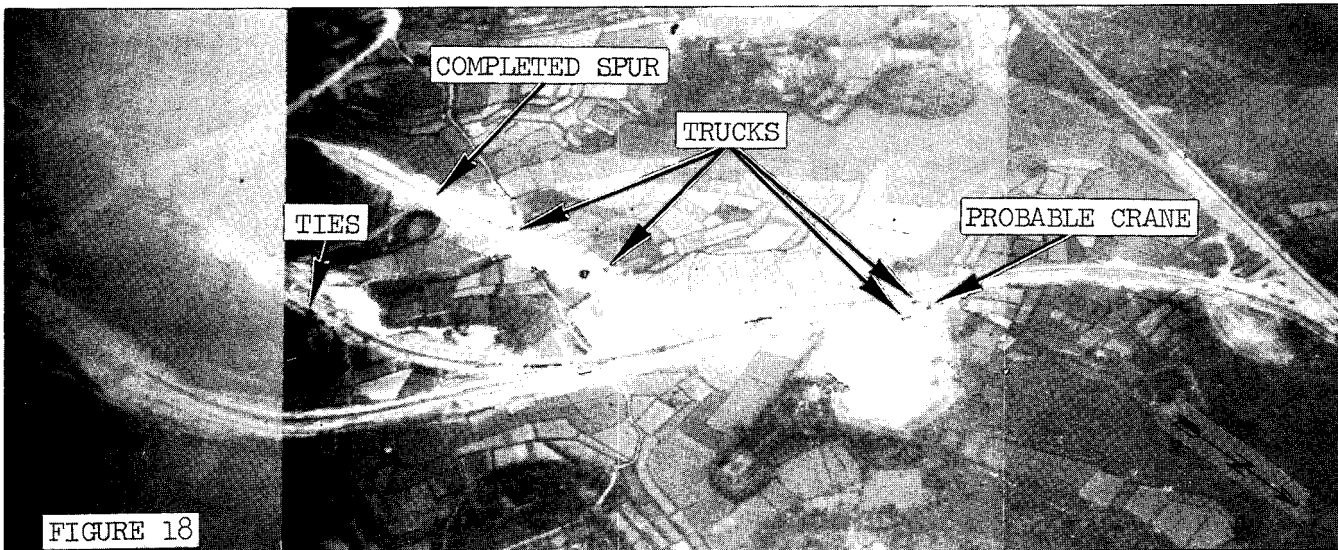
PHOTO REFERENCE



MAP REFERENCE : JOG (A) 1501, NF 48-11

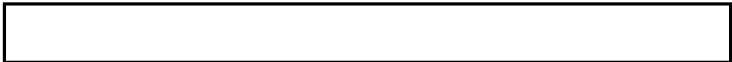
A new rail siding under construction is located 5.5 nm southeast of Thai Nguyen on the Thai Nguyen Rail Line. The siding consists of three spurs, two with a single track and one with double tracks. The siding appears in the late stages of construction. The roadbed has been completed and the track is in on one spur and nearing completion on the others. At this time the siding appears serviceable to a limited extent.

Four trucks and a probable crane were observed operating in the area.



25X1

SECRET



SECRET

25X1



25X1

SECRET

