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**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

**US ARMY UH-60
BLACK HAWK HELICOPTERS
87-26000 AND 88-26060**

VOLUME 8

TAB R

**AIRCRAFT
ACCIDENT INVESTIGATION BOARD
REPORT**

COPY

15

OF

14

**AFR 110-14 AIRCRAFT ACCIDENT BOARD
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DIAGRAMS

R-1 TAOR and Restricted Operating Zone Diagrams

R-2 VID and Engagement Diagrams

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R-5 Panorama of Accident Area

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RESTRICTED OPERATIONS ZONES



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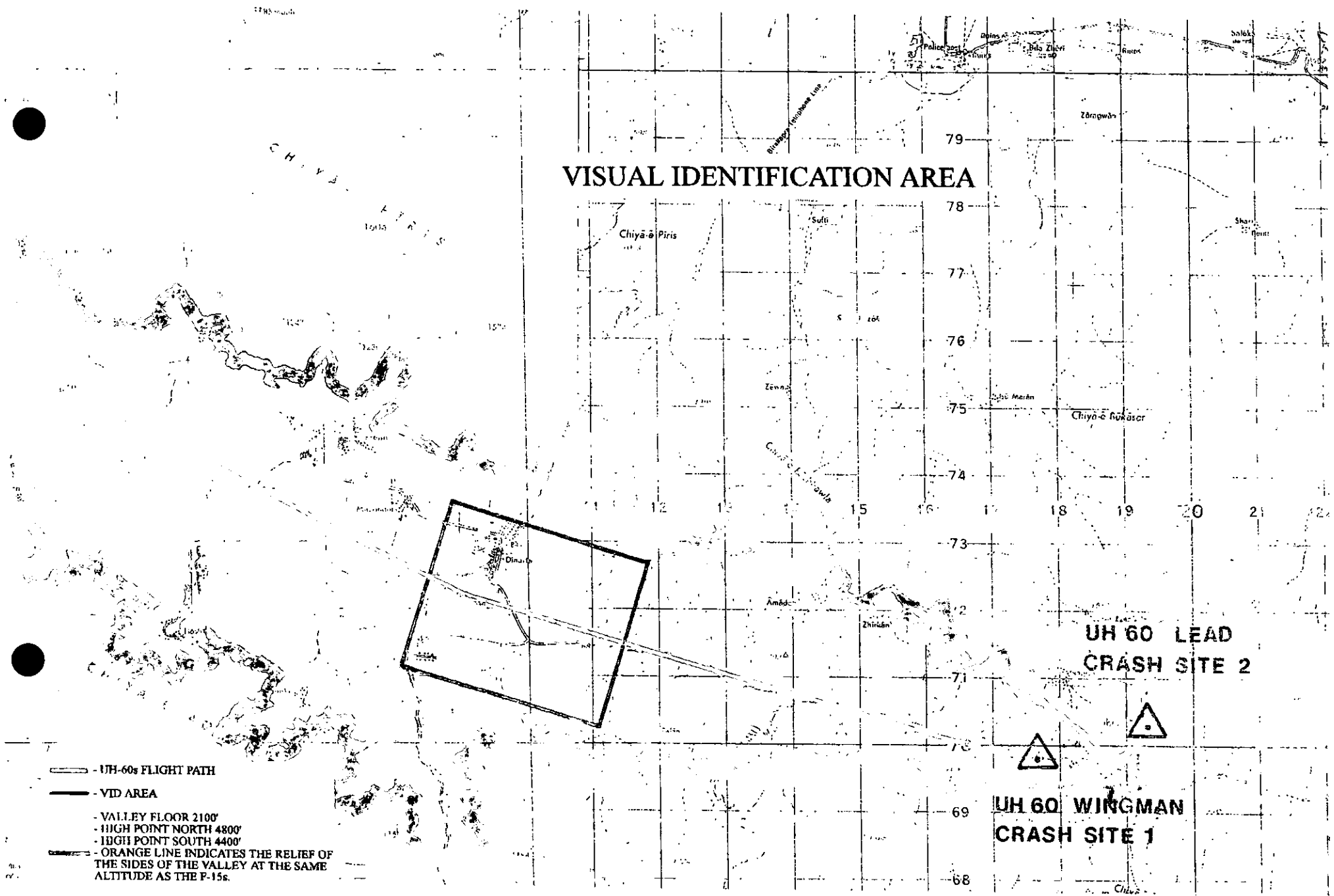
R-2

R-7 UH-60 Black Hawk 88-26060 Crash Site (Site 2)

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

TACTICAL AREA OF RESPONSIBILITY



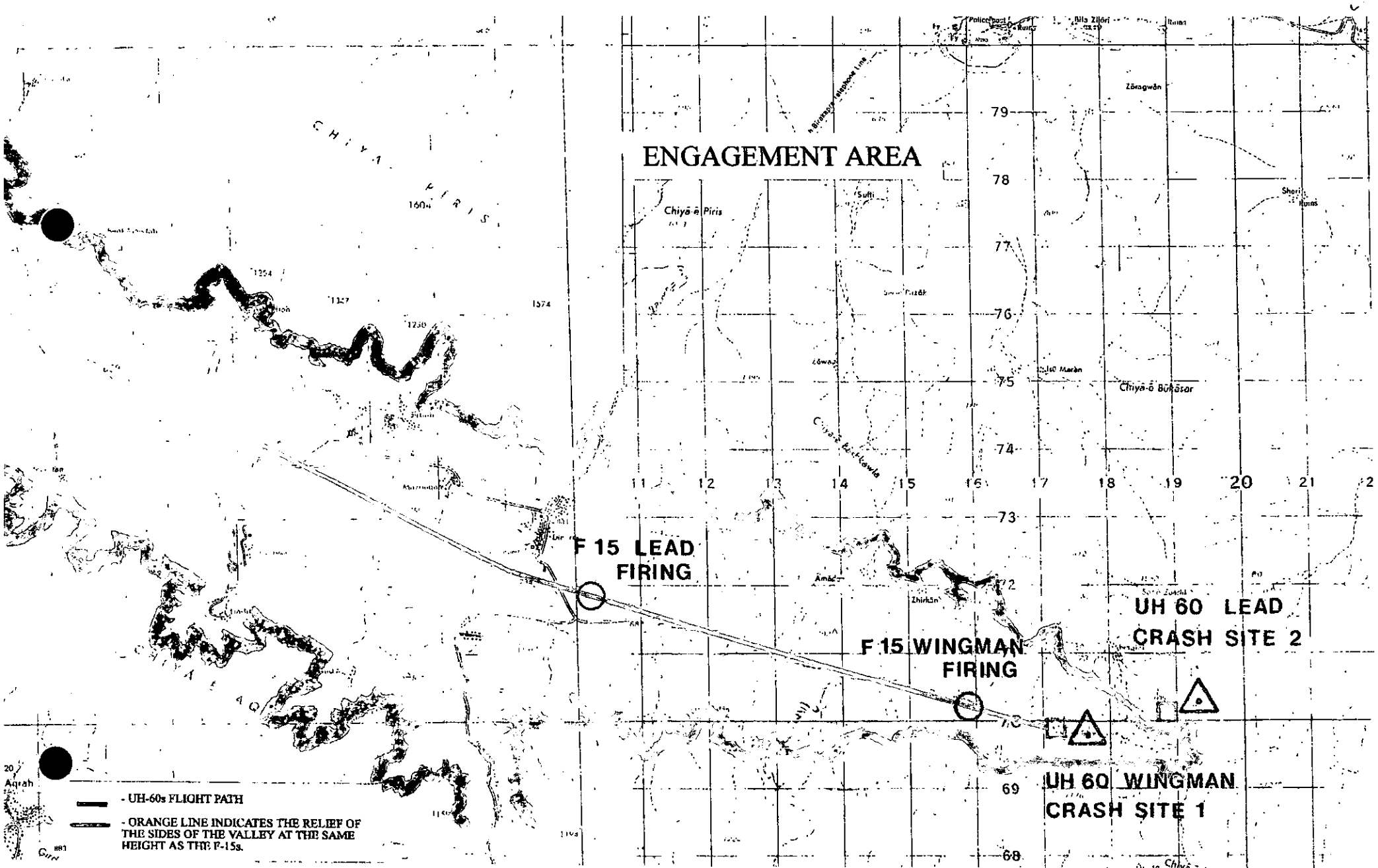


VISUAL IDENTIFICATION AREA

- UH-60s FLIGHT PATH
- VID AREA
- VALLEY FLOOR 2100'
- HIGH POINT NORTH 4800'
- HIGH POINT SOUTH 4400'
- ORANGE LINE INDICATES THE RELIEF OF THE SIDES OF THE VALLEY AT THE SAME ALTITUDE AS THE F-15s.

**UH 60 LEAD
CRASH SITE 2**

**UH 60 WINGMAN
CRASH SITE 1**



ENGAGEMENT AREA

F 15 LEAD FIRING

F 15 WINGMAN FIRING

UH 60 LEAD CRASH SITE 2

UH 60 WINGMAN CRASH SITE 1

- UH-60s FLIGHT PATH
- ORANGE LINE INDICATES THE RELIEF OF THE SIDES OF THE VALLEY AT THE SAME HEIGHT AS THE F-15s.

CHIYA
 PIRIS

Agriyany Agriyany Line

Chiya-e Piris

Sufi

79

78

77

76

75

74

73

72

71

70

69

68

11 12 13 14 15 16 17 18 19 20 21 22

Chiya-e Bukasar

Sari Zuada

Shah Maran

Zhirkan

Amac

Muyi

Chiya-e Kachkawa

Sari Ruzak

Sufi

Zragwan

Rums

Bila Zilori

Police

Amo

Barco

20

Agrah

HR1

CIN

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R-3

R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

74

101

105

115

111

139

137

F-15EAN
RADAR CONTACT
0722 (Z)

F-15E
RADAR CONTACT
0723 (Z)

F-15E
RESIDED
0725 (Z)

F-15EAD
RADAR CONTACT
0726 (Z)

78

91

LG MG
LF MF

50

75

74

72

82

F-15EAD
RESIDED
0727 (Z)

F-15EAD
RADAR CONTACT
0728 (Z)

2¹¹

3⁴

3⁹

2²

4³

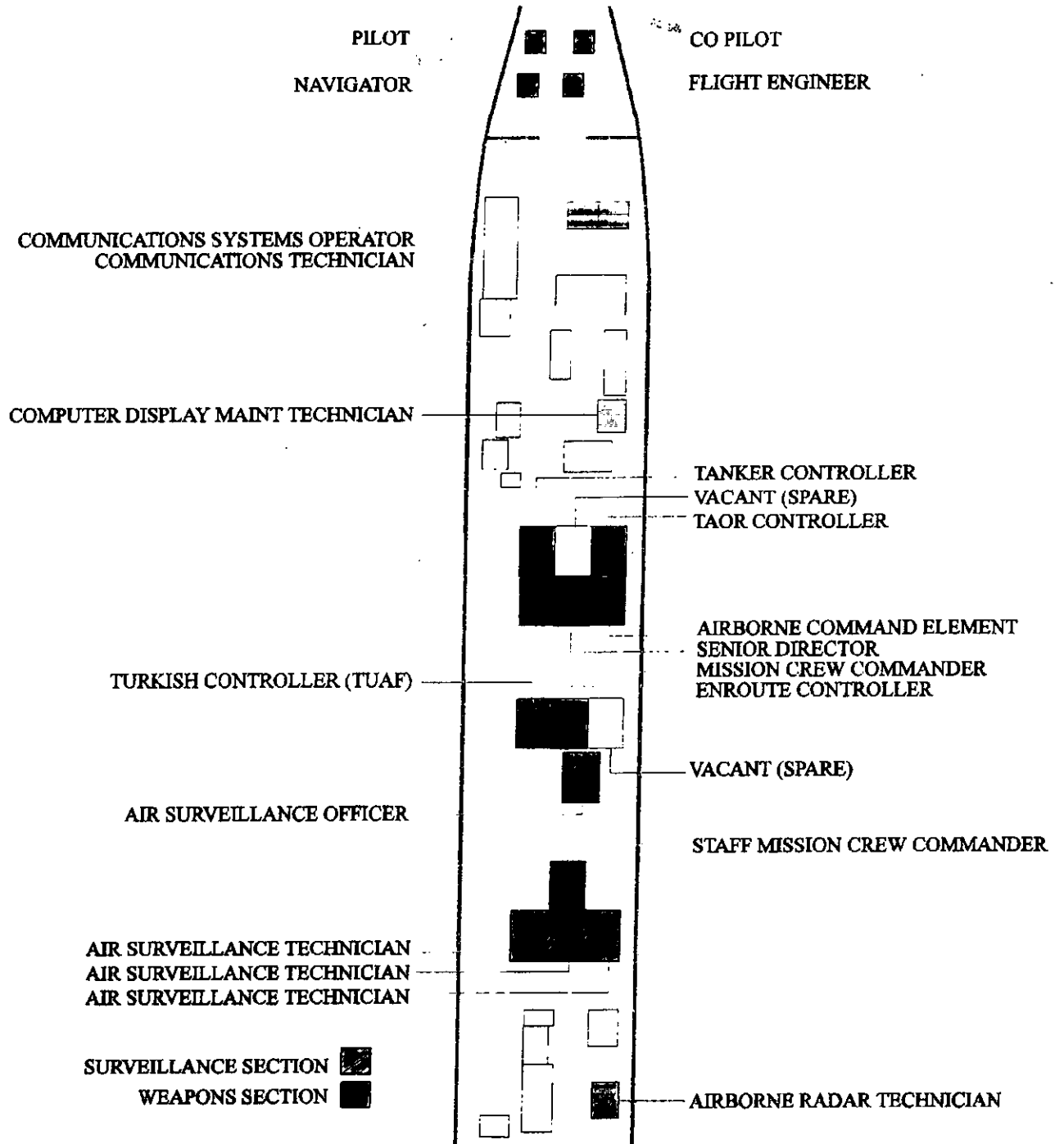
5⁶

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DIAGRAMS

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E-3B AWACS



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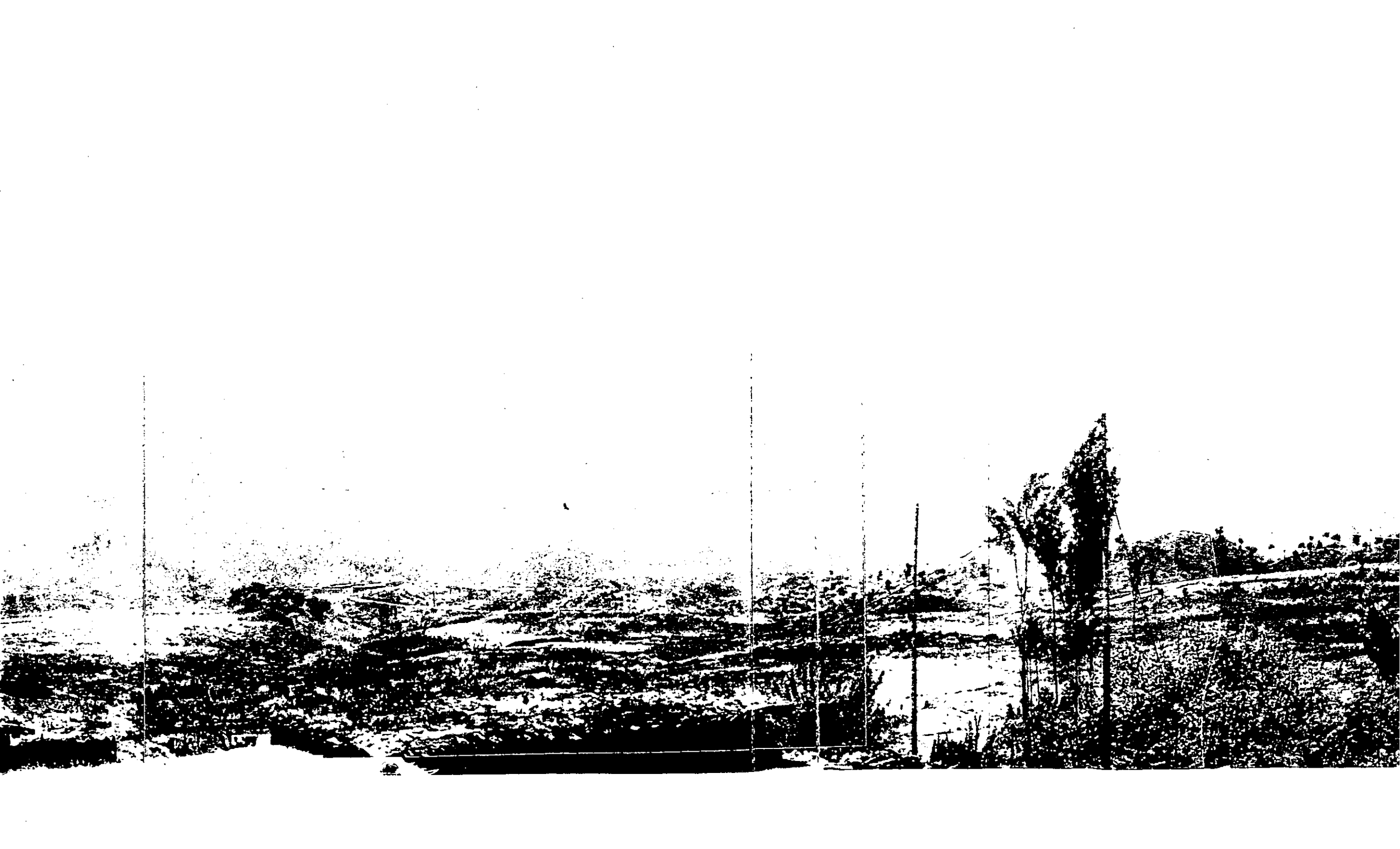
R-5 Panorama of Accident Area

R-6 UH-60 Black Hawk 88-26060 Flight Path Diagrams

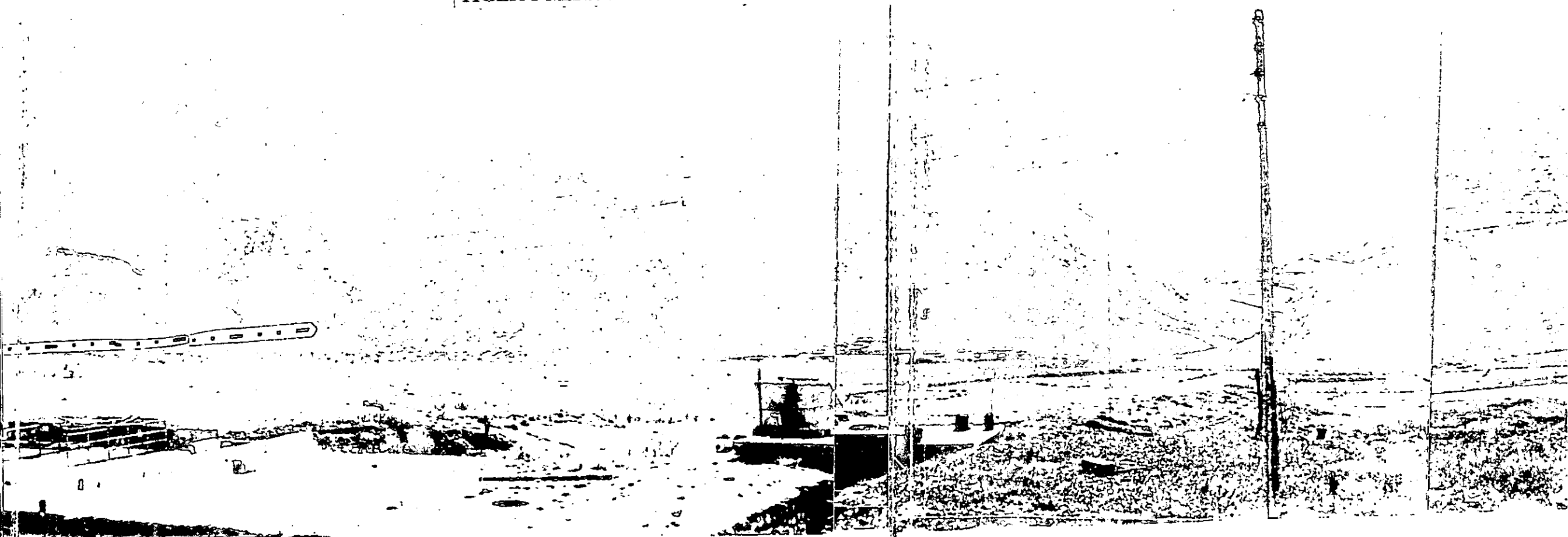
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R-8 UH-60 Black Hawk 87-26000 Crash Site (Site 1)

**R-1
R-2
R-3
R-4
R-5**



TIGER 1 MISSILE LAUNCH POINT



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R-6



BR
AB 09)

FLIGHT PATH TO
TE 2 (EAGLE LEAD)
TAIL NO. 88-26060

APPROX FLIGHT
ROUTE OF
EAGLE LEAD



An aerial photograph of a wooded area. A road or path is visible, running horizontally across the middle of the image. On the right side, a specific location is marked with a dashed line forming a semi-circle. The terrain is covered with trees and vegetation. There are two text boxes overlaid on the image: one in the upper right and one in the lower right.

EAGLE 1'S
TURNING
POINT INTO
RAVINE

TAP
(SEE TAB 09)

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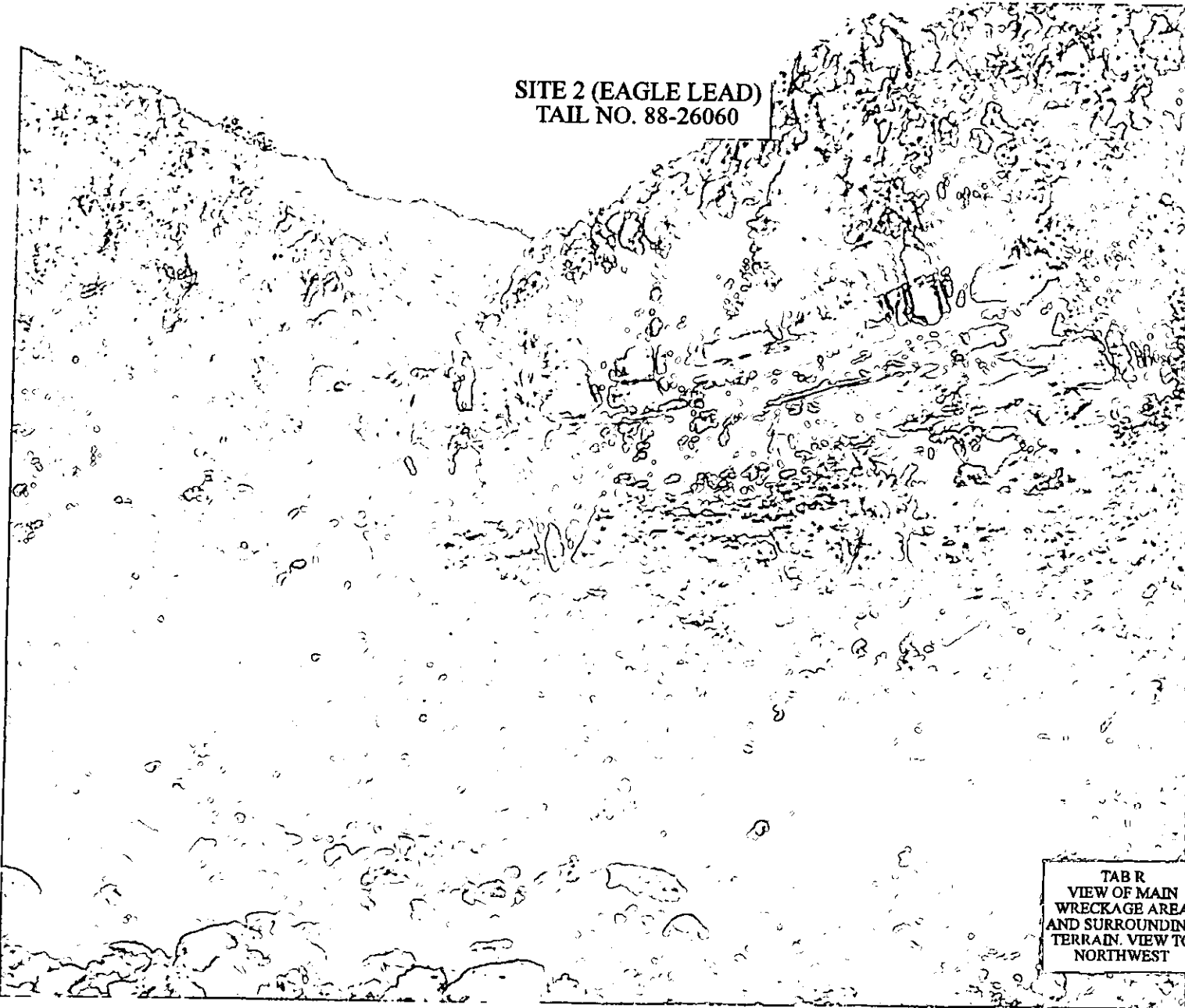
R-3

R-4

R-5

R-6

R-7



SITE 2 (EAGLE LEAD)
TAIL NO. 88-26060

TAB R
VIEW OF MAIN
WRECKAGE AREA
AND SURROUNDIN
TERRAIN. VIEW TO
NORTHWEST

SITE 2 (EAGLE LEAD)
TAIL NO. 86-26060



MAIN TRANSMISSION
WITH 2 ROTOR
BLADES ATTACHED

TAB R
VIEW OF WRECKAGE
DISTRIBUTION
(MODIFIED BY
RESCUE CREWS)
VIEW TO NORTHWEST
(SEE TAB 09)



LEFT
ENGINE

SITE 2 (EAGLE LEAD)
TAIL NO. 88-26060

MAIN
TRANSMISSION

TAB R
VIEW OF WRECKAGE
AND MAIN
TRANSMISSION
VIEW TO NORTH
(SEE TAB 09)

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R-8



SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000


MAIN
TRANSMISSION

TAB R
MAIN FUSELAGE
WRECKAGE
VIEW TO NORTH
(SEE TAB 09)

SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000



TAB R
WRECKAGE
DISTRIBUTION
VIEW TO SOUTHEAST
(SEE TAB 09)

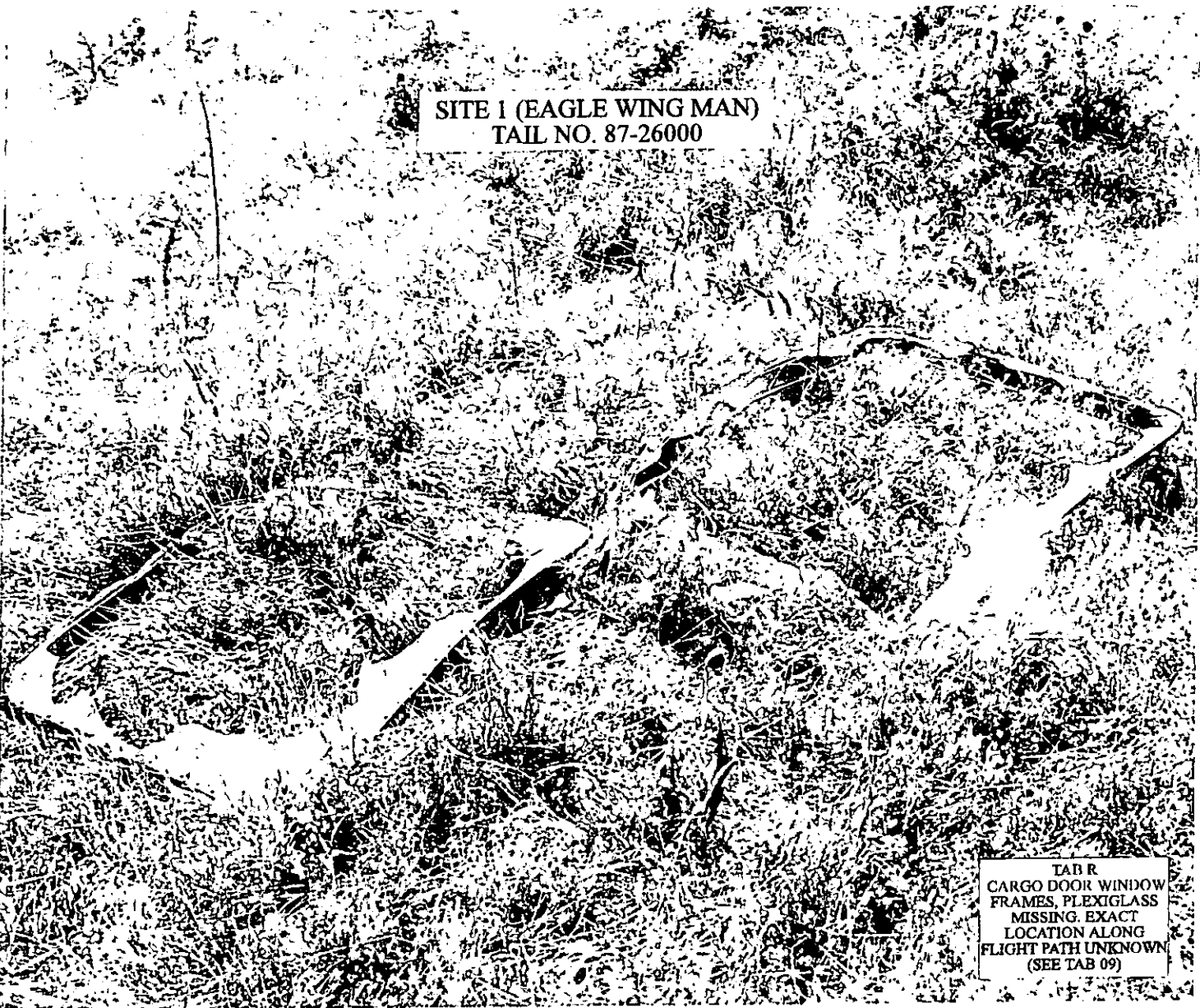


SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

LEFT
EXTERNAL
FUEL
TANK

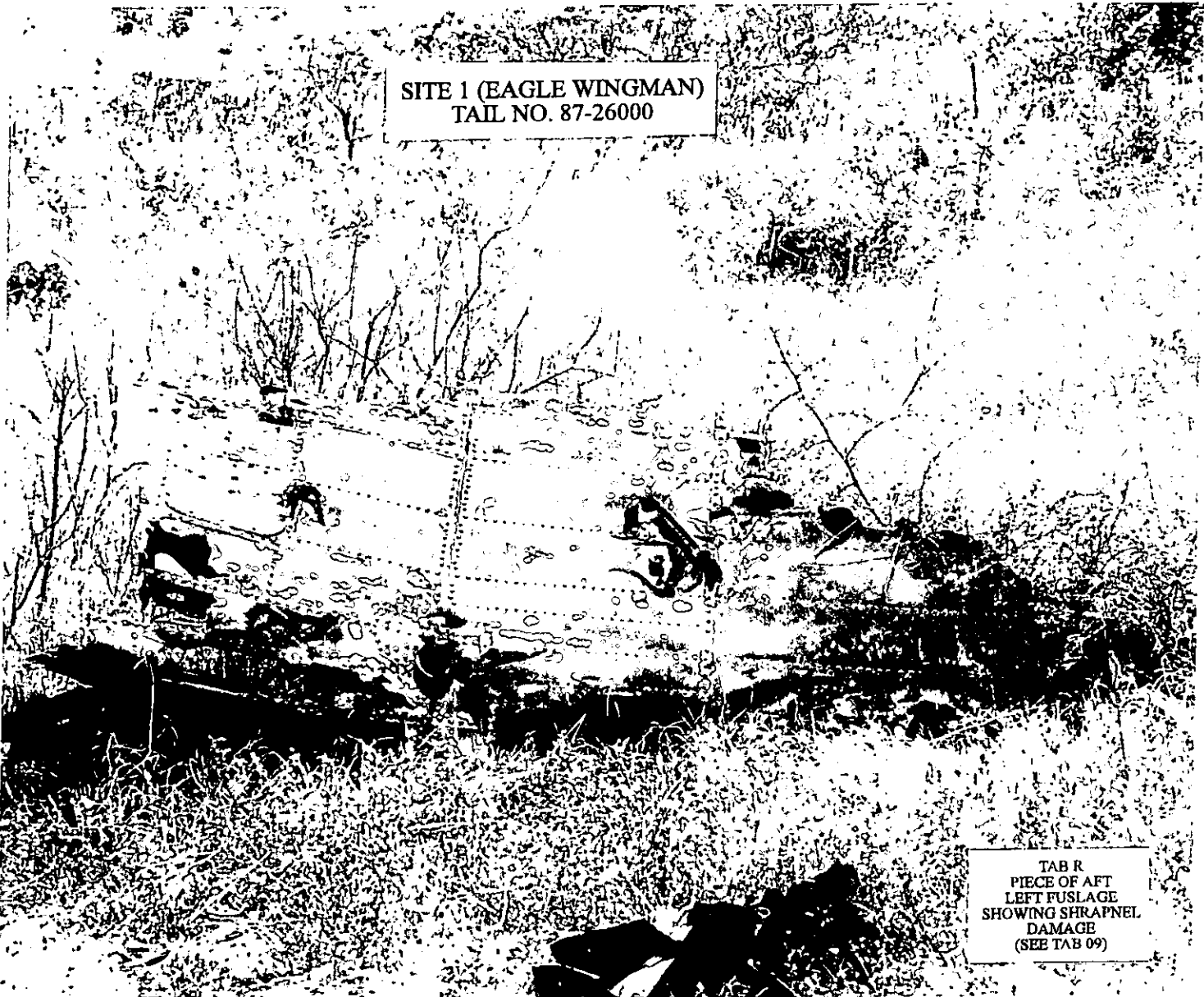
SECTION
OF
FLOOR
PLAN

TAB R
WRECKAGE DISTRIBUTION
VIEW FROM FUSELAGE
WRECKAGE TO
SOUTHEAST
(SEE TAB 09)



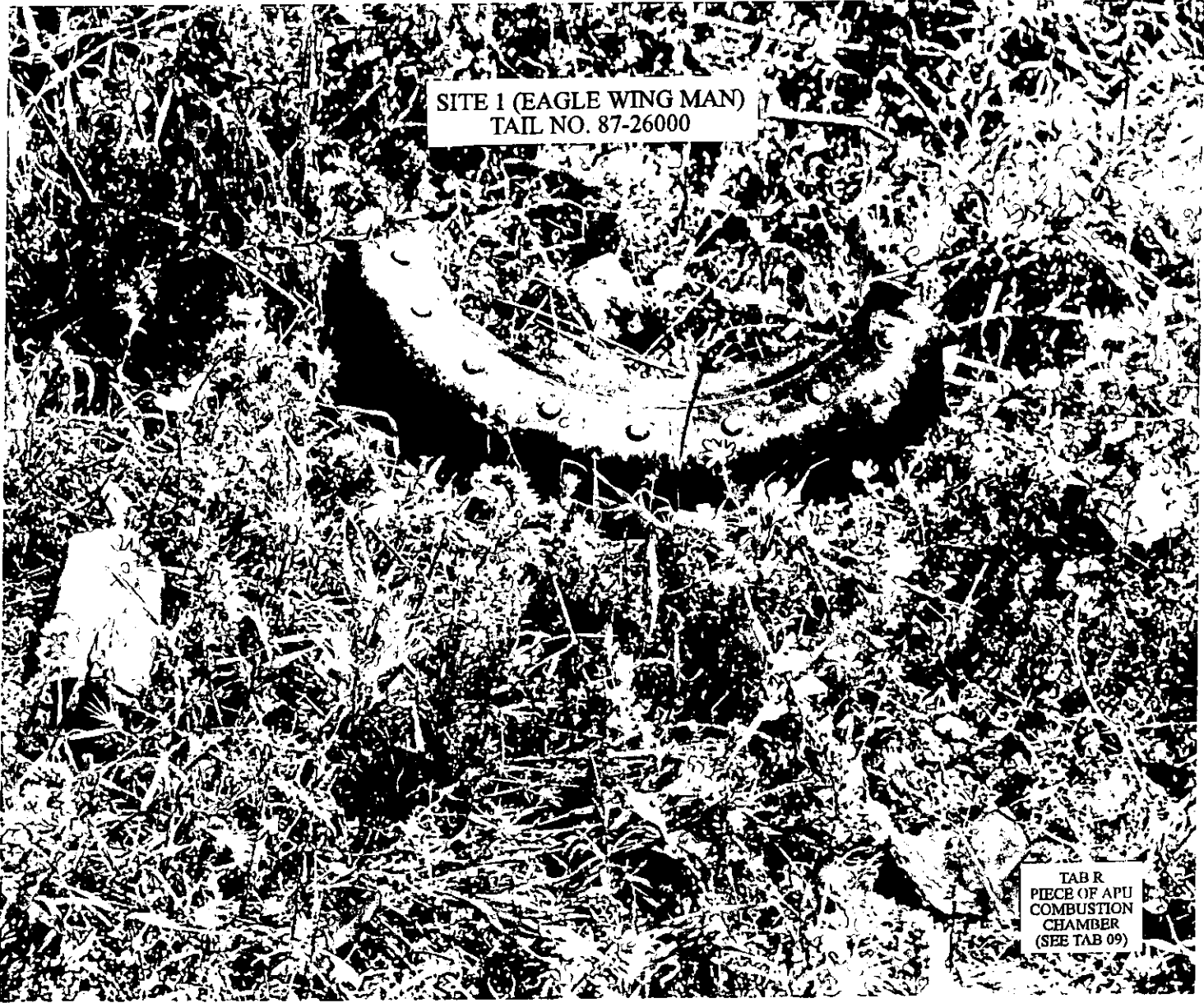
SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
CARGO DOOR WINDOW
FRAMES, PLEXIGLASS
MISSING. EXACT
LOCATION ALONG
FLIGHT PATH UNKNOWN
(SEE TAB 09)




SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

TAB R
PIECE OF AFT
LEFT FUSLAGE
SHOWING SHRAPNEL
DAMAGE
(SEE TAB 09)



SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
PIECE OF APU
COMBUSTION
CHAMBER
(SEE TAB 09)

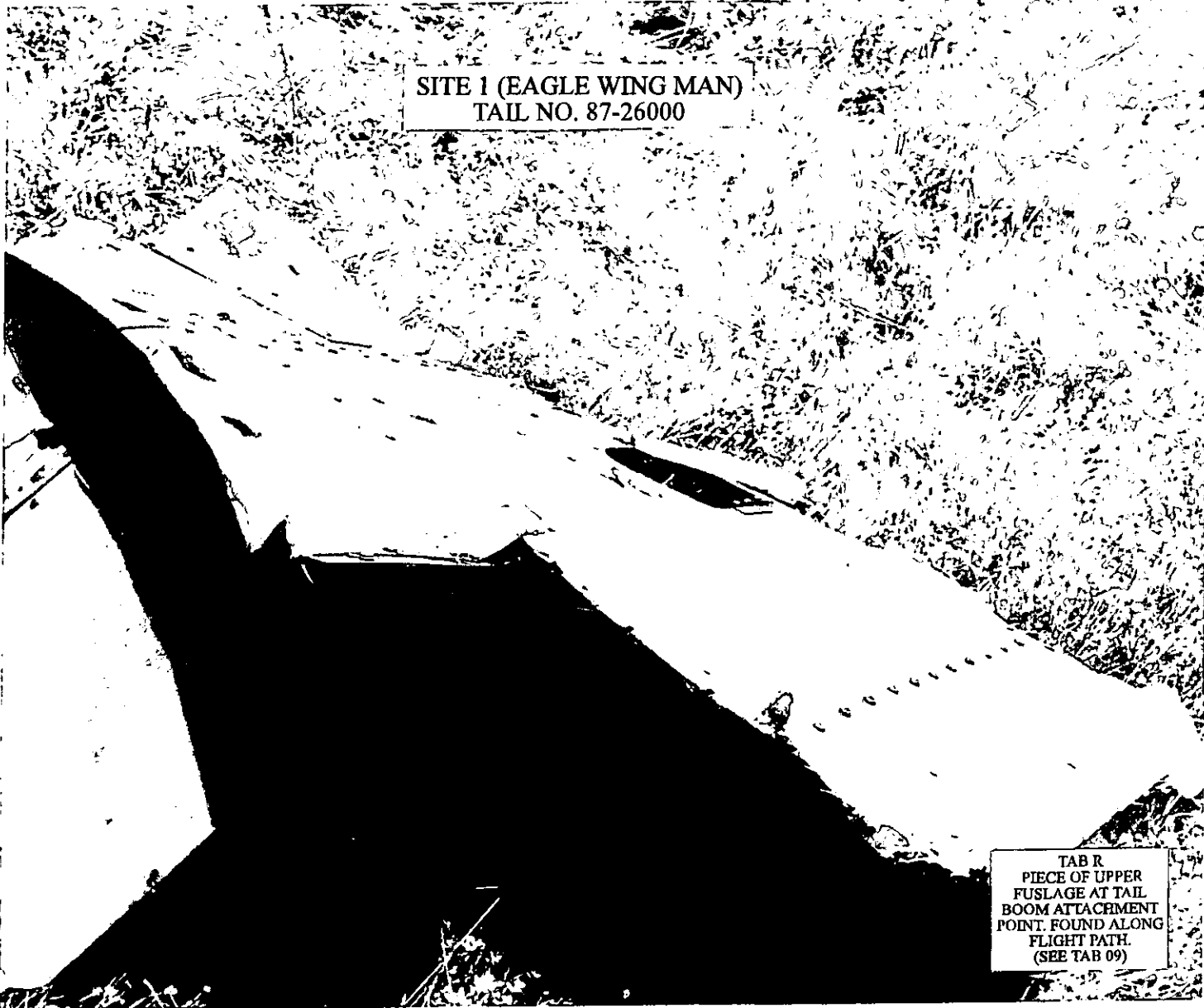


SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

MAIN
TRANSMISSION


RIGHT
WHEEL
HUB

TAB R
MAIN FUSELAGE
WRECKAGE
VIEW TO NORTH
(SEE TAB 09)




SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
PIECE OF UPPER
FUSLAGE AT TAIL
BOOM ATTACHMENT
POINT. FOUND ALONG
FLIGHT PATH.
(SEE TAB 09)



SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

TAB R
FM RADIO (ARC-164)
SHOWING EXTENSIVE
BURN DAMAGE
(SEE TAB J1)



SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
CHAFF FROM THIS
DISPENSER WAS
FOUND 1,320 FEET
FROM MAIN WRECKAGE
(SEE TAB 09)

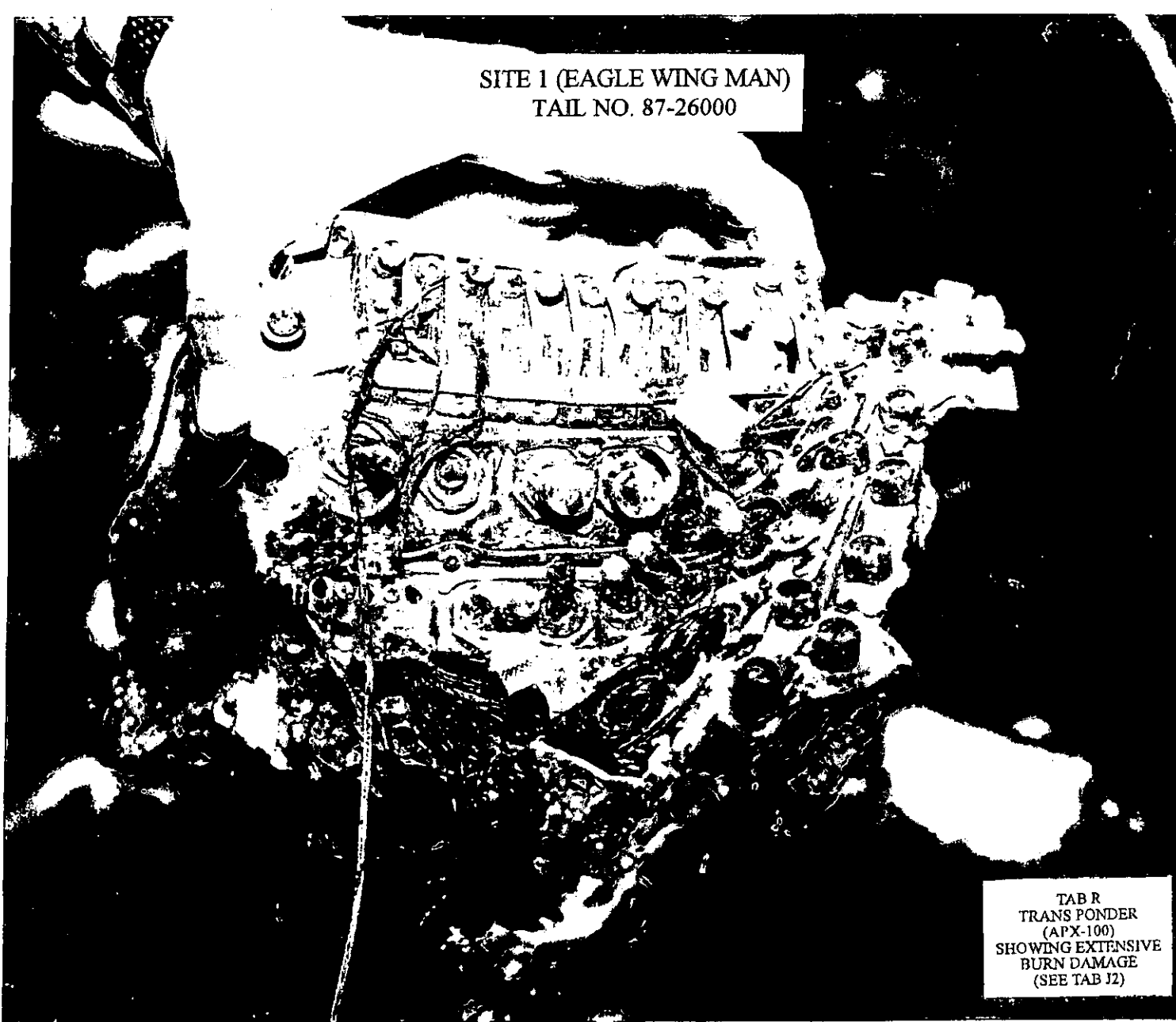
SITE 1 (EAGLE WINGMAN)
TAIL NO. 87-26000

200
KNOTS
150

L-G V 40
DN 7

TAB R
AIR SPEED
INDICATOR
(SEE TAB 09)

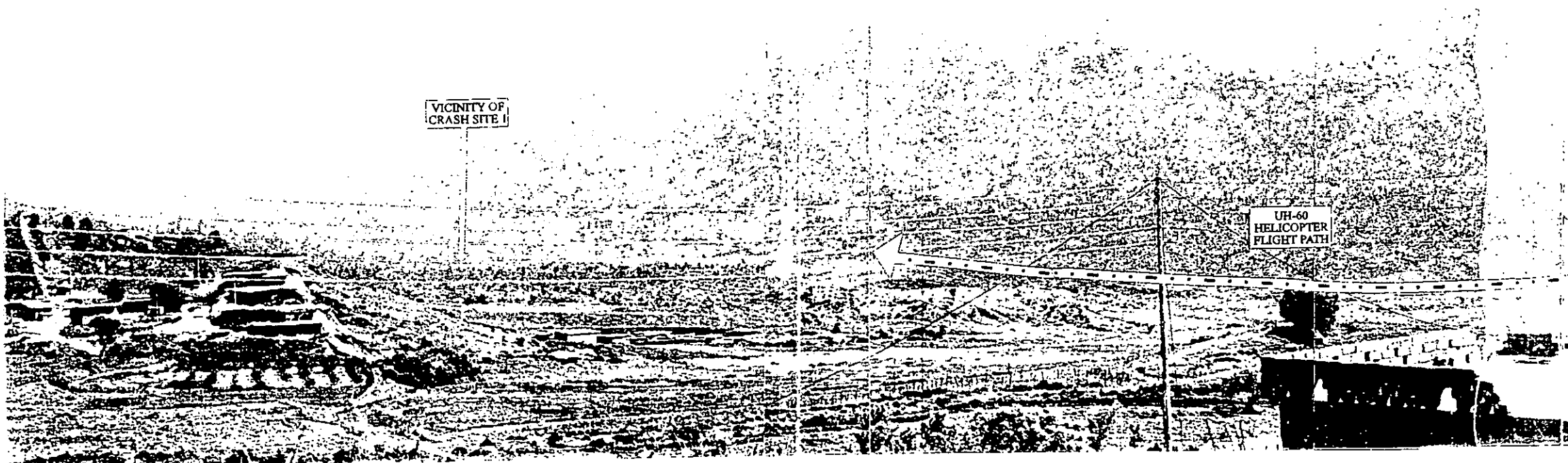




SITE 1 (EAGLE WING MAN)
TAIL NO. 87-26000

TAB R
TRANS PONDER
(APX-100)
SHOWING EXTENSIVE
BURN DAMAGE
(SEE TAB J2)

PANORAMA OF VALLEY
(Looking South)



INITIAL
IMPACT
POINT

MAIN
FUSELAGE





MAIN
FUSELAGE

RIGHT
EXTERNAL
FUEL
TANK

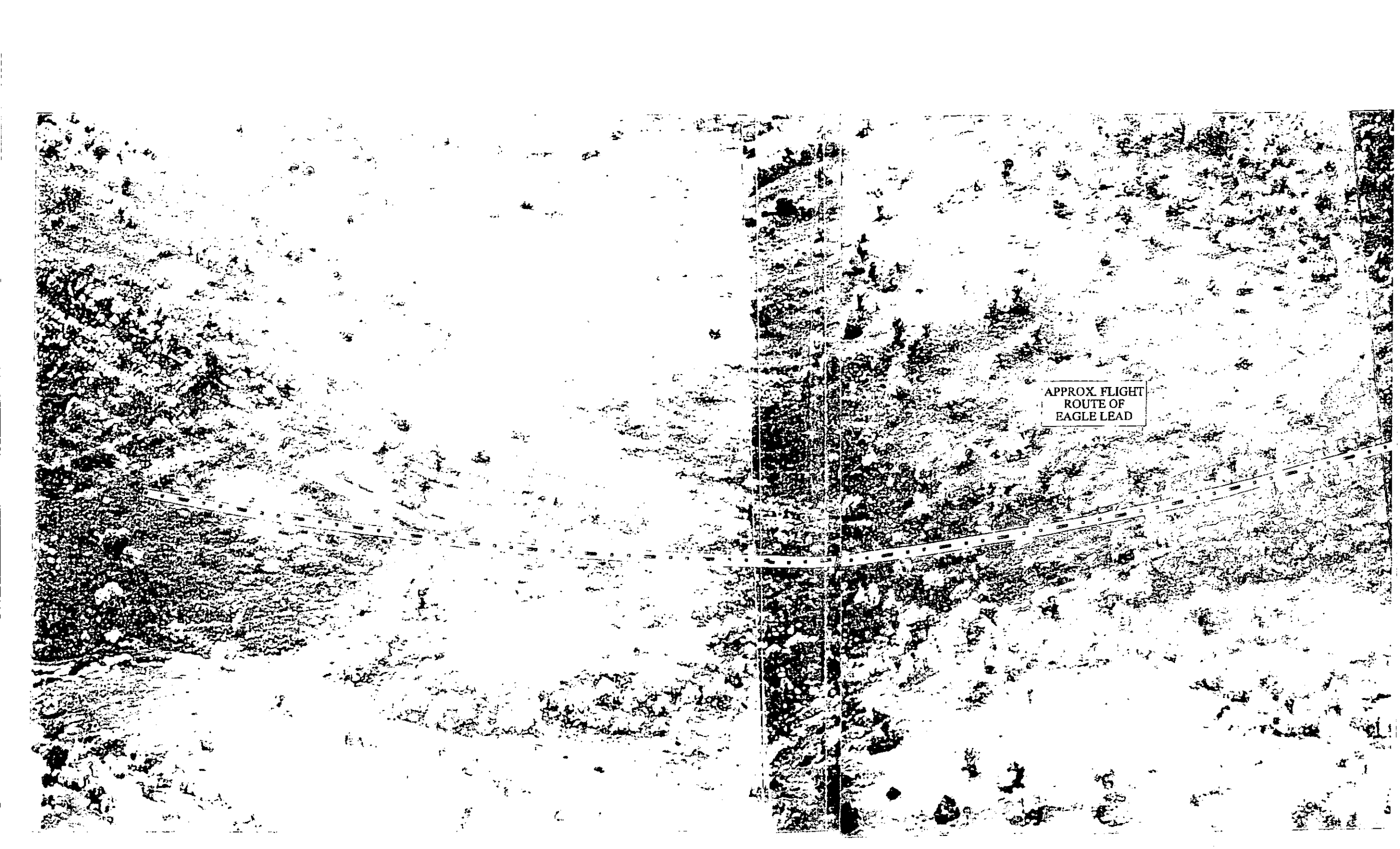


APPROX. FLIGHT
ROUTE OF
EAGLE LEAD

AREA
OF 3 CUT
TREES

CRASH
SITE 2

TAB R
VIEW OF EAGLE
LEAD'S ROUTE
IN RAVINE AND
CRASH SITE.
(SEE TAB 09)



APPROX. FLIGHT
ROUTE OF
EAGLE LEAD