

S-133-10

**MINUTEMAN
WS-133 B**

**REQUIREMENTS
AND DESCRIPTION**

WING VI

406 831

VOLUME 1B

FLOW DIAGRAMS

OPERATIONAL

VANDENBERG AFB

USAF

**AIR FORCE SYSTEM COMMAND
BALLISTIC SYSTEMS DIVISION**

D2-30044-1B

THE **BOEING** COMPANY

CODE IDENT NO. 81205

NUMBER D2-30044-1B

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DESCRIPTION, S-133-10

MODEL NO. WS-133B CONTRACT NO. AF04(694)-266

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TECHNICAL PREPARATION BY AGE SYSTEMS ENGINEERING

DOCUMENT PREPARED BY WING VI DOCUMENTATION

SUPERVISED BY W. J. Dempsey

APPROVED BY D. G. Stensrud

APPROVED BY _____

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VOL. NO. 1 B OF 9
SECT. _____ PAGE Title
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ACTIVE PAGE RECORD

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NO. D2-30044-1B

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PAGE A

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	Complete revision. Volume I divided into Volumes 1A and 1B.	2-15-3	
B	Added pages B, V-1, V-2, V-3, V-4, V-5 & V-6 Revised pages Title, A, i, iv, v, vii, IV-1, IV-2, IV-6, IV-16, IV-17, IV-22	3-5-3	<i>[Signature]</i>
C	Completely Revised to Include Associate Contractors 1.0 & 2.0 Lower Flows. Deleted Section V (VAFB Flows).	5-13-3	<i>[Signature]</i> 5/5/3

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SECT.

PAGE B

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
A	Complete revision. Volume I divided into Volumes IA and IB.	2-15-3	
B	Added pages B, V-1, V-2, V-3, V-4, V-5 & V-6 Revised pages Title, A, i, iv, v, vii, IV-1, IV-2, IV-6, IV-16, IV-17, IV-22	3-5-3	<i>[Signature]</i>
C	Completely Revised to Include Associate Contractors 1.0 & 2.0 Lower Flows. Deleted Section V (VAFB Flows).	5-13-3	<i>[Signature]</i> 5/5/3

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SECTION IV - Operational Flows	IV - 1*

* Partial data; this information will be expanded in logical packages as developed and approved.

A. PURPOSE

The Weapon System Requirements and Description Document presents a detailed functional description of the WS-133B Weapon System in accordance with Task 2.0 of the statement of work, Contract AF04(694)-266. It provides source data for all agencies concerned with the development of equipment elements, facilities criteria, personnel and training requirements, technical manual data, provisioning data and logistics planning.

B. SCOPE

This volume contains the master functional flow diagram (Illustration 1) and the lower level functional flow diagrams developed during the System Requirements Analysis for the Operational Weapon System. This analysis was performed in accordance with AF/BSD Exhibit 62-62, utilizing the base line, defined in Task 2.0 of the Statement of Work, as a point of departure.

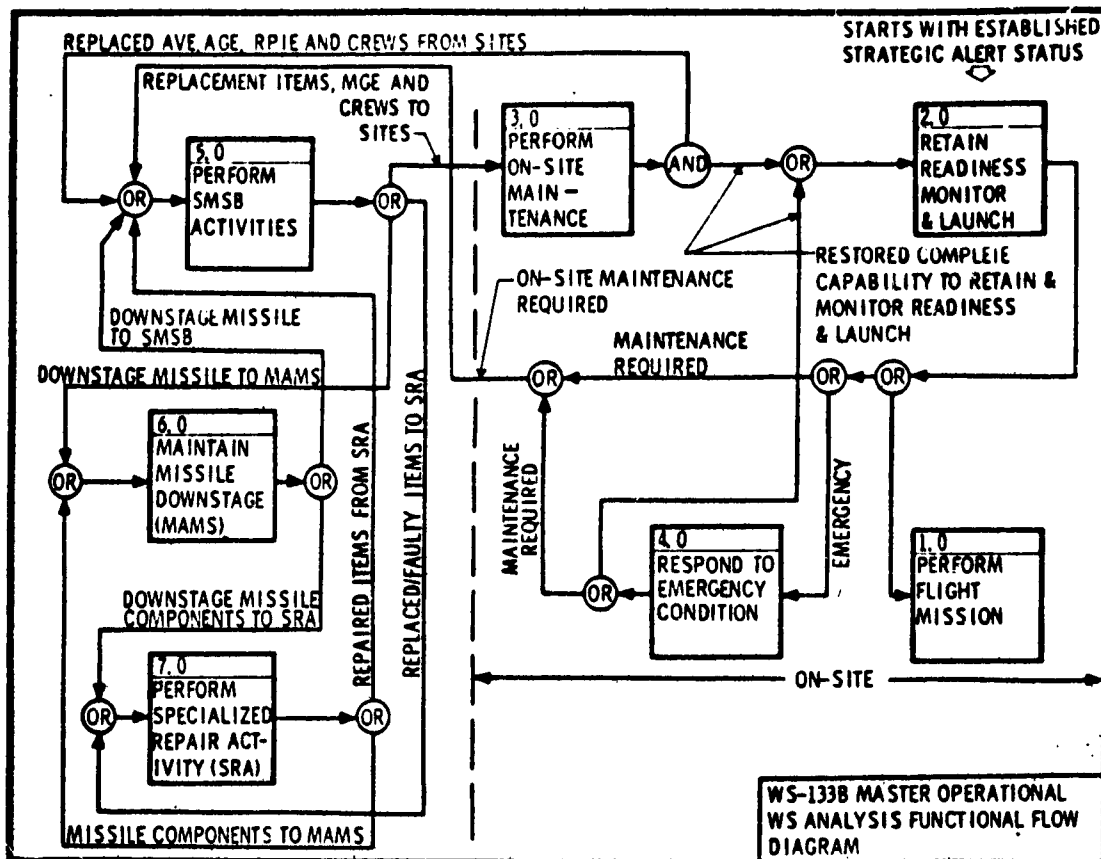
The VAFB Category III Test program functional flow diagrams are contained in Volume 1C.

C. FUNCTION NUMBERING

1. Wing VI Operational function numbering is based on the relative level of the flows in descending order.

The first level functions are identified by the master whole number, a decimal point, and the function number, (Example: 1.1 through 1.XX or 4.1 through 4.XXX, etc.). Second level flows contain a second decimal point and the function number, (Example: 5.41.1 through 5.41.1XX, etc.). This system continues through as many levels as necessary to identify the functions.

WS-133B REQUIREMENTS ANALYSIS MASTER FUNCTIONAL FLOW DIAGRAM - OPERATIONAL



MASTER OPERATIONAL FUNCTIONAL FLOW DIAGRAM

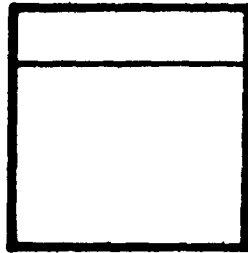
This flow diagram is the top functional flow for the Wing VI operational weapon system. The sequence of events starts with the missiles installed and in Strategic Alert Status. The flow then proceeds through confidence monitor, missile launch, missile flight, malfunction identification, on-site maintenance and transportation, support base maintenance, missile maintenance, and SRA Maintenance.

First level and lower level functional flows developed from this master functional flow diagram are presented in Section IV.

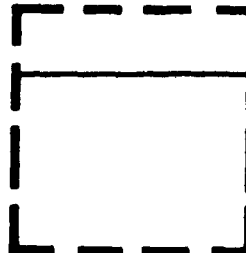
ILLUSTRATION 1

D. FUNCTIONAL FLOW DIAGRAMS - MECHANICS AND SYMBOLOGY

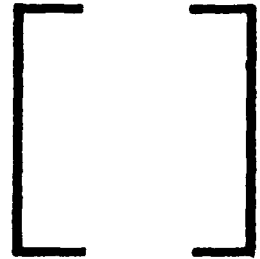
1. Each function is presented in a single box enclosed by a line (for this purpose a function is defined as a discrete identifiable entity causing a particular state or event to occur in the system).



**FIRM FUNCTION
BLOCK**

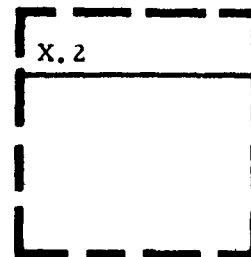
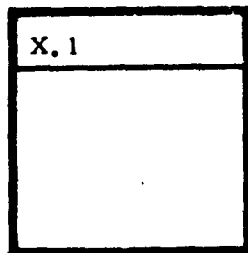


**SOFT FUNCTION
BLOCK**



**REFERENCE FUNCTION
BLOCK**

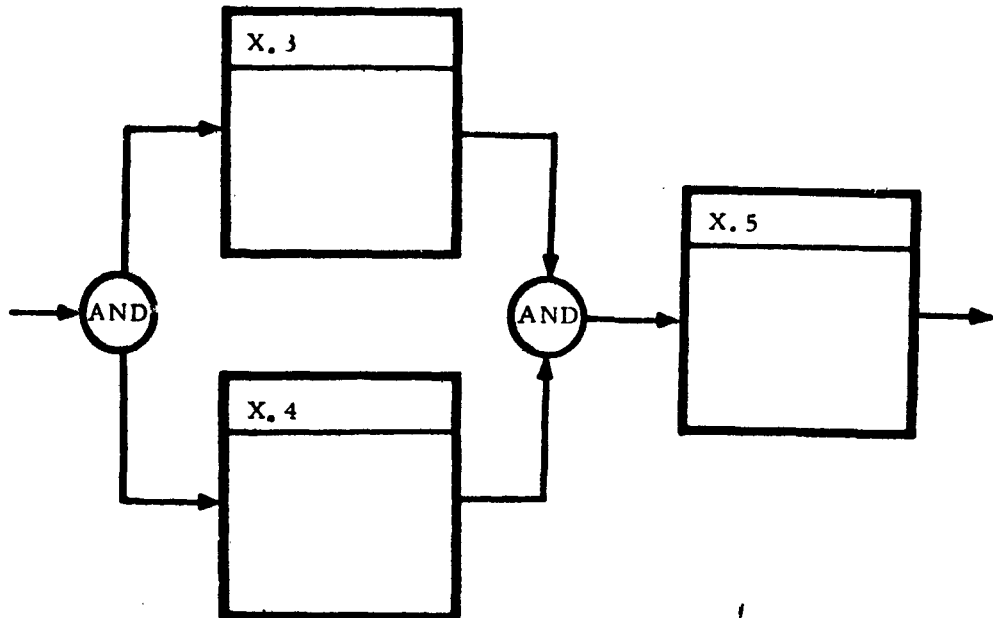
2. Each function is identified by a descriptive title and unique function number on a given flow which appears in the upper portion of the block.



3. Each function is either gross or detailed as required by the level of the flow on which it appears. The first level function identified by whole numbers are defined on the master flow diagram. The lower levels are defined by whole numbers followed by decimals. Form B numbers correspond to the lowest level at which a function is defined on a flow diagram.
4. The solid lines connecting the function blocks represent direction of flow, and do not represent time lapse or intermediate activity.
5. Dotted lines connecting function blocks represent the relationship between non-sequential and specific sequential functions.

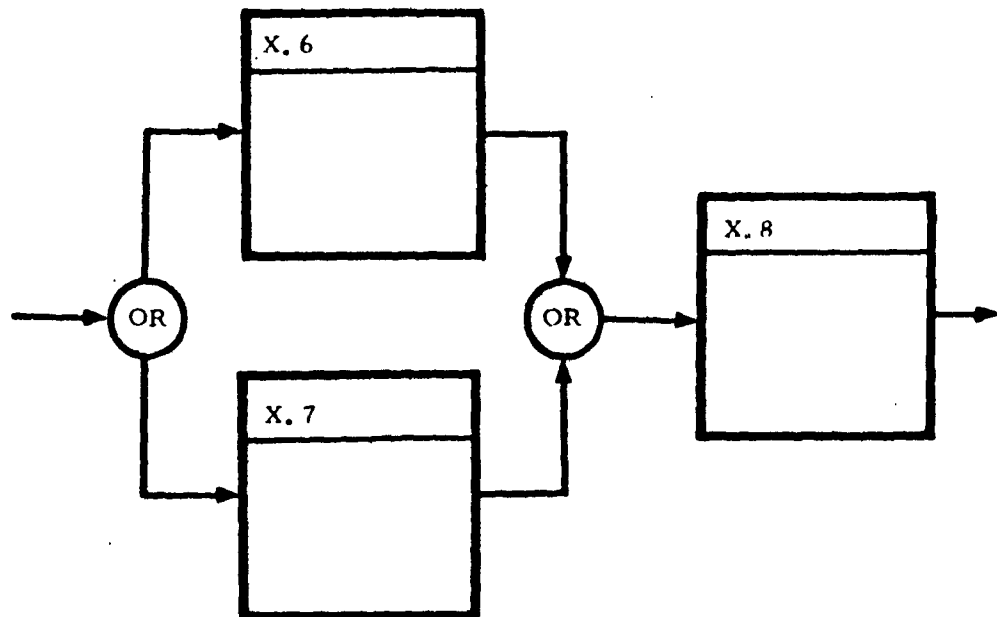
D. (Continued)

6. When two or more functions converge or emanate from a single point, two processes may occur; either an "AND" or an "OR". The process is enclosed in a circle, forming a "gate". The "AND" gate means that all paths of an expansion must be completed. The "OR" gate implies that a decision must be made, since only one path of the expansion need be accomplished to proceed along the flow.



BOTH X.3 AND X.4 MUST BE ACCOMPLISHED
BEFORE PROCEEDING TO X.5

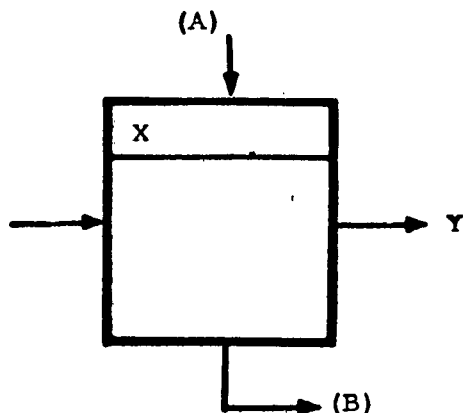
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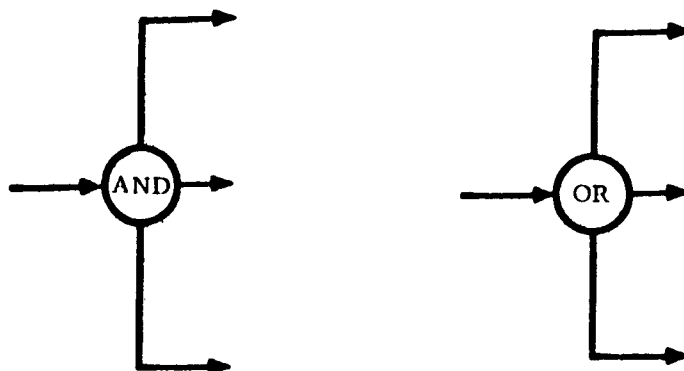
EITHER X. 6 OR X. 7 IS ACCOMPLISHED BEFORE
PROCEEDING TO X. 8

D. (Continued)

7. Normal flow inputs and outputs are from left to right on the sides of the function blocks. When an input occurs during the performance of a function, it is shown entering the top or bottom of the function block (A). When an output is generated during the performance of a function the output emanates from the top or bottom of the function block (B).



8. When more than two paths converge to or emanate from a gate, the gate symbol is not necessarily repeated.



MULTIPLE GATES

E.**GLOSSARY OF ABBREVIATIONS**

AFSC	Air Force Speciality Code or Air Force Systems Command
AGC	Aerojet General
AGE	Aero-Space Ground Equipment
AMA	Air Material Area
AN.	Autonetics
ATC	Air Training Command
AV	Avco
AVE	Aero-Space Vehicle Equipment
BOEING	The Boeing Company
BSD	Ballistic Systems Division
CEP	Circle of Equal Probability
CFE	Contractor Furnished Equipment
C/O	Checkout
DT & TE	Depot Tooling and Test Equipment
G&C	Guidance and Control
GES	Ground Electronics System
GFE	Government Furnished Equipment
GFP	Government Furnished Property
HPC	Hercules Powder Company, Magna, Utah
LCF	Launch Control Facility
MAMS	Missile Assembly and Maintenance Shops
MCC	Mobile Launch Control Center
MGE	Maintenance Ground Equipment
MLCC	Mobile Launch Control Center
NA	Not Applicable
OGE	Operational Ground Equipment

F.

(Continued)

PA	Penetration Aids
PAS	Primary Alert System
PROP	Propulsion
RFI	Radio Frequency Interference
RPIE	Real Property Installed Equipment
R/V	Re-entry Vehicle
SAC	Strategic Air Command
SMSB	Strategic Missile Support Base
STL	Space Technology Laboratories, Inc.
SYL	Sylvania
SYL (W)	Sylvania (West)
TAPS	Trajectory Accuracy Prediction System
TCC	Thiokol Chemical Corporation
T-R	Transformer - Rectifier
VAFB	Vandenberg Air Force Base
W/S	Weapon System

F. VOLUME INDEX

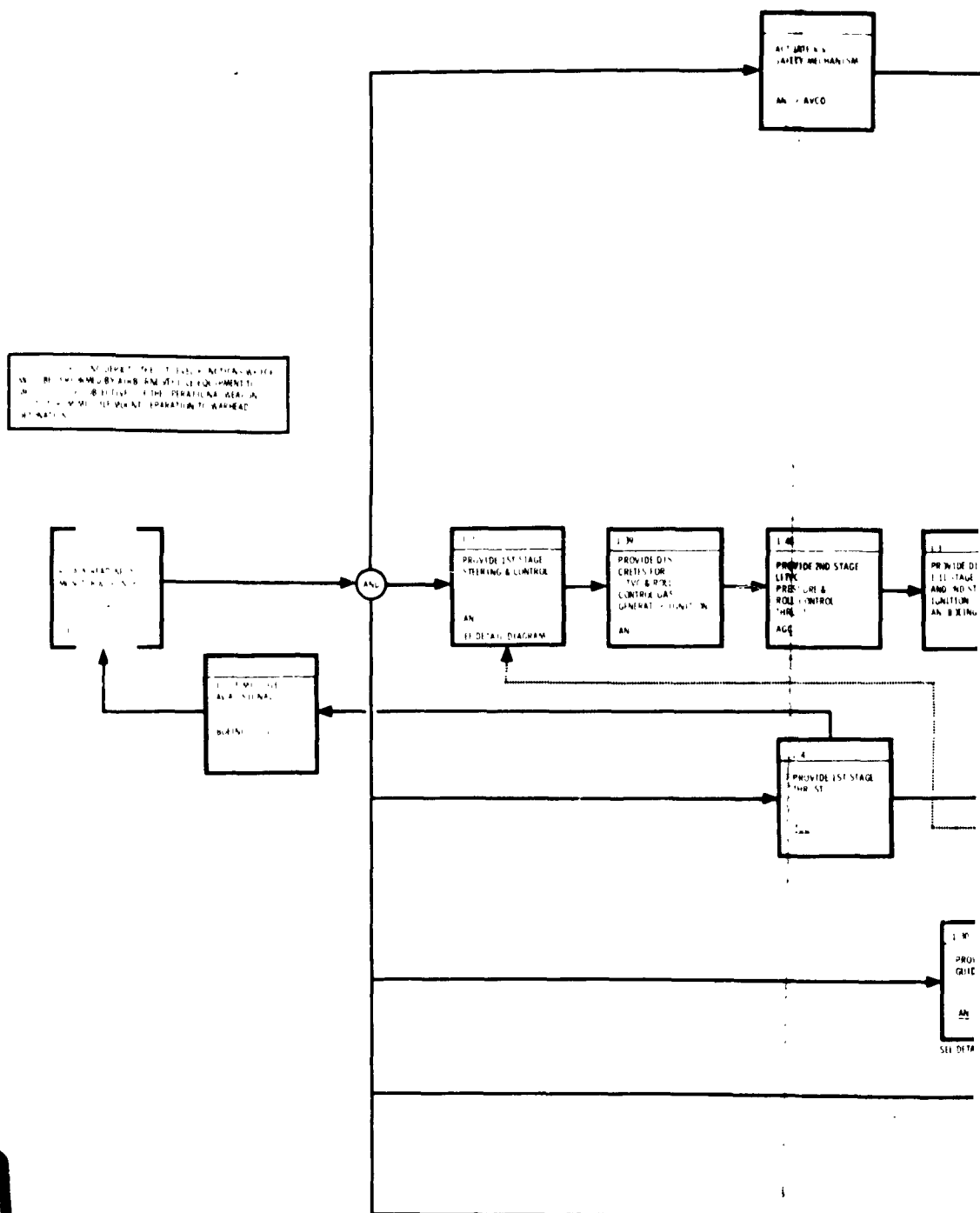
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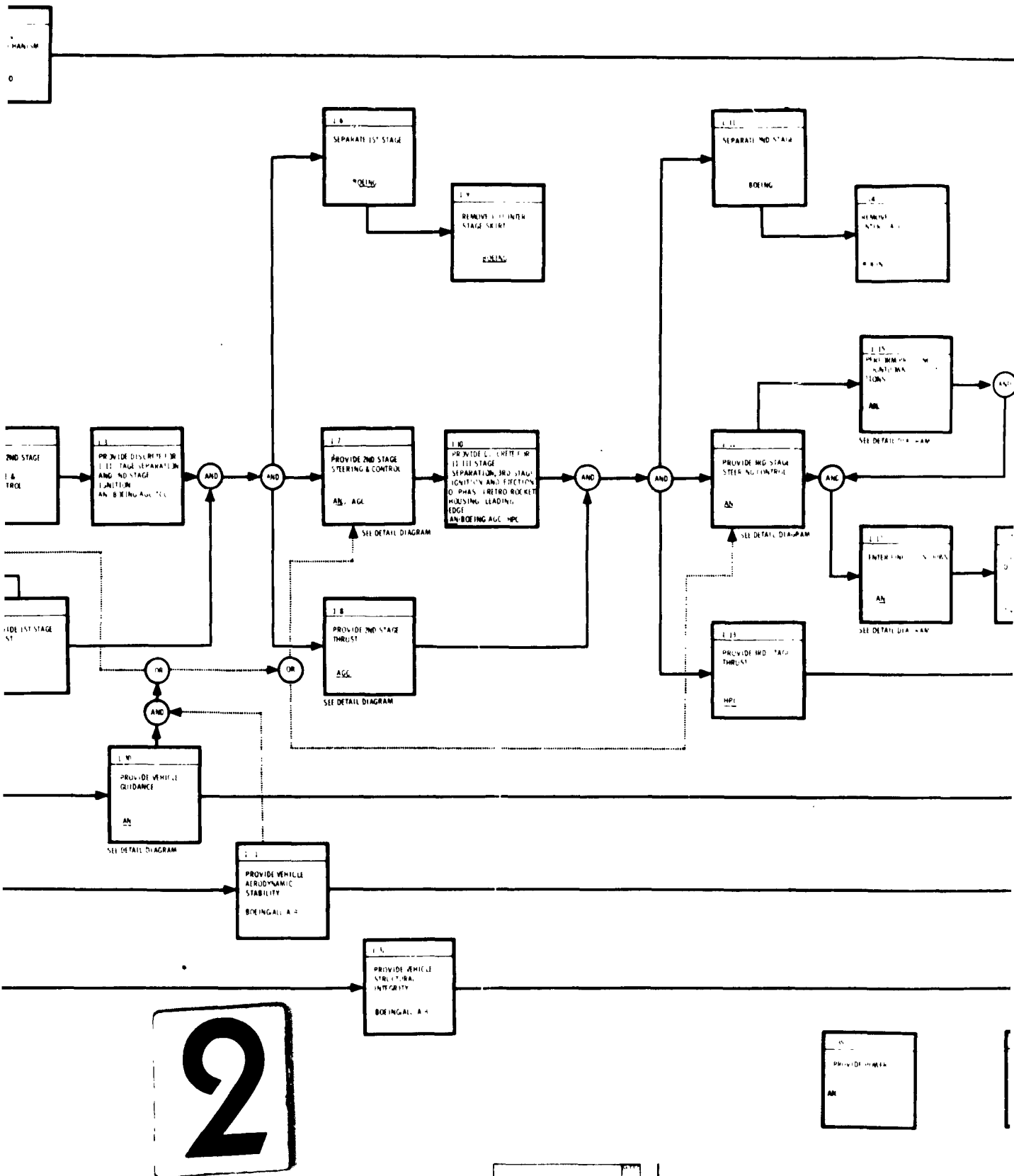
All Volumes in the S-133-10 series are identified by a Boeing document number. The base portion of this number is D2-30044-. To obtain a given volume, add the volume number to the base number. (e.g. Volume 3A is Document No. D2-30044-3A).

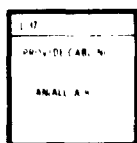
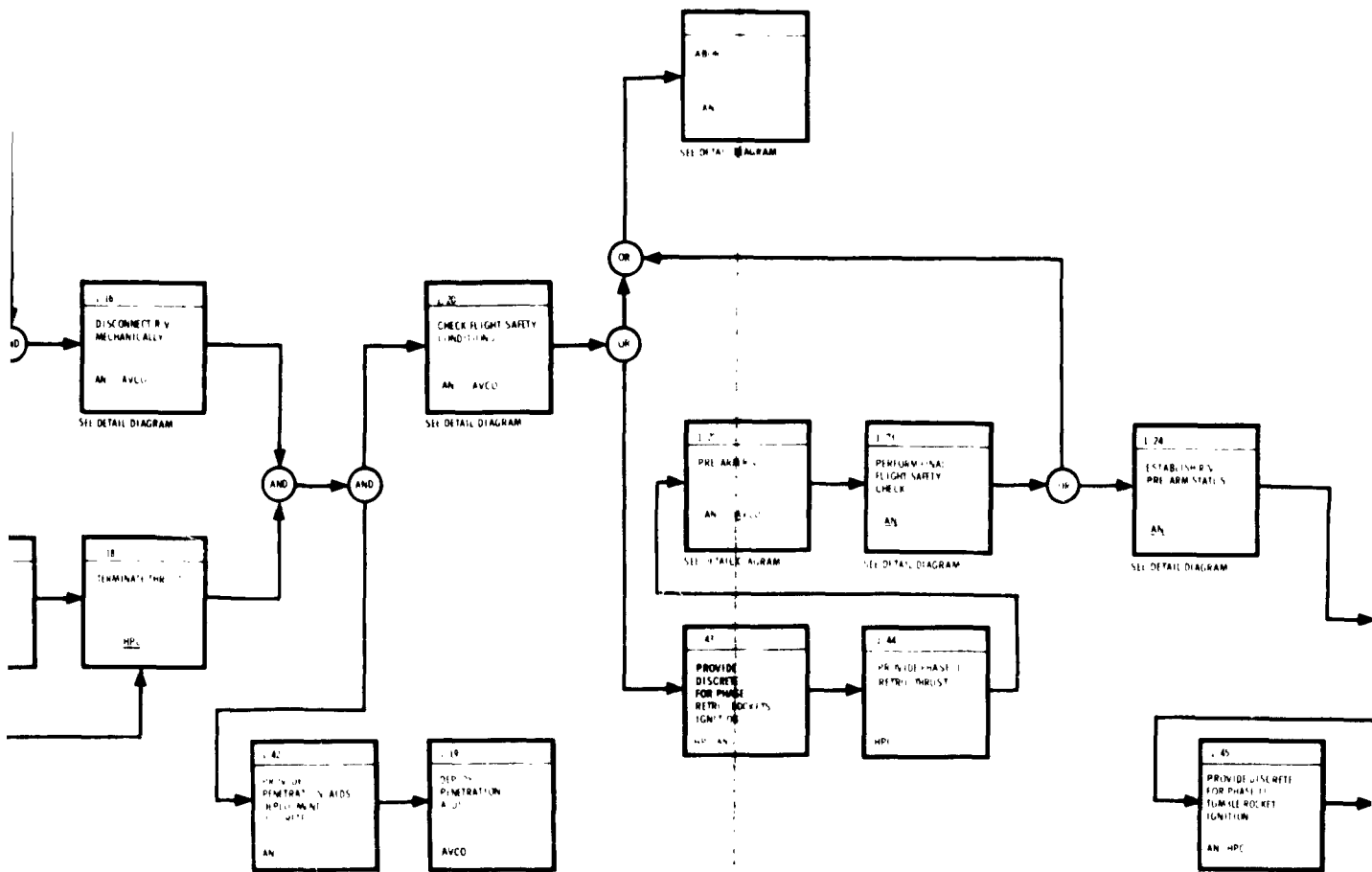
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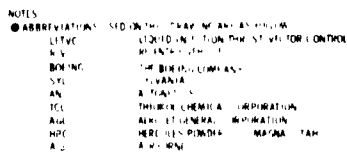
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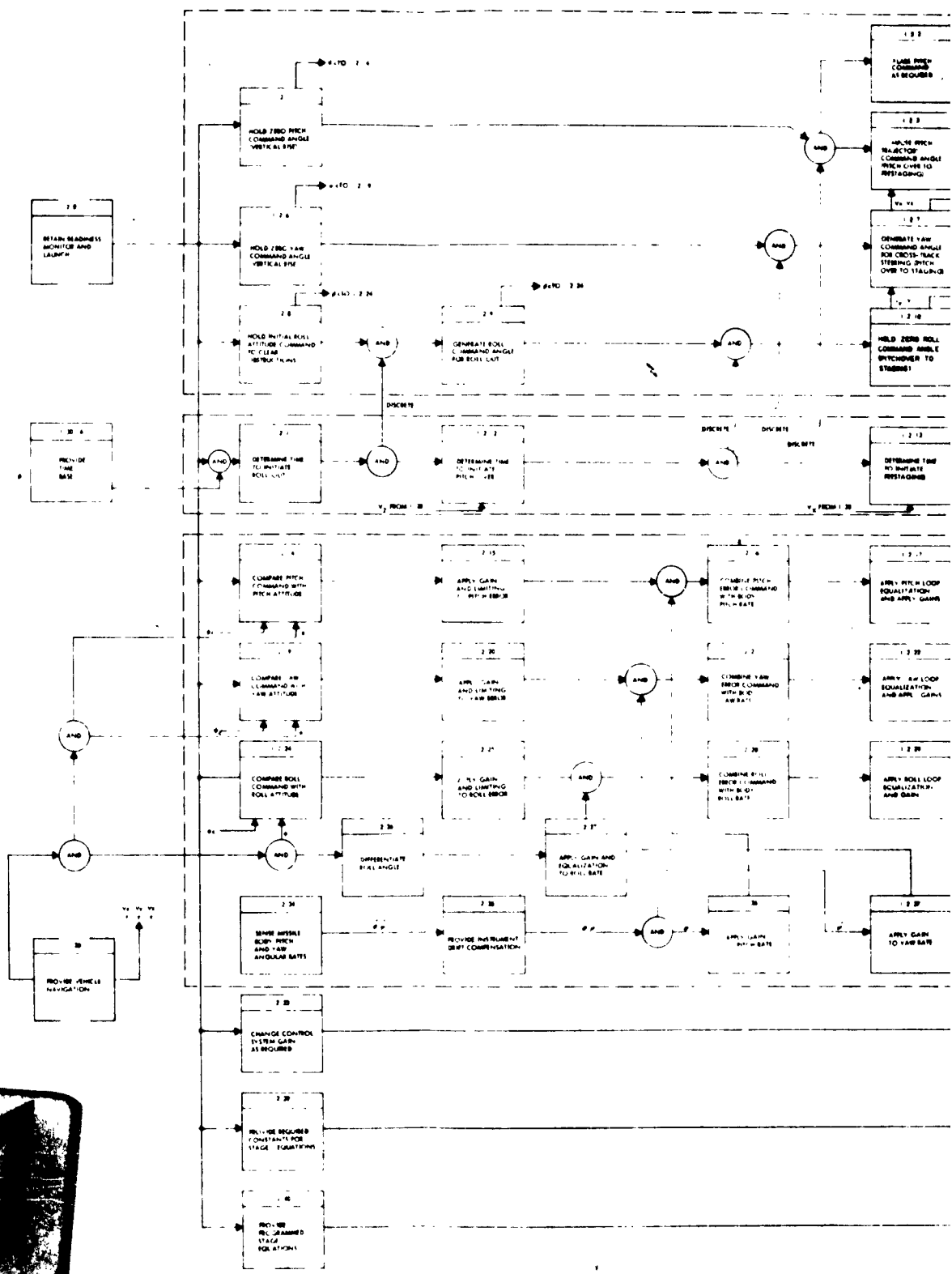
THIS FLOW DRAWING HAS DEFINED THE LOGIC AND
FUNCTIONS REQUIRED TO PERFORM THE LIGHTING LOAD

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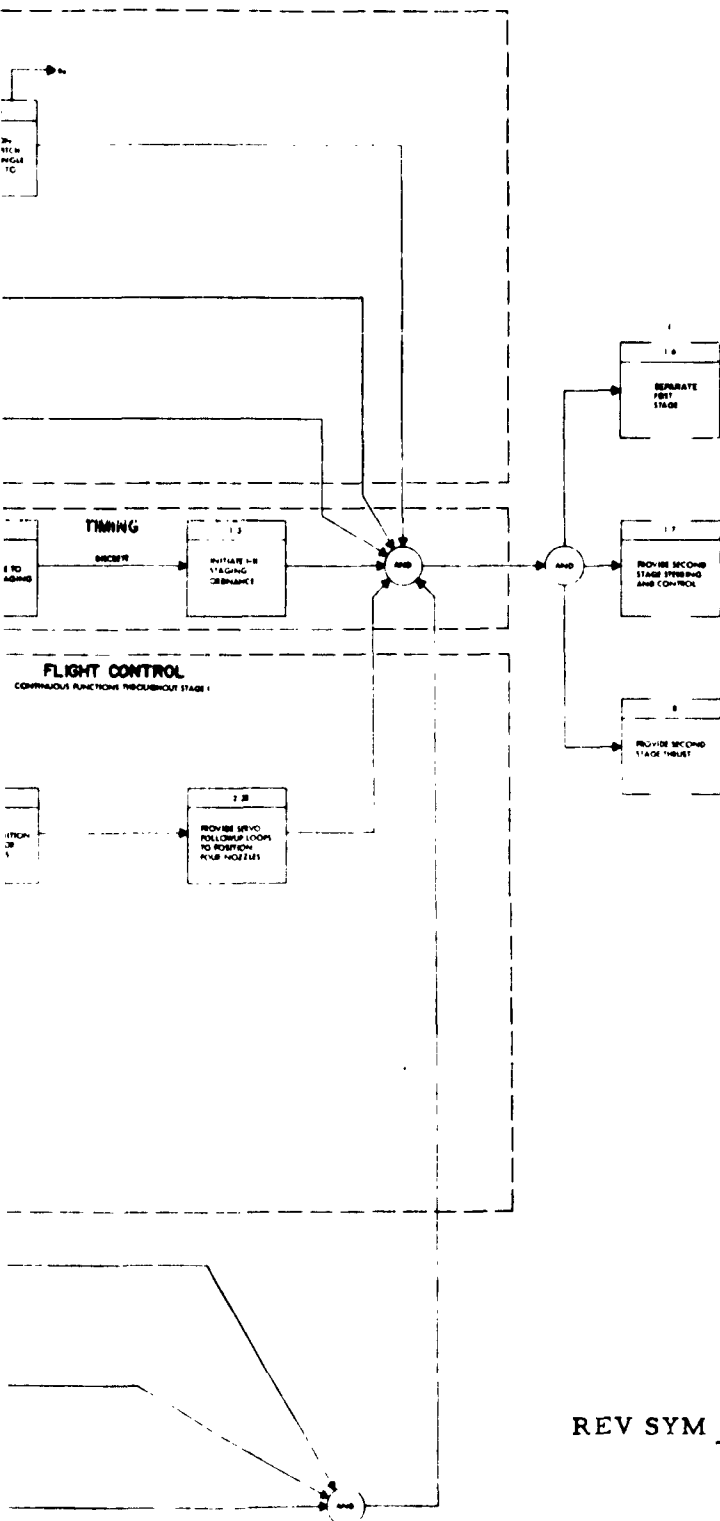
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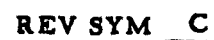
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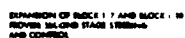
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REVISE FIRST STAGE SPEEDING & CONTROL
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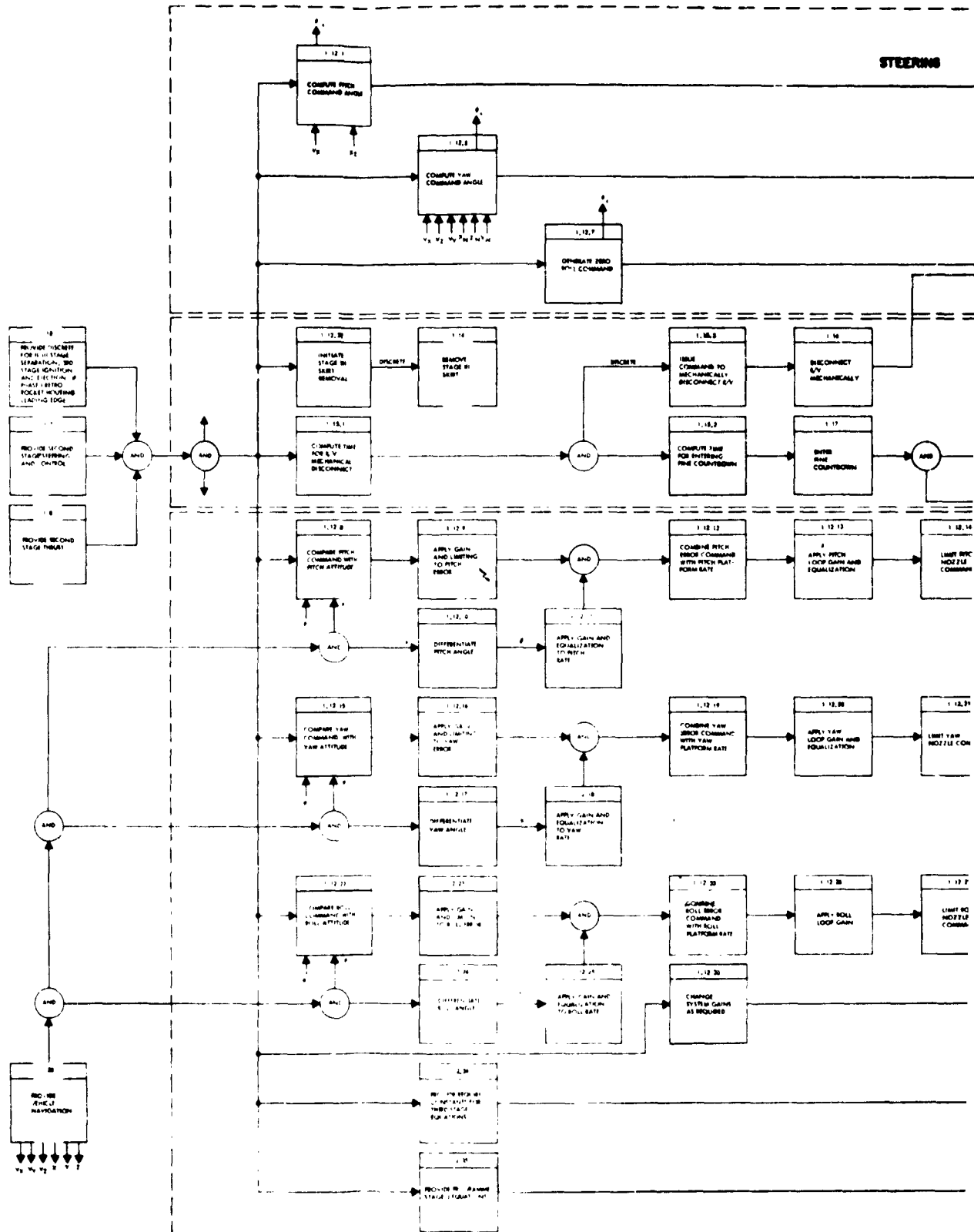


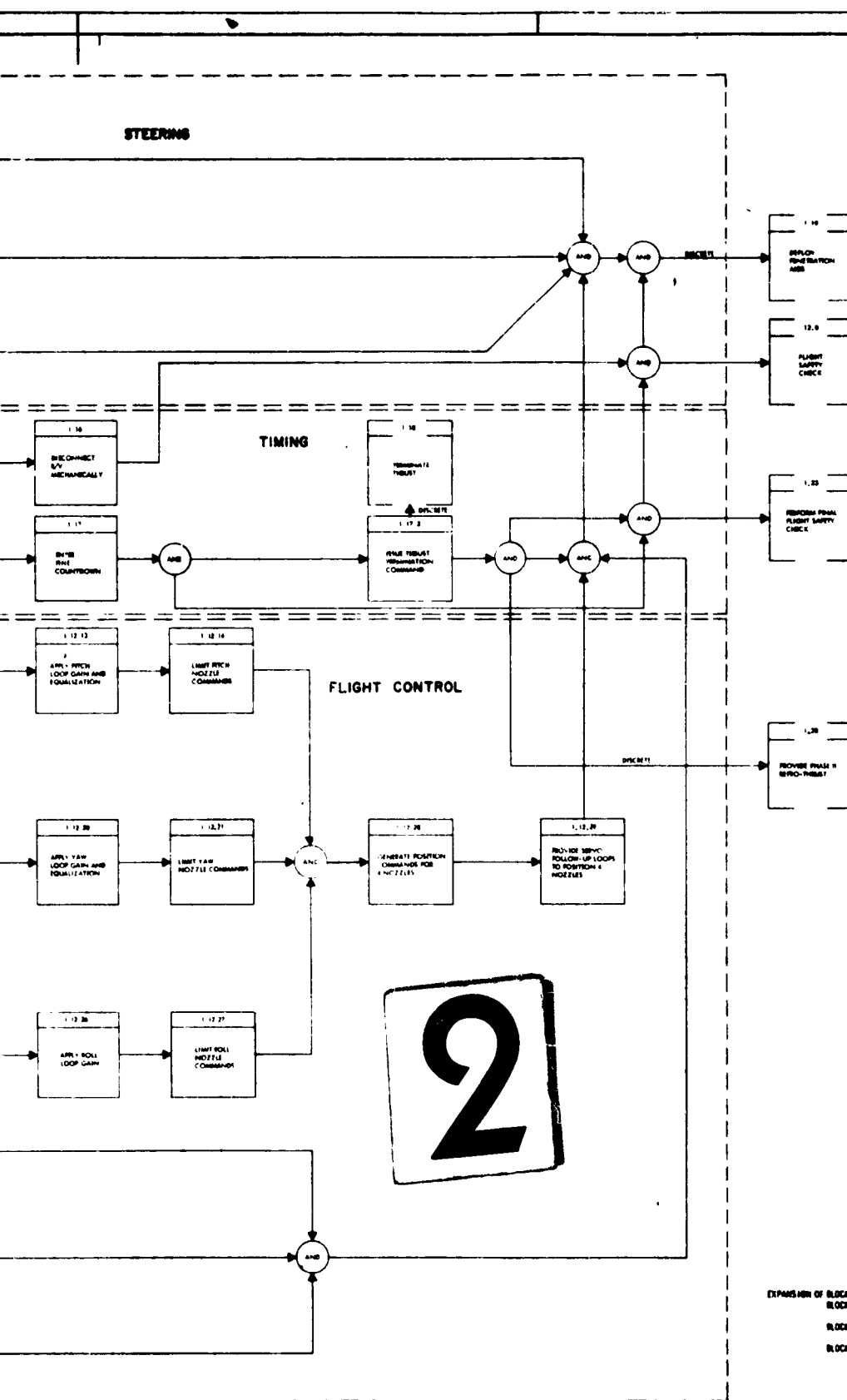
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SEC IV PAGE 3

STEERING

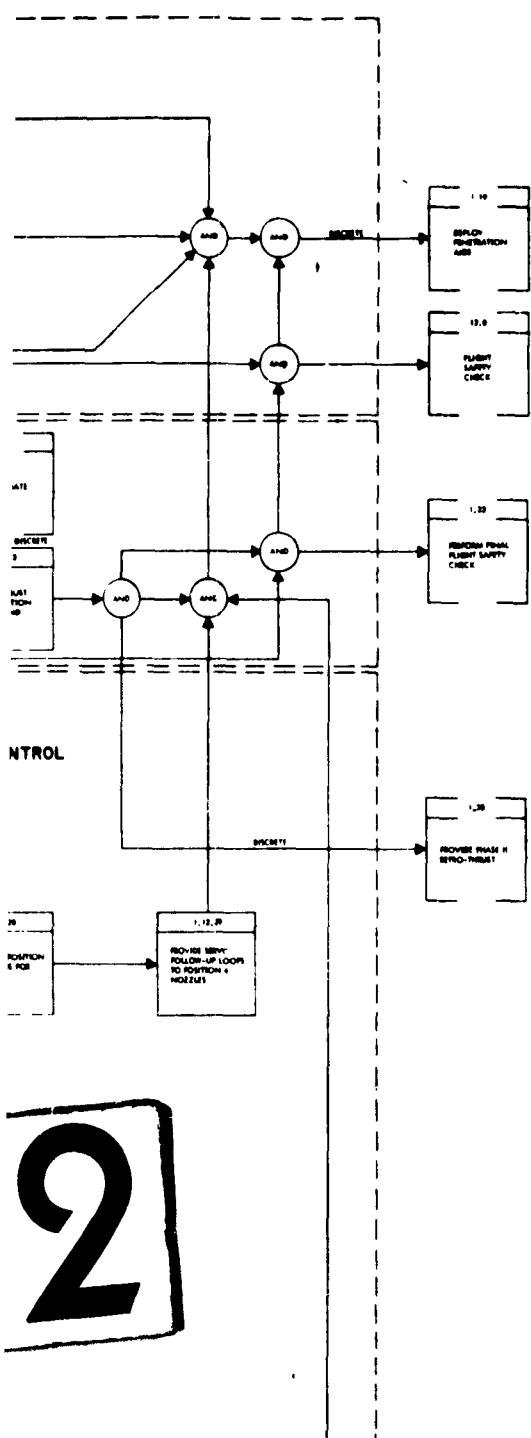




EXPANSION OF BLOCK 1.12 STAGE 3 STEERING & CONTROL
 BLOCK 1.15 INITIAL PRE-FINE COUNTDOWN
 CALCULATIONS
 BLOCK 1.16 DISCONNECT RAY
 MECHANICALLY
 BLOCK 1.17 SWIRL COUNTDOWN

REV SYM C

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2

EXPANSION OF BLOCK 1.12 STAGE 1 STEERING & CONTROL
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 CALCULATIONS
 BLOCK 1.16 DISCONNECT IN
 MECHANICALLY
 BLOCK 1.17 ENTER FIRE COUNTDOWN

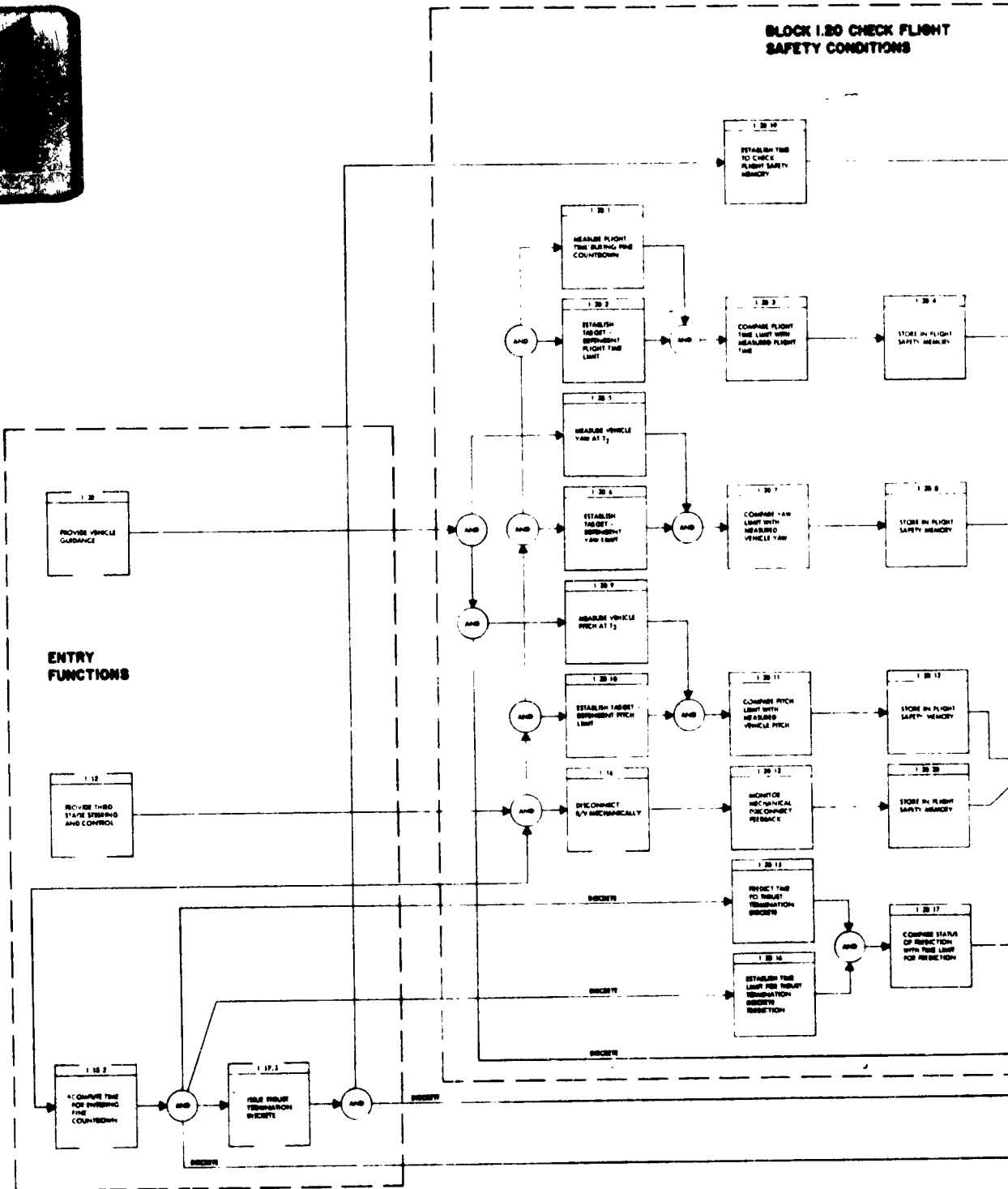
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 SEC. IV PAGE 4

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BLOCK 1.20 CHECK FLIGHT SAFETY CONDITIONS

ENTRY FUNCTIONS

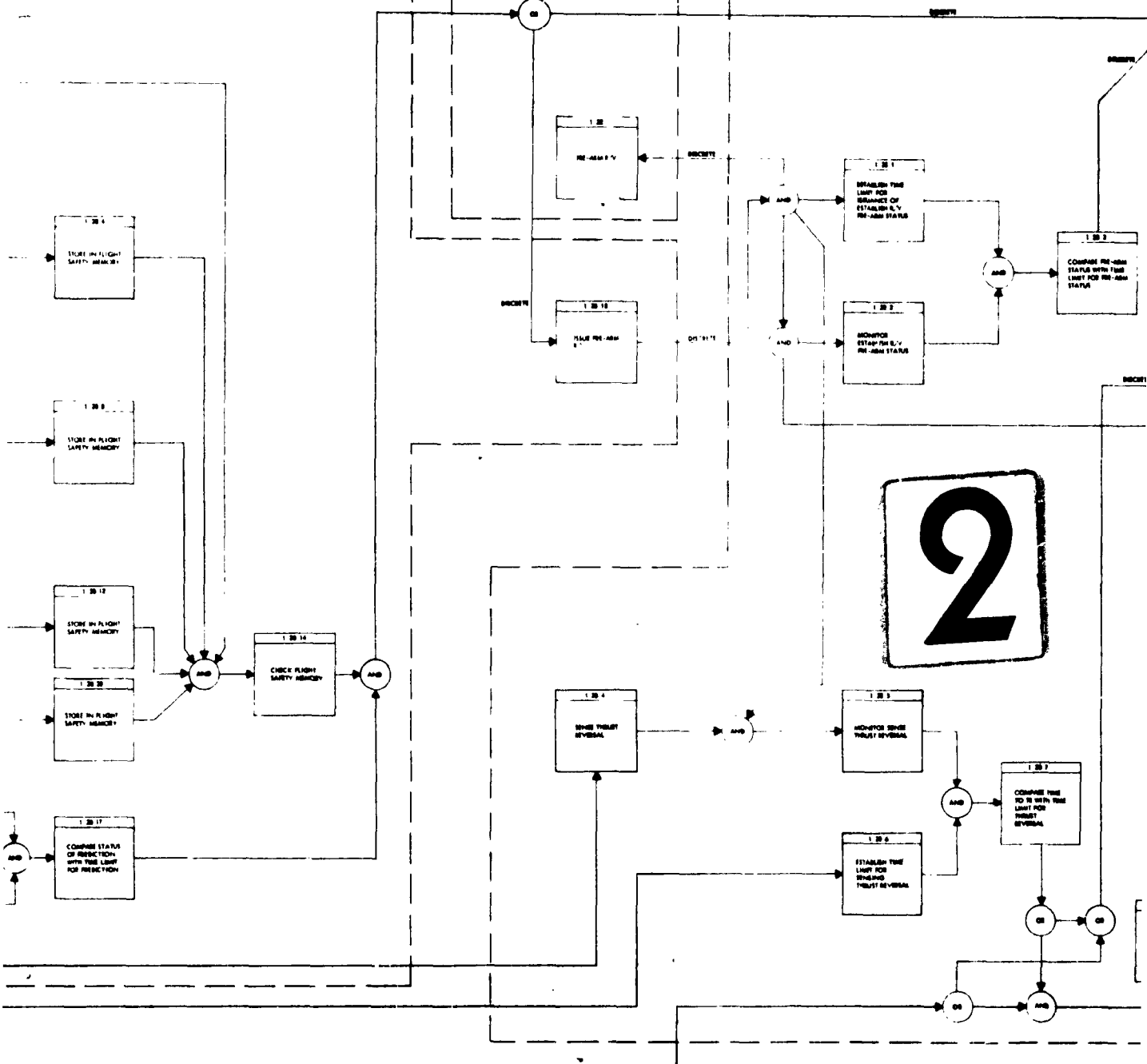


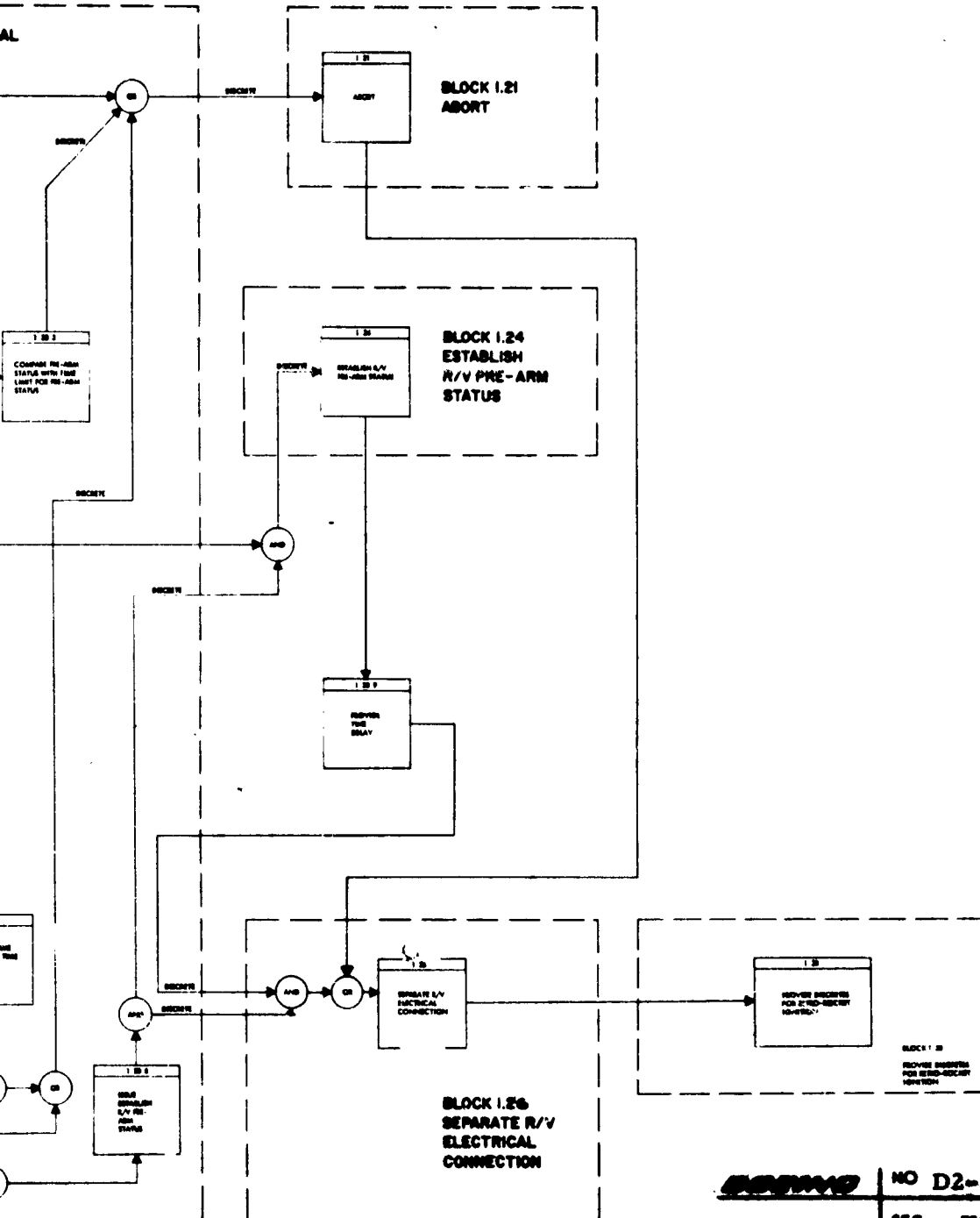
FLIGHT SAFETY AND PRE-ARM R/V SEQUENCE

1 CHECK FLIGHT CONDITIONS

BLOCK 1.22 PRE-ARM R/V

BLOCK 1.23 PERFORM FINAL FLIGHT SAFETY CHECK





1. BRANCH OF BLOCK 1-20 CHECK FLASH BATTERY CONNECTION
BLOCK 1-21 ABORT

BLOCK 1-20 RECOVER FROM FLASH BATTERY CHECK
BLOCK 1-21 RECOVER FROM FLASH BATTERY CHECK

BLOCK 1-20 RECOVER MESSAGE FOR RETRO-ROCKET MONITORING

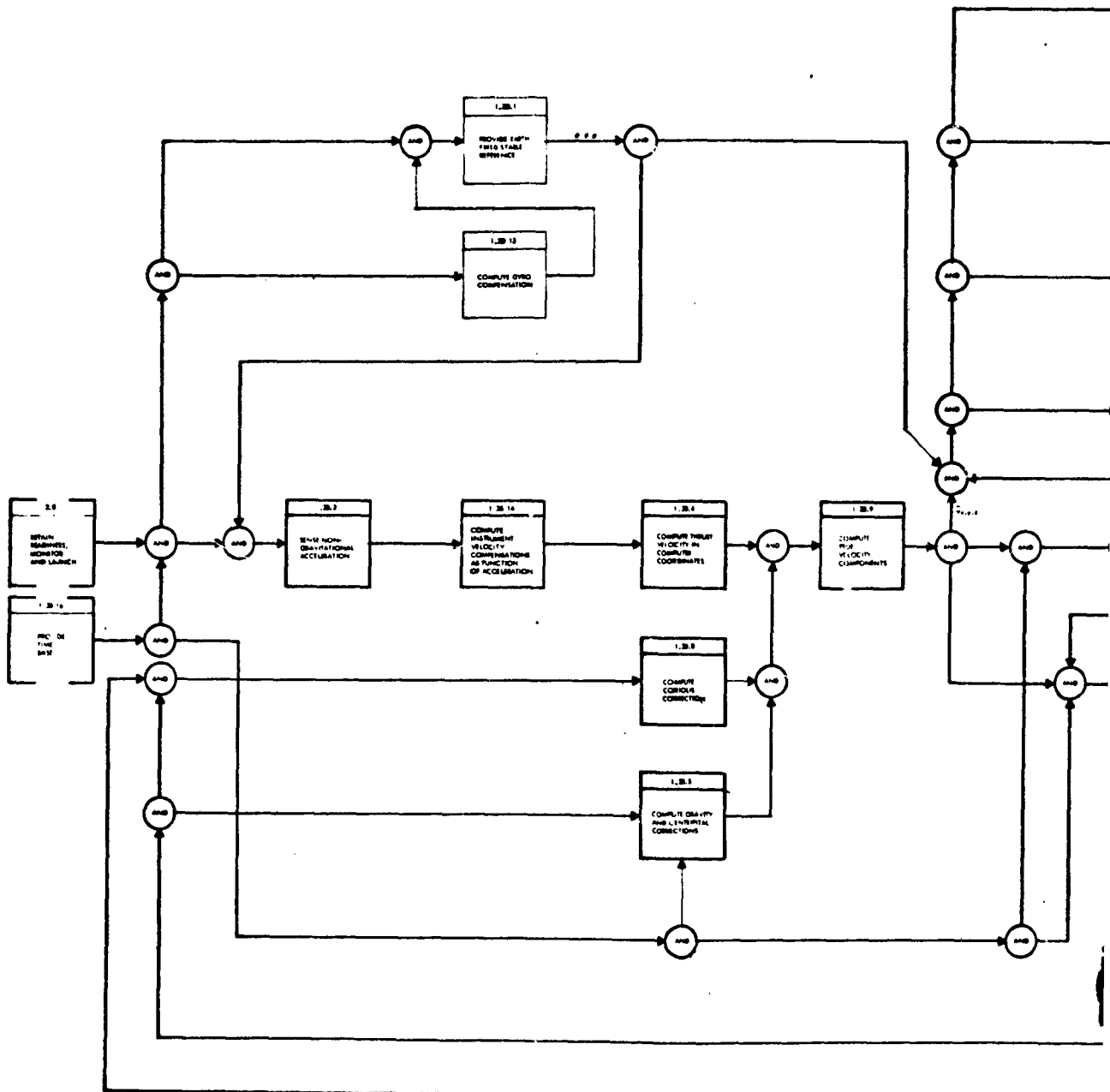
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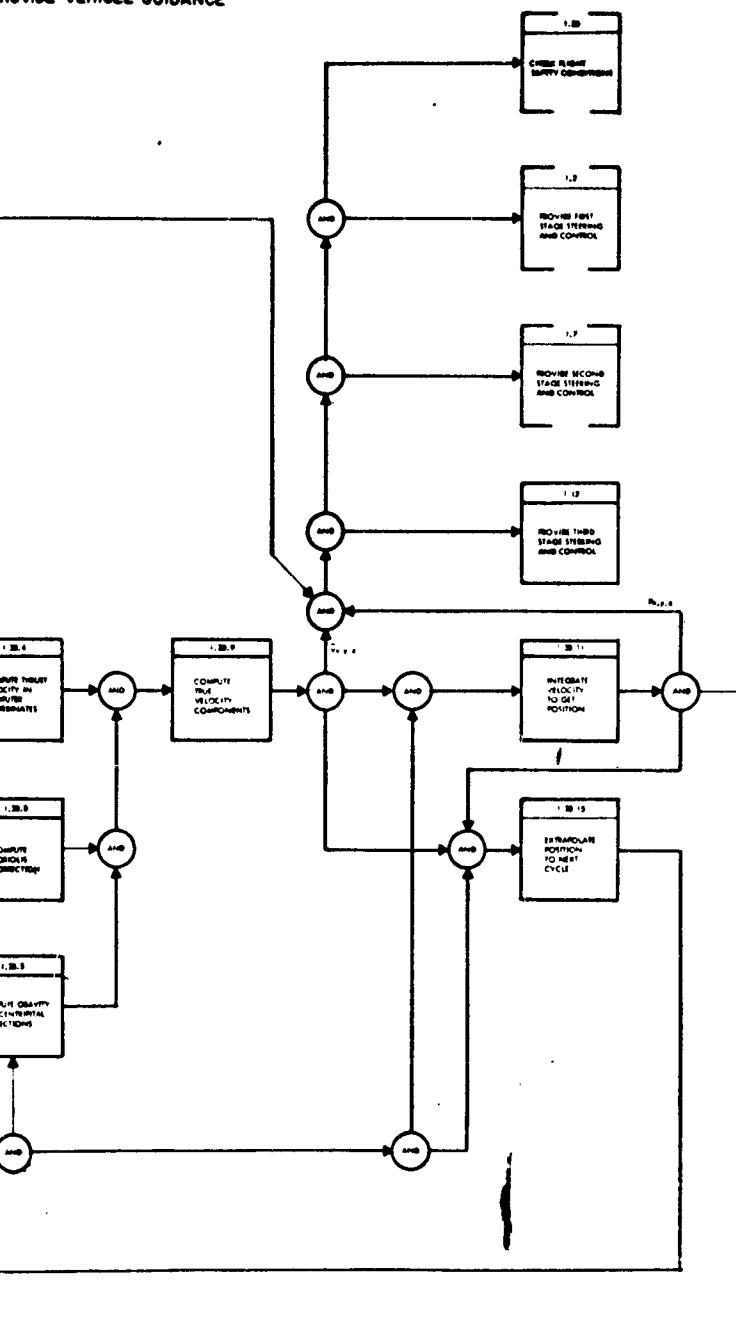
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BLOCK 1.30 PROVIDE VEHICLE GUIDANCE



PROVIDE VEHICLE GUIDANCE

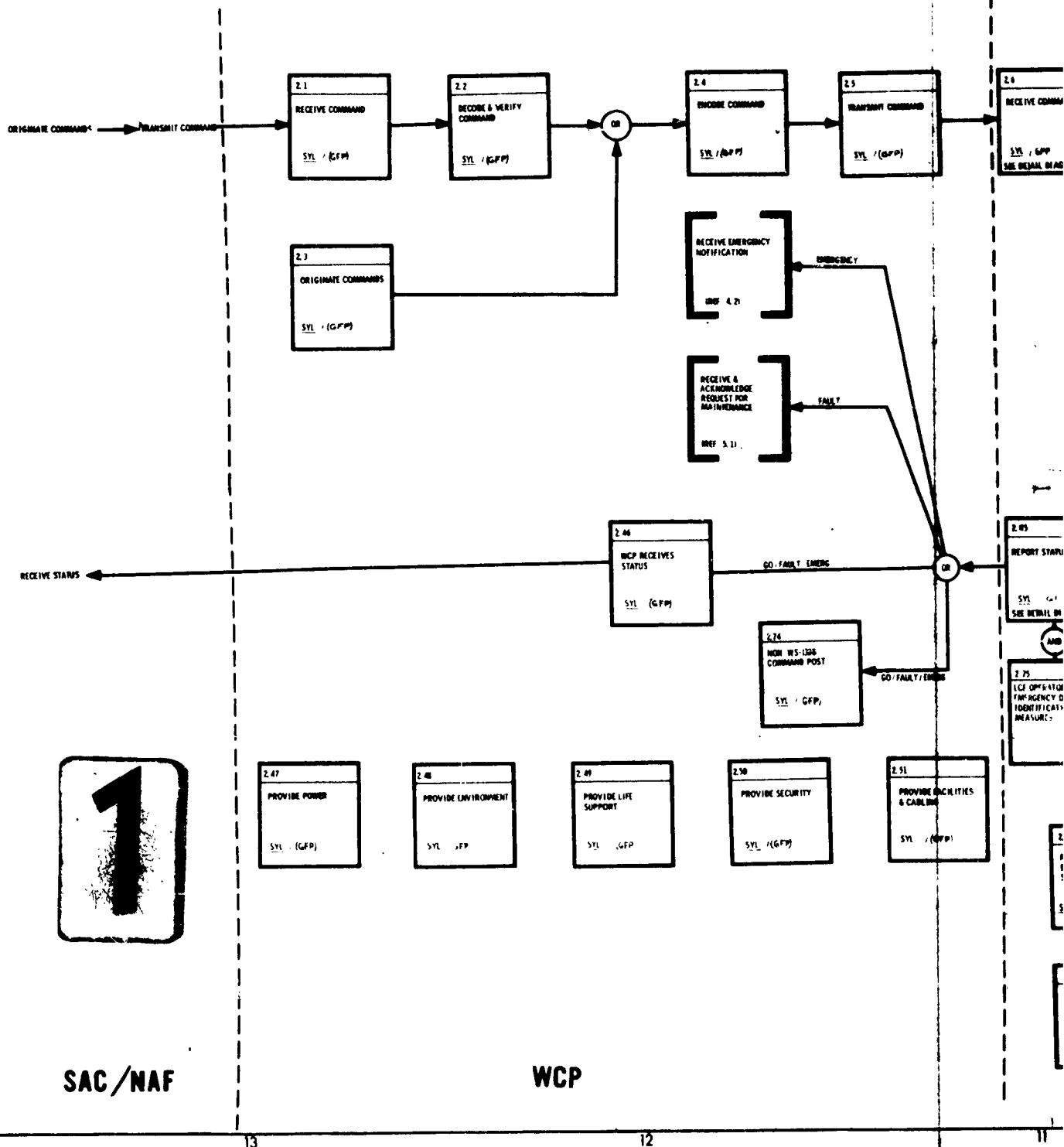
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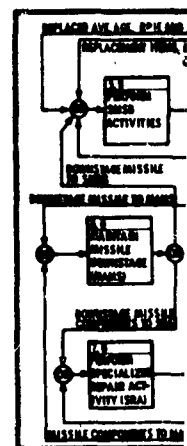
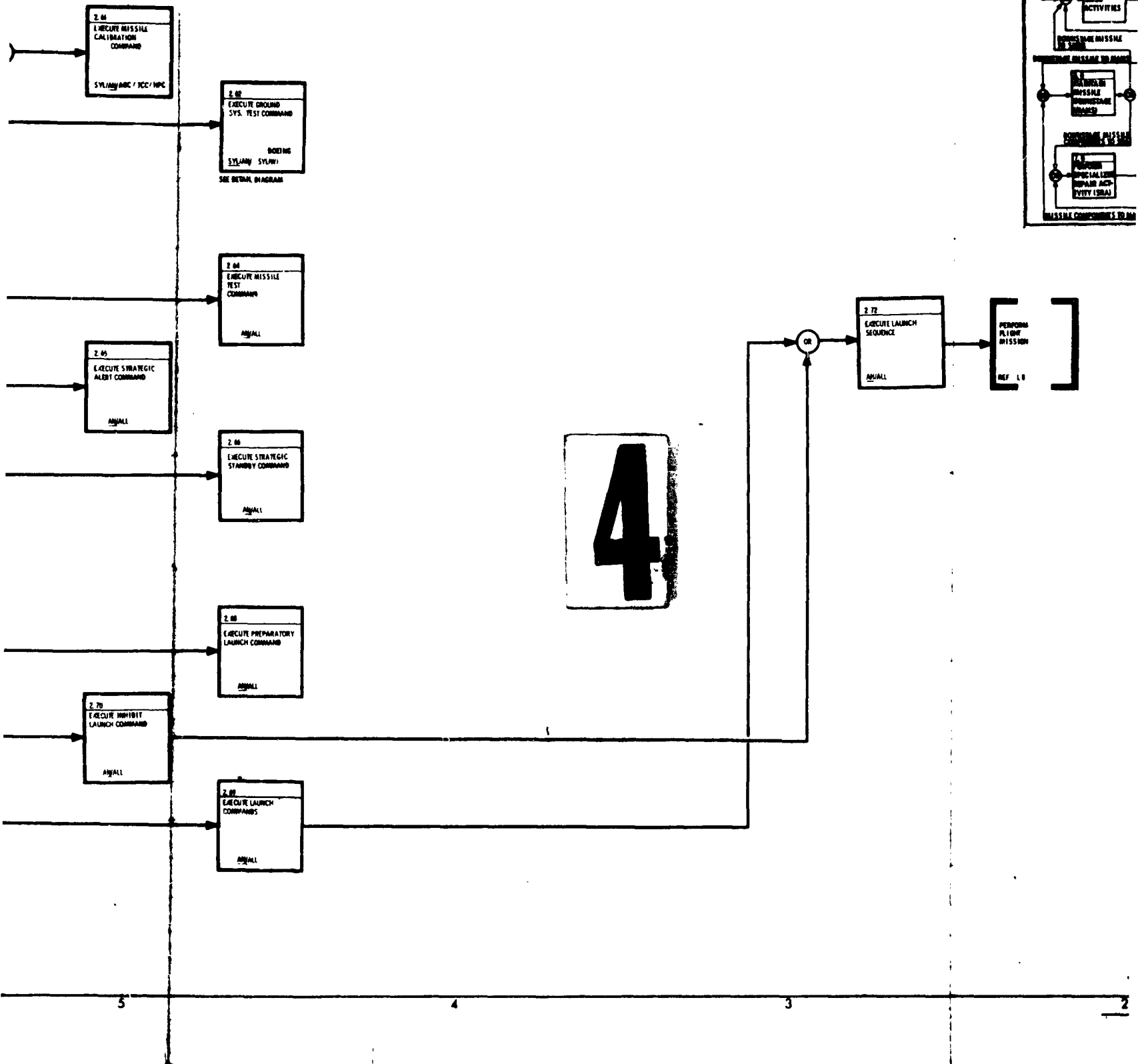
BOEING	NO D2-30044-1B
SEC. IV	PAGE

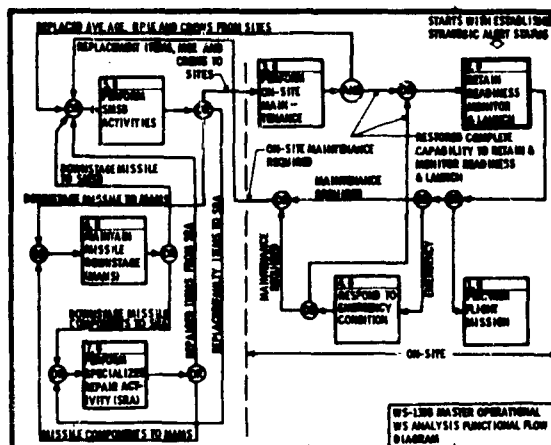
REV SYM C

BORING	DRAWING PREPARED BY	MINUTEMAN WING II
VISIT		FLOOR PLAN
		PROVIDED BY THE COMMANDER PAGE 1 OF 1
		SHEET OF FLOOR PLAN

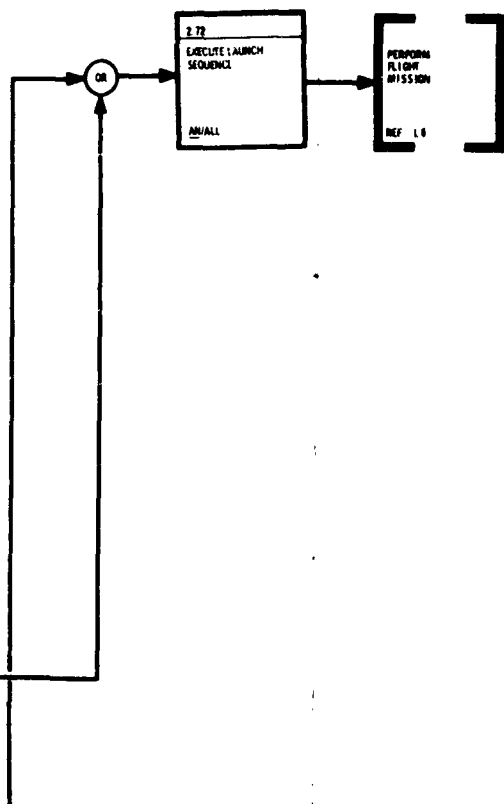
THE SYSTEM IS IN STRATEGIC ALERT
THIS FLIGHT BRANDING DEPICTS THE
1ST LEVEL FUNCTIONS WHICH MUST BE ACCOMPLISHED
TO CONTINUOUSLY MONITOR FOR THE OPERATIONAL STATUS AND
SECURITY OF THE WEAPON SYSTEM, TO MONITOR FOR FAULTS
AND TO LAUNCH THE MISSILE WHILE THE WEAPON SYSTEM
IS MAINTAINED IN A TACTICAL STATUS.







5



NOTES:

• ABBREVIATIONS USED THIS DRAWING ARE AS FOLLOWS:

BOEING THE BOEING COMPANY
SYL SYLVANIA
SYL SYLVANIA (WEST)
AN AUTONETICS
I-PROPUL PROPULSION
YCC THORON, CHEMICAL CORPORATION
AGC AIRJET GENERAL CORPORATION
GPP GOVERNMENT PRINTING OFFICE

• PRIME RESPONSIBILITY FOR COLLATION OF ANALYSIS DATA FOR A FUNCTION, IS UNDERTAKEN BY ASSOCIATE CONTRACTOR

THE WEAPON SYSTEM HAS BEEN MAINTAINED IN A STRATEGIC ALERT STATUS UNTIL EITHER THE RECEIPT OF AN APPROPRIATE SEQUENCE OF COMMANDS WHICH INITIATES A LAUNCH SEQUENCE OR AN ABNORMAL CONDITION OCCURS. IF THE LAUNCH SEQUENCE IS COMPLETED IT CONCLUDES IN "PERFORM FLIGHT MISSION." IF AN ABNORMAL CONDITION OCCURS, IT IS ABANDONED BY RESPONSE TO EITHER THE MALFUNCTION OR EMERGENCY CONDITION.

BOEING

NO D2-30044-1B

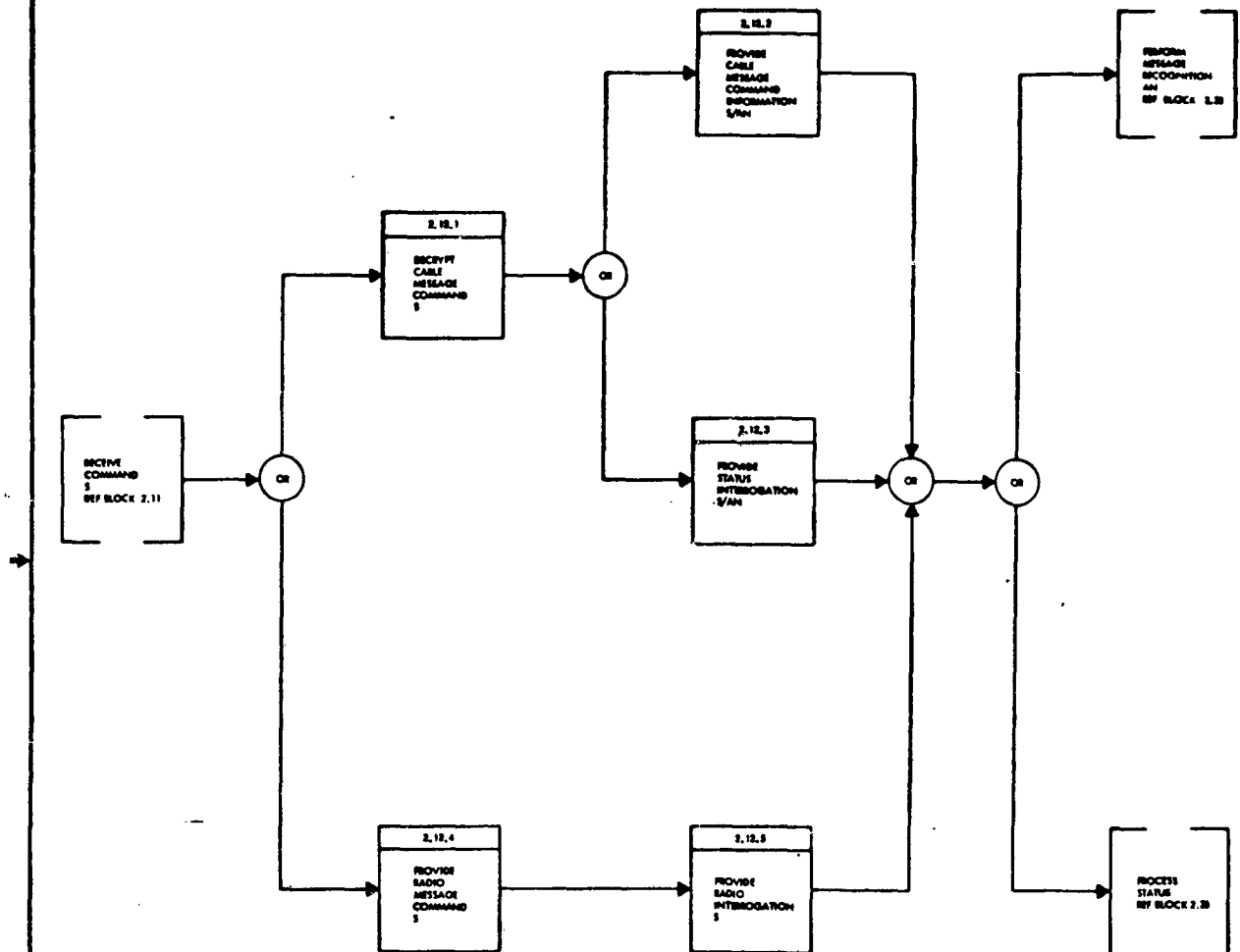
SEC. IV

PAGE 7

REV SYM C

BOEING	MAINTAINED BY:	SHOOTERMAN WING XI
SYL	BOEING	REMAIN READY
AN	AND-SPACE DIVISION	REMAIN READY
I-PROPUL		REMAIN READY
YCC		REMAIN READY
AGC		REMAIN READY
GPP		REMAIN READY

DETAIL SECOND LEVEL FLOW
(BLOCK 2.12 DECODE COMMAND)



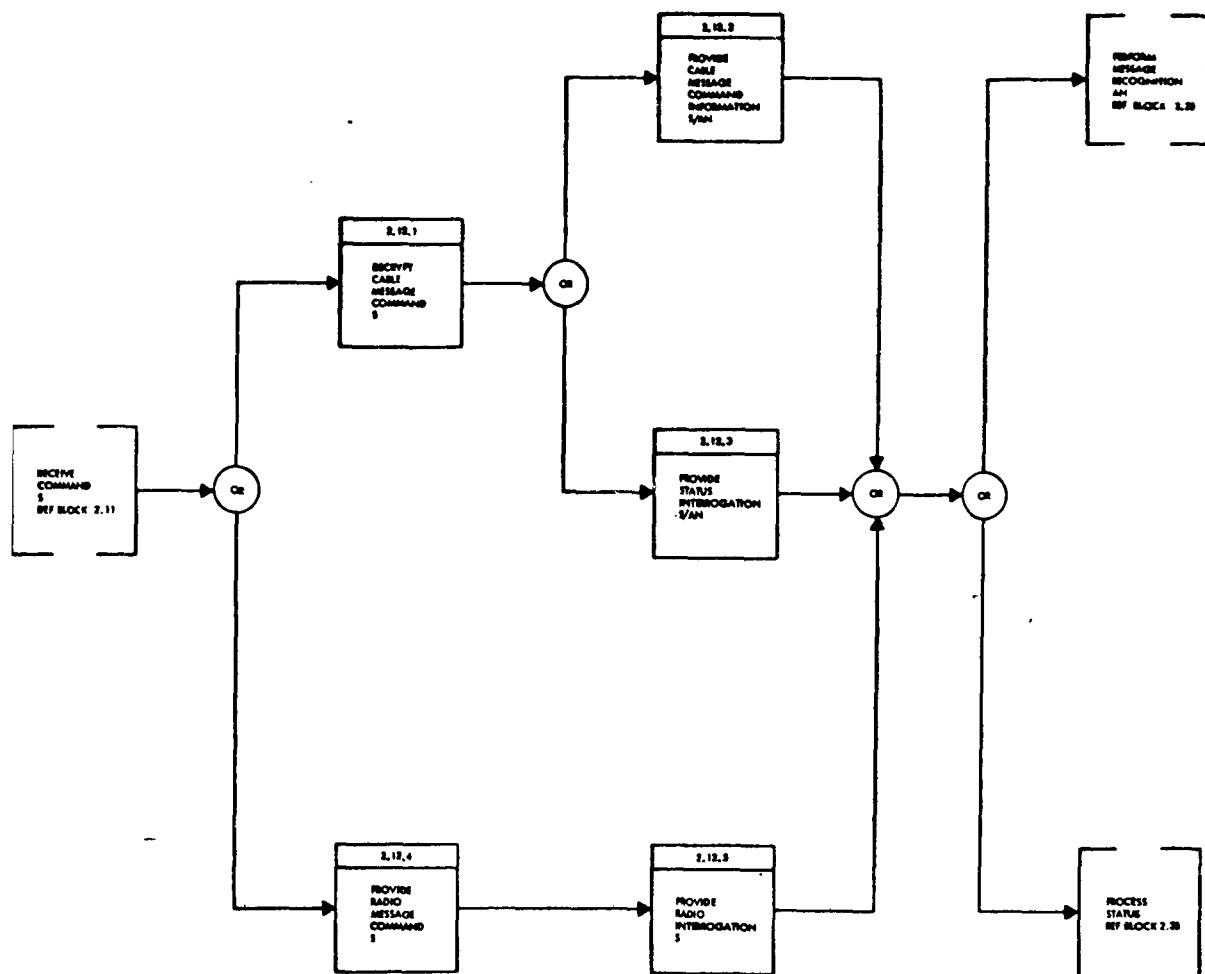
1

REV SYM C

BOEING NO
SEC

REVISION	DATE	DRAWING PM

DETAIL SECOND LEVEL FLOW
(BLOCK 2.12 DECODE COMMAND)



2

REV SYM C

BOEING

NO D2-30044-1B

SEC. IV

PAGE 8

BOEING	
REVISION	DATE

DRAWING PREPARED BY

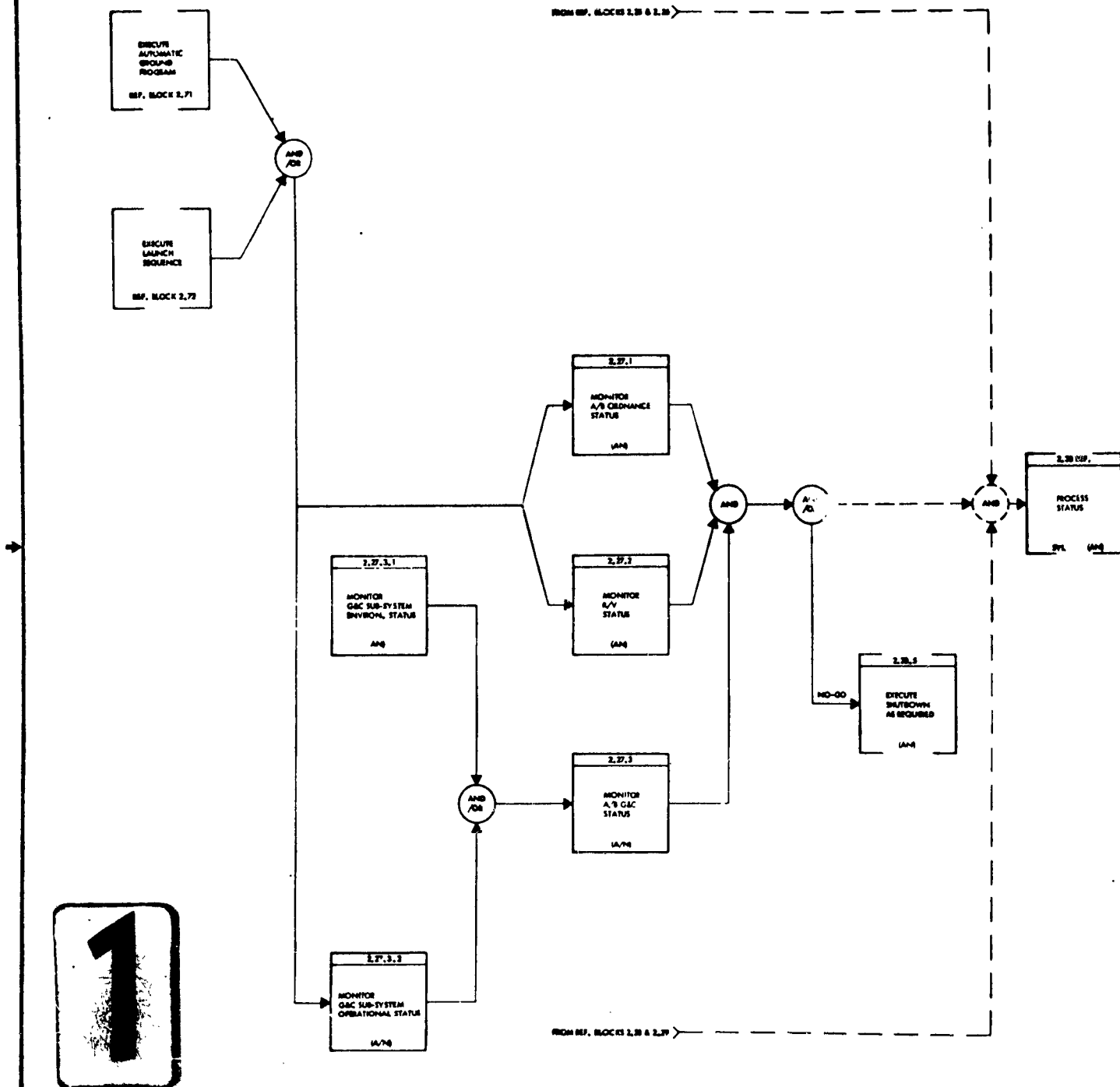


MINUTEMAN WING VI

FLOW NAME:
BLOCK 2.12
DECODE COMMAND

SHEET OF FLOW NO.

DETAIL SECOND-LEVEL FLOW (BLOCK 2.27 MONITOR AVE)



1

REV SYM C

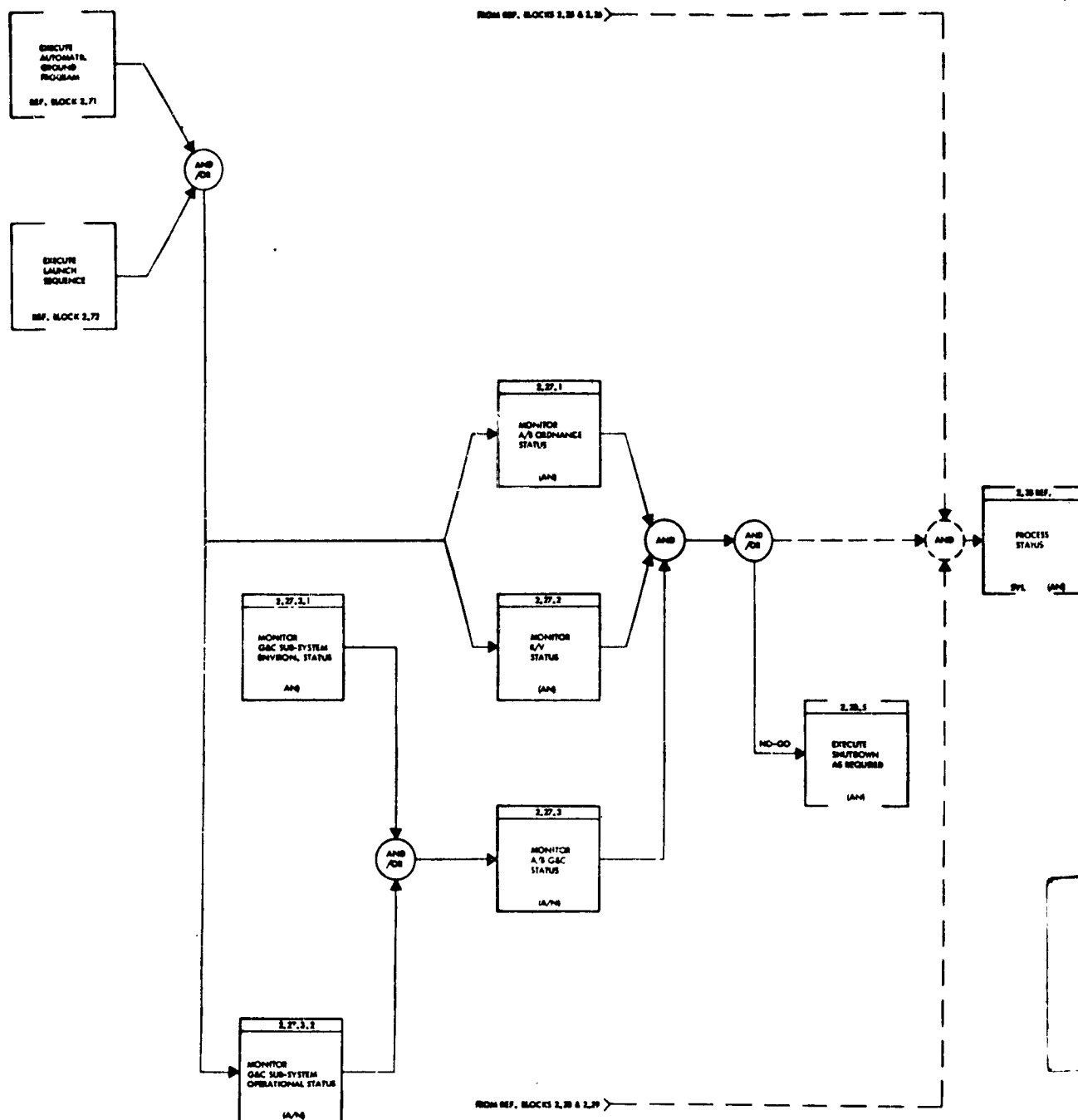
BOEING

NO D2-30044-1B

SEC. IV PAGE 9

BOEING		DRAWING PREPARED BY:	MF
REVISION	DATE		
			SM

DETAIL SECOND-LEVEL FLOW (BLOCK 2.27 MONITOR AVE)



2

REV SYM C

BOEING

NO D2-30044-1B

SEC. IV PAGE 9

BOEING

REVISION DATE

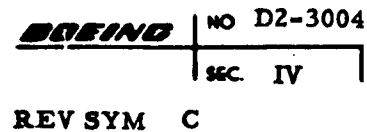
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MINUTEMAN WING VI



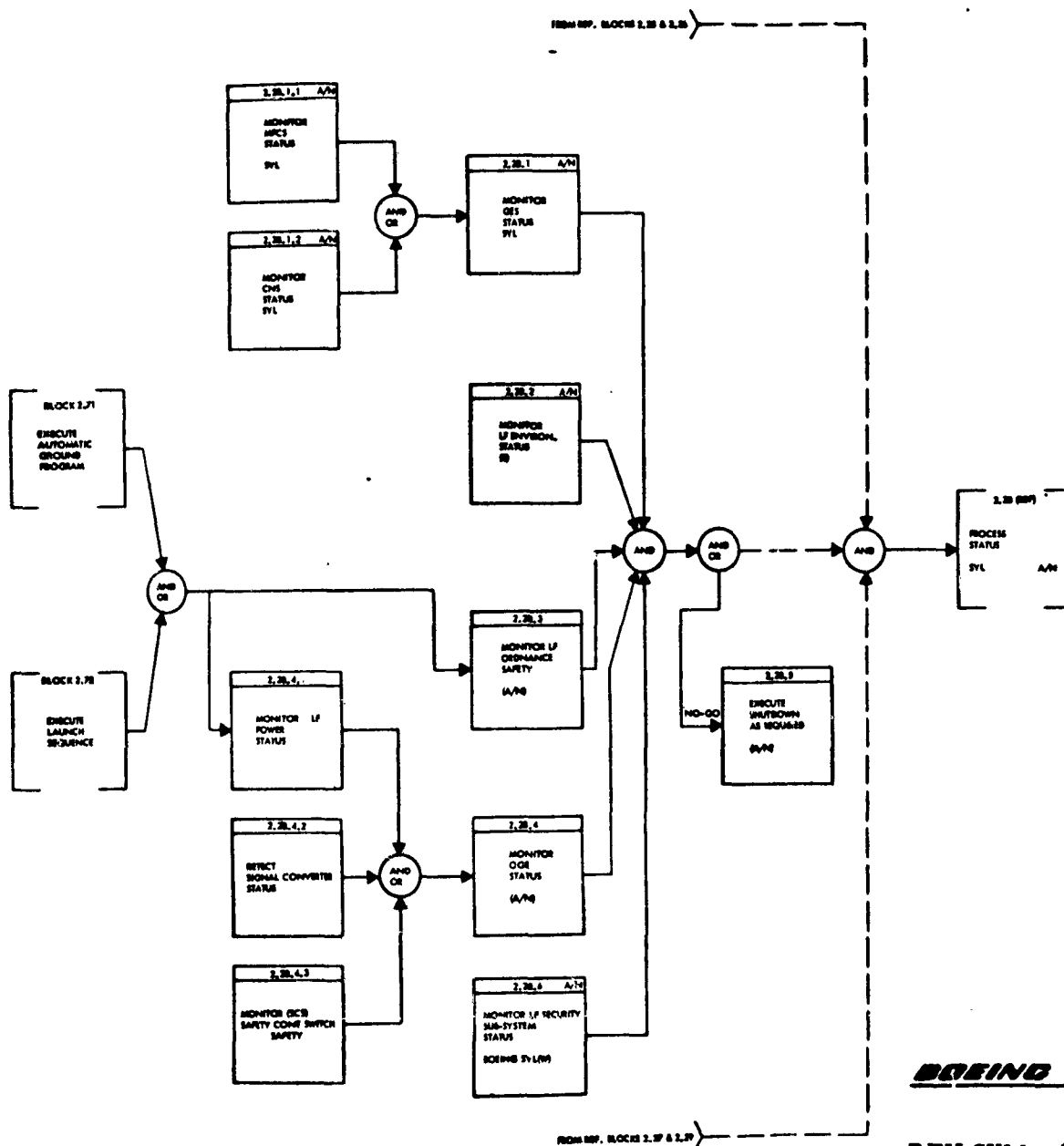
FLOW NAME:
Block 2.27
MONITOR AVE

SHEET OF FLOW NO.



BOEING		DRAWING PREPARED BY:	MINUT
REVISION	DATE		FLOW NAME
			INTAIL BLOCK WG-1234
			SHEET C

DETAIL SECOND-LEVEL FLOW (BLOCK 2.28-MONITOR OGE)

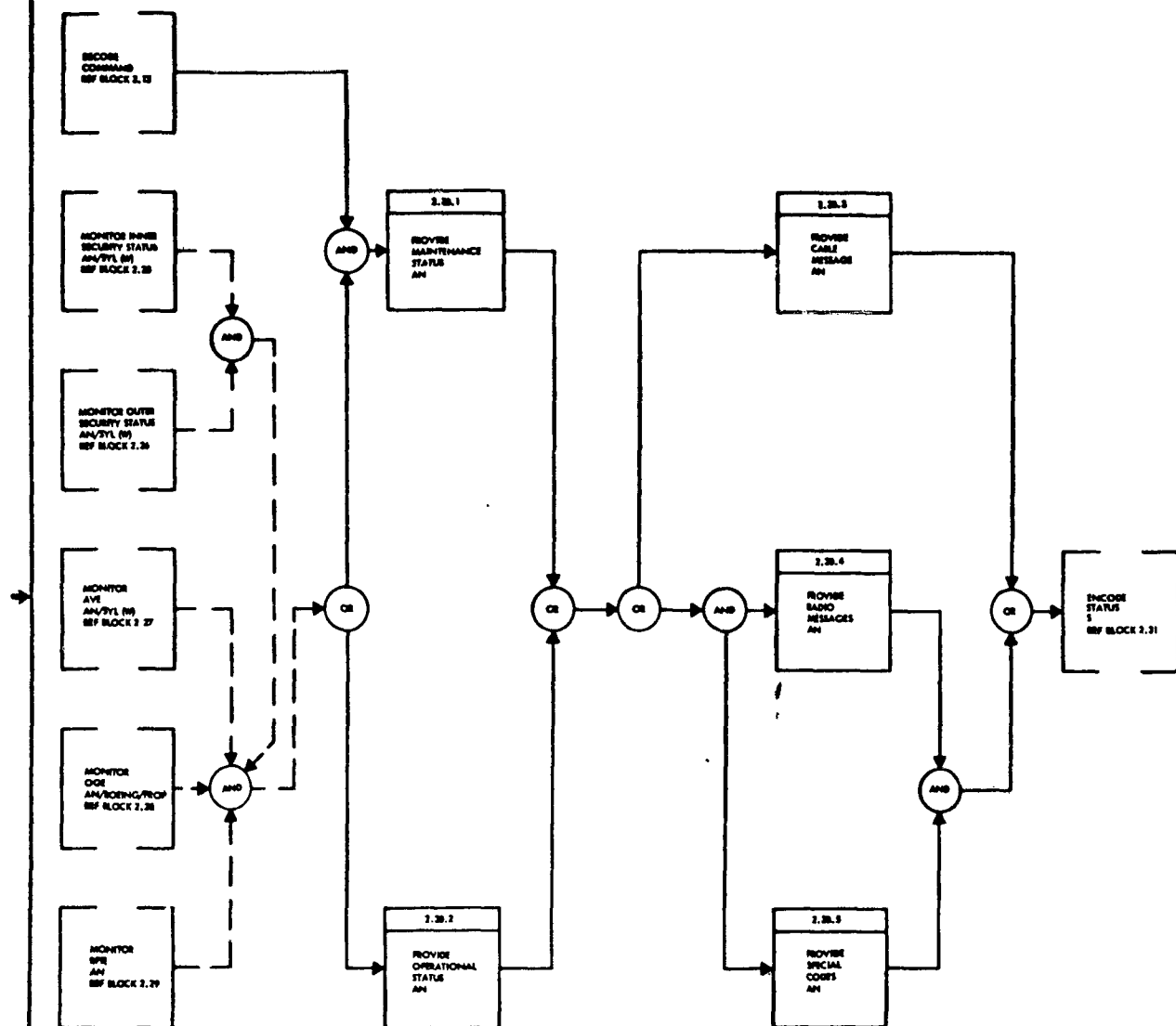


2

BOEING NO D2-30044-1B
SEC. IV PAGE 10
REV SYM C

BOEING		DRAWING PREPARED BY:	MINUTEMAN WING VI
REVISION	DATE		FLOW NAME:
			DETAIL SECOND - LEVEL FLOW
			BLOCK 2.28 - MONITOR OGE
			WT-1308
			SHEET OF FLOW NO.

DETAIL SECOND LEVEL FLOW
(BLOCK 2.30 PROCESS STATUS)



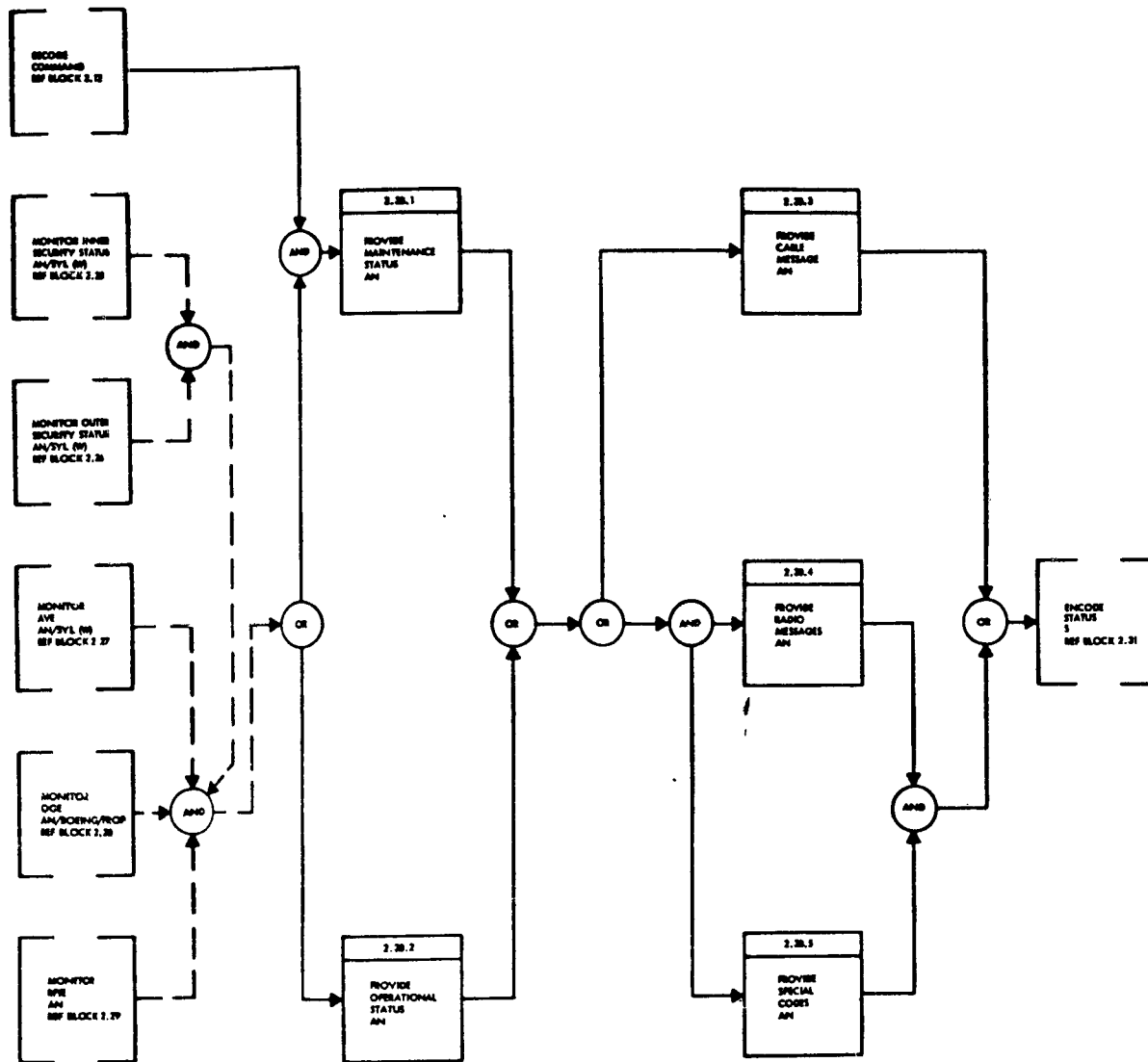
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REV SYM C **BOEING** NO I
SEC.

BOEING		DRAWING PREPARED BY
REVISOR	DATE	

A

DETAIL SECOND LEVEL FLOW
(BLOCK 2.30 PROCESS STATUS)



2

REV SYM C

BOEING

NO D2-30044-1B

SEC. IV

PAGE 11

BOEING	
REVISION	DATE

DRAWING PREPARED BY:

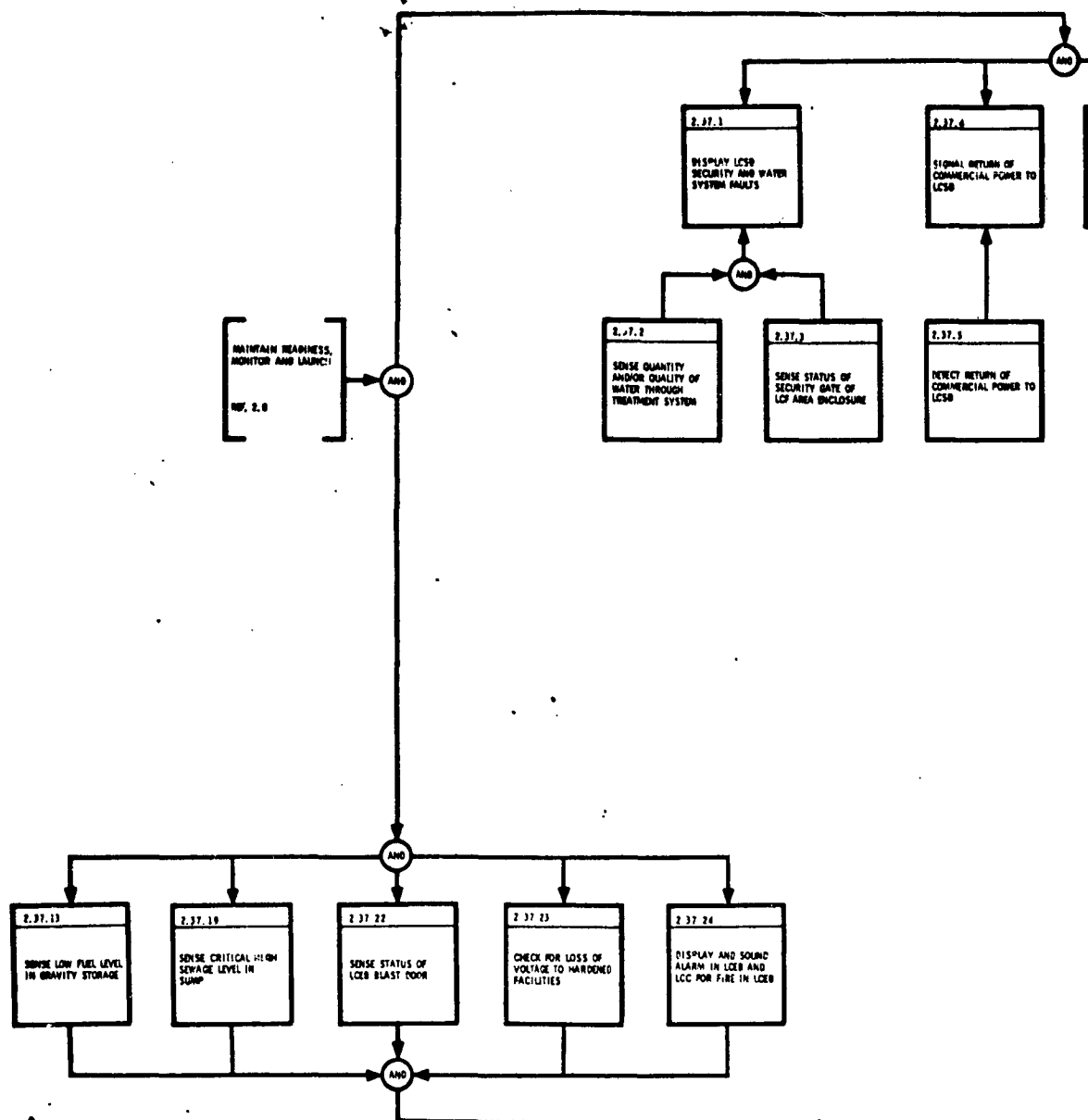


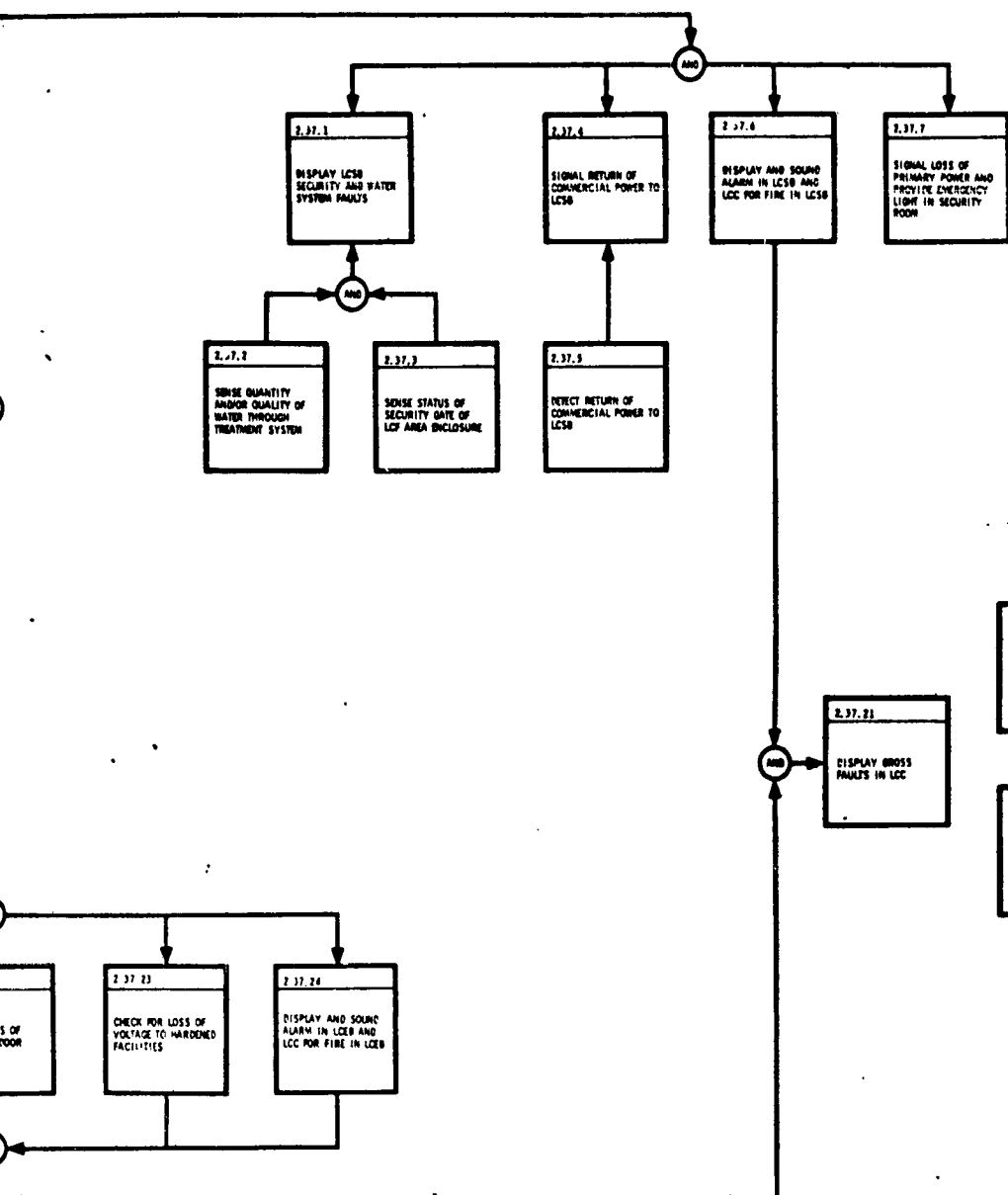
MINUTEMAN WING VI

FLOW NAME:
BLOCK 2.30
PROCESS STATUS

SHEET OF FLOW NO.

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PROVIDE POWER FOR
MONITORING SYSTEM
REF. 2.52.79

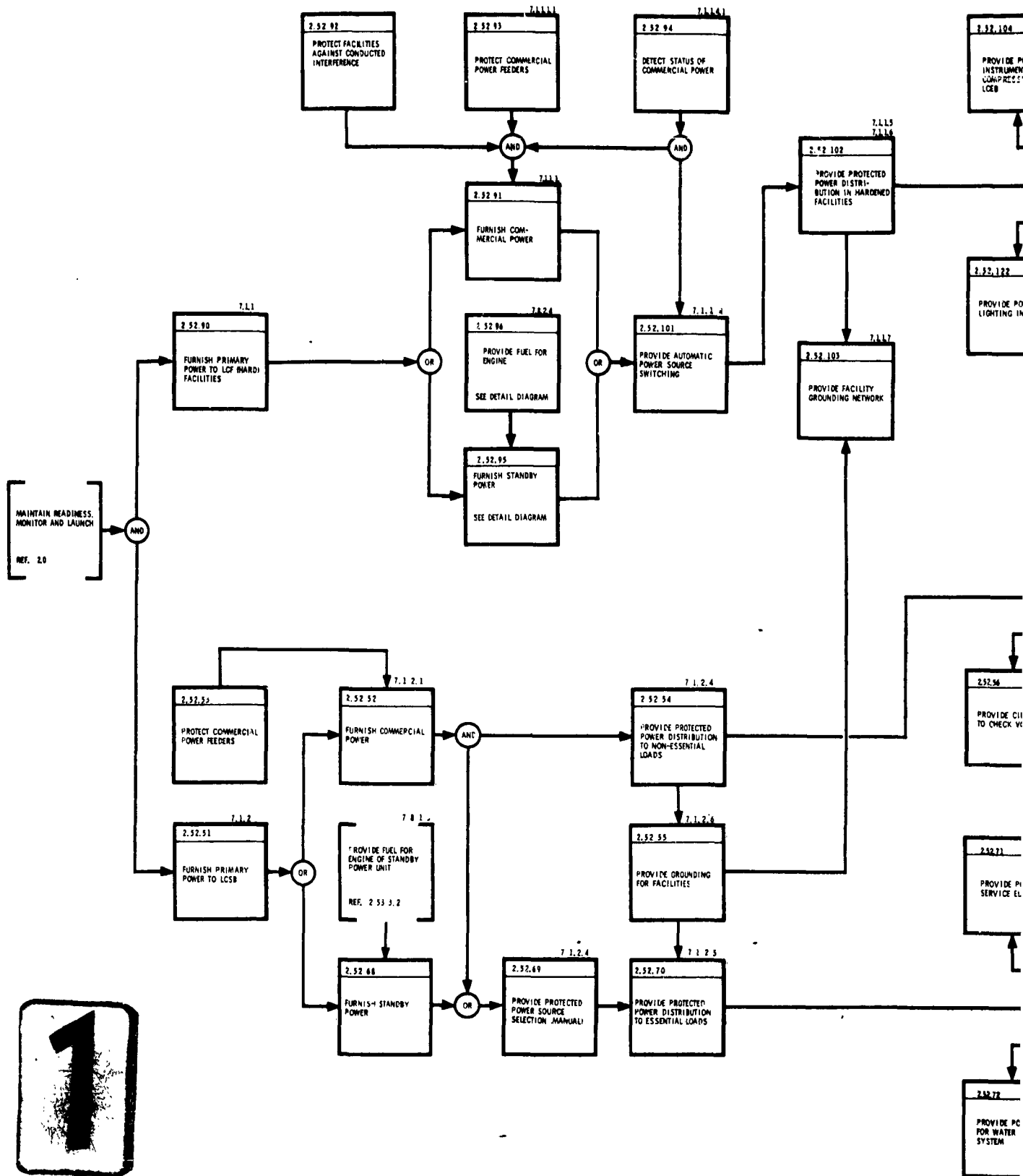
PROVIDE POWER FOR
MONITORING SYSTEM
IN LCC
REF. 2.52.116

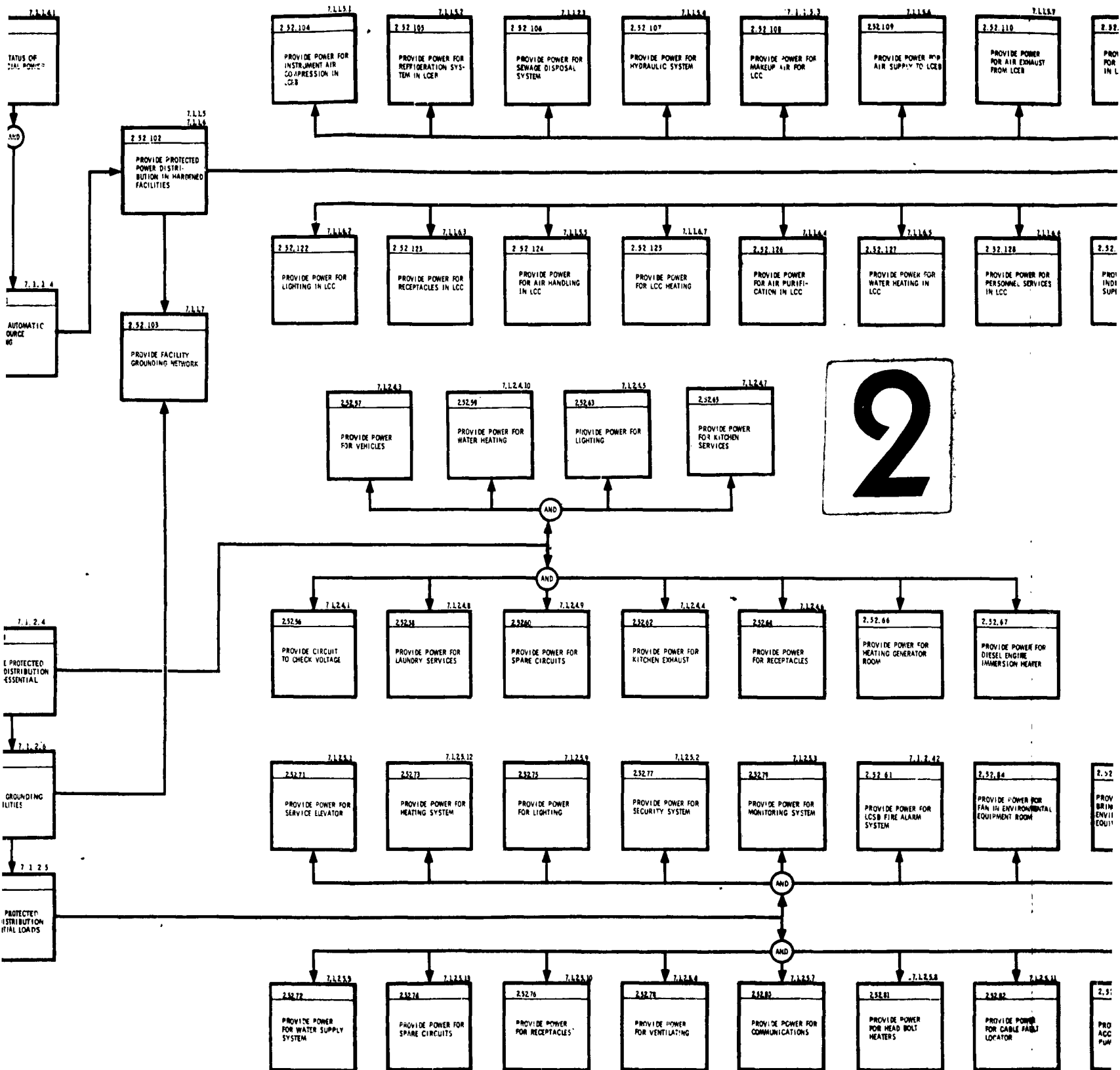
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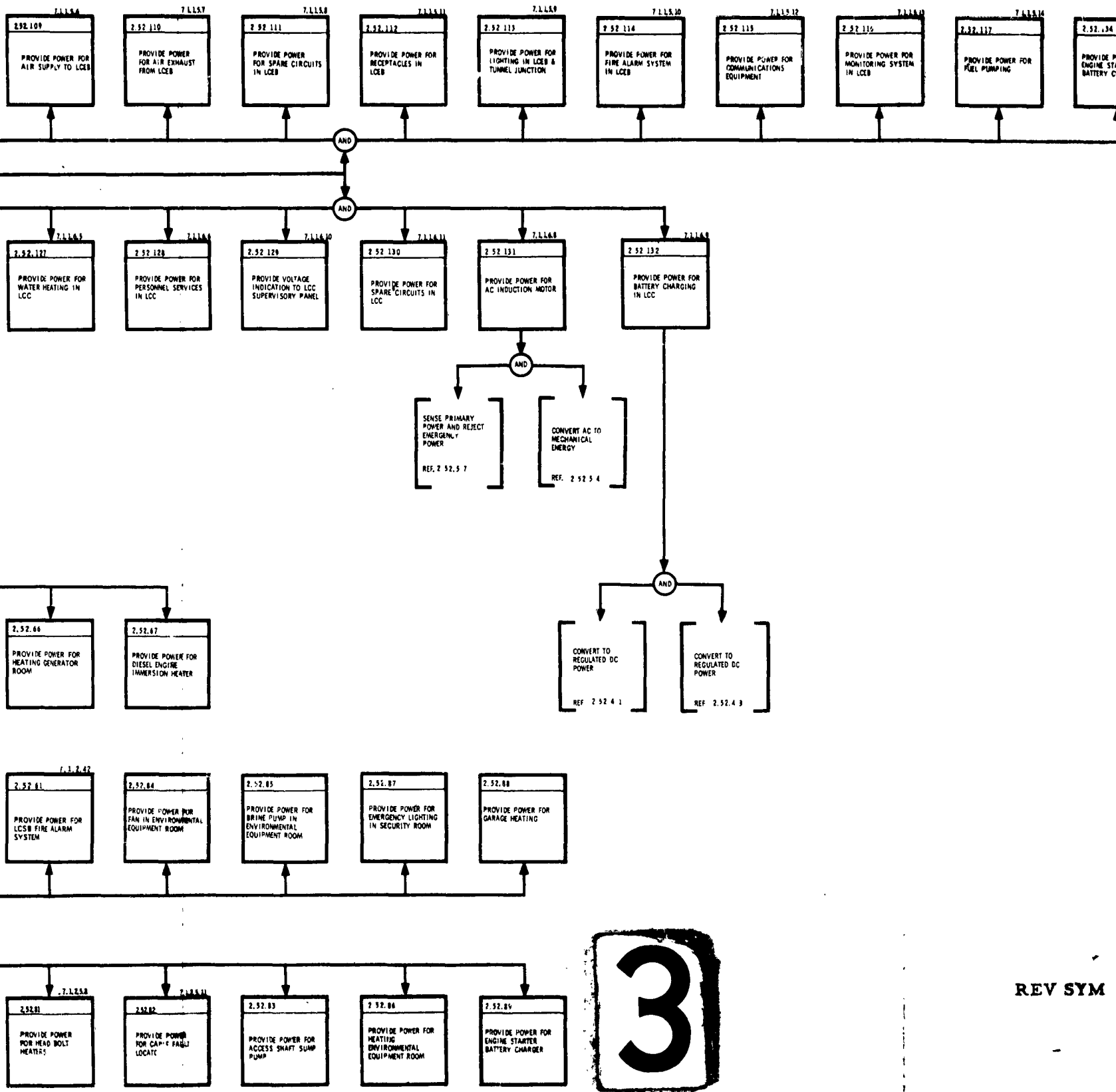
BOEING NO D2-30044-1B
SEC IV PAGE 12

REV SYM C

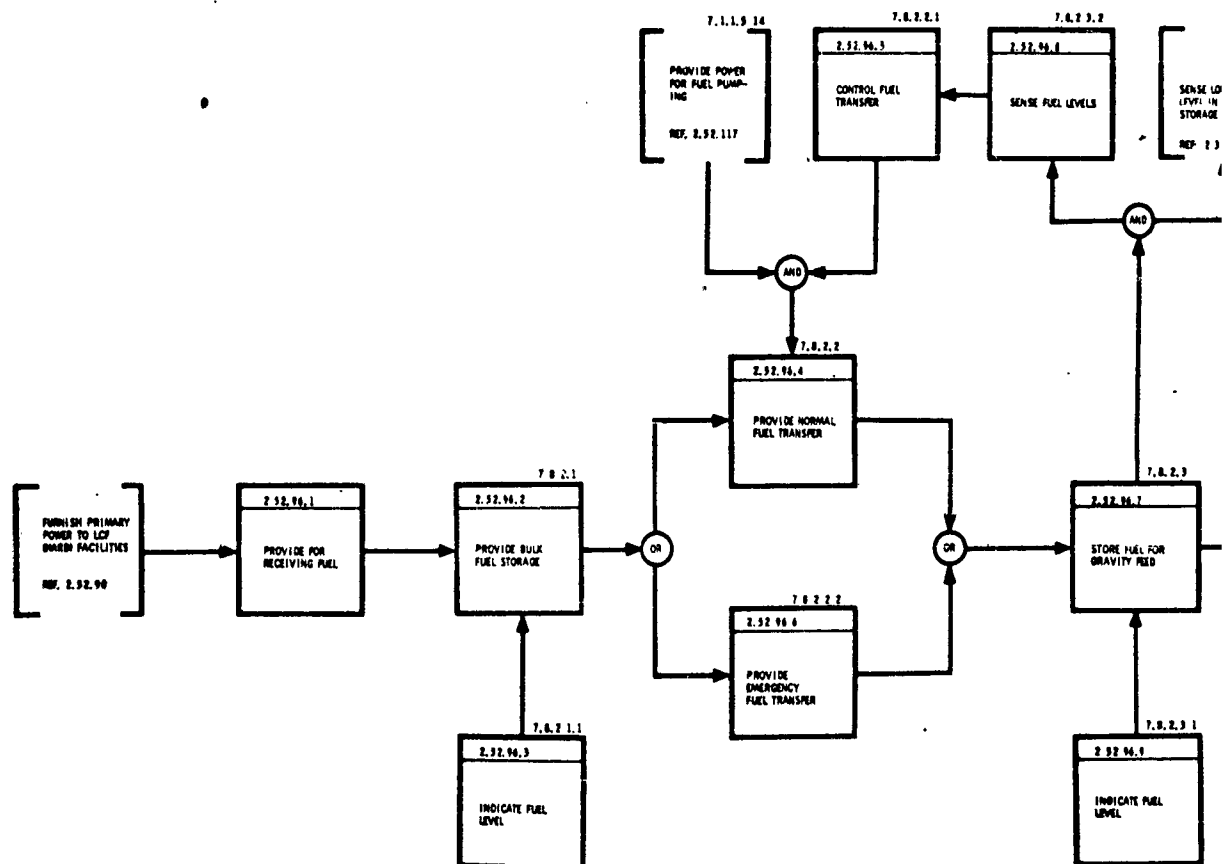
REVISION		DRAWING PREPARED BY: THE RALPH M. PARSONS CO 617 W. 7th STREET LOS ANGELES 17, CALIFORNIA 14 FEBRUARY 1968 APPD 8 MAY 1968	MINUTEMAN WING XI FLOW NAME: MONITOR RPIC LCC SH 1 OF 1 FLOW NO. 2.37
NO.	DATE		



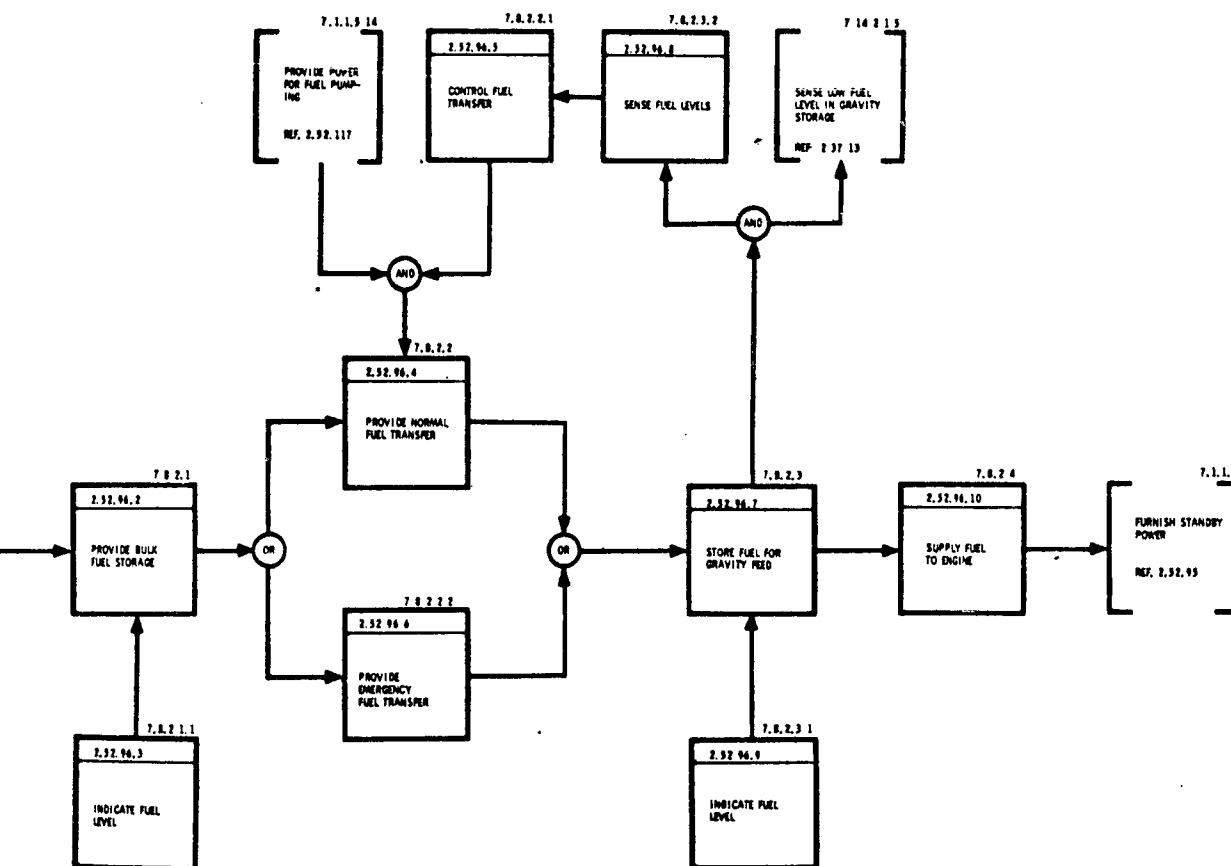




REV SYM



1



2

REV SYM C

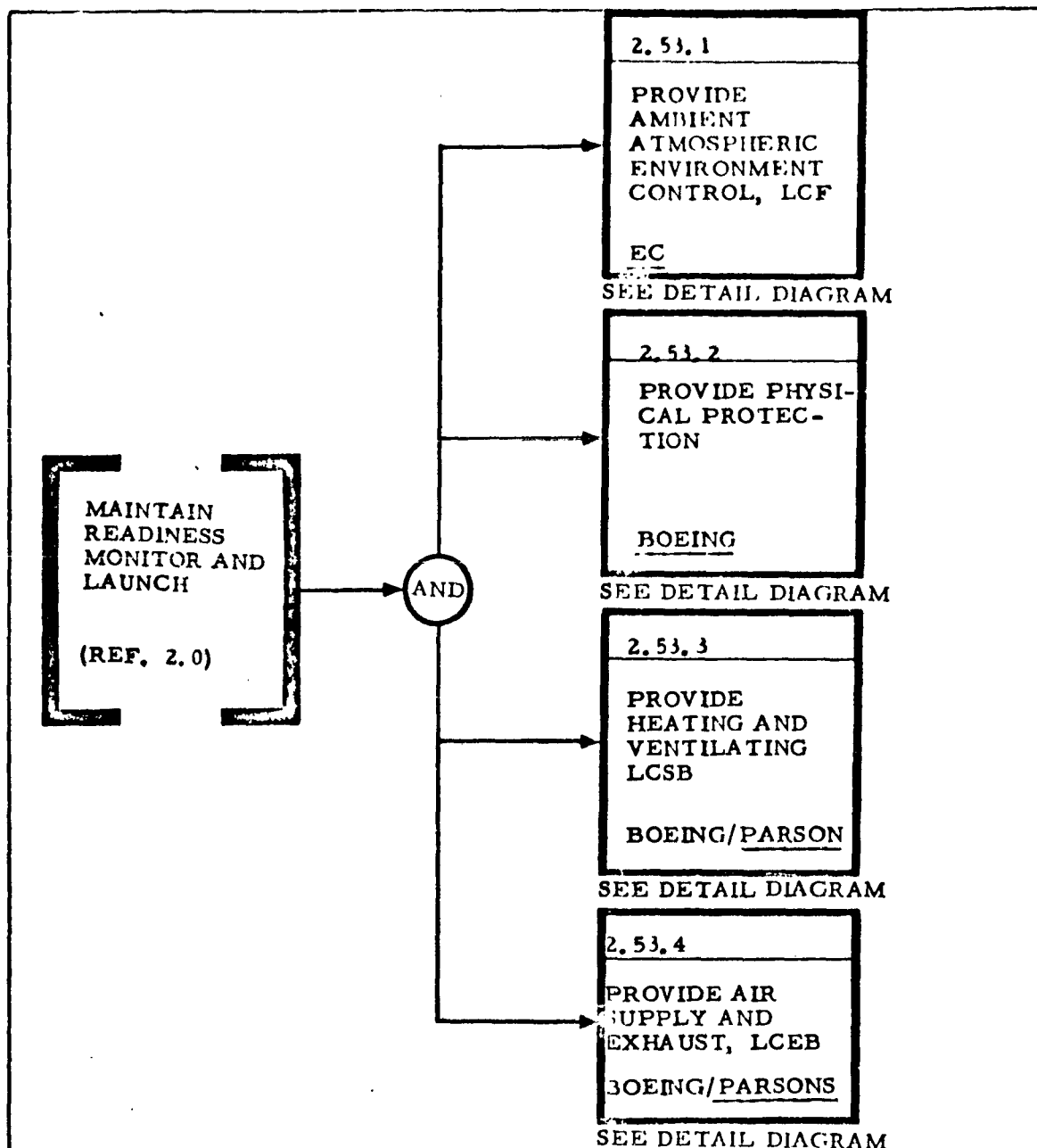
BOEING

NO D2-30044-1B

SEC IV

PAGE 14

BOEING		DRAWING PREPARED BY	MINUTEMAN WING XI
REVISION	DATE	THE RALPH M. PARSONS CO. 617 W. 7TH STREET LOS ANGELES 12, CALIFORNIA 14 FEBRUARY 1963 ATD 8 MAY 60	FLOW NAME PROVIDE FUEL FOR ENGINE, LCF
			SH 1 OF 1 FLOW NO. 7.32.96



BOEING		DRAWING PREPARED BY:		MINUTEMAN WING VI	
REVISION	DATE	BOEING		FLOW NAME:	
		AERO-SPACE DIVISION		PROVIDE ENVIRONMENT LCF	
		W 5133B	DATE		
		DRAWN: <i>D. Tupper</i>	4-30-63		
		CHECK: <i>J. D. Lanza</i>	5-7-63		
		GROUP: <i>W. Damprey</i>	5-7-63		
		PROJECT:		SH OF	FLOW NO. 2.53

U3 4288 2000 REV. 8/62

2-6142-2

REV SYM C

BOEING NO. D2-30044-1B
SECT. IV PAGE 15

7.5
2.53.2
PROVIDE PHYSICAL
PROTECTION FOR THE
LCC
BPE

7.5.1
2.53.2.1
PROVIDE BLAST
PROTECTION LCC
ICAPSULE
BPE

7.5.1.1
2.53.2.2
PROTECT FROM
SHOCK EFFECT
BPE

7.5.1.1.1
2.53.2.2.2
PROVIDE SHOCK
ATTENUATION FOR
CRITICAL EQUIPMENT
BPE/BOEING

7.5.1.1.1
2.53
PROT
FOR
AND
SHO
BPE.1

7.5.1.1
2.53
PROT
CON
FLEX
RIGI
TSD
BPE

7.5.1.2
2.53.2.7
PROVIDE SHOCK
ATTENUATION FOR
HARDENED
COMMUNICATION
ENTRANCES
BPE

7.5.1.2
2.53.2.8
PROTECT FROM BLAST
PRESSURE EFFECTS
BPE

7.5.1.2.1
2.53.2.9
PROVIDE BLAST
PROTECTION FOR LCC
ICAPSULE ENTRY
BPE

7.5.2.1.1
2.53.2.13
PROVIDE BLAST
PROTECTION FOR
ENVIRONMENTAL AIR
OPENINGS
BOEING

7.5.2.1.3
2.53.2.20
PROVIDE BLA
VALVE CONTR
SYSTEM
BOEING

7.5.2
2.53.2.11
PROVIDE BLAST
PROTECTION LCEB
BPE

7.5.2.1
2.53.2.12
PROTECT FROM BLAST
PRESSURE EFFECTS
BPE

7.5.2.1.2
2.53.2.14
PROVIDE BLAST
PROTECTION FOR
HARDENED LCEB
ENTRY
BPE

7.5.2.1.1.1
2.53.2.22
MONITOR LCEB BLAST
VALVE CONTROL
SYSTEM STATUS
BOEING

7.5.2.1.2
2.53.2.23
DISPLAY LCEB
VALVE SYSTEM
BOEING

7.5.2.2.2
2.53.2.19
PROVIDE SHOCK
ATTENUATION FOR
LIGHTING FIXTURES
BPE

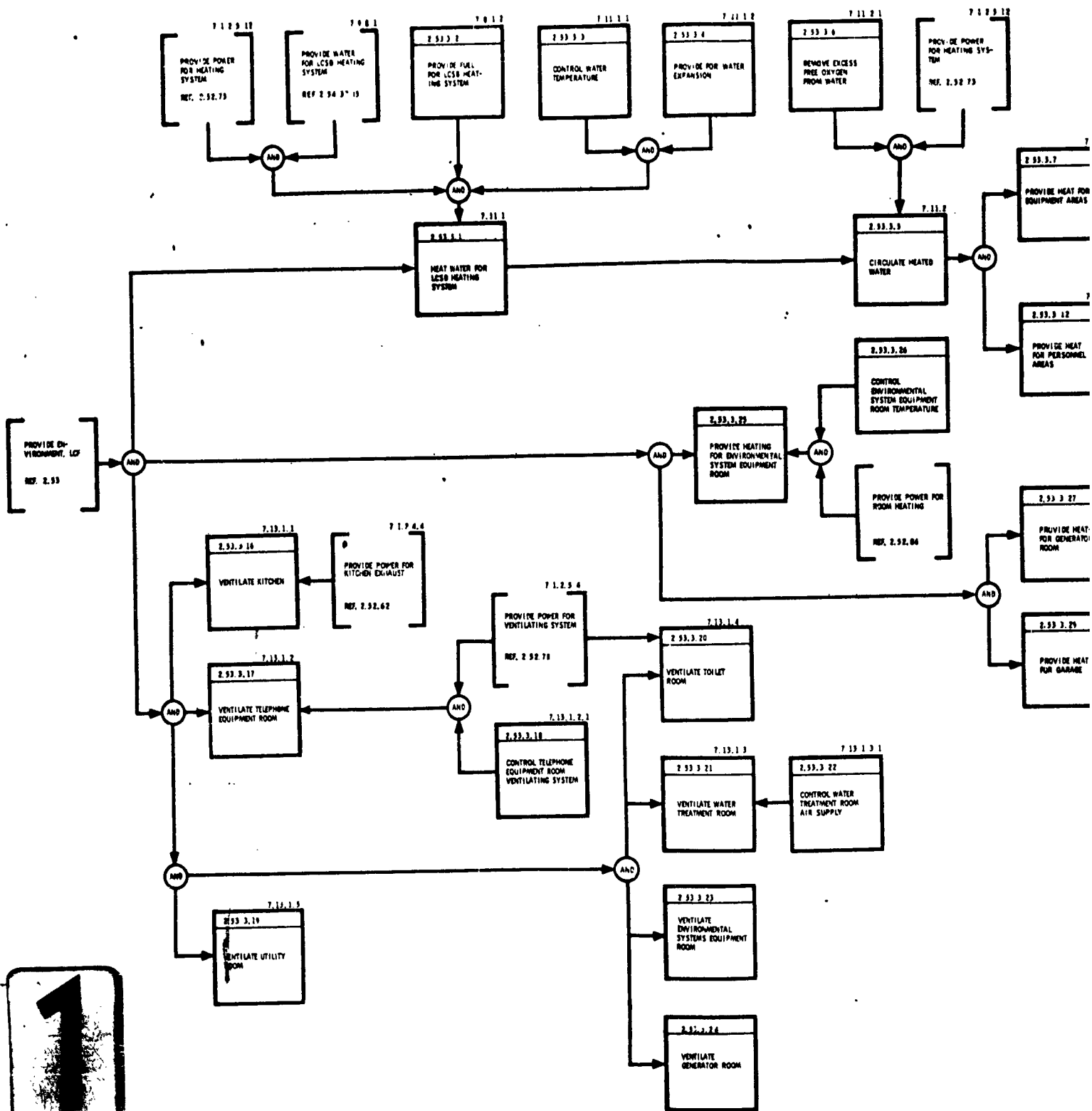
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2.53.2.16
PROTECT FROM
SHOCK EFFECT
BPE

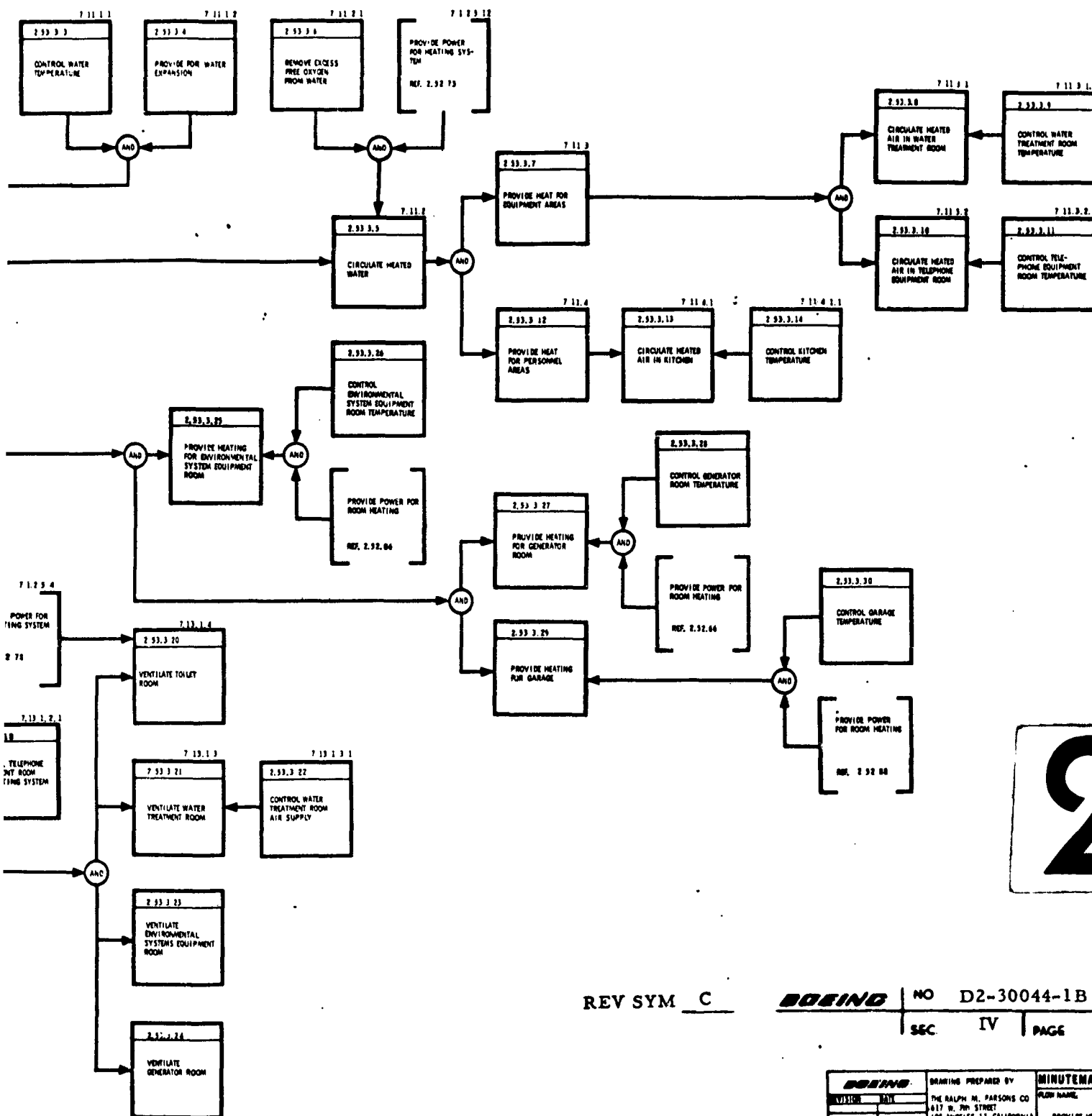
7.5.2.2.1
2.53.2.17
PROVIDE SHOCK
ATTENUATION FOR
CRITICAL EQUIPMENT
BPE/BOEING

7.5.2.2.1
2.53.2.18
PROVIDE INT
CONNECTION
FLEXIBILITY
RIGID TO SH
ISOLATED E4
BPE

1

1





REV SYM C

BOEING

NO D2-30044-1B

SEC

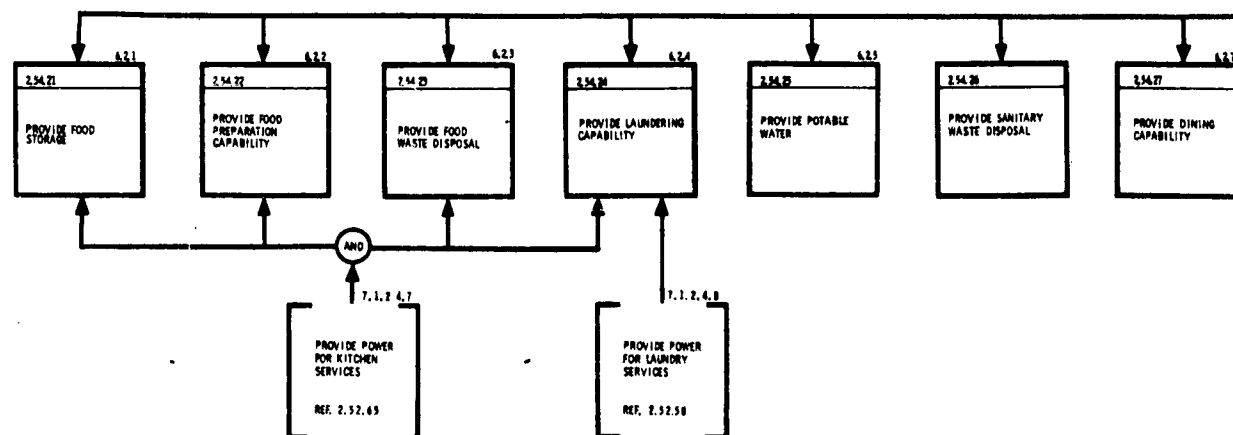
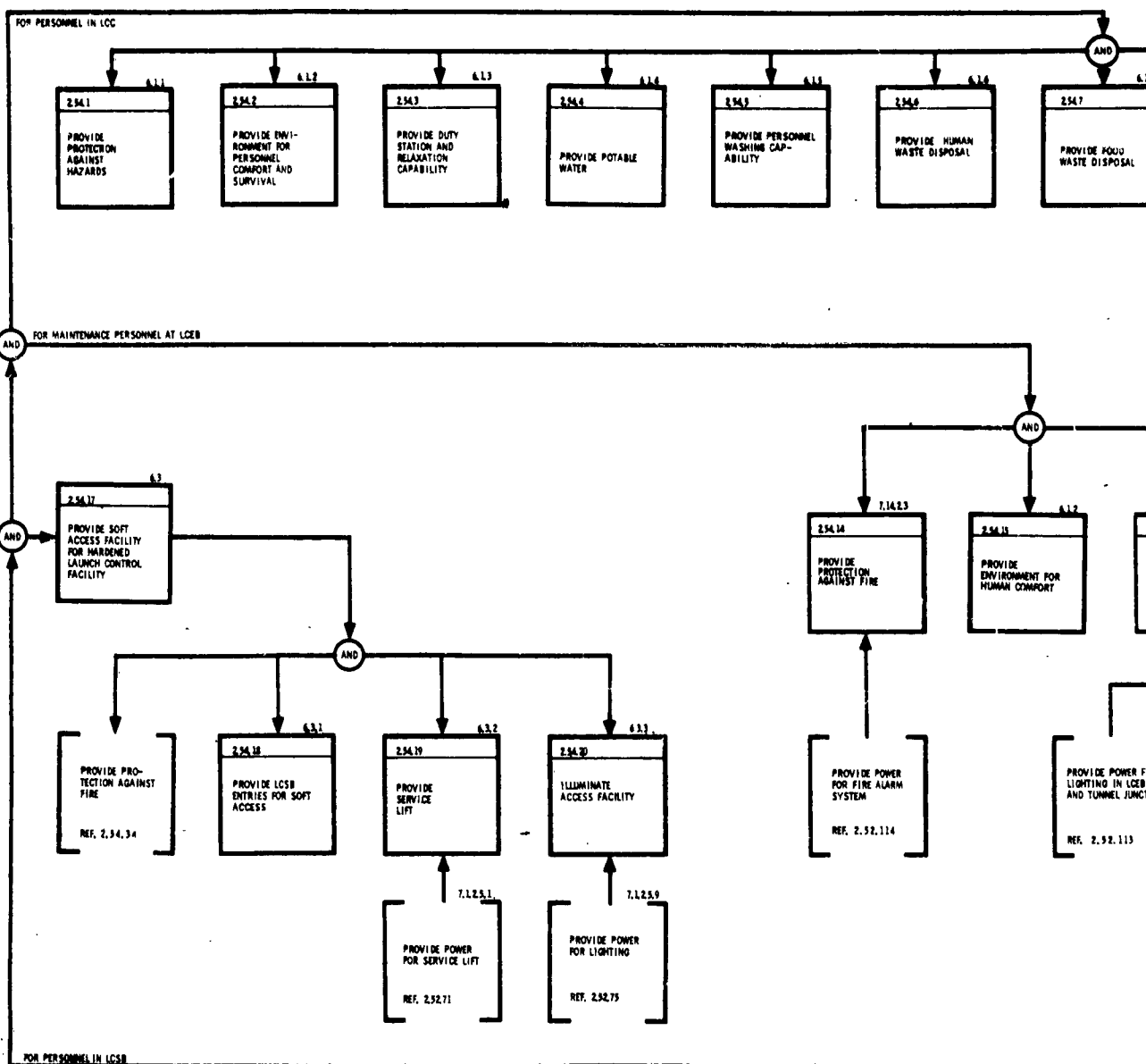
IV

PAGE

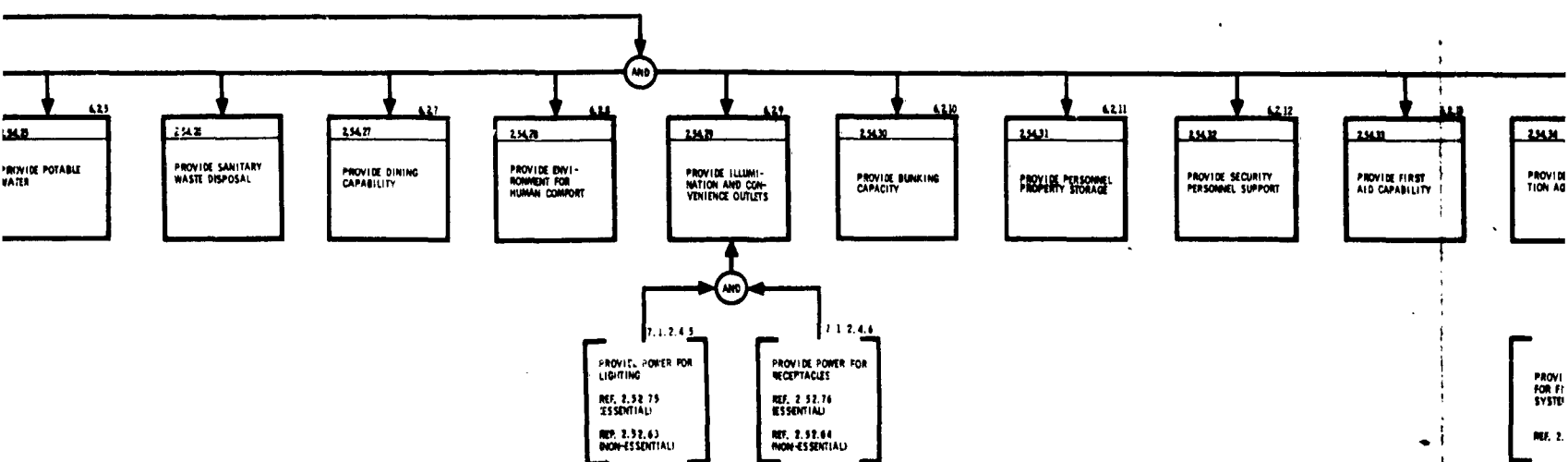
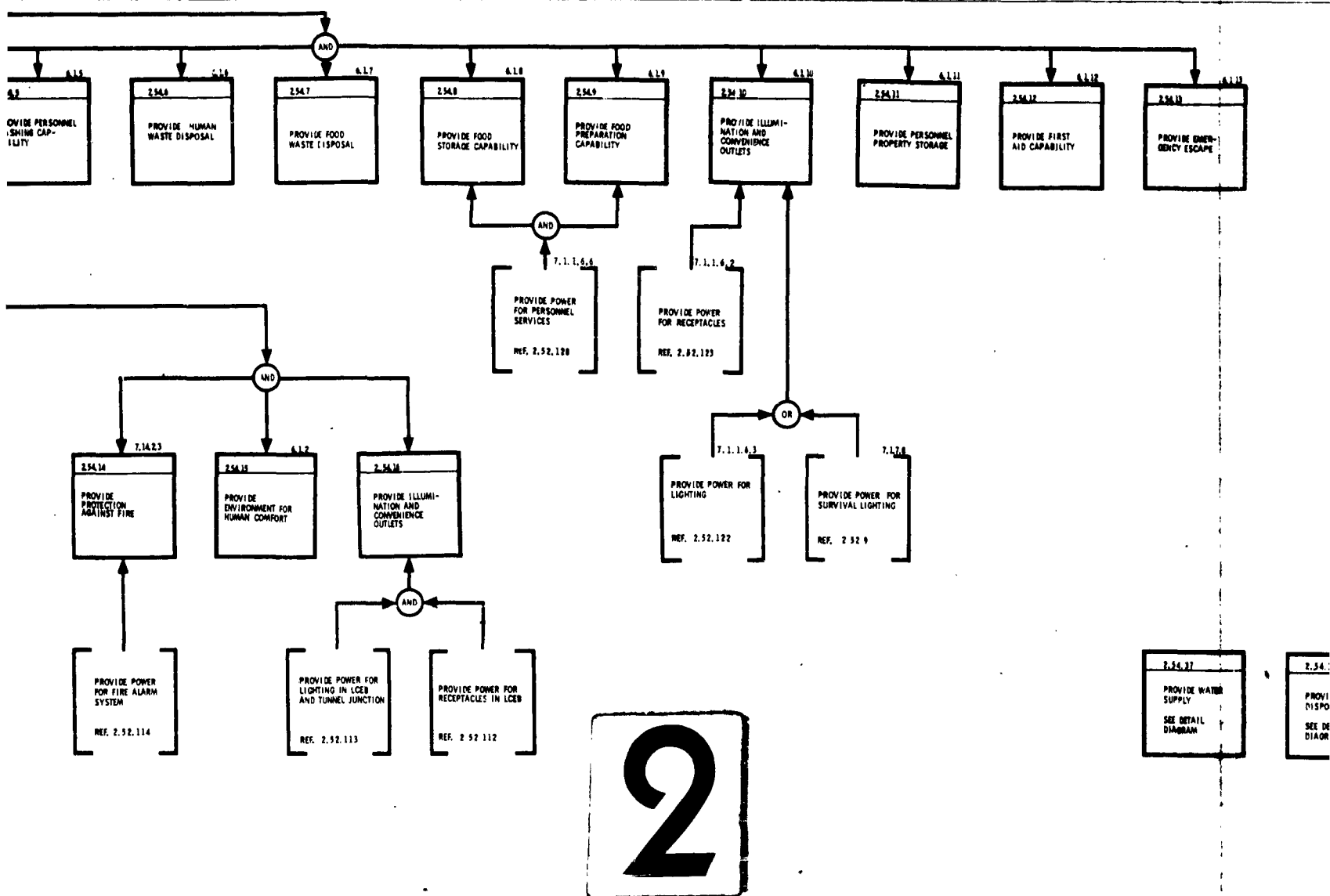
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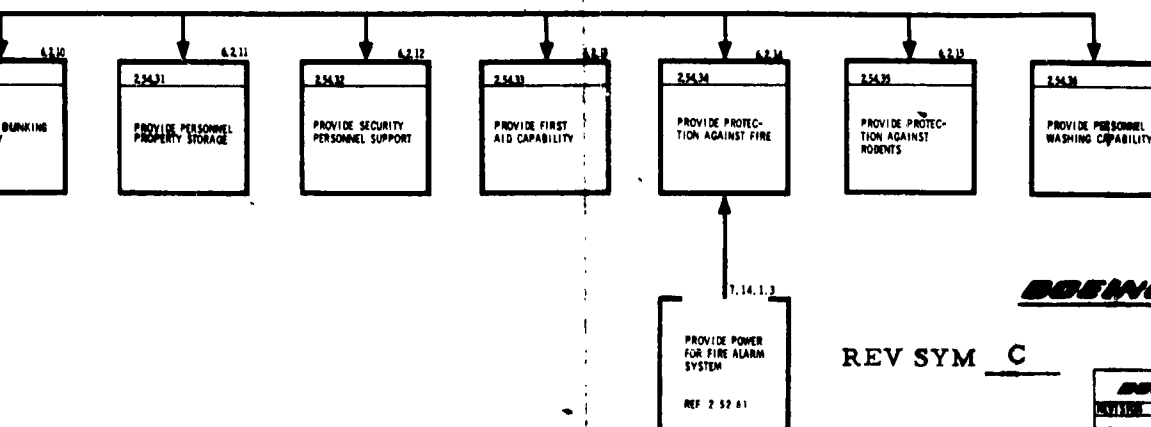
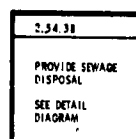
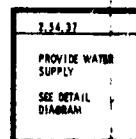
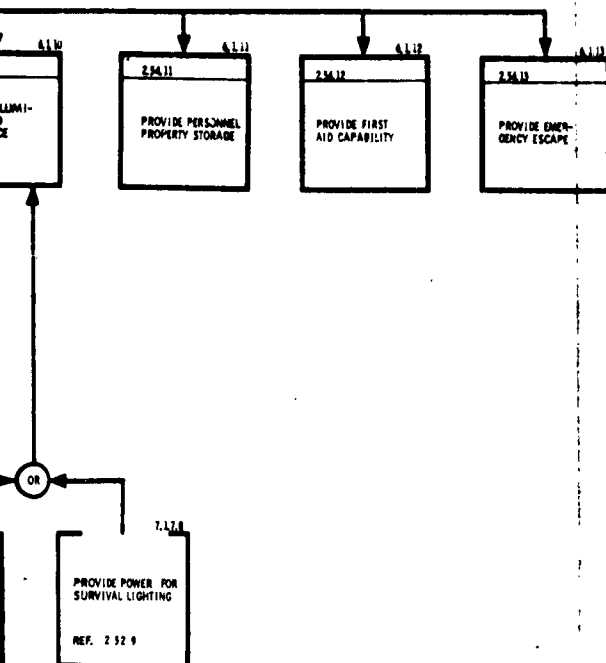
BOEING		DRAWING PREPARED BY		MINUTEMAN WING 31	
VISION	DATE	THE RALPH M. PARSONS CO		FLOW NAME	
		817 W. 7TH STREET		PROVIDE HEATING AND	
		LOS ANGELES 17, CALIFORNIA		VENTILATING, LC30	
		14 FEBRUARY 1963			
		APPRO 5 MAY 1968			
				SH 127.1 (FLOW NO. 2.53.3)	

MAINTAIN
READINESS, MONITOR
AND LAUNCH
REF. 2.0



1





3

REV SYM C

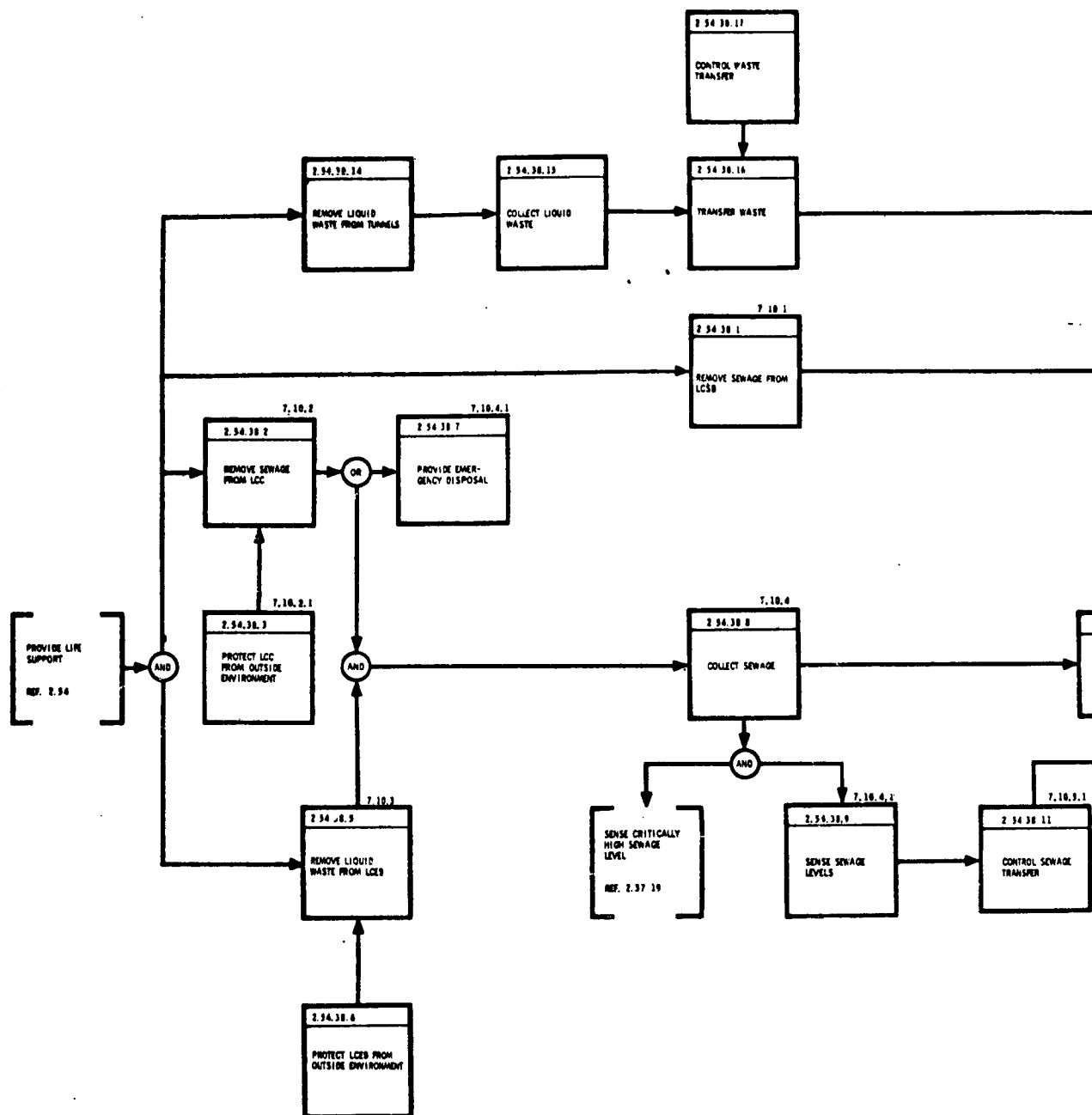
BOEING NO D2-30044-1B

SEC IV

PAGE 18

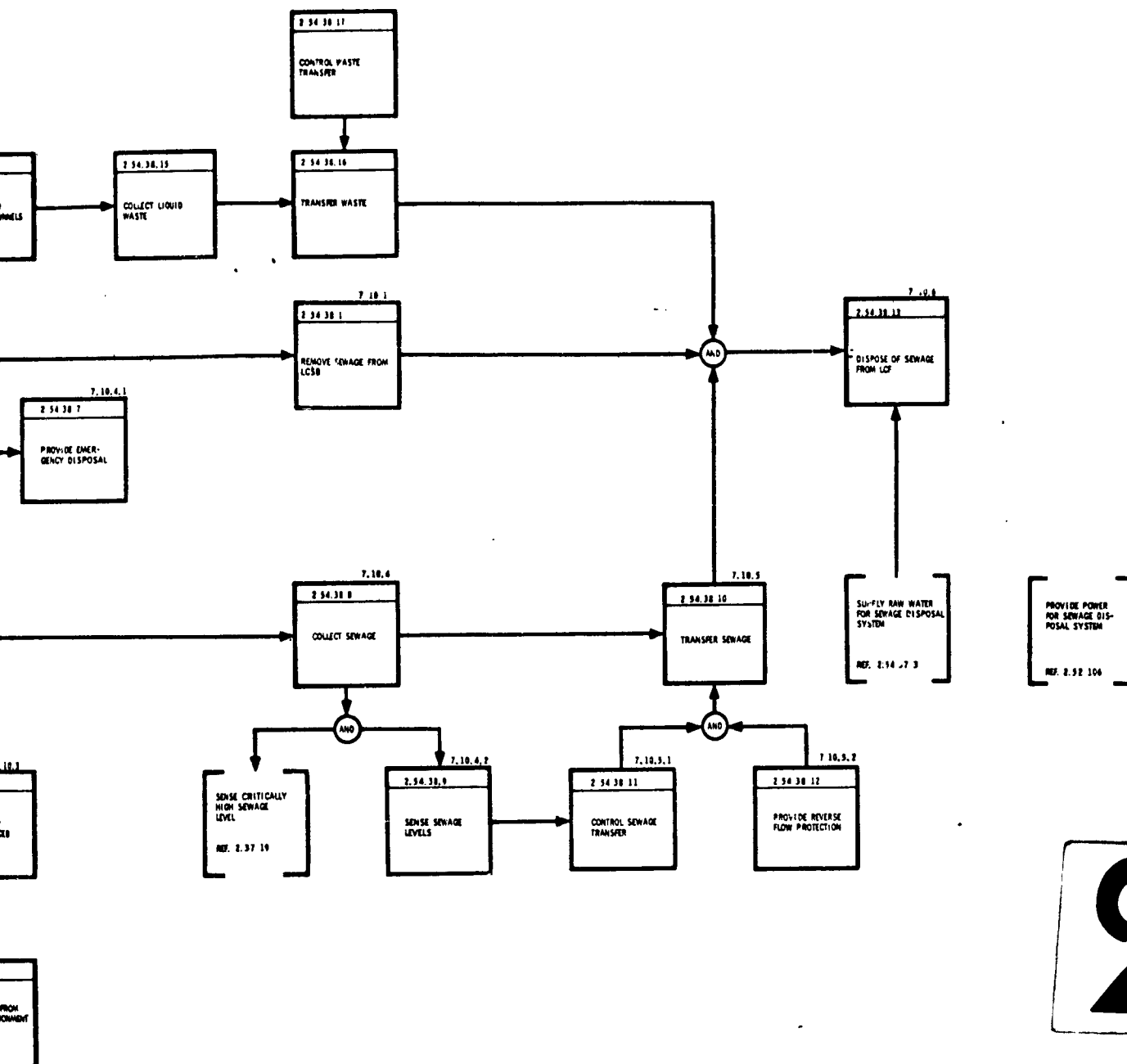
REVISION		DRAWING PREPARED BY: THE RALPH W. PARSONS CO. 617 W. 7th STREET LOS ANGELES 17, CALIFORNIA 14 FEBRUARY 1963 APPD 8 MAY 1963	MINUTEMAN WING II	
NO.	DATE		FLOW NAME: PROVIDE LIFE SUPPORT LCF	
				SHEET 1 FLOW NO. 2.54





1

REV SY



2

REV SYM C

BOEING

NO. D2-30044-13

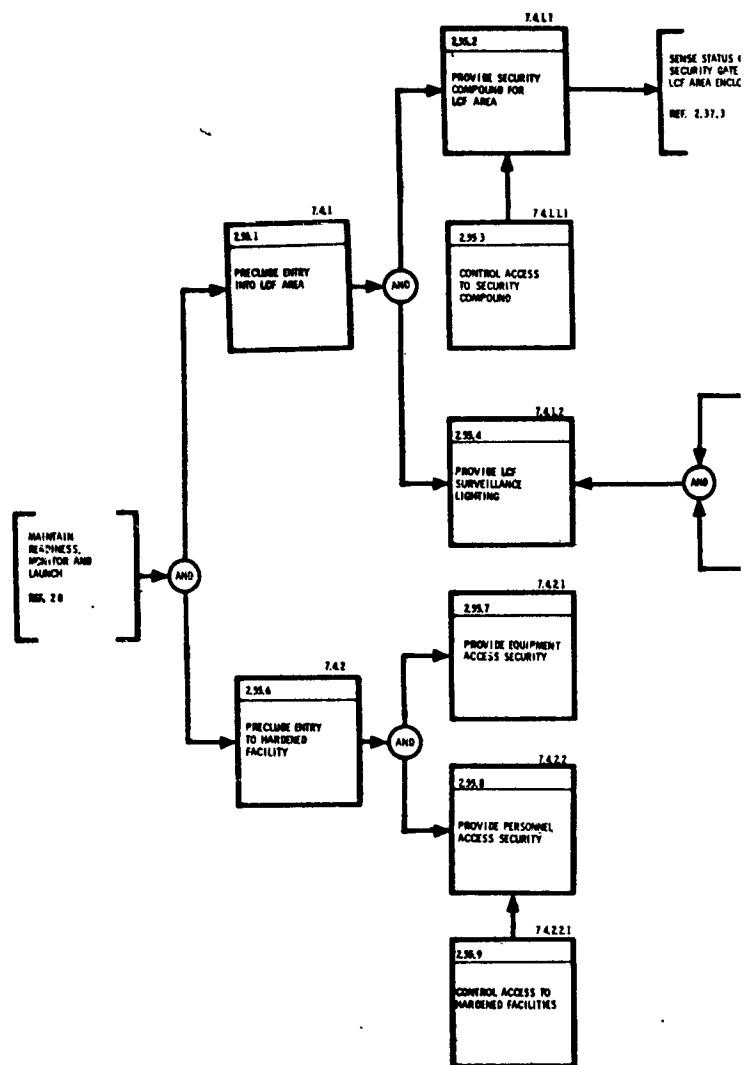
SEC

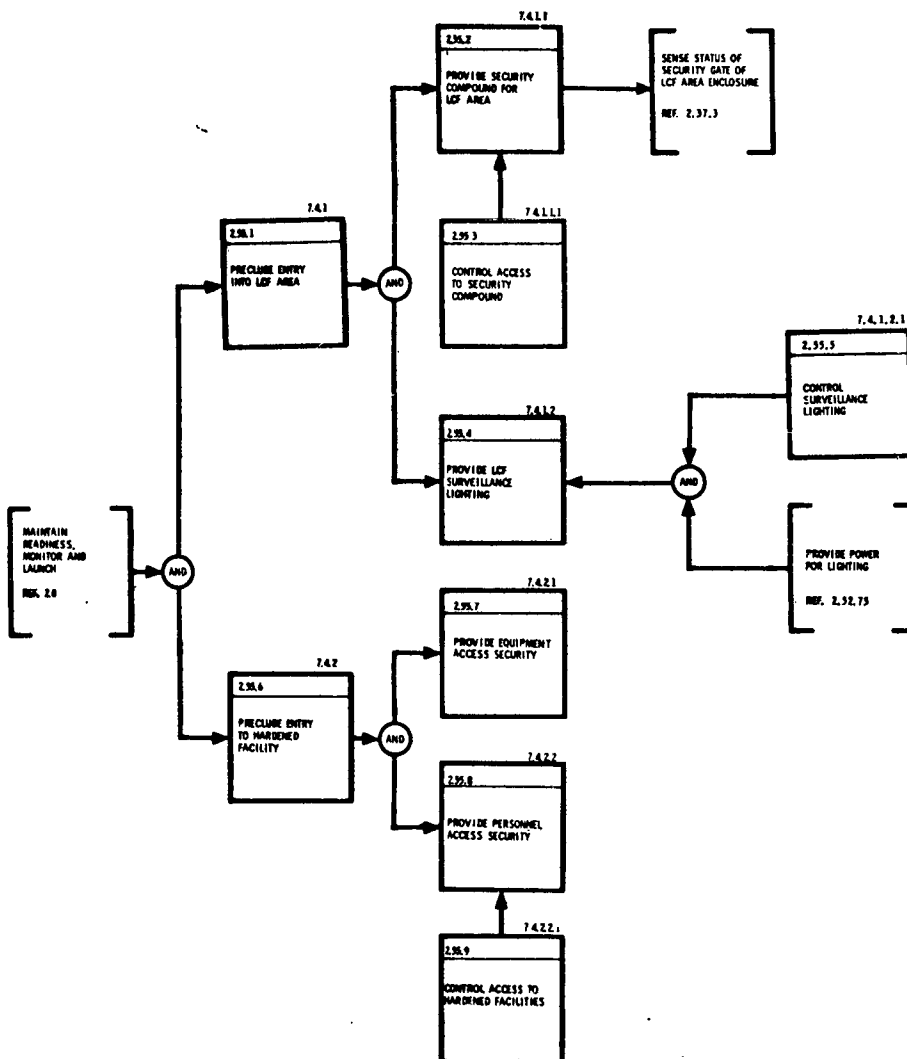
IV

PAGE 20

BOEING		DRAWING PREPARED BY:		MINUTEMAN WING XI
REVISION	DATE	THE RALPH M. PARSONS CO.		FLOW NAME
		617 P. 7TH STREET		PROVIDE SEWAGE DISPOSAL
		LOS ANGELES 17, CALIFORNIA		LCF
		14 FEBRUARY 1963		
		A-2 8 MAY 1963		
				SH LOP 1 FLOW NO. 2 54.38

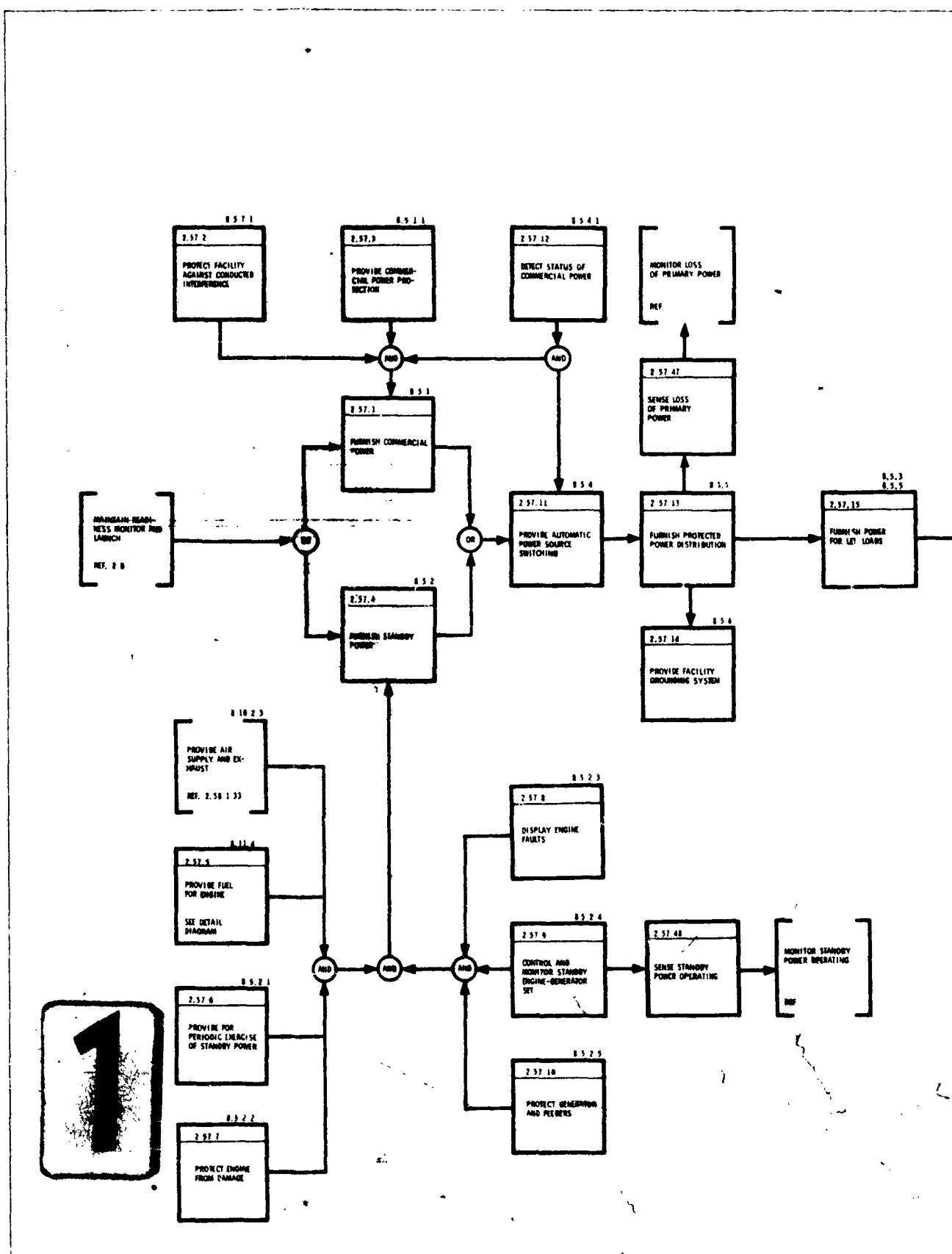
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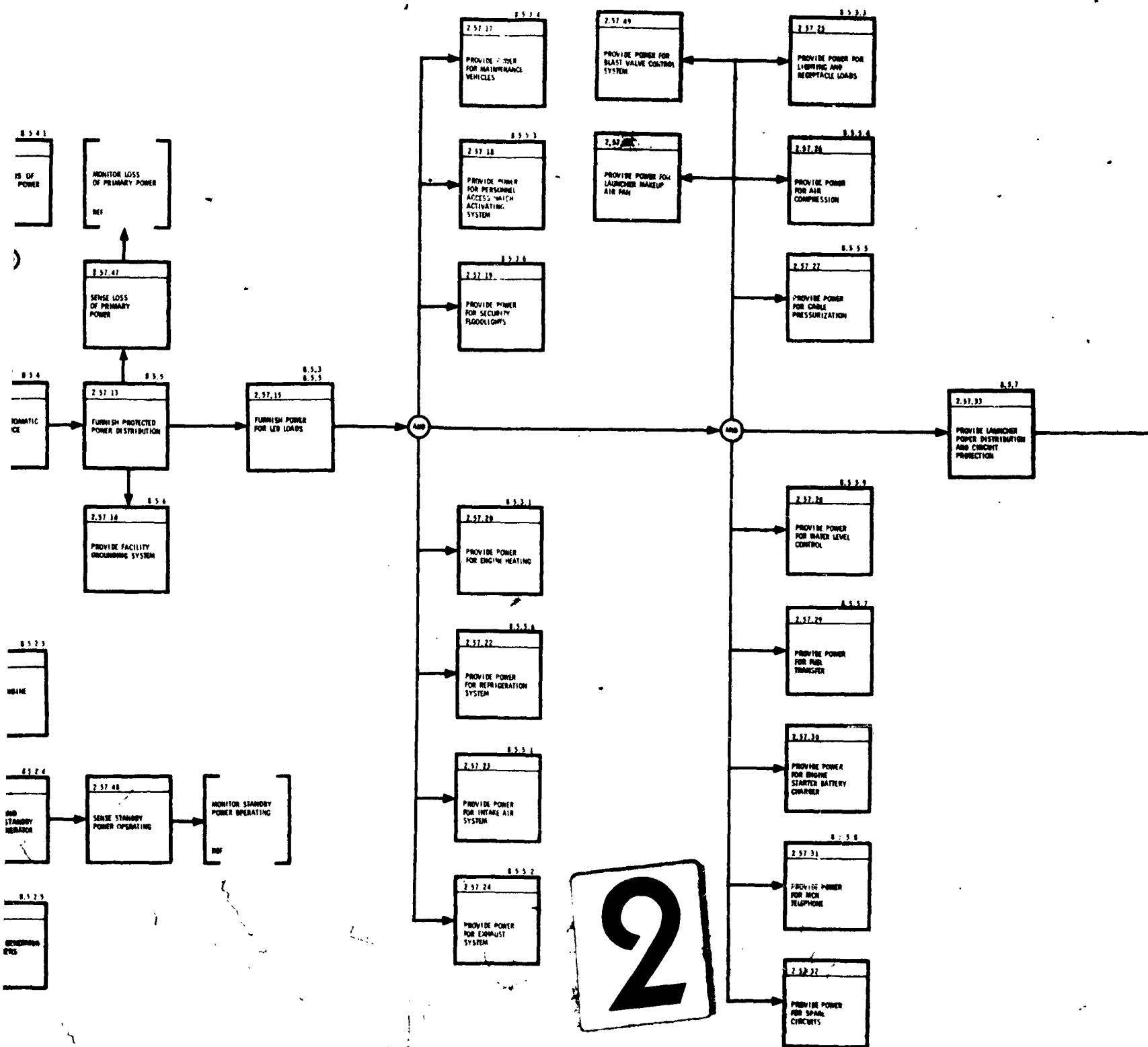


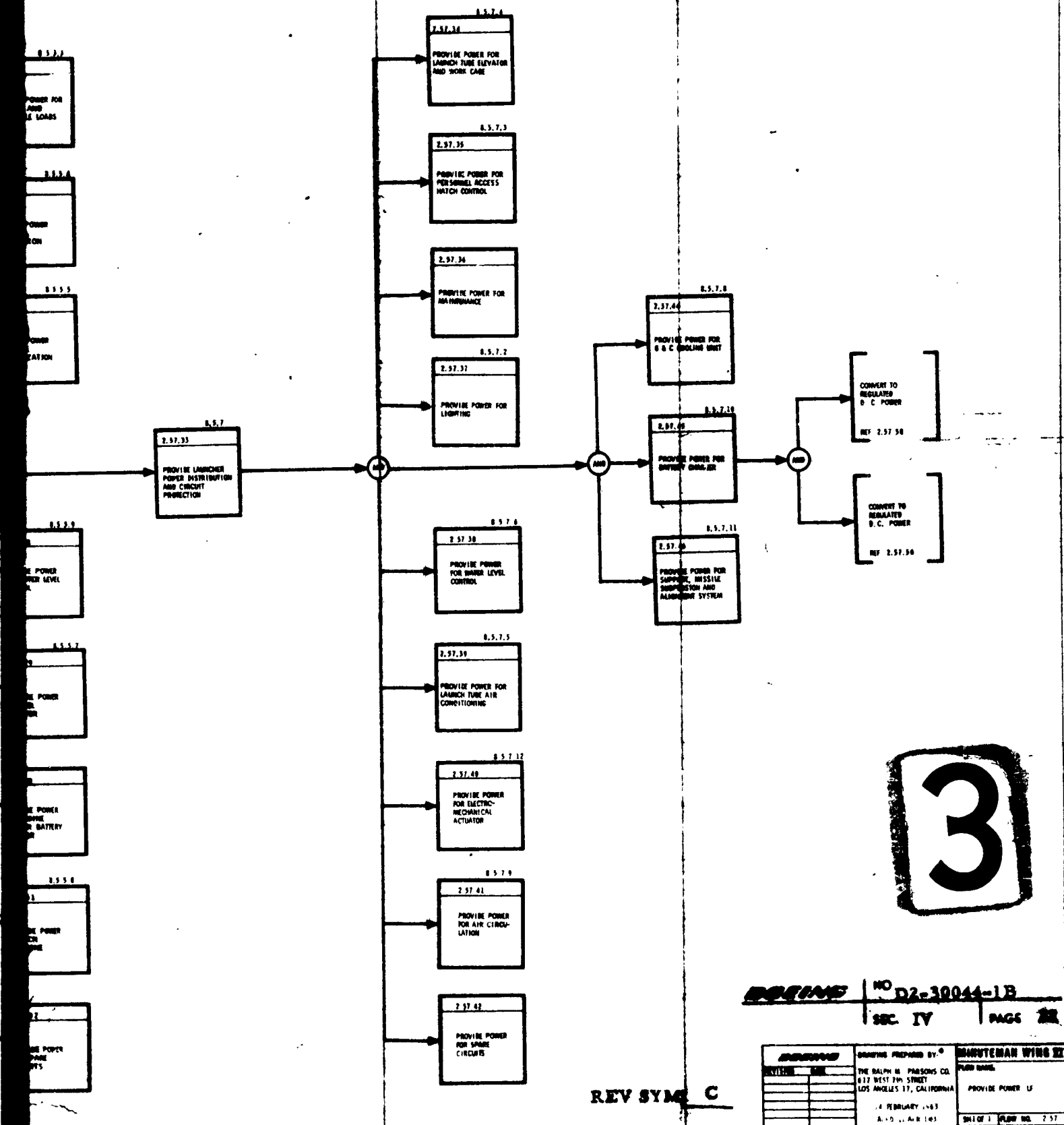


2

BOEING		NO D2-30044-1B	
SEC. IV		PAGE 21	
REV SYM C		DRAWING PREPARED BY: MINUTEMAN WING XI	
REVISION		THE RALPH M. PARSONS CO. 617 WEST 7TH STREET LOS ANGELES 17, CALIFORNIA	
DATE		FLOW NAME: PROVIDE SECURITY, LCF	
		18 FEBRUARY 1963	
		A10 D 11 A'R 204	
		SHEET 1 FLOW NO. 2.55	



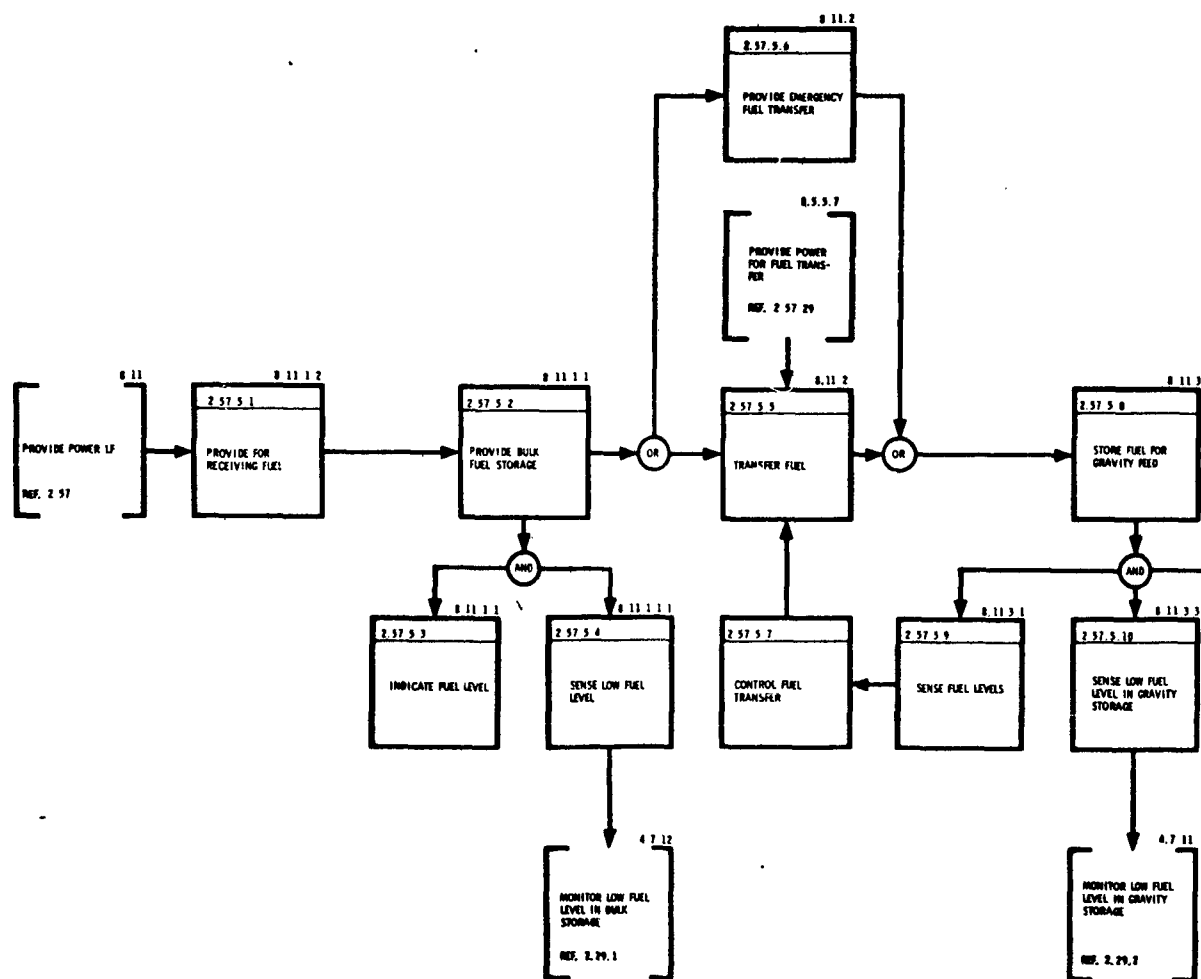




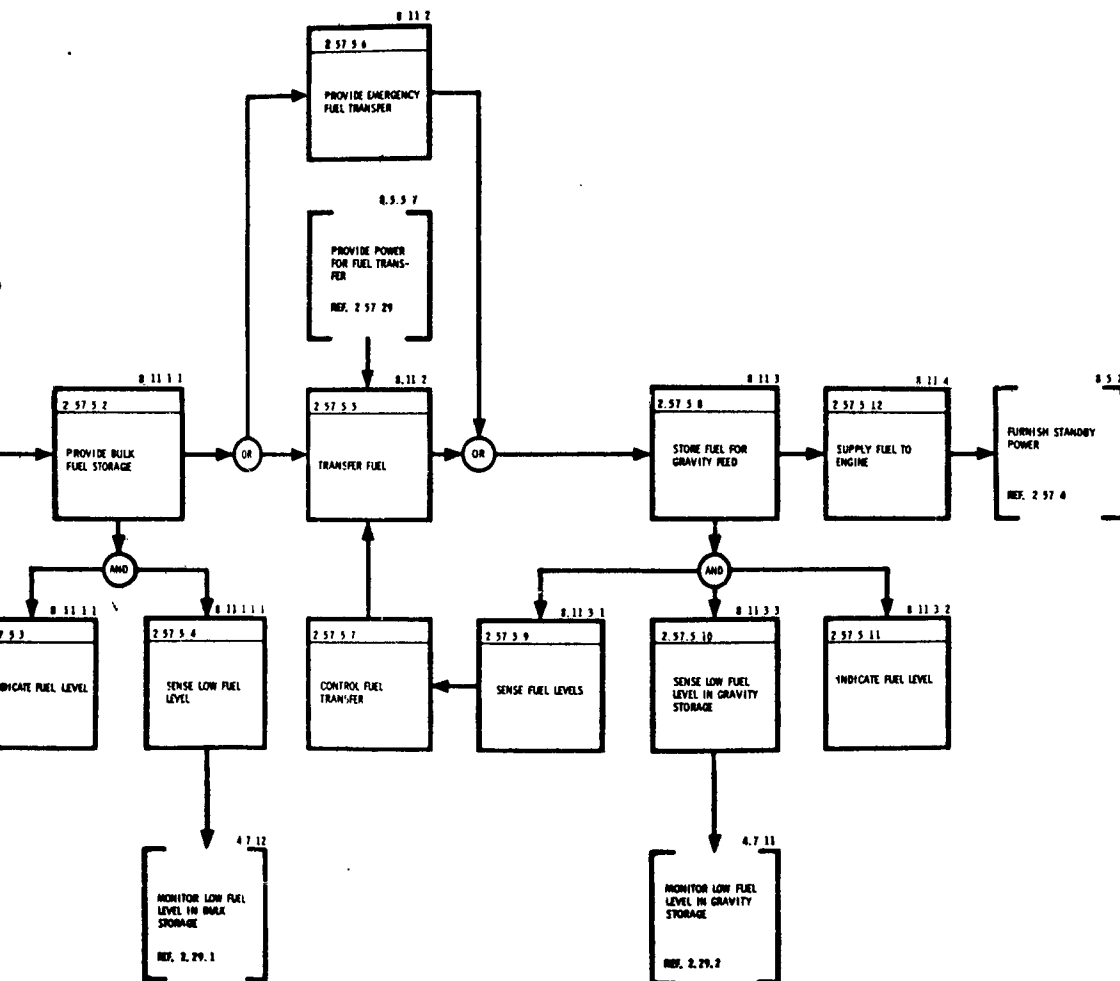
REV SYM C

NO D2-30044-1B	
SEC IV	PAGE 22

DRAWING PREPARED BY: THE RALPH M. PARSONS CO. 617 WEST 7TH STREET LOS ANGELES 17, CALIFORNIA		MINUTEMAN WING II FLYING RANGE PROVIDE POWER IS	
4 FEBRUARY 1963 A-20 11 A-R 145		SHEET 1 OF 1 DRAWING NO. 2.57	



1



2

REV SYM C

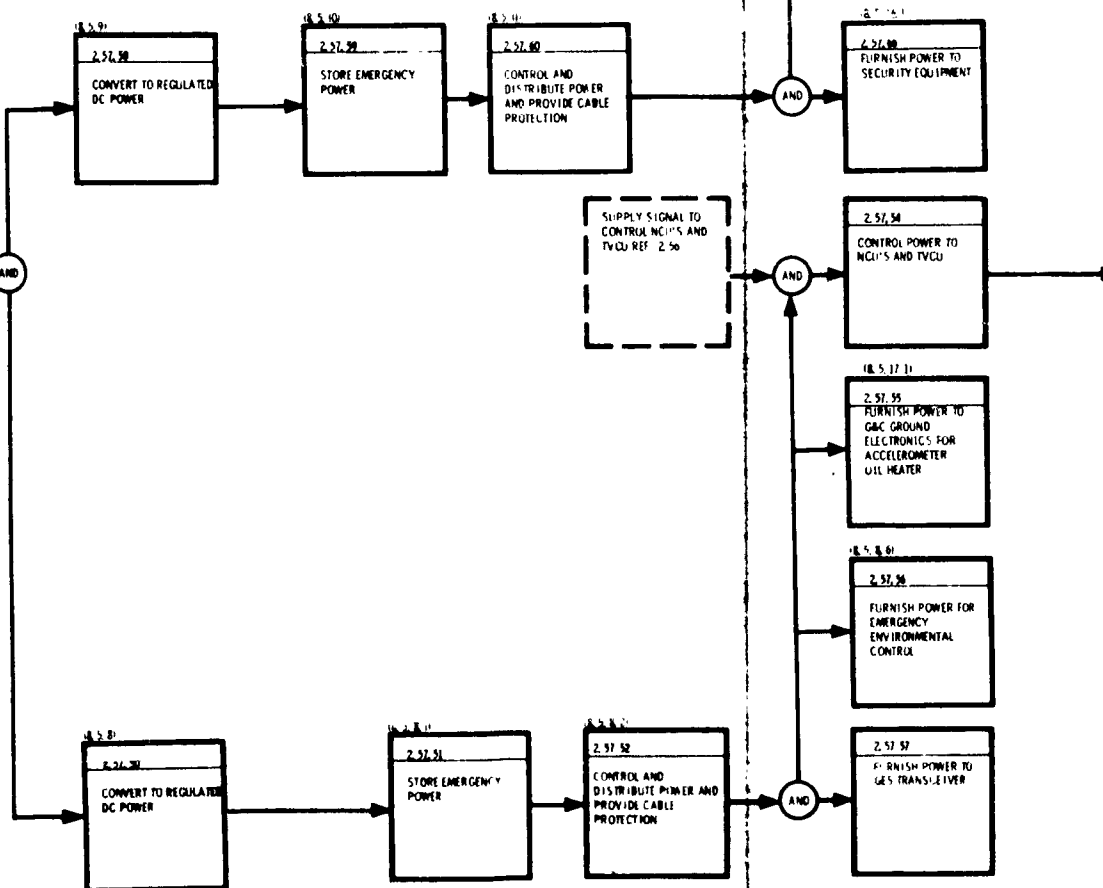
BOEING NO D2-30044-1B

SEC. IV PAGE 23

BOEING		DRAWING PREPARED BY:	MINUTEMAN WING II
DATE:	BY:	THE RALPH M. PARSONS CO.	FLOW NAME:
		617 W. 7TH STREET	
		LOS ANGELES 17, CALIFORNIA	PROVIDE FUEL FOR ENGINE 12
		14 FEBRUARY 1963	
		APPD 11 APR 1963	SH 107 1 FLOW NO. 2.57.5

PROVIDE POWER FOR
BATTERY CHARGERS
(RPIE)
REF 2.57.49

1





NOTE
FUNCTION NUMBERS ABOVE THE BOXES
ARE WS-133A DWG 25-18771 SMT 14

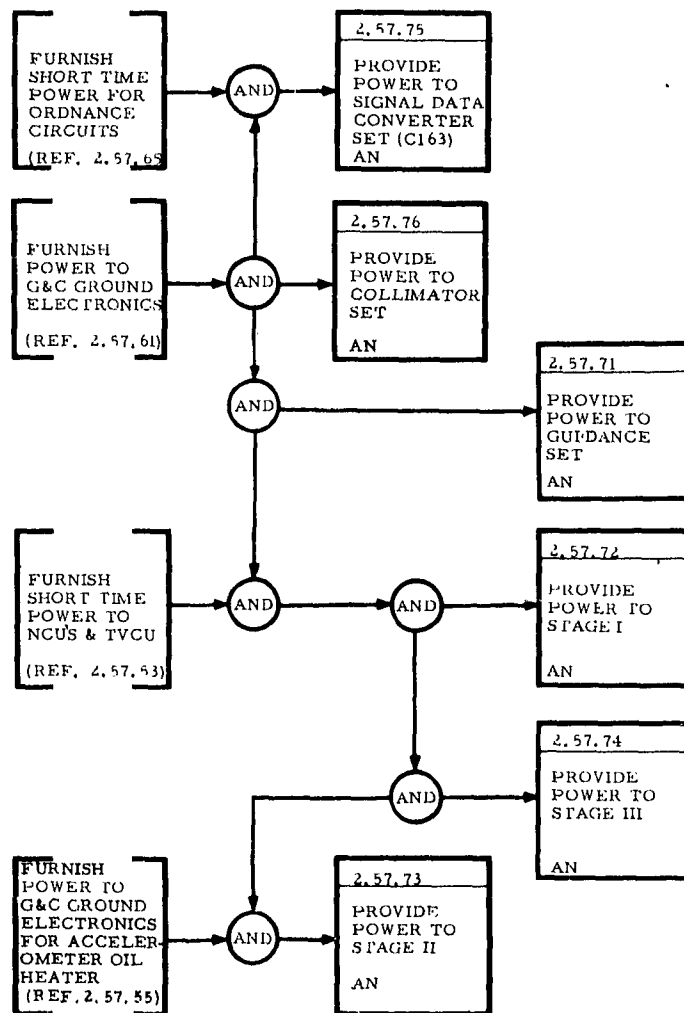
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REV SYM C

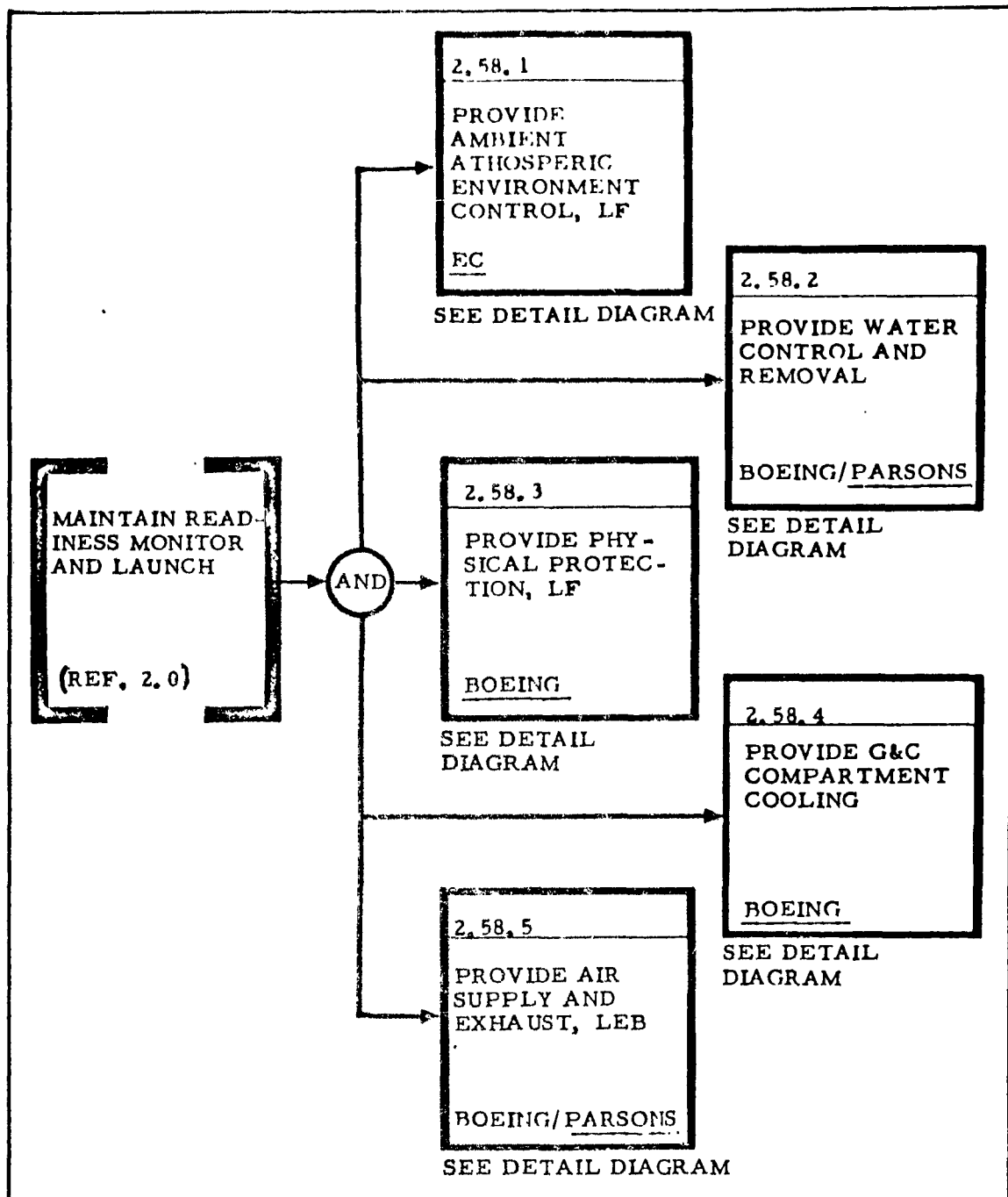
BOEING NO D2-30044-13

SEC. IV PAGE 24

BOEING		DRAWING PREPARED BY		MINUTEMAN WING II	
REVISION	DATE	BOEING		FLUID NAME	
A	12/1/66	AERO-SPACE DIVISION		PROVIDE POWER FUNCTIONAL	
B	1/23/68	DRAWING BY PUPPER		FLOW DRAWING	
		CHECKED BY PUPPER		2 57 30 INCH 2 57 66	
		APPROVED BY PUPPER		SN OF FLOW NO.	
		PROJECT			



BOEING		DRAWING PREPARED BY:		MINUTEMAN WING VI	
REVISION	DATE	BOEING AERO-SPACE DIVISION		FLOW NAME:	
		WS-133B	DATE	PROVIDE POWER	
		DRAWN: GUTHRIE	5-11-63	FUNCTIONAL FLOW	
		CHECK: PLSZYPERSKI	5-14-63	DRAWING	
		GROUP: 11162-1-1	5-14-63	2.57.71 THRU 2.57.76	
		PROJECT:		SH OF	FLOW NO.



BOEING		DRAWING PREPARED BY:		MINUTEMAN WING VI	
REVISION	DATE	BOEING		FLOW NAME:	
		AERO-SPACE DIVISION		PROVIDE ENVIRONMENT LF	
		WS-133B	DATE		
		DRAWN: J. LUND	4-30-3		
		CHECK: <i>[Signature]</i>	5-7-2		
		GROUP: W. Dempsey	5-7-3		
		PROJECT:		SH OF	FLOW NO. 2.58

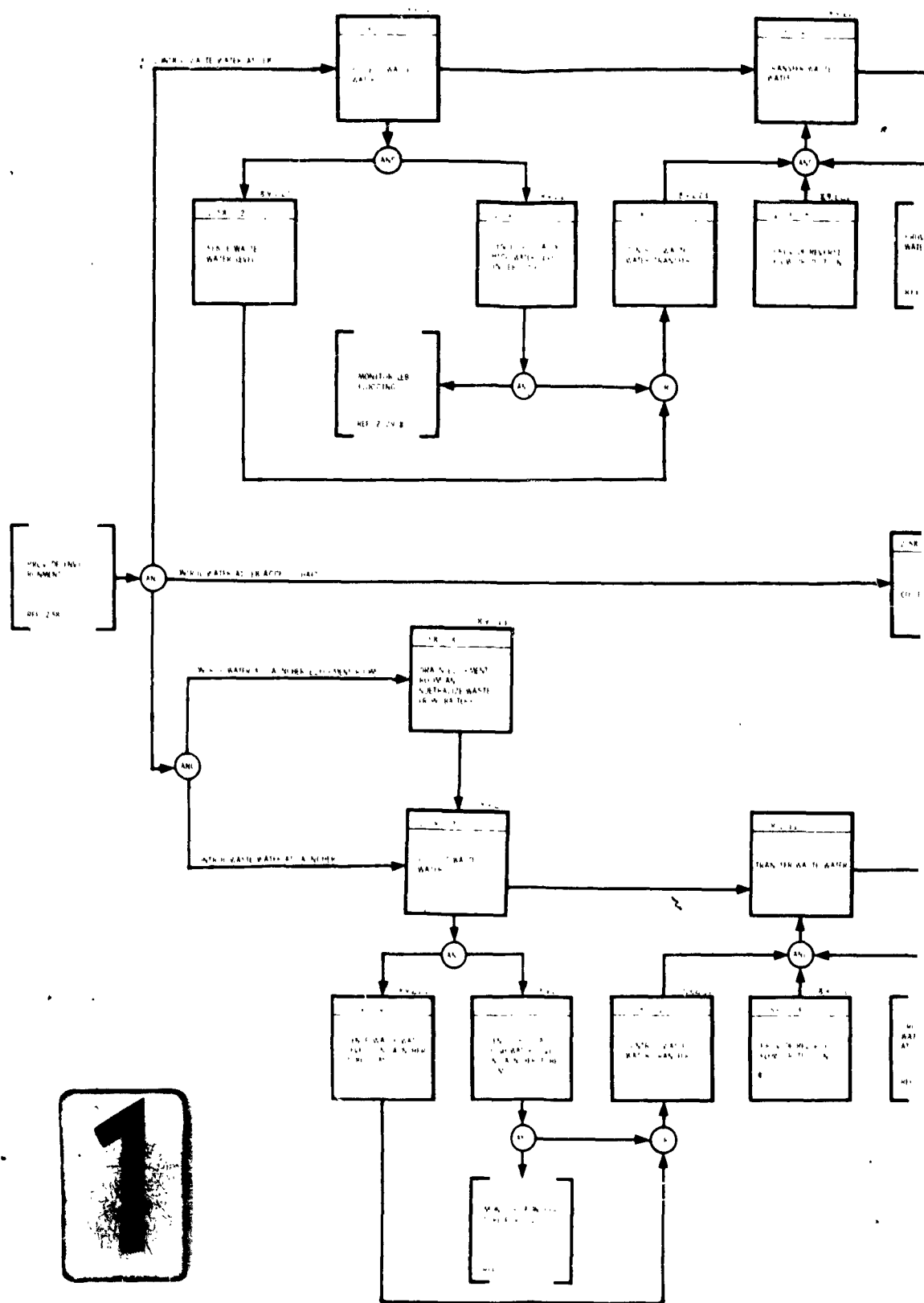
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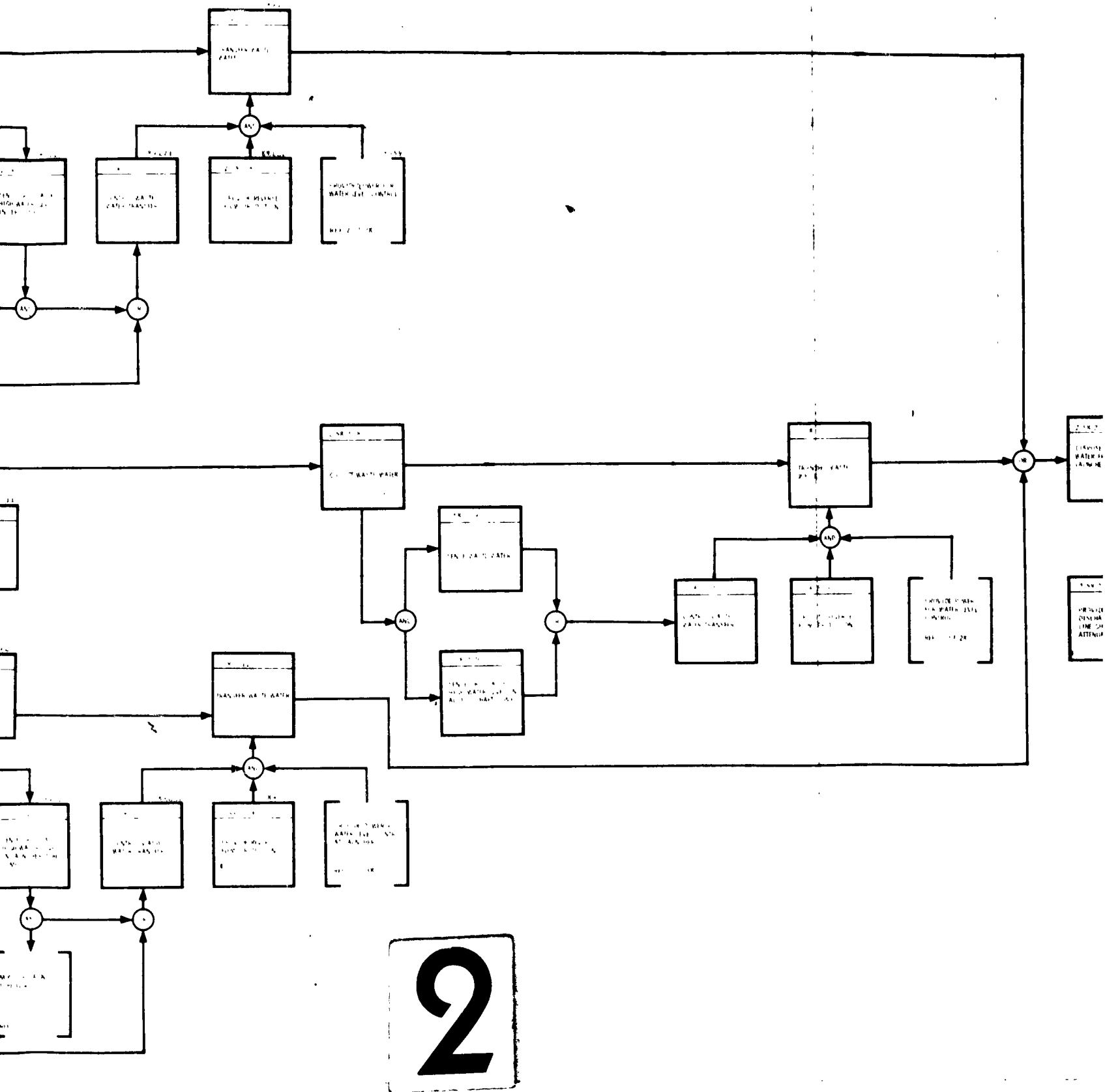
BOEING

NO D2-30044-1B

SEC IV

PAGE 26







BOSSING		DRAWING PREPARED BY	MINUTEMAN WING 1
REVISION	DATE	THE MINUTEMAN PRESIDENT GLENN WILSON 27TH STREET N. ANGLETON, TEXAS 77001	FLOW NAME
		12 SEPTEMBER 1983	PRIVATE WATER CONTROL AND IRRIGATION
		A. J. J. A. M. 1983	SW OF 1 FLOW NO. 7587

2.58.3
PROVIDE
ACCESS
AND PHYSICAL
PROTECTION FOR
HARDENED
LAUNCHER
NPE

AND

2.58.3.1
PROVIDE
PHYSICAL
PROTECTION
FOR LEB
NPE

AND

2.58.3.2
PROTECT
FROM BLAST
PRESSURE
EFFECTS
NPE

2.58.3.5
PROTECT
FROM
SHOCK
EFFECTS
NPE, BOBING

AND

2.58.3.9
PROVIDE ACCESS
FOR PERSONNEL
AND EQUIPMENT
TO LEB
NPE

2.58.3.3
PROVIDE
BLAST PROTECTION
FOR VENTILATION
AIR OPENINGS
BOBING

2.58.3.8
PROVIDE
BLAST
PROTECTION
FOR HARDENED
LEB ENTRY
NPE

AND

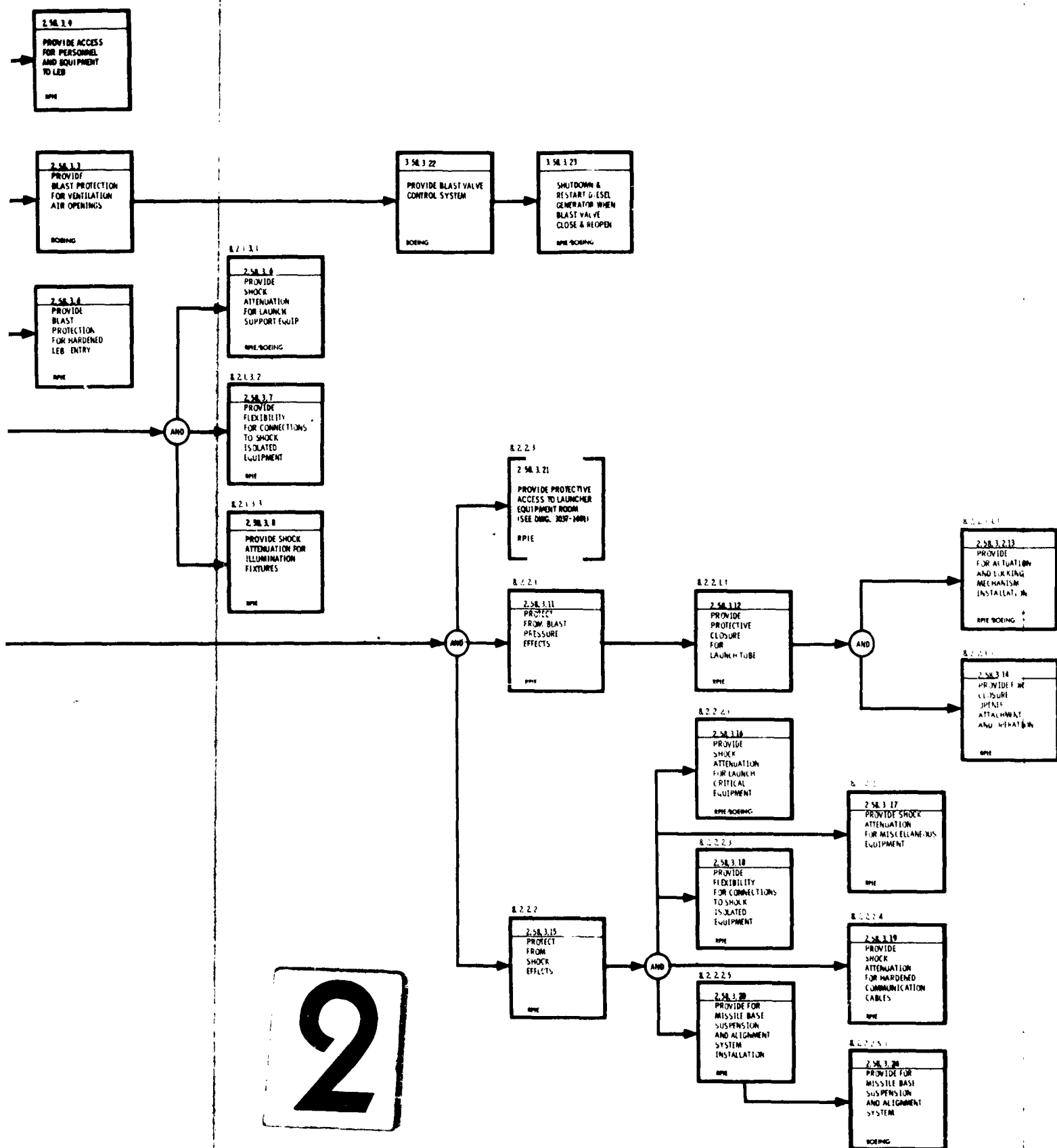
2.58.3.6
PROVIDE
SHOCK
ATTENUATION
FOR LAUNCH
SUPPORT EQUIP
NPE, BOBING

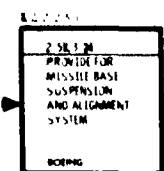
2.58.3.7
PROVIDE
FLEXIBILITY
FOR CONNECTIONS
TO SHOCK
ISOLATED
EQUIPMENT
NPE

2.58.3.8
PROVIDE SHOCK
ATTENUATION FOR
ILLUMINATION
FIXTURES
NPE

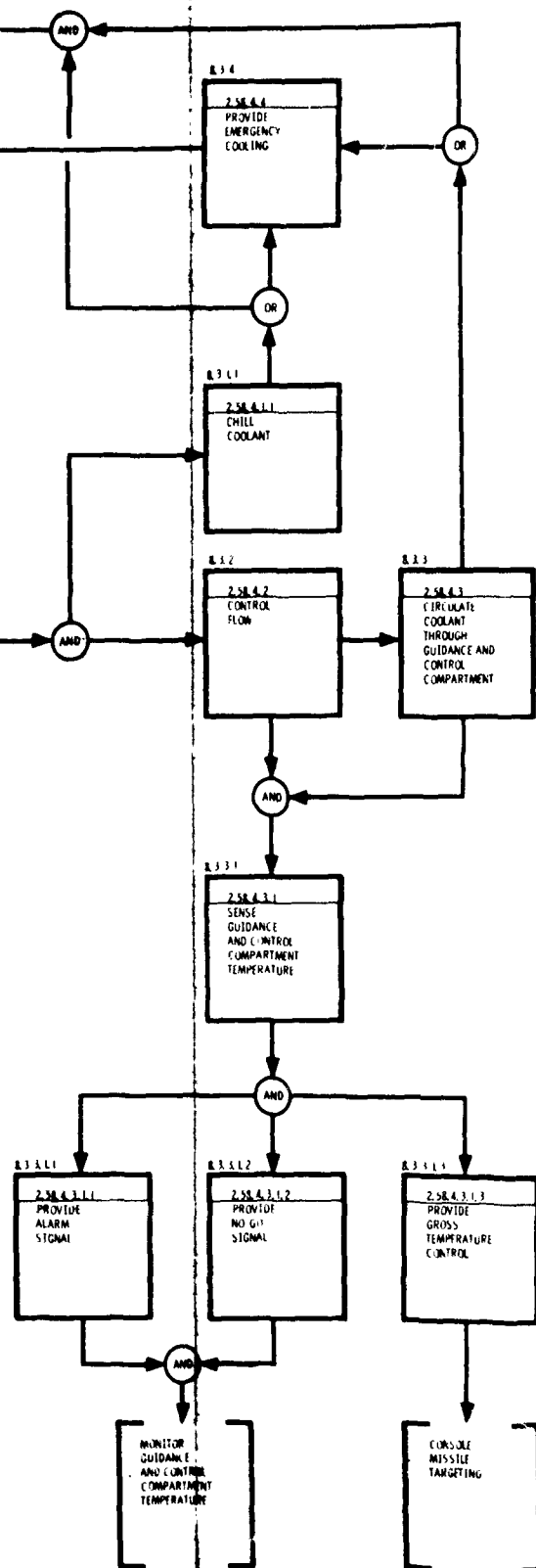
1

2





4



NOTE
FUNCTION NUMBERS ABOVE THE FUNCTION
BOXES ARE FROM

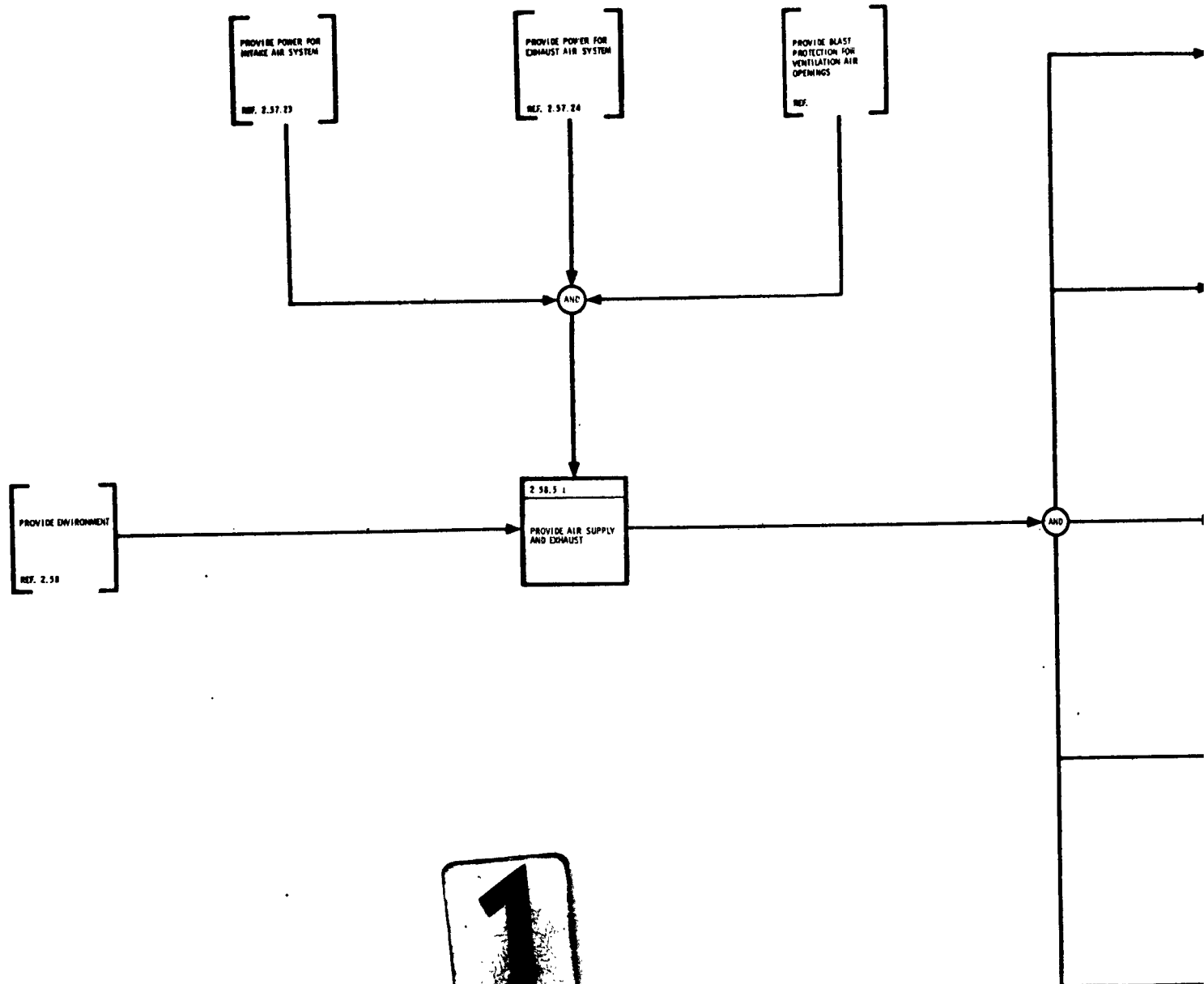
- (1) WING 1 DWG 25-18771 SH IS
FOR 2, 3 & 4 FLOW
- (2) WING 111 DWG 25-33500 SH IS
FOR 2, 3 & 3 FLOW

REV SYM C

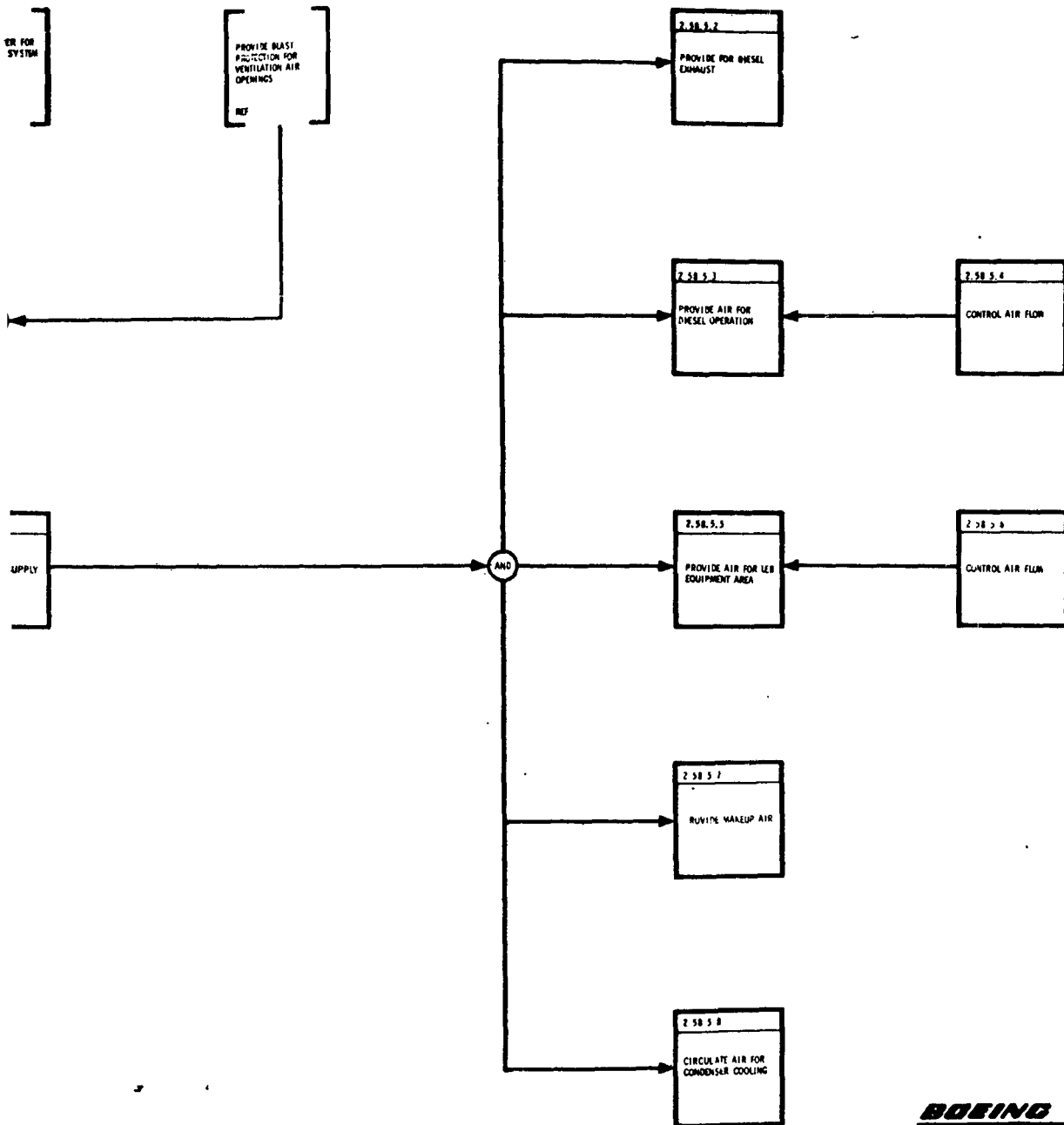
BOEING | NO D2-30044-1B

SEC. IV PAGE 28

DOING		DRAWING PREPARED BY:		HINUTAMAN WING XI	
REVISION	DATE	DOING		FLOW NAME: 1. NO. 3	
		AERO-SPACE DIVISION		PROVIDE ACCESS AND PHYSICAL PROTECTION FOR HANDLED	
				LAWRENCE	
				2. NO. 4 PROVIDE GAC	
				COMPARTMENT COLLING	
				SH OF FLOW NO. 2. NO. 3. 4	



1



2

BOEING NO D2-30044-1B
SEC. IV PAGE 29

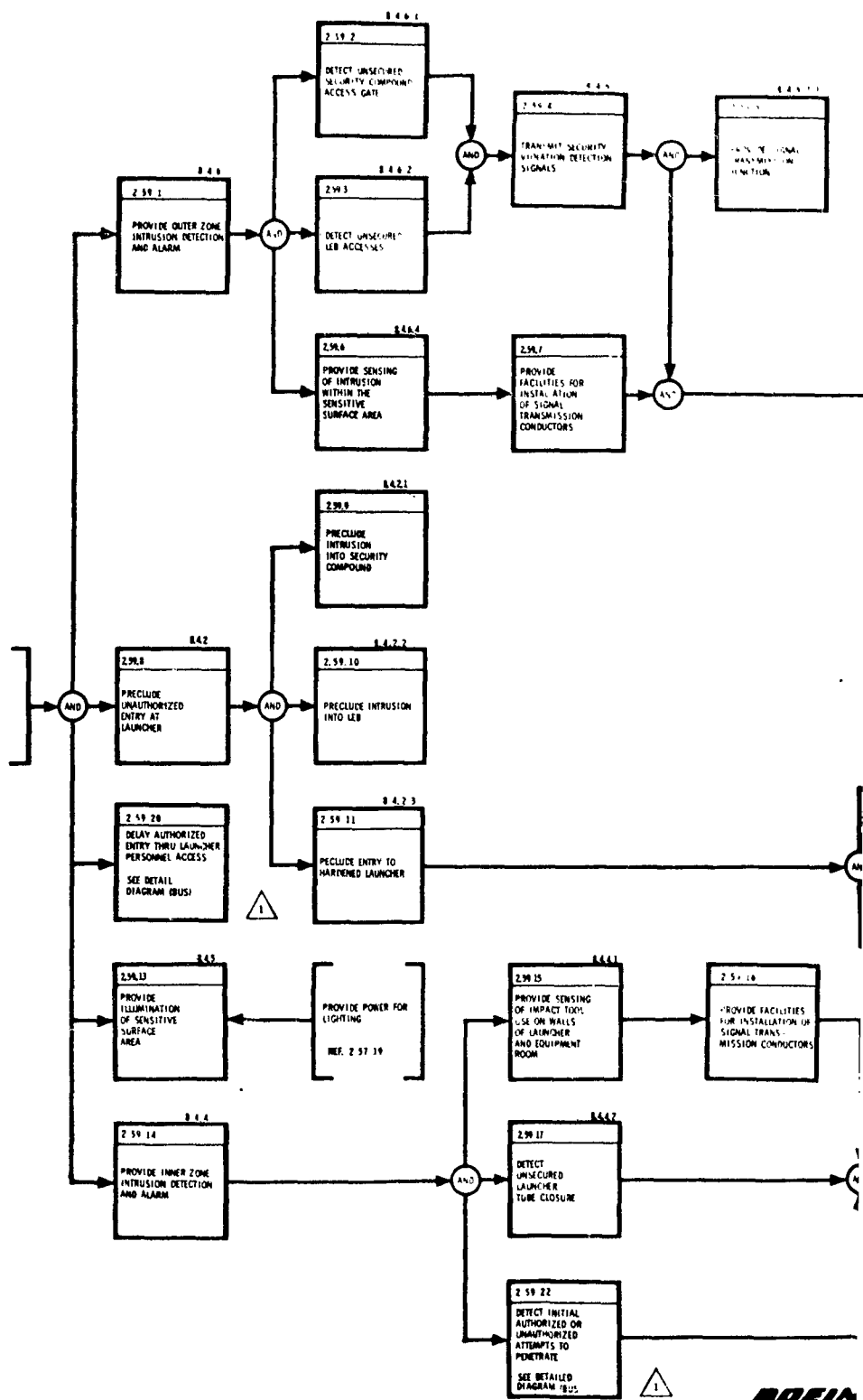
REV SYM C

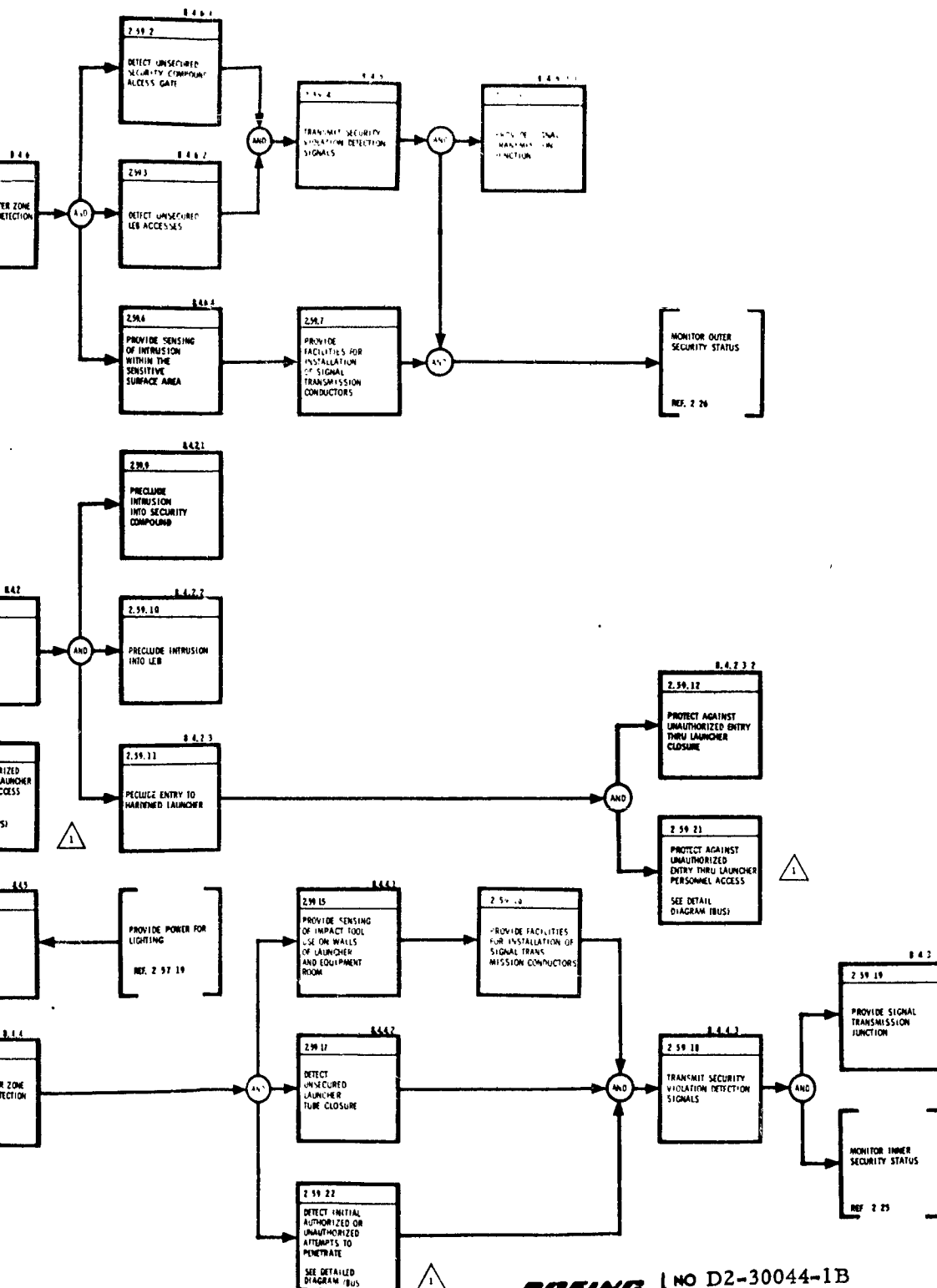
BOEING		DRAWING PREPARED BY:	MINUTEMAN WING XI
REVISION	DATE	THE RALPH M. PARSONS CO. 617 W. 7TH STREET LOS ANGELES 17, CALIFORNIA	FLOW NAME: PROVIDE AIR SUPPLY AND EXHAUST, IEB
		11 APRIL 1963	SH 1 OF 1 FLOW NO. 12-56

THE SIGNAL TRANSMISSION FUNCTIONS
FUNCTIONS 2.59.5 AND 2.59.10
SHALL FACILITATE INDEPENDENT TESTING
OF INNER AND OUTER ZONES

MAINTAIN
READINESS,
MONITOR
AND LAUNCH
REF. 2.0

1





2

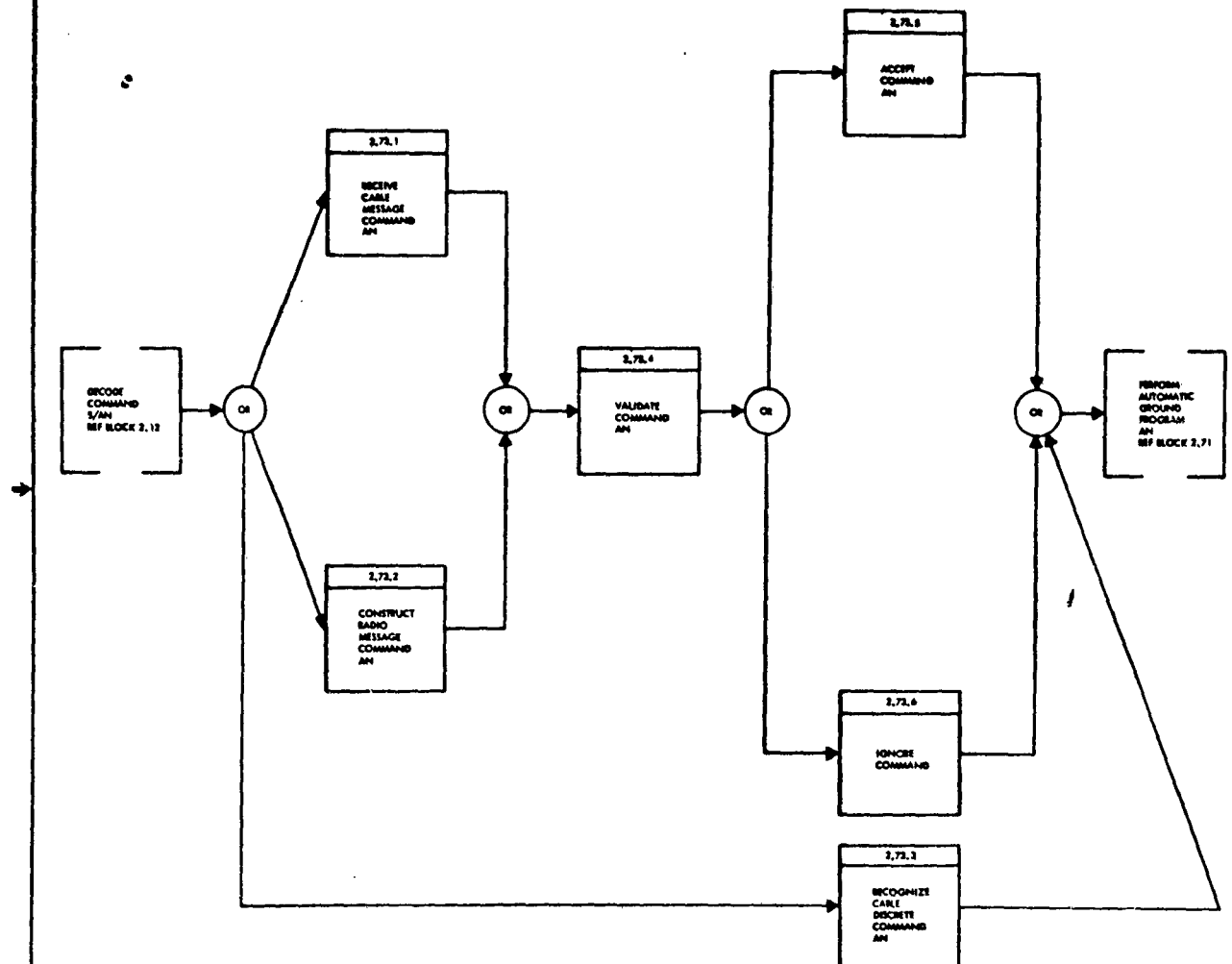
SEE DRAWING 3037-1001 (WS-133A)

REV SYM C

BOEING NO D2-30044-1B
SEC. IV PAGE 30

REVISION		DRAWING PREPARED BY	MINUTEMAN WING XI
DATE			
		THE RALPH W. PARSONS CO. 417 W. 7TH STREET LOS ANGELES 17, CALIFORNIA	FLOW NAME PROVIDE SECURITY 1F
		14 FEBRUARY 1963 APPROVED 11 APR 1963	SH 1 OF 1 FLOW NO. 2.37

DETAIL SECOND LEVEL FLOW
(BLOCK 273 PERFORM MESSAGE)
RECOGNITION



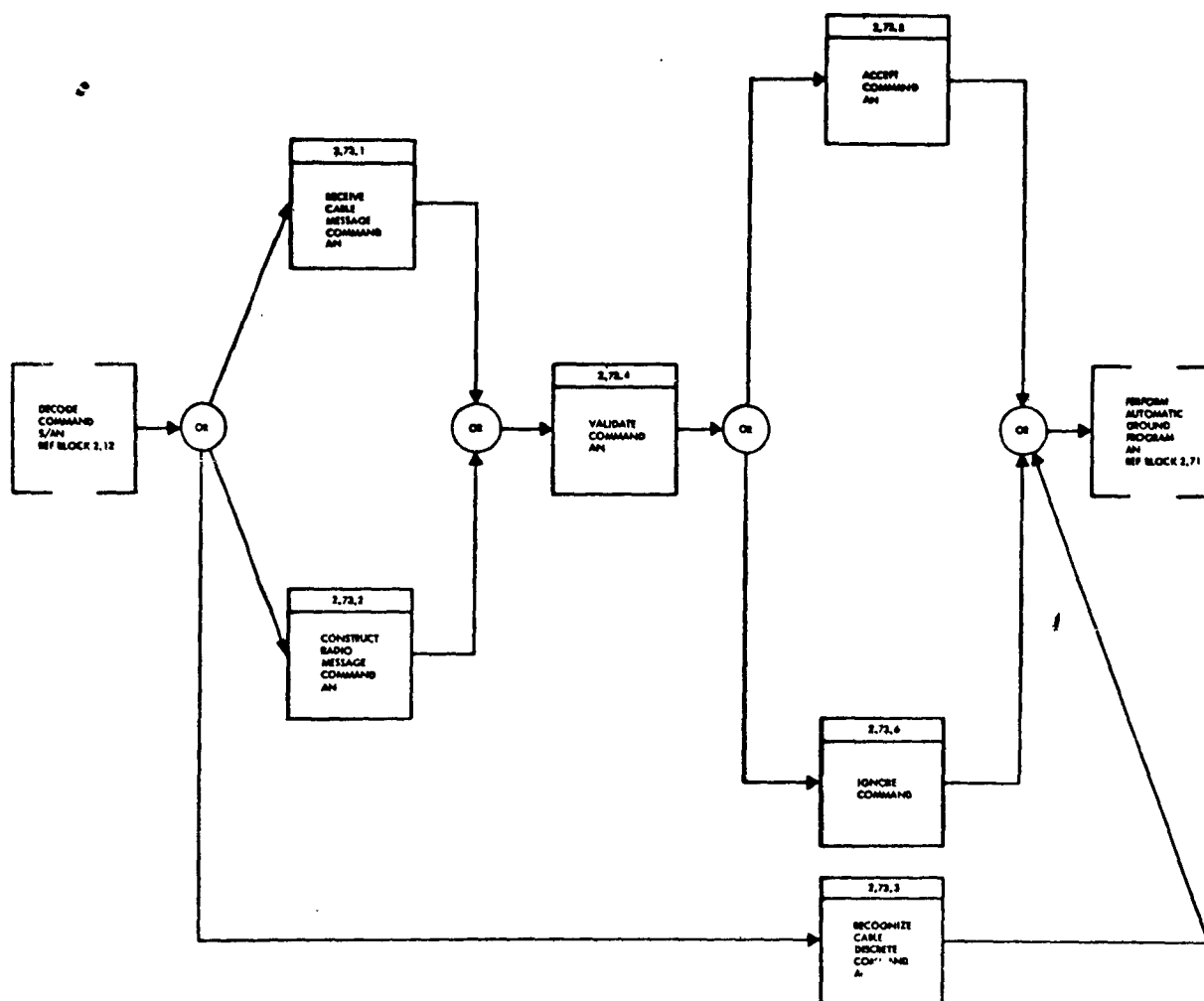
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REV SYM C

BOEING NO
SEC.

BOEING		DRAWING PR
REVISION	DATE	

DETAIL SECOND LEVEL FLOW
(BLOCK 273 PERFORM MESSAGE
RECOGNITION



REV SYM C

BOEING

NO D2-30044-1B

SEC.

IV

PAGE

31

BOEING

DRAWING PREPARED BY:

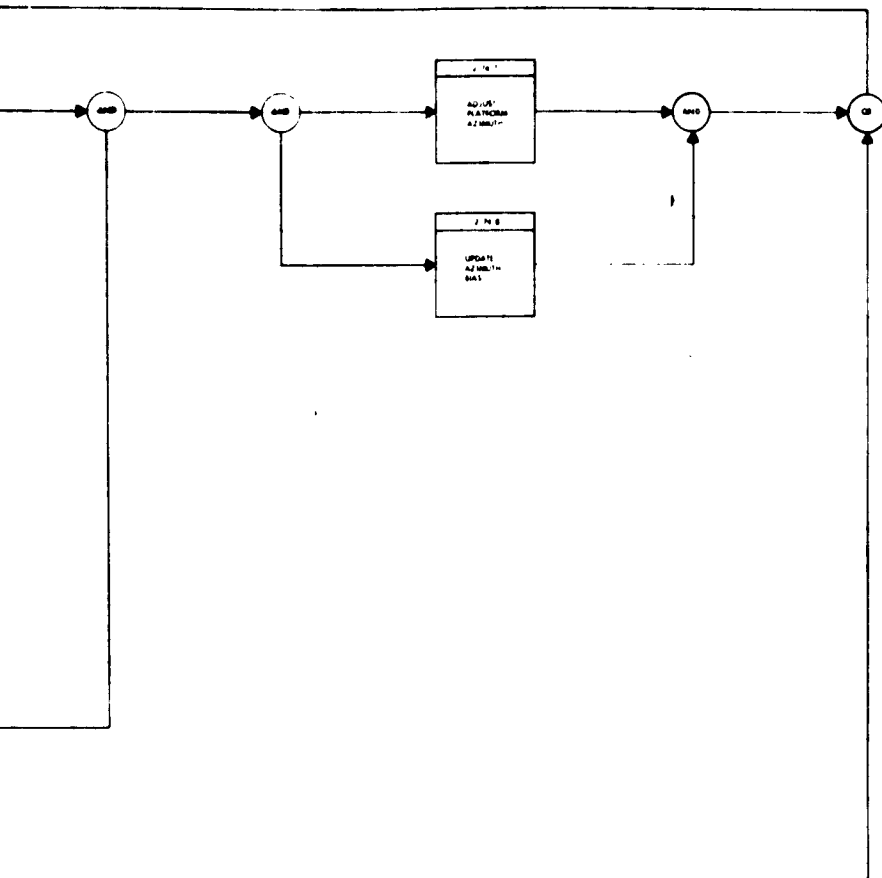
MINUTEMAN WING VI

REVISION	DATE



FLOW NAME:
BLOCK 273
PERFORM MESSAGE
RECOGNITION

SHEET OF FLOW NO.



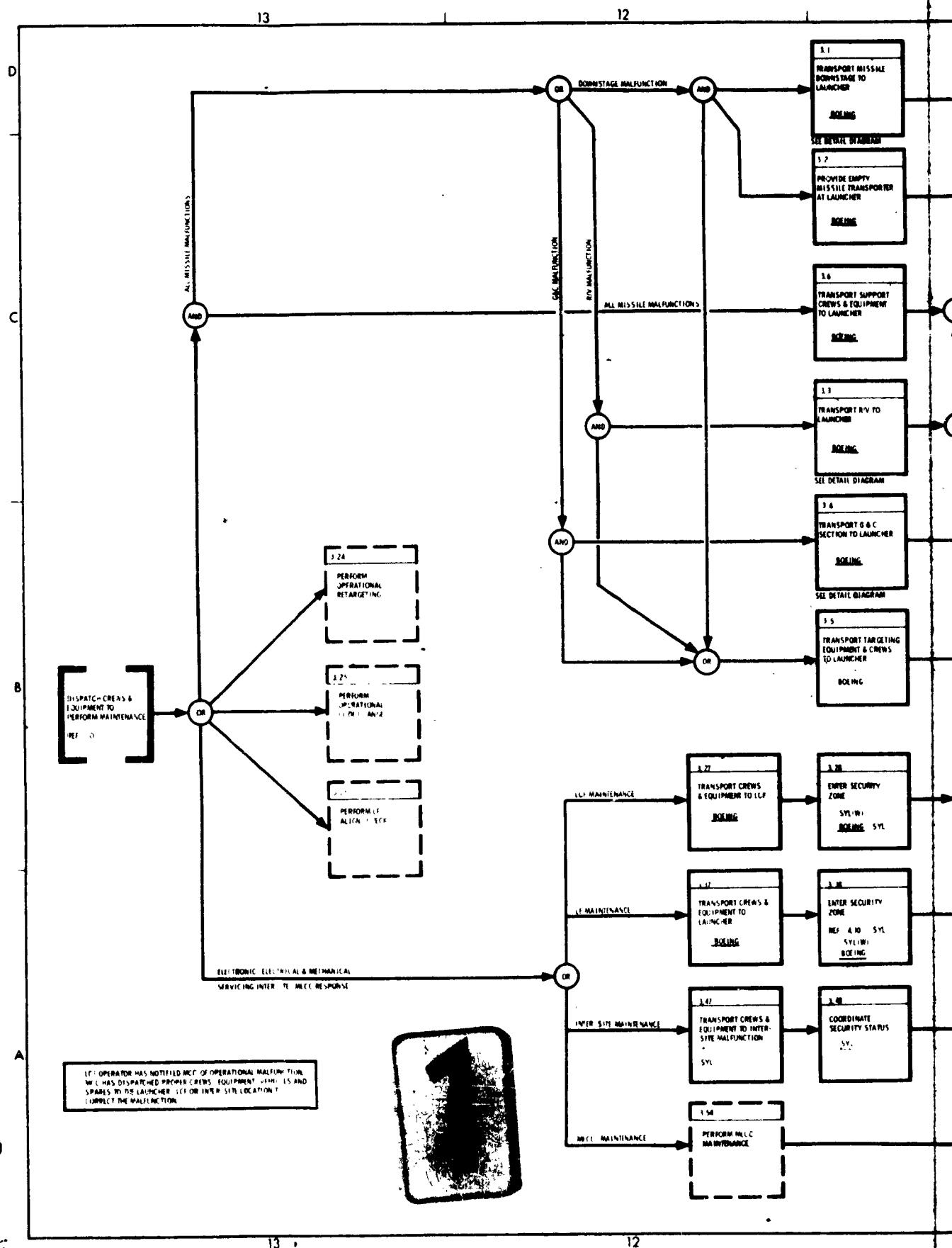
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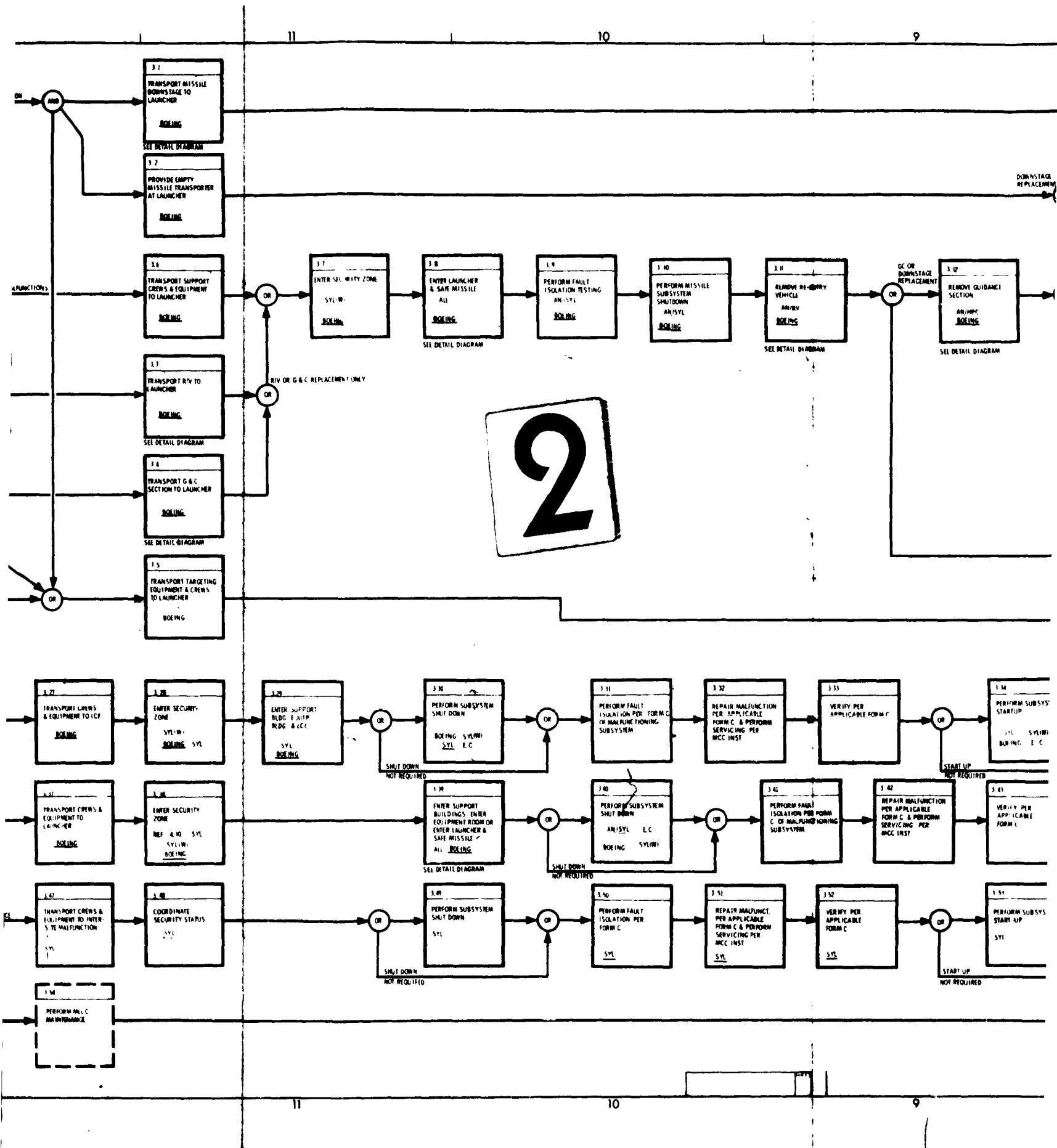
BLOCK 274
PROVIDE ALIGNMENT CAPABILITIES

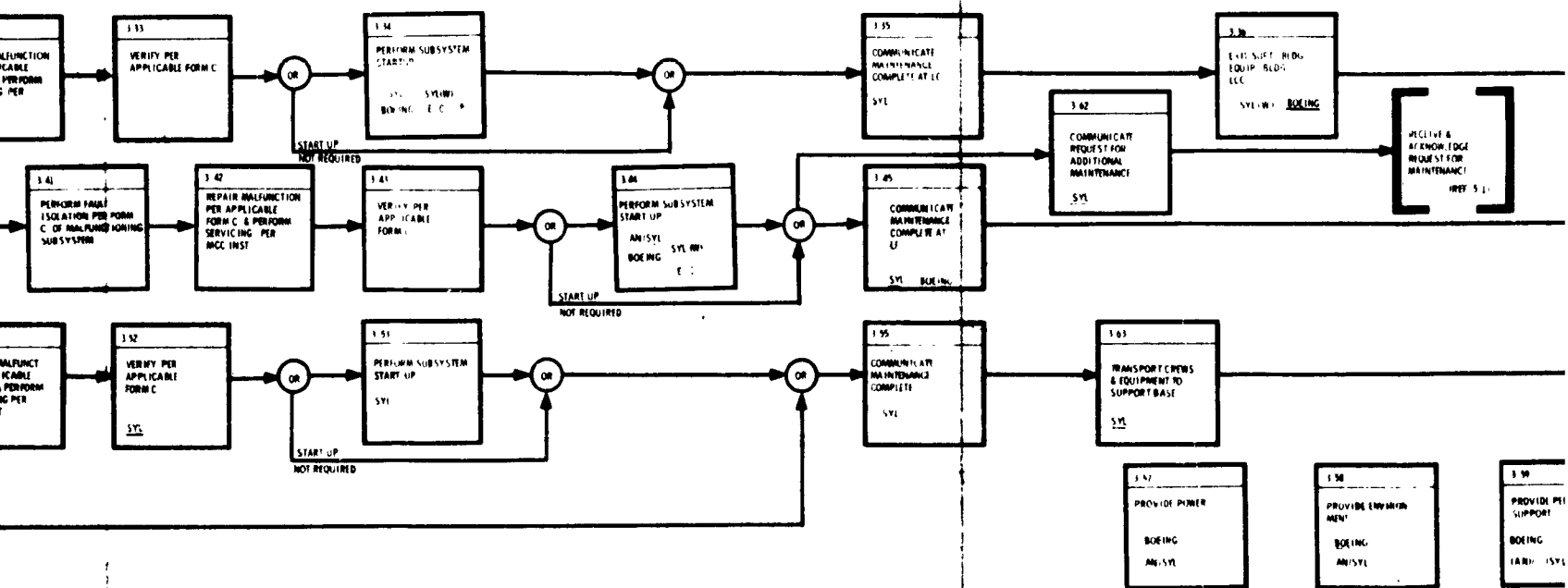
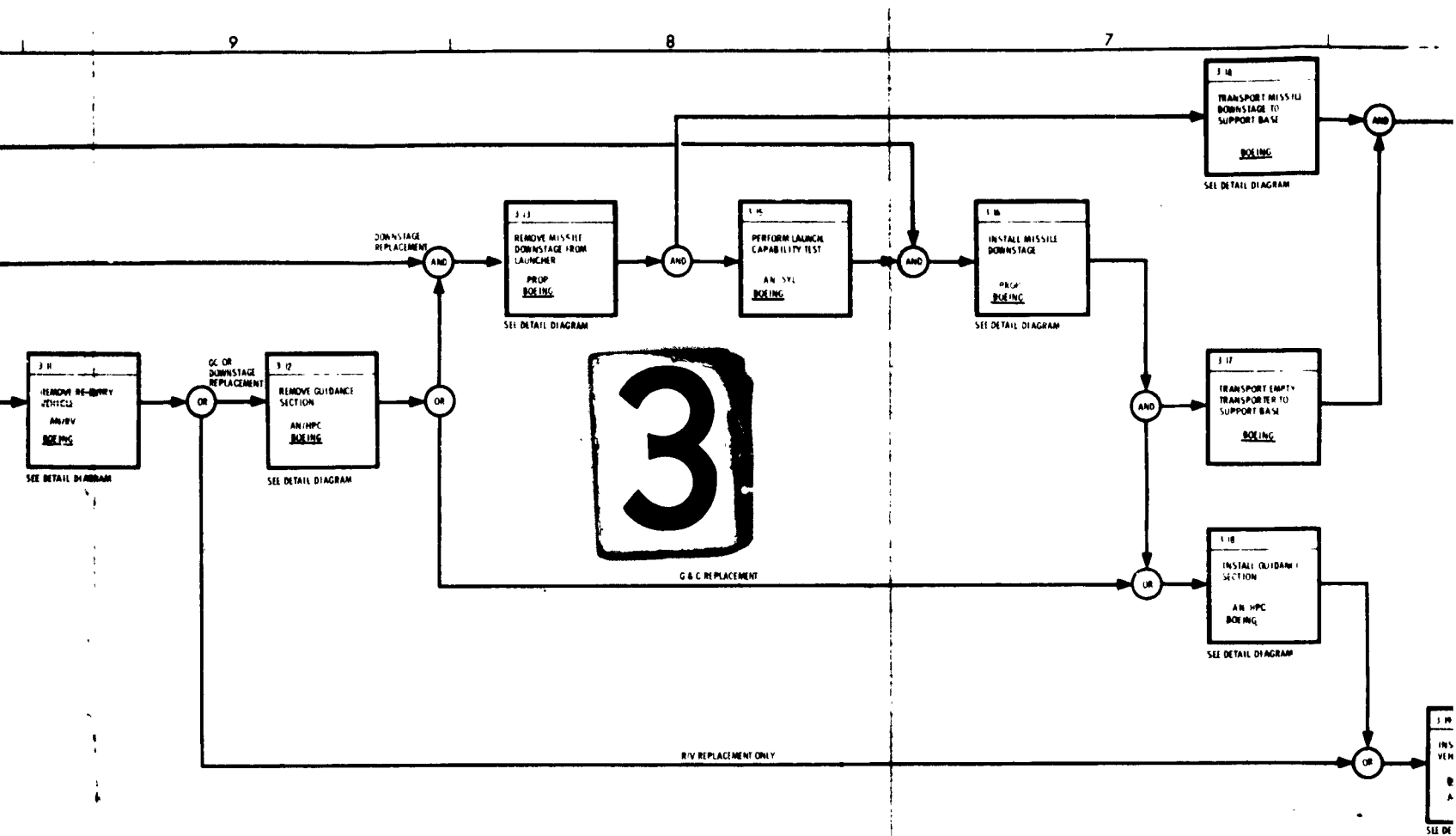
SEMS | NOD2-30044-1B
| SEC IV | PAGE 32

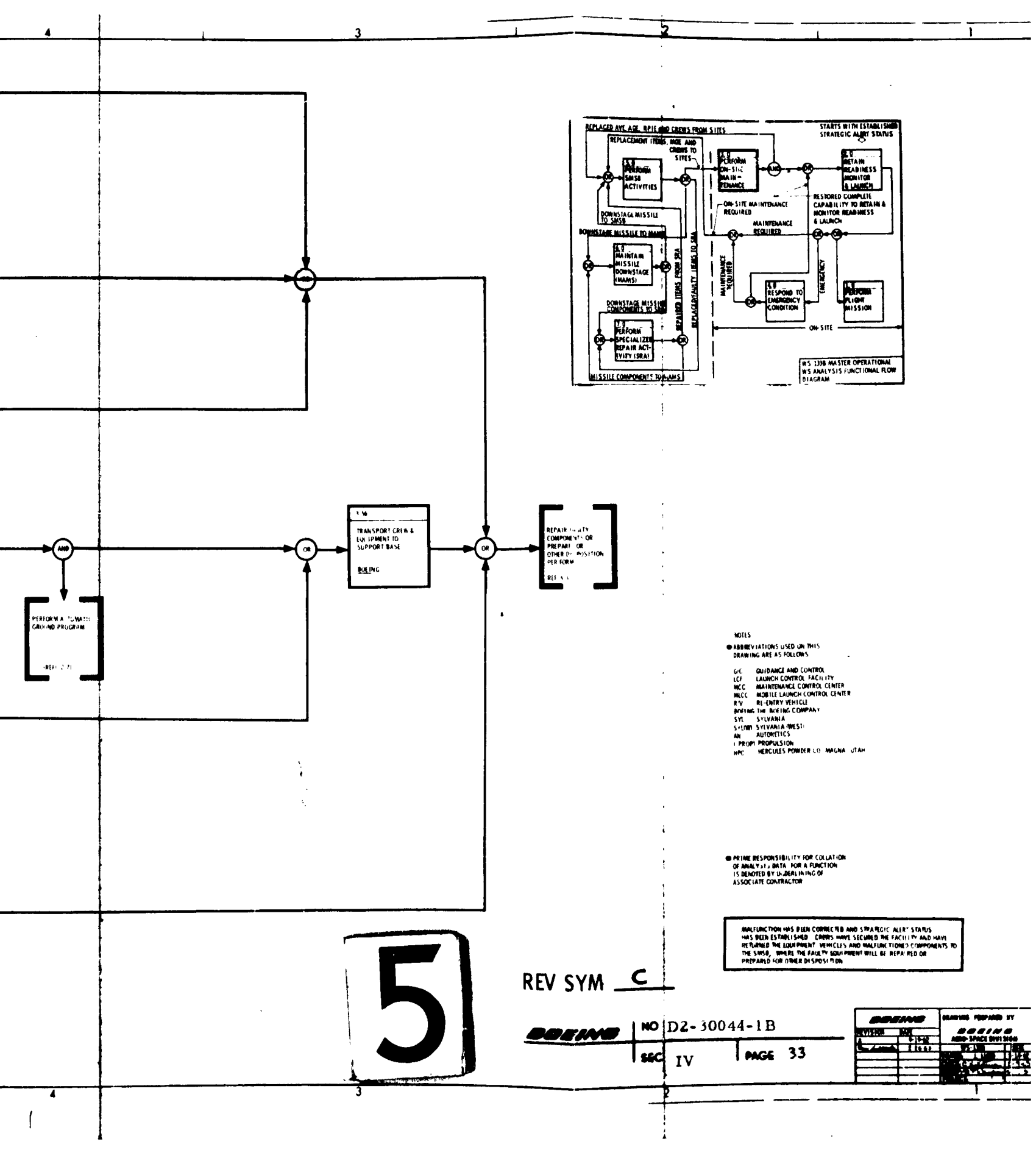
REV SYM C

SEMS		DRAWING PREPARED BY	MINUTEMAN WING 32
TYPE	DATE		BLOCK 274 PROVIDE ALIGNMENT CAPABILITIES
SHEET OF		FLOW NO	





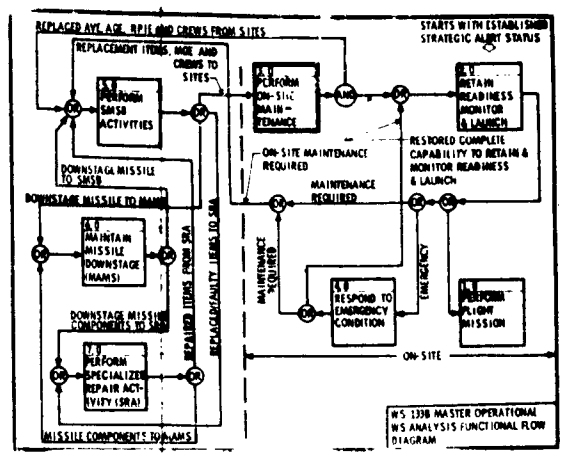




PERFORM A TO MAINT
GROUND PROGRAM
REF 2.71

TRANSPORT CREW &
EQUIPMENT TO
SUPPORT BASE
B-57B

REPAIR FACILITY
COMPONENTS OR
PREPARE FOR
OTHER DISPOSITION
REF 4.1



NOTES
● ABBREVIATIONS USED ON THIS
DRAWING ARE AS FOLLOWS

GIC GUIDANCE AND CONTROL
LCF LAUNCH CONTROL FACILITY
MCC MAINTENANCE CONTROL CENTER
MLCC MOBILE LAUNCH CONTROL CENTER
RV RE-ENTRY VEHICLE
B-57B THE B-57B COMPANY
SYL SYLVANIA
SYLW SYLVANIA WEST
AN AUTONICS
P PROPYL PROPULSION
HPC HERCULES POWDER CO. MAGNAN, UTAH

● PRIME RESPONSIBILITY FOR COLATION
OF ANALYSIS DATA FOR A FUNCTION
IS DENOTED BY UNDERLINING OF
ASSOCIATE CONTRACTOR

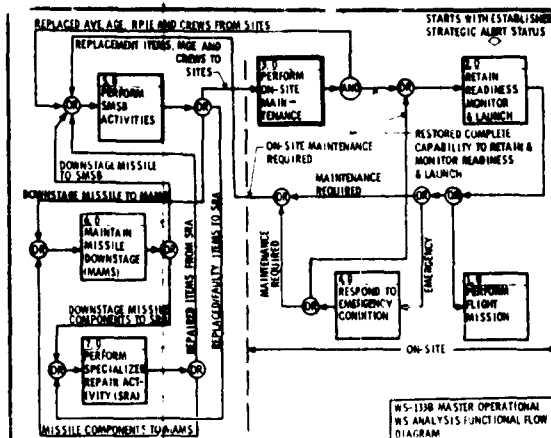
MAINTENANCE HAS BEEN CORRECTED AND STRATEGIC ALERT STATUS
HAS BEEN ESTABLISHED. CREWS HAVE SECURED THE FACILITY AND HAVE
RETURNED THE EQUIPMENT, VEHICLES AND MAINTENANCE COMPONENTS TO
THE SRSB, WHERE THE FAULTY EQUIPMENT WILL BE REPAIRED OR
PREPARED FOR OTHER DISPOSITION.

5

REV SYM C

NO D2-30044-1B
SEC IV PAGE 33

BOEING		DRAWING PREPARED BY	
REVISION	DATE	BOEING	DATE
1	10-1-67	10-1-67	10-1-67
2	10-1-67	10-1-67	10-1-67
3	10-1-67	10-1-67	10-1-67
4	10-1-67	10-1-67	10-1-67
5	10-1-67	10-1-67	10-1-67
6	10-1-67	10-1-67	10-1-67
7	10-1-67	10-1-67	10-1-67
8	10-1-67	10-1-67	10-1-67
9	10-1-67	10-1-67	10-1-67
10	10-1-67	10-1-67	10-1-67



3.56
TRANSPORT CREW &
EQUIPMENT TO
SUPPORT BAY
BOXING

REPAIR CAPABILITY
COMPONENTS OR
PREPARE FOR
OTHER DISPOSITION
PER FORM
REV. 5.1

NOTES

• ABBREVIATIONS USED ON THIS
DRAWING ARE AS FOLLOWS:

G/C GUIDANCE AND CONTROL
LCF LAUNCH CONTROL FACILITY
MCC MAINTENANCE CONTROL CENTER
MLCC MOBILE LAUNCH CONTROL CENTER
R/V RE-ENTRY VEHICLE
BREFING THE BOWING COMPANY
SYL SYLVANIA
S-FLIGHT SYLVANIA (WEST)
AN AUTORETICS
PROM PROPULSION
HPC MERCURUS POWDER CO. MAGNA, UTAH

• PRIME RESPONSIBILITY FOR COLATION
OF ANALYSIS DATA FOR A FUNCTION
IS DENOTED BY UNDERLINING OF
ASSOCIATE CONTRACTOR

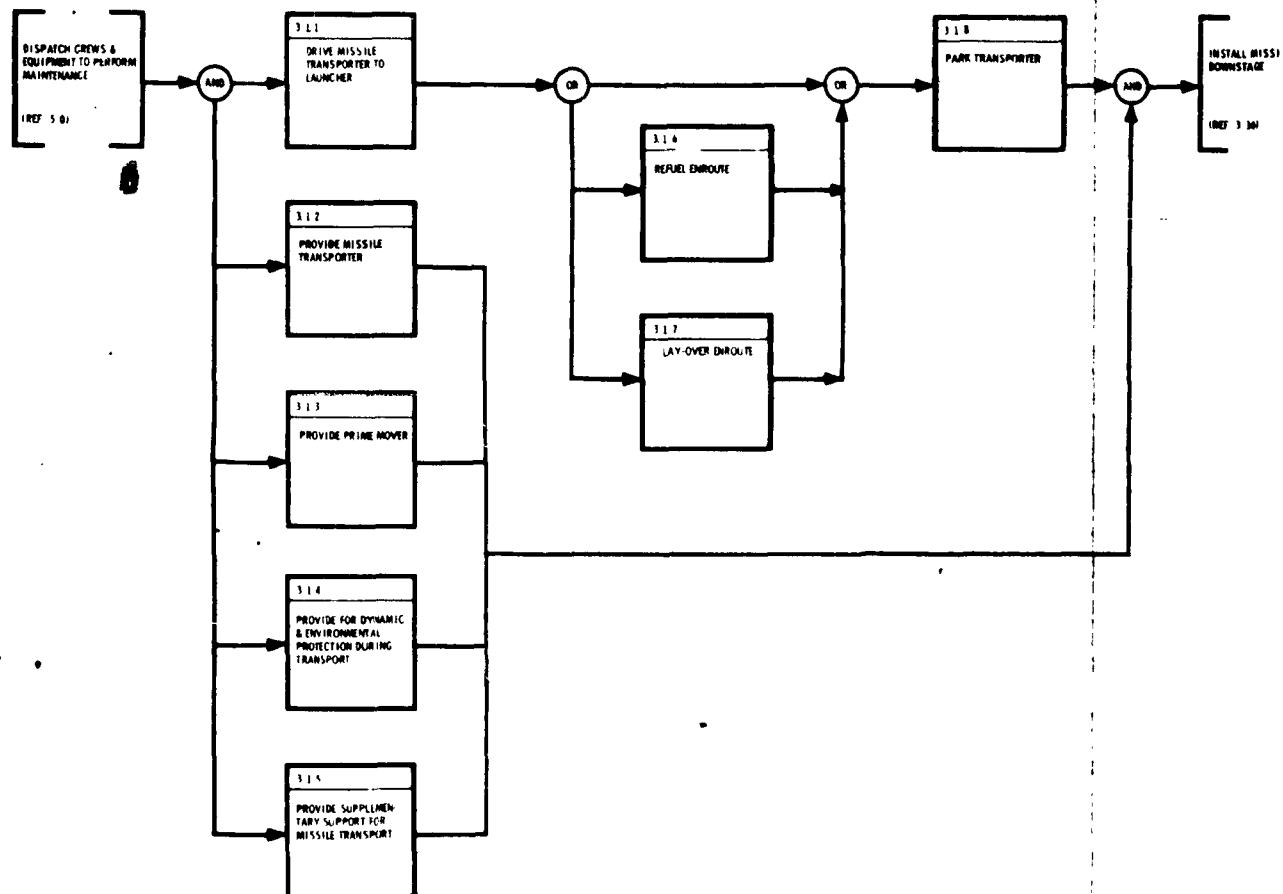
MAINTENANCE HAS BEEN CORRECTED AND STRATEGIC ALERT STATUS
HAS BEEN ESTABLISHED. CREWS HAVE SECURED THE FACILITY AND HAVE
RETURNED THE EQUIPMENT, VEHICLES AND MAINTENANCED COMPONENTS TO
THE SWSB, WHERE THE FAULTY EQUIPMENT WILL BE REPAIRED OR
PREPARED FOR OTHER DISPOSITION.

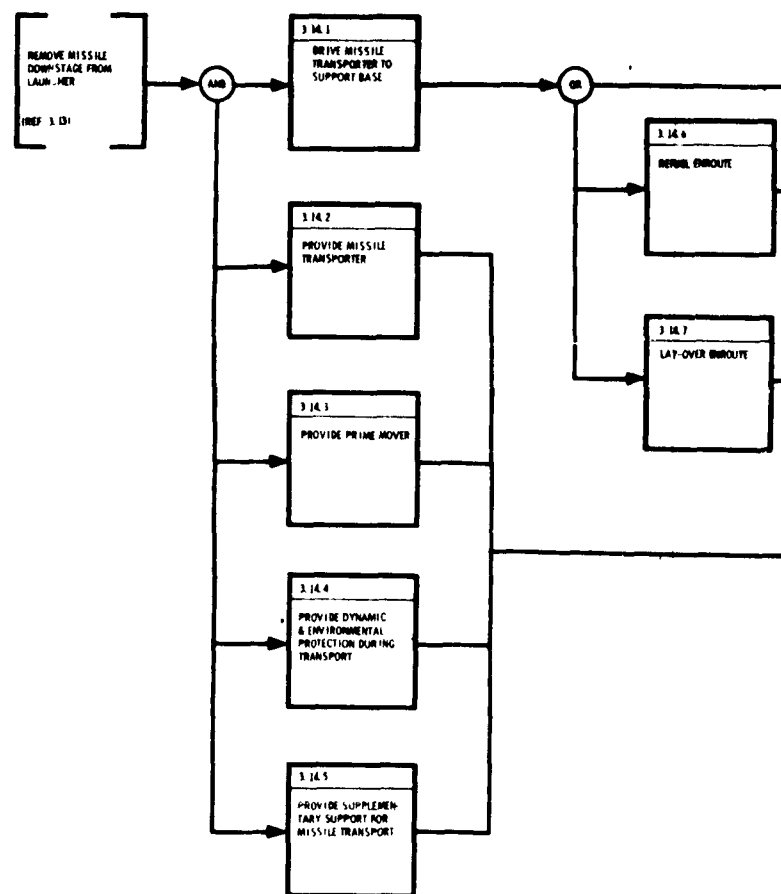
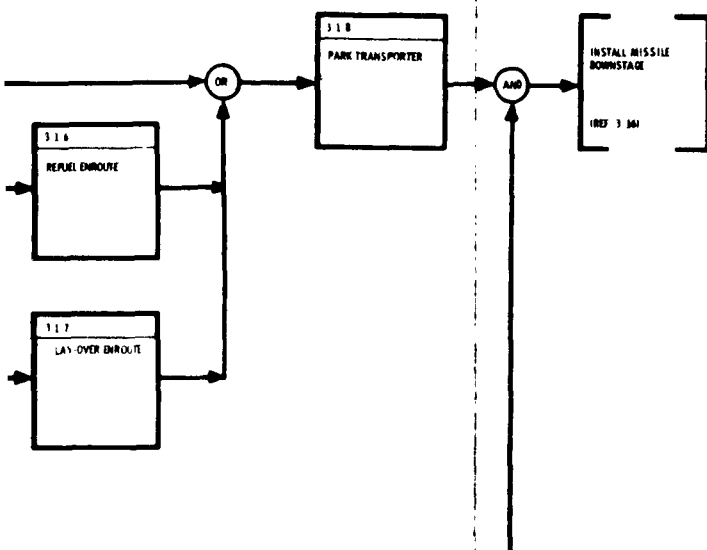
REV SYM C

BOEING NO D2-30044-1B

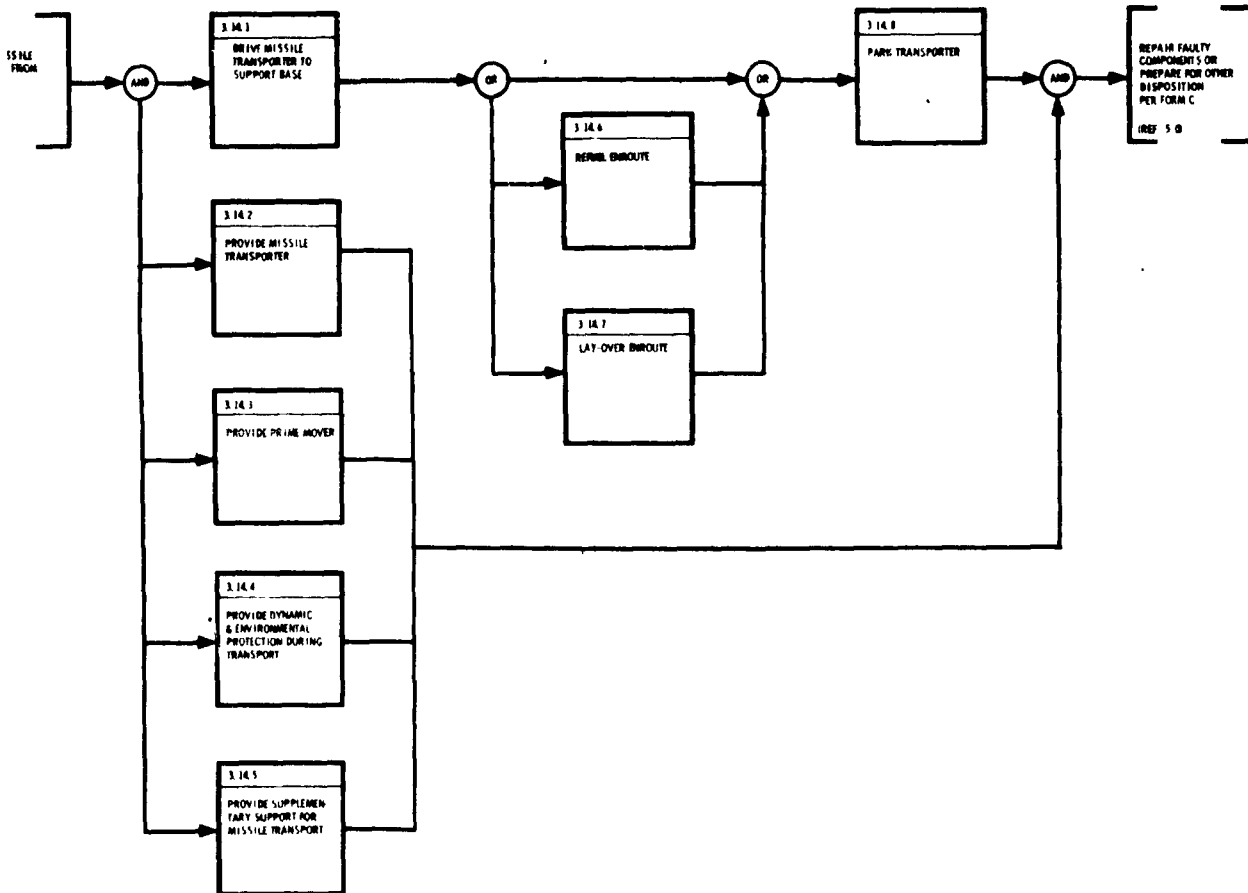
SEC IV PAGE 33

BOEING		DRAWING PREPARED BY		MINUTEMAN WING 32	
REVISION	DATE	BY	DATE	BY	DATE
1	1/1/78	1	1/1/78	1	1/1/78
2	1/1/78	2	1/1/78	2	1/1/78
3	1/1/78	3	1/1/78	3	1/1/78
4	1/1/78	4	1/1/78	4	1/1/78
5	1/1/78	5	1/1/78	5	1/1/78
6	1/1/78	6	1/1/78	6	1/1/78
7	1/1/78	7	1/1/78	7	1/1/78
8	1/1/78	8	1/1/78	8	1/1/78
9	1/1/78	9	1/1/78	9	1/1/78
10	1/1/78	10	1/1/78	10	1/1/78
FLIGHT NAME		PERFORM ON SITE		MAINTENANCE	
ON OF		FLOW NO. 3.0			





2



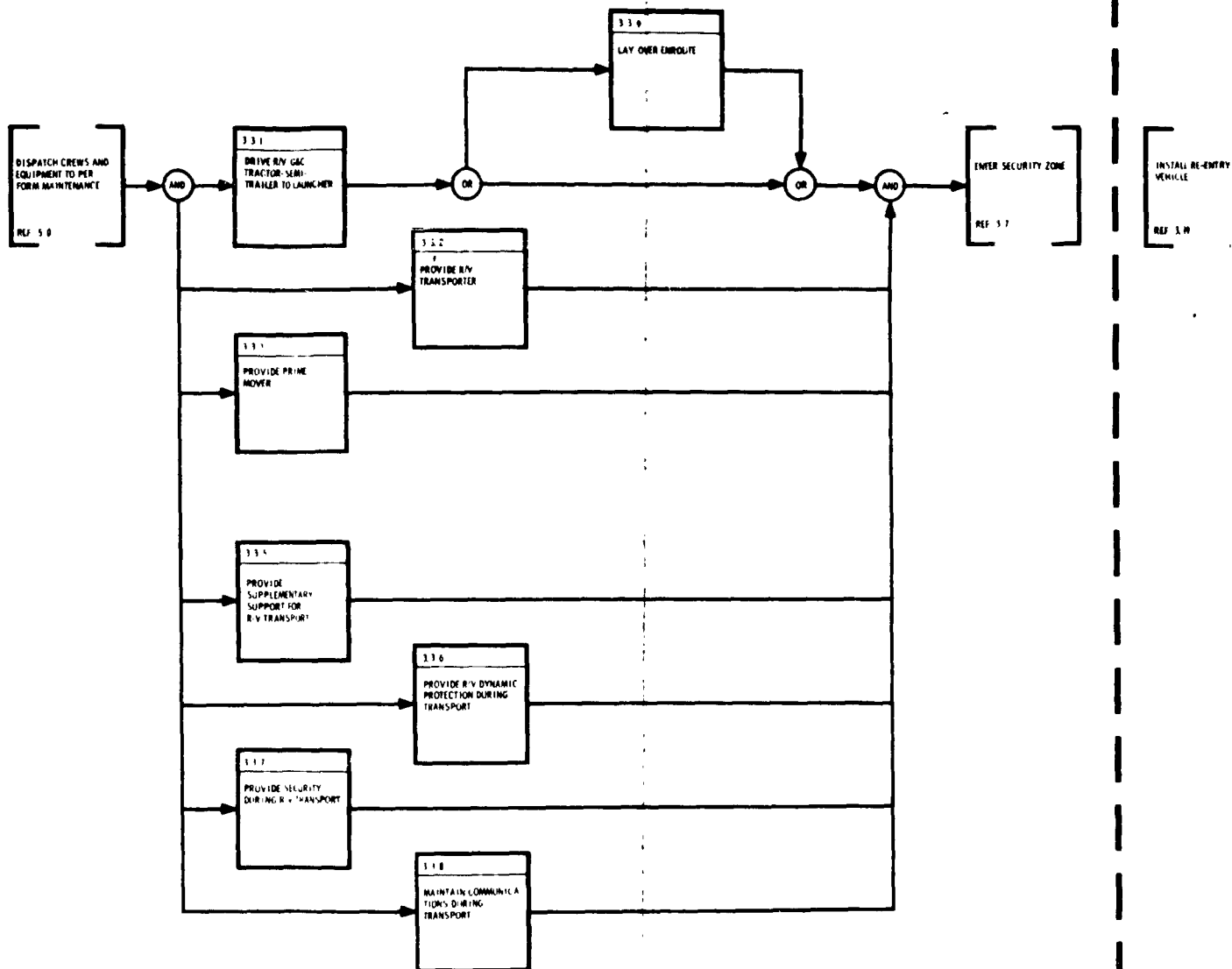
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REV SYM C

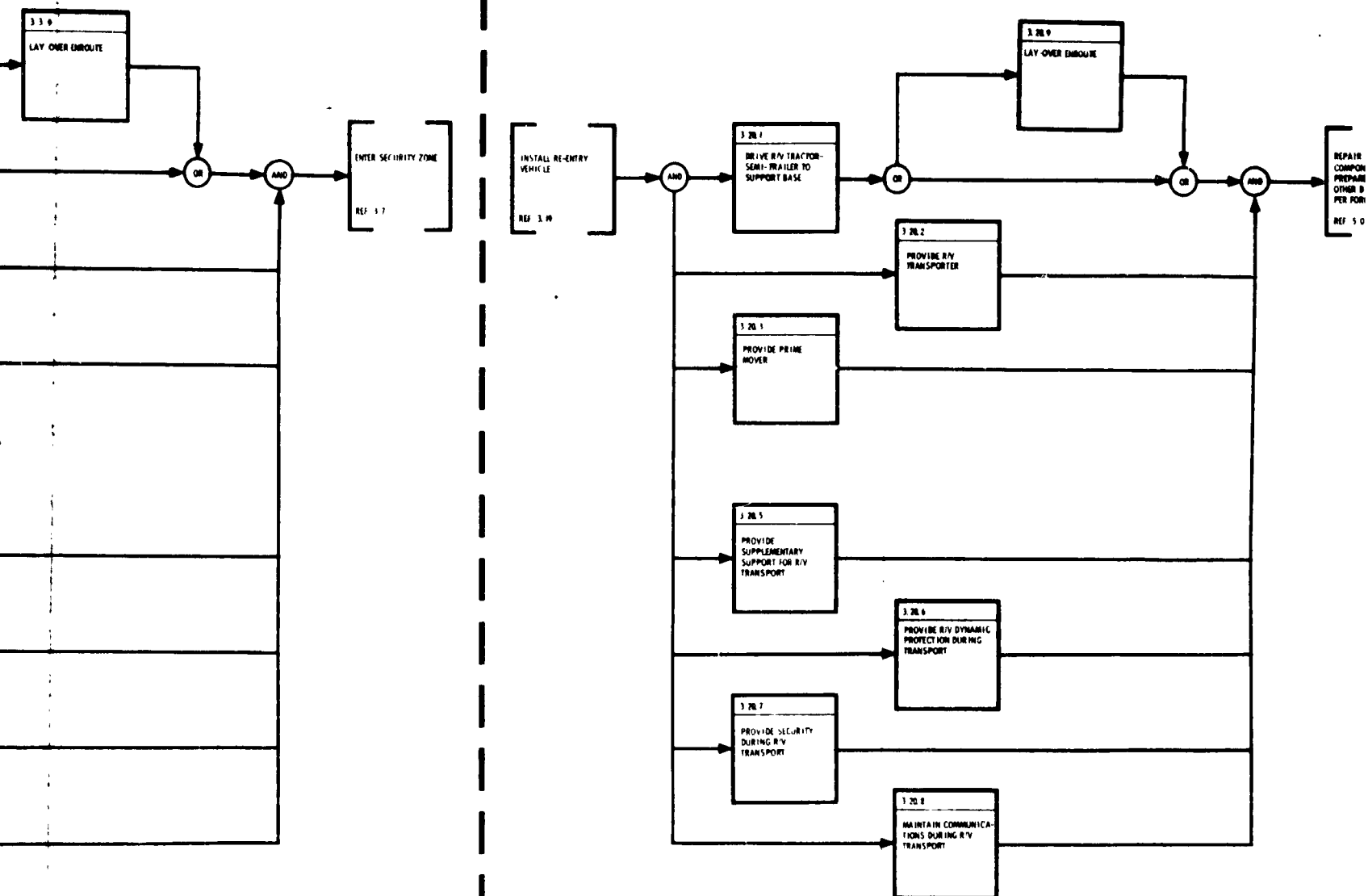
BOEING NO D2-30044-1B3

SEC IV PAGE 34

BOEING		DRAWING PREPARED BY		MINUTEMAN WING XI	
REVISION	DATE	BOEING		FLOW NAME	
		AERO-SPACE DIVISION		TRANSPORT MISSILE DOWNS EDGE	
			REV	TO LAUNCHES (3.1)	
				TRANSPORT MISSILE DOWNS EDGE	
			BY	IN SUPPORT BASE (3.1)	
			DATE	SH OF FLOW NO. 31.8.34	



1

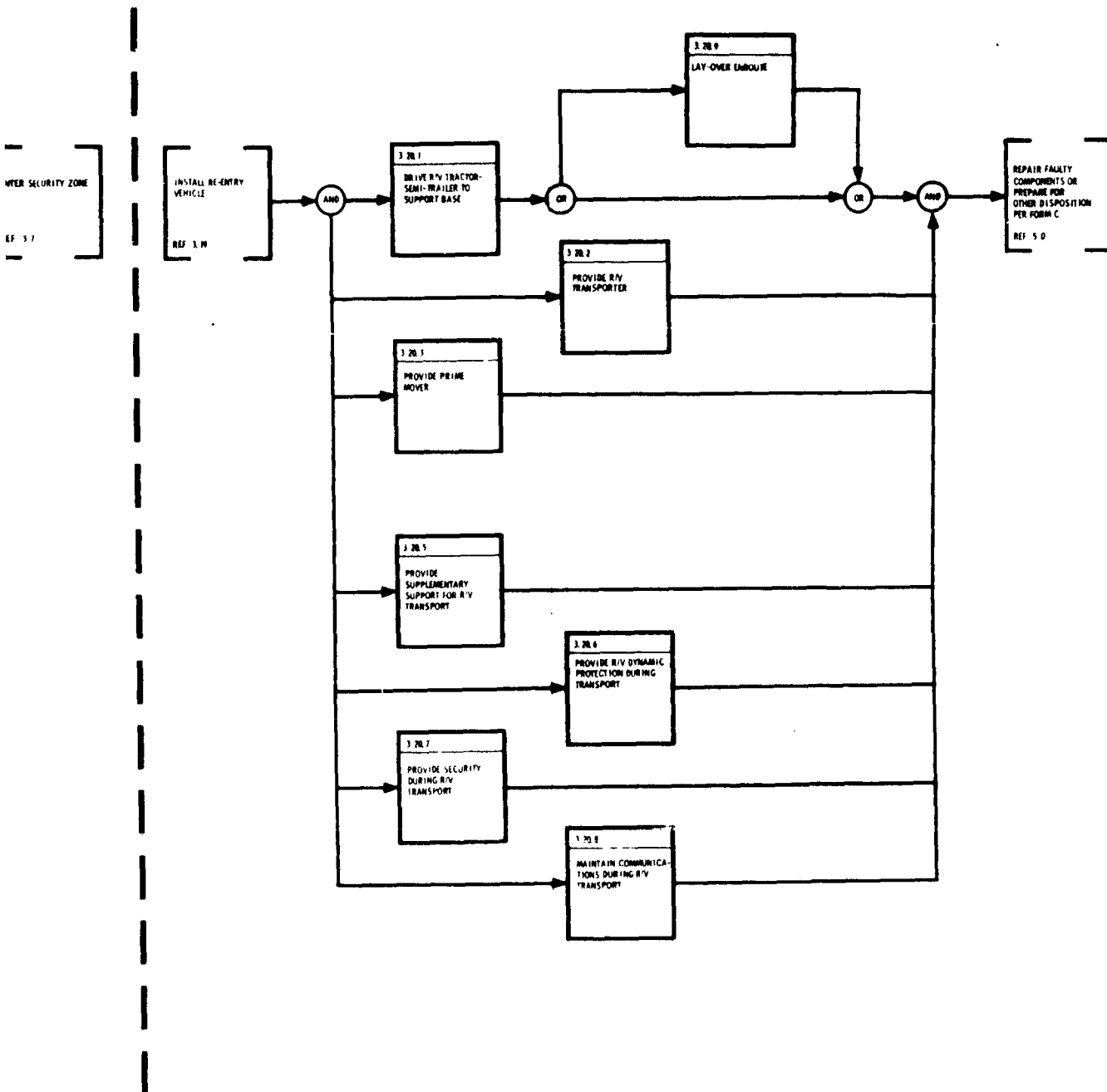


2

REV SYM _C_

BOEING

REV	SYN	DATE



3

REV SYM C

BOEING

NO D2-30044-1B

SEC. IV

PAGE 35

BOEING		DRAWING PREPARED BY		MINUTEMAN WING XI	
REVISION	DATE	BOEING	ALDO SPALDIN	FLOW NAME	TRANSPORT R/V TO LAUNCHER IS
			DAW	AND	TRANSPORT R/V TO SUPPORT BASE
		DRAWING			1.20
		CHECK			
		APPROVE			
		PROJECT			
				SH CH	FLOW NO. 3.20.3.20

DISPATCH CREWS AND
EQUIPMENT TO PER-
FORM MAINTENANCE
REF 3.0

AND

3.4.1
DRIVE GAC
TRANSPORTER TO
LAUNCHER

OR

3.4.8
LAY-OVER ENROUTE

OR

3.4.2
PROVIDE GAC
TRANSPORT

AND

ENTER SECURITY ZONE
REF 3.7

INSTALL
RE-ENTRY
VEHICLE
REF 3.10

AND

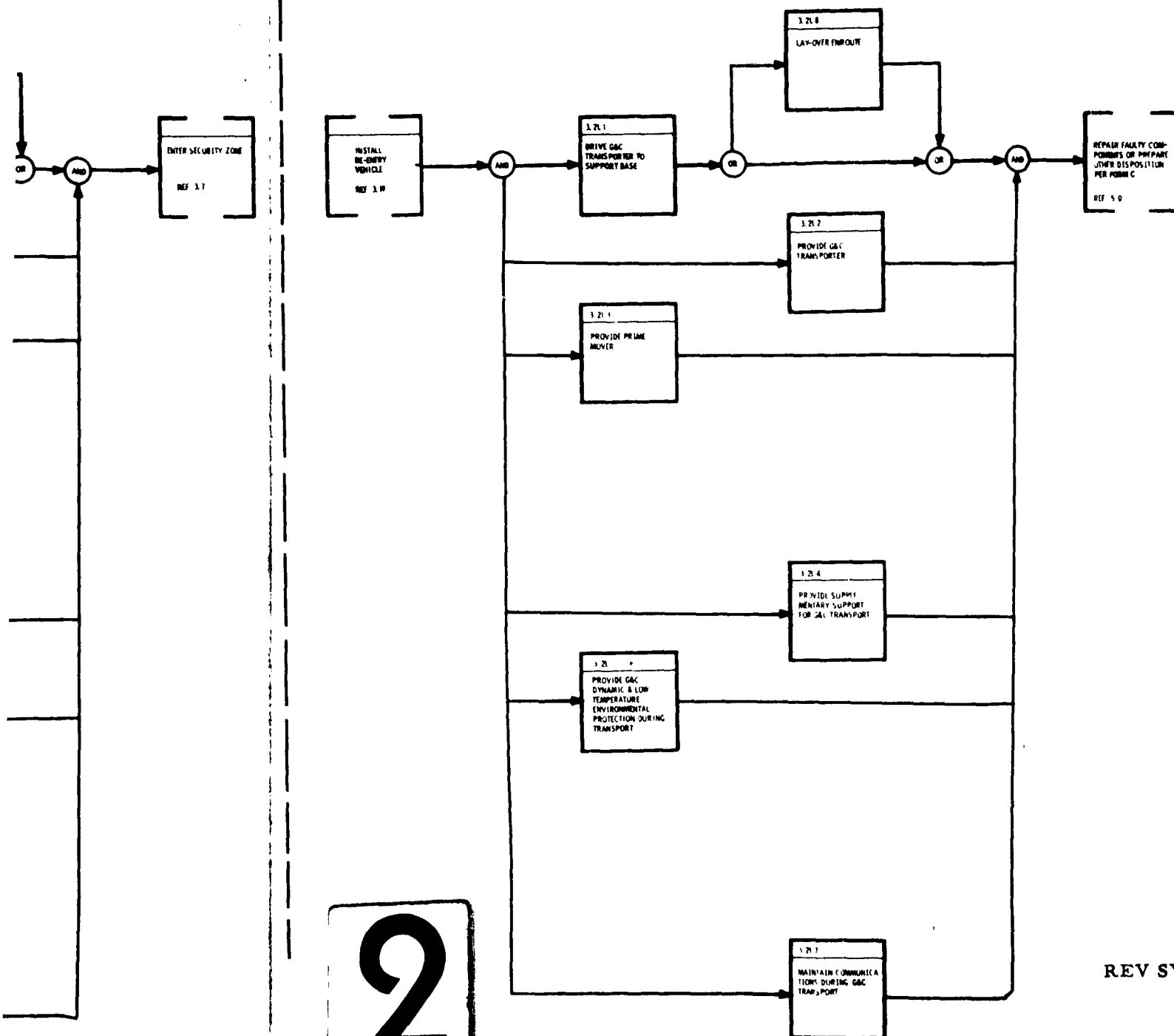
3.4.3
PROVIDE PRIME
MOVER

3.4.4
PROVIDE SUPPLEMEN-
TARY SUPPORT FOR
GAC TRANSPORT

3.4.5
PROVIDE GAC
DYNAMIC
ENVIRONMENTAL
PROTECTION

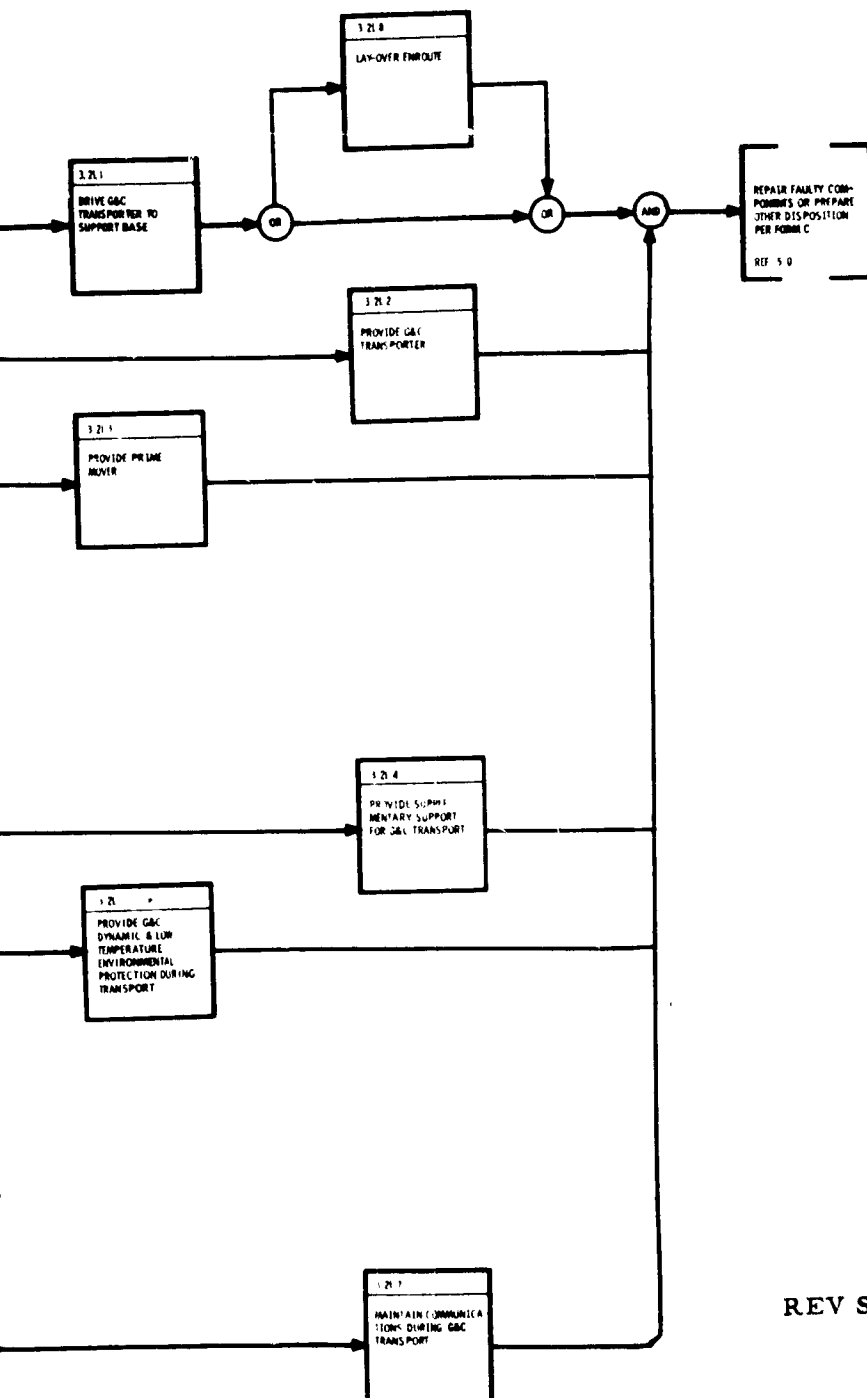
3.4.7
MAINTAIN COMMUNICA-
TION DURING GAC
TRANSPORT

1



2

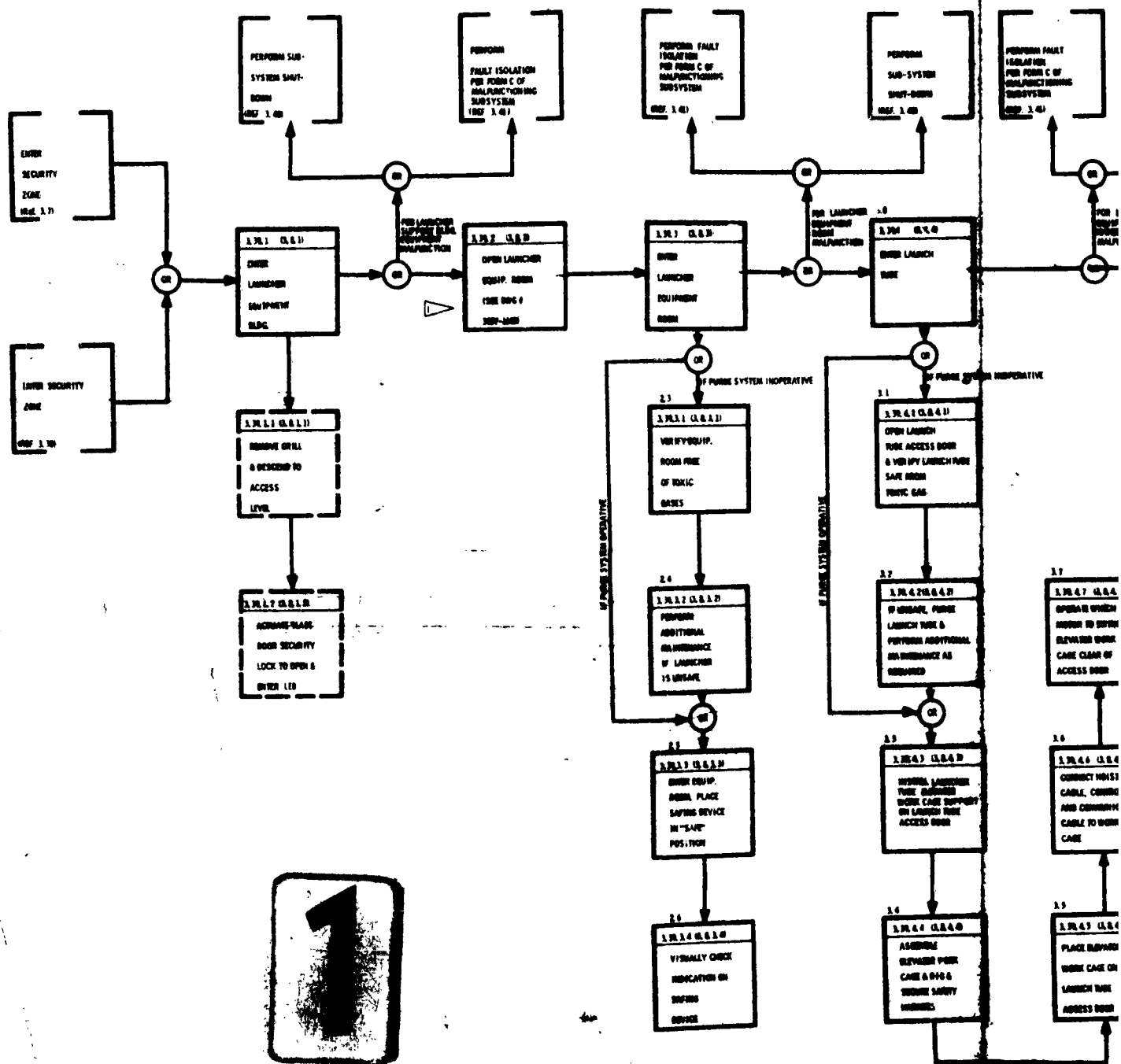
REV SYM C



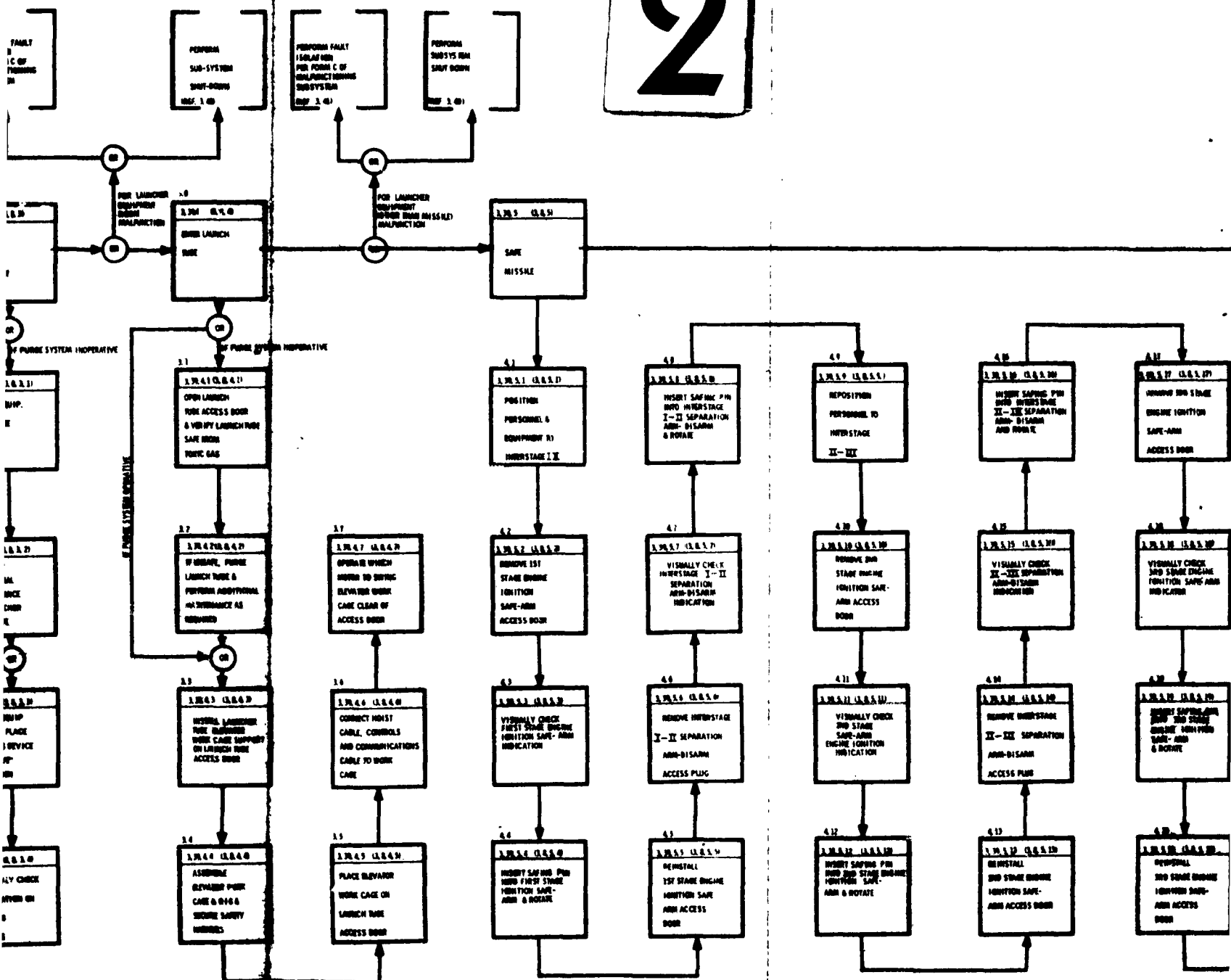
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REV SYM C

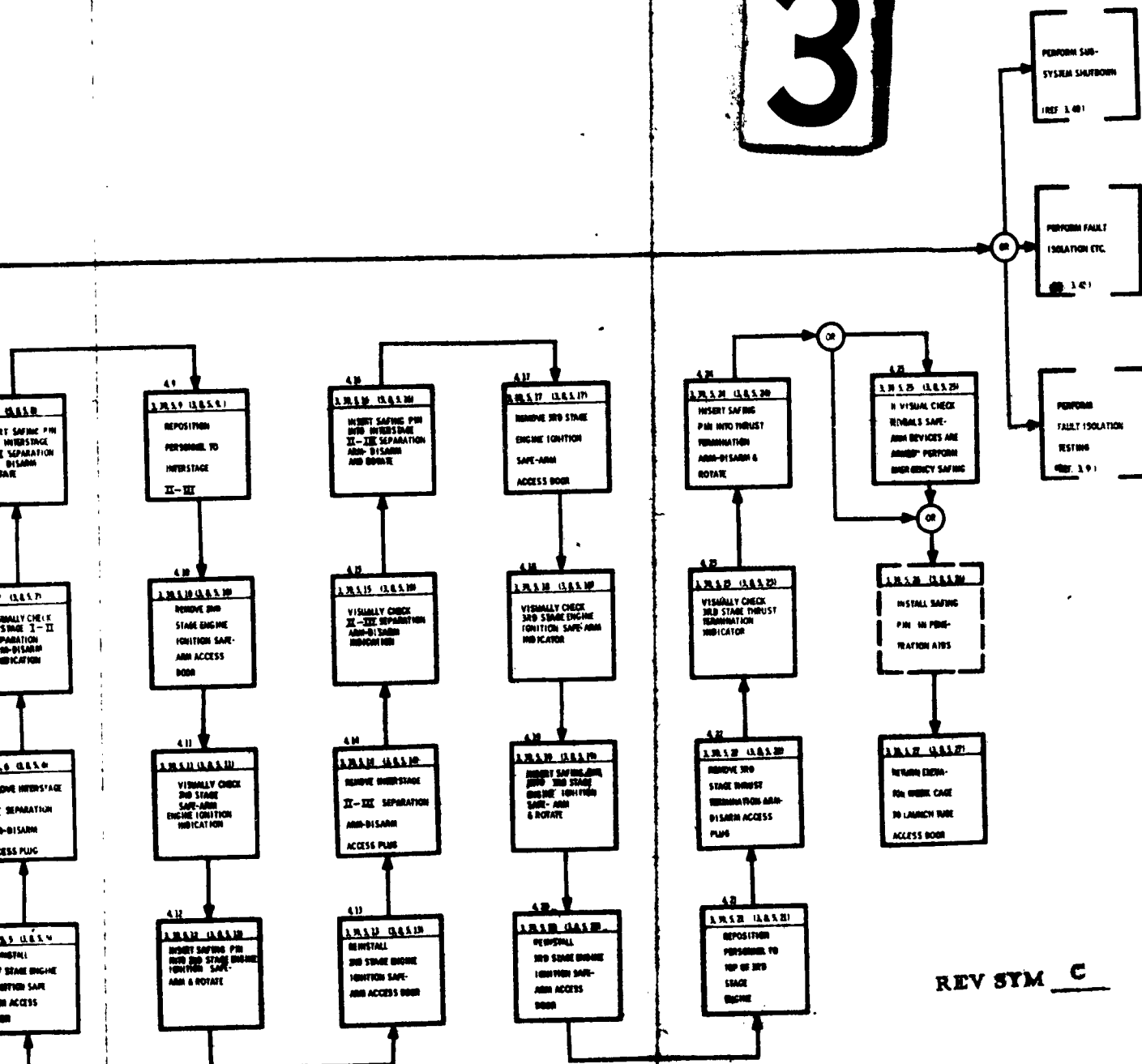
BOEING		NO D2-30044-173
SEC. IV		PAGE 36
DRAWING PREPARED BY BOEING AERO-SPACE DIVISION		FLOW NAME: TRANSPORT GSC SECTION TO LAUNCHER (3.0) TRANSPORT GSC TO SUPPORT BASE (1.21)
REVISION	DATE	SH. OF FLOW NO. 14632



2



3



NOTE

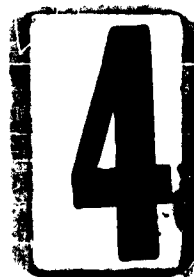
- H & B MAINTENANCE FOR LAUNCHER EQUIPMENT IN PARSONS REPORT 600-21
- FUNCTION NUMBERS 600
- THIS DRAWING IS NOT A WING 1 FUNCTIONAL PLAN

REV SYM C

NO E

SEC 1

DATE	BY	CHKD	APPD



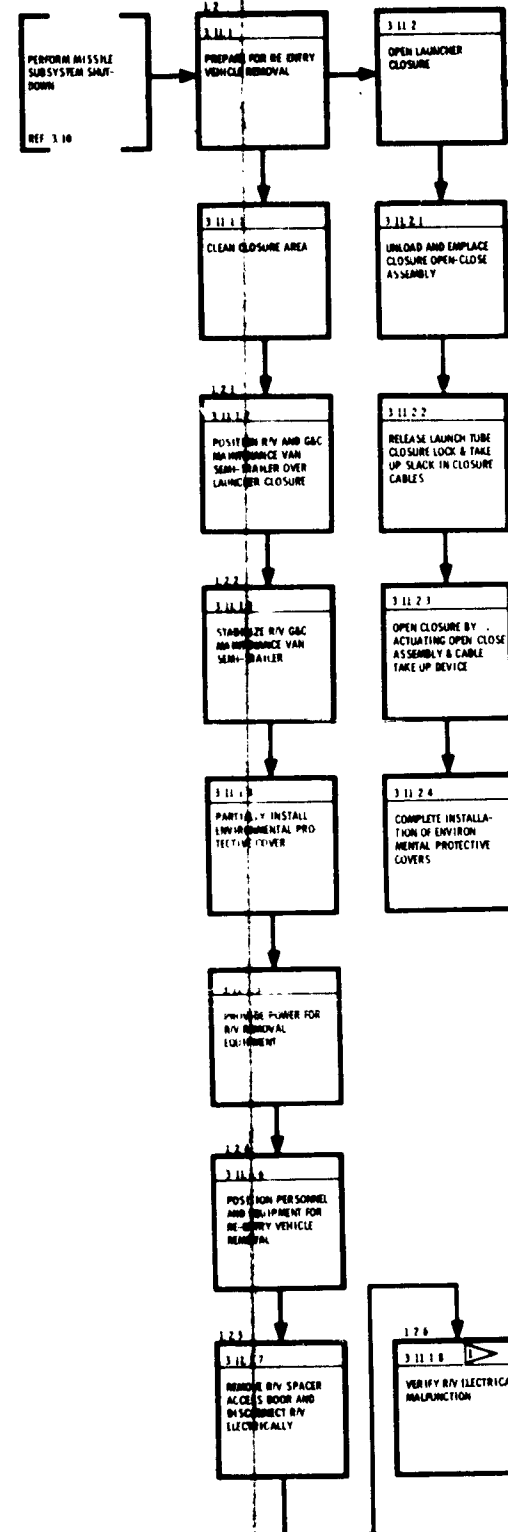
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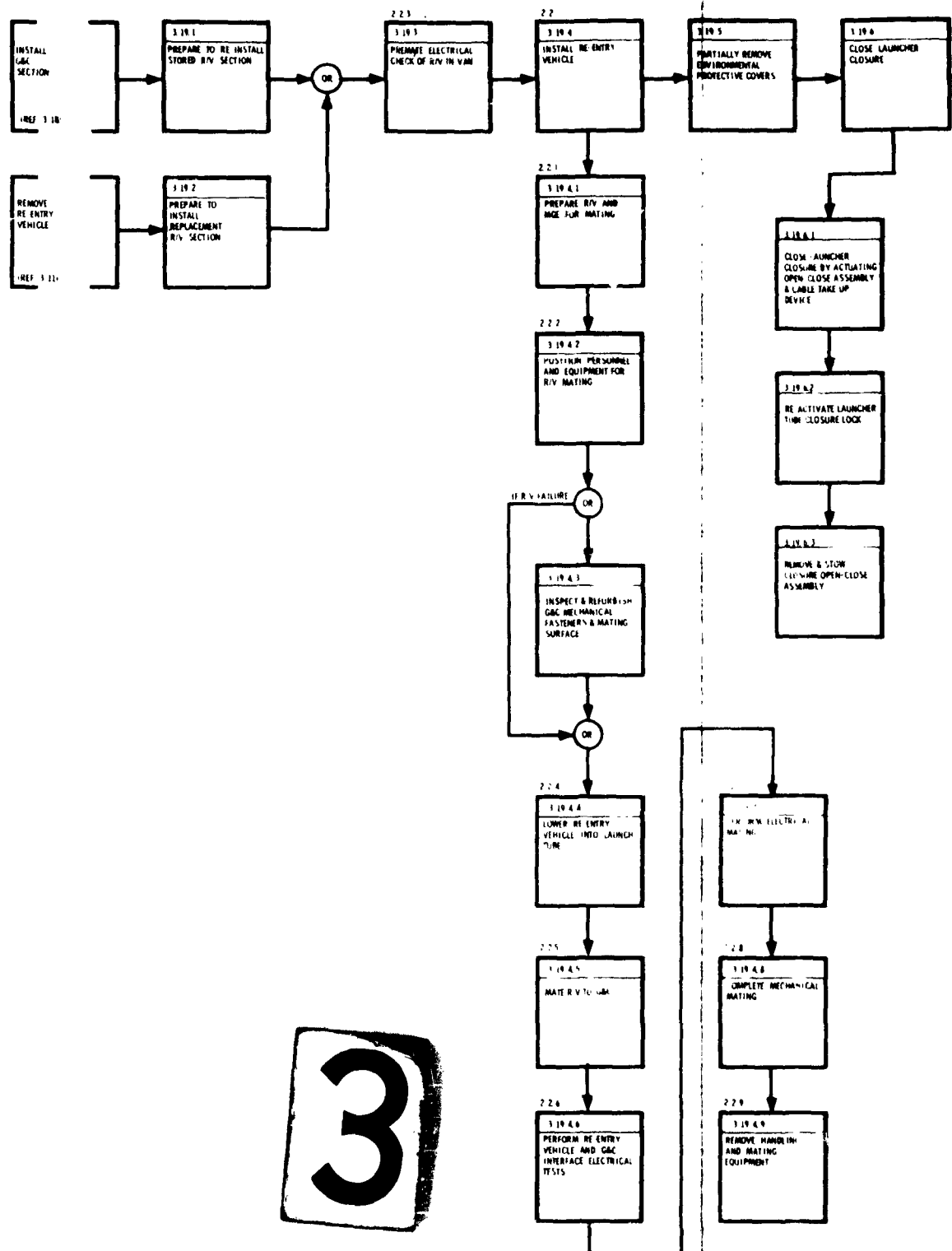
- 1992**

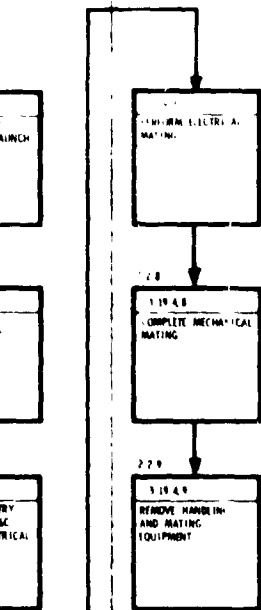
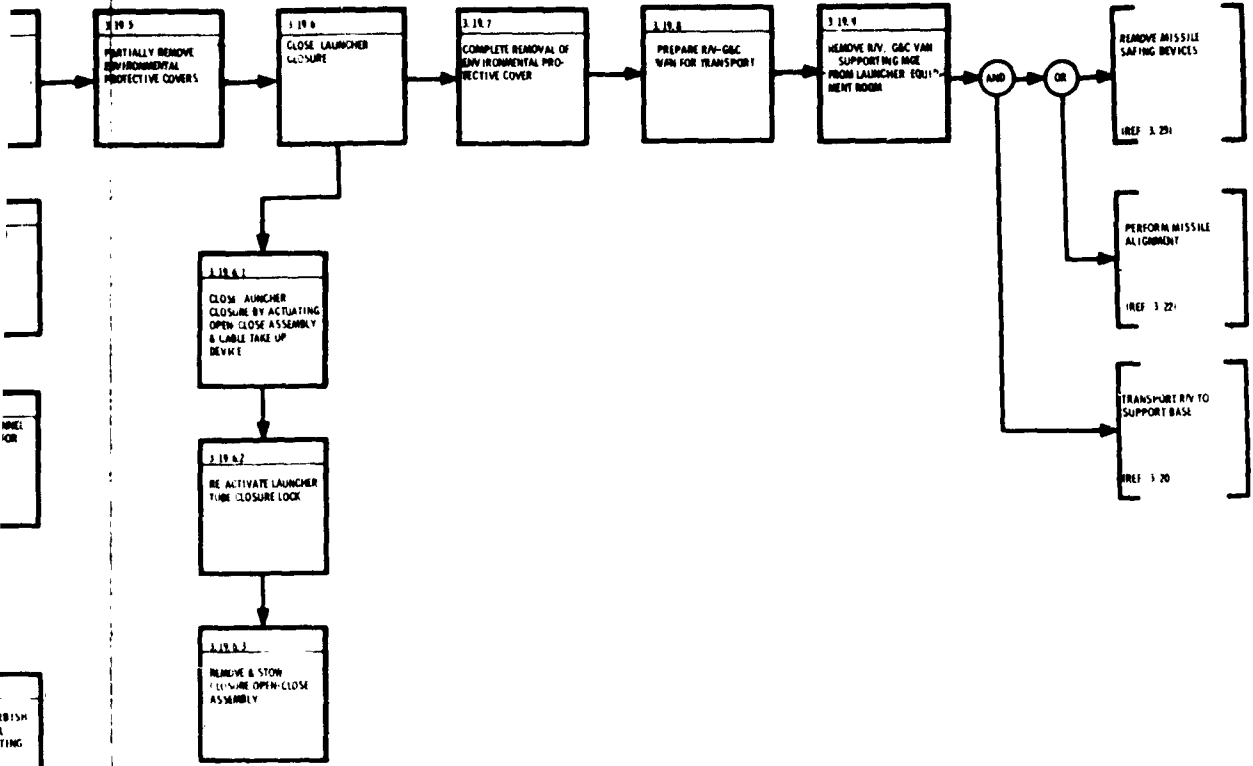
DEFENSE NAME: _____ ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____	DRAWING PREPARED BY: DEFENSE AEROSPACE DIVISION	WHITTAKER WYDE FIRM NAME: 1200 _____ 1400 _____ 1600 _____ 1800 _____ 2000 _____ 2200 _____ 2400 _____ 2600 _____ 2800 _____ 3000 _____ 3200 _____ 3400 _____ 3600 _____ 3800 _____ 4000 _____ 4200 _____ 4400 _____ 4600 _____ 4800 _____ 5000 _____ 5200 _____ 5400 _____ 5600 _____ 5800 _____ 6000 _____ 6200 _____ 6400 _____ 6600 _____ 6800 _____ 7000 _____ 7200 _____ 7400 _____ 7600 _____ 7800 _____ 8000 _____ 8200 _____ 8400 _____ 8600 _____ 8800 _____ 9000 _____ 9200 _____ 9400 _____ 9600 _____ 9800 _____ 10000 _____ 10200 _____ 10400 _____ 10600 _____ 10800 _____ 11000 _____ 11200 _____ 11400 _____ 11600 _____ 11800 _____ 12000 _____ 12200 _____ 12400 _____ 12600 _____ 12800 _____ 13000 _____ 13200 _____ 13400 _____ 13600 _____ 13800 _____ 14000 _____ 14200 _____ 14400 _____ 14600 _____ 14800 _____ 15000 _____ 15200 _____ 15400 _____ 15600 _____ 15800 _____ 16000 _____ 16200 _____ 16400 _____ 16600 _____ 16800 _____ 17000 _____ 17200 _____ 17400 _____ 17600 _____ 17800 _____ 18000 _____ 18200 _____ 18400 _____ 18600 _____ 18800 _____ 19000 _____ 19200 _____ 19400 _____ 19600 _____ 19800 _____ 20000 _____ 20200 _____ 20400 _____ 20600 _____ 20800 _____ 21000 _____ 21200 _____ 21400 _____ 21600 _____ 21800 _____ 22000 _____ 22200 _____ 22400 _____ 22600 _____ 22800 _____ 23000 _____ 23200 _____ 23400 _____ 23600 _____ 23800 _____ 24000 _____ 24200 _____ 24400 _____ 24600 _____ 24800 _____ 25000 _____ 25200 _____ 25400 _____ 25600 _____ 25800 _____ 26000 _____ 26200 _____ 26400 _____ 26600 _____ 26800 _____ 27000 _____ 27200 _____ 27400 _____ 27600 _____ 27800 _____ 28000 _____ 28200 _____ 28400 _____ 28600 _____ 28800 _____ 29000 _____ 29200 _____ 29400 _____ 29600 _____ 29800 _____ 30000 _____ 30200 _____ 30400 _____ 30600 _____ 30800 _____ 31000 _____ 31200 _____ 31400 _____ 31600 _____ 31800 _____ 32000 _____ 32200 _____ 32400 _____ 32600 _____ 32800 _____ 33000 _____ 33200 _____ 33400 _____ 33600 _____ 33800 _____ 34000 _____ 34200 _____ 34400 _____ 34600 _____ 34800 _____ 35000 _____ 35200 _____ 35400 _____ 35600 _____ 35800 _____ 36000 _____ 36200 _____ 36400 _____ 36600 _____ 36800 _____ 37000 _____ 37200 _____ 37400 _____ 37600 _____ 37800 _____ 38000 _____ 38200 _____ 38400 _____ 38600 _____ 38800 _____ 39000 _____ 39200 _____ 39400 _____ 39600 _____ 39800 _____ 40000 _____ 40200 _____ 40400 _____ 40600 _____ 40800 _____ 41000 _____ 41200 _____ 41400 _____ 41600 _____ 41800 _____ 42000 _____ 42200 _____ 42400 _____ 42600 _____ 42800 _____ 43000 _____ 43200 _____ 43400 _____ 43600 _____ 43800 _____ 44000 _____ 44200 _____ 44400 _____ 44600 _____ 44800 _____ 45000 _____ 45200 _____ 45400 _____ 45600 _____ 45800 _____ 46000 _____ 46200 _____ 46400 _____ 46600 _____ 46800 _____ 47000 _____ 47200 _____ 47400 _____ 47600 _____ 47800 _____ 48000 _____ 48200 _____ 48400 _____ 48600 _____ 48800 _____ 49000 _____ 49200 _____ 49400 _____ 49600 _____ 49800 _____ 50000 _____ 50200 _____ 50400 _____ 50600 _____ 50800 _____ 51000 _____ 51200 _____ 51400 _____ 51600 _____ 51800 _____ 52000 _____ 52200 _____ 52400 _____ 52600 _____ 52800 _____ 53000 _____ 53200 _____ 53400 _____ 53600 _____ 53800 _____ 54000 _____ 54200 _____ 54400 _____ 54600 _____ 54800 _____ 55000 _____ 55200 _____ 55400 _____ 55600 _____ 55800 _____ 56000 _____ 56200 _____ 56400 _____ 56600 _____ 56800 _____ 57000 _____ 57200 _____ 57400 _____ 57600 _____ 57800 _____ 58000 _____ 58200 _____ 58400 _____ 58600 _____ 58800 _____ 59000 _____ 59200 _____ 59400 _____ 59600 _____ 59800 _____ 60000 _____ 60200 _____ 60400 _____ 60600 _____ 60800 _____ 61000 _____ 61200 _____ 61400 _____ 61600 _____ 61800 _____ 62000 _____ 62200 _____ 62400 _____ 62600 _____ 62800 _____ 63000 _____ 63200 _____ 63400 _____ 63600 _____ 63800 _____ 64000 _____ 64200 _____ 64400 _____ 64600 _____ 64800 _____ 65000 _____ 65200 _____ 65400 _____ 65600 _____ 65800 _____ 66000 _____ 66200 _____ 66400 _____ 66600 _____ 66800 _____ 67000 _____ 67200 _____ 67400 _____ 67600 _____ 67800 _____ 6
--	--	--

LCF OPERATOR HAS RECEIVED OPERATIONAL SYSTEM MALFUNCTION INDICATION. MCC HAS BEEN NOTIFIED. FAULT HAS BEEN ISOLATED TO AIRBORNE SYSTEM. R/V MUST BE REMOVED FOR REPAIR OF THE SYSTEM. THE LAUNCHER HAS BEEN ENTERED AND THE R/V SECTION WILL BE REMOVED.

1



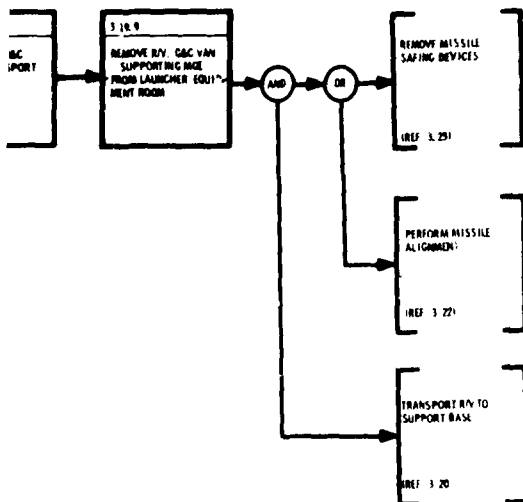




4

NOTE:

- THIS DRAWING IS NOT IN ACCORDANCE WITH OSD EXHIBIT 42-42 BEC WING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.
- ABBREVIATIONS USED ON THIS DRAWING ARE AS FOLLOWS:
RV: RE-ENTRY VEHICLE
MCC: MAINTENANCE CONTROL CENTER
LCF: LAUNCH CONTROL FACILITY
GAC: GUIDANCE & CONTROL
- THE FUNCTION NUMBERS ABOVE THE BONES ARE THE SAME FUNCTIONING 1 GSCG 25-2224 SHEETS 1 & 2
- REQUIRED IF WARHEAD ALARM ONLY



NOTE

- THIS DRAWING IS NOT IN ACCORDANCE WITH BSO EXHIBIT 62-42 BECAUSE WING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

- ABBREVIATIONS USED ON THIS DRAWING ARE AS FOLLOWS:

R/V RE-ENTRY VEHICLE
M/C MAINTENANCE CONTROL CENTER
L/C LAUNCH CONTROL FACILITY
GAC GUIDANCE & CONTROL

- THE FUNCTION NUMBERS ABOVE THE BOXES ARE THE SAME FUNCTIONS AS WING 1 DWG. 25-2224 SHEETS 1 & 2

▷ REQUIRED IF WARHEAD ALARM ONLY

5

REV SYM C

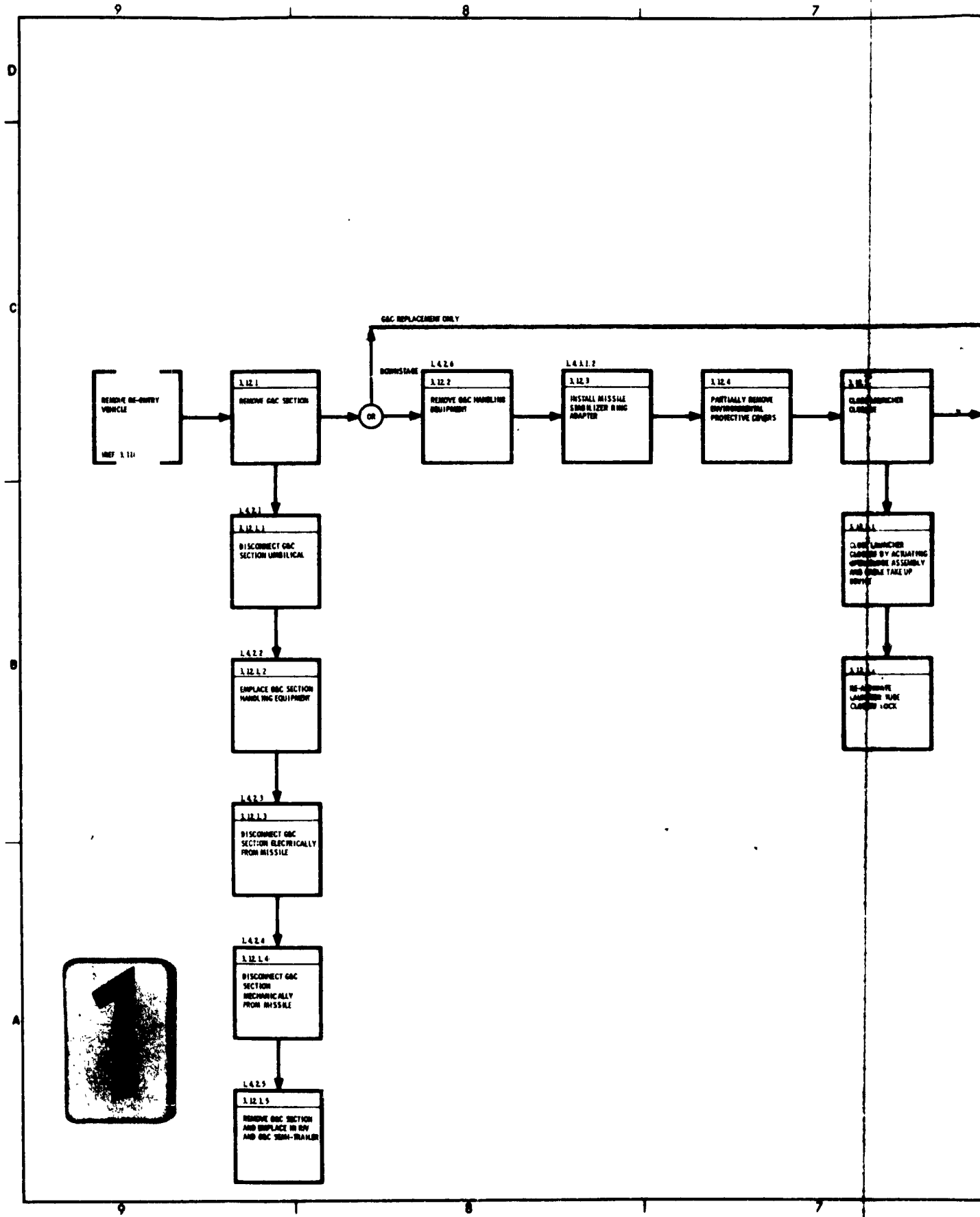
BOEING

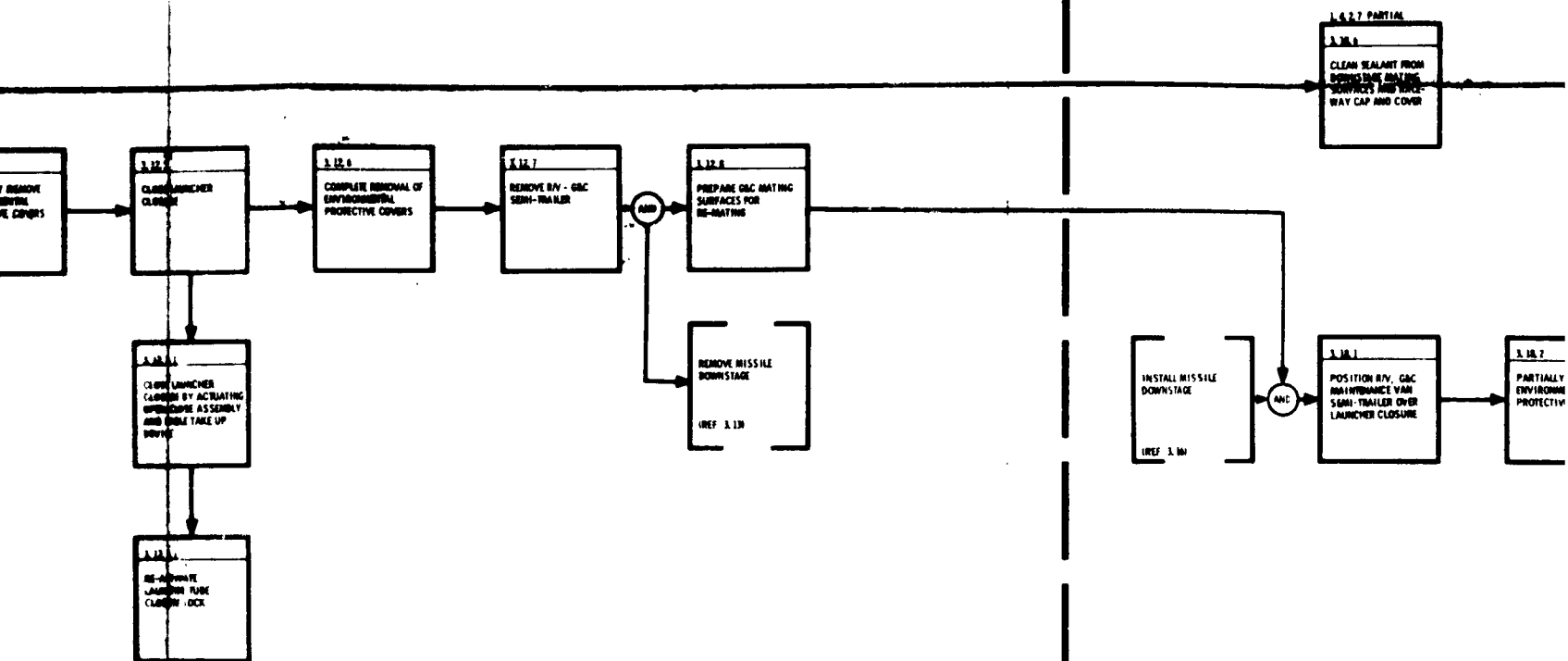
NO D2-30044-1B

SEC IV

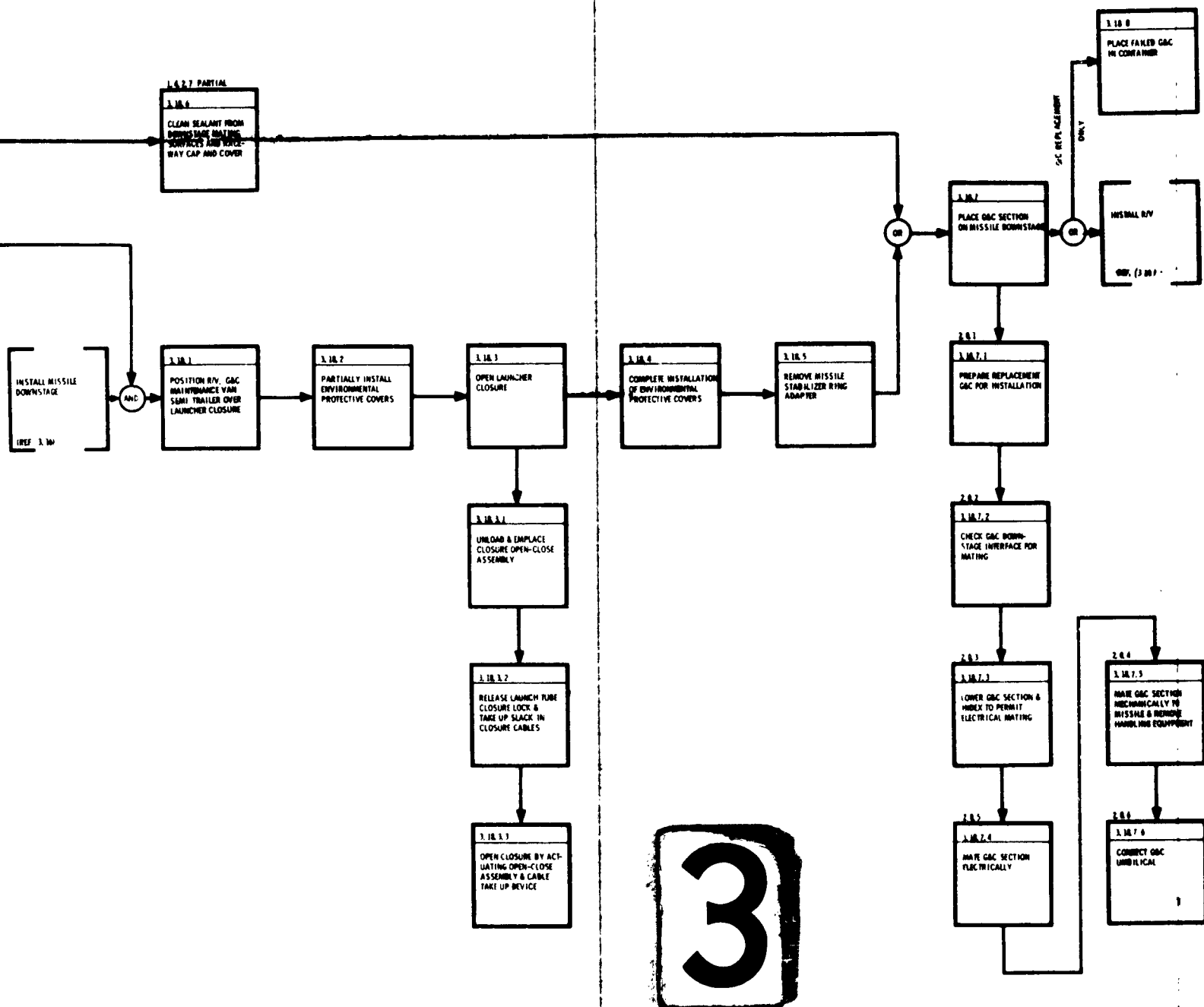
PAGE 38

BOEING		DRAWING PREPARED BY		MINUTEMAN WING XI	
REVISION	DATE	BOEING		FLOW NAME	
		AERO-SPACE DIVISION		REMOVE R/V (3 18)	
				INSTALL R/V (3 20)	
				SH OF FLOW NO. 3 11 & 12	





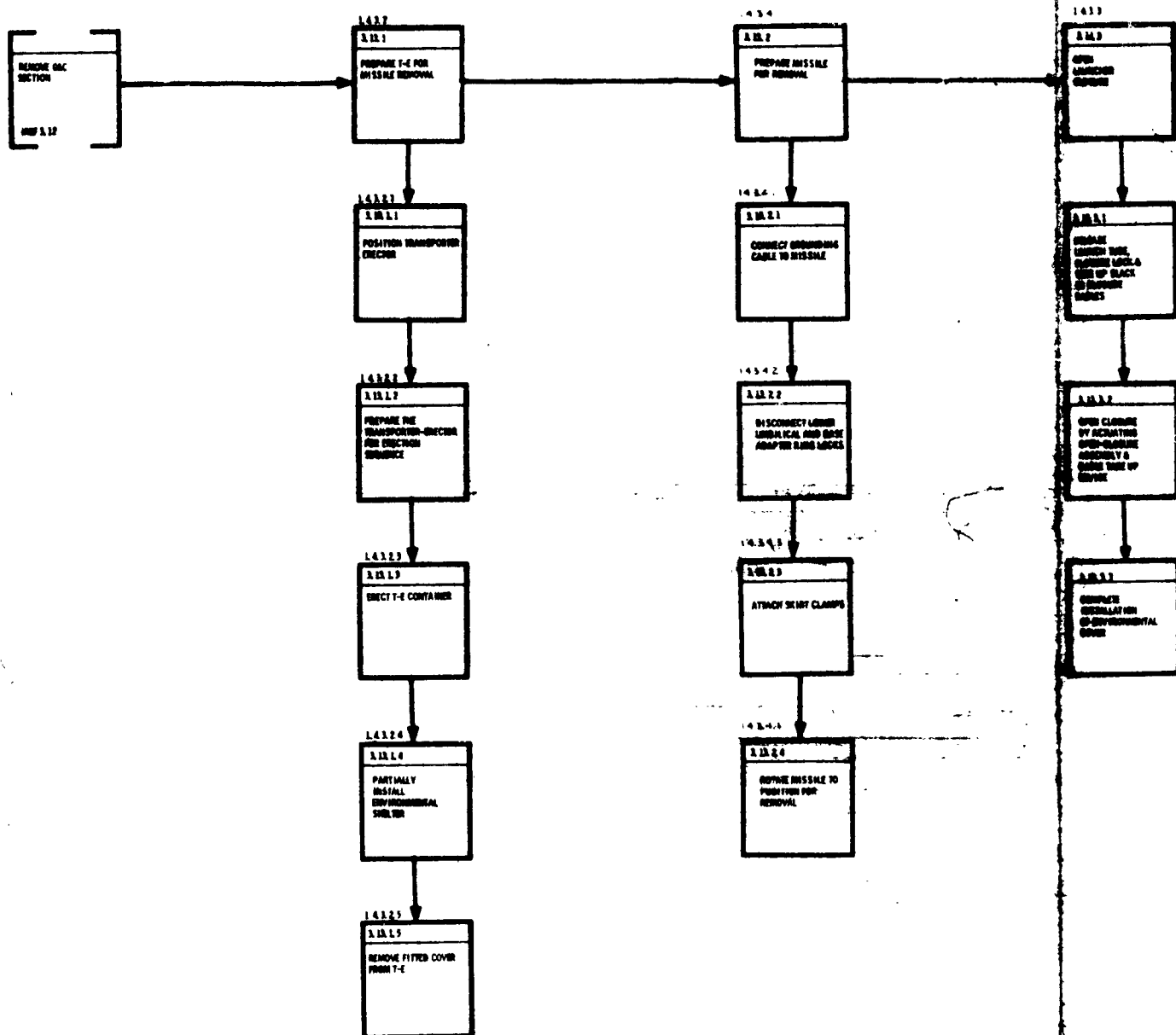
2



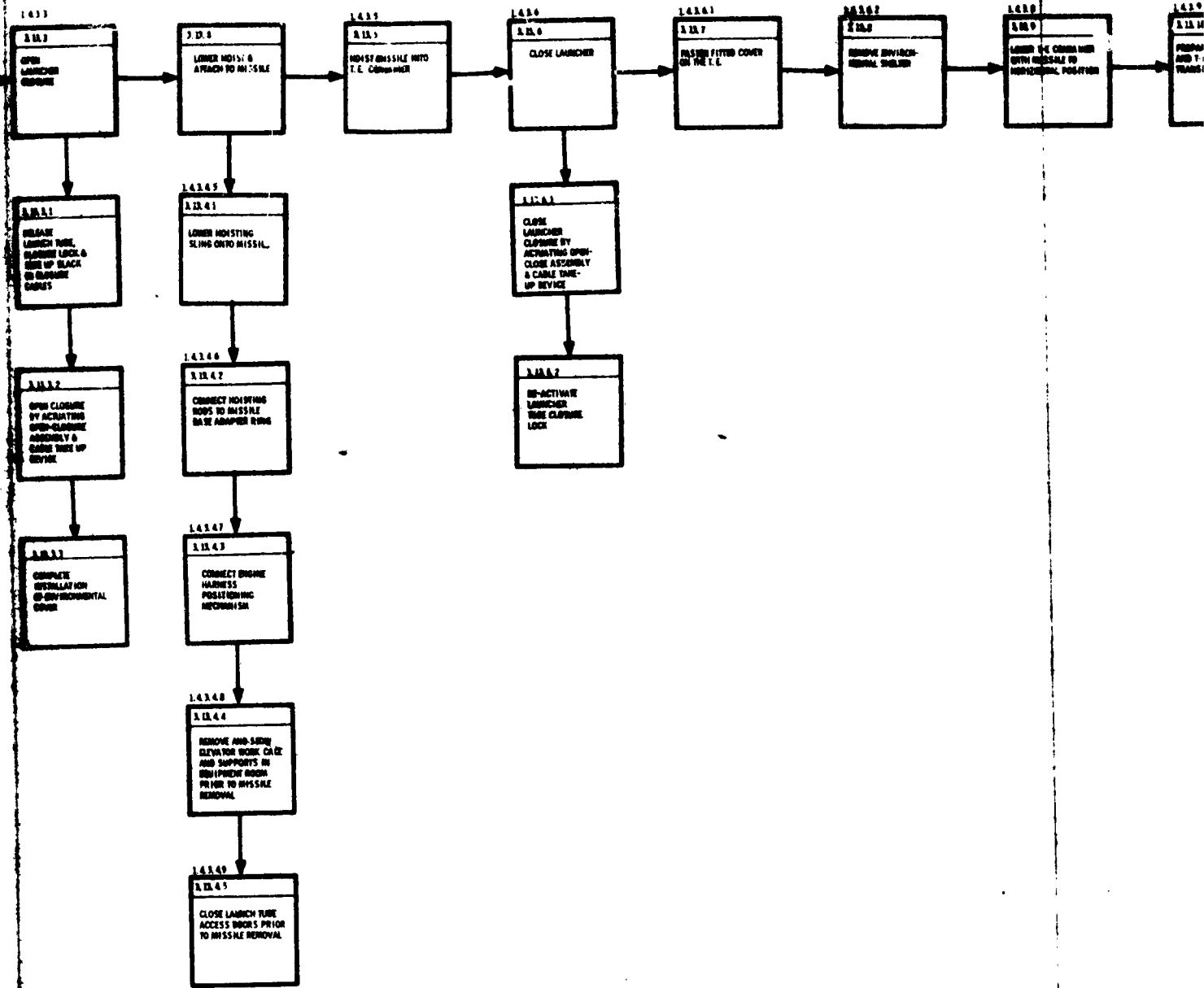


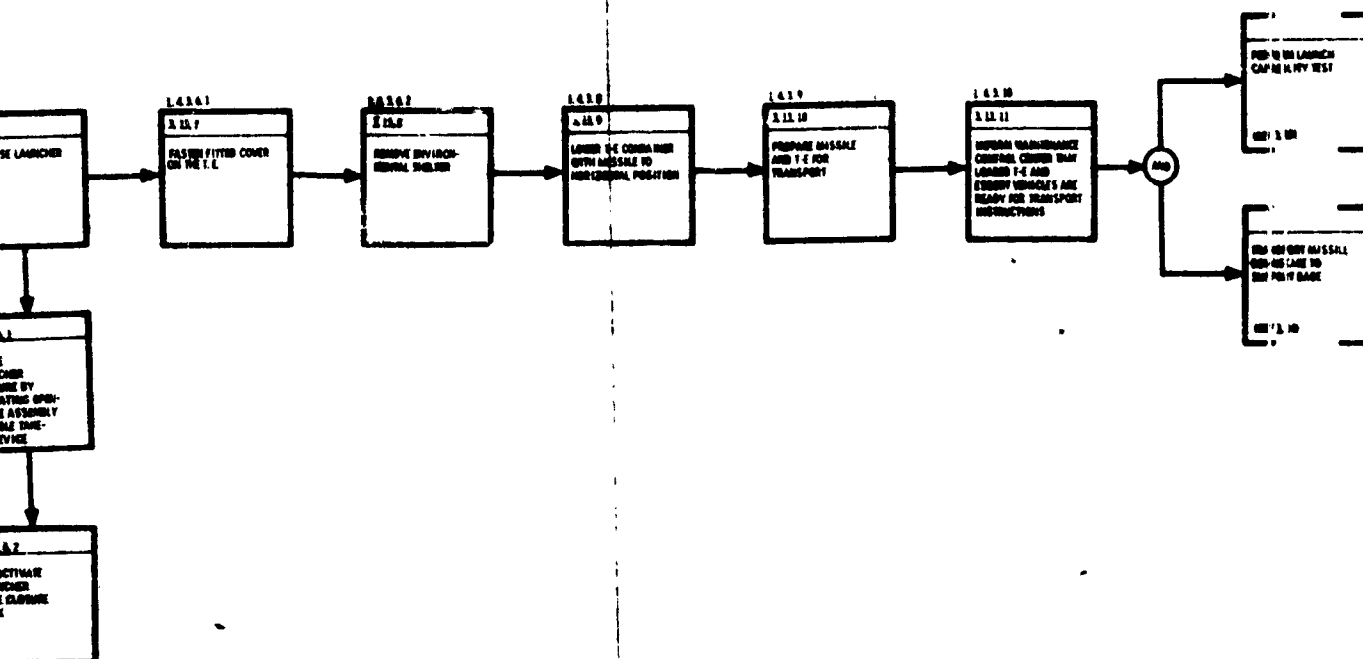
● THIS DRAWING IS NOT IN ACCORDANCE WITH 350 EXHIBIT 62-62 BECAUSE
WITH 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

ENGINE		DRAWING PREPARED BY:		WHITTENMAN WING 12	
TYPE	NO.	ENGINE		FLOW NAME	
		AERO-SPACE DIVISION		PENETR BAC SECTION 12 L2	
				118 TALL BAC SECTION 12 H2	
				54 OF FLOW INCL 3 12 6 3 1	



1





NOTE:
THE BARRELS ABOVE THE FUNCTION
OF THE 3-2000 SHEETS 1 AND 2
THIS DRAWING IS NOT IN ACCORDANCE
WITH FUNCTIONAL FLOW DIAGRAM

ADDITIONAL
T.E. - TRANSPORT-DIRECTOR

3

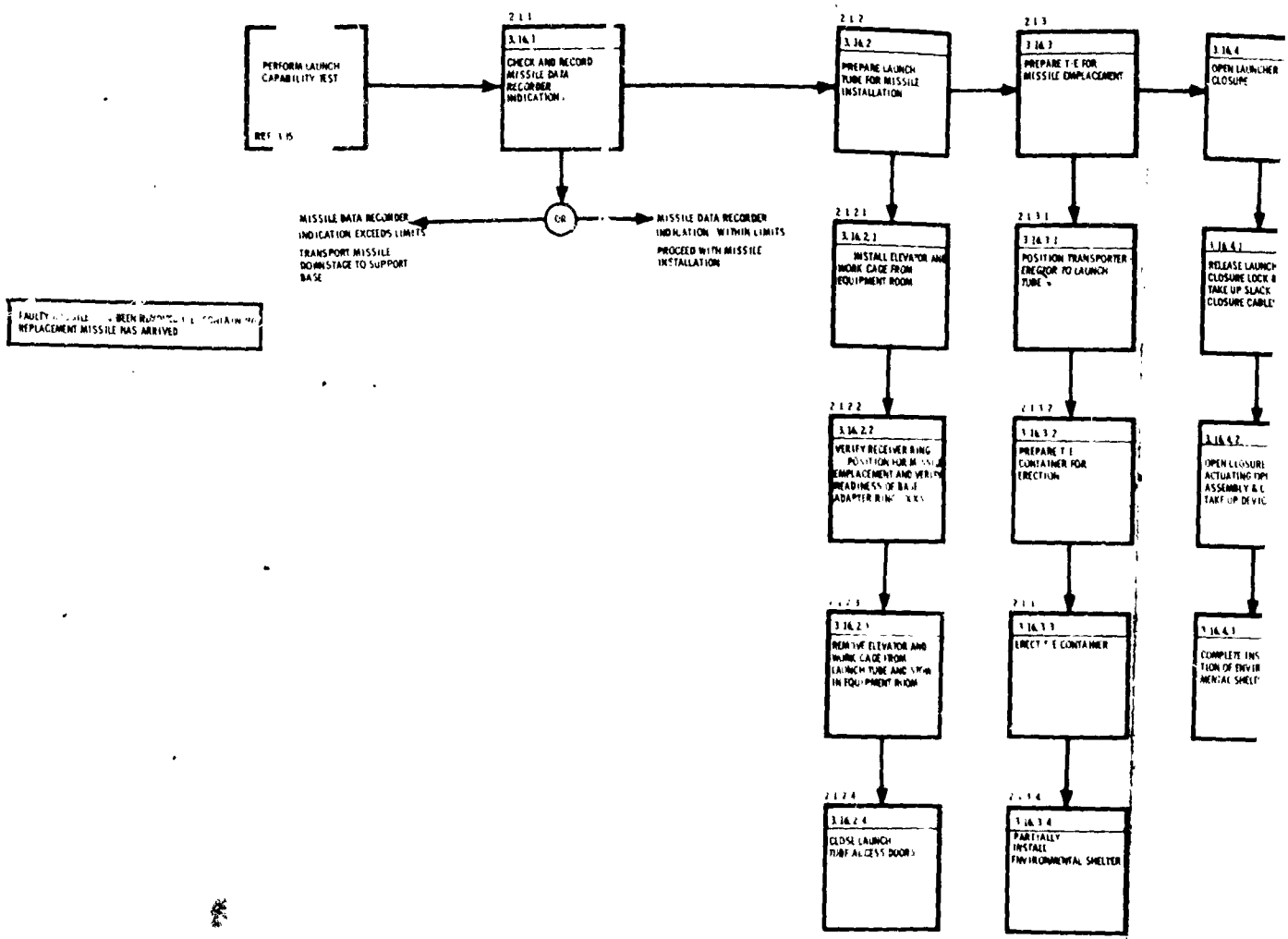
REV SYM 6

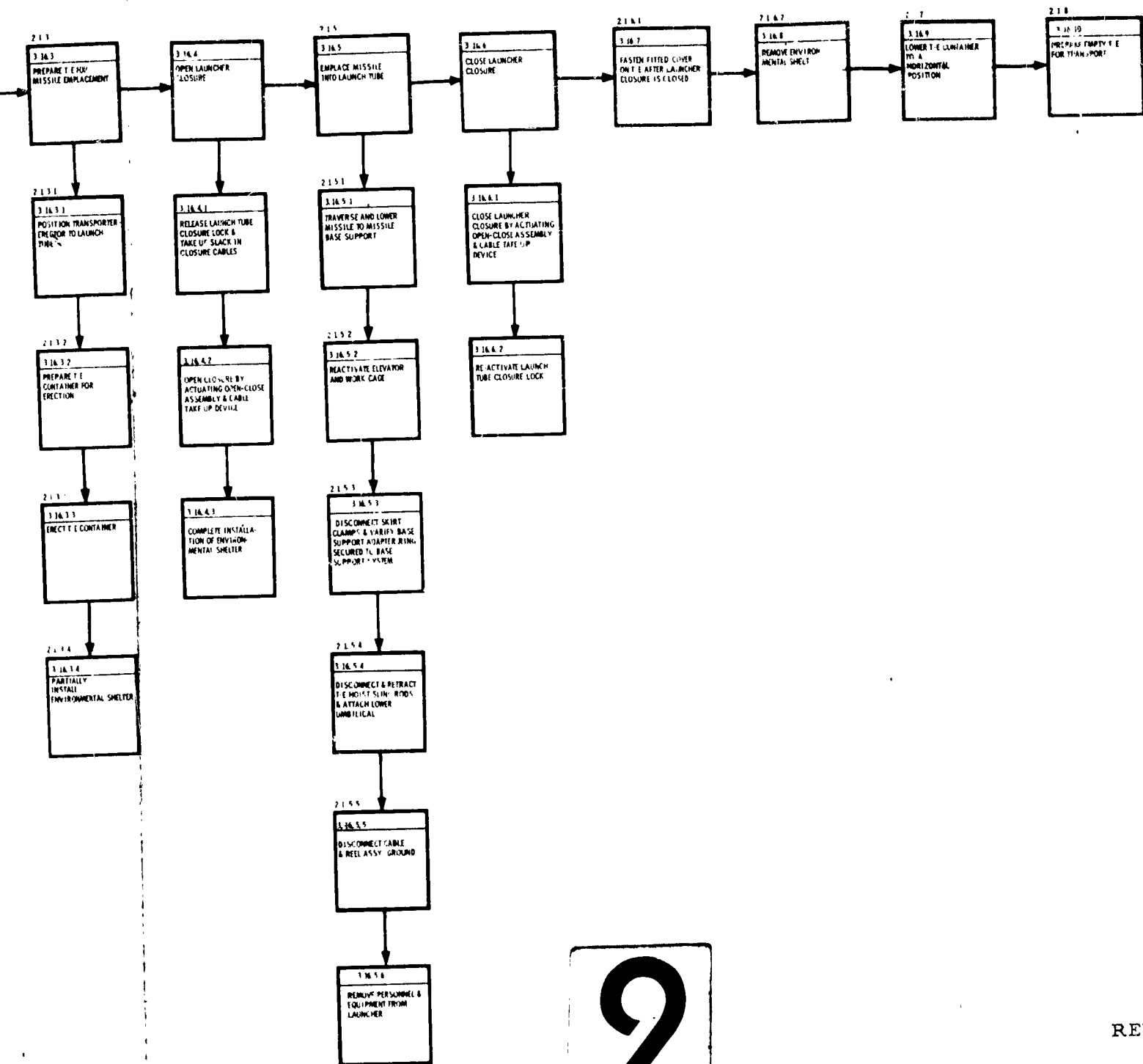
NO 12-1004
SEC IV

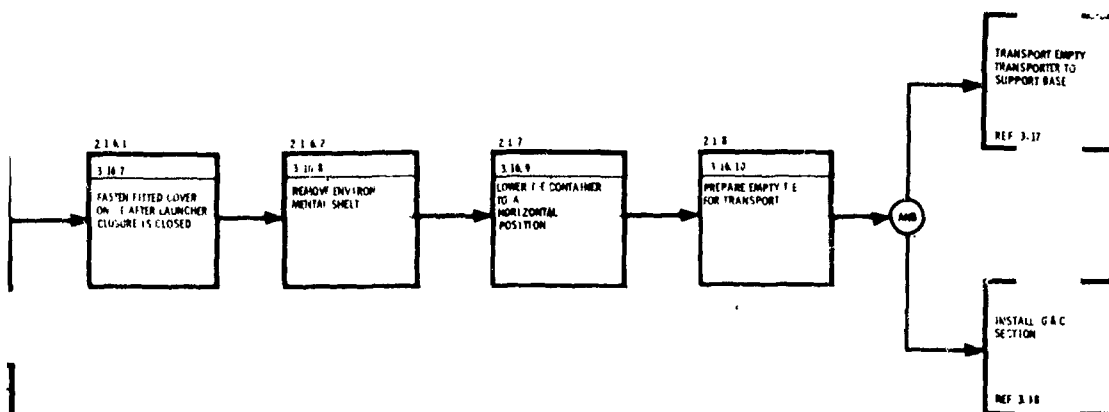
REVISION	REVISION
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

NO 52-35044-12	
SEC TV	PAGE 60
1. NAME 2. ADDRESS 3. CITY 4. STATE 5. ZIP 6. PHONE 7. FAX 8. TELETYPE 9. CABLE 10. RADIO 11. TELEVISION 12. OTHER	13. BUSINESS PHONE 14. BUSINESS FAX 15. BUSINESS TELETYPE 16. BUSINESS CABLE 17. BUSINESS RADIO 18. BUSINESS TELEVISION 19. BUSINESS OTHER 20. HOME PHONE 21. HOME FAX 22. HOME TELETYPE 23. HOME CABLE 24. HOME RADIO 25. HOME TELEVISION 26. HOME OTHER 27. OFFICE PHONE 28. OFFICE FAX 29. OFFICE TELETYPE 30. OFFICE CABLE 31. OFFICE RADIO 32. OFFICE TELEVISION 33. OFFICE OTHER

1







3

INSTALLATION OF REPLACEMENT DOWNSTAGE IS COMPLETE

ABBREVIATIONS
T E TRANSPORTER DIRECTOR

NOTE

- THE LAYOUT OF THIS DRAWING DOES NOT COMPLY WITH AFMSSO EXHIBIT 62-62
- FUNCTION NUMBER ABOVE BOXES ARE FROM WING 1 DRAWING 25-22294 SHEET 2

REV SYM C

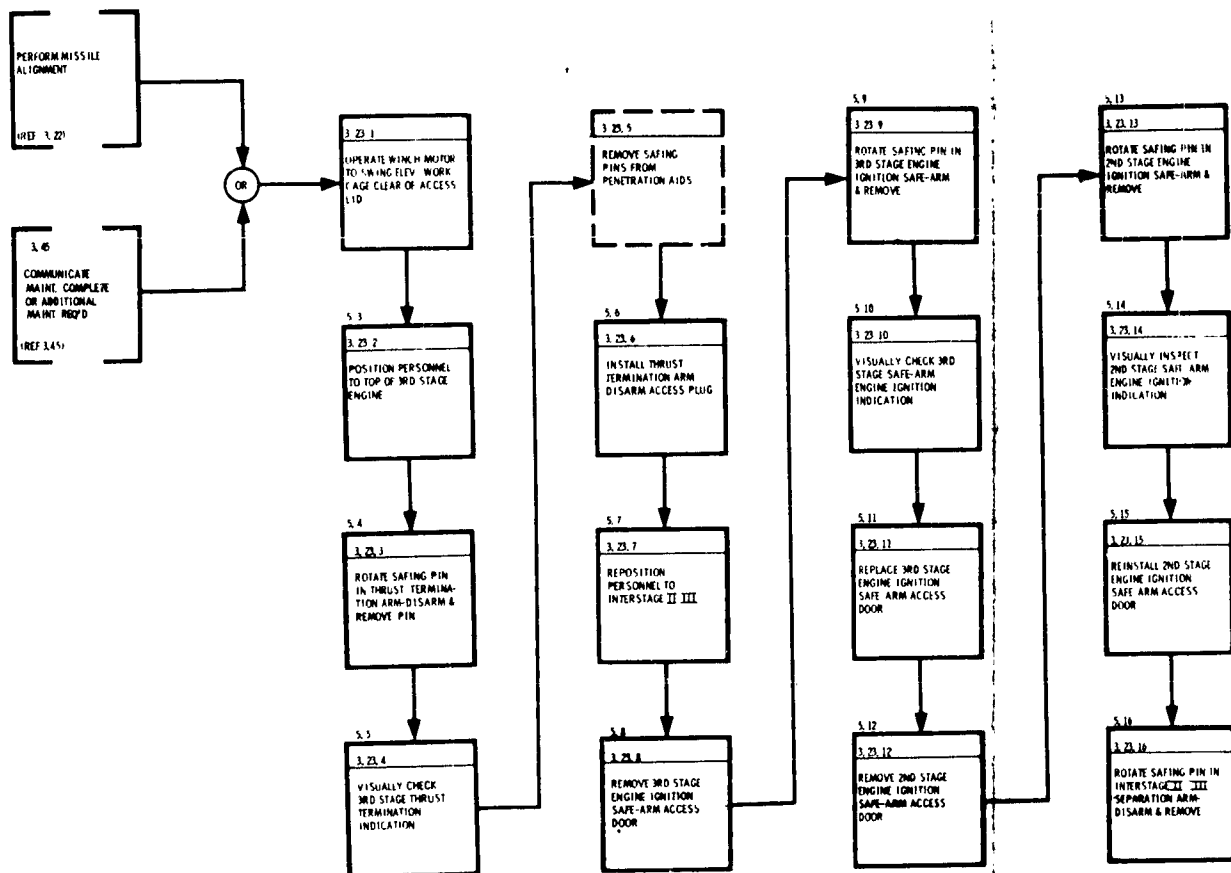
BOEING NO D2-30044-1B

SEC IV

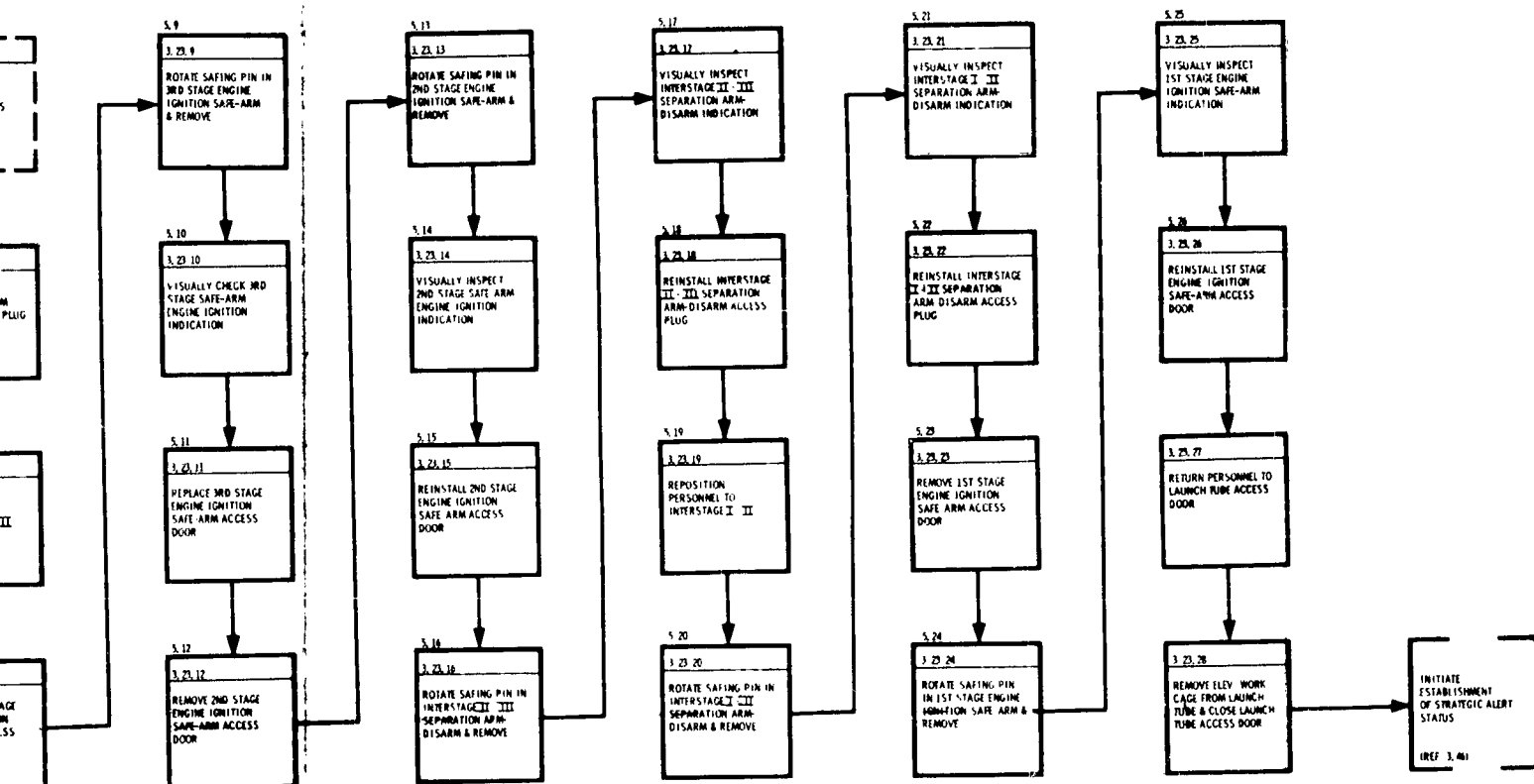
PAGE 41

BOEING		DRAWING PREPARED BY:		MINUTEMAN WING XI	
DIVISION	DATE	AERO-SPACE DIVISION		FLOW NAME	
		BY		INSTALL	
		CHECKED		MISSILE	
		APPROVED		POWERS DRAFT	
		DATE		SH OF FLOW NO. 3.16	

LEAD IN
AVE. OGE MGE OR RP IE MAINTENANCE
WITHIN THE SILO HAVING BEEN
SATISFACTORILY COMPLETED THE
SAFED MISSILE MUST AGAIN BE
ARMED PRIOR TO RETURNING
THE SITE TO THE STRATEGIC ALERT
CONDITION



1



2

REV SYM C

DOE



FUNCTION NUMBERS ABOVE BLOCK ARE FROM WING 1 DRAWING 25-10037 SHEET 1

BSING		DRAWING PREPARED BY BSING		MINUTEMAN WING I	
REVISION	DATE	AERO-SPACE DIVISION		FLOW NAME REMOVE MISSILE SAFING DEVICE	
		DRAWN	DATE		
		CHECK	DATE		
		APPROVED	DATE		
				SM OF	FLOW NO. 1.29

CSC HAS RECEIVED NOTIFICATION OF THE EXISTENCE OF AN EMERGENCY CONDITION AND HAS DISPATCHED EMERGENCY CROPS, EQUIPMENT AND VEHICLES TO CORRECT THE EMERGENCY CONDITION.

4.1
COMMUNICATE EMERGENCY NOTIFICATION
SYL **URGENT**

FROM: ESCORT RADIO
POLICE
LCF

REPORT STATUS
SEE DETAIL DIAGRAM
REF. 2.48

OR

4.2
RECEIVE EMERGENCY NOTIFICATION
URGENT

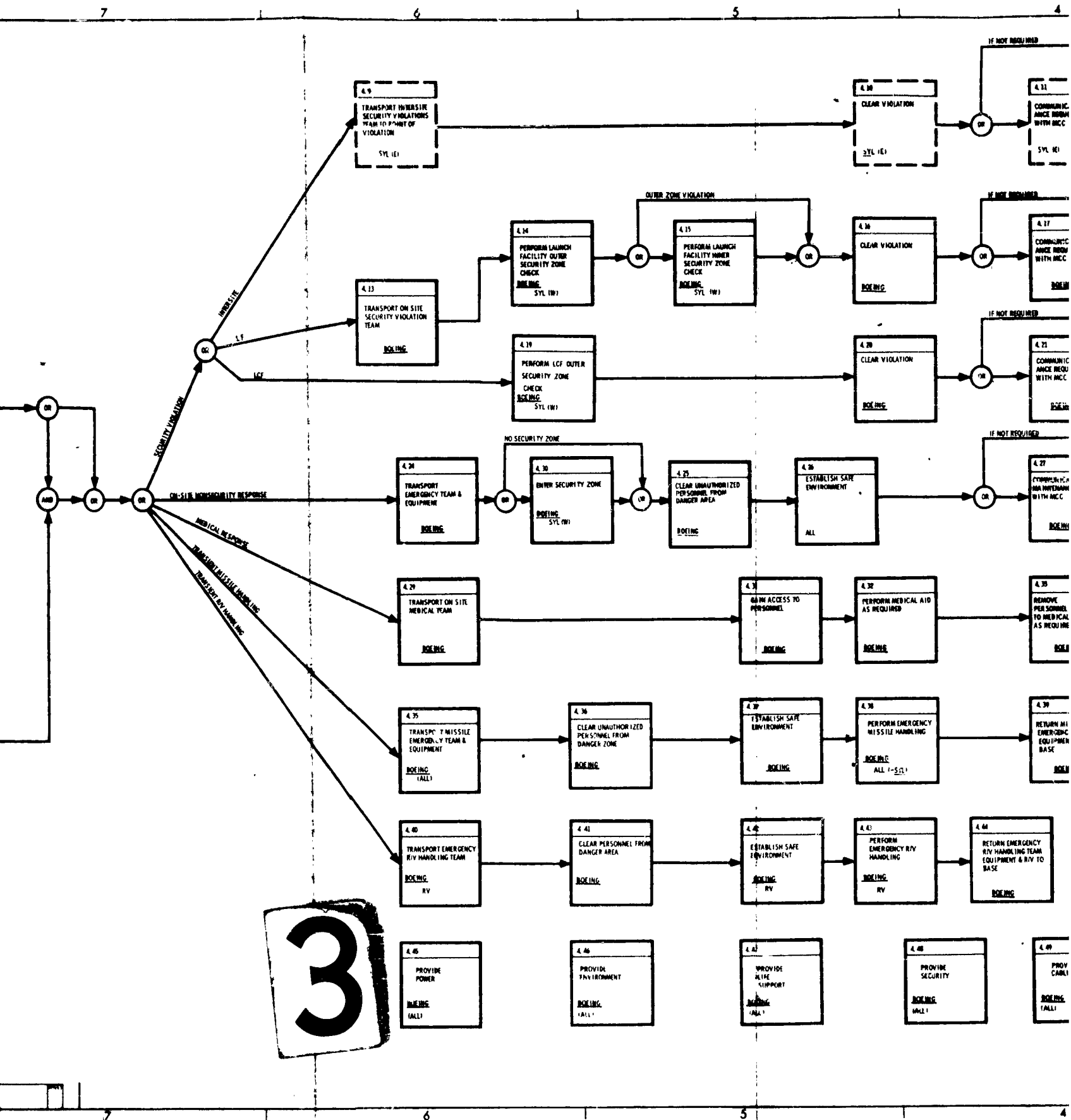
4.3
DETERMINE ROUTING & ESCORT REQUIREMENTS
URGENT
ALL

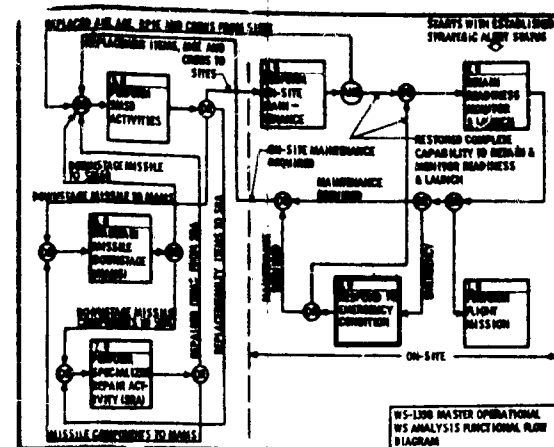
4.4
DETERMINE SECURITY REQUIREMENTS
URGENT
ALL

4.5
DETERMINE CROW REQUIREMENTS
URGENT
ALL

4.6
DETERMINE EQUIPMENT REQUIREMENTS
URGENT
ALL

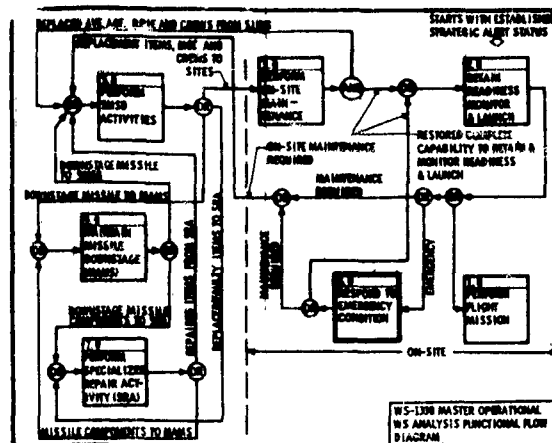
1





THE EMERGENCY CONDITION HAS BEEN
BEEN PERFORMED, THE SYSTEM IS IN
EMERGENCY CREEPS HAVE SECURED THE
SARIS WITH VEHICLES AND EQUIPMENT
PERFORMED THE SYSTEM MUST BE
STAYS PRIOR TO SECURING THE FAC

SEC. IV PAGE 43



4.25
TRANSPORT SECURITY
TEAM & EQUIPMENT TO
SUPPORT BASE
BOEING

4.12
TRANSPORT SECURITY
TEAM & EQUIPMENT
SYL (W)

4.10
SECURE LAUNCH SITE
BOEING
SYL (W)

4.22
SECURE LCF
BOEING
SYL (W)

4.20
RETURN EMERGENCY
TEAM & EQUIPMENT
BOEING

4.14
TRANSPORT MEDICAL
TEAM & EQUIPMENT
BOEING

5

NOTES
THIS FLOW IS LIMITED TO
IDENTIFICATION OF RESPONSES
TO INCIDENT OR ACTUAL
CATAS TROPHIES WHICH CAN
HAVE IMPROVED PERFORMANCE
AND/OR SURROUNDING AREA

ABBREVIATIONS USED ON THIS DRAWING ARE AS FOLLOWS

BOEING THE BOEING COMPANY
SYL SYLVANIA
SYL (W) SYLVANIA (WEST)
AN AUTONICS
I-PROP) PROPOSITION
TCC THOROL CHEMICAL CORPORATION
ABC AERONUT GENERAL CORPORATION
GFP GOVERNMENT FURNISHED PARTS
RY USER AS INDICATING AN UNREPAIRED
CONTRACTOR RESPONSIBILITY

PRIME RESPONSIBILITY FOR COLLATION OF ANALYSIS DATA, FOR A
FUNCTION, IS DENOTED BY UNDERLINING OF ASSOCIATE CONTRACTOR

THE EMERGENCY CONDITION HAS BEEN CLEARED. IF MAINTENANCE HAS NOT
BEEN PERFORMED, THE SYSTEM IS IN STRATEGIC ALERT STATUS AND THE
EMERGENCY CHIEFS HAVE SECURED THE FACILITY AND RETURNED TO CSC OR
SASER WITH VEHICLES AND EQUIPMENT. IF MAINTENANCE HAS BEEN
PERFORMED THE SYSTEM MUST BE BROUGHT TO STRATEGIC ALERT
STATUS PRIOR TO SECURING THE FACILITY

REV SYM C

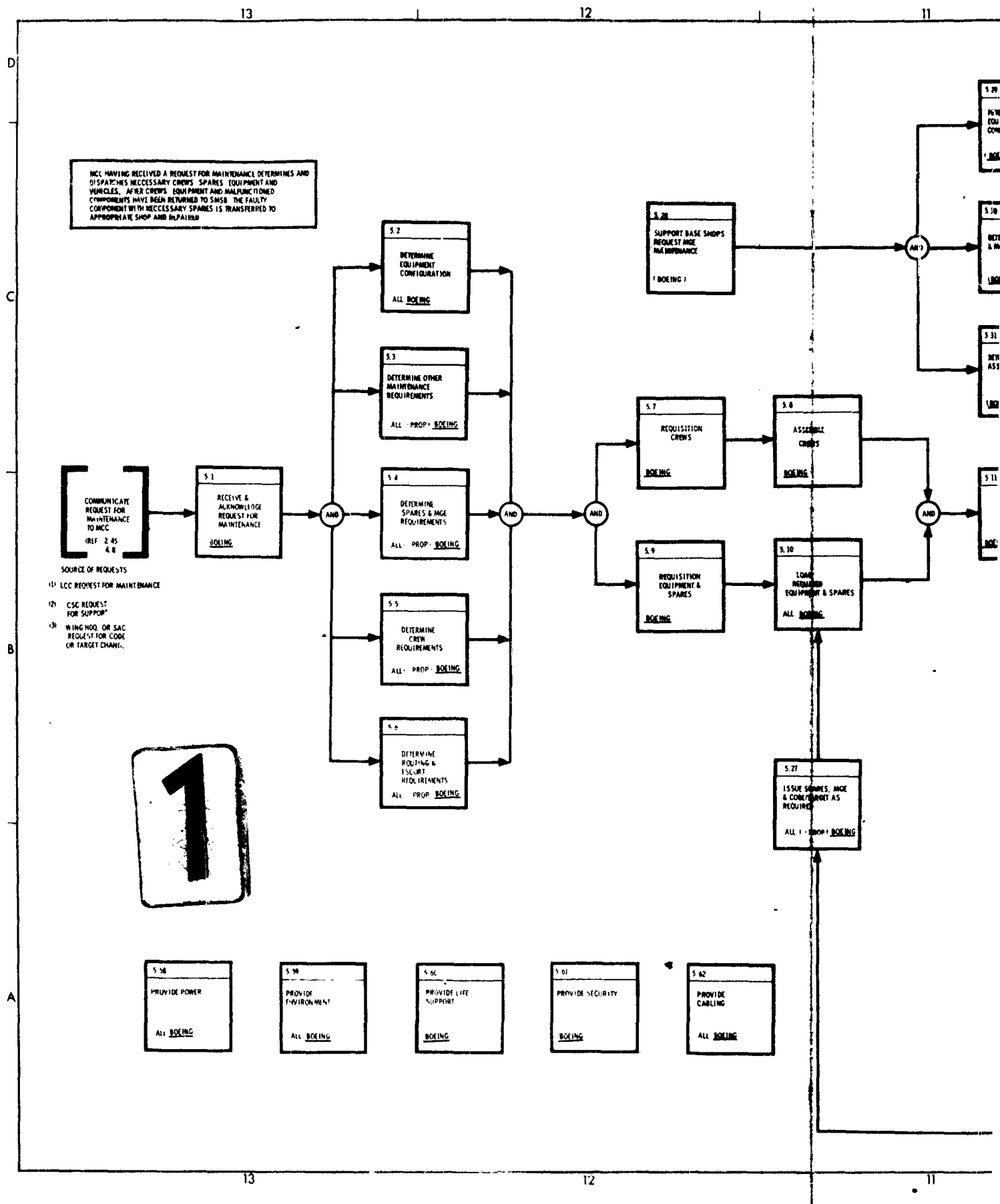
BOEING

NO D2-30044-1B

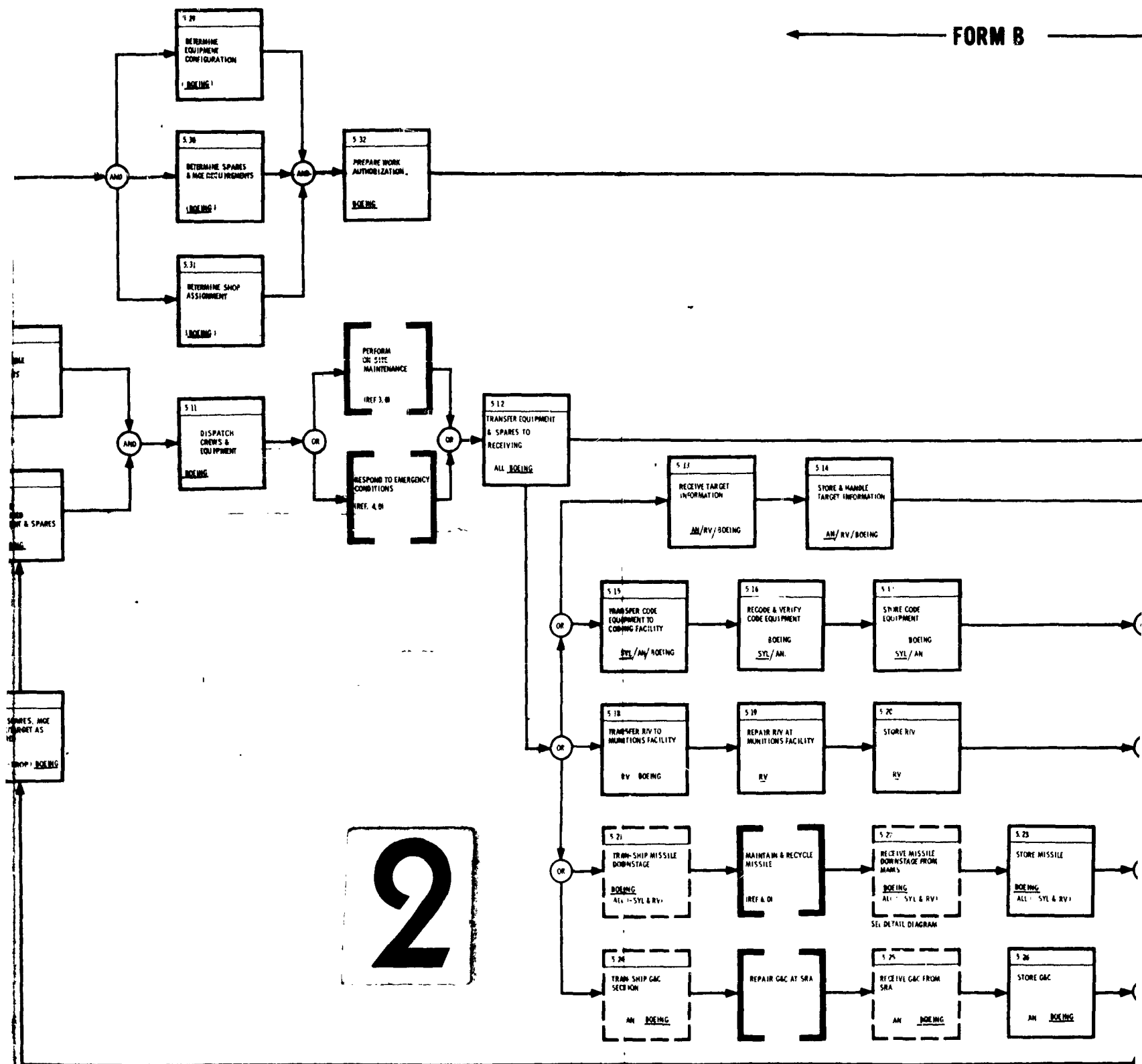
SEC. IV

PAGE 43

DRAWING PREPARED BY:		MINUTEMAN WING II	
BOEING		PLAN NAME:	
AERONUT DIVISION		RESPOND TO EMERGENCY	
DATE: 1-15-63		CONDITION	
BY: [Signature]		SH OF PLAN NO. 4.1	



FORM B

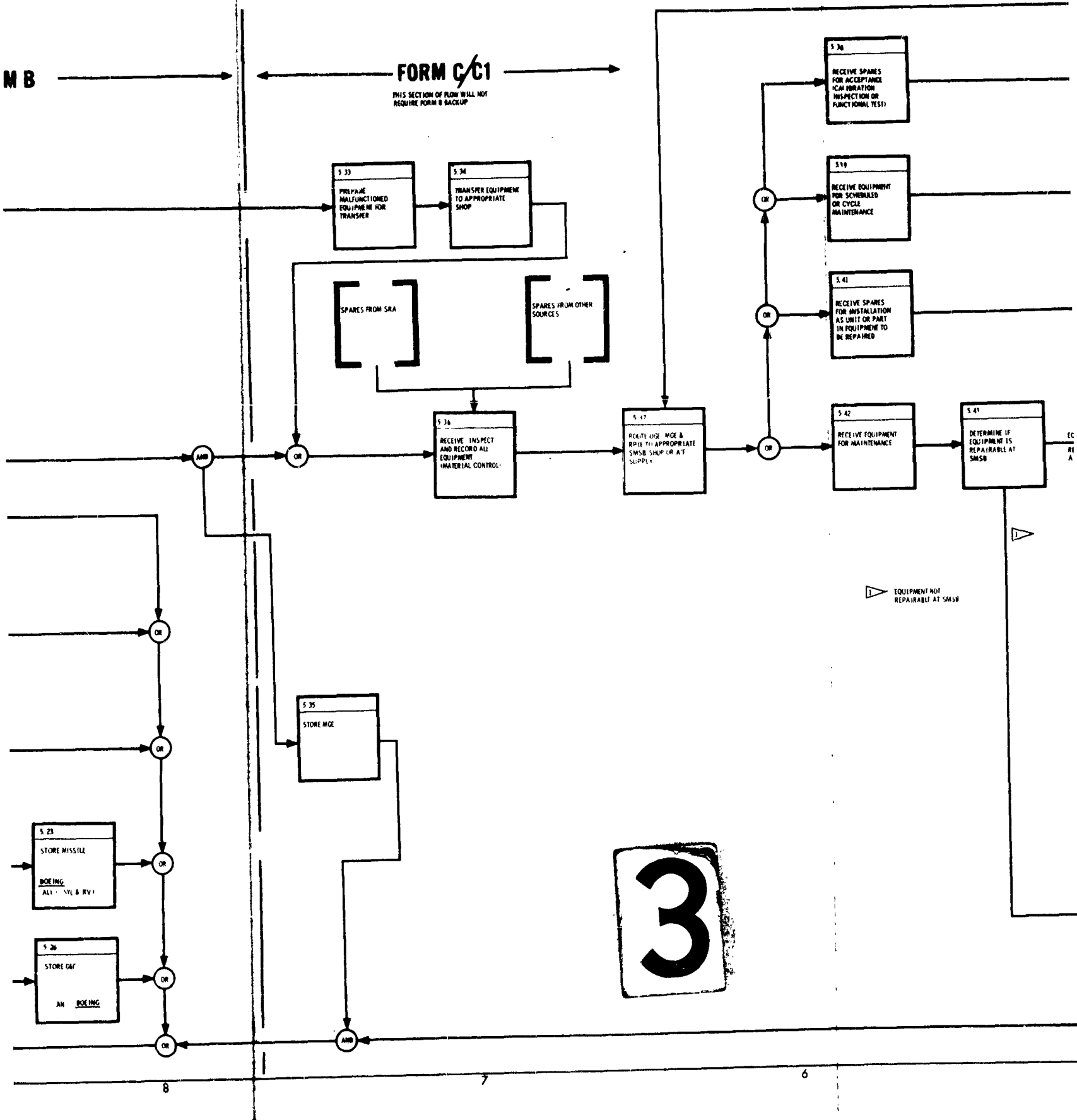


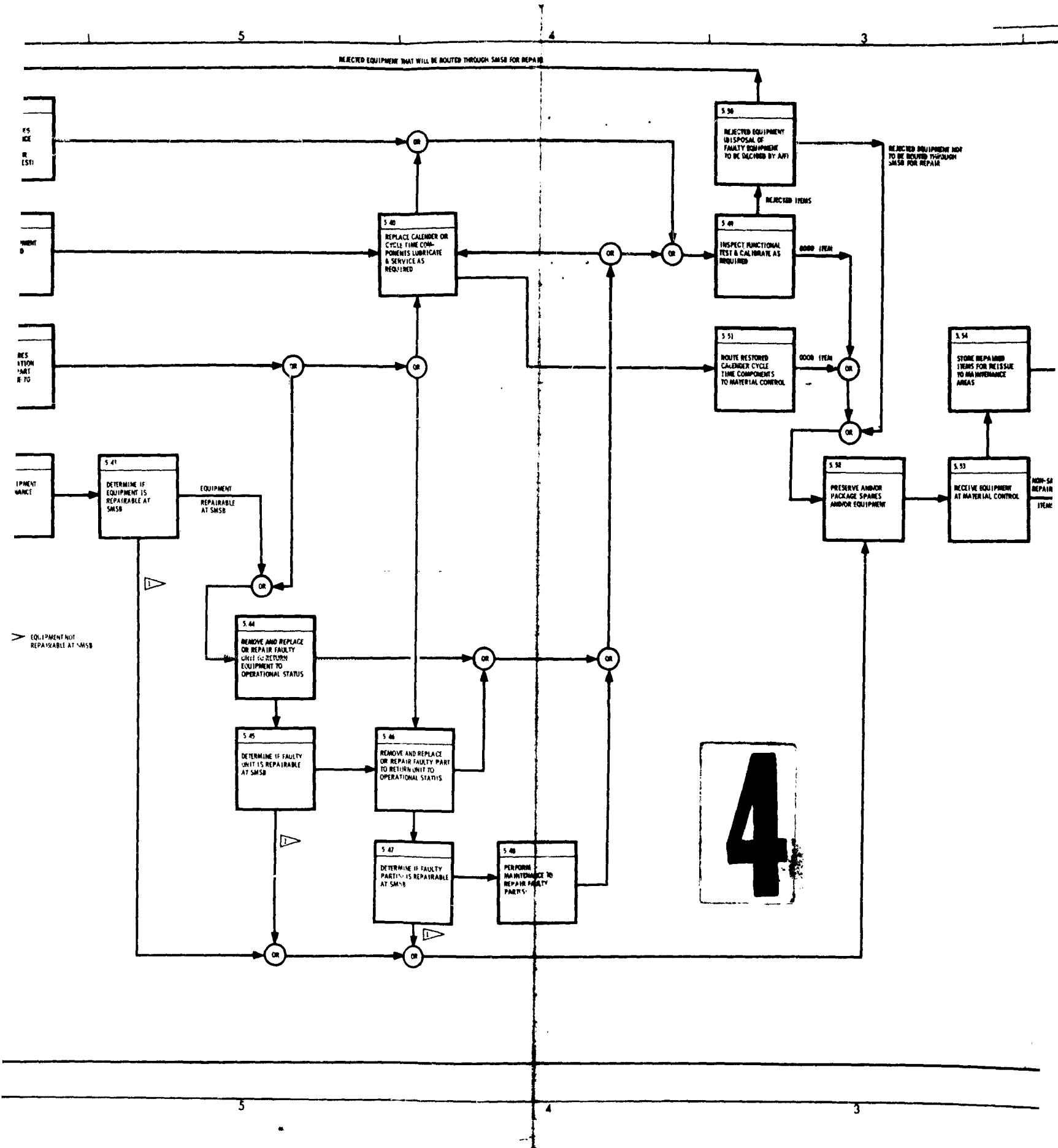
2

MB

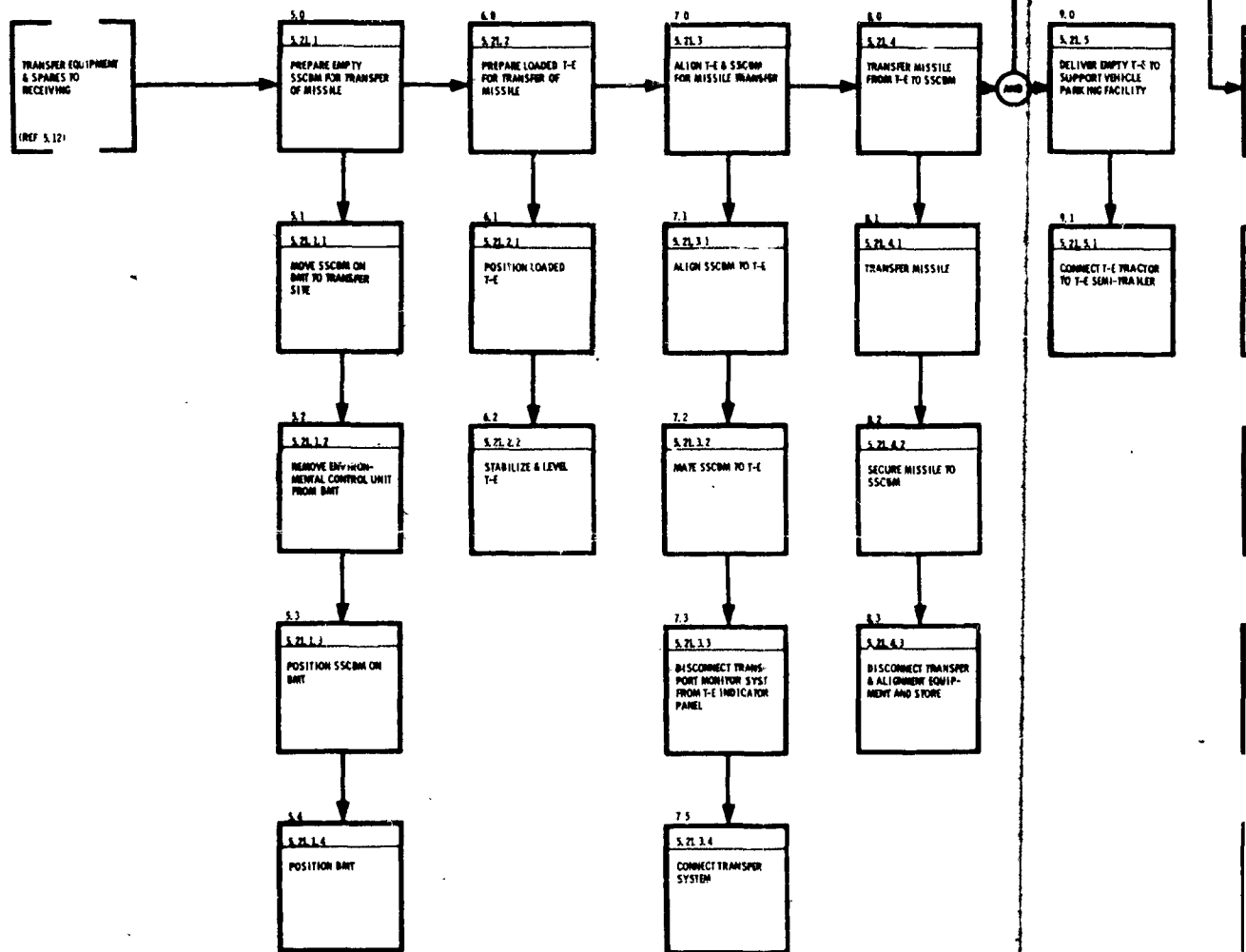
FORM C/C1

THIS SECTION OF FLOW WILL NOT
REQUIRE FORM B BACKUP



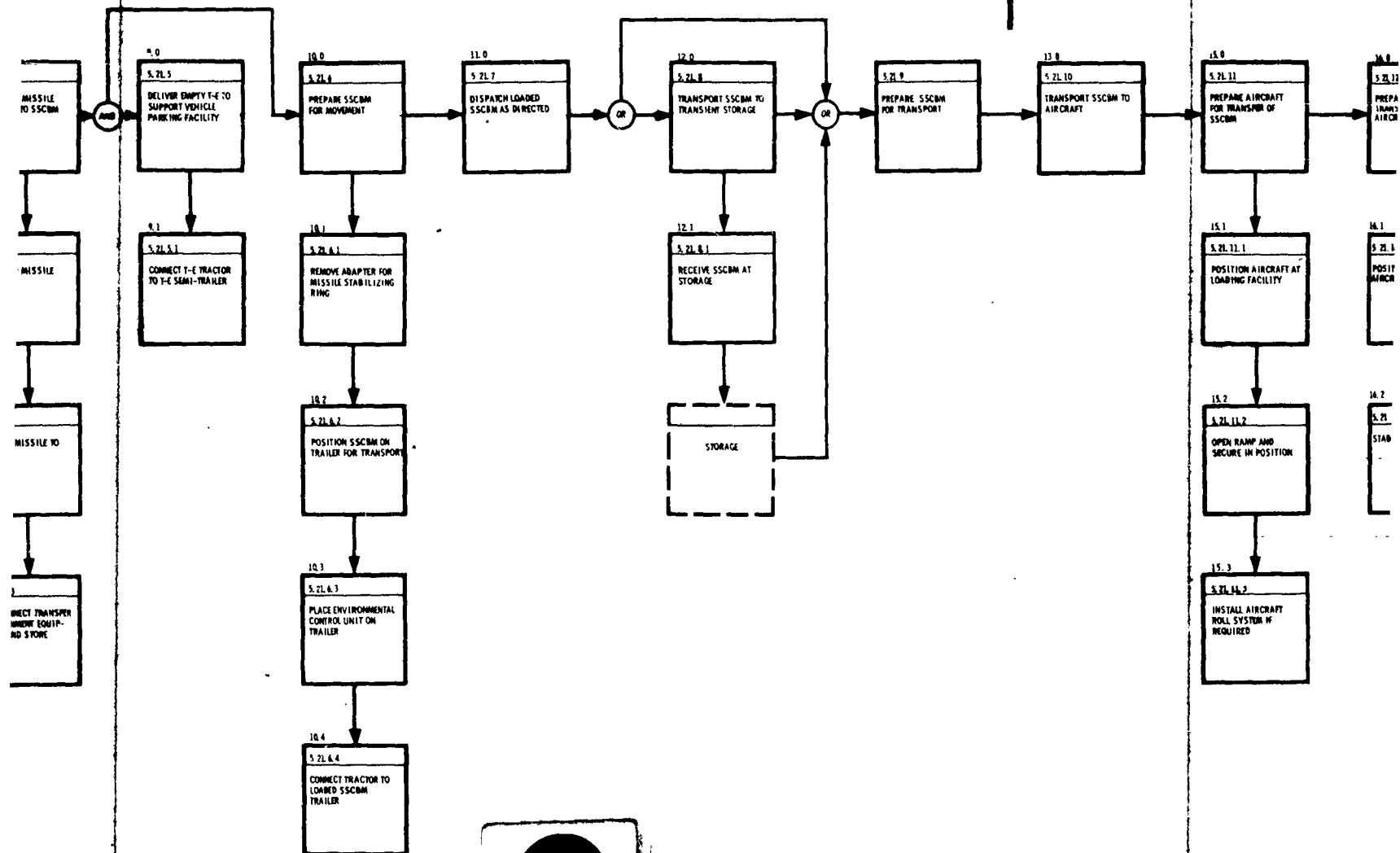


REV SYM C



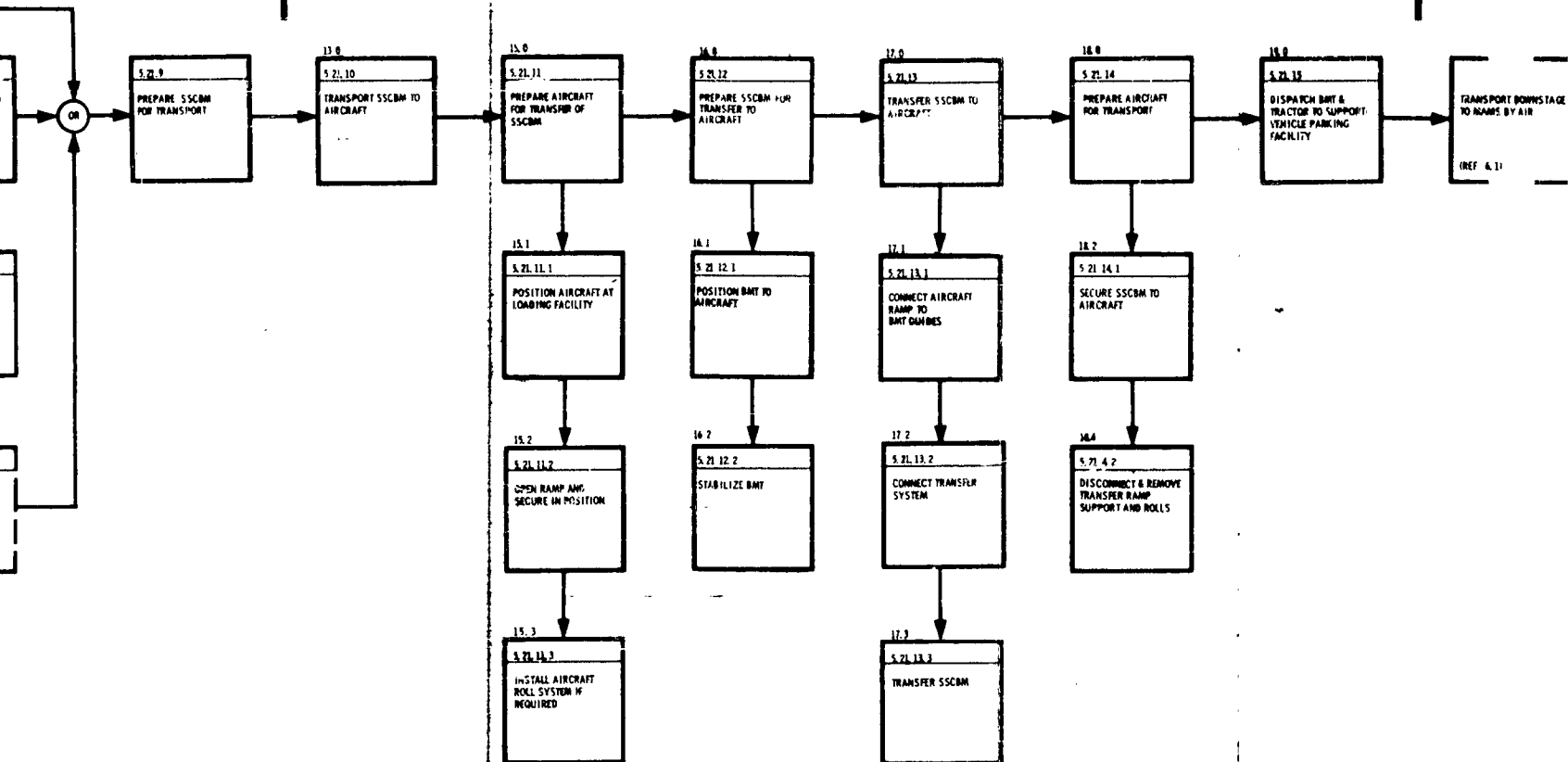
1

TRANSFER MISSILE FROM T-E TO SSCBM



2

LOAD SSCBM ON AIRCRAFT



3

NOTE
THIS IS
WING

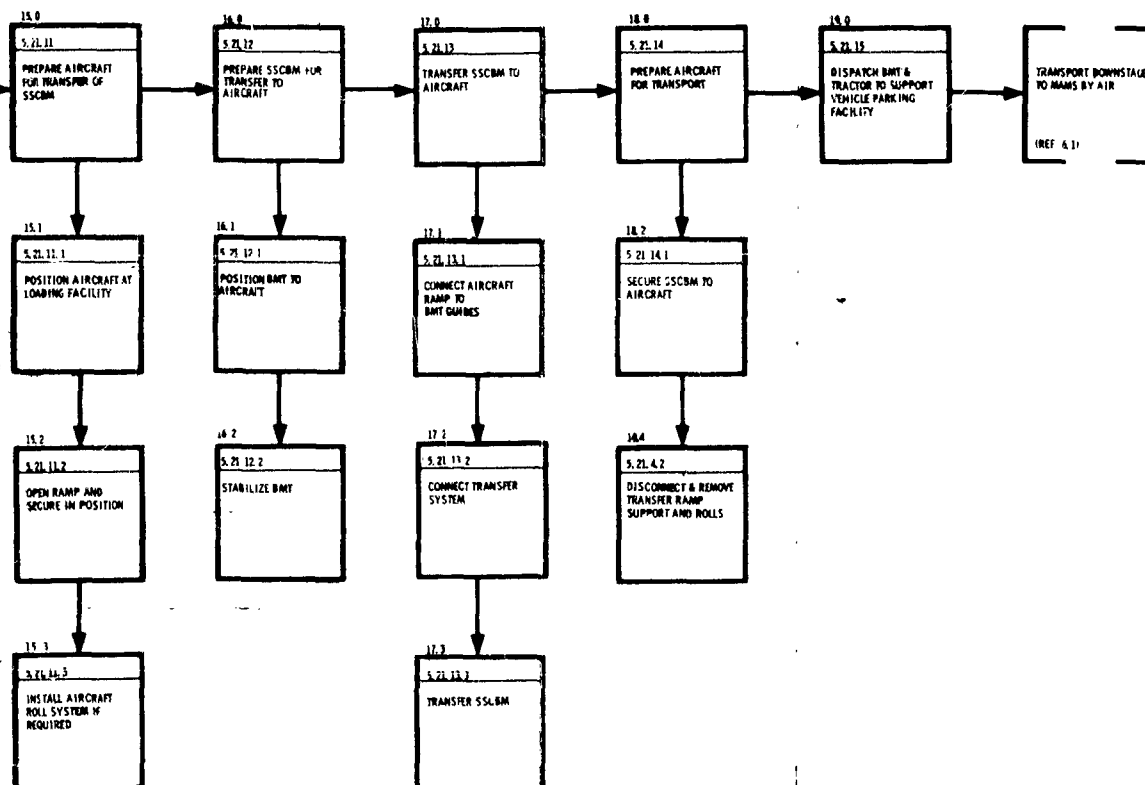
PW
PUN
25-3

SECRET

REVISIONS

REV 5X m C

LOAD SSCBM ON AIRCRAFT



4

NOTE

THIS DRAWING IS NOT IN ACCORDANCE WITH BSB FORM 1017 42-42 BECAUSE
WING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

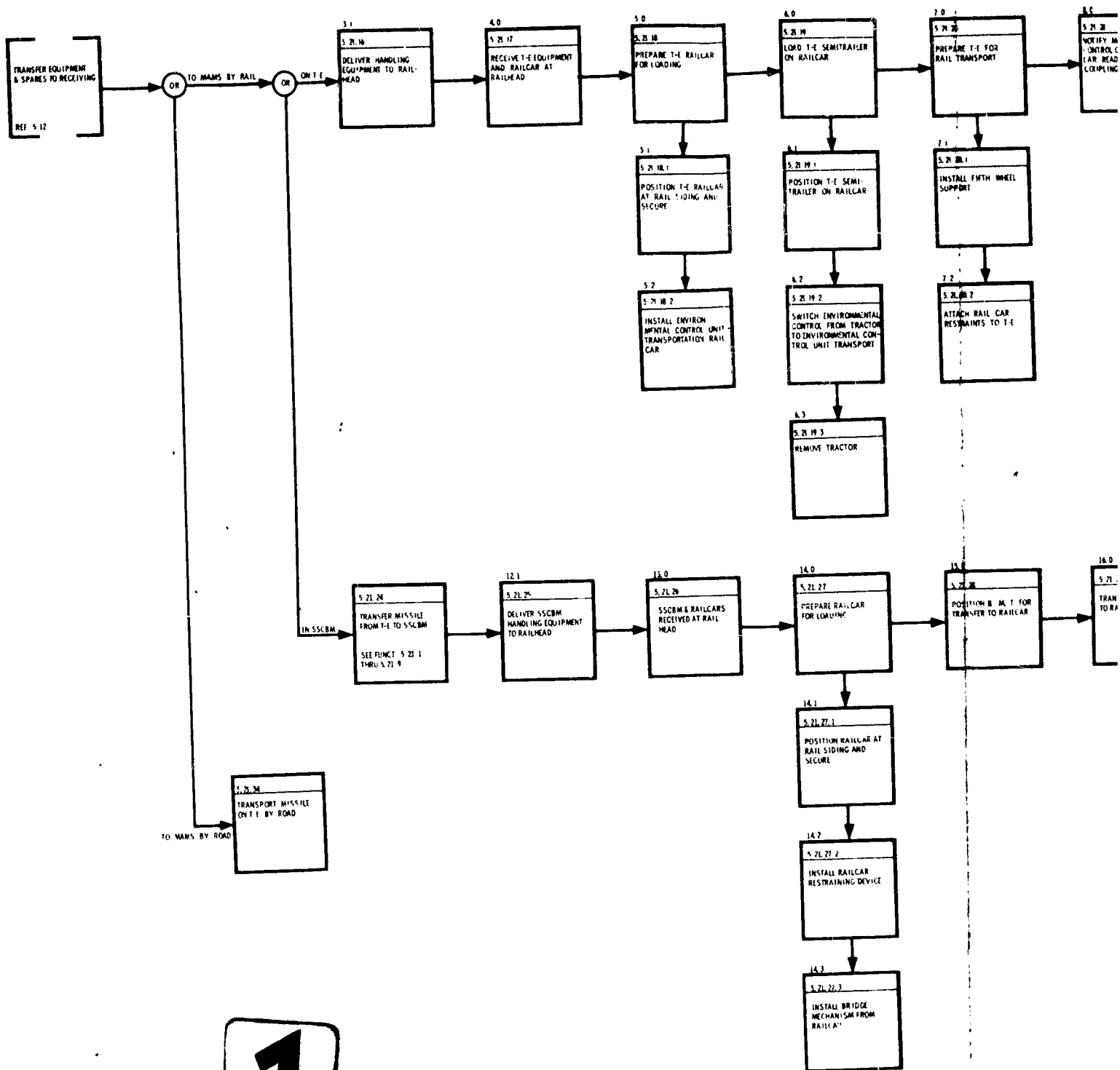
FUNCTION NUMBERS REFERENCED ABOVE
FUNCTION BLOCKS ARE FROM
25-10000 SHEET 2 WING 11

BOEING NO D2-30044-1B

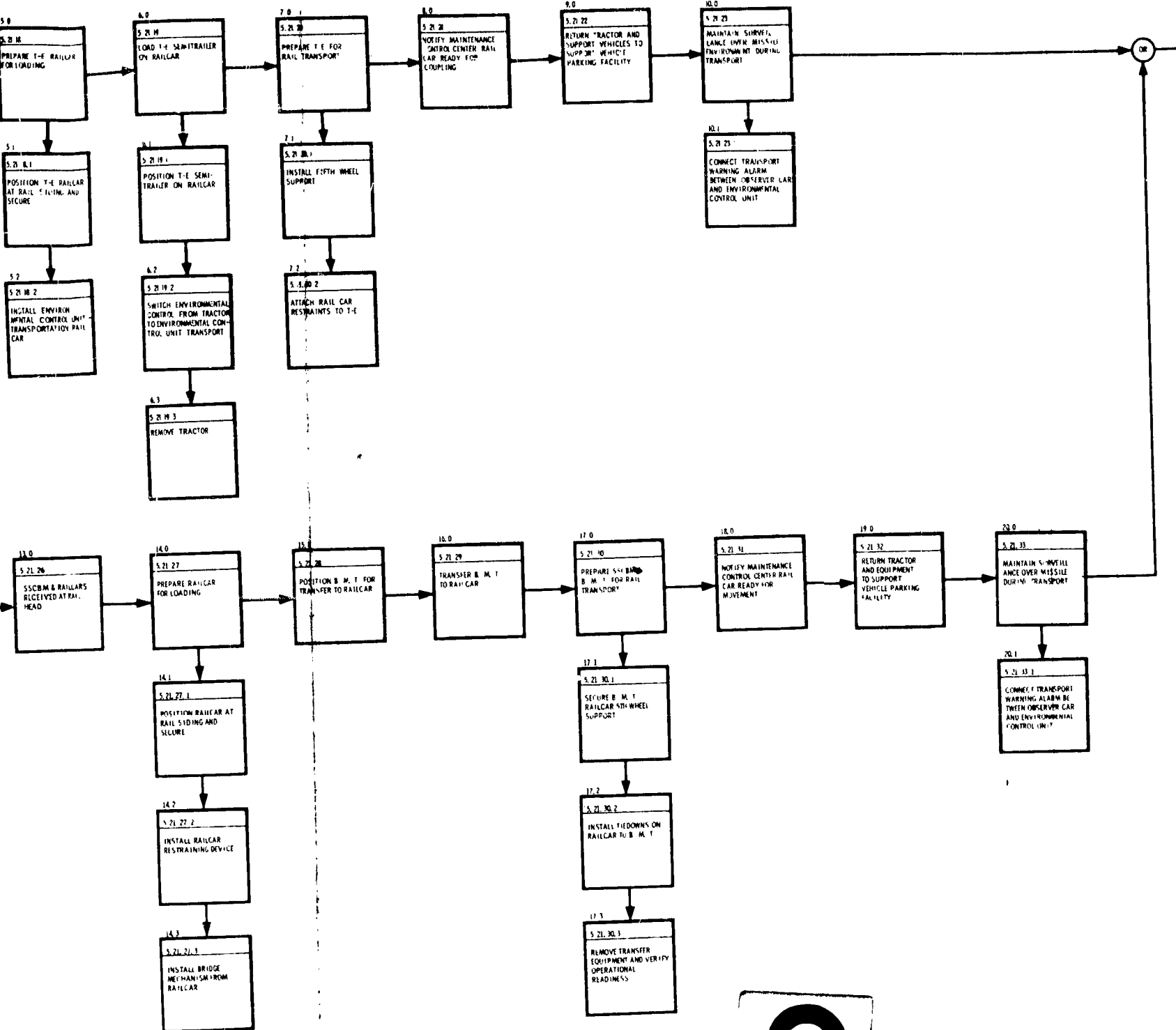
SEC. IV PAGE 45

BOEING		DRAWING PREPARED BY		SERGEANT WING XI	
DIVISION	DATE	AND-SPACE DIVISION		FLOW NAME	
				TRANSHIP MISSILE BOMBING	
				SHEET 2, FLOW NO. 5.21	

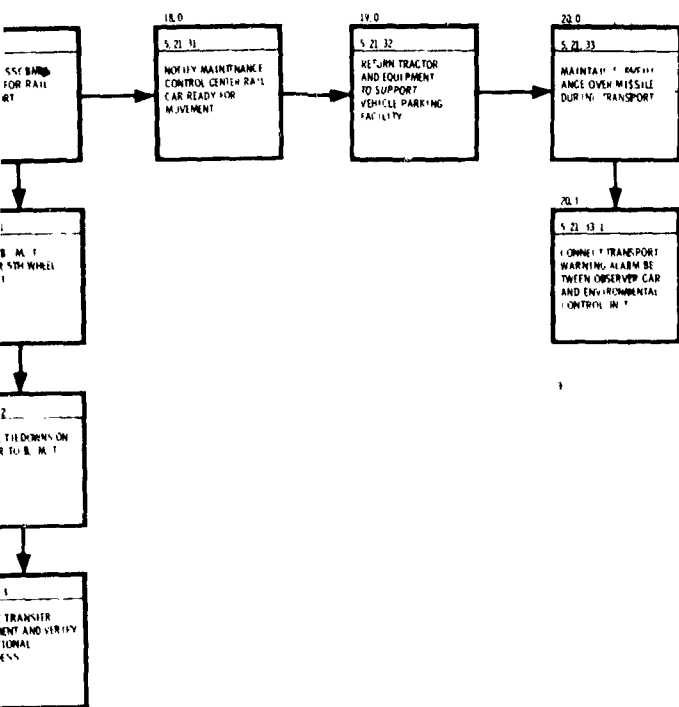
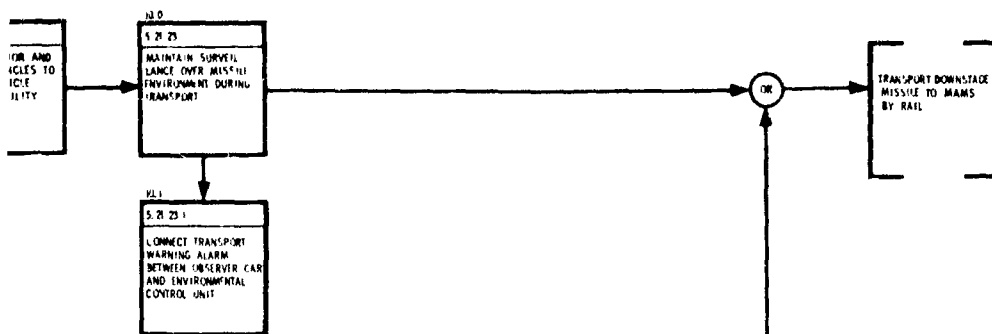
REV 5X m C



1



2



3

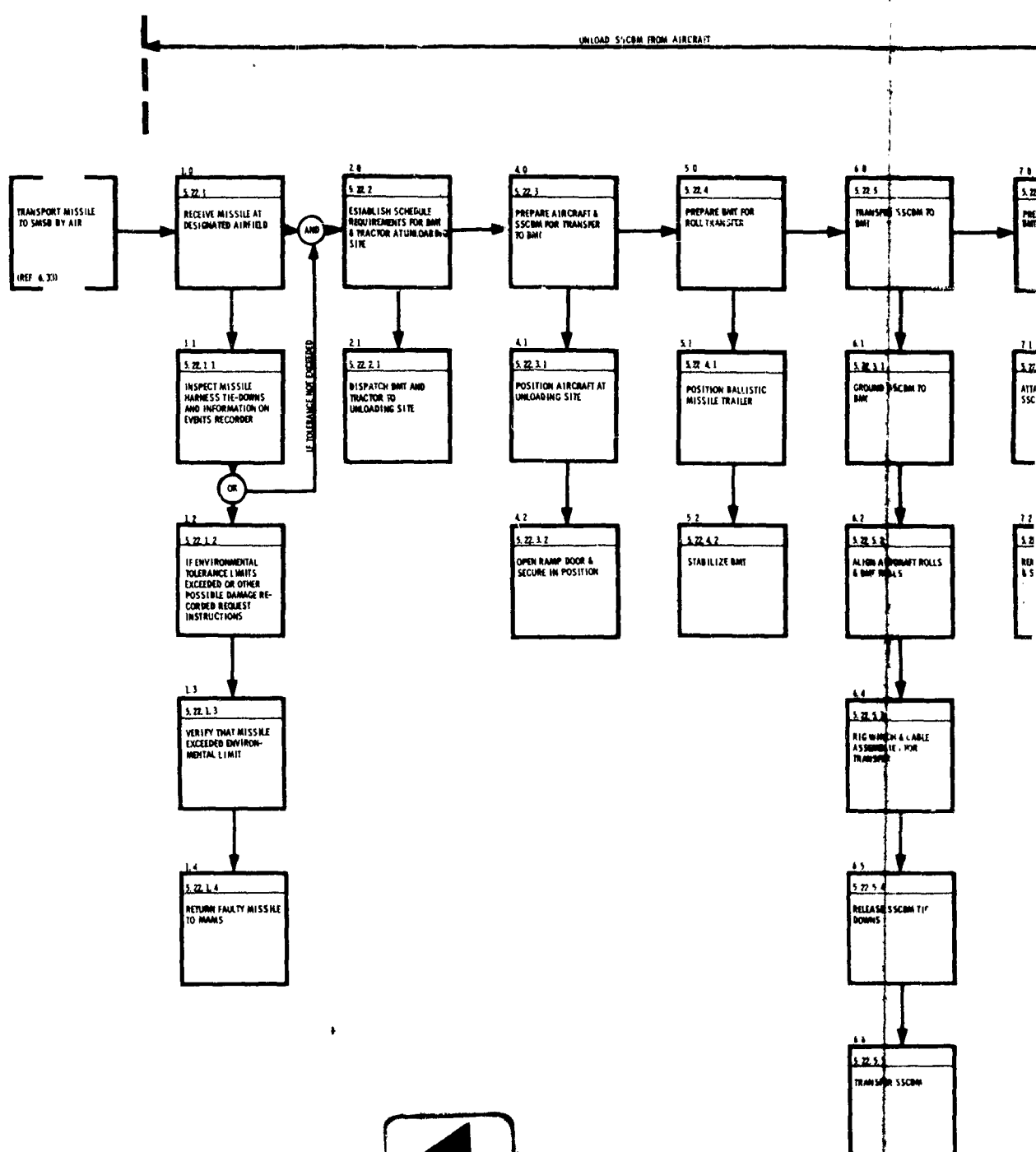
NOTE
THIS DRAWING IS NOT IN ACCORDANCE WITH BSO EXHIBIT 62-62 BECAUSE
WING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE

NOTE: FUNCTION NUMBERS REFERENCED ABOVE FUNCTION BLOCKS
ARE FROM 25-10004 SHEET 1 (WING 1)

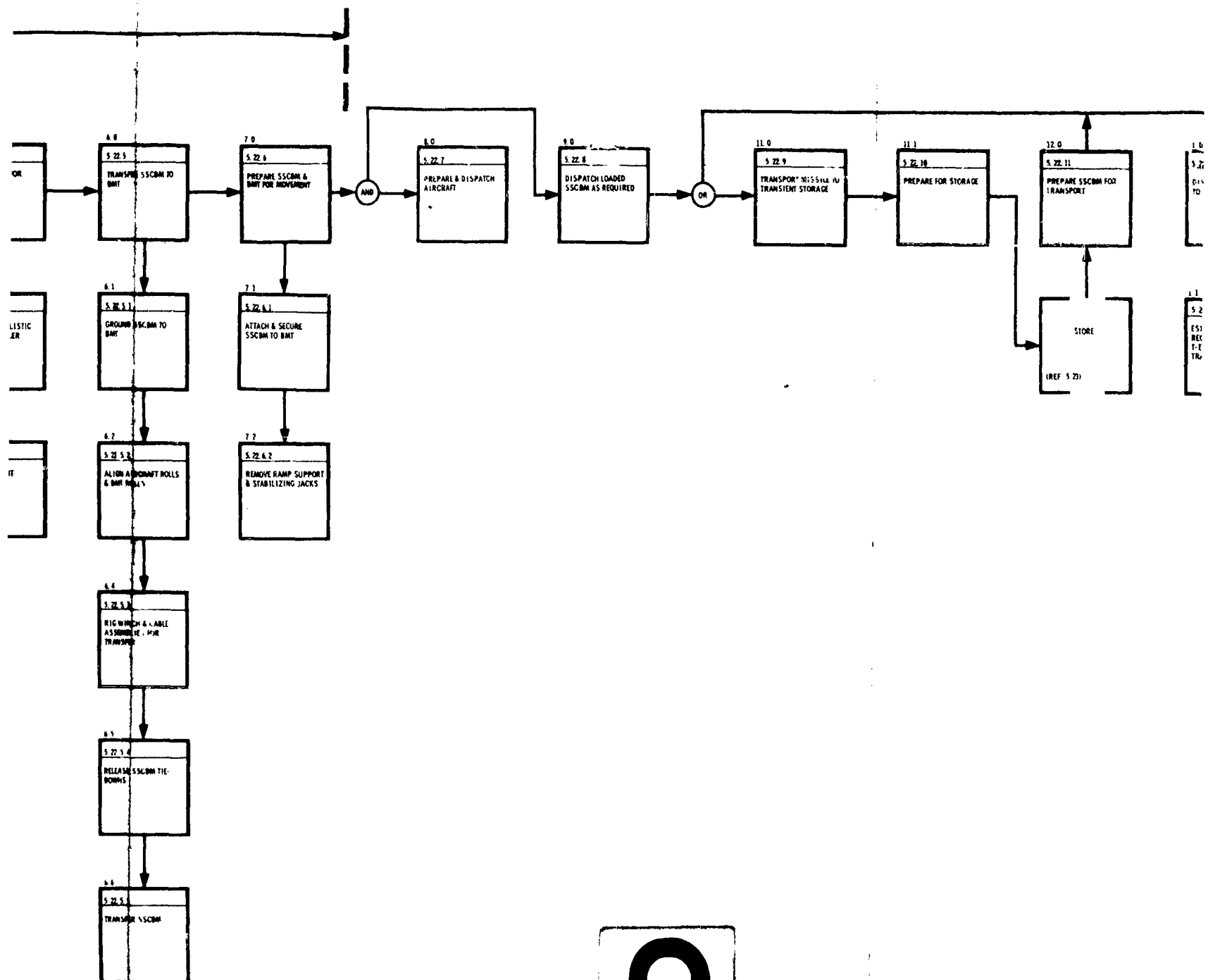
BOEING NO D2-30044-13
SEC IV PAGE 46

REV ym

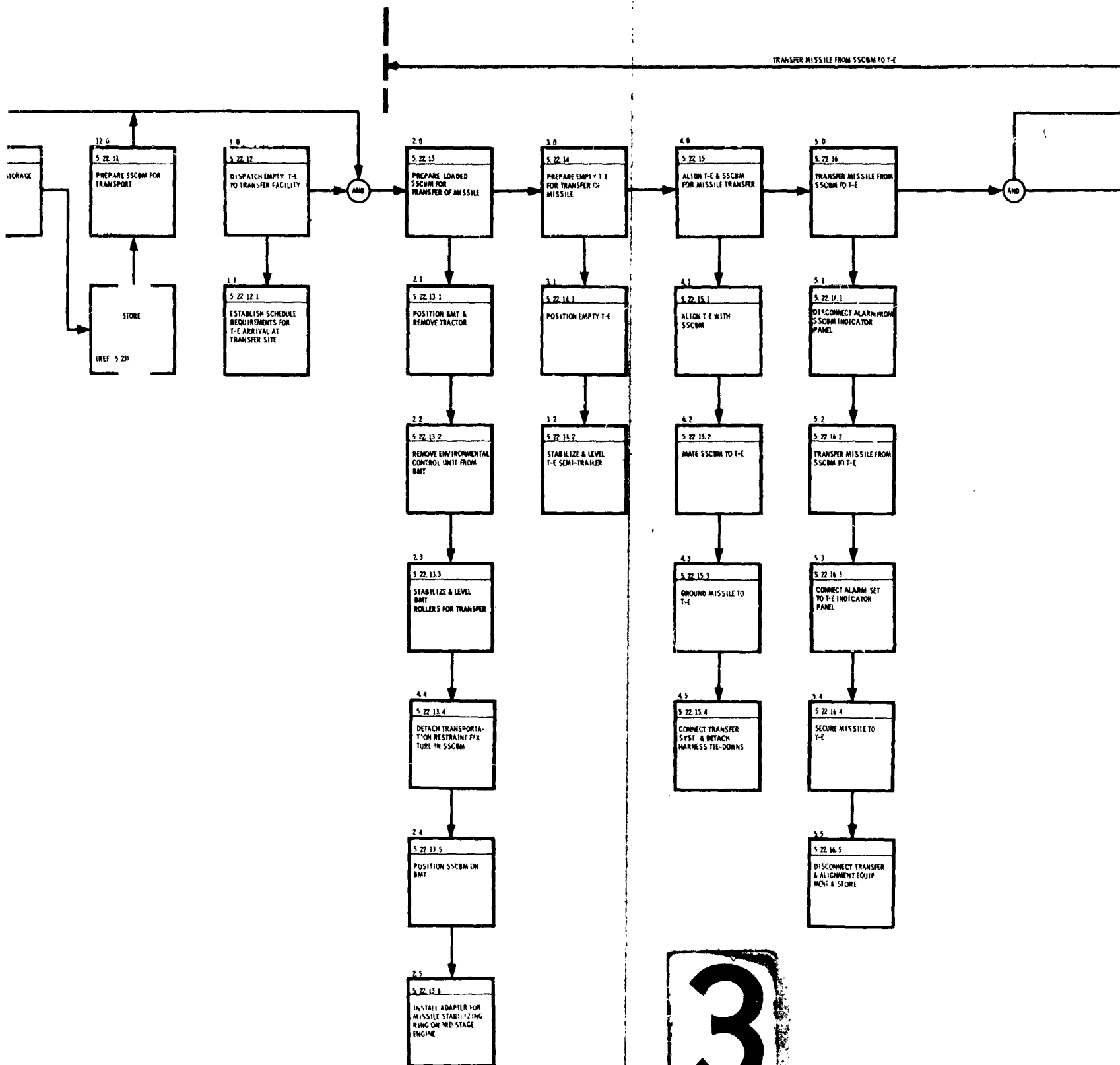
BOEING		DRAWING PREPARED BY		MINUTEMAN WING XI	
REVISION	DATE	BOEING		FLOW NAME	
		AERO-SPACE DIVISION		TRAN-SHIP MISSILE DOWNSTAGE	
		DRAWN	DATE	SHEET 2 FLOW NO. 5.21	
		CHECKED	DATE		
		GROUP	DATE		
		PROJECT	DATE		



1

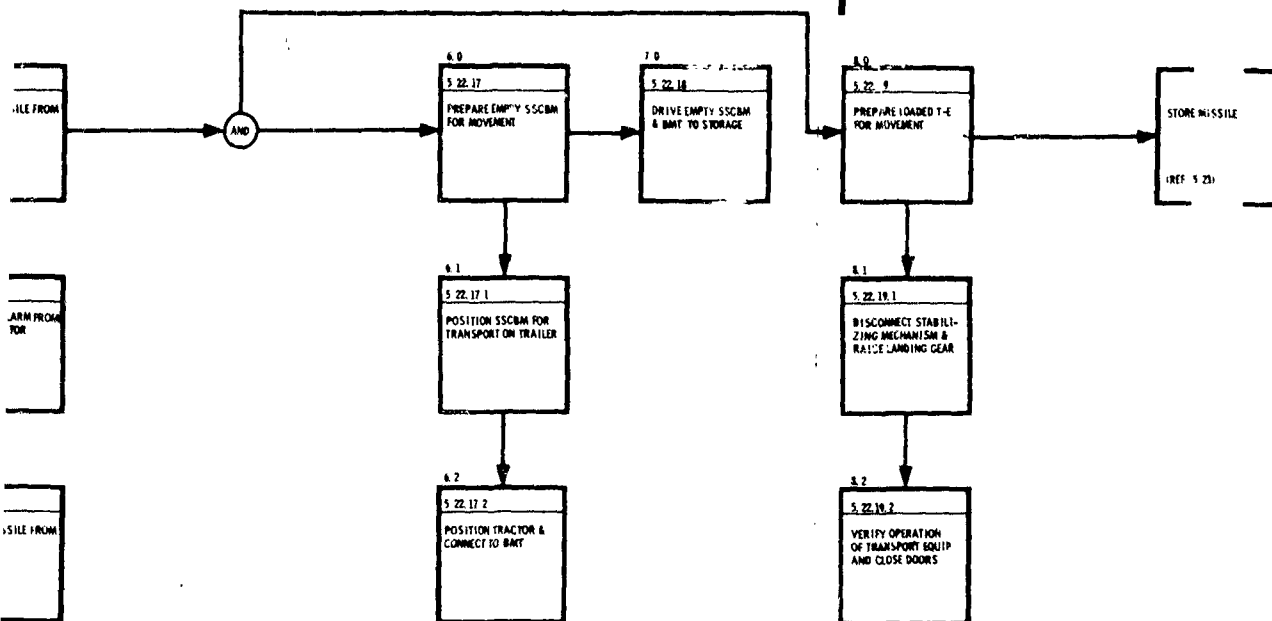


2



3

BM TO 1-4



4

NOTE

THIS DRAWING IS NOT IN ACCORDANCE WITH BSB EXP1017-02-02 B
USING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE

- FUNCTION NUMBERS ABOVE FUNCTION BOXES 5.22.1.1 THRU 5.22.1.4 ARE FROM DWG. 25-10004 (WING 1)
- FUNCTION NUMBERS ABOVE FUNCTION BOXES 5.22.12 THRU 5.22.14 ARE FROM DWG. 25-21009 (WING 1)

REVISED

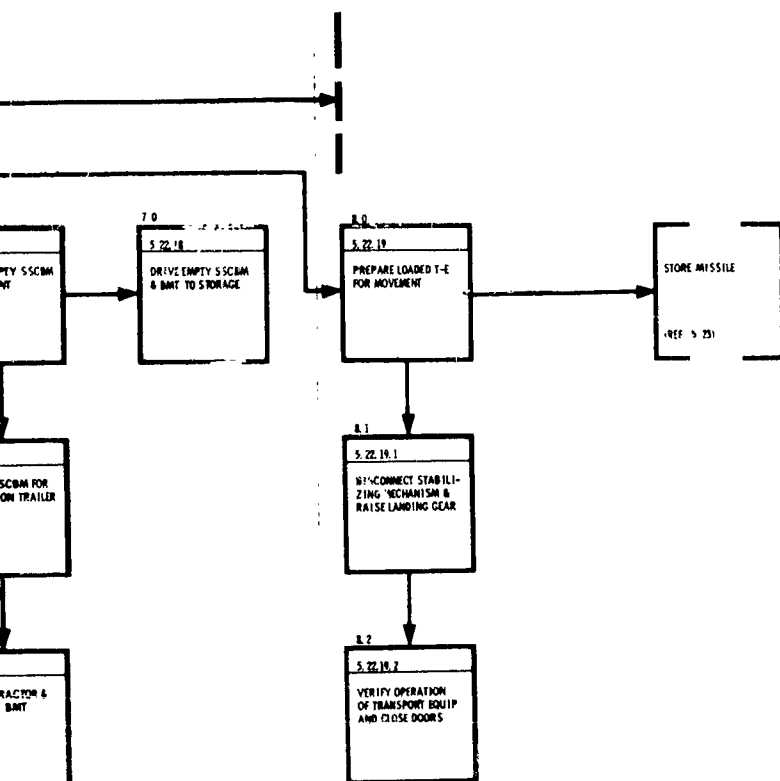
NO D2-30044-1B
SEC IV PAGE 47

REVISION		DATE	BY	CHKD	DATE	BY	CHKD

DRAWING PREPARED BY
AERO-SPACE DIVISION

MINUTEMA
FLOW NAME
RECEIVE MESSAGE
FROM MAINS

SH 1 OF 2



5

NOTE

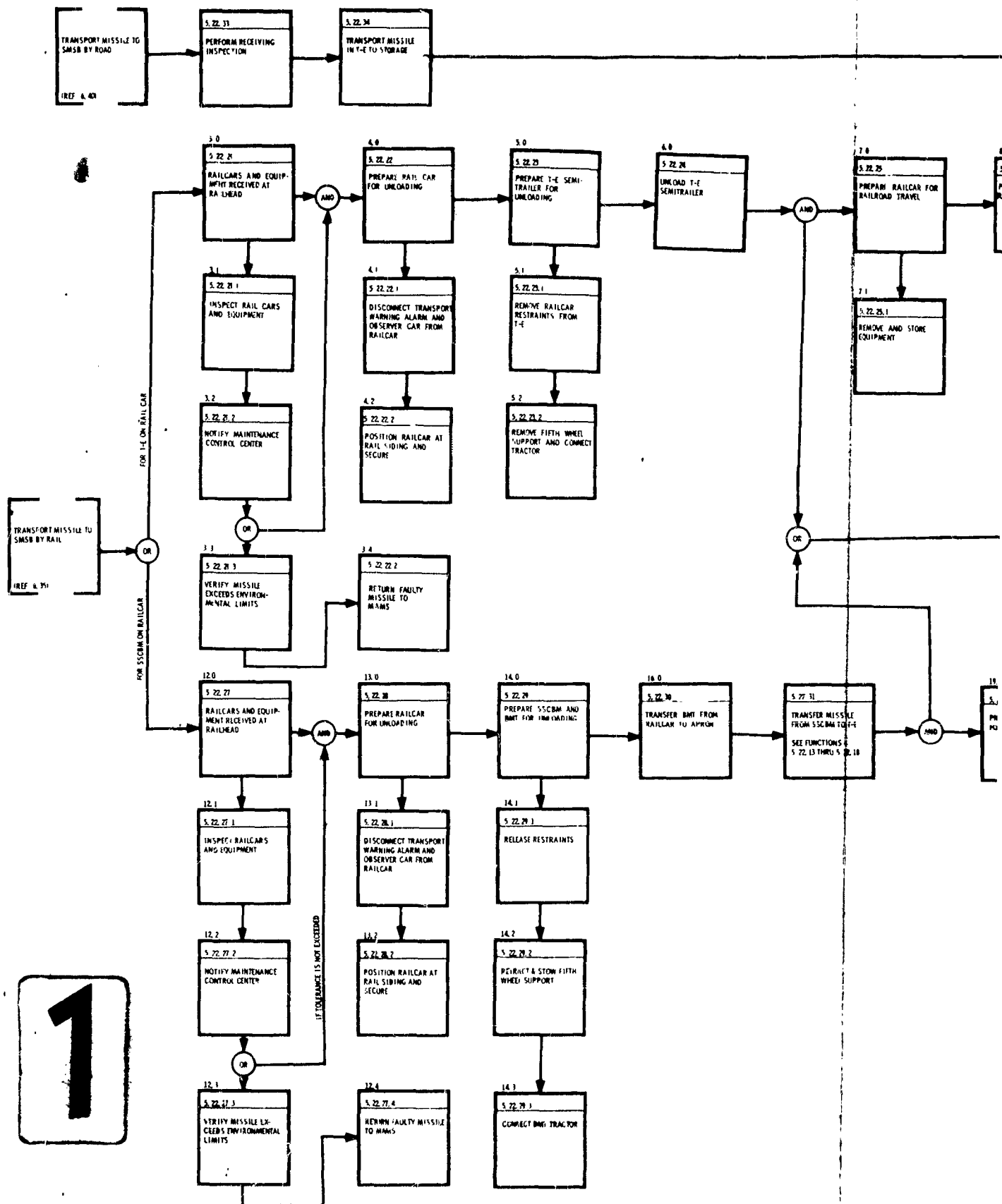
THIS DRAWING IS NOT IN ACCORDANCE WITH BSO EXHIBIT 60-62 BECAUSE WING I FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

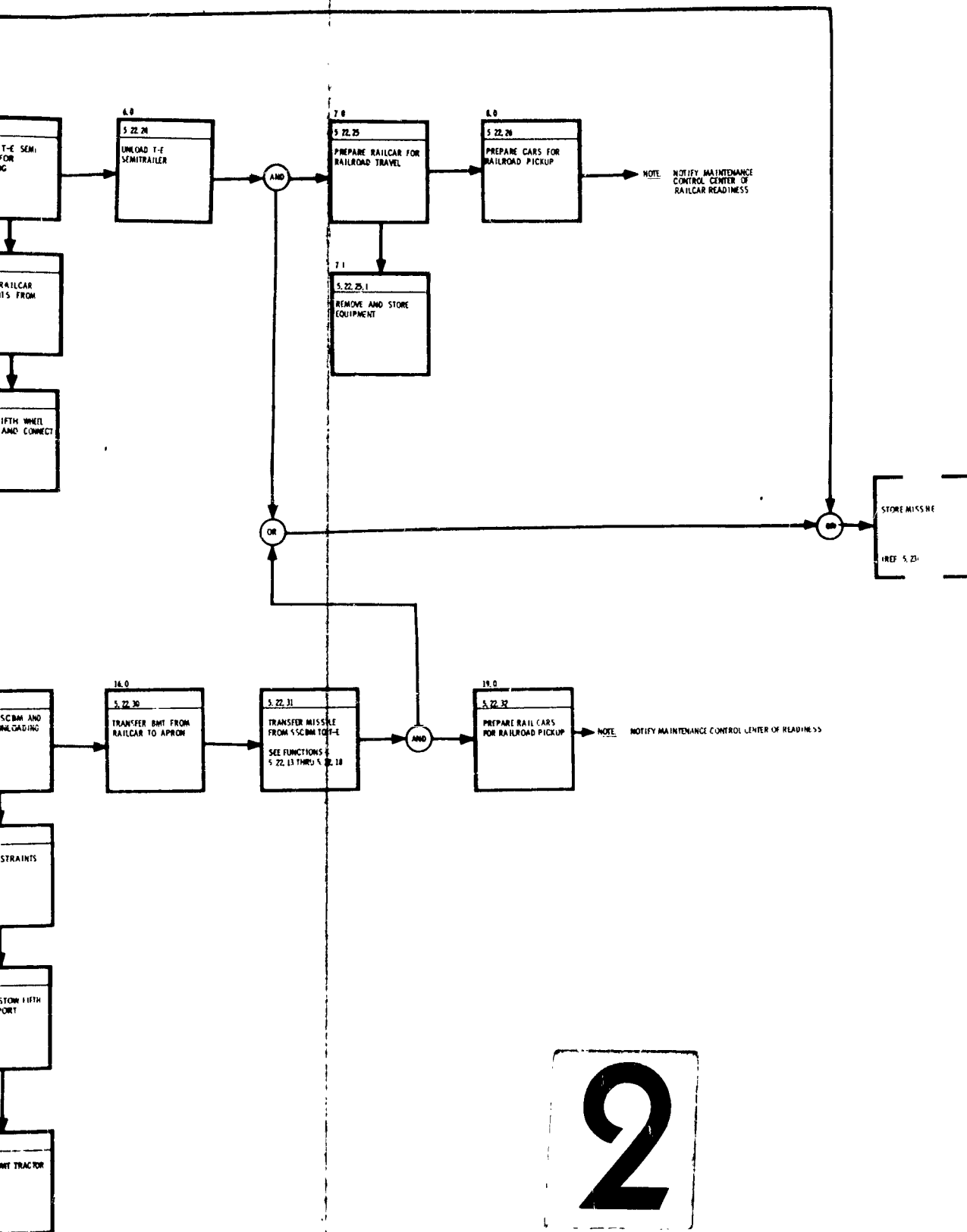
- FUNCTION NUMBERS ABOVE FUNCTION BOXES 5.22.1.1 THRU 5.22.1.11 ARE FROM DWG. 25-1804A SMT 4 (WING I)
- FUNCTION NUMBERS ABOVE FUNCTION BOXES 5.22.12 THRU 5.22.20 ARE FROM DWG. 25-21099 (WING I)

REVISED

BOEING	NO	D2-30044-1B
	SEC. IV	PAGE 47

BOEING		DRAWING PREPARED BY		MINUTEMAN WING II	
REVISION	DATE	BOEING		FLOW NAME	
		AERO-SPACE DIVISION		RECEIVE MISSILE BOMBS/STAGE	
		DRAWN		FROM INMANS	
		CHECKED			
		PROJECT		SH 1 OF 2 FLOW NO. 5.22	





NOTIFY MAINTENANCE
CONTROL CENTER OF
RAILCAR READINESS

STORE MISSILE

(REF. 5, 23)

MAINTENANCE CONTROL CENTER OF READINESS

3

NOTE

THIS DRAWING IS NOT IN ACCORDANCE WITH BSO EXHIBIT 42-42 BECAUSE
WING 1 FUNCTIONAL FLOW DATA HAS BEEN USED WHERE POSSIBLE.

FUNCTION NUMBERS ABOVE FUNCTION BOXES ARE
FROM DRAWING 25-1000A SHY 5 OF WING 1

BOEING

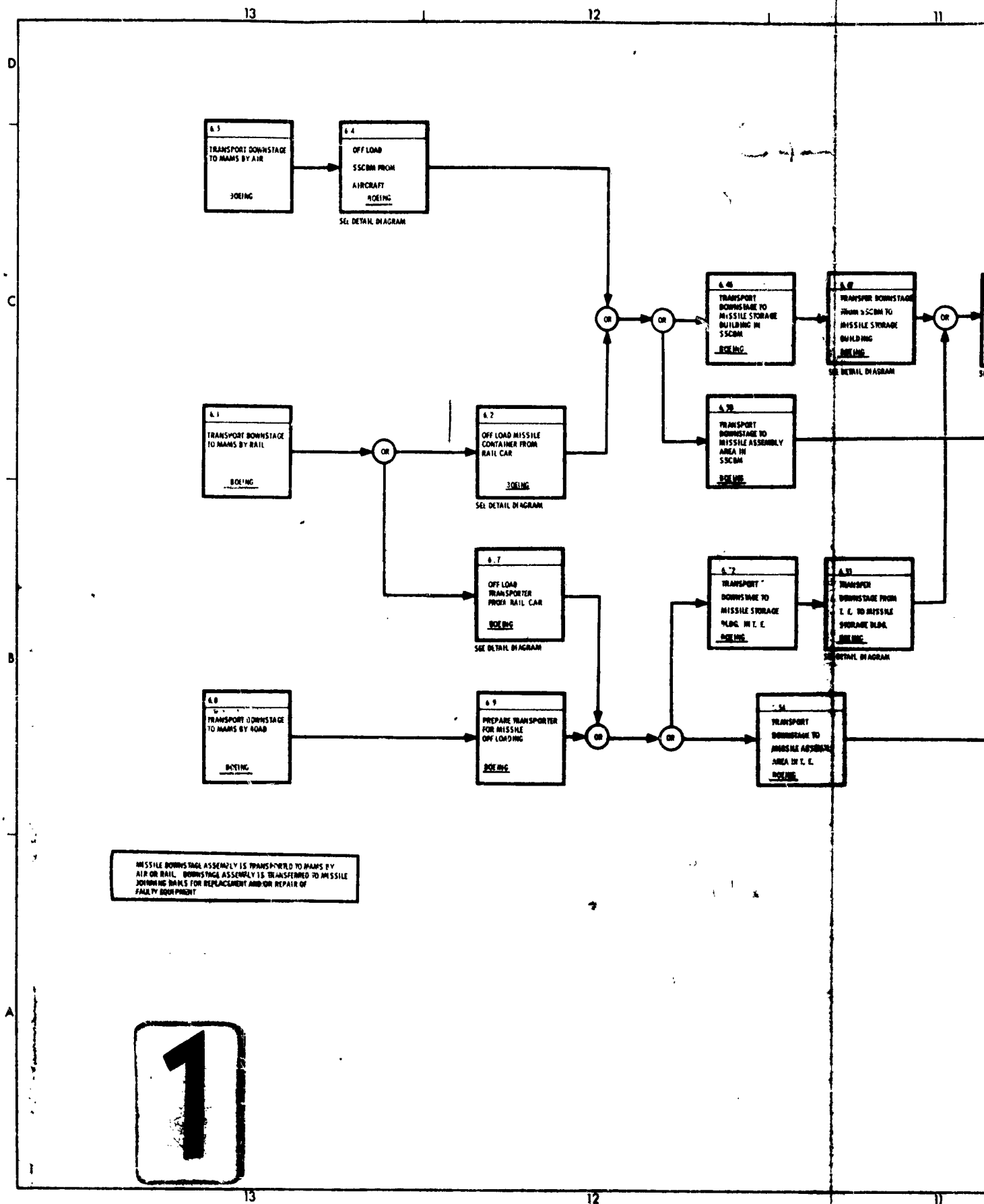
NO D2-30044-1B

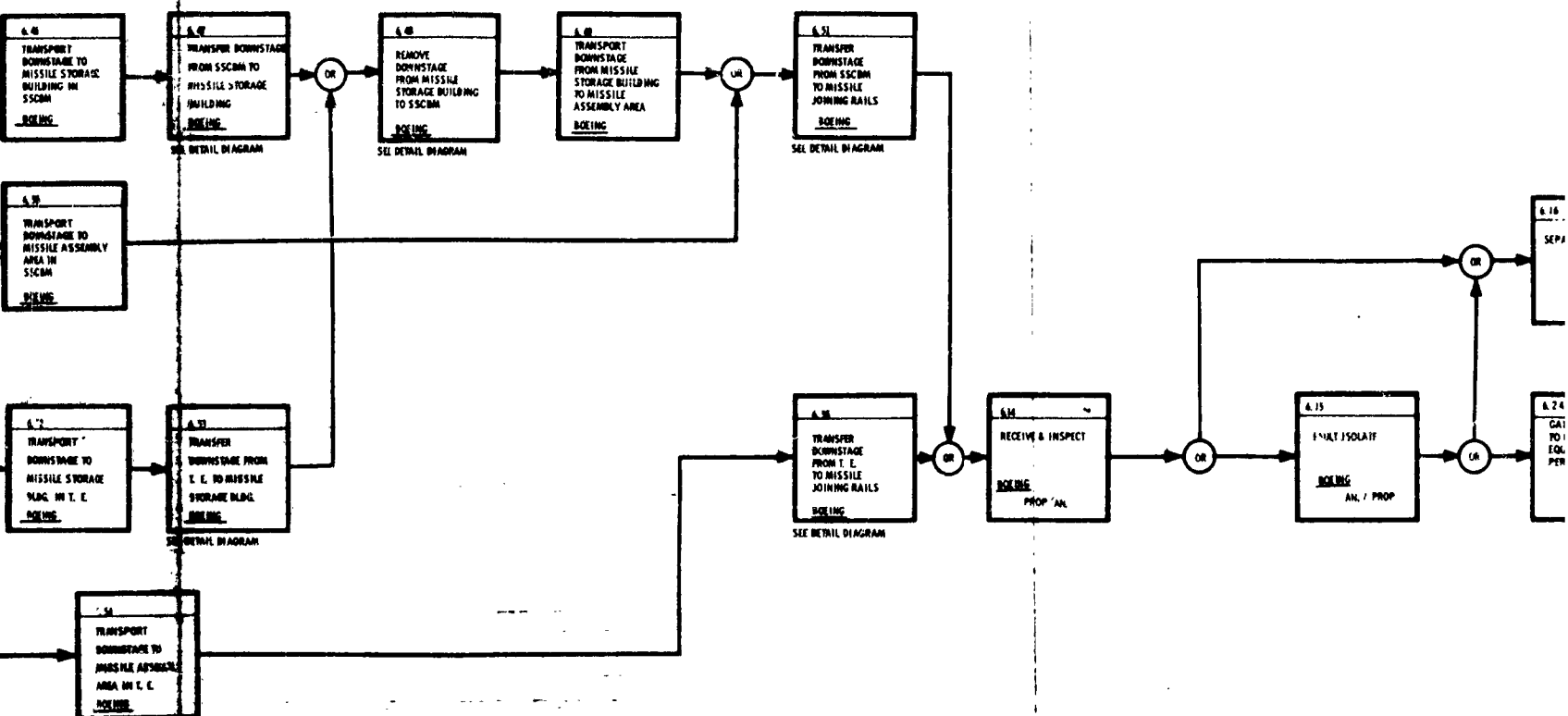
SEC. IV

PAGE 48

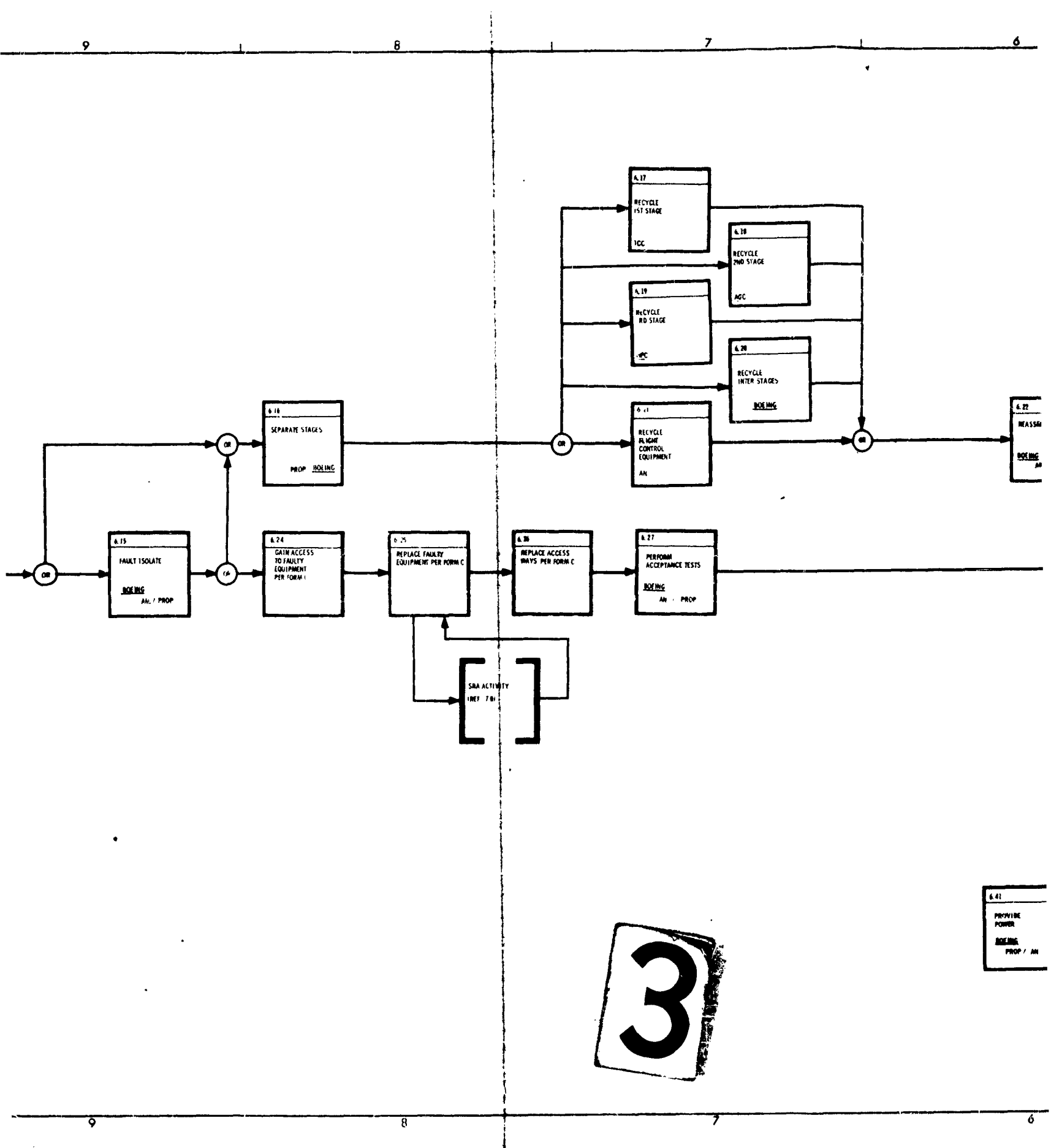
REV SYM 1

BOEING		DRAWING PREPARED BY		MINUTEMAN WING XI	
REVISION	DATE	BOEING		FLOW NAME	
		AERO-SPACE DIVISION		RECEIVE MISSILE DOWNSTAGE FROM MAAMS	
		CREATING	DATE		
		CHECKED	DATE		
		APPROVED	DATE		
				SH 2 OF 2 FLOW NO. 5 22	

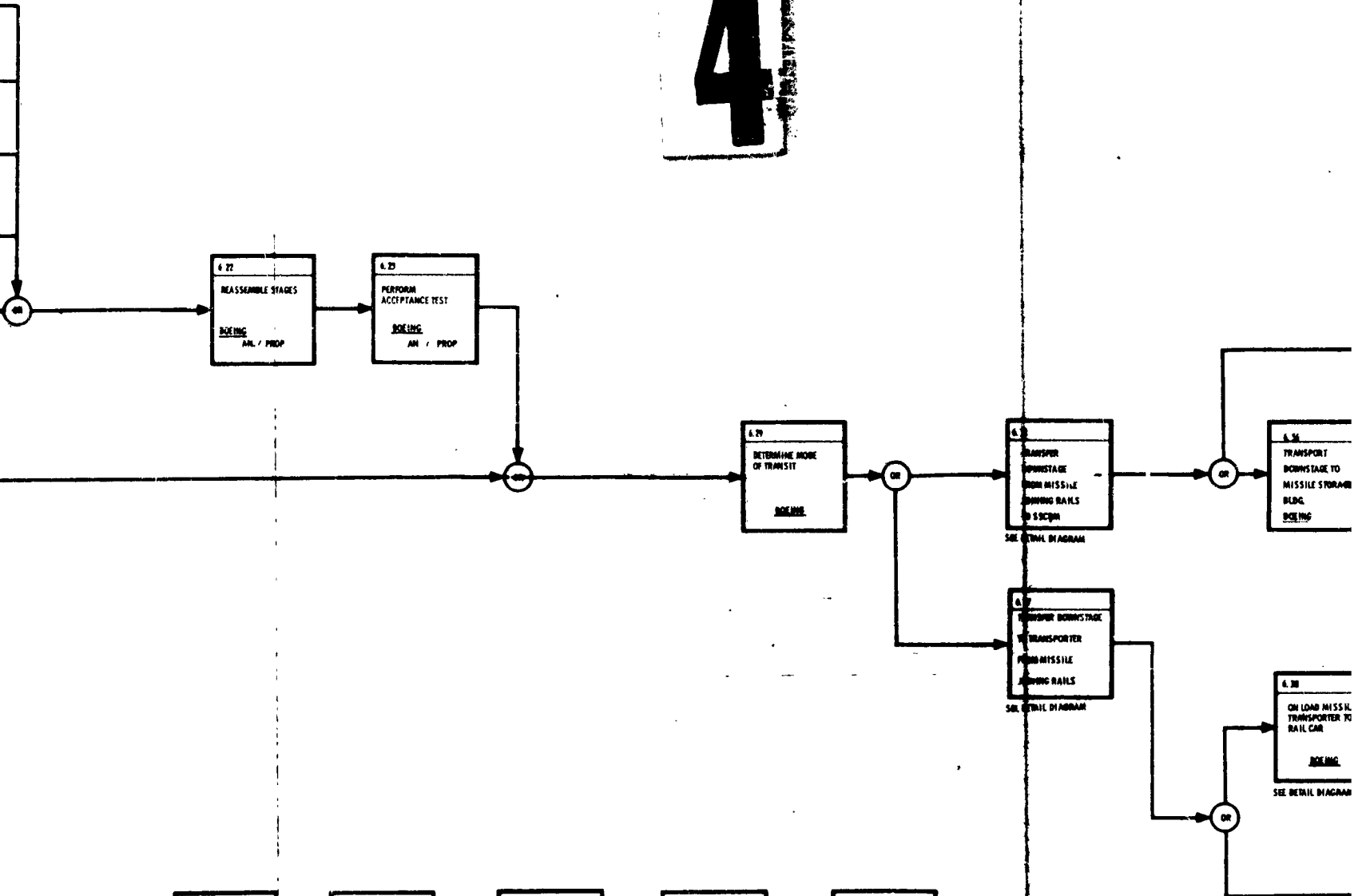




2



4



6.41
PROVIDE POWER
BOEING
PROP / AM

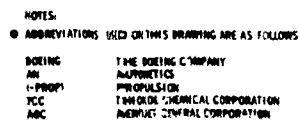
6.42
PROVIDE ENVIRONMENT
BOEING
PROP / AM

6.43
PROVIDE LIFE SUPPORT
BOEING

6.44
PROVIDE SECURITY
BOEING

6.45
PROVIDE CABLING
BOEING
PROP / AM





● PRIME RESPONSIBILITY FOR COLLATION OF ANALYSIS DATA, FOR A FUNCTION IS INDICATED BY UNDERLINING OF ASSOCIATE CONTRACTOR

~~SECRET~~ | NO D2-30044-1B

SEC. IV

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REV SYM C

ADDRESS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	ORDERED BY:	ORDERMAN WHO PLAN NAME:
	ORDER NO.	ORDERMAN / RE-CYCLE REASON:
IN OF	PLAN NO. 6.0	