

Systems Data Book

**Requires Drawings from
Space Shuttle Systems Handbook**

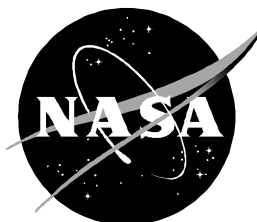
**Mission Operations Directorate
Systems Division**

**Generic, Rev A
April 20, 1992**

NOTE
For STS-49 and subsequent flights

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas



United Space Alliance



SYSTEMS DATA BOOK	GENERIC, Rev A (Apr 20, 1992)
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PCN-11 (Oct 29, 2000) Sheet 1 of 1

List of Implemented Change Requests (482s):

SYS-056(S)**
SYS-057

**Requested change was superseded prior to implementation

Incorporate the following:

1. Replace iii thru vi
2. Replace 1-1 and 1-2
After 1-2, delete 1-3 thru 1-26

NOTE
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Approved by: _____
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Encl: 6 pages

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SYSTEMS DATA BOOK

GENERIC, REVISION A
April 20, 1992

PREPARED BY:

Anna G. Lyon
Book Manager

Alan L. Simon
Technical Representative

APPROVED BY:

Paul M. Joyce
Head, Electrical Systems Section

James E. Saultz, Sr.
Chief, Electrical & Environmental
Systems Branch

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	SYS-28*	
	SYS-29*	
	SYS-30A	
	SYS-31(P)	

*Previously implemented

AREAS OF TECHNICAL RESPONSIBILITY

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NOTE

All schematics from the Space Shuttle Systems Handbook are flown in electronic format only. The current flown version of the Space Shuttle Systems Handbook is Rev F, DCN-5

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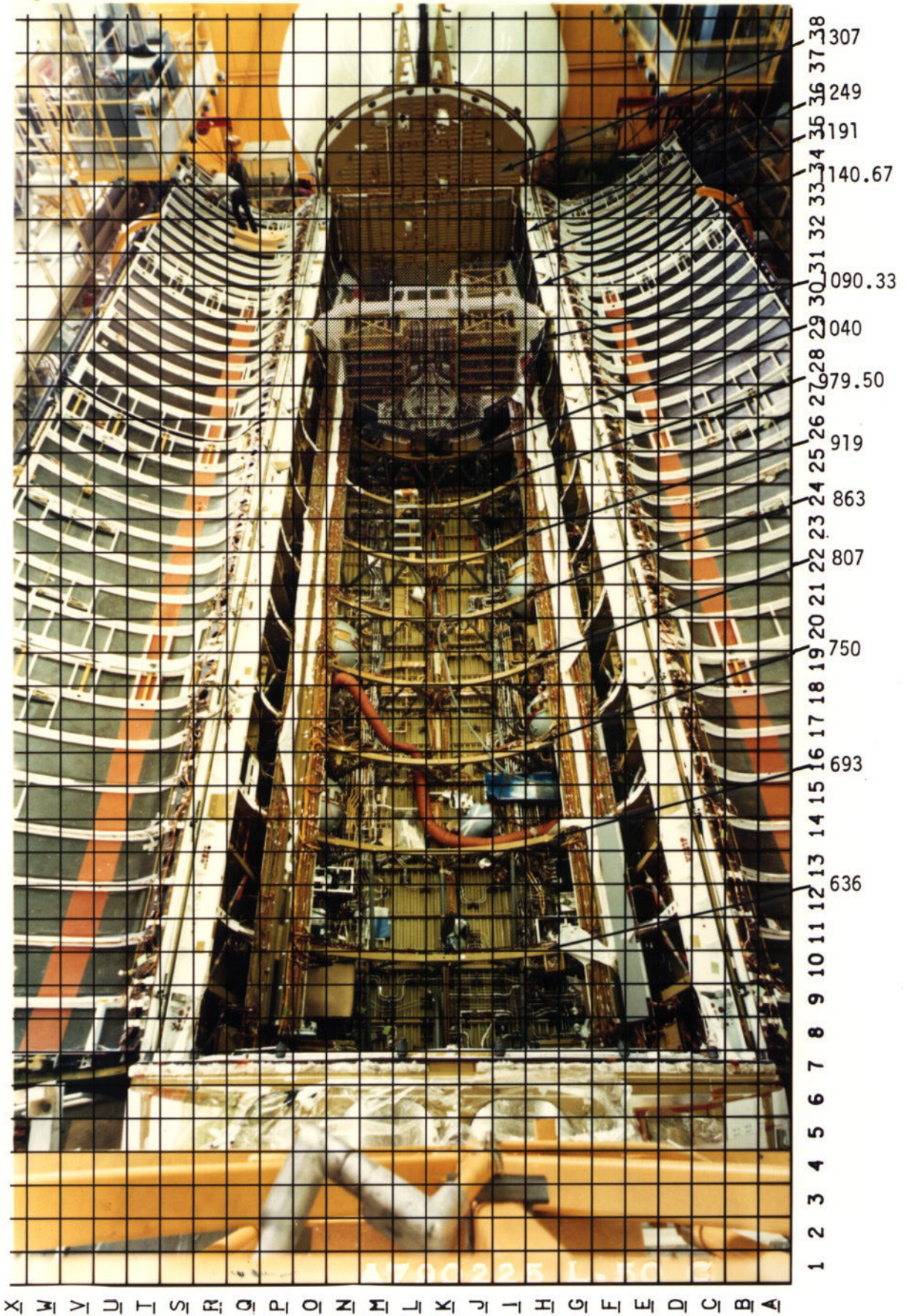
PAYLOAD BAY COMPONENTS PRIOR TO INSULATION INSTALLATION

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COMPONENTS -
PRE-INSULATION

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PAYLOAD BAY OVERVIEW

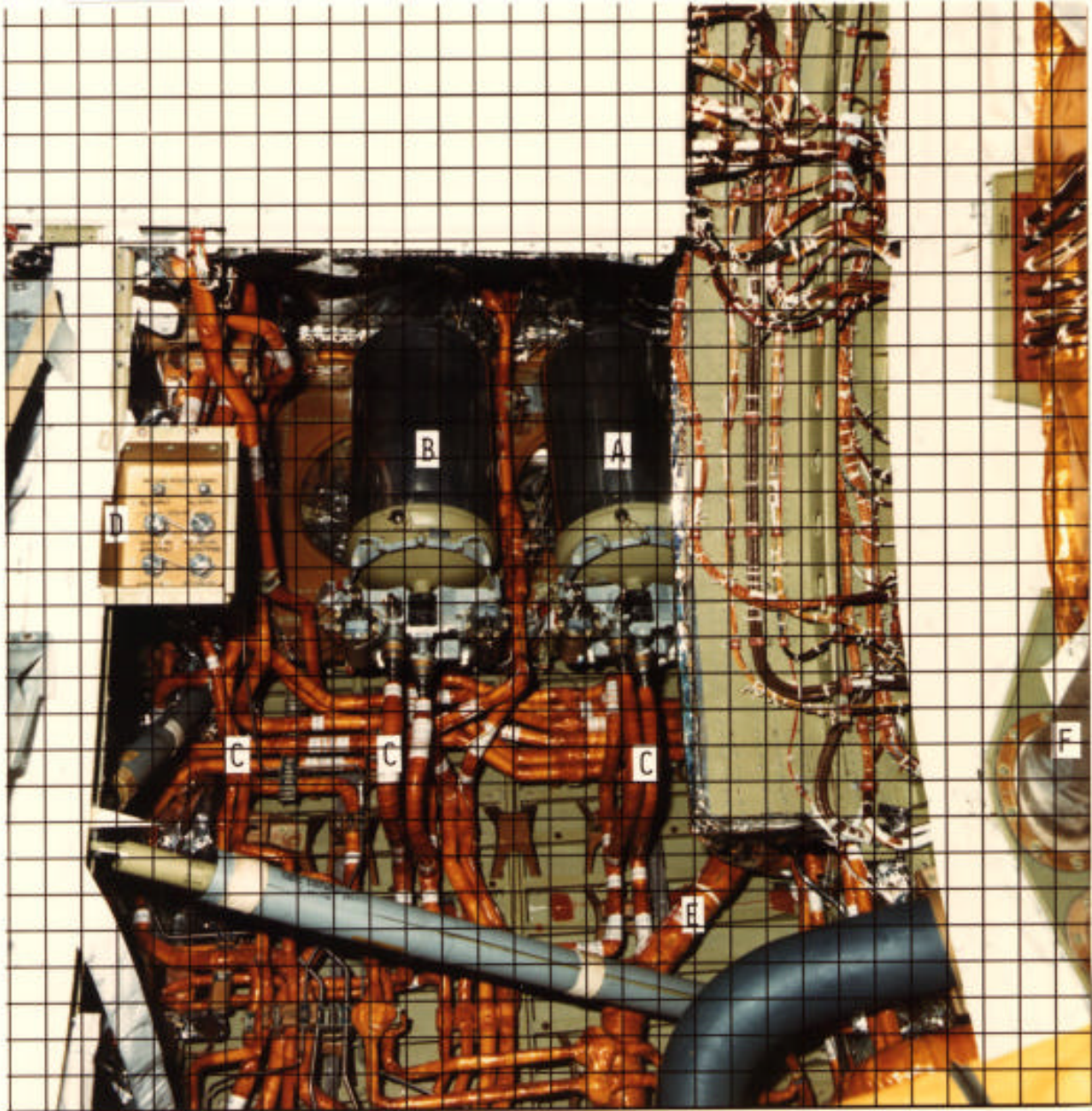


LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 582$ to 636)

FWD →

$X_0 = 636$

$X_0 = 582$

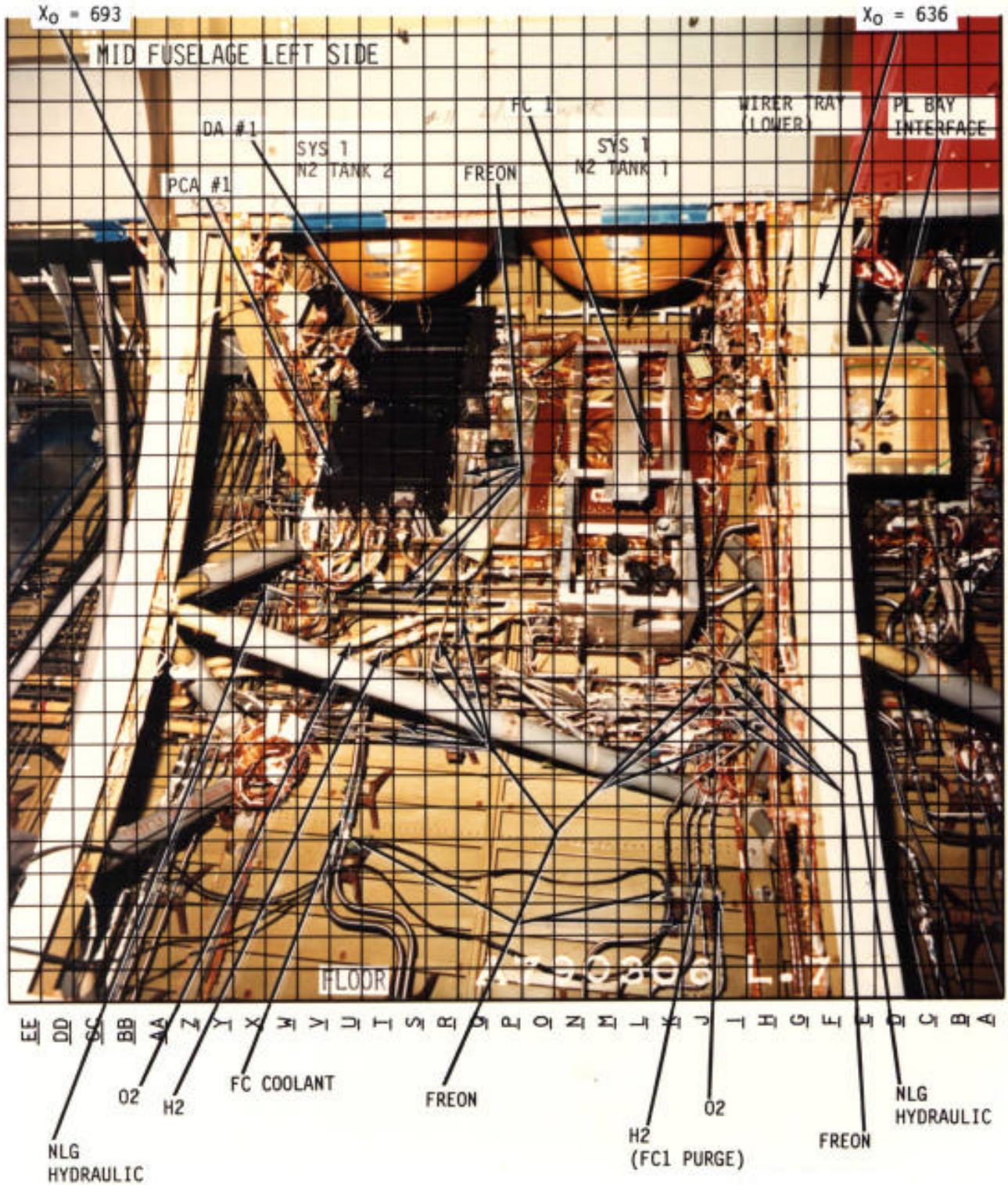


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

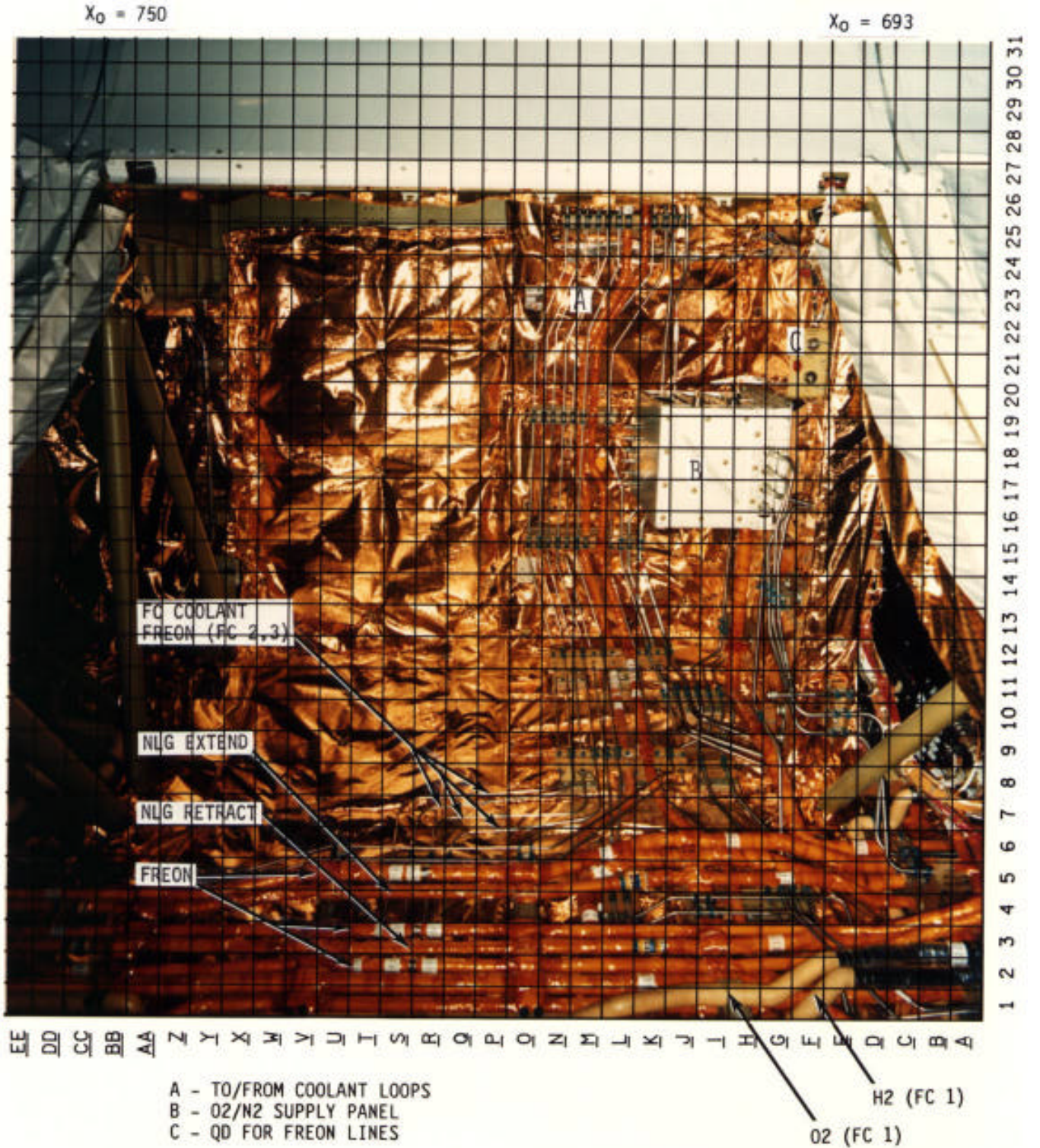
- A - FREON PUMP/ACCUM 1
- B - FREON PUMP/ACCUM 2
- C - FREON LINES
- D - PL INTERFACE PANEL
- E - VACUUM VENT LINE
- F - PURGE

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 636$ to 693)

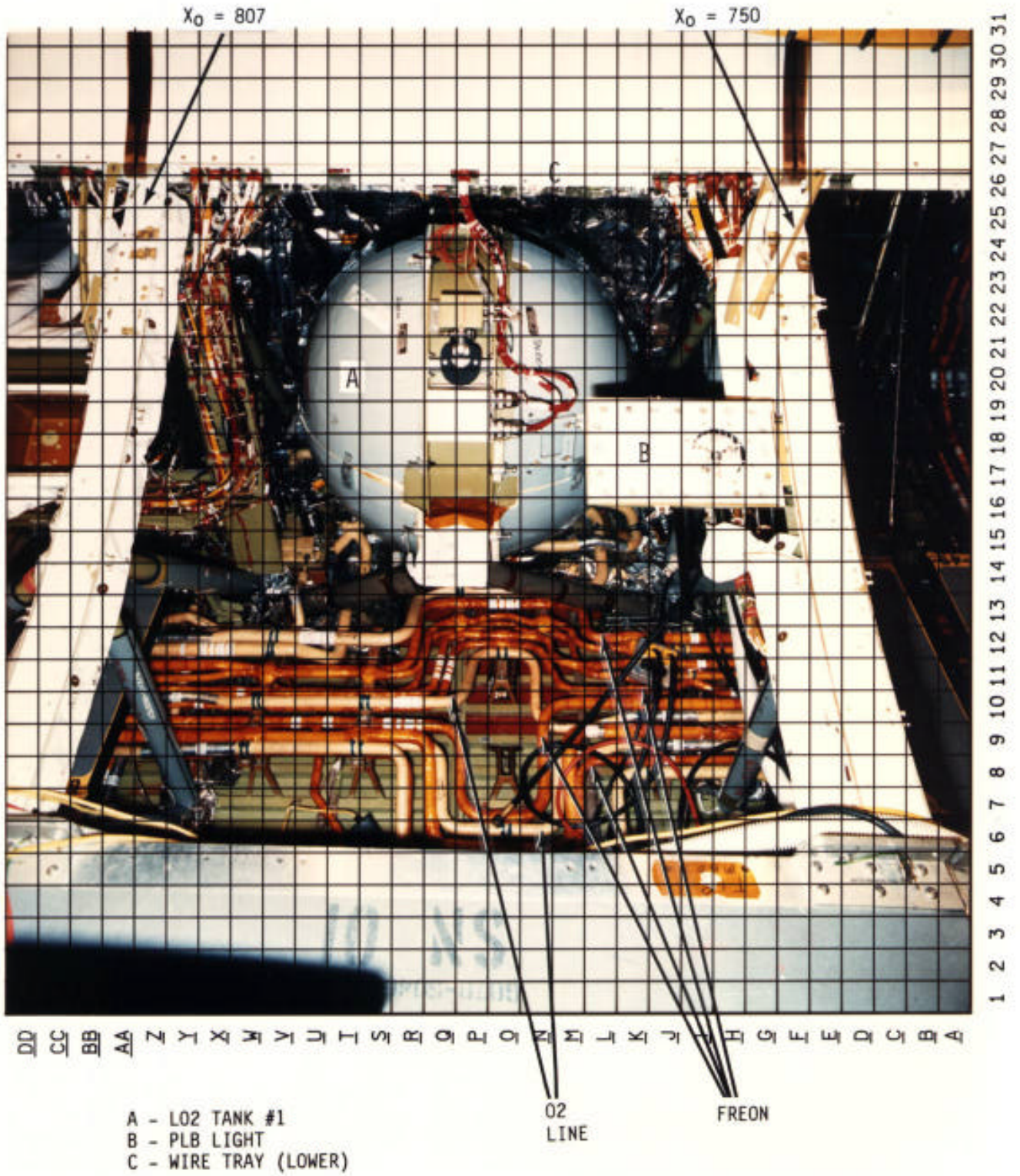
FWD →



LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 693$ to 750)



LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 750$ to 807)

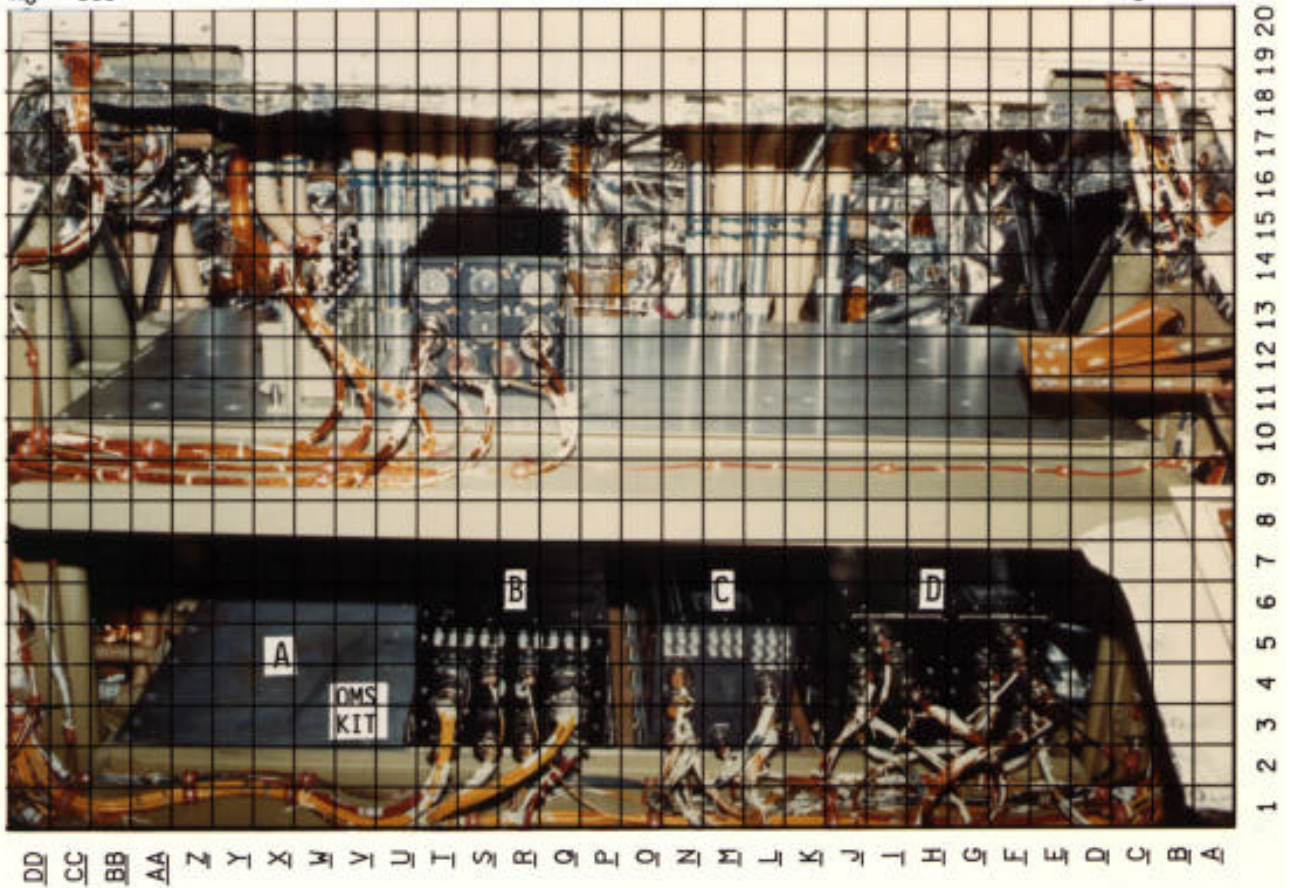


LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 807$ to 863)

TOP

$X_0 = 863$

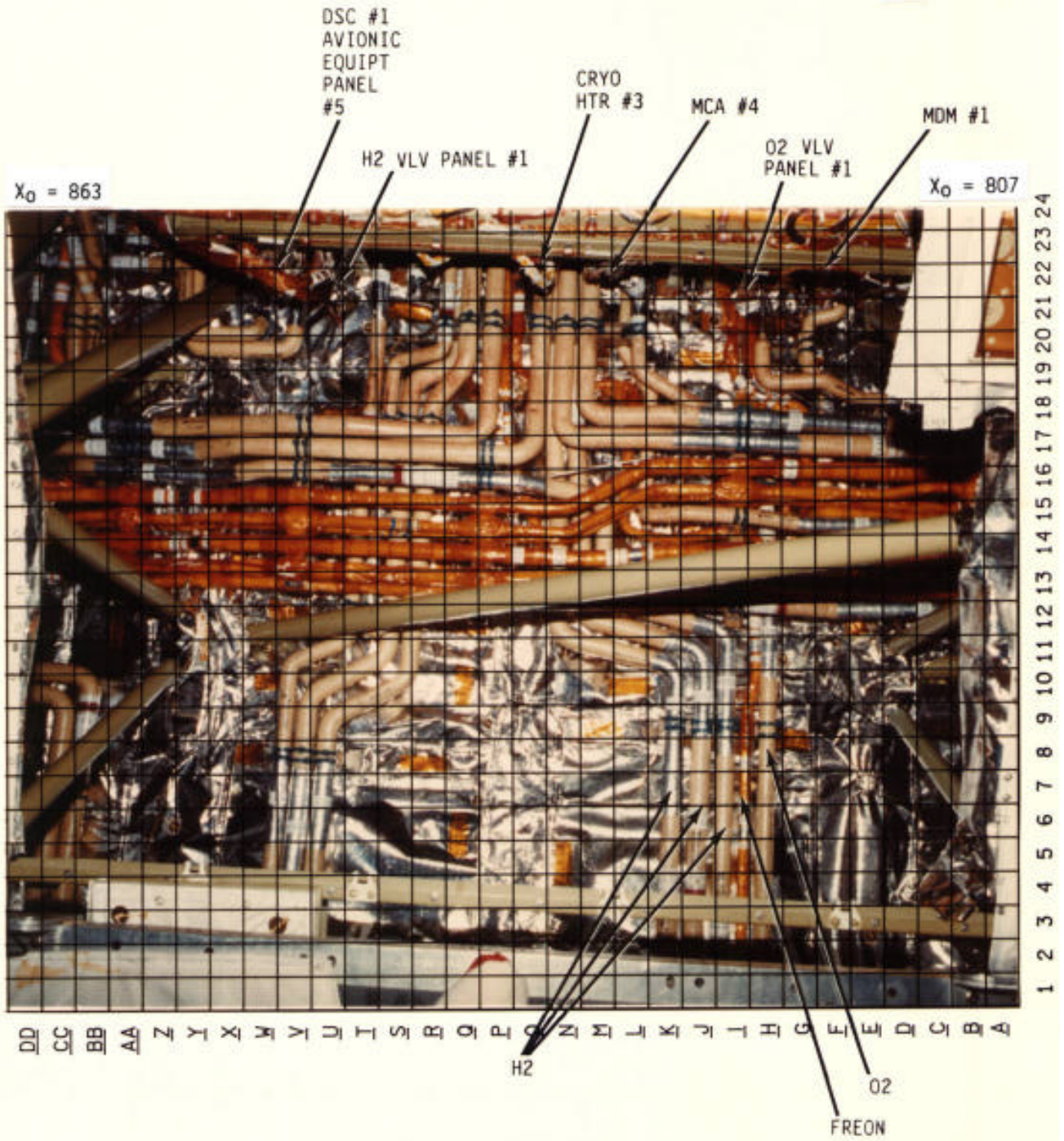
$X_0 = 807$



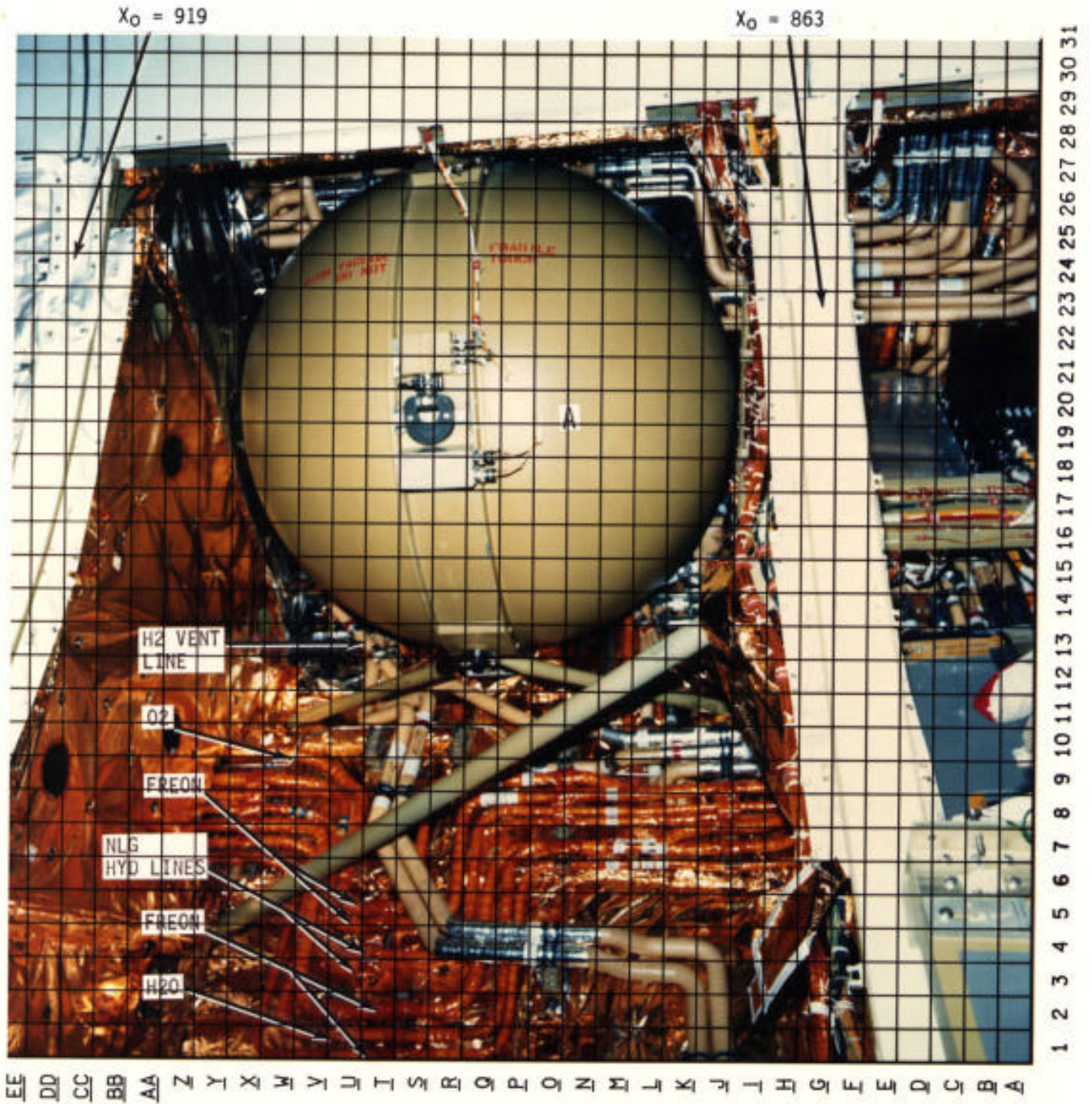
- A - MID FUSE COLDPLATE #5
- B - CRYO HTR #1
- C - MCA #3
- D - MJCA #1

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 807$ to 863)

BOTTOM

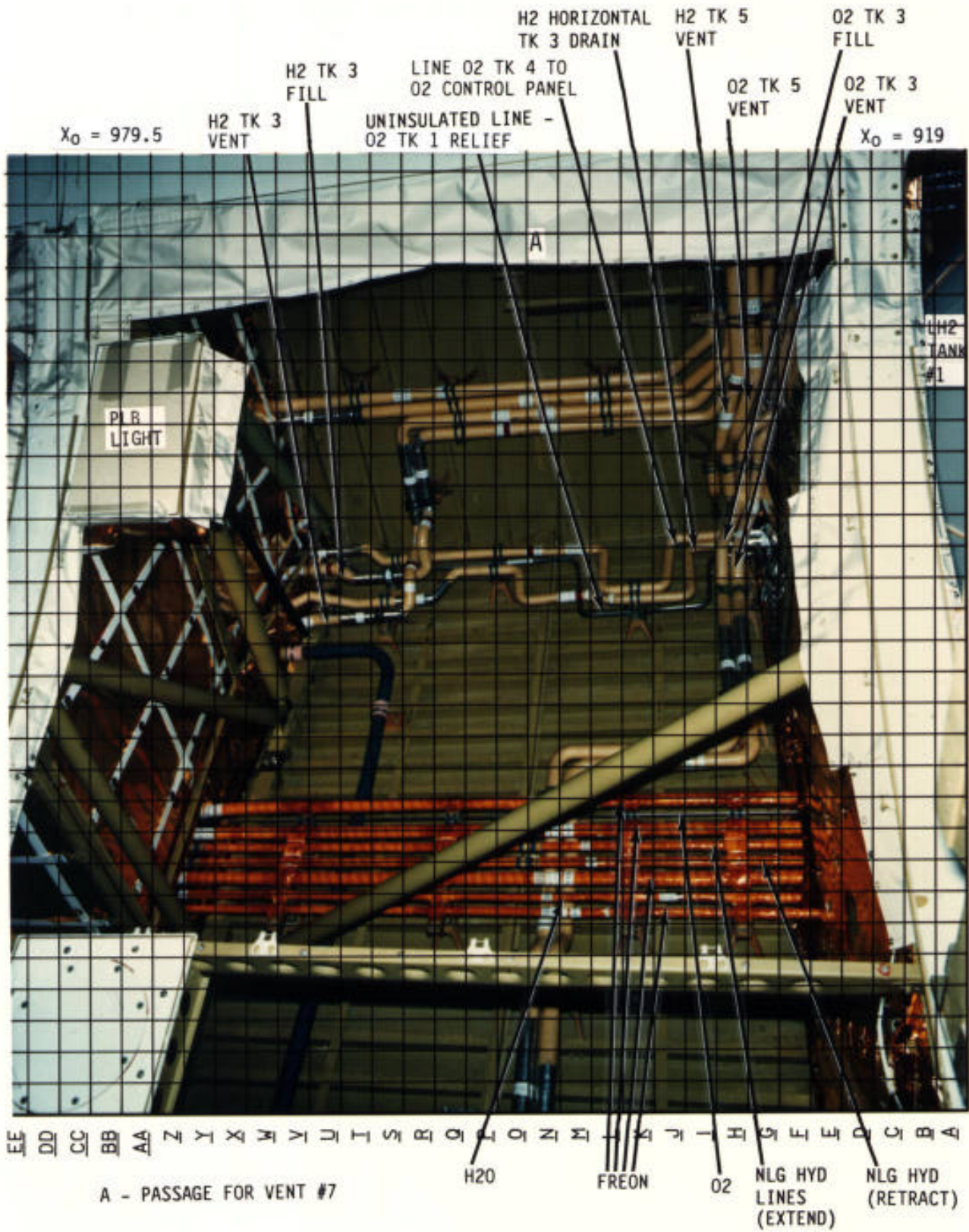


LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 863$ to 919)



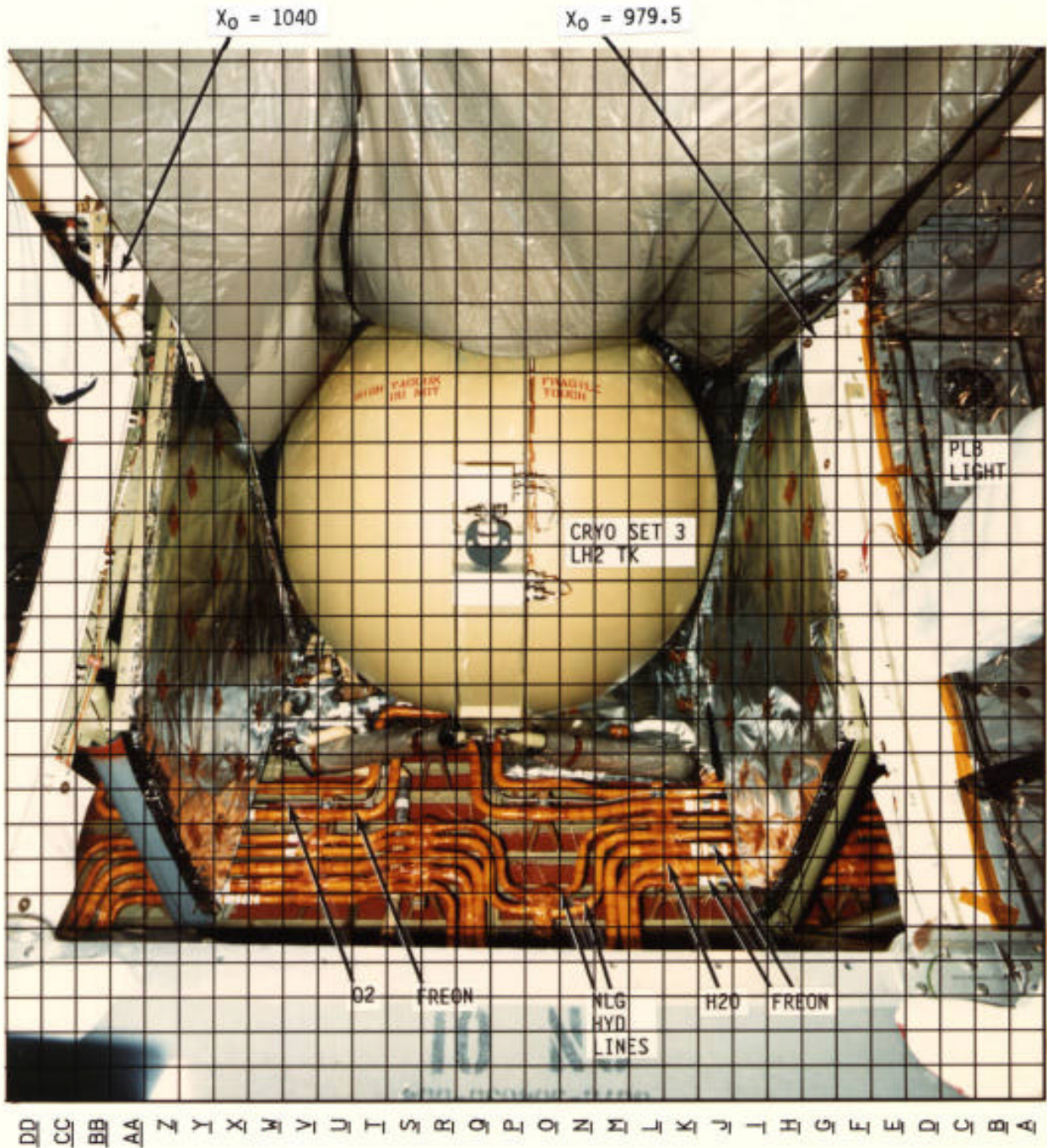
A - LH2 TANK #1

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 919$ to 979.5)



LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 979.5$ to 1040)

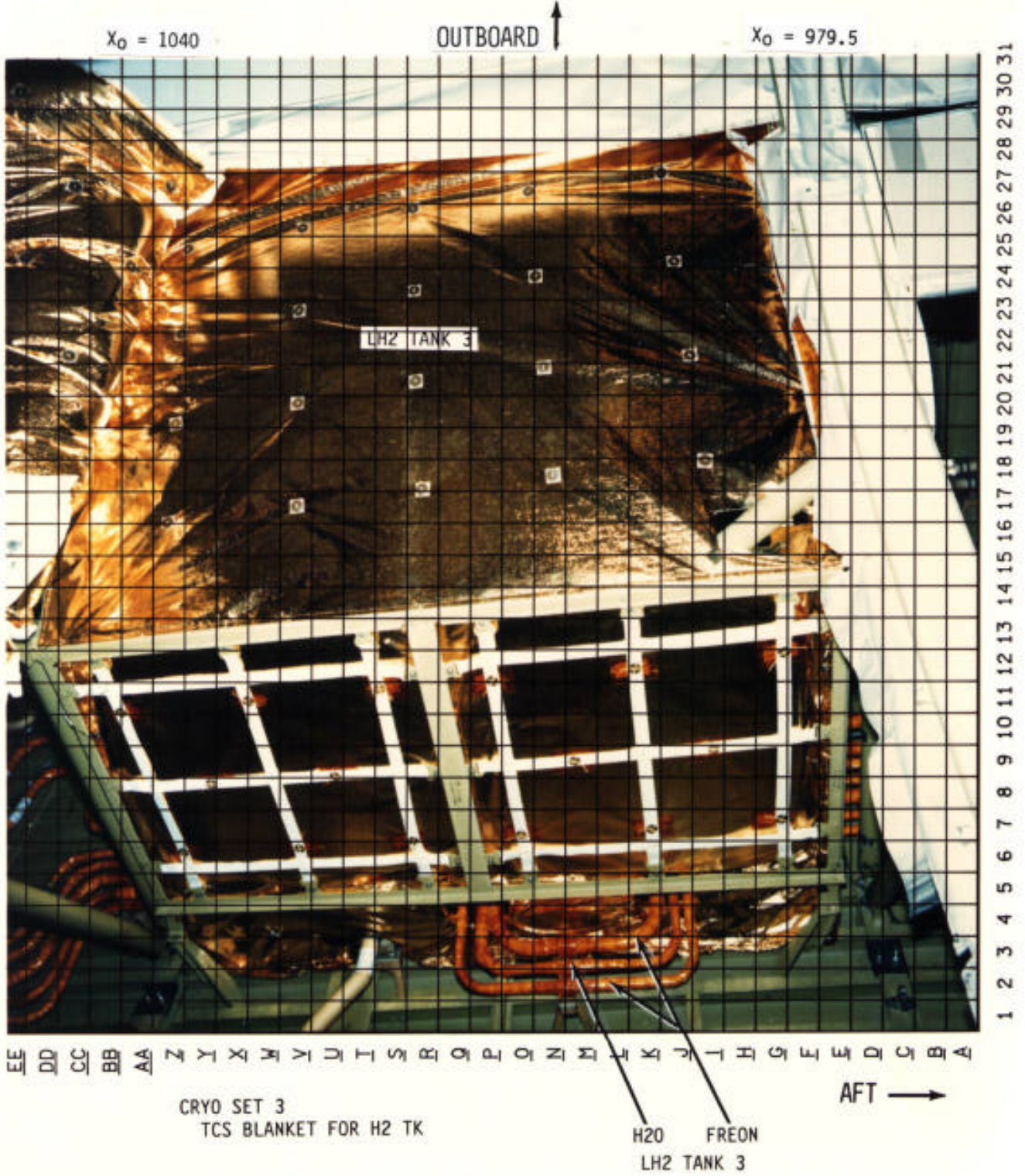
4A17 CLOSEOUT OF BAY 8 (PORT - PRIOR TO TCS BLANKET INSULATION)



LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 979.5$ to 1040)

CLOSEOUT OF BAY 8 (LEFT SIDE - PORT)

4A17

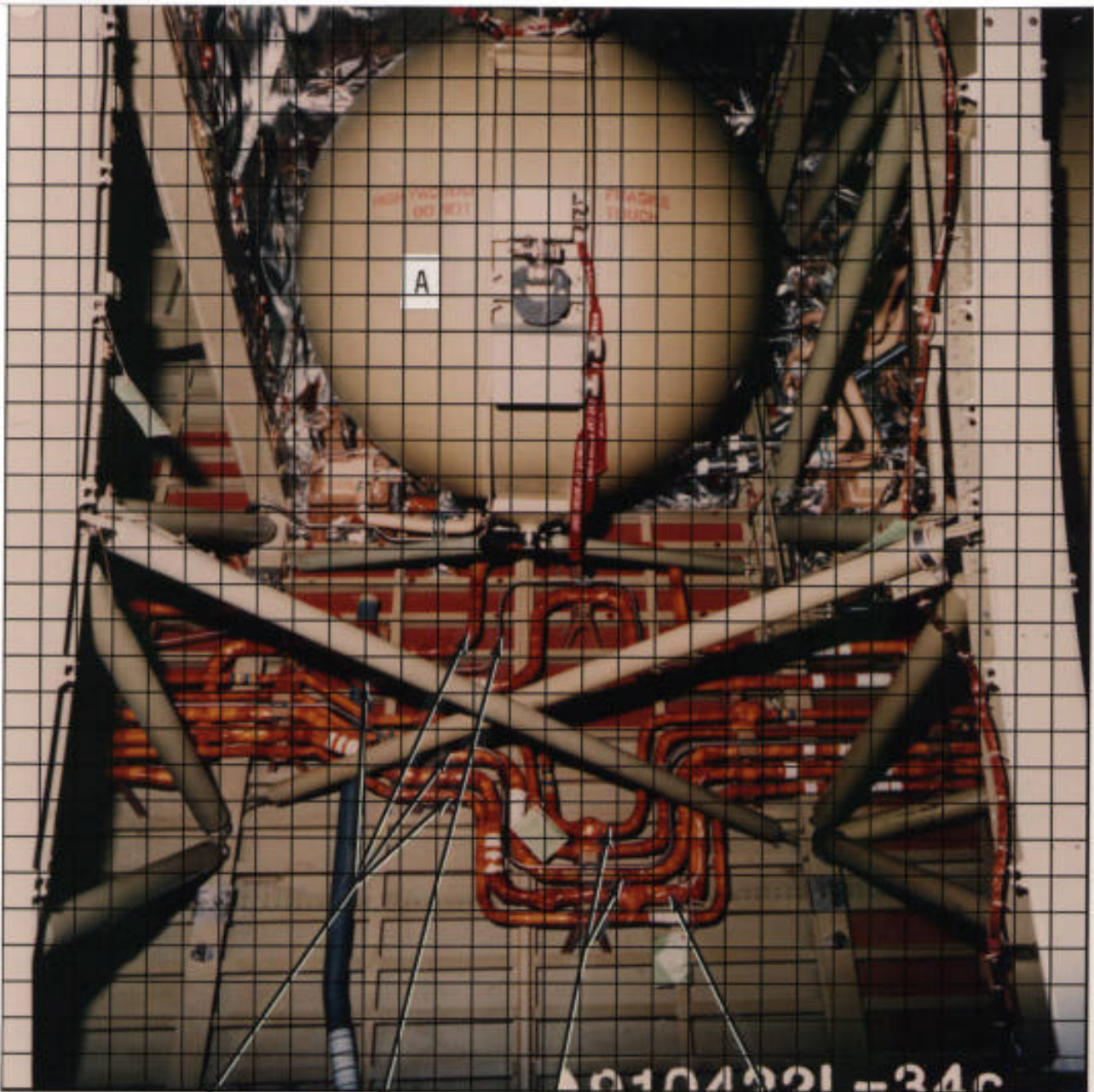


LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1040$ to 1090)

MID FUSELAGE, BAY 9 L/H LOWER

$X_0 = 1040$

$X_0 = 1090$



DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

FREON

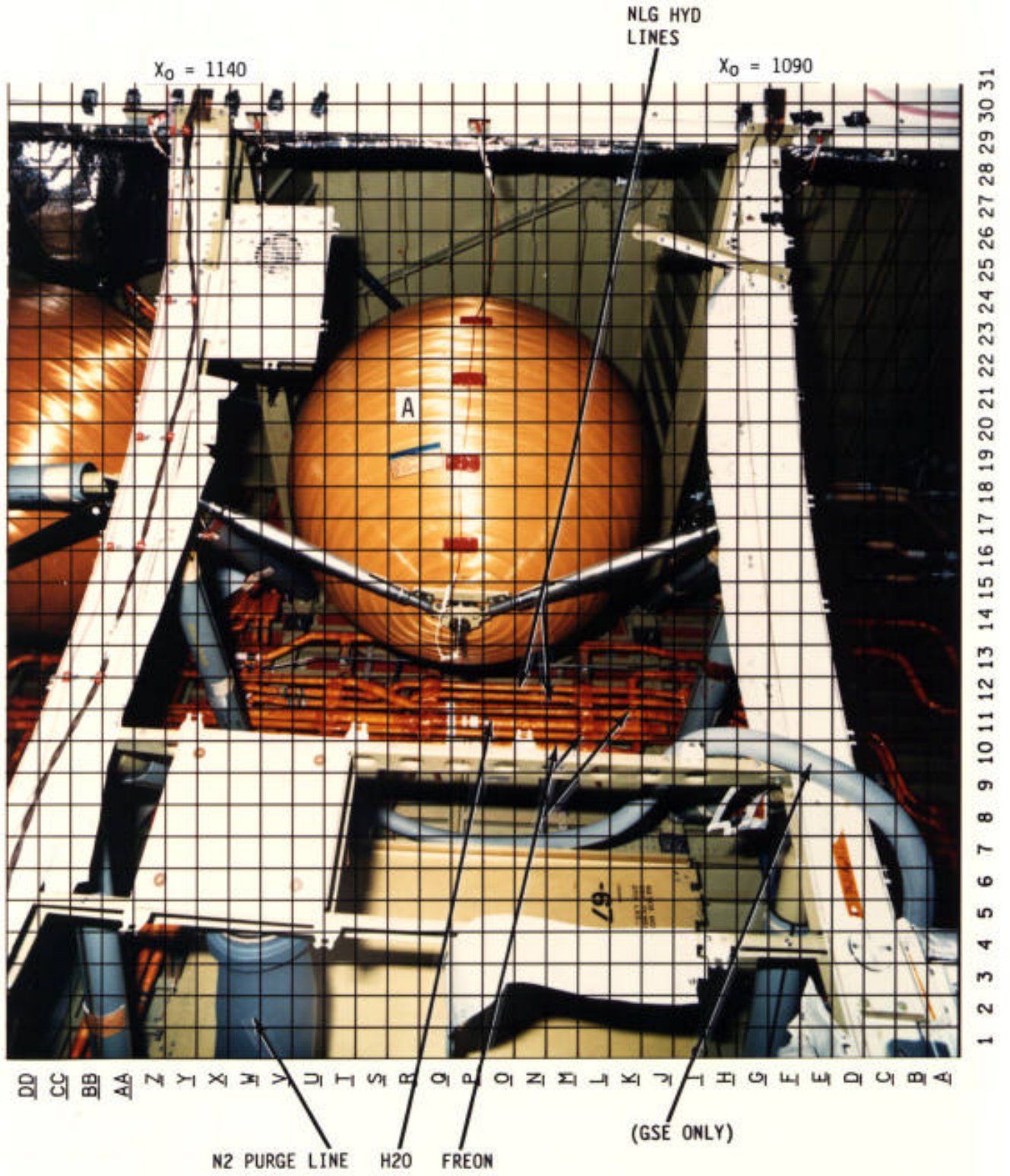
O2

NLG HYD
LINES

H2O

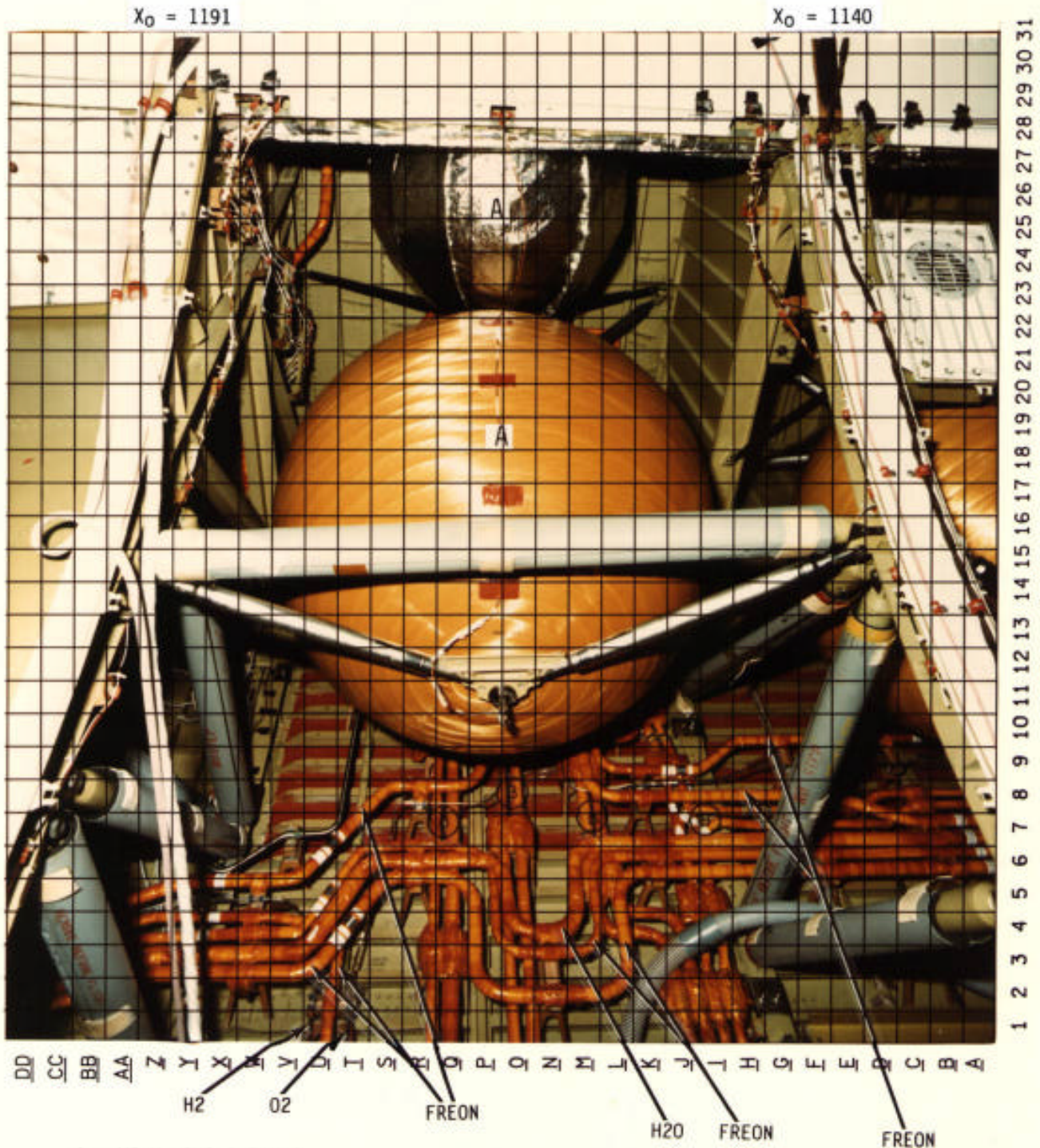
A - O2 CRYO KIT #4

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1090$ to 1140)



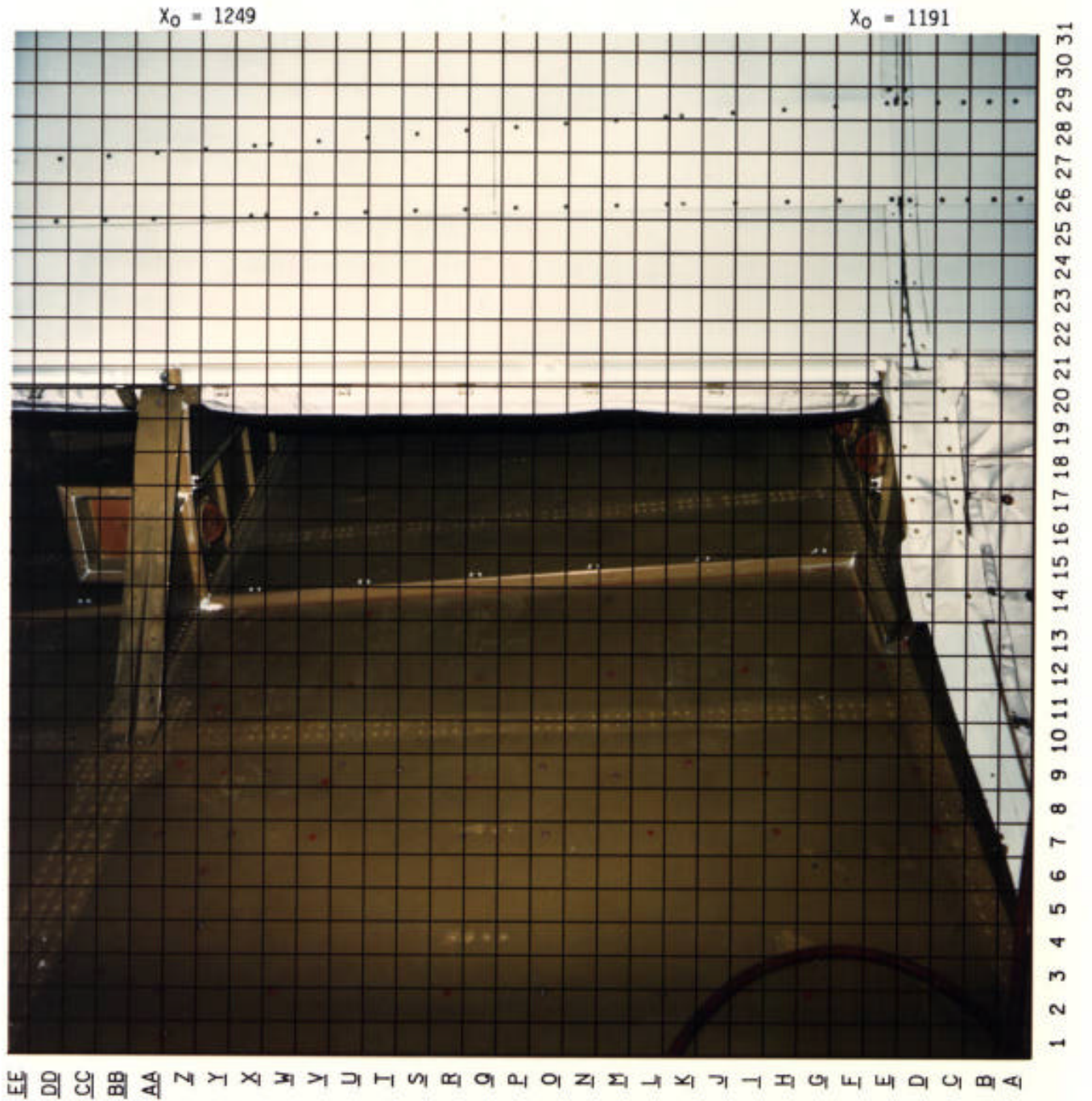
A = ME He TK

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1140$ to 1191)

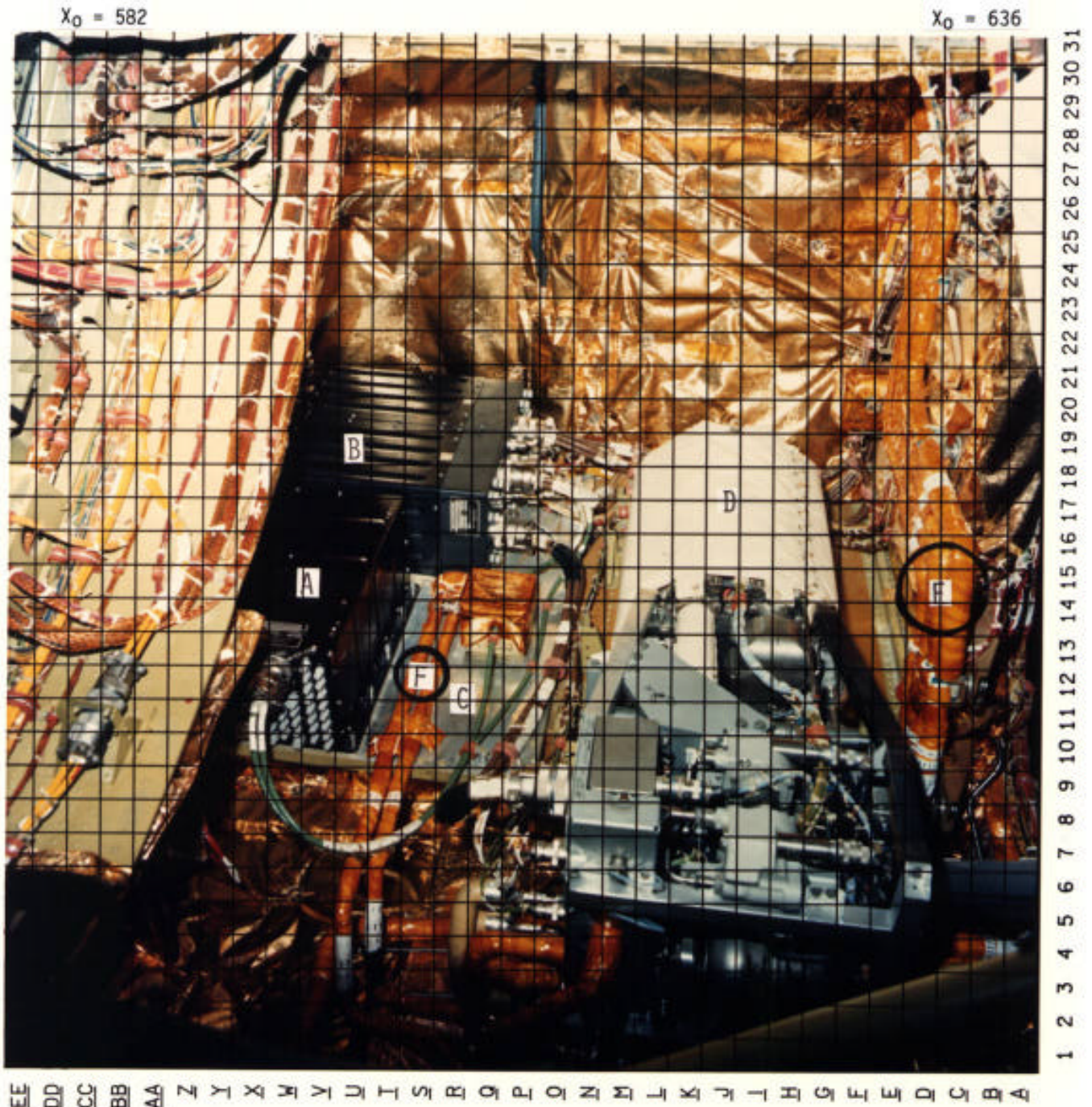


A = ME He SYS 2 TANKS
 B = HYD LINES TO/FROM LEFT MLG

LOOKING PORT FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1191$ to 1249)



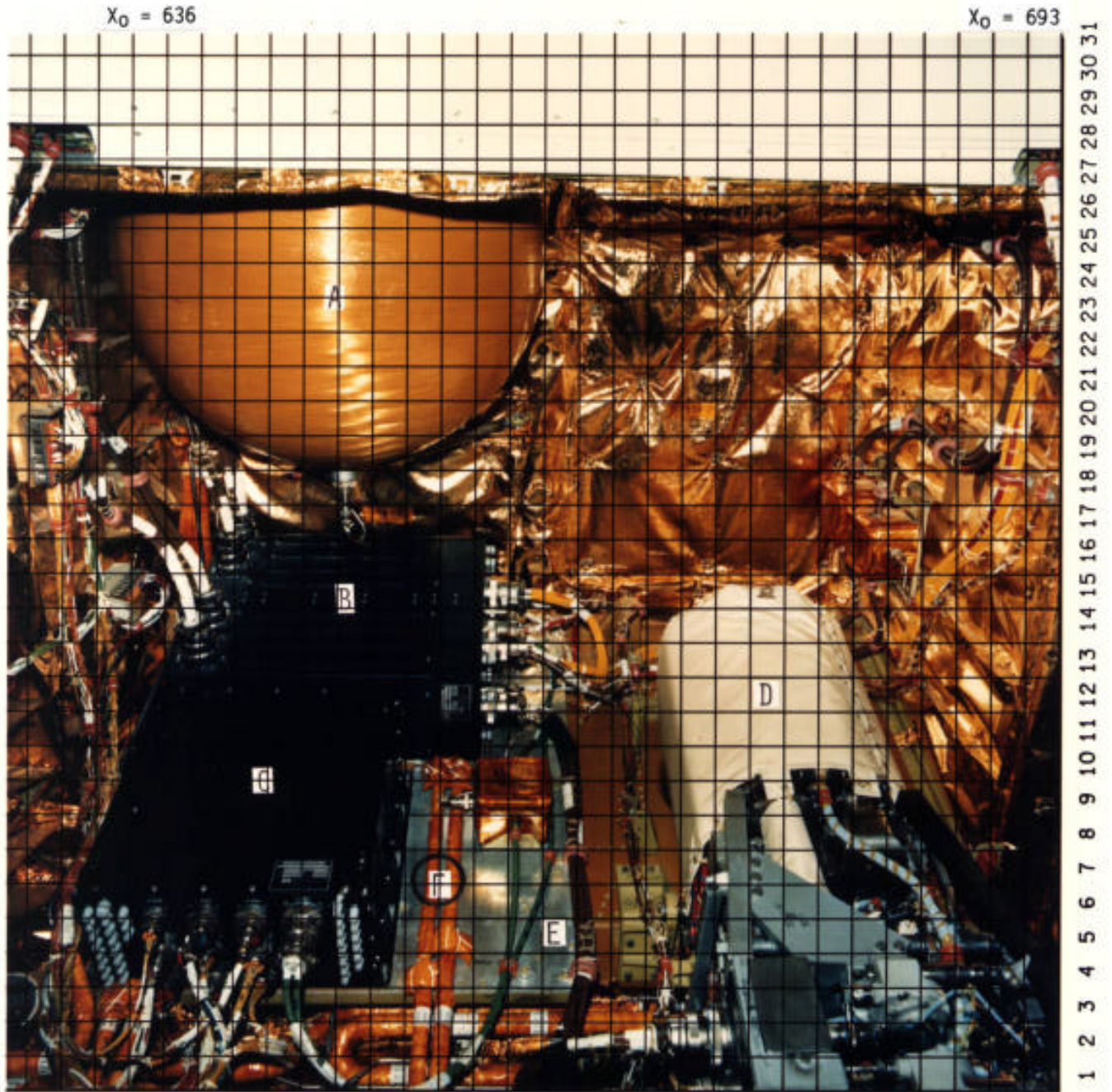
LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 582$ to 636)



EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - PCA #2
- B - MPD #2
- C - MID FUSE COLDPLATE #2
- D - FC #2
- E - H2O FROM FCs (4)
- F - FREON LINES (2)

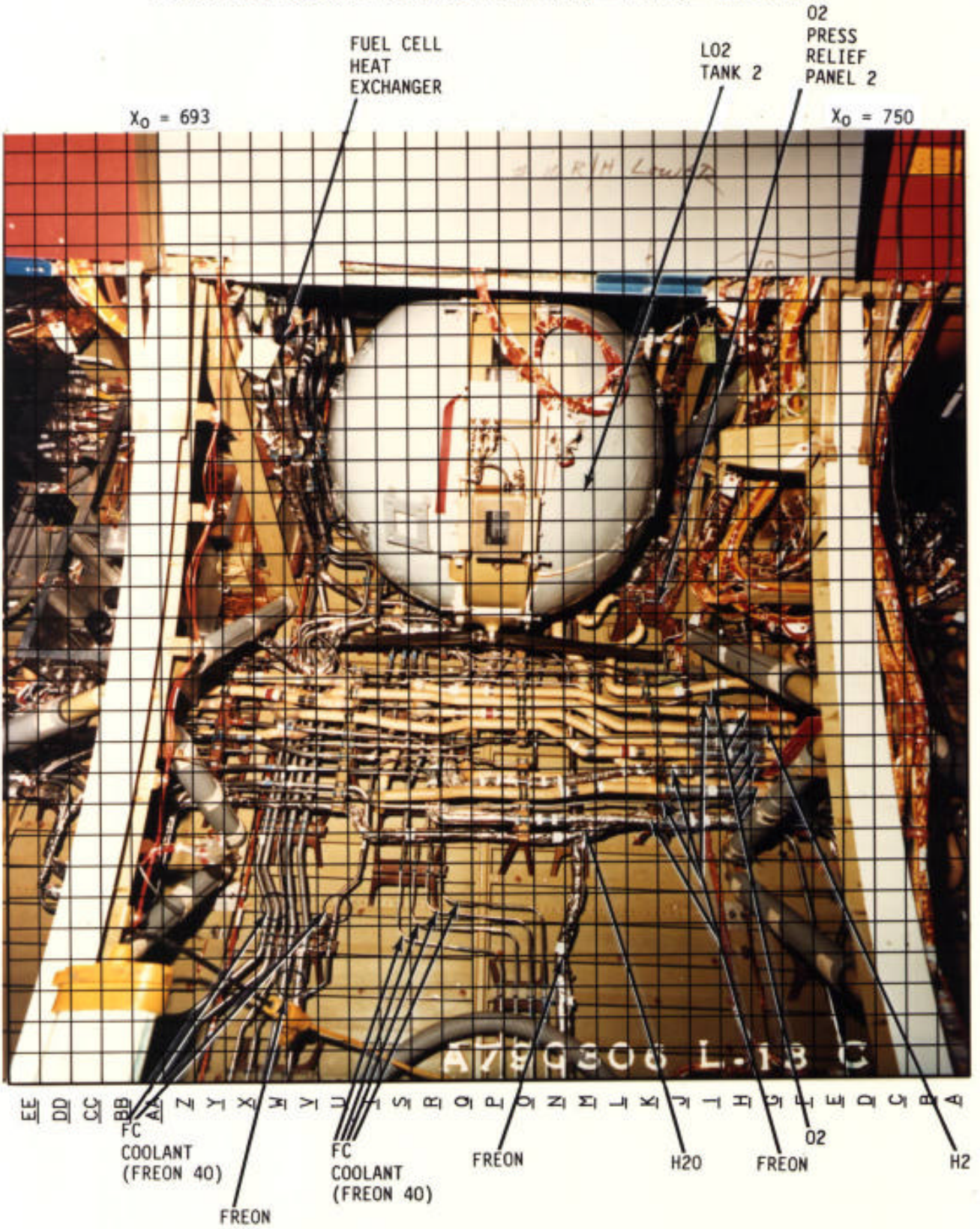
LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 636$ to 693)



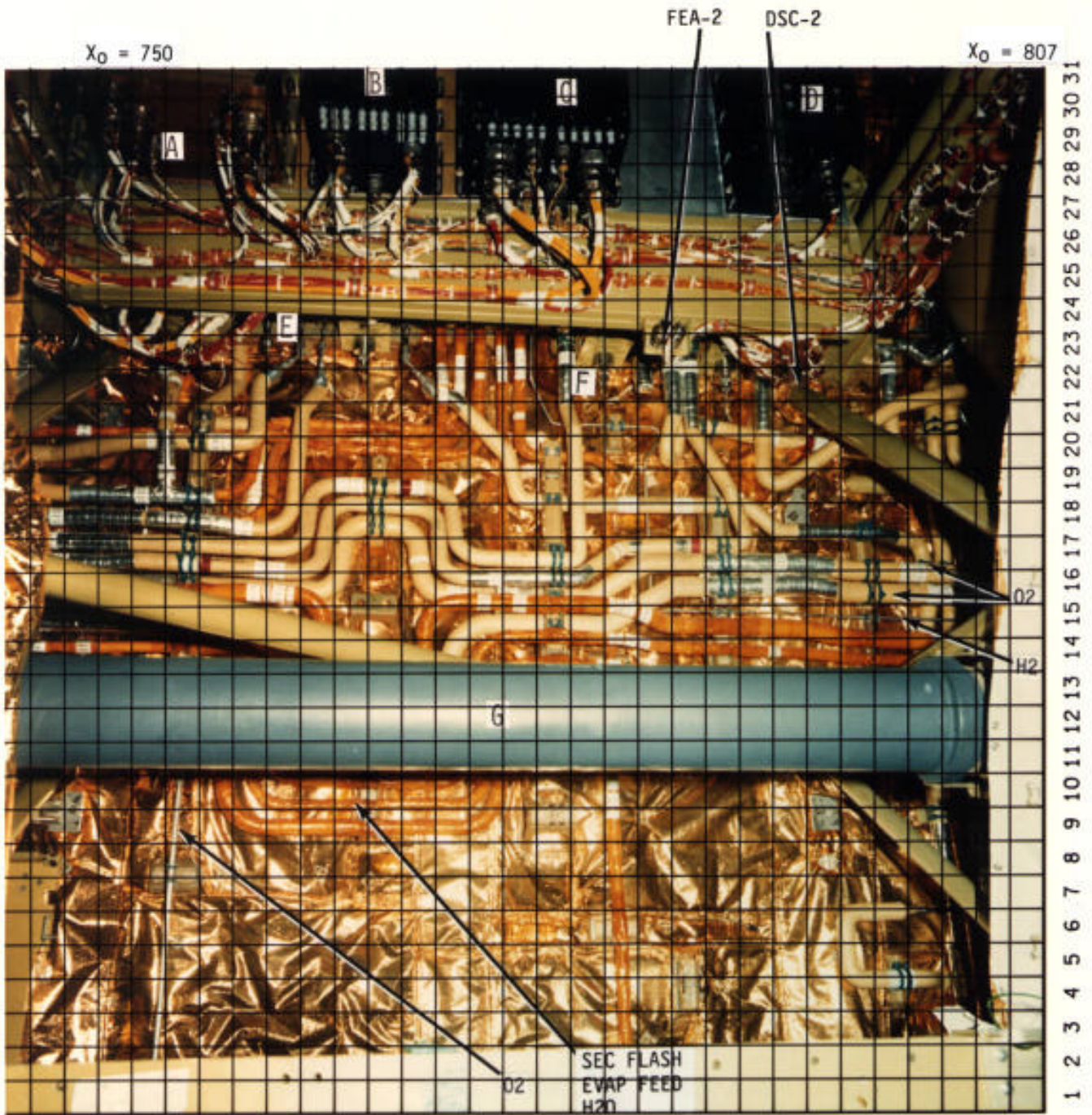
EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - SYS 2 N2 TANK 1
- B - DA #3
- C - PCA #3
- D - FC #3
- E - MID FUSE COLDPLATE #3
- F - FREON LINES (2)

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 693$ to 750)



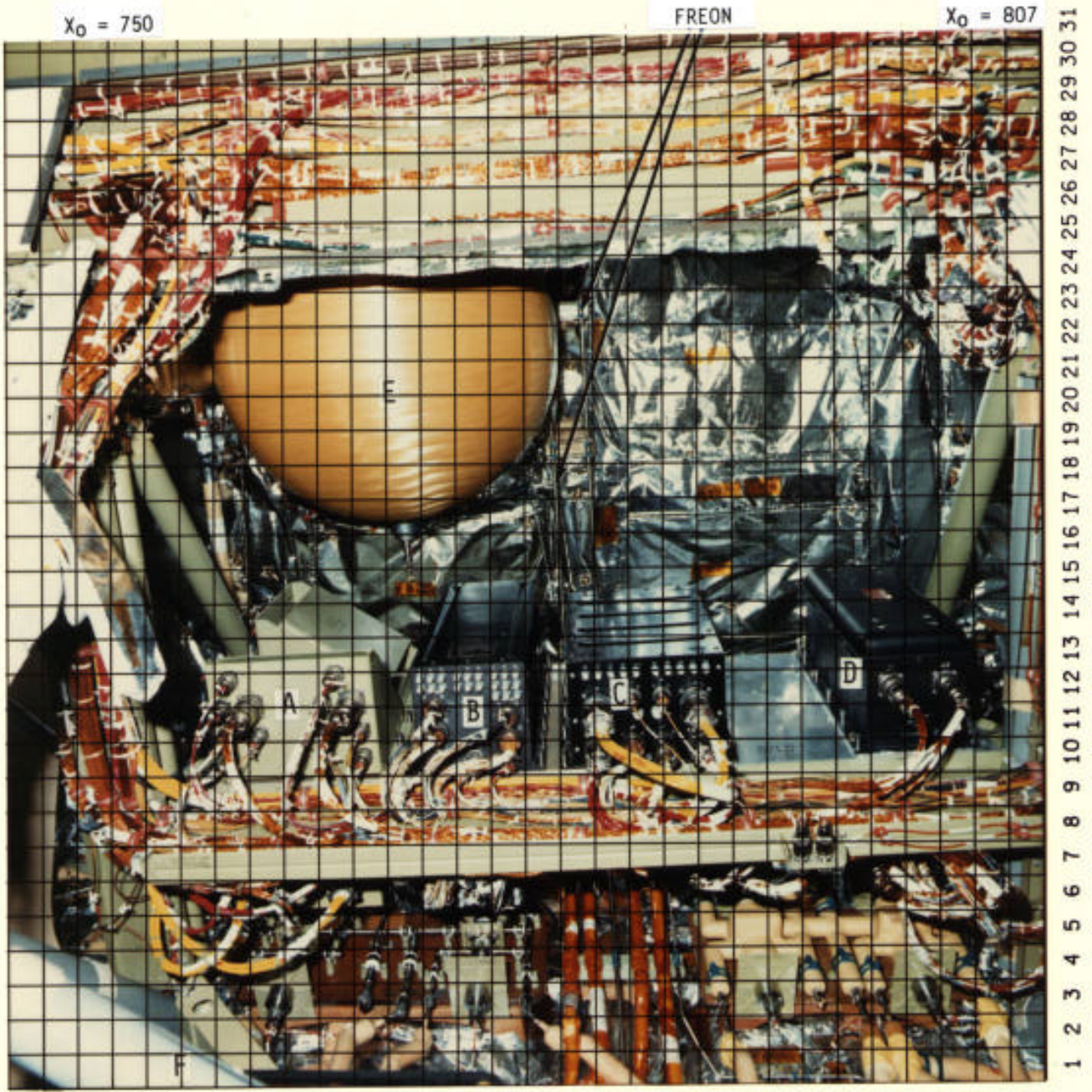
LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 750$ to 807)



EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - MJCA #2
- B - MCA #2
- C - CRYO HEATER #2
- D - F/L ELEC KIT
- E - O2 VLV PANEL 2
- F - H2 VLV PANEL 2
- G - PURGE LINE

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 750$ to 807)



DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - MJCA #2
- B - MCA #1
- C - CRYO HEATER #2
- D - F/L ELEC KIT
- E - SYSTEM 2 N2 TANK 2
- F - PURGE LINE

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 807$ to 863)

MID FUSELAGE, BAY 5 R/H LOWER

$X_0 = 807$

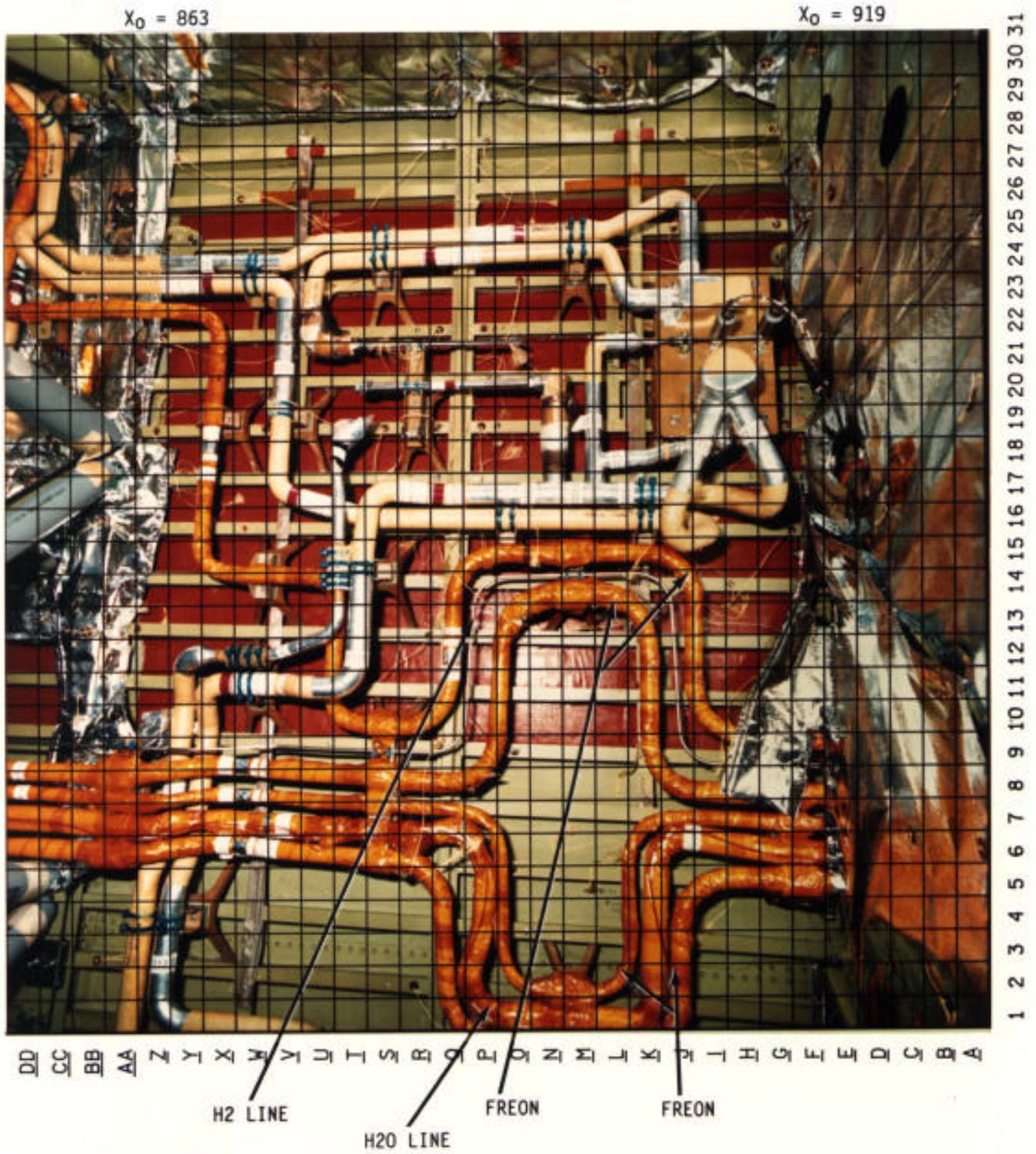
$X_0 = 863$



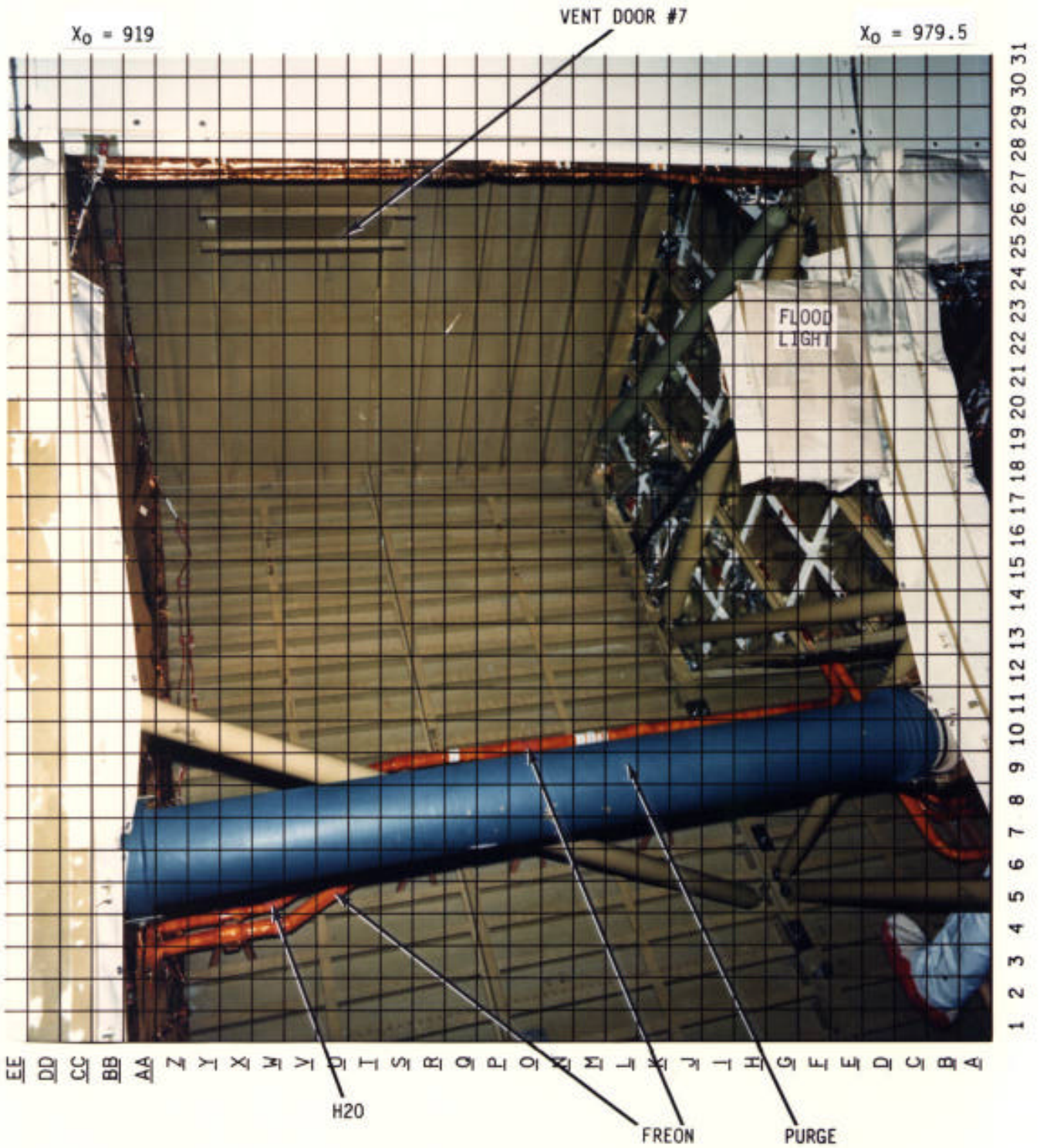
DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

A - LH2 TANK #2
B - PURGE LINE

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 863$ to 919)



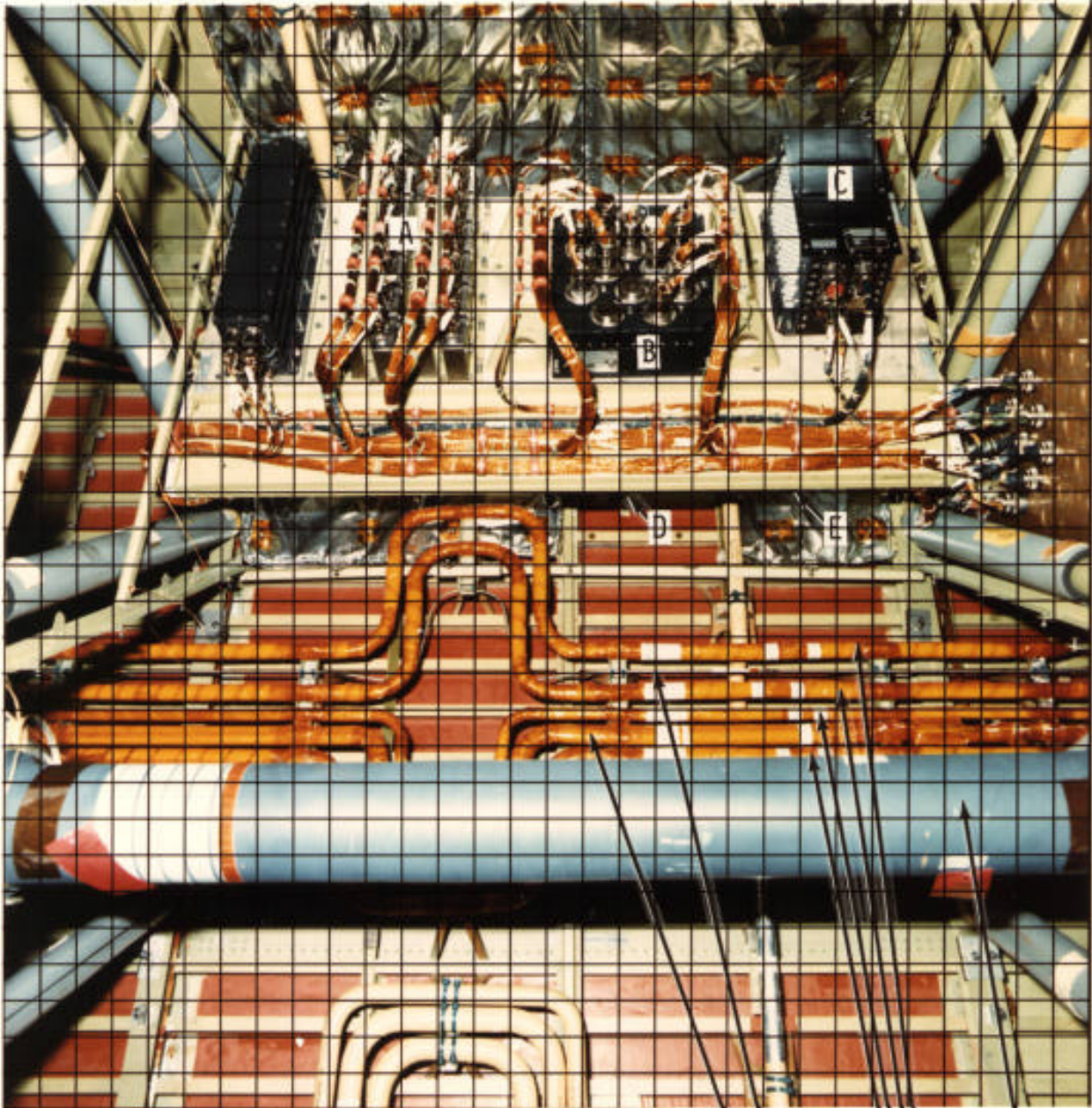
LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 919$ to 979.5)



LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 979.5$ to 1040)

$X_0 = 979.5$

$X_0 = 1040$



DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

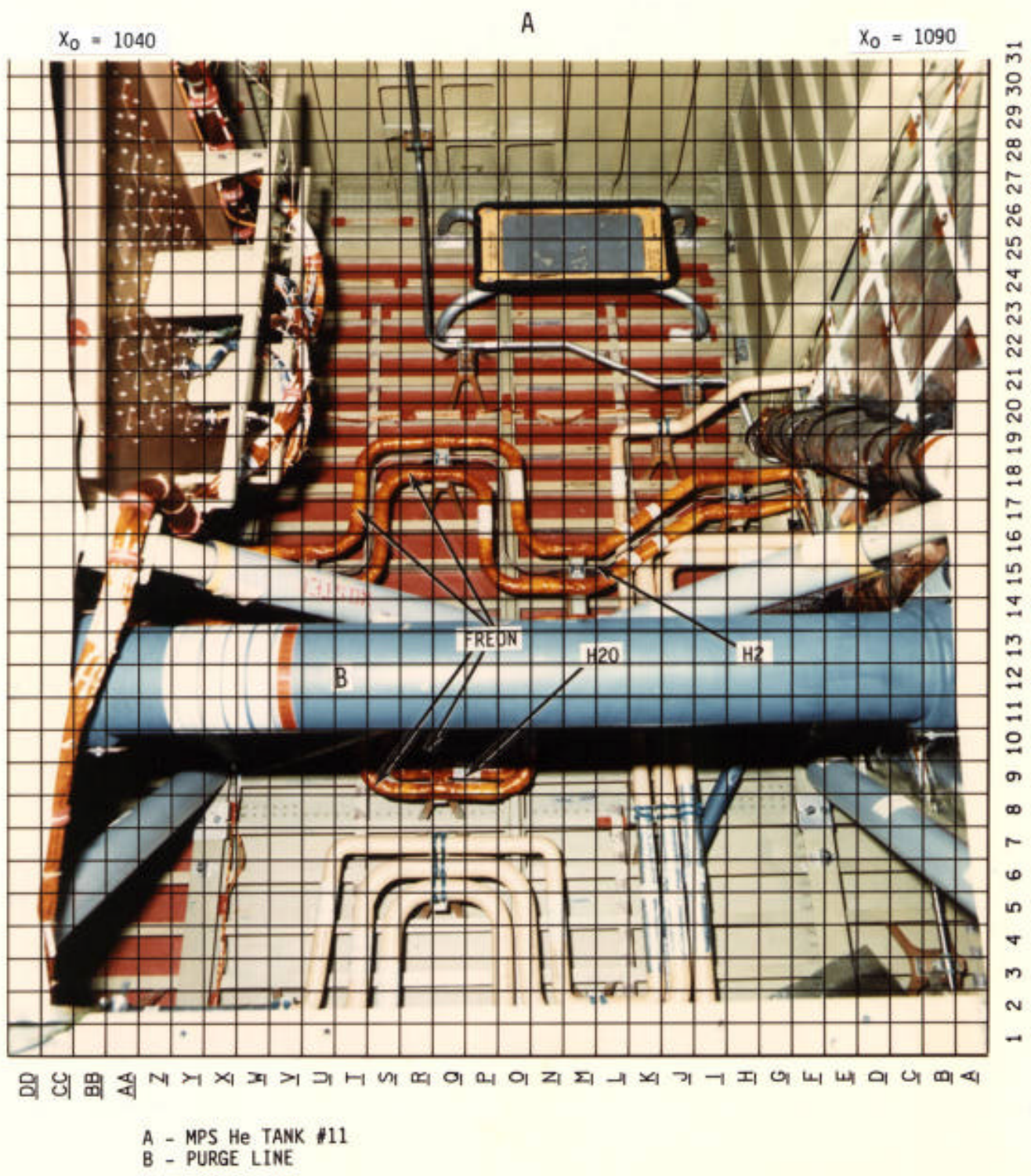
- A - STRAIN GAUGE SIGNAL CONDITIONER ASSEMBLIES (2)
- B - MADS PCM MULTIPLEXER
- C - MADS POWER DISTRIBUTION ASSEMBLY
- D - MADS FREQUENCY DIVISION MULTIPLEXER
- E - WIDEBAND SIGNAL CONDITIONER ASSEMBLY

H2O
H2

FREON

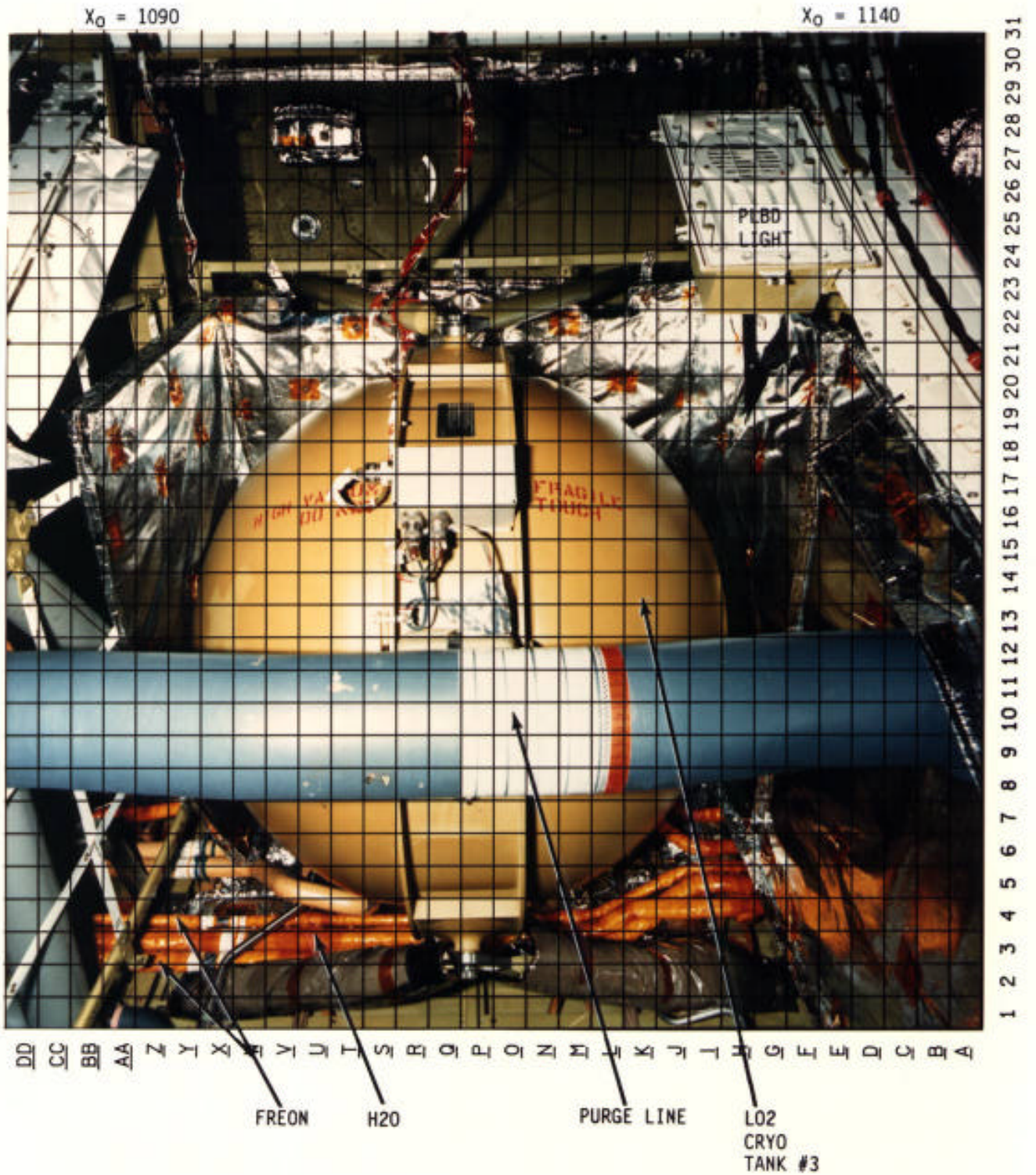
PURGE

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1040$ to 1090)



A - MPS He TANK #11
 B - PURGE LINE

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1090$ to 1140)

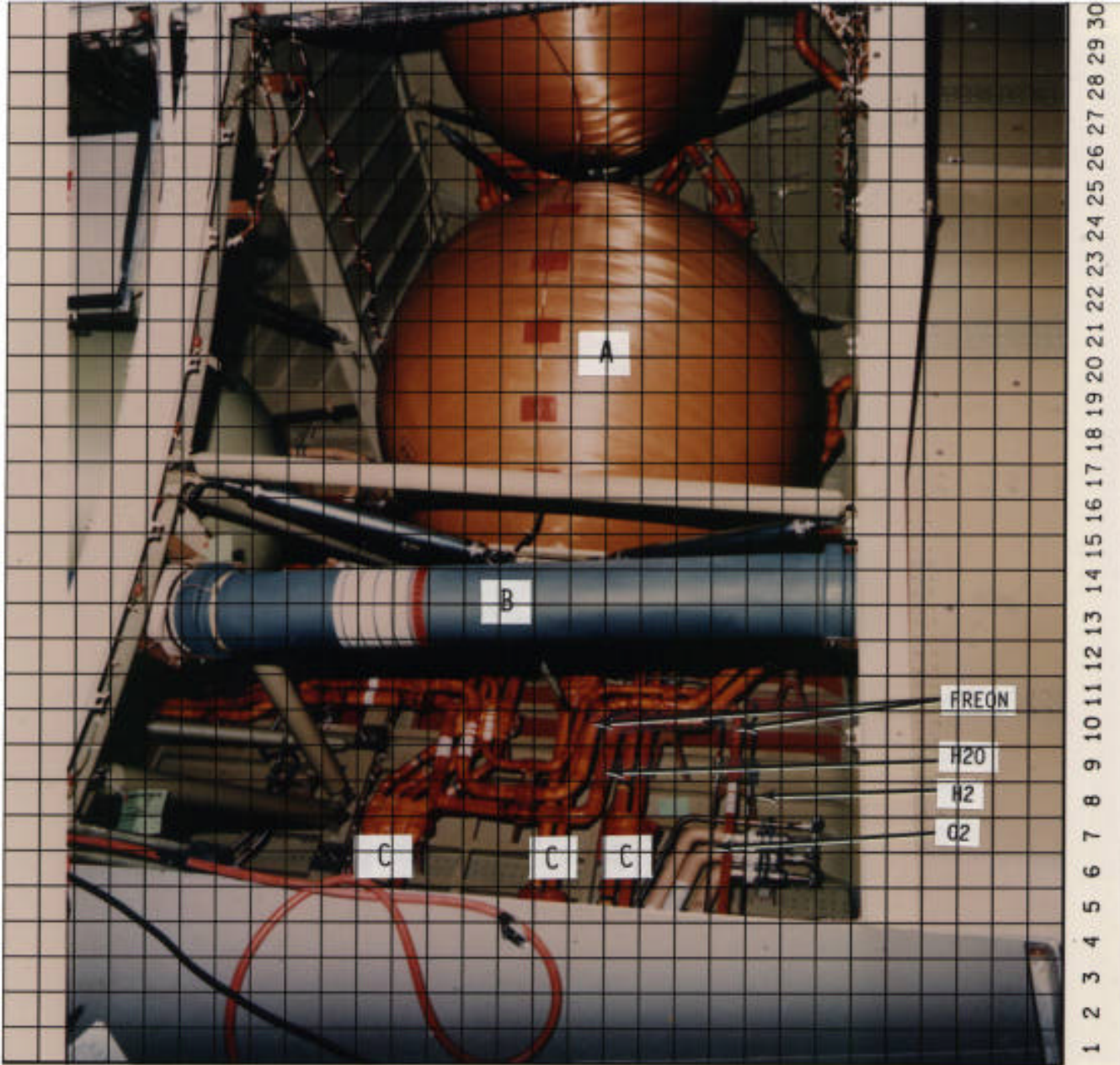


LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1140$ to 1191)

MID FUSELAGE, BAY 11 R/H LOWER

$X_0 = 1140$

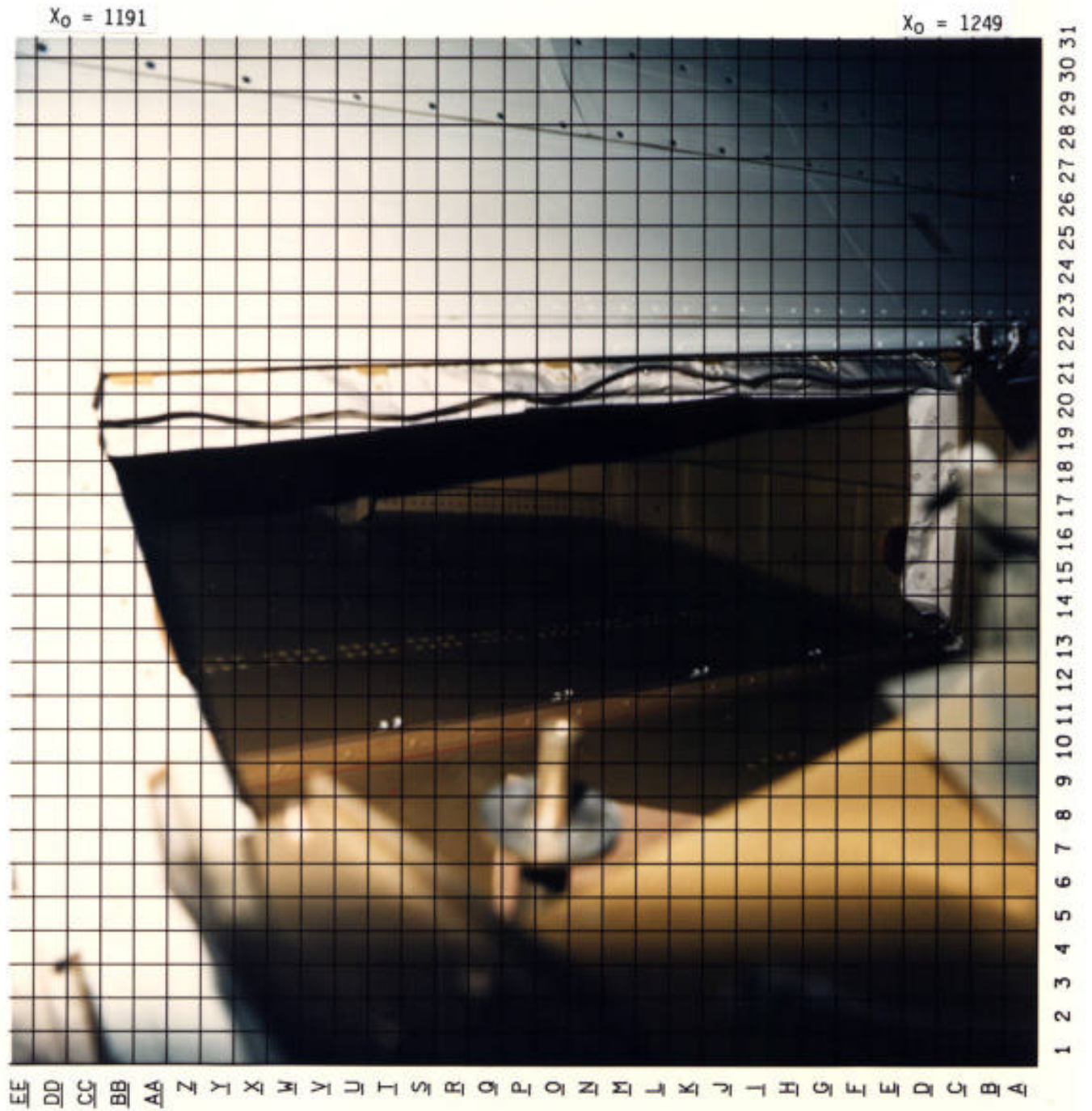
$X_0 = 1191$



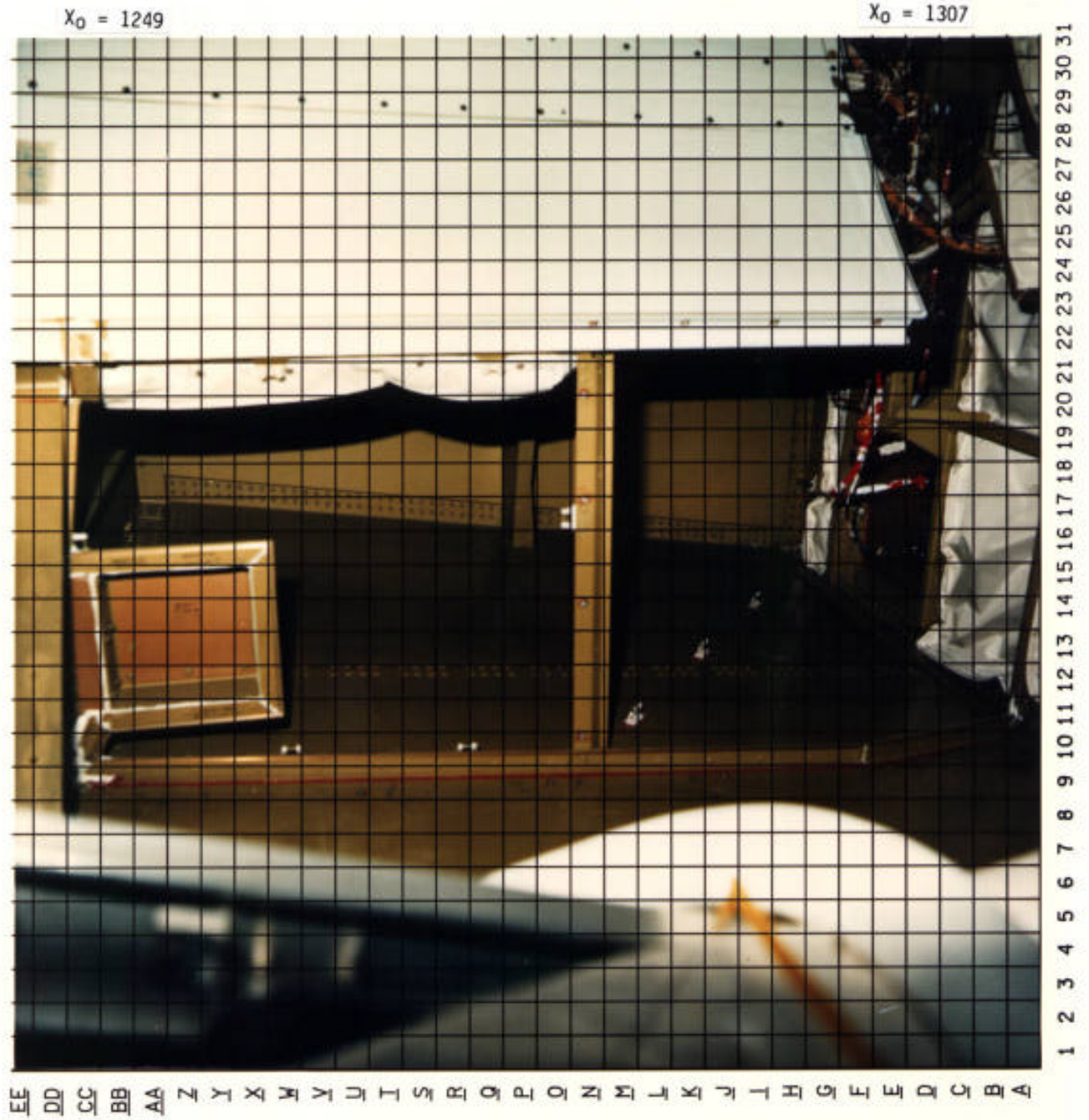
DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - ME He SYS 1 TANK
- B - PRE/POST FLIGHT PURGE LINE
- C - HYD LINES TO/FROM RIGHT MLG

LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1191$ to 1249)

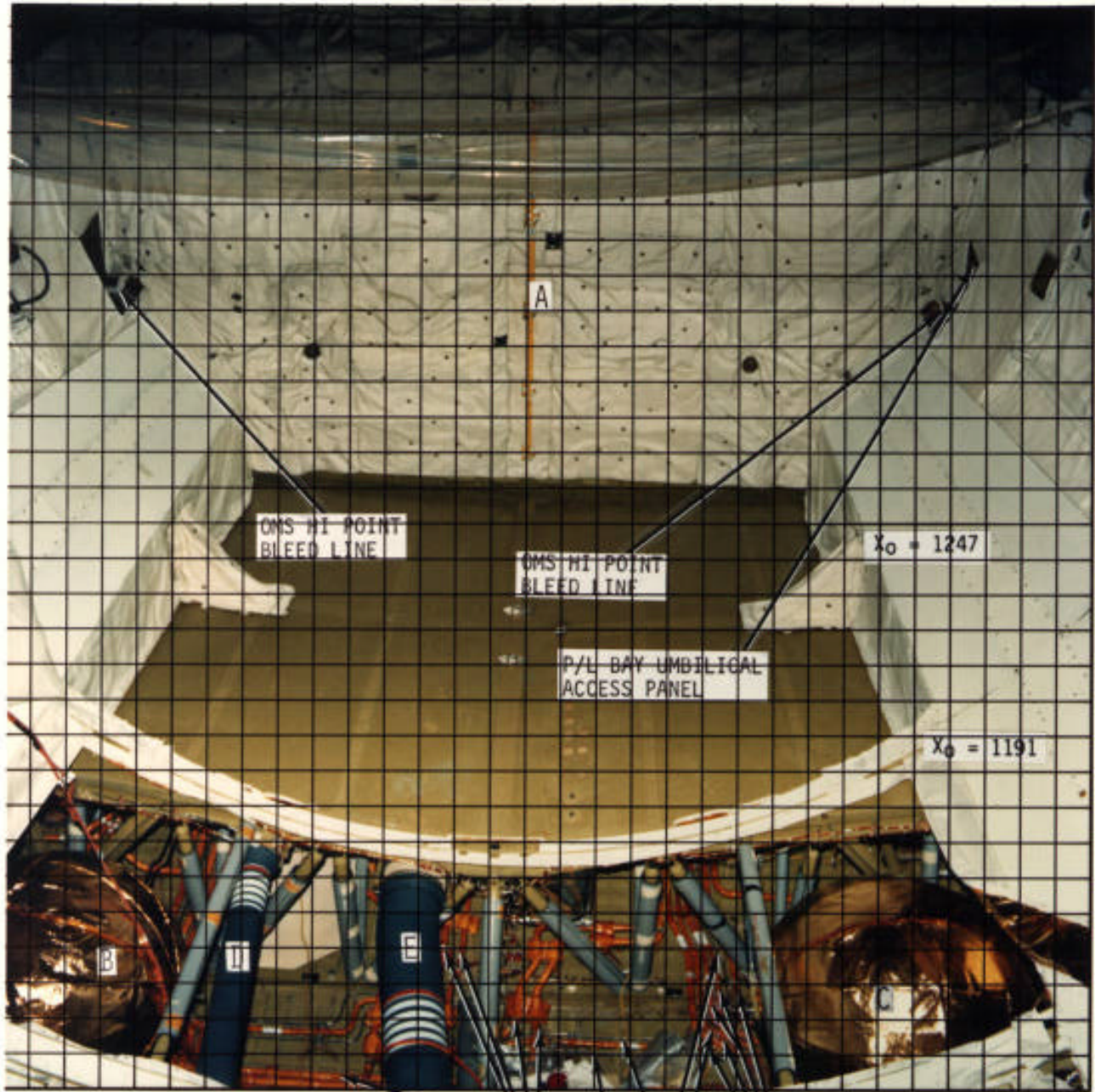


LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1249$ to 1307)



LOOKING STARBOARD FROM CENTERLINE ($Y_0 = 0.0$; $X_0 = 1307$ BLKHD)

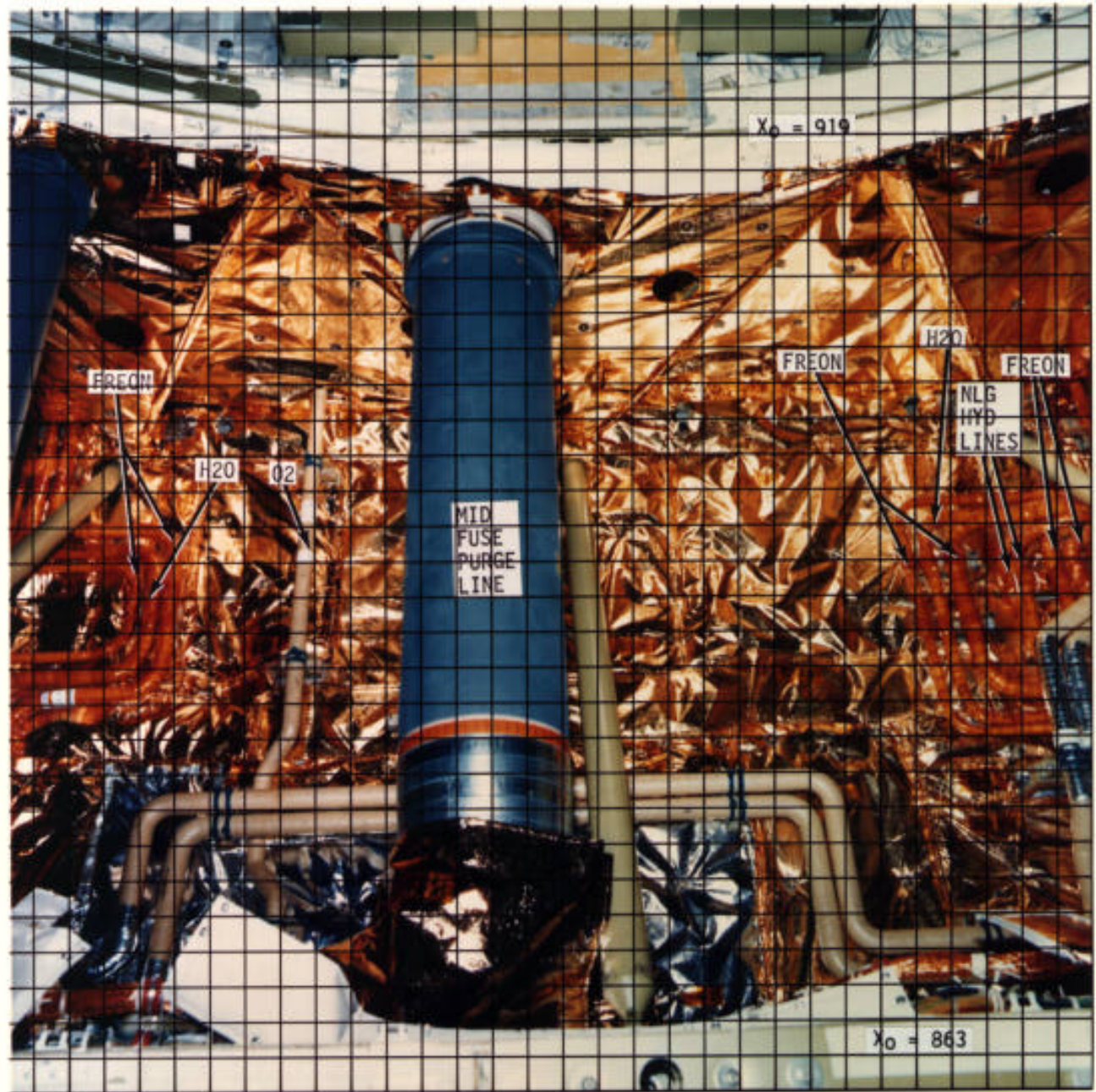
$X_0 = 1307$ BLKHD



EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - AFT BULKHEAD
- B - ME He SYS 1 TANK
- C - ME He SYS 2 TANK
- D - AFT FUSE PURGE LINE
- E - MID FUSE PURGE LINE

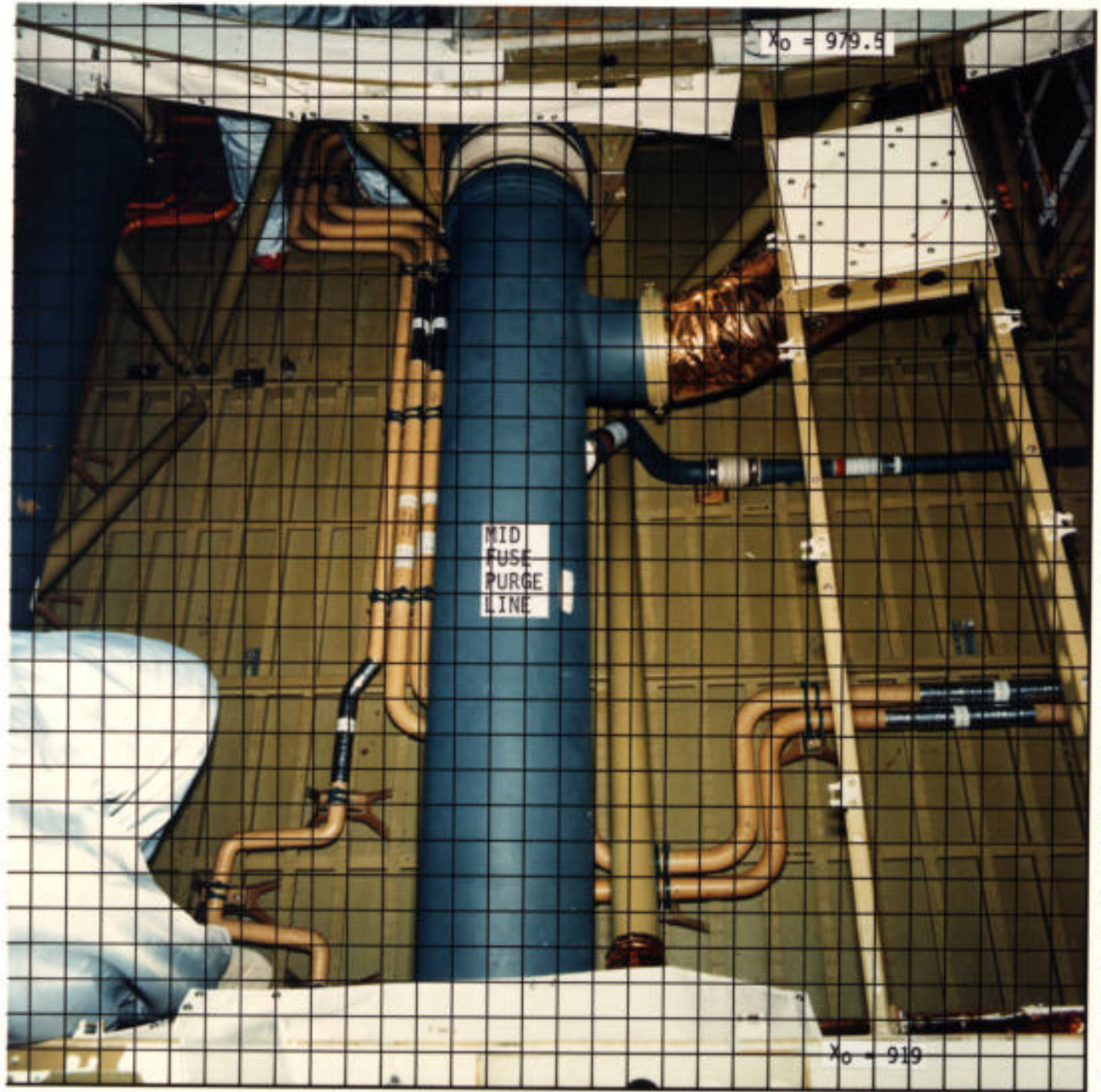
BAY 6 LOOKING AFT



EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

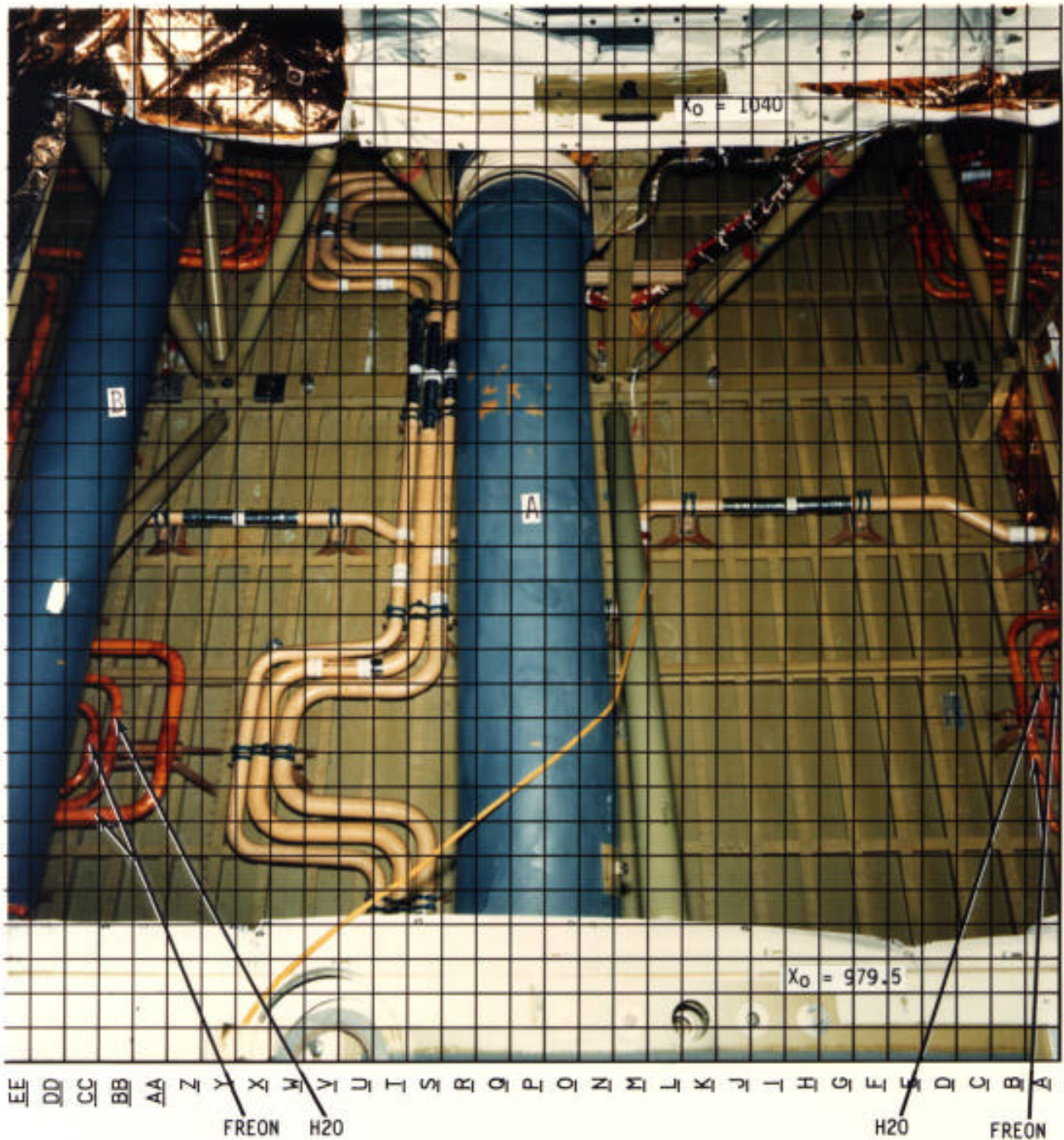
BAY 7 LOOKING AFT



EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

BAY 8 LOOKING AFT



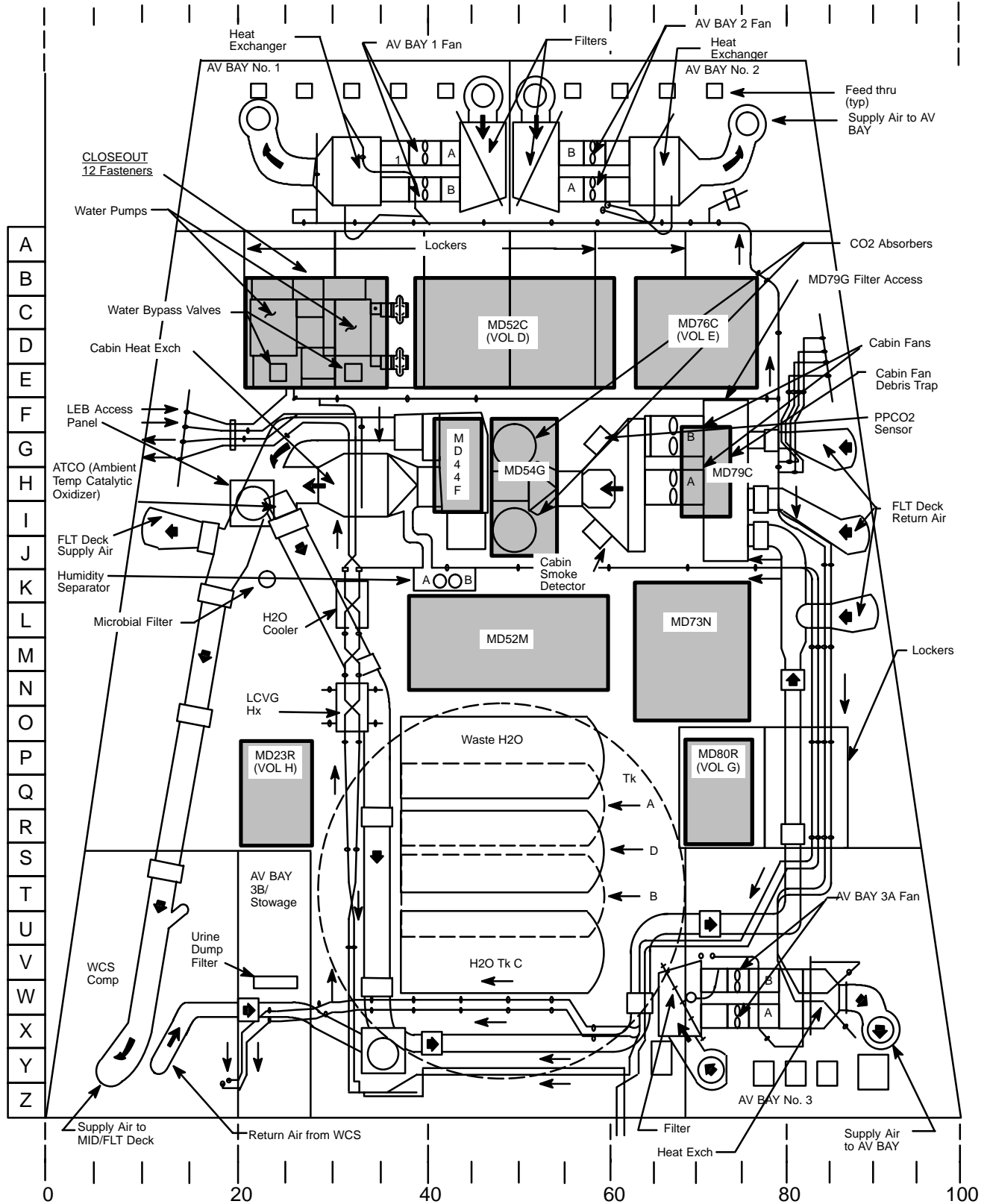
- A - PRE/POST FLIGHT MID FUSE PURGE LINE
- B - PRE/POST FLIGHT PURGE LINE

CREW CABIN BOTTOM DECK COMPARTMENT

LOWER EQUIPMENT BAY (OV103,OV104)	3-ii
LOWER EQUIPMENT BAY (OV102)	3-iii
LOWER EQUIPMENT BAY (OV105)	3-iv
H2 SEPARATORS, 576 BULKHEAD, WIRES AND PLUMBING	3-1
VACUUM VENT, ARS DUCTS, WIRES	3-2
576 BULKHEAD, ARS DUCTS, PLUMBING	3-3
VACUUM VENT, TANK C, ARS DUCTS, WIRES	3-4
576 BULKHEAD WIRE AND PLUMBING FEEDTHROUGHS, VACUUM VENT ...	3-5
WIRING, WATER MANAGEMENT PANEL	3-6
WIRING, L/H MAIN WIRE HARNESSSES	3-7
HUMIDITY SEPARATORS, GALLEY H2O CHILLER	3-8
HUMIDITY SEPARATORS, CABIN HEAT EXCHANGER, WIRES AND PLUMBING	3-9
MAIN CABIN FAN, ARS DUCTING, HEAT EXCHANGER	3-10
WIRING, ARS HEAT EXCHANGER	3-11
WIRING, CABIN AIR TEMPERATURE CONTROL	3-12
WIRING, WATER PUMPS	3-13
AV BAY 1, FANS AND WIRING	3-14
WIRING, R/H BAY 2 HEAT EXCHANGER	3-15
WIRING, CABIN FANS	3-16
WIRING, R/H MAIN WIRE HARNESSSES	3-17
AV BAY 3A FANS, 576 BULKHEAD FEEDTHROUGHS	3-18
576 BULKHEAD WIRE AND PLUMBING FEEDTHROUGHS	3-19

CREW CABIN -
ECLS COMPT

LOWER EQUIPMENT BAY

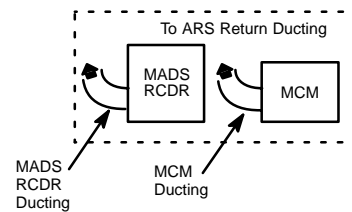
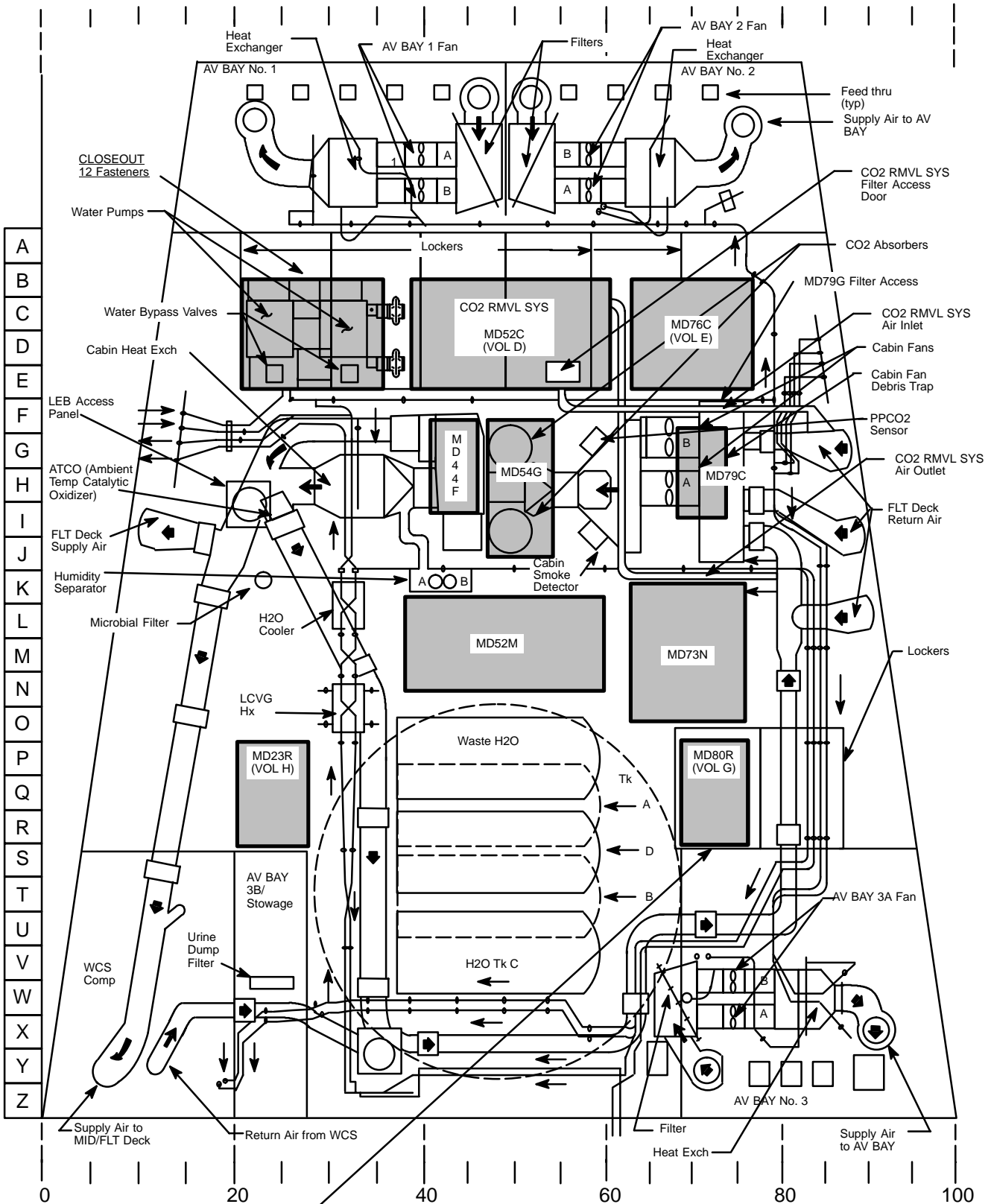


CREW CABIN - ECLS COMPT

sd3_001
11/01/95

OV103,4
SYS/ALL/GEN A,7

LOWER EQUIPMENT BAY



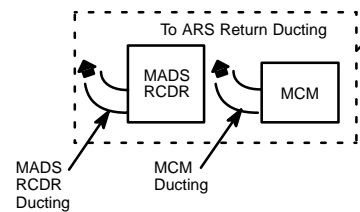
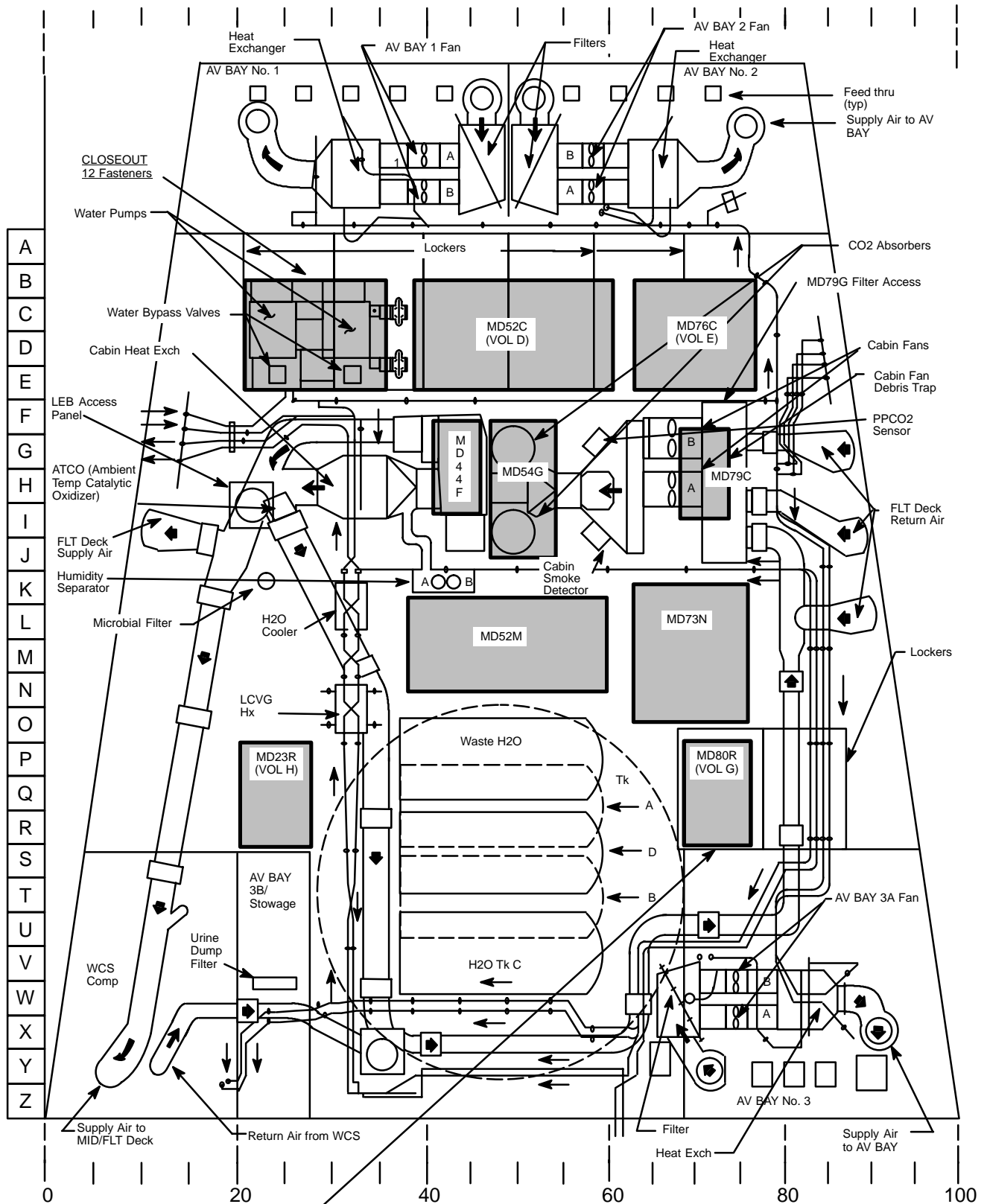
NOTE: Below AV Bay in Vol G of ECLSS Bay

sd3_002
11/01/95

OV102

SYS/ALL/GEN A,7

LOWER EQUIPMENT BAY



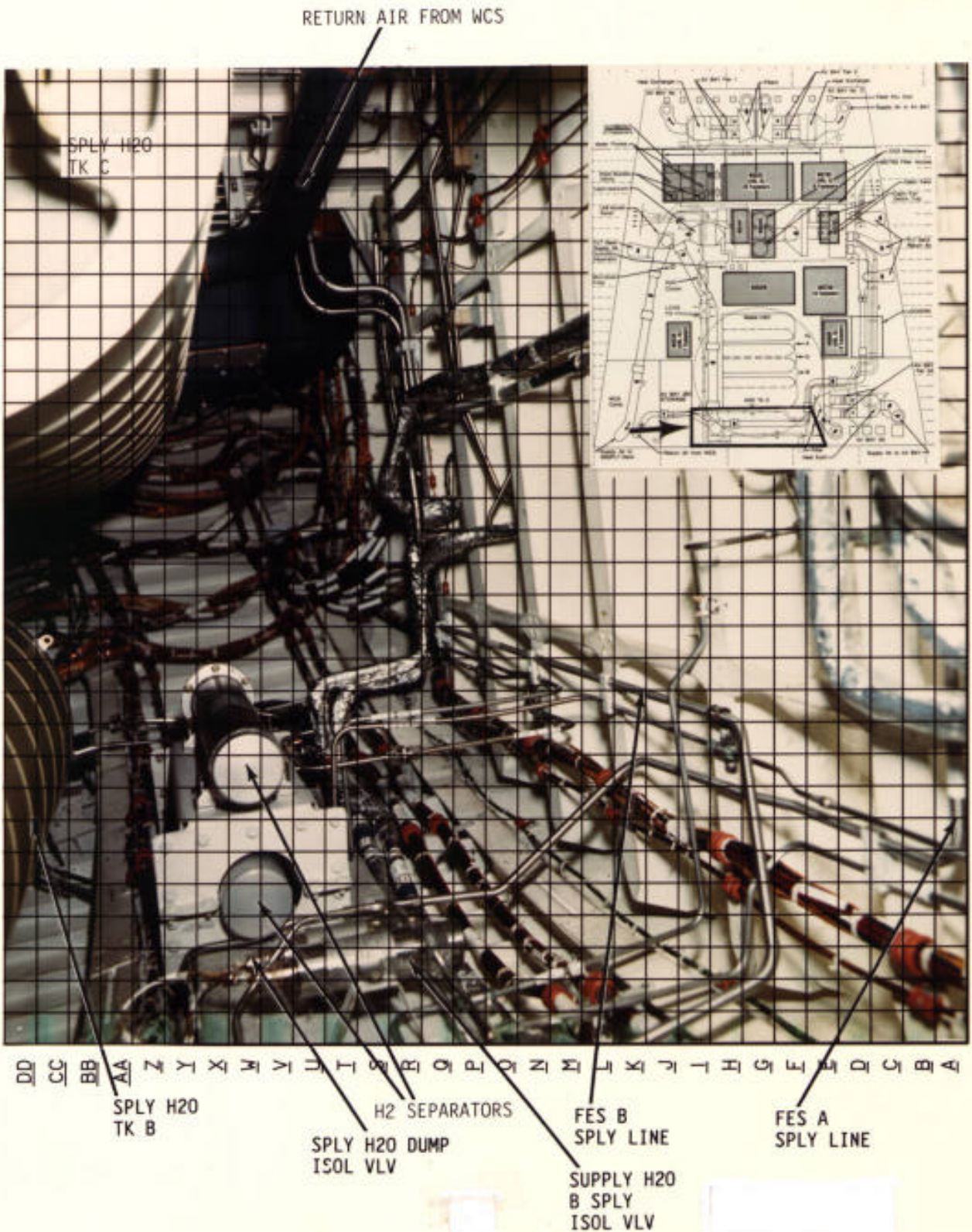
NOTE: Below AV Bay in Vol G of ECLSS Bay

sd4_001
11/01/95

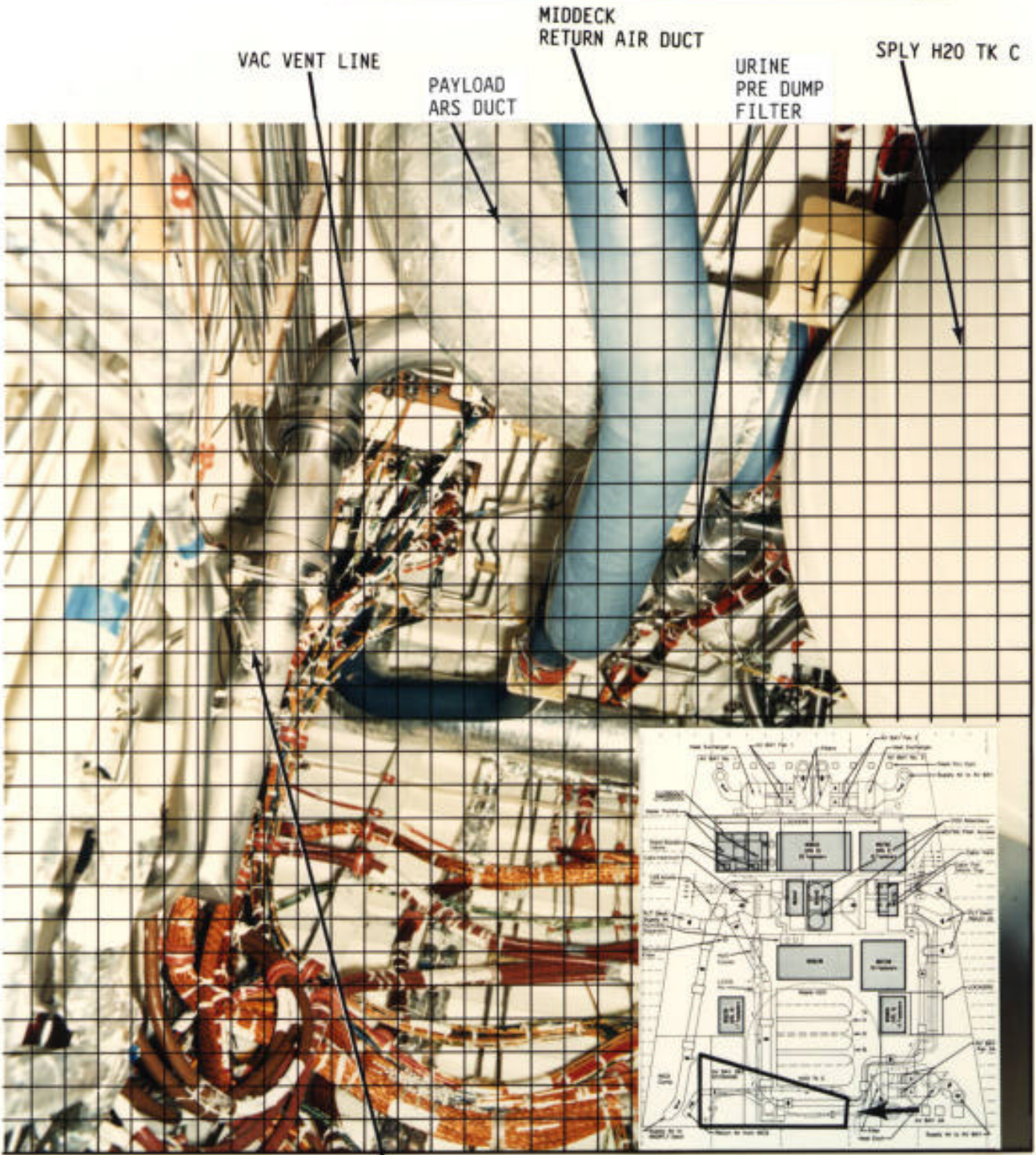
OV105

SYS/ALL/GEN A,7

H2 SEPARATORS, 576 BULKHEAD, WIRES AND PLUMBING



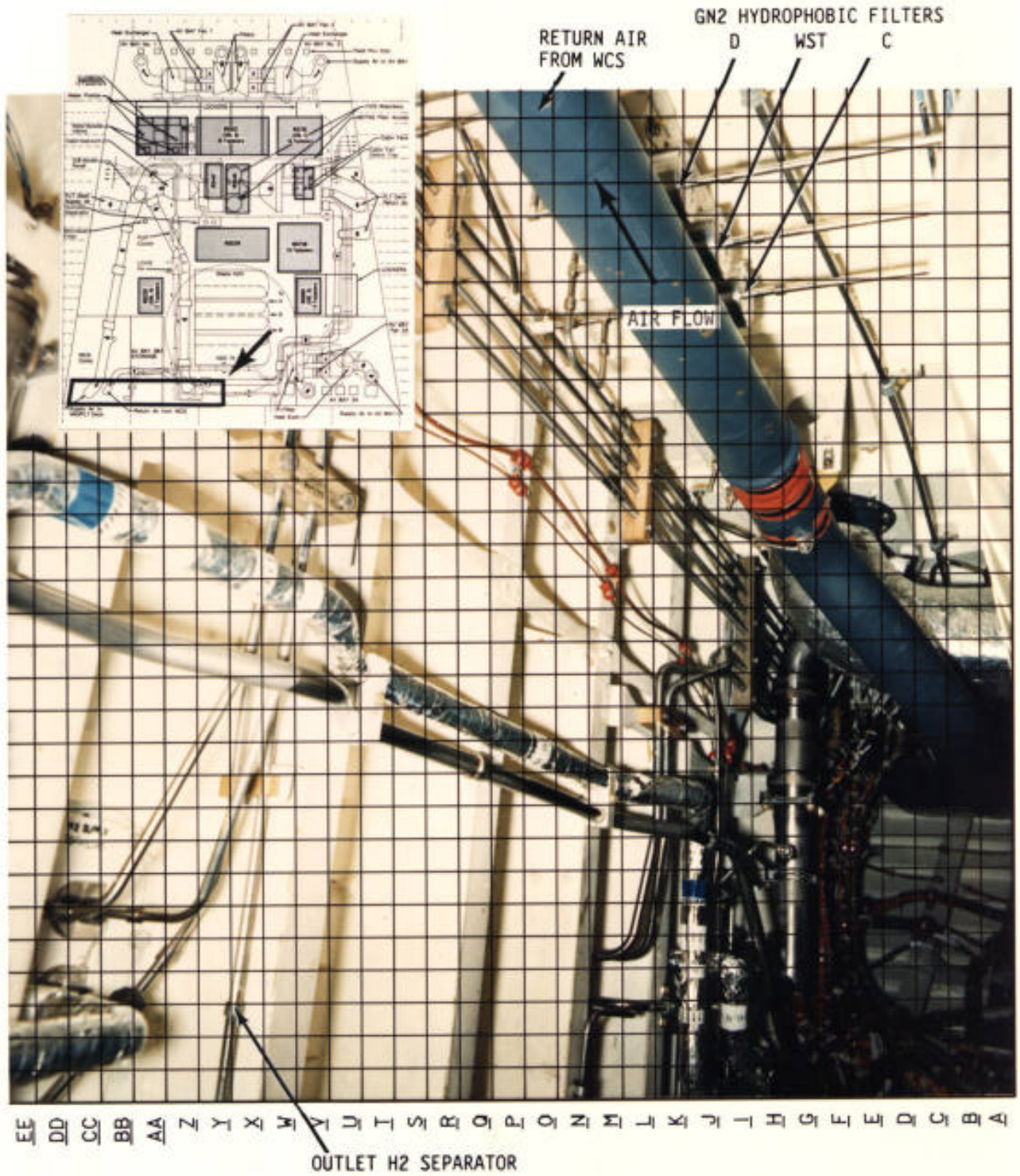
VACUUM VENT, ARS DUCTS, WIRES



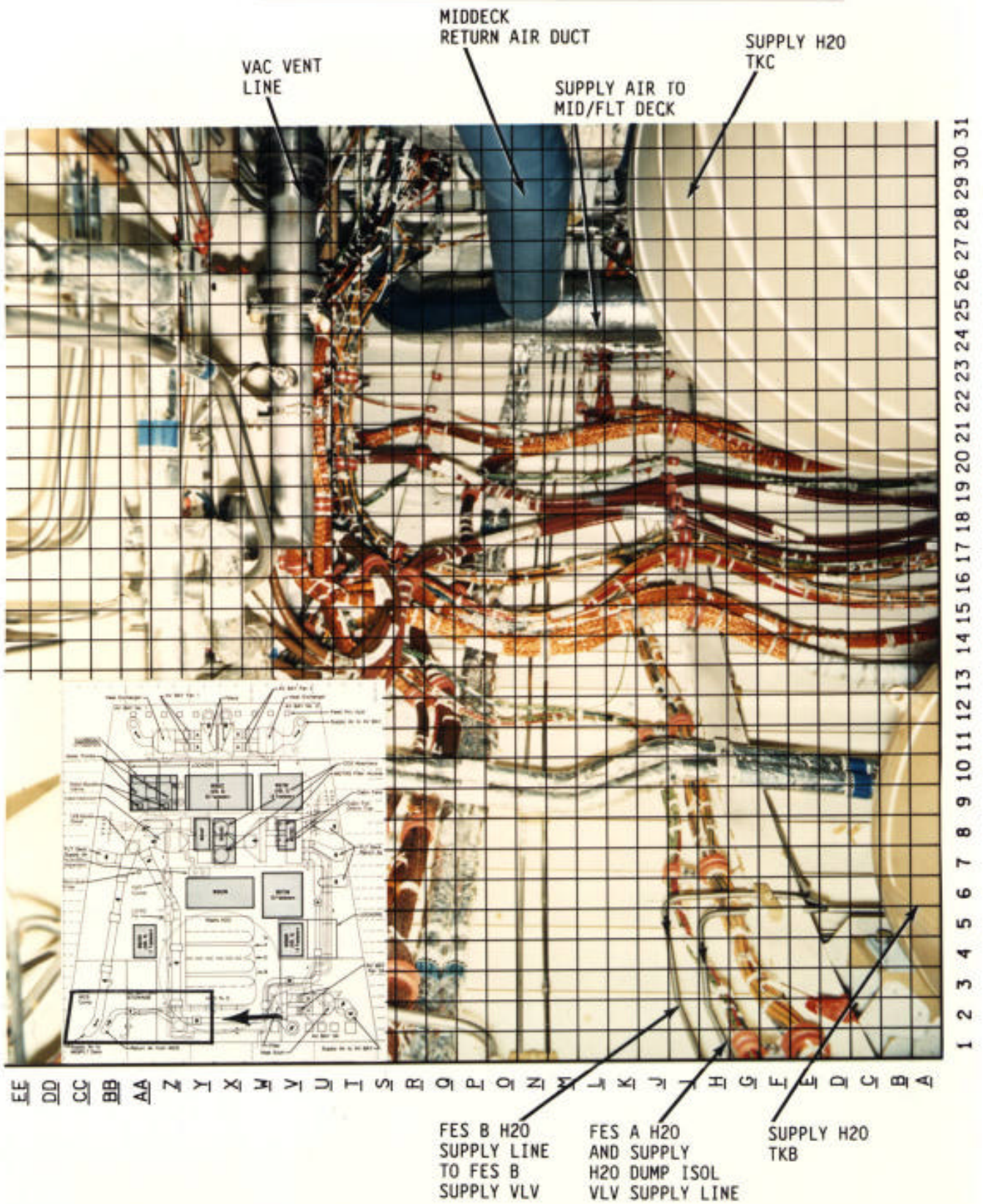
EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

VAC VENT LINE FROM H2 SEP

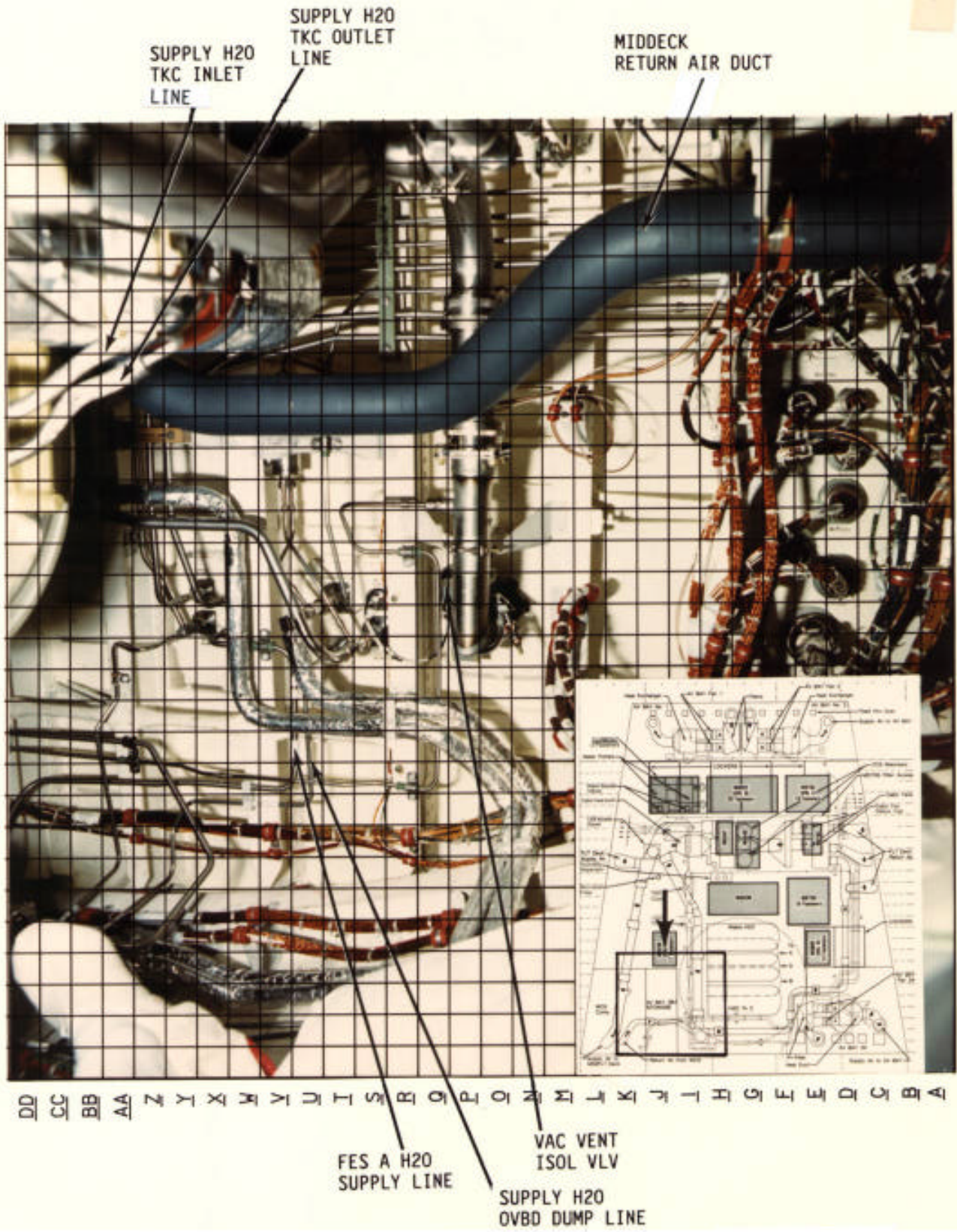
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



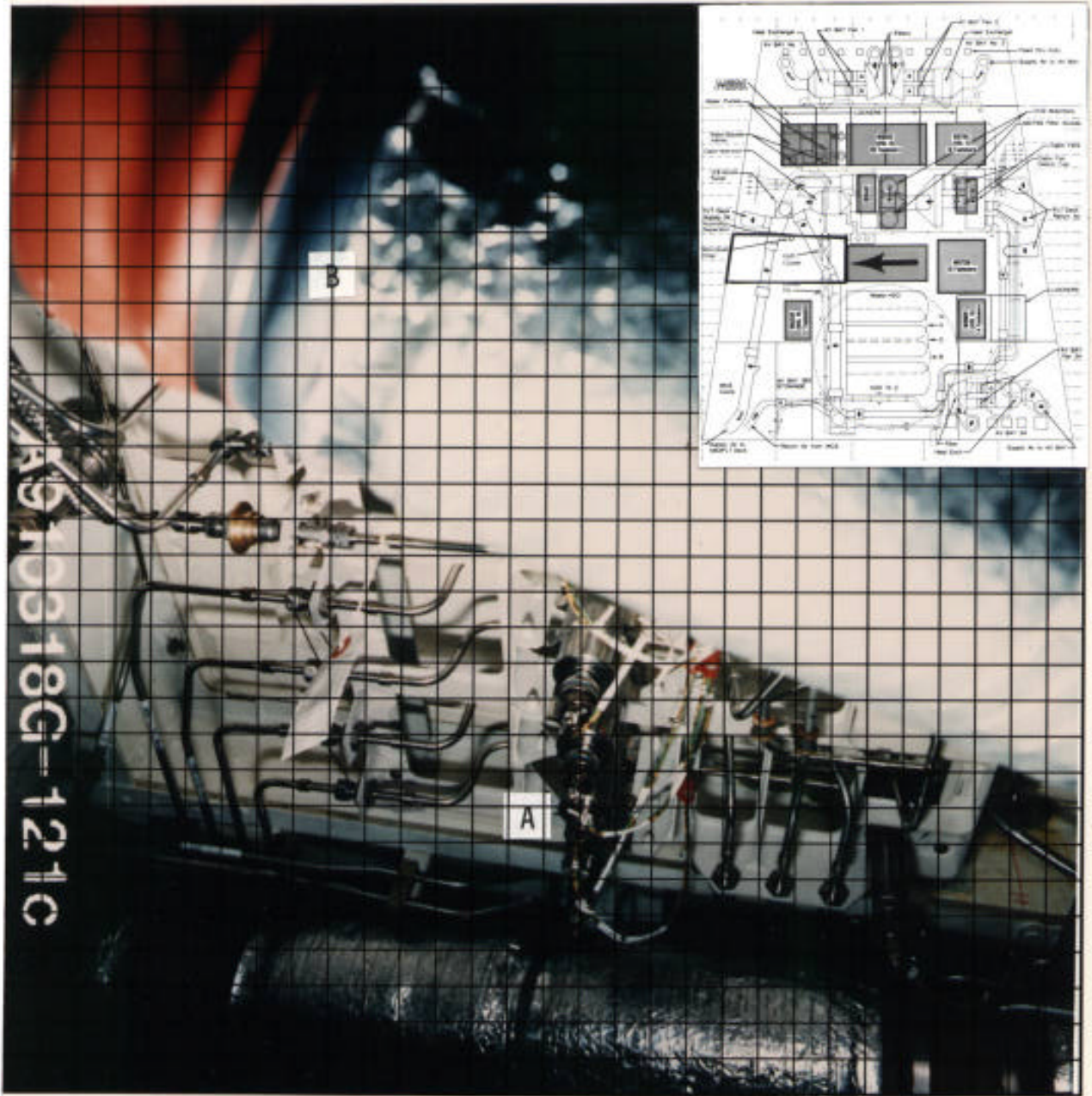
VACUUM VENT, TANK C, ARS DUCTS, WIRES



576 BULKHEAD WIRE AND PLUMBING FEEDTHROUGHS, VACUUM VENT



WIRING, WATER MANAGEMENT PANEL



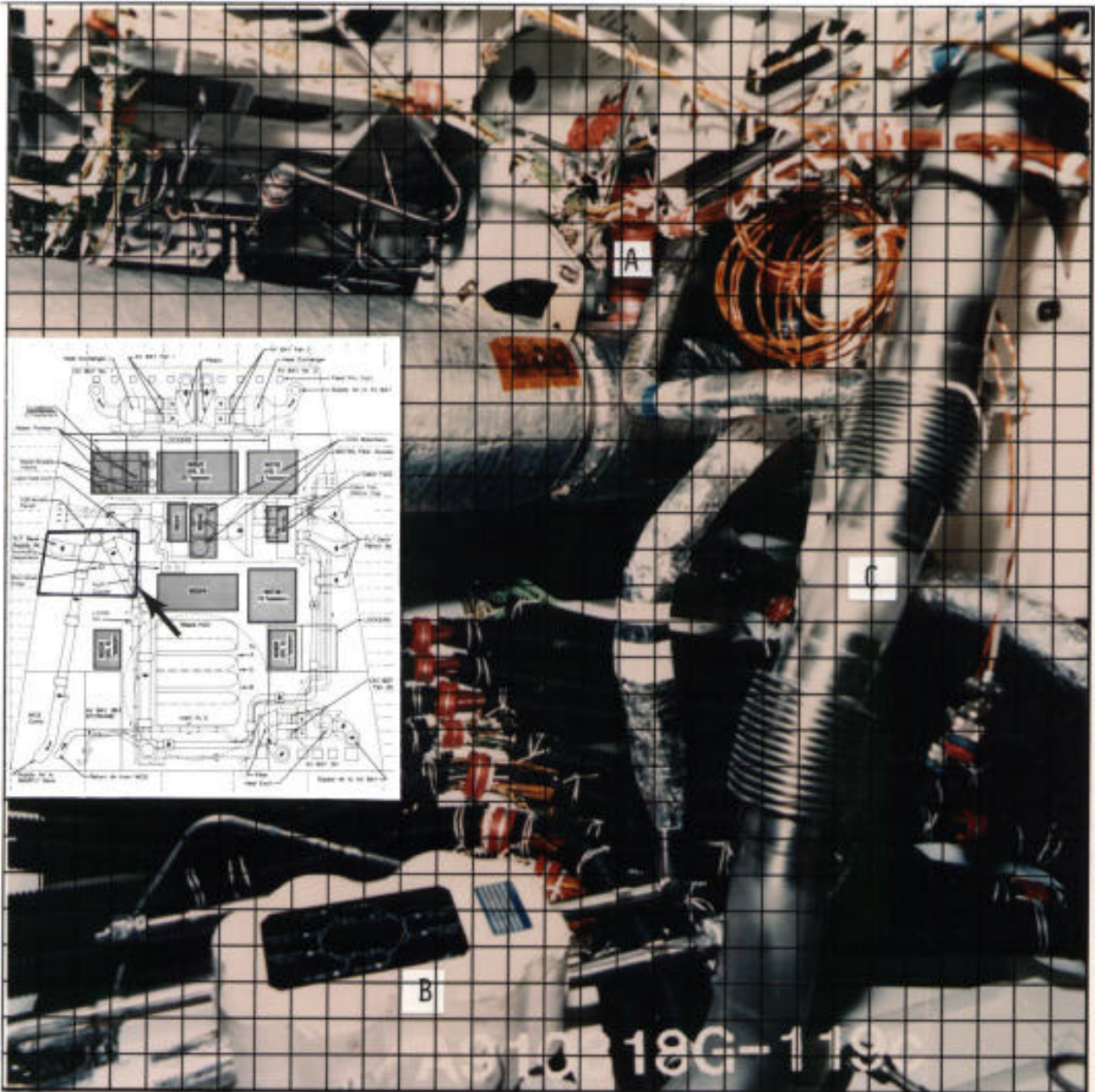
AS10818G-121C

DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

A - H2O VLVS FOR POTABLE H2O SYS AND WASTE
 B - Y-DUCT

WIRING, L/H MAIN WIRE HARNESSSES

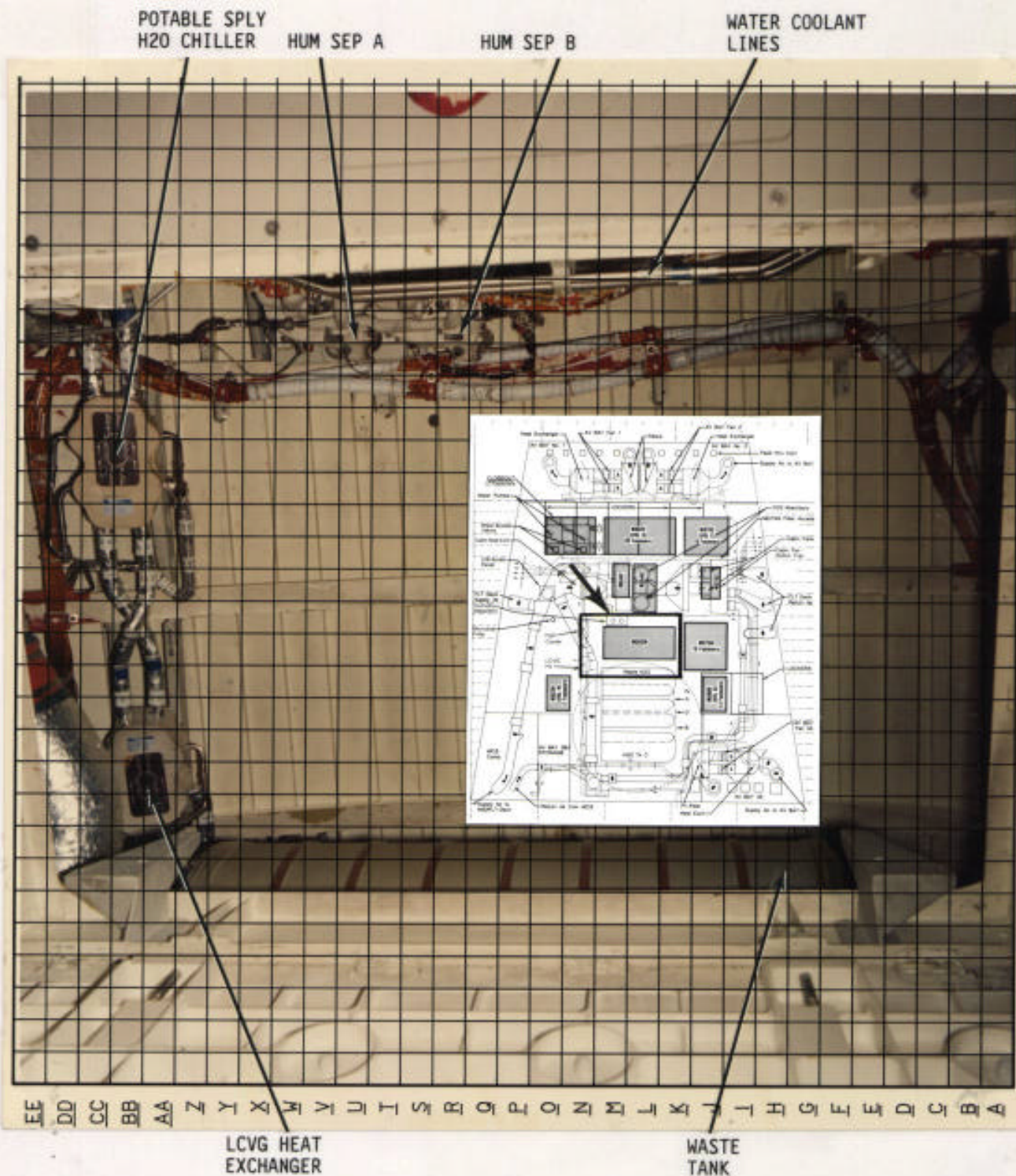


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

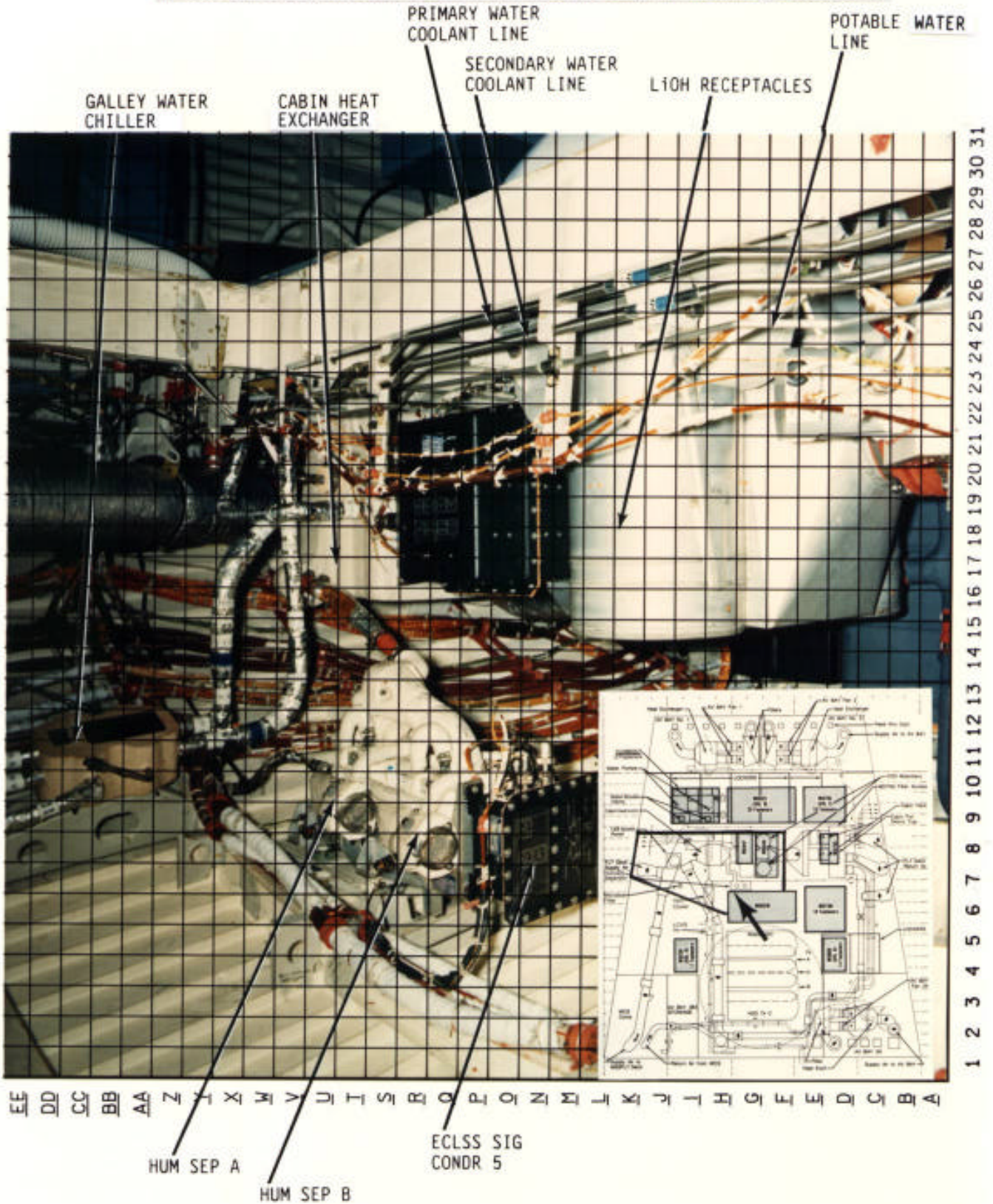
DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - TO ATCO CANISTER; TAKES TRACE CONTAMINANTS OUT OF THE AIR
- B - GALLEY H2O COOLER
- C - DUCT FROM RCRS

HUMIDITY SEPARATORS, GALLEY H2O CHILLER



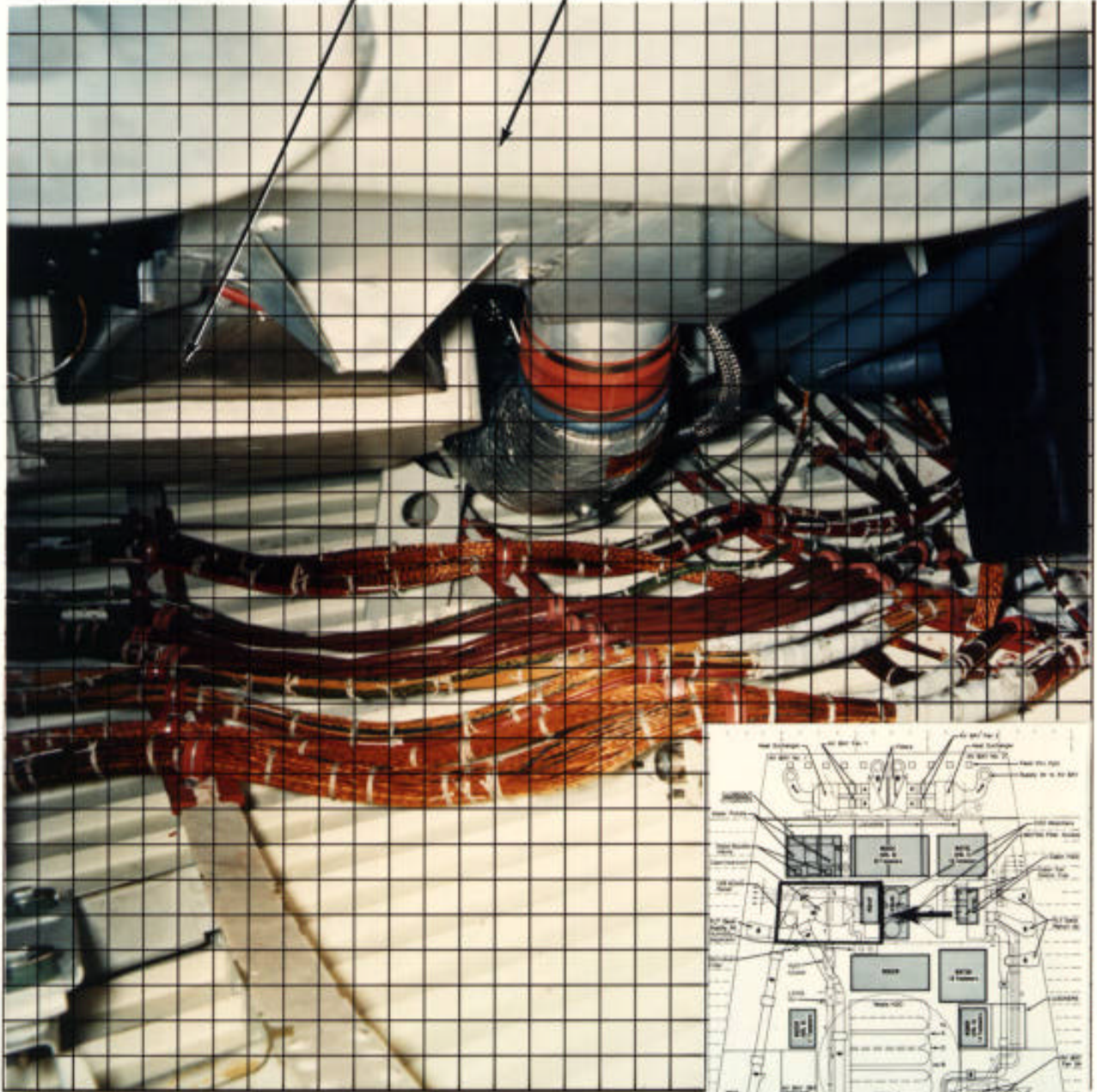
HUMIDITY SEPARATORS, CABIN HEAT EXCHANGER, WIRES AND PLUMBING |



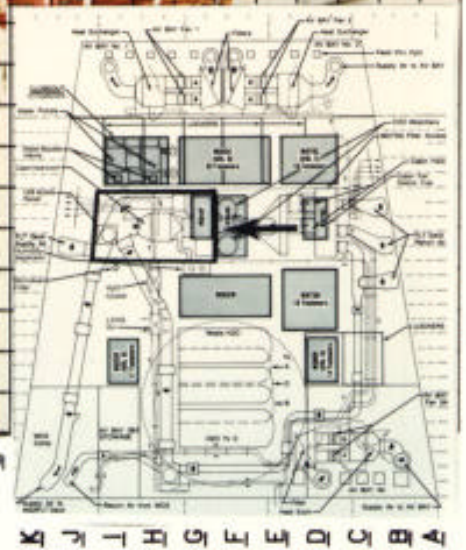
MAIN CABIN FAN, ARS DUCTING, HEAT EXCHANGER

CABIN HEAT EXCHANGERS

L10H HOUSING



EE DD CC BB AA Z Y X W V U T S R Q P O N M L

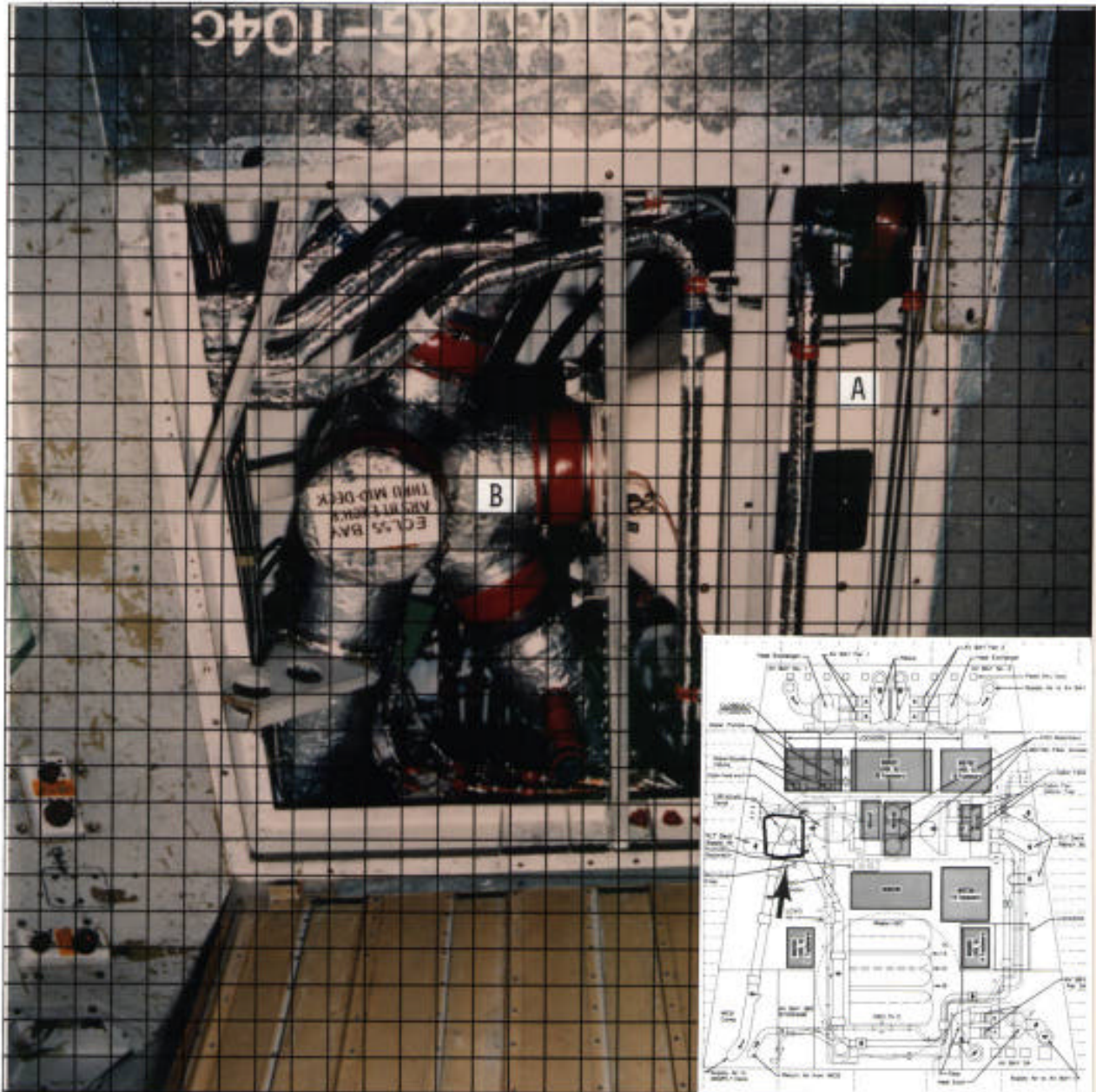


K J I H G F E D C B A

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

WIRING, ARS HEAT EXCHANGER

I
↑
FWD



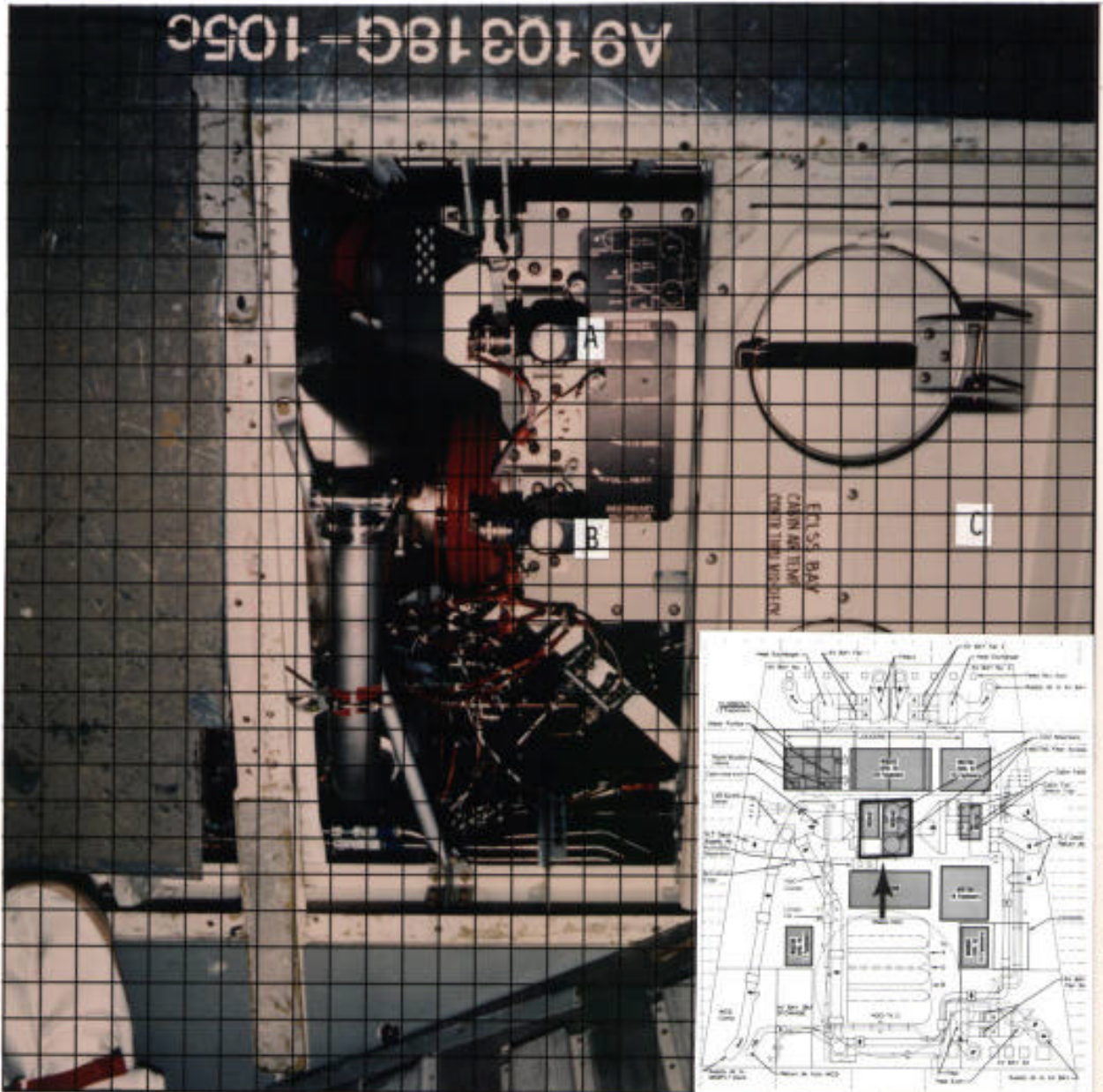
DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

↑ PORT

- A - HEAT EXCHANGER; TAKES HUMIDITY OUT OF AIR AND COOLS IT
- B - AIR DUCTS

WIRING, CABIN AIR TEMPERATURE CONTROL

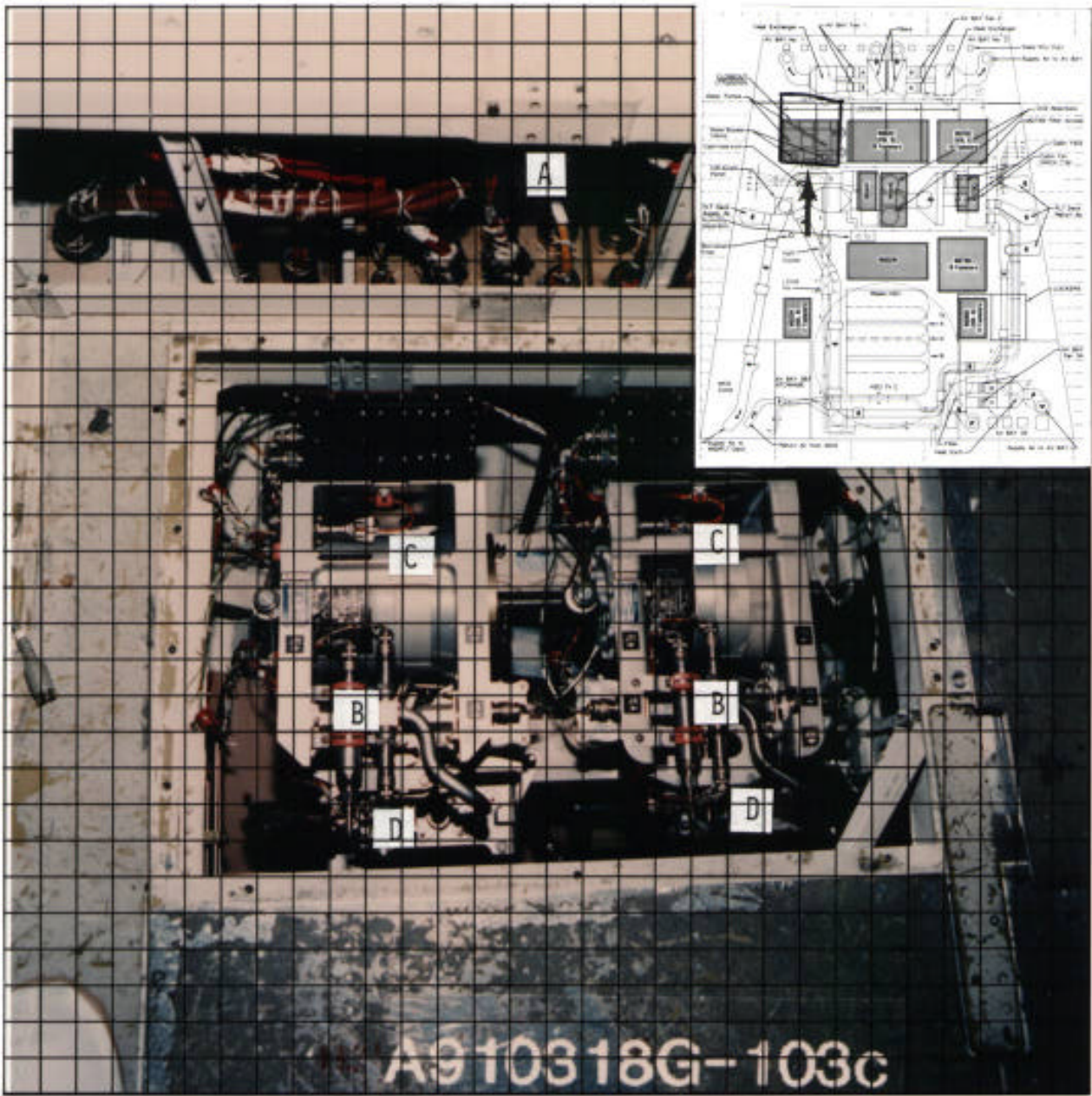
FWD ↑



DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A
 ↑ PORT

- A - TEMP CONTROL A
- B - TEMP CONTROL B
- C - CO2 SCRUBBER (HOUSING FOR L10H CANISTERS)

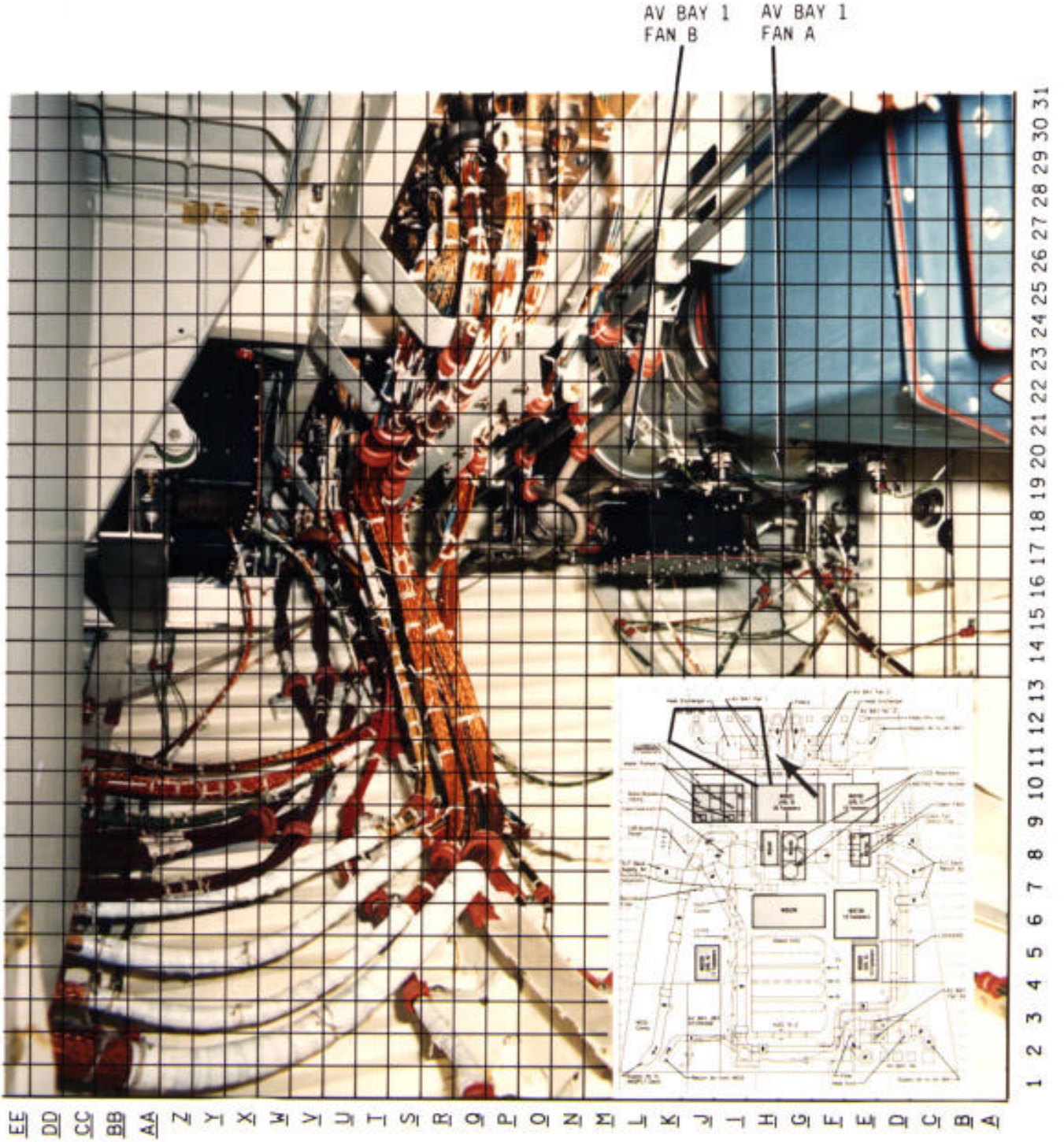
WIRING, WATER PUMPS

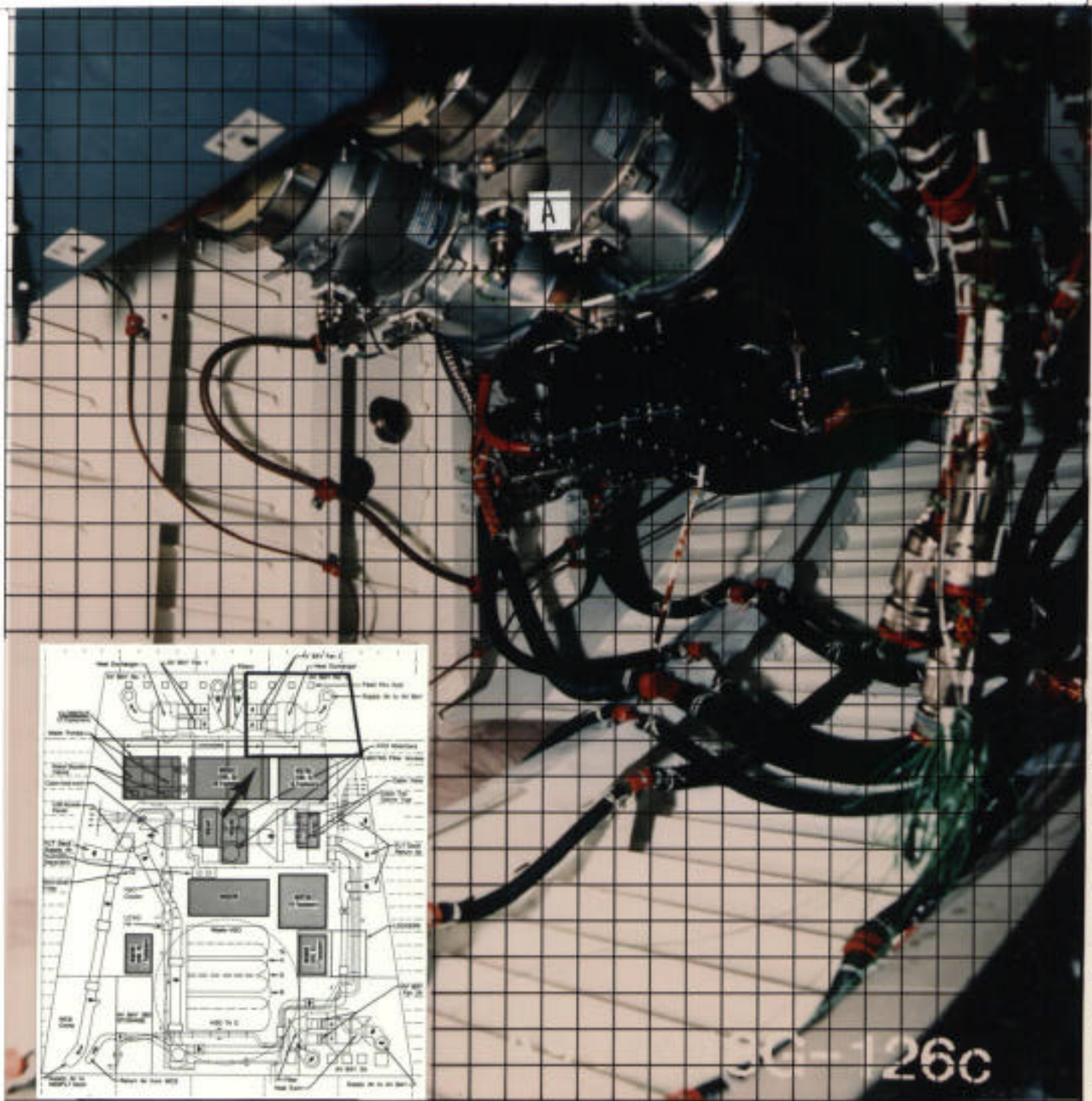


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A
 ← PORT

- A - AV BAY WIRING
- B - TEMP & PRESS TRANSDUCERS
- C - ACCUMULATORS
- D - VALVES

AV BAY 1, FANS AND WIRING

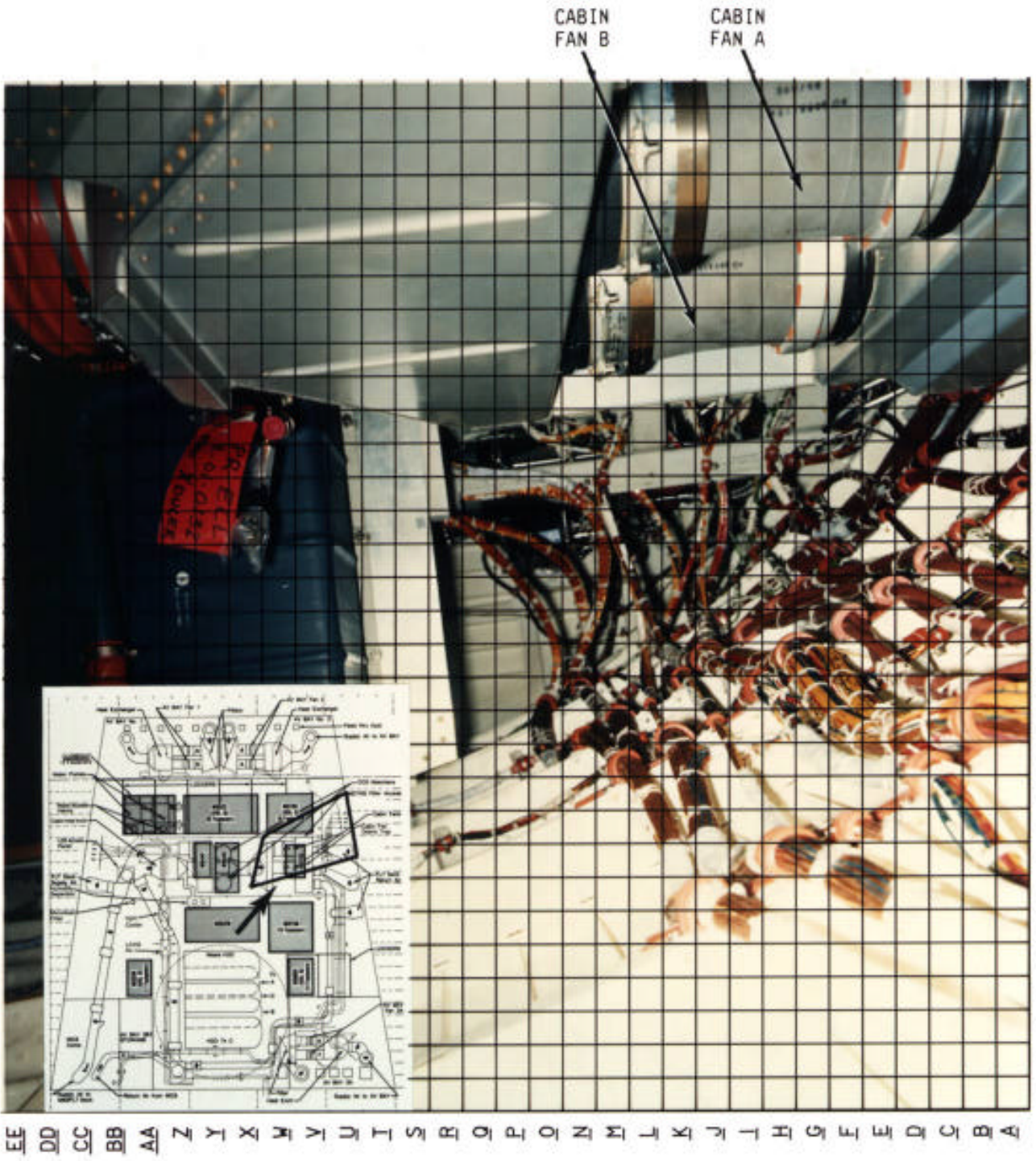




DD CC BB AA Z Y X M V U T S R Q P O N M L K J I H G F E D C B A

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

A - AV BAY #2 FANS



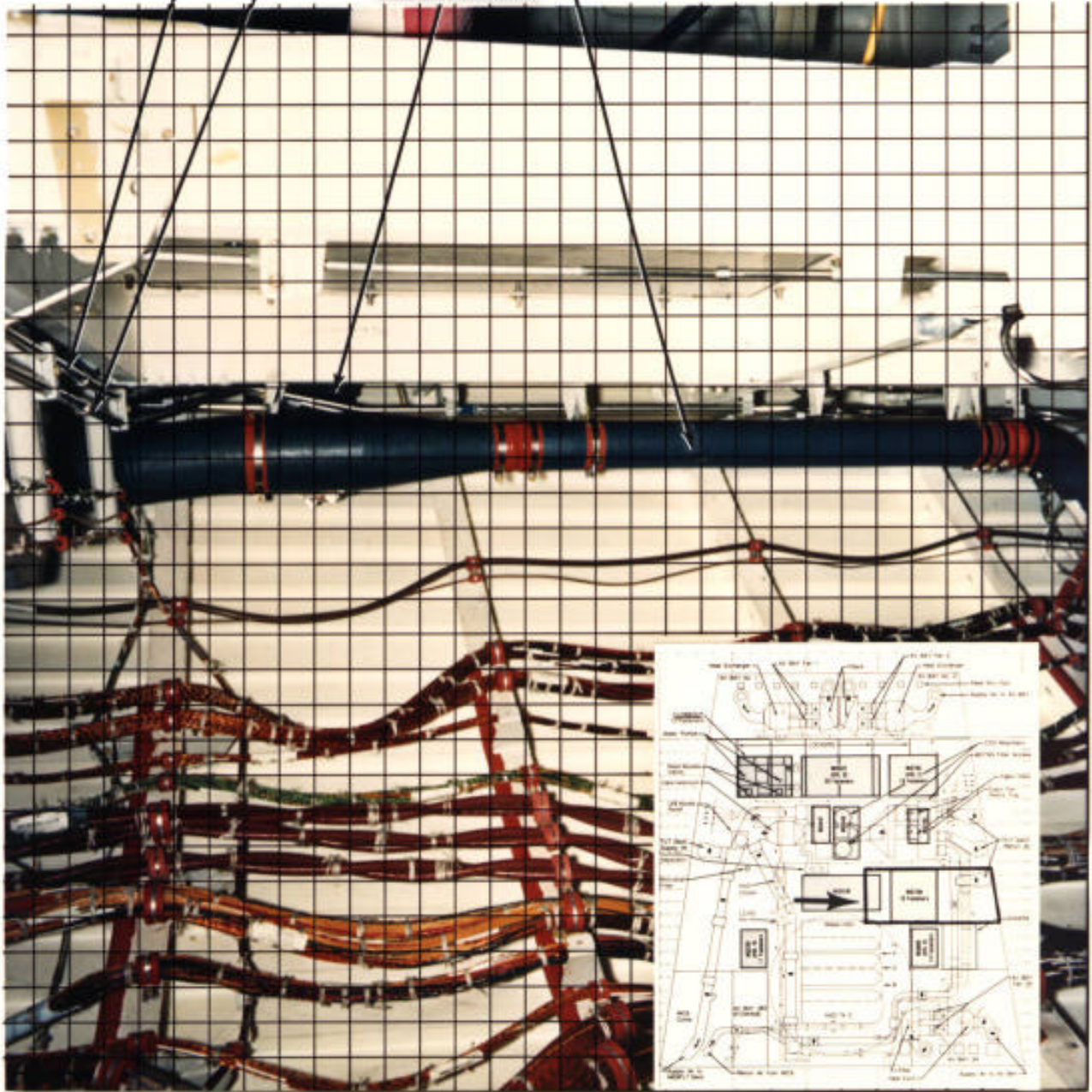
WIRING, R/H MAIN WIRE HARNESSES

PRIMARY WATER COOLANT LINE

SECONDARY WATER COOLANT LINE

RETURN AIR FROM FLT DECK

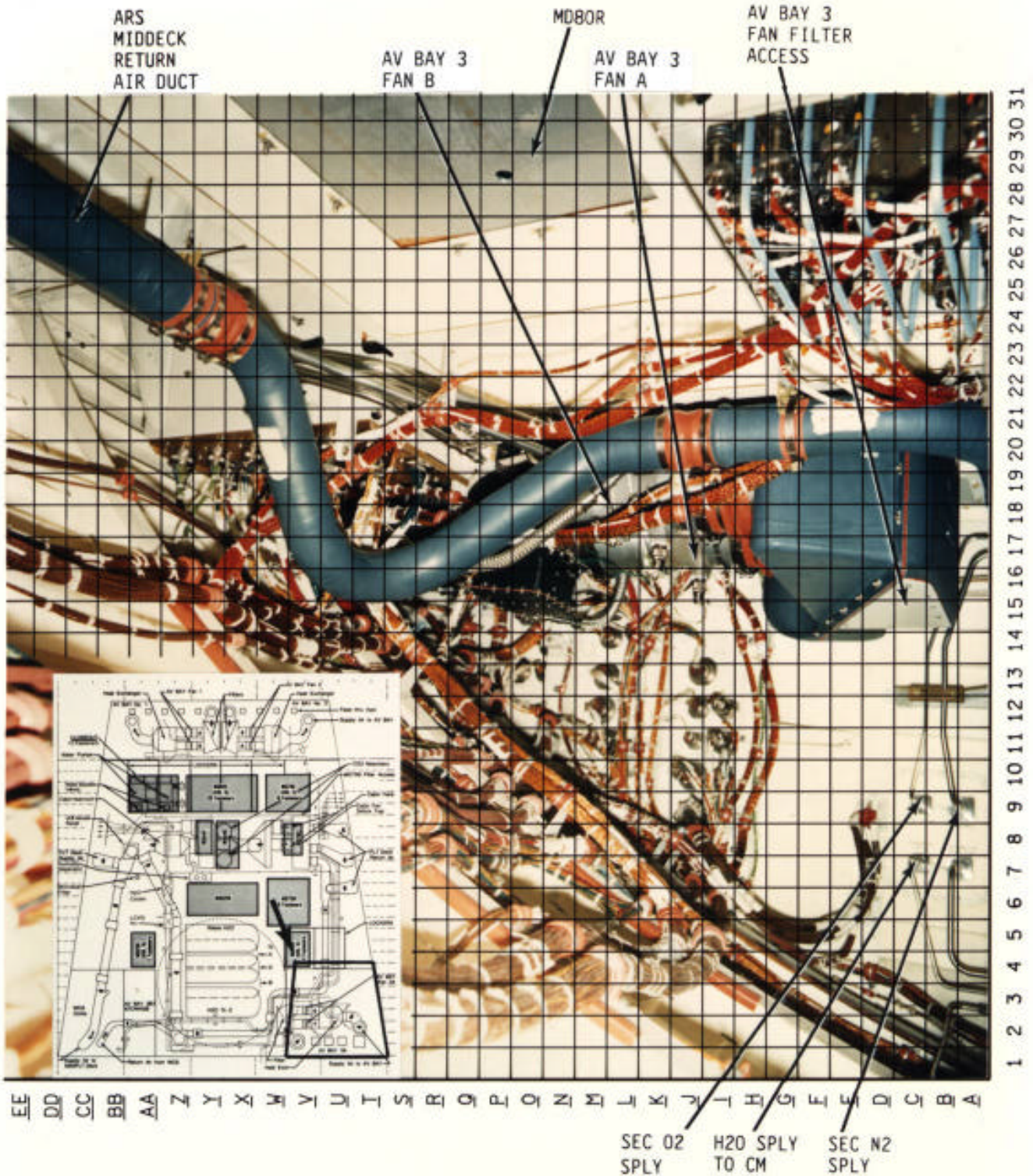
MIDDECK AIR RETURN (FLOW ←)



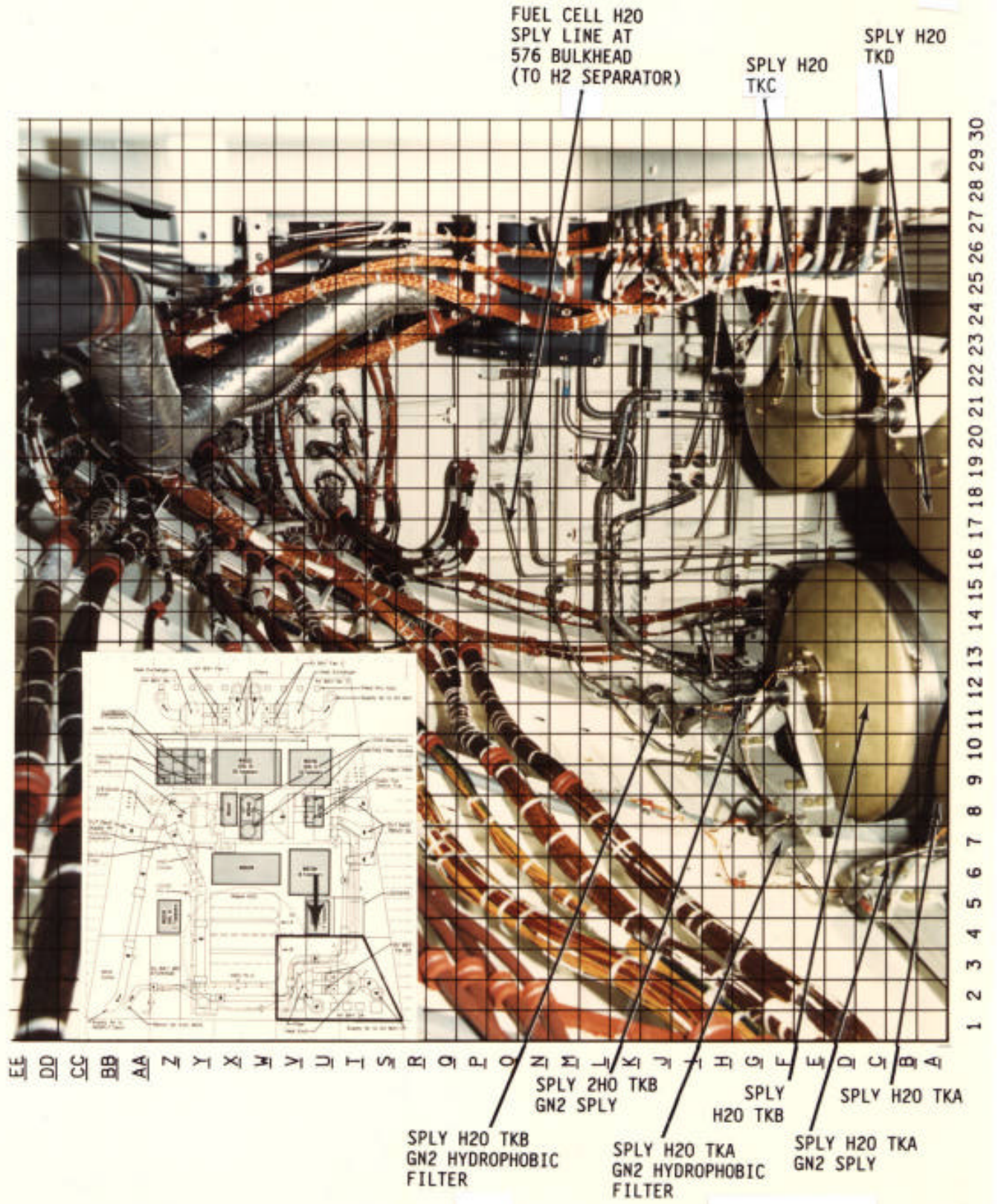
EE DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

AV BAY 3A FANS, 576 BULKHEAD FEEDTHROUGHS



576 BULKHEAD WIRE AND PLUMBING FEEDTHROUGHS



OV105-SPECIFIC PHOTOGRAPHS

LOWER EQUIPMENT BAY 4-ii

WIRING, TANK CONNECTOR INTERFACE 4-1

WIRING, BAY 3A HEAT EXCHANGER 4-2

WIRING, RECORDER (RELOCATION POSITION) 4-3

WIRING, RCRS CONNECTOR INTERFACE 4-4

WIRING, BAY 3A HEAT EXCHANGER 4-5

WIRING, L/H MAIN WIRE HARNESSSES 4-6

WIRING, VOL G LOCKER 4-7

WIRING, L/H POT TANKS 4-8

MID FUSELAGE, BAY 7 L/H LOWER 4-9

MID FUSELAGE, BAY 6 R/H LOWER 4-10

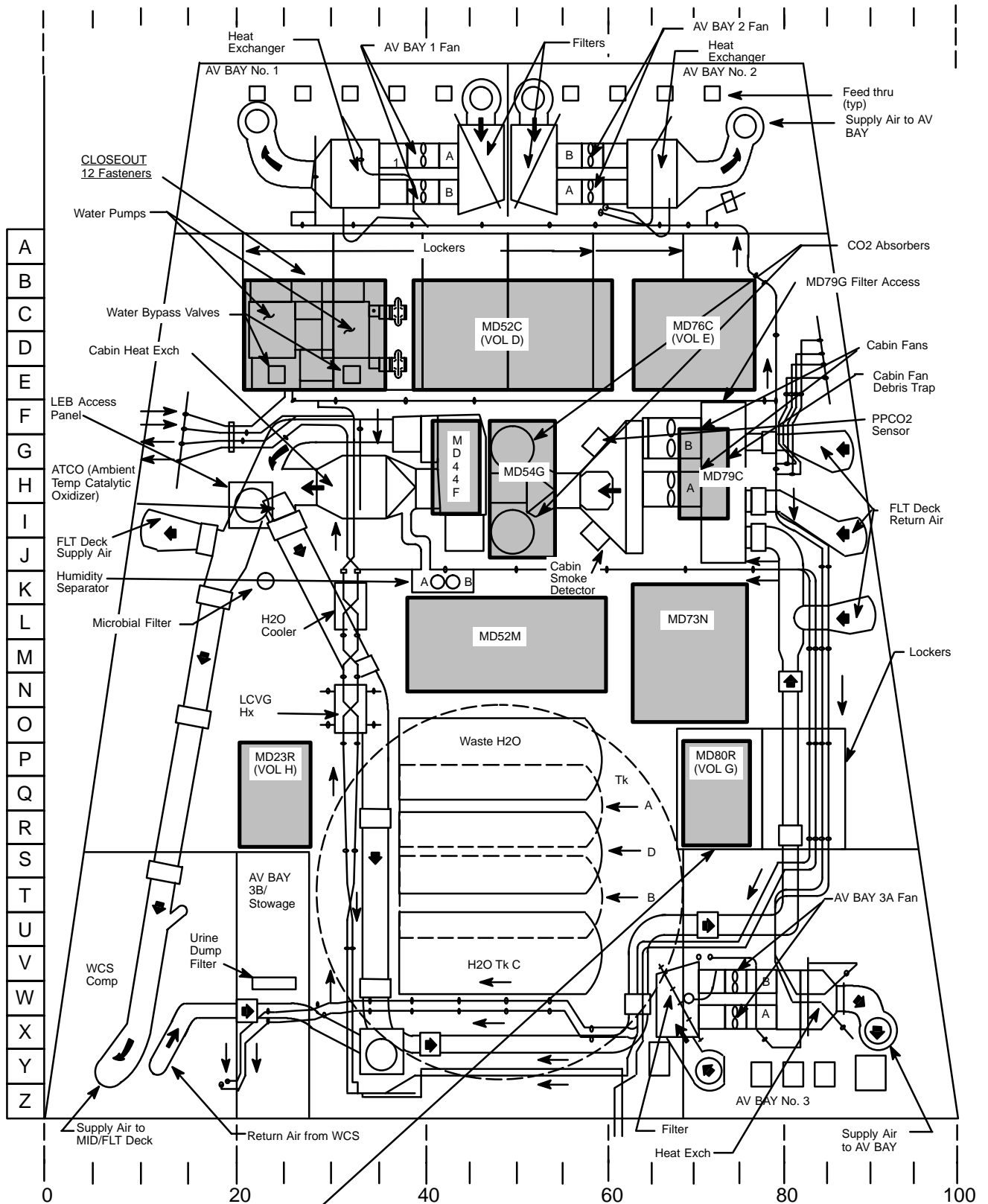
MID FUSELAGE, BAY 3 R/H LOWER 4-11

MID FUSELAGE, BAY 8 R/H LOWER 4-12

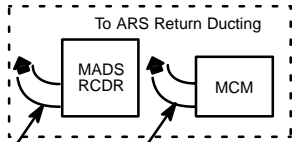
MID FUSELAGE, BAY 6 L/H LOWER 4-13

OV105
SPECIFIC

LOWER EQUIPMENT BAY



**OV105
SPECIFIC**

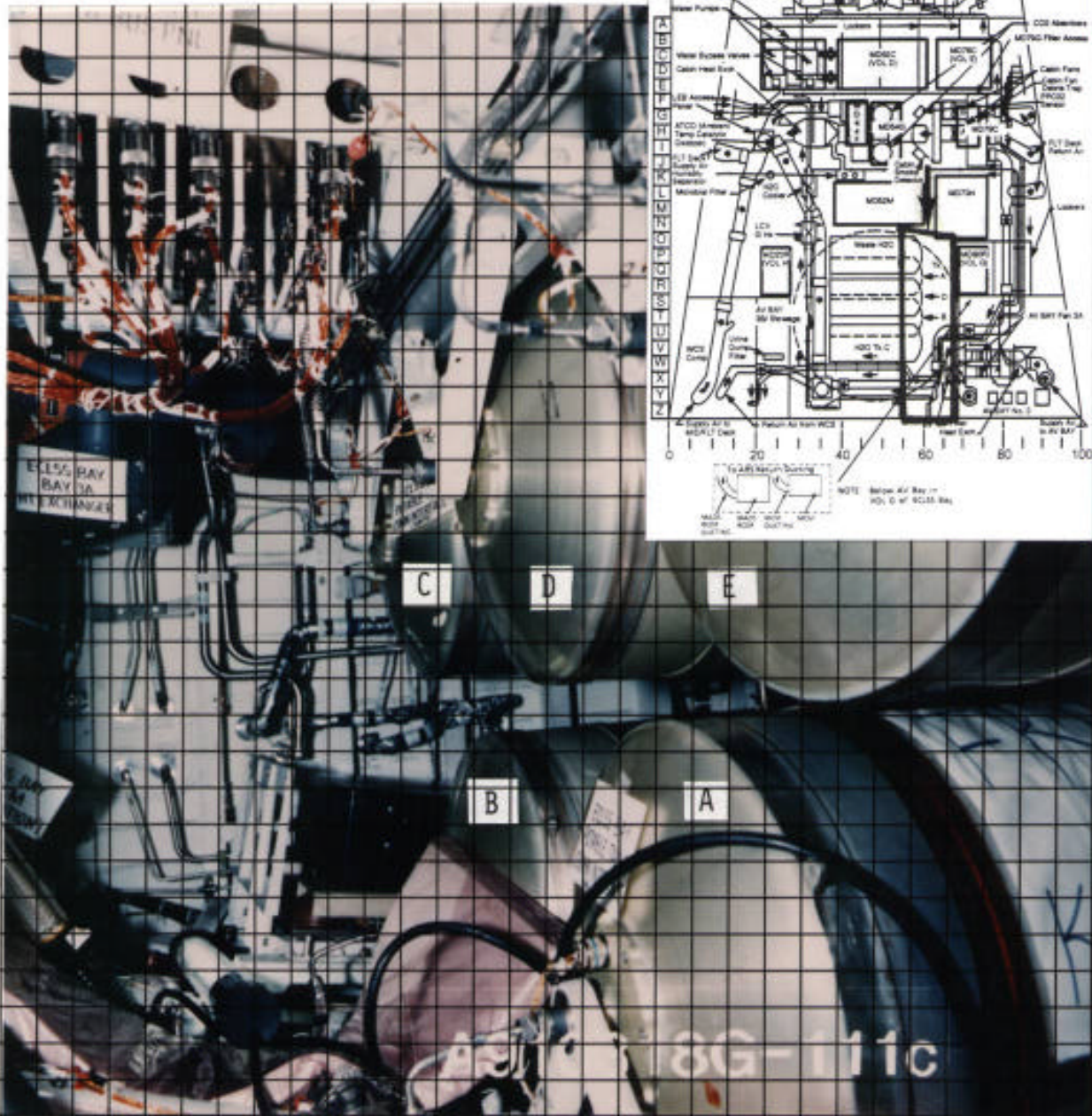


NOTE: Below AV Bay in Vol G of ECLSS Bay

sd4_001
11/01/95

OV105
SYS/5/GEN A,8

WIRING, TANK CONNECTOR INTERFACE

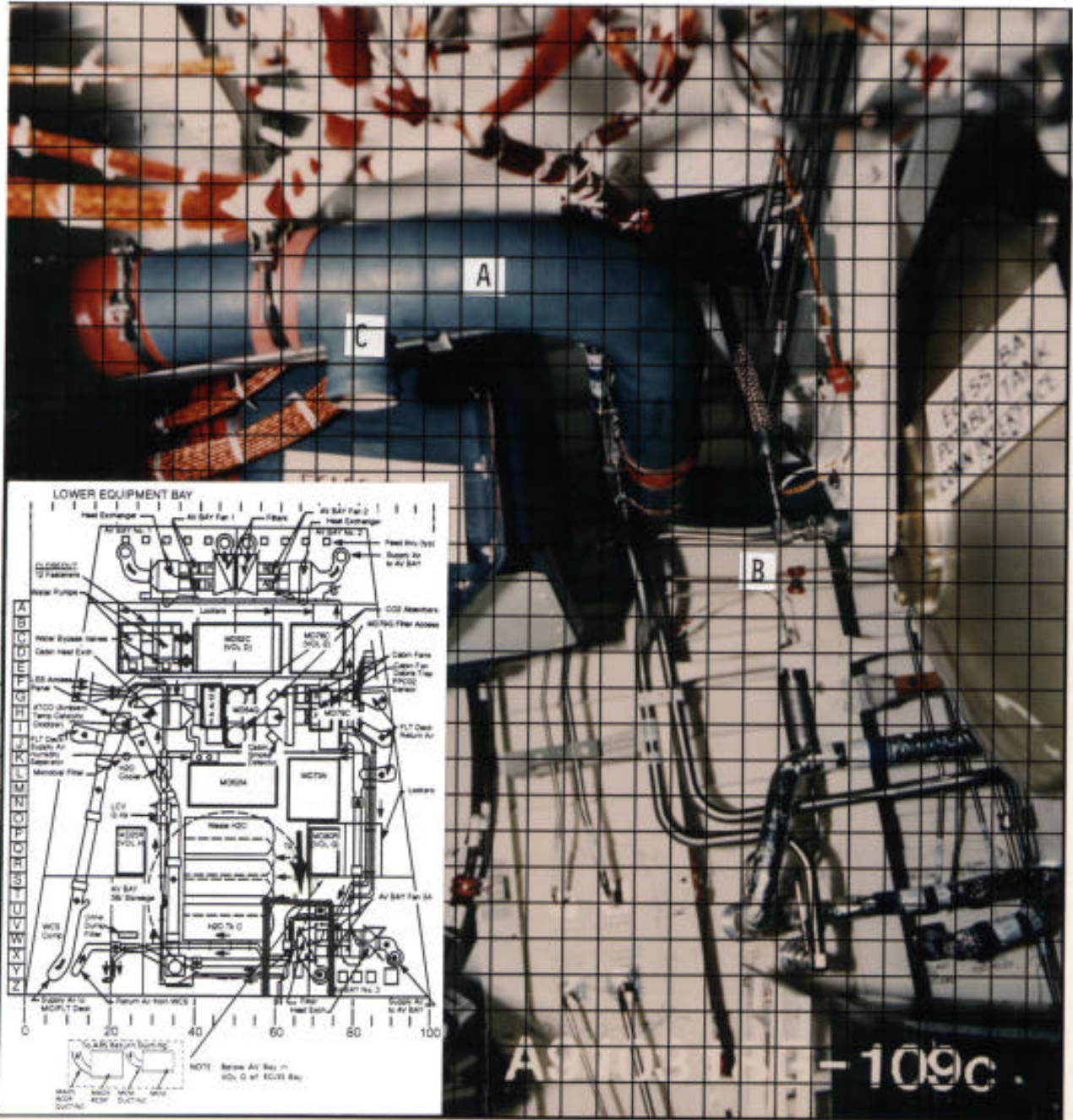


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - POTABLE H2O TANK A
- B - POTABLE H2O TANK B
- C - POTABLE H2O TANK C
- D - POTABLE H2O TANK D
- E - WASTE

OV105

WIRING, BAY 3A HEAT EXCHANGER

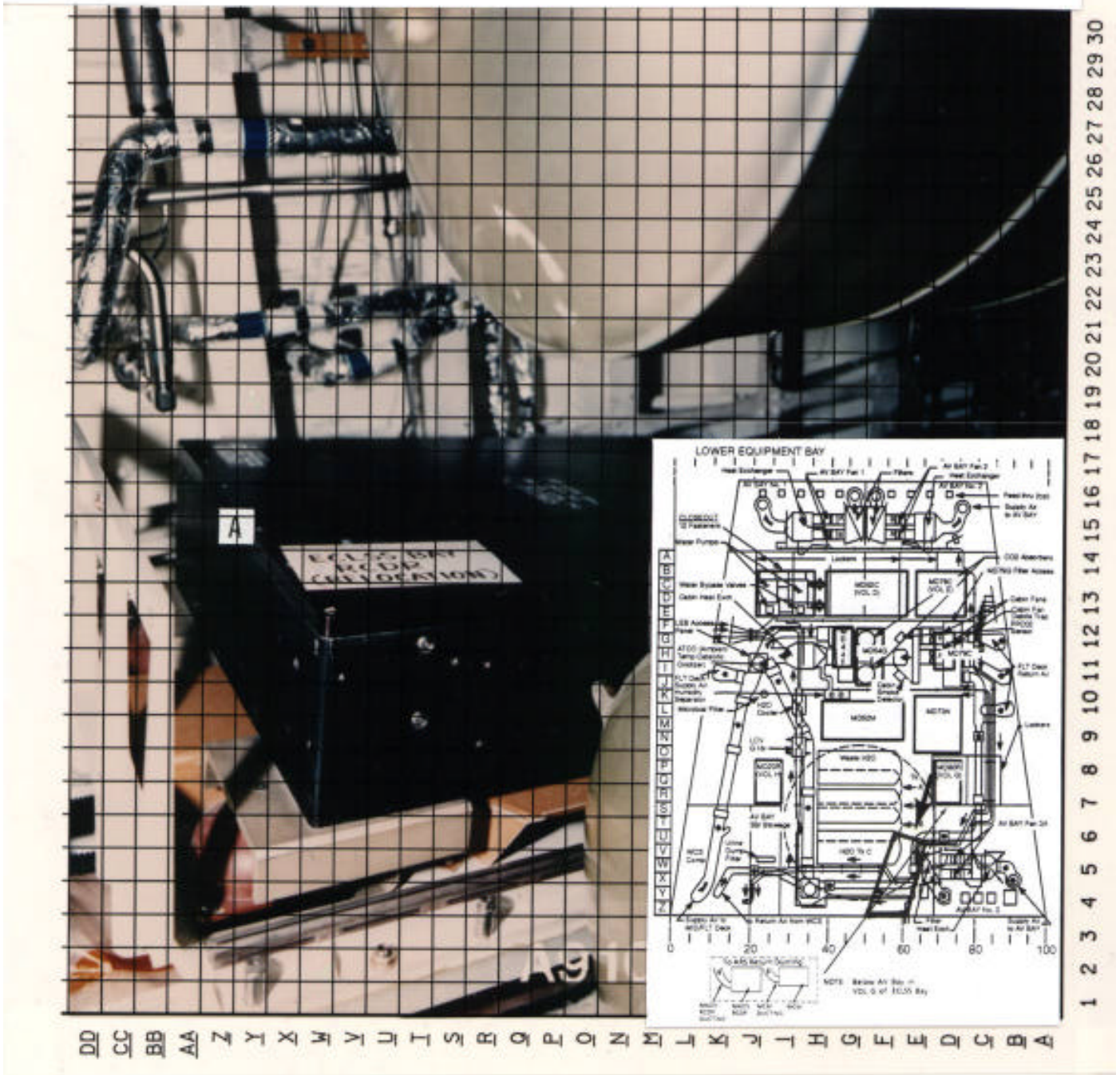


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - RETURN AIR FROM WCS
- B - N2 CONNECTOR INTERFACE TO PORTABLE H2O (TK C)
- C - MADCS COOLING AIR INTERFACE

OV105

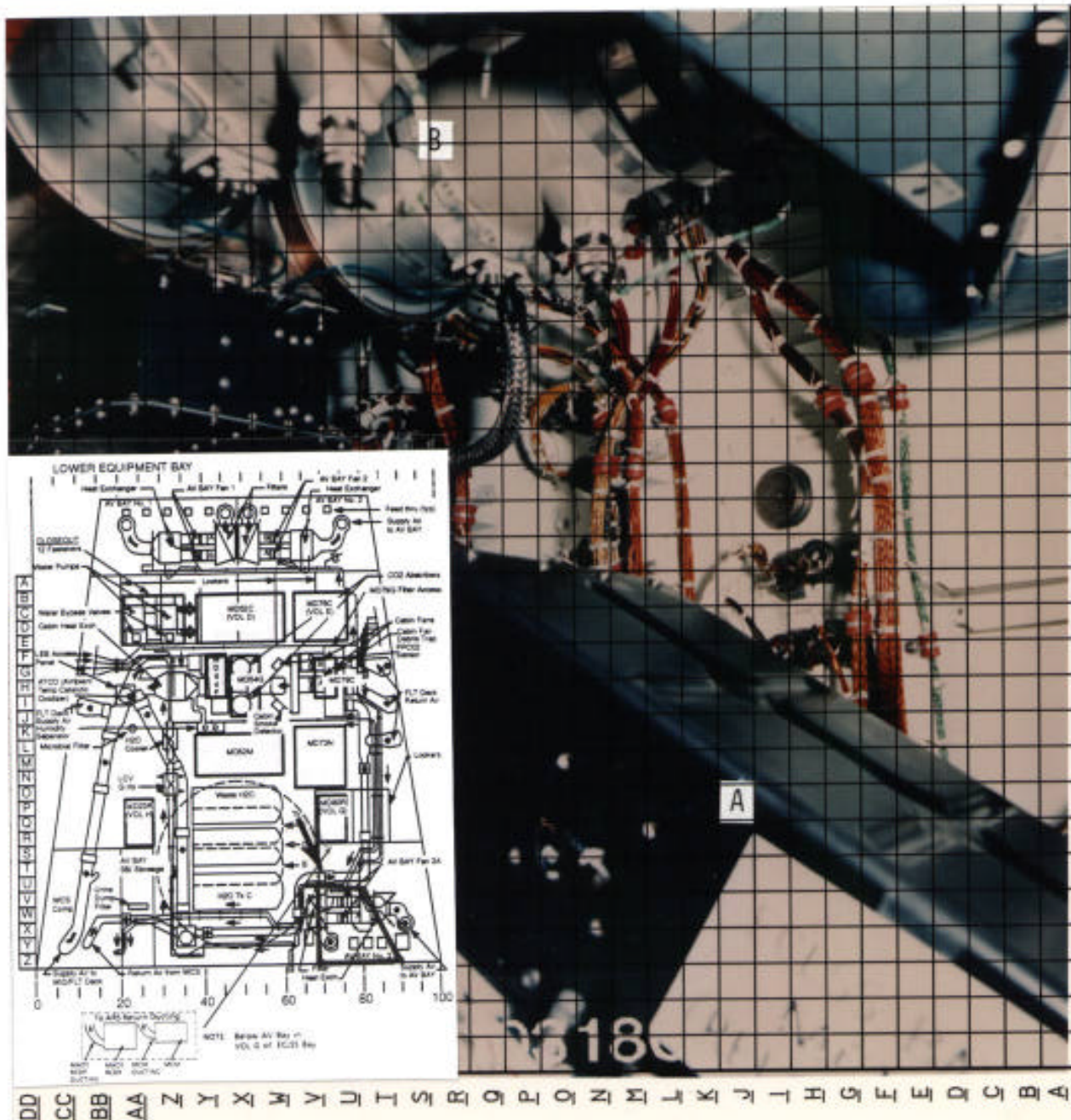
WIRING, RECORDER (RELOCATION POSITION)



A - MADS EQUIP - BEHIND
H2O TANKS VOL G

OV105

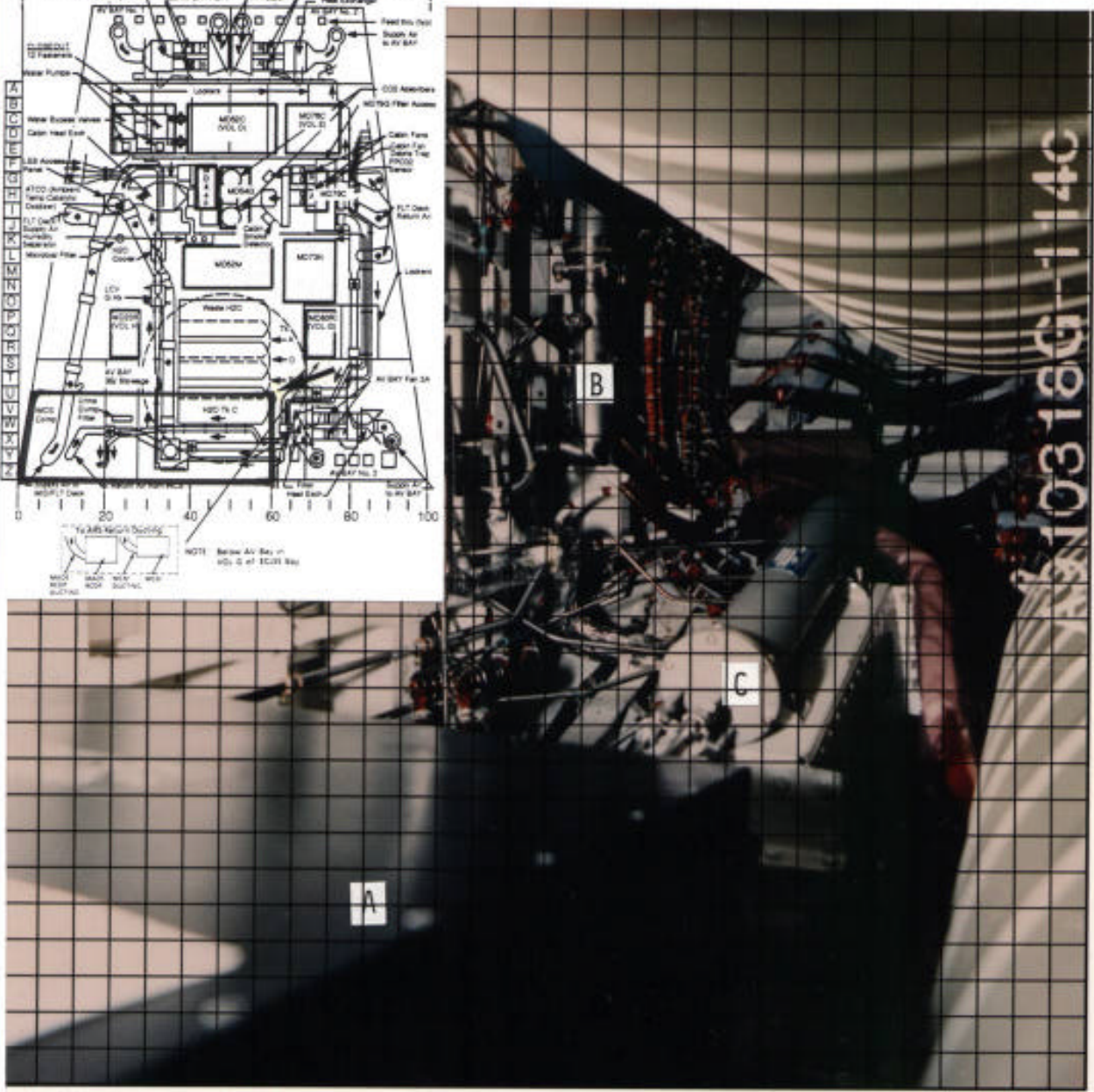
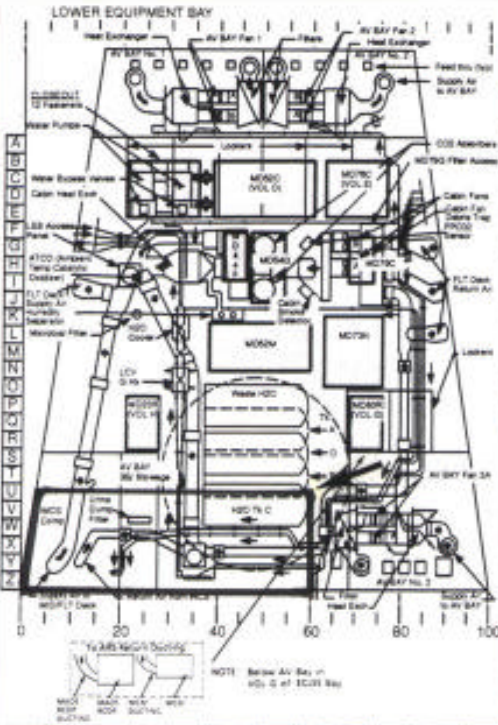
WIRING, BAY 3A HEAT EXCHANGER



A - MADS
 B - AV BAY 3A FANS

OV105

WIRING, L/H POT TANKS

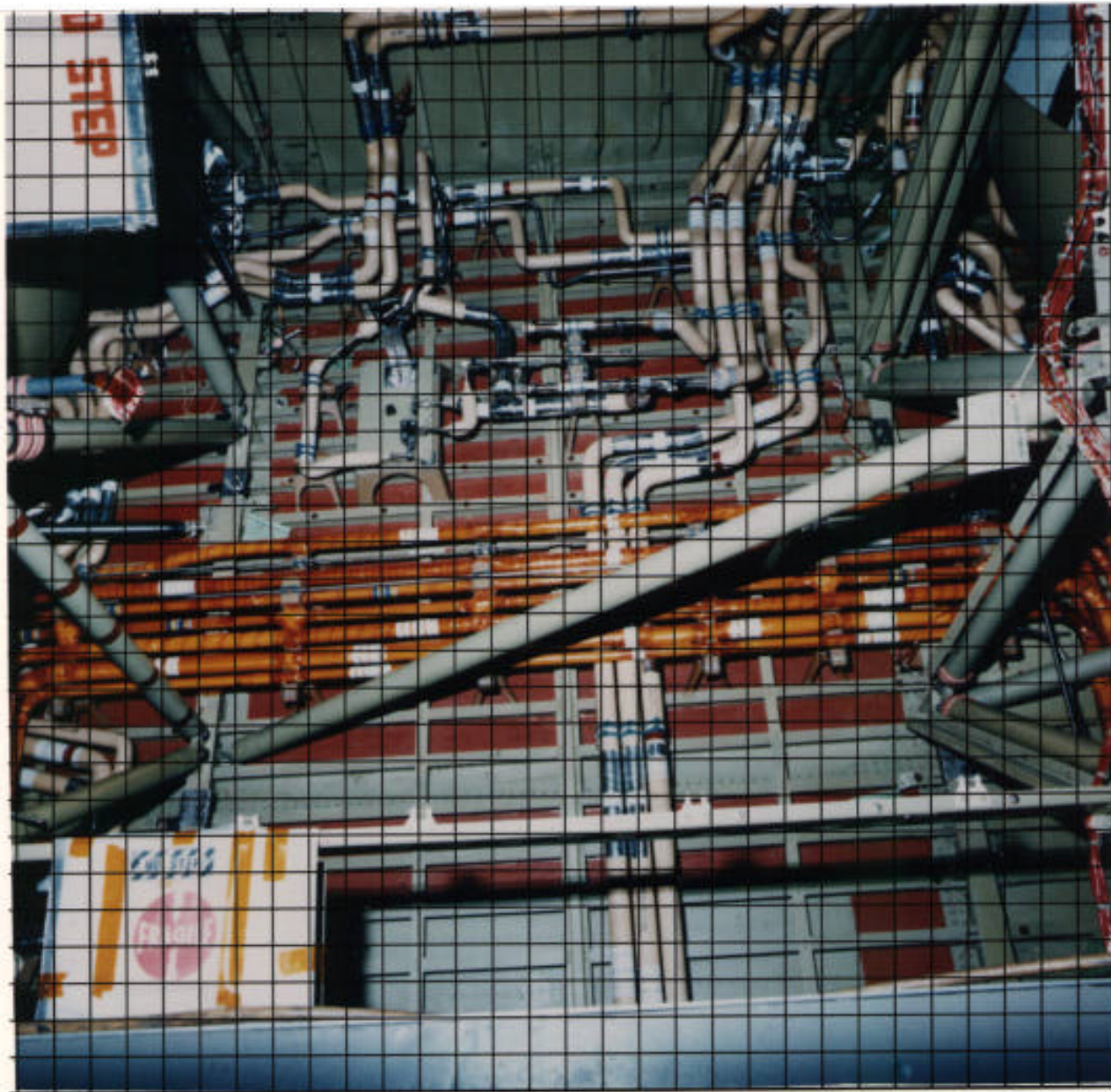


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

- A - MADS
- B - VACUUM VENT
- C - HYD SEPARATOR FOR H2O

OV105

MID FUSELAGE, BAY 7 L/H LOWER

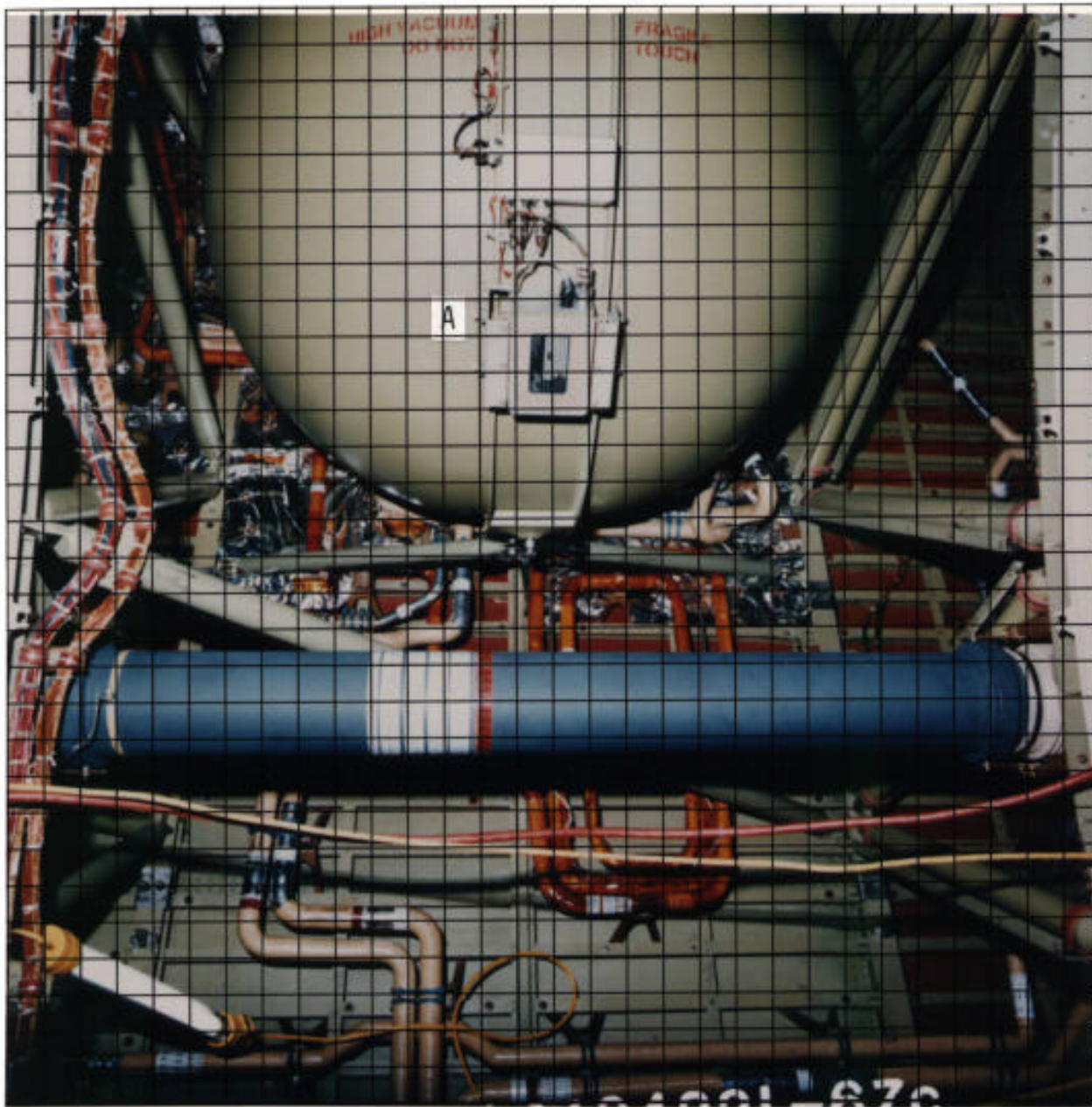


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

H2O, FREON, O2, NLG HYD

OV105

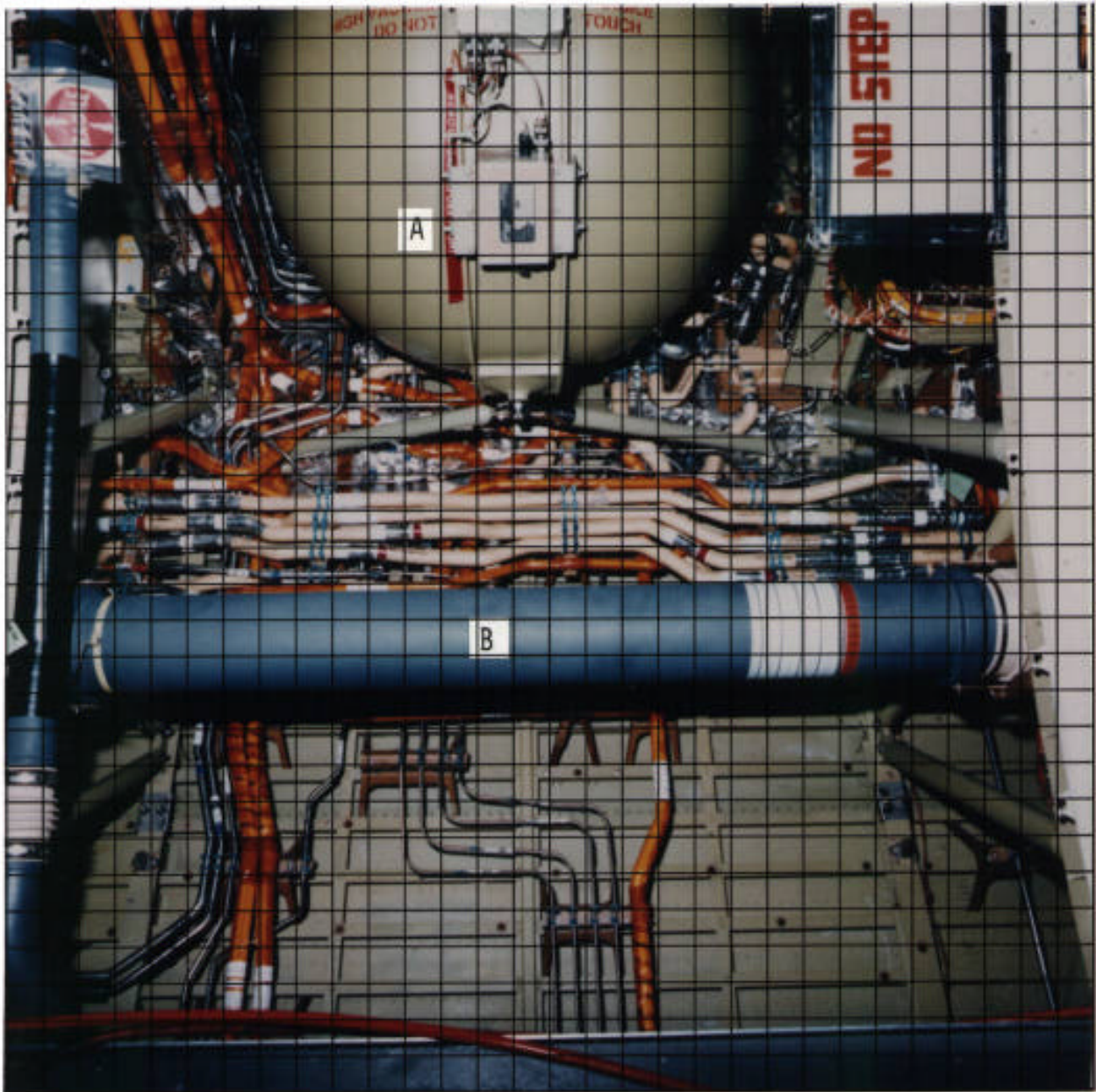
MID FUSELAGE, BAY 6 R/H LOWER



A - LH2 TANK #4

OV105

MID FUSELAGE, BAY 3 R/H LOWER



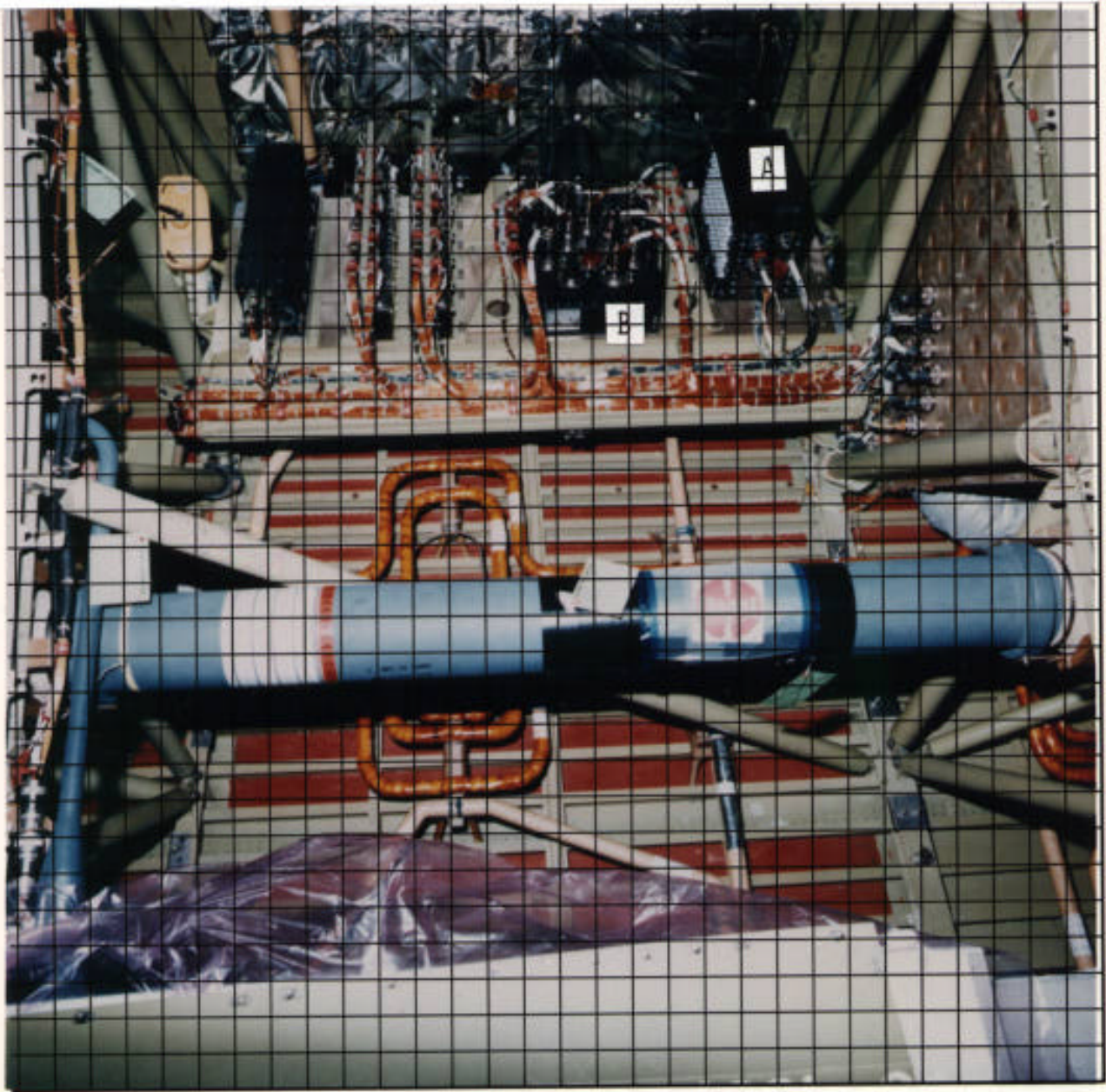
DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

A - L02 TANK #2
B - PURGE LINES

OV105

MID FUSELAGE, BAY 8 R/H LOWER



DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

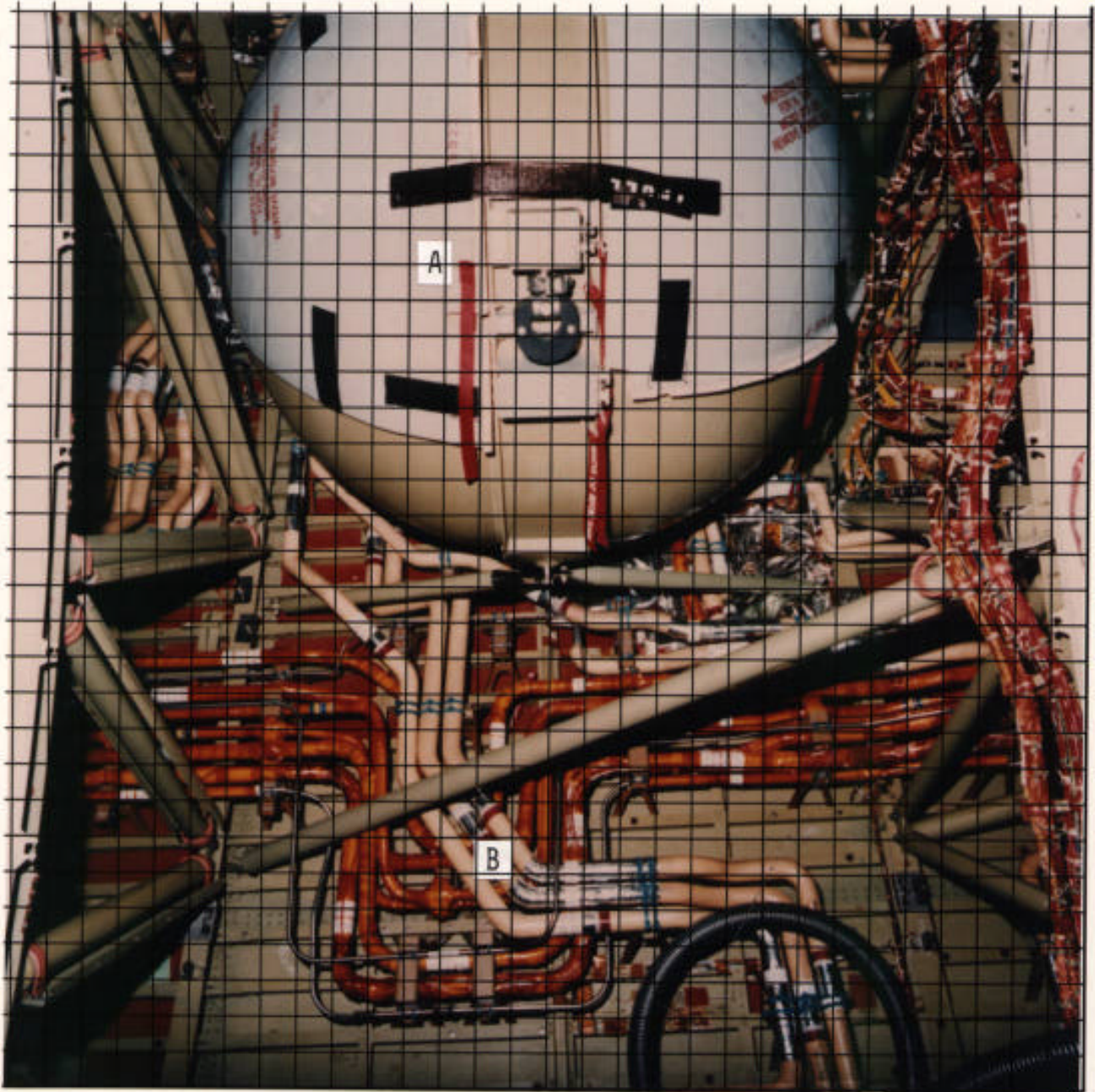
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

- A - MADS PWR PCM DIST ASSEMBLY
- B - MADS PWR PCM MULTIPLEXER

OV105

MID FUSELAGE, BAY 6 L/H LOWER

(UNIQUE FOR EDO MISSIONS)

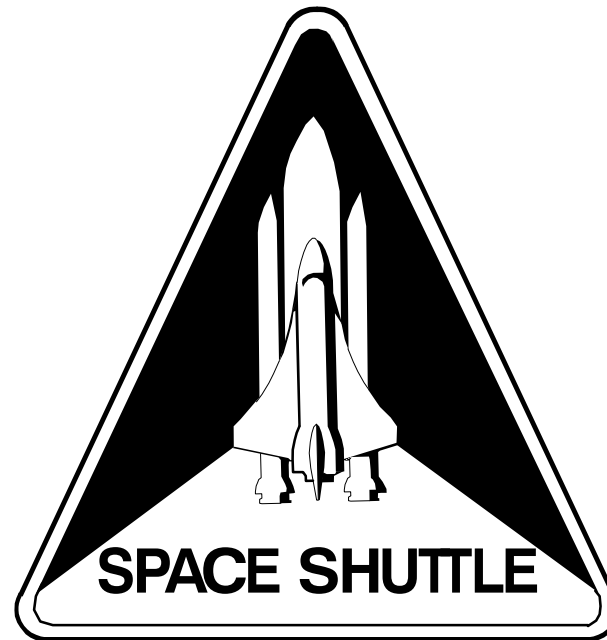


DD CC BB AA Z Y X W V U T S R Q P O N M L K J I H G F E D C B A

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

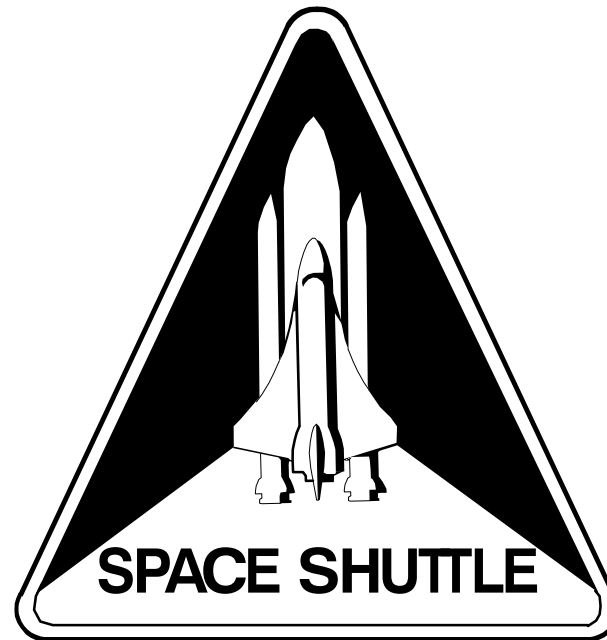
A - LH2 TANK #1
B - PALLET LINES

OV105



**SYSTEMS
DATA BOOK**

**STS
ALL**



**SYSTEMS
DATA BOOK**

**STS
108**